

## Program

## Room S1

### CO-LEARNING HOUSE I C102

#### Frontiers of Artificial Photosynthesis JST- PRESTO Project "Chemical Conversion of Light Energy"

Friday, March 22, AM

(9 : 40 ~ 12 : 10)

- 1S1-02<sup>#</sup>** Watching Chemical Conversion of Light Energy with Picosecond Time-resolved X-ray Structural Analysis (KEK) ADACHI, Shin-ichi (09:40~10:10)
- 1S1-03<sup>#</sup>** Development of Large Photofunctional Porphyrin Arrays (NAIST) ARATANI, Naoki (10:10~10:40)
- 1S1-04<sup>#</sup>** Development of energy conversion materials with hierarchical structure using two-dimensional nanocrystals (Kyushu Univ.) IDA, Shintaro (10:40~11:10)
- 1S1-05<sup>#</sup>** Development of highly-active oxygen evolving catalysts toward visible-light-induced water splitting (IMS) MASAOKA, Shigeyuki (11:10~11:40)
- 1S1-06<sup>#</sup>** Development of a molecular catalyst for water oxidation toward a hydrogen-producing solar cell (Niigata Univ.) YAGI, Masayuki (11:40~12:10)

Friday, March 22, PM

(13 : 20 ~ 17 : 55)

- 1S1-07<sup>#</sup> Special Lecture** Finding the Way to Solar Fuels (Univ. of North Carolina at Chapel Hill, Arey Distinguished Prof.) Thomas J. Meyer (13:20~14:10)
- 1S1-08<sup>#</sup>** Novel Ruthenium-Peptide Complexes Designed based on 'Peptide Origami' (Kitasato Univ.) ISHIDA, Hitoshi (14:10~14:40)
- 1S1-09<sup>#</sup>** Development of Photocatalytic Molecular Transformation System Driven by Visible-Light Energy (Tokyo Metropolitan Univ.) INAGAKI, Akiko (14:40~15:10)
- 1S1-10<sup>#</sup>** Bis(phosphaethenyl)pyridine Iron Complexes; Electronic Structures and Reactivity towards CO<sub>2</sub> (Kyoto Univ.) NAKAJIMA, Yumiko (15:25~15:55)
- 1S1-11<sup>#</sup>** Photo-induced electron transfer and (Kyoto Univ.) ISHIKITA, Hiroshi (15:55~16:25)
- 1S1-12<sup>#</sup>** proton transfer reactions in proteins (Max Planck Institute for Terrestrial Microbiology) SHIMA, Seigo (16:25~16:55)
- 1S1-13<sup>#</sup>** Protein engineering to create algae with high formate productivity (Shinshu Univ.) IHARA, Masaki (16:55~17:25)
- 1S1-14<sup>#</sup>** Organization and Functional Analysis of Supramolecular Assembly of Photosynthetic Antenna Proteins (Nagoya Inst. of Tech.) DEWA, Takehisa (17:25~17:55)

#### Chemical conversion of solar energy by artificial photosynthesis

Saturday, March 23, PM

(13 : 30 ~ 13 : 40)

- 2S1-01 Special Lecture** Introduction (Tokyo Metropolitan University) Inoue, Haruo (13:30~13:40)

Chair: KUDO, Akihiko (13 : 40 ~ 14 : 30)

- 2S1-02 Special Lecture** Mechanism of water-splitting and oxygen-evolving reaction in photosynthesis (The OCU Advanced Research Institute for Natural Science and Technology (OCARINA) / Graduated School of Science, Osaka City University) Kamiya, Nobuo (13:40~14:05)
- 2S1-03 Special Lecture** Construction of Artificial Light-Harvesting Systems (Ritsumeikan Univ.) Tamiaki, Hitoshi (14:05~14:30)

Chair: Tamiaki, Hitoshi (14 : 30 ~ 15 : 20)

- 2S1-04 Special Lecture** Keys for oxidative activation of water (Tokyo Metropolitan University) Inoue, Haruo (14:30~14:55)
- 2S1-05 Special Lecture** Highly efficient photocatalysts for CO<sub>2</sub> reduction (Tokyo Tech) Ishitani, Osamu (14:55~15:20)

Chair: Ishitani, Osamu (15 : 30 ~ 16 : 20)

- 2S1-06 Special Lecture** Photocatalytic hydrogen evolution from water (Tokyo University of Science, Faculty of Science) Kudo, Akihiko (15:30~15:55)
- 2S1-07 Special Lecture** Development of visible light responsive semiconductor photocatalysts (School of Engineering, The University of Tokyo) Domen, Kazunari (15:55~16:20)

Chair: Inoue, Haruo (16 : 20 ~ 17 : 30)

- 2S1-08 Special Lecture** How to make good use of near infrared light energy? (RIES, Hokkaido Univ.) Misawa, Hiroaki (16:20~16:45)
- 2S1-09 Special Lecture** Road Map of artificial photosynthesis to Future Industry (Mitsubishi Chemical Science and Technology Research Center Inc.) Setoyama, Tohru (16:45~17:10)
- 2S1-10 Special Lecture** Artificial Photosynthesis: Perspective from Science and Technology Policy and Scientists (School of Engineering, University of Tokyo) Hashimoto, Kazuhito (17:10~17:30)

## Room S2

### CO-LEARNING HOUSE I C103

#### A New Paradigm for "MONODUKURI": Initiated with Innovative Synthetic Transformations

Friday, March 22, AM

(9 : 30 ~ 9 : 40)

- 1S2-01 Special Program Lecture** Introduction (RIKEN Advanced Science Institute) Tanaka, Katsunori (09:30~09:40)

Chair: Tanaka, Katsunori (9 : 40 ~ 10 : 30)

- 1S2-02 Special Program Lecture** Design of Advanced Soft Supramolecular Catalysts (Grad. Sch. of Eng., Nagoya Univ.) Ishihara, Kazuaki (09:40~10:05)
- 1S2-03 Special Program Lecture** Protein Organic Chemistry under Cellular Conditions (Kyoto University) Hamachi, Itaru (10:05~10:30)

Chair: Namba, Kosuke (10 : 30 ~ 11 : 15)

- 1S2-04 Special Program Lecture** Development of Innovative Functional Materials based on Novel Organic Reactions (The Univ. of Tokyo) Tsuji, Hayato (10:30~10:50)
- 1S2-05 Special Program Lecture** Synthesis of biologically active compounds based on the organocatalyst (Tohoku University, Graduate School of Science) Hayashi, Yujiro (10:50~11:15)

Chair: Oishi, Shinya (11 : 15 ~ 12 : 05)

- 1S2-06 Special Program Lecture** Organic Synthesis toward Drug Discovery and Manufacturing (Shionogi & Co., CMC Development Laboratories) Konoike, Toshiro (11:15~11:40)
- 1S2-07 Special Program Lecture** Single-Crystal-to-Single-Crystal Transformation of Gold(I)Isocyanide Complexes through Mechanical Triggering (Graduate School of Engineering, Hokkaido Univ.) Ito, Hajime (11:40~12:05)

Chair: Igawa, Kazunobu (12 : 05 ~ 12 : 30)

- 1S2-08 Special Program Lecture** Connect Molecules, Create Value: Toward Transformative Molecules (Department of Chemistry, Graduate School of Science, Nagoya University) Itami, Kenichiro (12:05~12:30)

#### Frontier of Radical Chemistry

Friday, March 22, PM

(13 : 30 ~ 13 : 35)

- 1S2-09 Special Program Lecture** Opening Remarks (Osaka Prefecture University) Ryu, Ilhyong (13:30~13:35)

Chair: Yorimitsu, Hideki (13 : 35 ~ 14 : 40)

- 1S2-10 Special Program Lecture** Transition Metal-Free Cross-Coupling (Graduate School of Science, Kyoto University) Shirakawa, Eiji (13:35~14:00)
- 1S2-11 Special Program Lecture** Synthesis of Heterocycles Using Remote C-H Abstraction by Nitrogen or Oxygen Radicals (Nanyang

Technological University) Chiba, Shunsuke (14:00~14:25)  
**1S2-12 Special Program Lecture** Development of Catalytic Functionalization of Nitrogen-Containing Organic Compounds via Photoinduced Electron (The University of Tokyo) Miyake, Yoshihiro (14:25~14:40)

Chair: Yamago, Shigeru (14 : 40~15 : 35)

**1S2-13 Special Program Lecture** Radical-Based Approach for Synthesis of Complex Natural Products (School of Pharmaceutical Sciences, The Univ. of Tokyo) Inoue, Masayuki (14:40~15:05)

**1S2-14 Special Program Lecture** Stereoselective alkyl radical addition using chiral Lewis bases as organocatalysts (Ochanomizu Univ.) Yajima, Tomoko (15:05~15:20)

**1S2-15 Special Program Lecture** Thermal and Photochemical Living Radical Polymerizations Using Organic Catalysts (Inst. Chem. Res., Kyoto Univ.) Goto, Atsushi (15:20~15:35)

Chair: Ogawa, Akiya (15 : 35~16 : 40)

**1S2-16 Special Program Lecture** Elucidating the edge state of graphene nanoribbon at the molecular level (Graduate School of Science, Osaka University) Kubo, Takashi (15:35~16:00)

**1S2-17 Special Program Lecture** In-situ Formation of Radical Polymer/Conjugated Polymer Composites for Rapid Charge-Storage Devices (WIAS, Waseda Univ.) Suga, Takeo (16:00~16:15)

**1S2-18 Special Program Lecture** Si-, Ge-, and Sn-Centered Free Radicals: From Phantom Species to Grams-Order Scale Materials (Department of Chemistry, Graduate School of Pure and Applied Sciences, University of Tsukuba) Sekiguchi, Akira (16:15~16:40)

## Special Lecture

Saturday, March 23, PM

Chair: XU, Qiang (14 : 00~14 : 50)

**2S2-01# Special Lecture** From Mononuclear, Coordination Polymers to Metal Clusters: the Importance of the Metal-Ligand Synergism (CNRS; Univ. Strasbourg) Pierre BRAUNSTEIN (14:00~14:50)

## Provision of Use Opportunity and High Technical Assistance

Monday, March 25, AM

Chair: NODA, Tetsuji (9 : 30 ~10 : 35)

**4S2-01 Special Program Lecture** Introduction (MEXT) (09:30~09:40)

**4S2-02 Special Program Lecture** Introduction of Advanced Characterization Nanotechnology Platform and the Advanced Nanocharacterization Facilities (Hokkaido Univ., Tohoku Univ., NIMS, AIST, Univ. Tokyo, Nagoya Univ., Kyoto Univ., Osaka Univ., JAEA, Kyushu Univ.) Fujita, Daisuke (09:40~10:15)

**4S2-03 Special Program Lecture** Introduction of advanced transmission electron microscope facilities provided by advanced characterization nanotechnology (Hokkaido Univ., Tohoku Univ., NIMS, AIST, Univ. Tokyo, Nagoya Univ., Kyoto Univ., Osaka Univ., JAEA, Kyushu Univ.) Takeguchi, Masaki (10:15~10:35)

Chair: FUJITA, Daisuke (10 : 35~11 : 30)

**4S2-04 Special Program Lecture** Nano- Platform for micro fabrication (Hokkaido Univ., Tohoku Univ., NIMS, AIST, Tsukuba Univ., Univ. of Tokyo, Tokyo Institute of Technology Univ., Nagoya Univ., Kyoto Univ., Osaka Univ., Hiroshima Univ., Kagawa Univ., Yamaguchi Univ., FAIS) KOIDE, Yasuo; Kotera, Hidetoshi (10:35~10:50)

**4S2-05 Special Program Lecture** Example of support program in Tokyo Tech nano-fab platform (Tokyo Tech) Miyamoto, Yasuyuki (10:50~11:03)

**4S2-06 Special Program Lecture** Introduction of Support on Nanofabrication Platform at Hiroshima University (Research Institute for Nanodevice and Bio Systems, Hiroshima Univ.) Yokoyama, Shin (11:03~11:16)

**4S2-07 Special Program Lecture** Hybrid "Monozukuri" based on nanofabrication using silicon and other materials (Toyota Technological Institute) Sasaki, Minoru; Kajiwara, Ken (11:16~11:30)

Chair: KOIDE, Yasuo (11 : 30~12 : 25)

**4S2-08 Special Program Lecture** Introduction to Nanotechnology Platform of Molecule & Material Synthesis (Chitose Inst. Sci. Technol.; Tohoku Univ.; Nat. Inst. Mat. Sci.; Shinshu Univ.; Jpn. Adv. Inst. Sci. Technol.; Nagoya Univ.; Nagata Inst. Technol.; Inst. Mol. Sci.; Osaka Univ.; Nara Adv. Inst. Sci. Technol.; Kyushu Univ.) Yokoyama, Toshihiko (11:30~11:37)

**4S2-09 Special Program Lecture** Introduction to the Hokkaido Bio- and Material Innovation Programm (Chitose Inst. Sci. Tech.) Olaf, Karthaus (11:37~11:49)

**4S2-10 Special Program Lecture** Introduction of Nanotechnology Open Facilities in Osaka University (ISIR, Osaka Univ.) HIGUCHI, Koji;

KITAJIMA, Akira; TANAKA, Hidekazu (11:49~12:01)

**4S2-11 Special Program Lecture** NAIST-Nanotechnology Platform Program (Nara Inst. Sci Technol., Grad. Schol. Mater. Sci) Kawai, Tsuyoshi (12:01~12:13)

**4S2-12 Special Program Lecture** Activity Plan of Kyushu University in Nanotechnology Platform Project, MEXT (Kyushu University) Nakashima, Naotoshi (12:13~12:25)

Chair: YOKOYAMA, Toshihiko (12 : 25~12 : 30)

**4S2-13 Special Program Lecture** Outline of Nanotechnology Platform Center (NIMS) Noda, Tetsuji (12:25~12:30)

## Chemical approach for development of therapeutic/diagnostic agents and medical chemistry

Monday, March 25, PM

(13 : 30~13 : 35)

**4S2-14 Special Program Lecture** Introduction (Frontier Research Center, Tokyo Institute of Technology) Ogura, Shun-ichiro (13:30~13:35)

Chair: OKURA, Ichiro (13 : 35~14 : 35)

**4S2-15 Special Program Lecture** Development of the photosensitizers for the advanced phototherapy based on the medicine-engineering collaboration (Nara Institute of Science and Technology) Yano, Shigenobu (13:35~14:05)

**4S2-16 Special Program Lecture** A near-infrared photodynamic therapy using lanthanide nanoparticles and 5-aminolevulinic acid (Tokyo Institute of Technology) Yuasa, Hideya (14:05~14:35)

Chair: NANGO, Mamoru (14 : 35~15 : 30)

**4S2-17 Special Program Lecture** Development of fluorescence and photosensitizing probes based on intramolecular spirocyclization and their application to cancer medicine (Graduate School of Medicine, The University of Tokyo; Basic Research Program, JST) Urano, Yasuteru (14:35~15:05)

**4S2-18 Special Program Lecture** Potential cancer diagnosis via porphyrin determination following administration of 5-aminolevulinic acid (ALA) (SBI Pharmaceuticals Co., Ltd.) Ishizuka, Masahiro; Ogura, Shun-ichiro; Inoue, Kenji (15:05~15:30)

Chair: YAMAGUCHI, Motoo (15 : 30~16 : 30)

**4S2-19 Special Program Lecture** Medicinal chemistry of antineoplastic agent based on the embryonated chicken egg as an engineering experimental animal (Institute of Technology and Science, the University of Tokushima) Uto, Yoshihiro; Endo, Yoshio; Kubo, Kentaro; Inui, Toshio; Hori, Hitoshi (15:30~16:00)

**4S2-20 Special Program Lecture** Development of Radioprotectors Based on the Structures of Natural Antioxidants (National Institute of Radiological Sciences) Nakanishi, Ikuo (16:00~16:30)

## Room S3

CO-LEARNING HOUSE I C107

## A new trend in generation of biomedicines

Friday, March 22, AM

(9 : 30 ~9 : 35)

**1S3-01 Special Program Lecture** Explanation of Symposium Aim (Graduate School of Science, Osaka Prefecture University) Fujii, Ikuo (09:30~09:35)

Chair: Tsumoto, Kouhei (9 : 35 ~10 : 15)

**1S3-02 Special Program Lecture** Novel antibody engineering technology for therapeutics (Chugai Pharmaceutical Co., Ltd. Research Division) Hattori, Kunihiko (09:35~10:15)

Chair: Miraha, Hisakazu (10 : 15~10 : 55)

**1S3-03 Special Program Lecture** Biologicals and their expression platforms (The Chemo-Sero-Therapeutic Research Institute) Nakashima, Toshihiro (10:15~10:55)

Chair: Tsumuraya, Takeshi (11 : 05~11 : 45)

**1S3-04 Special Program Lecture** Affinity Phase for Antibody Drug Purification (DAISO CO., LTD.) OHTAKA, Seiji; YAMAGUCHI, Noboru (11:05~11:45)

Chair: Fukase, Kouichi (11 : 45~12 : 25)

**1S3-05 Special Program Lecture** Protein Science of Camelid Single Domain VHH Antibody (AIST) Hagiwara, Yoshihisa (11:45~12:25)

(12 : 25~12 : 30)

**1S3-06 Special Program Lecture** Overview (DAISO CO., LTC.)  
Suzuki, Toshio (12:25~12:30)

## Room S4

### CO-LEARNING HOUSE I C108

### Marriage between photochemistry and photobiology

Friday, March 22, AM

**1S4-01 Special Program Lecture** Introduction (Department of Chemistry and Chemicalbiology, Gunma University) Okutsu, Tetsuo (09:30~09:40)

Chair: Masuda, Shinji (9 : 40 ~10 : 55)

**1S4-02 Special Program Lecture** The Chemistry of Vision: Turning Light into Sight (Nagoya Institute of Technology) Kandori, Hideki (09:40~10:05)

**1S4-03 Special Program Lecture** Photochemistry and Nano-level Structure (Tokyo Metropolitan University) Takagi, Shinsuke (10:05~10:30)

**1S4-04 Special Program Lecture** Photoregulation of gene expression (RIKEN, PRESTO JST) Ogasawara, Shinzi (10:30~10:55)

Chair: Takagi, Shinsuke (11 : 05~12 : 30)

**1S4-05 Special Program Lecture** Photochemically-induced Crystallization of Protein (Department of Chemistry and Chemicalbiology, Gunma University) Okutsu, Tetsuo (11:05~11:30)

**1S4-06 Special Program Lecture** Artificial control of transcription by photoreceptors (Center for Biol. Res. & Inform., Tokyo Inst. Tech.; JST PRESTO) Masuda, Shinji (11:30~11:55)

**1S4-07 Special Program Lecture** Precise manipulation of the motility of living cells by light (Nagoya University, Institute for molecular science) Sudo, Yuki (11:55~12:20)

**1S4-08 Special Program Lecture** Future Prospects (Nagoya Institute of Technology) Kandori, Hideki (12:20~12:30)

### Element Strategy: Catalysts for Efficient Chemical Transformations

Friday, March 22, PM

Chair: Nozaki, Kyoko (13 : 35~14 : 45)

**1S4-09 Special Lecture** From the standpoint of homogeneous and heterogeneous catalysis (Catalysis Research Center) Fukuoka, Atsushi (13:35~14:10)

**1S4-10 Special Lecture** Homogeneous Catalysis of Iron~Catalyst Design to Overcome the Difficulty in Studies on Paramagnetic Catalyst Species~ (Institute for Materials Chemistry and Engineering) Nagashima, Hideo (14:10~14:45)

Chair: Kitagawa, Hiroshi (14 : 45~15 : 55)

**1S4-11 Special Lecture** Unique catalysis of metal complexes formed onto the pore surface of mesoporous organosilica (Toyota Central R&D Labs., Inc.) Inagaki, Shinji (14:45~15:20)

**1S4-12 Special Lecture** The Third Catalyst: Organocatalysts (Graduate School of Science, Tohoku University) Terada, Masahiro (15:20~15:55)

Chair: TANAKA, Tsunehiro (15 : 55~17 : 05)

**1S4-13 Special Lecture** Low environmental impact processes by heterogeneous acid catalysts (Materials and Structures Laboratory, Tokyo Institute of Technology) Hara, Michikazu (15:55~16:30)

**1S4-14 Special Lecture** Use of Carbon-Hydrogen Bonds in Organic Synthesis (Osaka University) Chatani, Naoto (16:30~17:05)

### Molecular Design and Molecular Technology From Molecular Science to Molecular Technology

Sunday, March 24, PM

Chair: KATO, Takashi (13 : 30~15 : 30)

**3S4-01 Special Lecture** Molecular Technology for the Power of the Nation (Nara Institute of Science and Technology) Murai, Shinji (13:30~14:00)

**3S4-02 Special Lecture** National Pride and Molecular Technology (Chubu University, Molecular Catalysis Research Center) Yamamoto, Hisashi (14:00~14:30)

**3S4-03 Special Lecture** Molecular Science and Technology in Organic

Electronic Research (The Univ. of Tokyo) Nakamura, Eiichi (14:30~15:00)

**3S4-04 Special Lecture** Molecular Technology for Life Chemistry and Engineering (Department of Synthetic Chemistry & Biological Chemistry, Kyoto University) Hamachi, Itaru (15:00~15:30)

Chair: Kikuchi, Hirotsugu (15 : 50~17 : 20)

**3S4-05 Special Lecture** Block copolymer nano-lithography and molecular engineering (Hitachi Research Laboratory, Hitachi Ltd. Department of Organic and Polymeric Materials, Tokyo Institute of Technology) Yoshida, Hiroshi; Hayakawa, Teruaki (15:50~16:20)

**3S4-06 Special Lecture** Molecular Technology for Highly-functional Materials (FRONTIER CORE-TECHNOLOGY LABORATORIES, R&D MANAGEMENT HEADQUARTERS, FUJIFILM Corporation) Ito, Tadashi (16:20~16:50)

**3S4-07 Special Lecture** Structural Control and Functionalization of Materials Based on Molecular Technology (Sch. Eng., The Univ. of Tokyo) Kato, Takashi (16:50~17:20)

## Room S5

### CO-LEARNING HOUSE I C109

### Cutting-edge interdisciplinary research on nucleic acid molecules to activate cell functions

Friday, March 22, AM

Chair: Sando, Shinsuke (9 : 30 ~10 : 40)

**1S5-01 Special Program Lecture** Introduction and new reactions for detection of nucleic acid modification (RCAST, The University of Tokyo) Okamoto, Akimitsu (09:30~09:40)

**1S5-02 Special Program Lecture** Detection of endogenous RNA at single-molecule level in live cells (RIKEN, ASI) PACK, Chan-Gi; SAKO, Yasushi; OKAMOTO, Akimitsu (09:40~10:00)

**1S5-03 Special Program Lecture** The key role of Nucleic Acid Chemistry on practical diagnostic tests (Toppan Printing Co., Ltd.) Yamane, Akio (10:00~10:20)

**1S5-04# Special Program Lecture** Imaging RNA in Space and Time with Fluorescent Oligonucleotide Probes (iCeMS, Kyoto Univ.) WANG, Dan Ohtan; HIRANO, Asuka; OOMOTO, Ikumi; UMESHIMA, Hiroki; KENGAKU, Mineko; SHIMOGORI, Tomomi; OKAMOTO, Akimitsu (10:20~10:40)

Chair: Okamoto, Akimitsu (10 : 40~12 : 30)

**1S5-05 Special Program Lecture** Cellular Function Control and Expansion by Cell Surface-Anchored Aptamers (INAMORI Frontier Research Center, Kyushu University) Sando, Shinsuke (10:40~11:00)

**1S5-06 Special Program Lecture** DNA methylation dynamics in mammals (RIKEN RCI) Ito, Shinsuke (11:00~11:20)

**1S5-07 Special Program Lecture** RNA epigenetics and biological processes (Dept of Chem and Biotech, Univ of Tokyo) Suzuki, Tsutomu (11:20~11:50)

**1S5-08 Special Program Lecture** Epigenetic modification and gene regulation in development and reproduction (Med. Inst. Bioreg., Kyushu Univ.) Sasaki, Hiroyuki (11:50~12:30)

### Advanced Nanospace for Novel Materials and Functions

Friday, March 22, PM

Chair: Takeuchi, Masayuki (13 : 30~14 : 30)

**1S5-09 Special Program Lecture** opening remarks (Tokyo Inst. of Tech., Chem. Res. Lab.) Yoshizawa, Michito (13:30~13:33)

**1S5-10 Special Program Lecture** Synthesis of functional inorganic nanoporous materials (NIMS-MANA · JST) Yamauchi, Yusuke (13:33~13:53)

**1S5-11 Special Program Lecture** Development of Chemical Motors Based on Metal-Organic Frameworks (Graduate School of Engineering, Kyoto Univ.) Uemura, Takashi (13:53~14:10)

**1S5-12 Special Program Lecture** Designable Functionalization of the Nanospace of Complexes with Biomolecules (School of Engineering, The University of Tokyo; CREST) Sato, Sota; Fujita, Makoto (14:10~14:30)

Chair: NEGISHI, Yuichi (14 : 31~15 : 28)

**1S5-13 Special Program Lecture** Construction and molecular recognition of hybrid supramolecular nano-capsule (Shizuoka University) Yamanaka, Masamichi (14:31~14:51)

**1S5-14 Special Program Lecture** Photofunctional Molecular Capsules with Large Aromatic Rings (Tokyo Inst. of Tech., Chem. Res. Lab.) Yoshizawa, Michito (14:51~15:08)

**1S5-15 Special Program Lecture** Fine template synthesis of subnanometre metal particles for catalysis application (Chemical Resources Laboratory, Tokyo Institute of Technology) Imaoka, Takane; YAMAMOTO, Kimihisa (15:08~15:28)

Chair: Matsuo, Yutaka (15 : 30~16 : 30)

**1S5-16 Special Program Lecture** Transition-Metal-Catalyzed Reactions Employing Periphery-Functionalized Ligands (Grad. Sch. Eng., Kyoto Univ.) Fujihara, Tetsuaki (15:30~15:50)

**1S5-17 Special Program Lecture** Nanospace formed by viral peptides (Graduate School of Eng., Tottori University) Matsuura, Kazunori (15:50~16:10)

**1S5-18 Special Program Lecture** Nano-reactors Designed by Protein Assembly (Tokyo Tech. Graduate School of Biosci. and Biotech.) Ueno, Takafumi (16:10~16:27)

**1S5-19 Special Program Lecture** Concluding Remarks (NIMS) Higuchi, Masayoshi (16:27~16:30)

## Room S6

CO-LEARNING HOUSE I C206

### The Prospects of Photofunctional Chemistry -from Devices to Biology-

Friday, March 22, PM

(13 : 30~13 : 35)

**1S6-01 Special Program Lecture** opening remark (Hokkaido University) Kato, Masako (13:30~13:35)

Chair: Kato, Masako (13 : 35~14 : 25)

**1S6-02 Special Program Lecture** Development of photofunctional materials based on porphyrins (Institute of Industrial Science, The University of Tokyo) Ishii, Kazuyuki (13:35~13:55)

**1S6-03 Special Program Lecture** Development of photo-induced phase transition materials (School of Science, Univ. of Tokyo) Ohkoshi, Shin-ichi (13:55~14:25)

Chair: Hasegawa, Yasuchika (14 : 25~15 : 25)

**1S6-04 Special Program Lecture** High efficiency thermally activated delayed fluorescence and their device application (Kyushu University) Adachi, Chihaya (14:25~14:55)

**1S6-05 Special Program Lecture** Theoretical calculation on nonradiative processes of phosphorescent states in transition metal complexes (Univ. of Toyama) Nozaki, Koichi (14:55~15:25)

Chair: Ishida, Hitoshi (15 : 25~16 : 30)

**1S6-06 Special Program Lecture** Phosphorescent probes for biological imaging developed by using iridium complexes (Graduate School of Engineering, Gunma University) YOSHIHARA, Toshitada; HOSAKA, Masahiro; TAKEUCHI, Toshihiro; TOBITA, Seiji (15:25~15:55)

**1S6-07 Special Program Lecture** Hybrid-type fluorescent probes for visualizing cell signalling dynamics (Grad. Sch. Med., The Univ. of Tokyo) Hirose, Kenzo (15:55~16:25)

**1S6-08 Special Program Lecture** The Future Prospects of Collaboration between Industry and Academia in Photofunctional Chemistry (Katayama Chemical Industries Co. Ltd.; Kitasato University) ADACHI, Masaki; ISHIDA, Hitoshi (16:25~16:30)

## Room S7

CO-LEARNING HOUSE I C305

### Sustainable Polymers: Their Design, Synthesis, Analysis, and Application

Friday, March 22, PM

(13 : 30~13 : 35)

**1S7-01 Special Program Lecture** Introductory Remarks (Grad. Sch. Eng., Nagoya Univ.) Kamigaito, Masami (13:30~13:35)

Chair: Miyata, Takashi (13 : 35~14 : 25)

**1S7-02 Special Program Lecture** Self-healing and Mechanoresponsive Materials Based on Dynamic Covalent Chemistry (IMCE, Kyushu Univ.) Otsuka, Hideyuki (13:35~14:00)

**1S7-03 Special Program Lecture** Sustainable fabrication of nanoperiodical structures in polymer blends (IIS, Univ. Tokyo) Yoshie, Naoko

(14:00~14:25)

Chair: Kawahara, Seiichi (14 : 25~15 : 40)

**1S7-04 Special Program Lecture** Crystalline Cellulose Nanofibers as Sustainable Polymer Catalysts (Graduate School of Science and Engineering, Tokyo Institute of Technology) Serizawa, Takeshi (14:25~14:50)

**1S7-05 Special Program Lecture** Three-dimensional structural analysis of nano-structures of Sustainable Polymers (JST; IMCE Kyushu University) Jinnai, Hiroshi (14:50~15:15)

**1S7-06 Special Program Lecture** Analysis of fracture and renewal of the interface between hard and soft materials in the material life (NRI, AIST) Morita, Hiroshi (15:15~15:40)

Chair: Kamigaito, Masami (15 : 40~16 : 30)

**1S7-07 Special Program Lecture** Well-defined Polymer Design and Commercialization by Atom Transfer Radical Polymerization (KANEKA CORPORATION; Japan Association for Chemical Innovation) Nakagawa, Yoshiaki (15:40~16:05)

**1S7-08 Special Program Lecture** Polymer Design for Sustainable Polymers Consisting of Thermoreversible Bondings (TORAY) Yamauchi, Koji (16:05~16:30)

### New Paradigm of Electronics

Sunday, March 24, PM

(13 : 30~13 : 40)

**3S7-01 Special Lecture** General Introduction of the Program (Osaka University, Graduate School of Engineering Science) Tobe, Yoshito (13:30~13:40)

Chair: Ogawa, Takaharu (13 : 40~15 : 40)

**3S7-02 Special Lecture** Novel organic light emitting material - fluorescence, phosphorescence and TADF - (Kyushu University) Adachi, Chihaya (13:40~14:20)

**3S7-03 Special Lecture** Local and Intrinsic Charge Carrier Mobility on Conjugated Molecules (Department of Applied Chemistry, Graduate School of Engineering, Osaka University) Seki, Shu (14:20~15:00)

**3S7-04 Special Lecture** Noise-driven neuromorphic computing and its application to nano-scale integrated systems (Graduate School of IST, Hokkaido University) Asai, Tetsuya (15:00~15:40)

Chair: Seki, Shuhei (15 : 50~17 : 10)

**3S7-05 Special Lecture** Control of Joule heat for realizing low power-consumption in molecular devices (ISIR-SANKEN Osaka Univ.) Taniguchi, Masateru (15:50~16:30)

**3S7-06 Special Lecture** Single molecular electronics and their integration (Graduate School of Science, Osaka University) OGAWA, Takuji; TANAKA, Hirofumi; TANAKA, Daisuke; HANDAYANI, Murni; INOSE, Tomoko; TAMAKI, Takashi (16:30~17:10)

## Room S8

CO-LEARNING HOUSE I C306

### Application of Cooperative-Excitation into High-Order Utilization of Photo-energy

Friday, March 22, PM

Chair: Murakoshi, Kei (13 : 30~15 : 05)

**1S8-01 Special Program Lecture** Application of cooperative excitation in photochemistry (Graduate School of Engineering Science, Osaka University) Miyasaka, Hiroshi (13:30~13:50)

**1S8-02 Special Program Lecture** Photo-energy manipulation through cooperative-excitation of antenna-molecule complexed system (Dept. Phys. & Elec., Osaka Pref. Univ.) Ishihara, Hajime (13:50~14:05)

**1S8-03 Special Program Lecture** Molecular Optical Trapping: Approach using Resonant Excitation (Hokkaido Univ.) Tsuboi, Yasuyuki (14:05~14:20)

**1S8-04 Special Program Lecture** Anomalous Optical Properties of  $\pi$ -Conjugated Molecule-Inorganic Cluster System (Institute for Chemical Research, Kyoto Univ. CREST-JST) Teranishi, Toshiharu (14:20~14:35)

**1S8-05 Special Program Lecture** Optical motion control of maglev material (Aoyama Gakuin University; JST-CREST) Abe, Jiro (14:35~14:50)

**1S8-06 Special Program Lecture** Plasmon-assisted photoelectric conversion and artificial photosynthesis in a next generation (RIES, Hokkaido Univ.) Misawa, Hiroaki (14:50~15:05)

Chair: Miyasaka, Hiroshi (15 : 15~16 : 30)

**1S8-07 Special Program Lecture** Development of photo-functional

material and expectation for fundamental research (Mitsubishi Chemical Group Science and Technology Research Center, Inc.) Matsuda, Hirohisa; Shoda, Takayuki (15:15~15:30)

**1S8-08 Special Program Lecture** Theoretical and Computational Approaches to High-Lying Excited States (Graduate School of Engineering Science, Osaka University) Nakano, Masayoshi (15:30~15:45)

**1S8-09 Special Program Lecture** Solution Phase Synthesis of Complex Sulfide Semiconductor Nanoparticles for the Application to Quantum Dot Solar Cells (Nagoya Univ.) Torimoto, Tsukasa (15:45~16:00)

**1S8-10 Special Program Lecture** Development for photoreaction system having extraordinarily high sensitivity (Nara Institut. Sic. Technol.) Kawai, Tsuyoshi (16:00~16:15)

**1S8-11 Special Program Lecture** Summary (Nara Institut. Sic. Technol.) Kawai, Tsuyoshi (16:15~16:30)

**Room SA**  
CO-LEARNING HOUSE II C605

Special Lecture

Saturday, March 23, AM

Chair: YANAGIDA, Shozo (10 : 00~10 : 50)

**2SA-01# Special Lecture** Molecular Modeling in the Mobile Age: In the steps of Roald Hoffmann and John Pople (UC, Irvine,) Warren J. Hehre (10:00~10:50)

**Room SB**  
CO-LEARNING HOUSE II C606

Recent successes in Japanese Process Chemistry

Monday, March 25, AM

Chair: KONOIKE, Toshiro (9 : 30 ~11 : 10)

**4SB-01 Special Program Lecture** Opening Remarks (Shionogi & Co., CMC Development Laboratories) Konoike, Toshiro (09:30~09:35)

**4SB-02 Special Program Lecture** The first ethereal high-performance process solvent, cyclopentyl methyl ether (CPME) originated from Japan (ZEON CORPORATION) Watanabe, Kiyoshi (09:35~10:05)

**4SB-03 Special Program Lecture** Application of Novel Catalytic Aerobic Oxidation Method to High Performance Fine Chemicals (Daicel) Nakano, Tatsuya (10:05~10:40)

**4SB-04 Special Program Lecture** Process development of a new pesticide, flubendiamide (Nihon Nohyaku Co., Ltd.) Tsubata, Kenji (10:40~11:10)

Chair: Akiyama, Takahiko (11 : 15~12 : 30)

**4SB-05 Special Program Lecture** Discovery and Exploitation of AZADO, A Highly Active Organoalyst for Alcohol Oxidation (Graduate School of Pharmaceutical Sciences, Tohoku University) Iwabuchi, Yoshiharu (11:15~11:50)

**4SB-06 Special Program Lecture** New development of innovative production process of carbonic acid ester (ASAHI KASEI CHEMICALS CORPORATION) Miyake, Nobuhisa (11:50~12:25)

**4SB-07 Special Program Lecture** Summary (Gakushuin University, Faculty of Science) Akiyama, Takahiko (12:25~12:30)

Organic Synthesis Aided by Lab Automation Technology

Monday, March 25, PM

(13 : 30~13 : 40)

**4SB-08 Special Program Lecture** Introduction (Tokyo Institute of Technology) Takahashi, Takashi (13:30~13:40)

Chair: FUSE, Shinichiro (13 : 40~14 : 10)

**4SB-09 Special Program Lecture** The Fascination of Flow Micro-reactor Synthesis (Grad. Sch. Eng., Kyoto Univ.) Yoshida, Jun-ichi (13:40~14:10)

Chair: NOKAMI, Toshiki (14 : 10~14 : 40)

**4SB-10 Special Program Lecture** Kinetic reaction control using microreactor: application to stereoselective oligosaccharide synthesis (Graduate School of Science, Osaka University) Fukase, Koichi (14:10~14:40)

Chair: MINAKATA, Satoshi (14 : 40~15 : 10)

**4SB-11 Special Program Lecture** Efficient and Powerful Organic Synthesis Using Continuous Flow Systems (The Univ. of Tokyo) Kobayashi, Shu (14:40~15:10)

Chair: TANAKA, Hiroshi (15 : 10~15 : 35)

**4SB-12 Special Program Lecture** Industrial Applications of Flow Chemistry: Novel heterocycle synthesis and making dangerous chemistry safer (ThalesNano Inc.) Jones, Richard (15:10~15:35)

Chair: TSUKAHARA, Yasunori (15 : 35~16 : 00)

**4SB-13 Special Program Lecture** Scale-up and business development of microwave chemistry (Microwave Chemical Co., Ltd.) Yoshino, Iwao (15:35~16:00)

Chair: Hijikuro, Ichiro (16 : 00~16 : 30)

**4SB-14 Special Program Lecture** Efficient Organic Synthesis Utilizing Laboratory Automation Technology (Tokyo Institute of Technology) Takahashi, Takashi (16:00~16:30)

**Room SC**  
FOREST HOUSE F102

New Polymeric Materials Based on Element-Blocks

Monday, March 25, AM

Chair: NAKA, Kensuke (9 : 30 ~10 : 50)

**4SC-01 Special Program Lecture** Opening Remarks (Kyoto University) Chujo, Yoshiki (09:30~09:35)

**4SC-02 Special Program Lecture** Preparation of Element-Blocks via Surface Modification of Nano-Structures (School of Advanced Science and Engineering) Sugawara, Yoshiyuki (09:35~10:00)

**4SC-03 Special Program Lecture** Synthesis and Polymerization of Element-bridged Bithiophenes (Graduate School of Engineering, Hiroshima University) Oshita, Joji (10:00~10:25)

**4SC-04 Special Program Lecture** Formation of fine surface texture using element-blocks (Institute of Multidisciplinary Research for Advanced Materials, Tohoku University) Watanabe, Akira (10:25~10:50)

Chair: TOMITA, Ikuyoshi (10 : 50~12 : 30)

**4SC-05 Special Program Lecture** Design of Hierarchical structures on Necklace Shaped Dimethylsiloxane Polymers Bearing a Polyhedral Oligomeric Silsesquioxane Cage (Graduate School of Science and Technology, KUMAMOTO UNIVERSITY) Kunitake, Masashi (10:50~11:15)

**4SC-06 Special Program Lecture** Synthesis and formation of higher-order structures of element-block siloxanes (Faculty of Science and Technology, Tokyo University of Science) Gunji, Takahiro (11:15~11:40)

**4SC-07 Special Program Lecture** Mechanical Properties of High Molecular Weight and Highly Regioregular Poly(3-alkyl thiophene) (Graduate School of Engineering, Kobe University) Nishino, Takashi (11:40~12:05)

**4SC-08 Special Program Lecture** Optical properties of element block polymers prepared with metal oxide nanoparticles (Osaka Municipal Technical Research Institute) Matsukawa, Kimihiro (12:05~12:30)

Frontiers of Micro-Nano Analytical Devices -From Basic Research to Commercialization-

Monday, March 25, PM

Chair: HISAMOTO, Hideaki (13 : 30~15 : 15)

**4SC-09 Special Program Lecture** Introduction (Osaka Prefecture Univ., Hokkaido Univ.) Hisamoto, Hideaki; Tokeshi, Manabu (13:30~13:35)

**4SC-10 Special Program Lecture** Development of pL-al biomolecule analytical device utilizing extended nanospace (The University of Tokyo) Mawatari, Kazuma; Shirai, Kentaro; Kitamori, Takehiko (13:35~14:00)

**4SC-11 Special Program Lecture** Control and manipulation of bio-molecules by nanofluidics (Department of Applied Chemistry, Nagoya University) Kaji, Noritada; Baba, Yoshinobu (14:00~14:25)

**4SC-12 Special Program Lecture** Bioimaging with Micro/Nanoelectrode Systems (WPI-AIMR, Tohoku University) Matsue, Tomokazu (14:25~14:50)

**4SC-13# Special Program Lecture** Development of Microfluidic Paper-Based Analytical Devices (microPADs) by Inkjet Printing Technology (Keio Univ.) Citterio, Daniel (14:50~15:15)

Chair: TOKESHI, Manabu (15 : 25~16 : 30)

- 4SC-14 Special Program Lecture** Construction of the high sensitivity fluorescence detection system for microchips (Hamamatsu Photonics / "The Knowledge Hub" of Aichi) Hasegawa, Yutaka; Matsumoto, Hiroyuki; Kasama, Toshihiro; Kaji, Noritada; Kondo, Haruyasu; Ozawa, Tsutomu; Tokeshi, Manabu; Baba, Yoshinobu (15:25~15:45)
- 4SC-15 Special Program Lecture** Practical Application of Electrochemical DNA Chip (Corporate Research and Development center, Toshiba Corporation) Nobuhiro, Gemma (15:45~16:05)
- 4SC-16 Special Program Lecture** Proteomic analysis using a hollow fiber membrane device leads to discovery of novel diagnostic markers in blood (Toray Industries, Inc. New Frontiers Research Laboratories) Kobayashi, Michimoto (16:05~16:25)
- 4SC-17 Special Program Lecture** Concluding remarks (Osaka Prefecture Univ., Hokkaido Univ.) Hisamoto, Hideaki; Tokeshi, Manabu (16:25~16:30)

## Room SD

### FOREST HOUSE F103

### Development of advanced nanomaterials leading to novel applications

Friday, March 22, AM

Chair: Kajimoto, Shinji (9 : 30 ~ 11 : 05)

- 1SD-01 Special Program Lecture** Introductory talk (School of arts and sciences, The University of Tokyo) Mafune, Fumitaka (09:30~09:35)
- 1SD-02 Special Program Lecture** Liquid phase syntheses of doped nanophosphors and their applications (Keio Univ.) Isobe, Tetsuhiko (09:35~10:10)
- 1SD-03 Special Program Lecture** Preparation of inorganic nanoparticles by laser ablation in liquid and their optical properties (Tokyo Tech. IGS) Wada, Hiroyuki (10:10~10:30)
- 1SD-04 Special Program Lecture** Nano Drug Delivery System (Faculty of Pharmaceutical science, Tokyo University of Science) MAKINO, Kimiko; TOMODA, Keishiro; HIROTA, Keiji; TERADA, Hiroshi (10:30~11:05)

Chair: TSUJI, Takeshi (11 : 10~12 : 30)

- 1SD-05 Special Program Lecture** Quasi-single-mode random lasing within a ZnO nanoparticle film (RIES, Hokkaido Univ.) Fujiwara, Hideki (11:10~11:45)
- 1SD-06 Special Program Lecture** Fabrication of metal nanocolloids using laser ablation at air-liquid interface (Toyota Central R&D Labs., Inc.) Nishi, Teppei (11:45~12:05)
- 1SD-07 Special Program Lecture** Photothermal response of a single gold nanoparticle (The University of Tokushima) Hashimoto, Shuichi (12:05~12:30)

### Molecular Activation; Message from Bio- chemistry to Organic Synthesis

Monday, March 25, AM

Chair: SHIRO, Yoshitsugu (9 : 30 ~ 10 : 55)

- 4SD-01 Special Program Lecture** Purpose of this symposium (RIKEN Spring-8 Center) Shiro, Yoshitsugu (09:30~09:45)
- 4SD-02 Special Program Lecture** Enzyme-like Catalytic Reactions Mediated by Multi-metal Cluster Complexes (Graduate School of Engineering Science) Mashima, Kazushi (09:45~10:10)
- 4SD-03 Special Program Lecture** Strategy for Dioxygen Activation Based on Metalloenzyme Functions (Osaka University, Graduate School of Engineering) Itoh, Shinobu (10:10~10:35)
- 4SD-04 Special Program Lecture** Cross Talk between Biosynthesis of Natural Products and Organic Synthesis (Graduate School of Engineering, Tottori University) Nagano, Shingo (10:35~10:55)

Chair: HAYASHI, Takashi (10 : 55~12 : 30)

- 4SD-05 Special Program Lecture** Molecular Activation by Cooperative Catalysis: toward the Development of Novel Synthetic Transformations Enabled by Combined Catalysis (Graduate School of Engineering, Kyoto University) Nakao, Yoshiaki (10:55~11:15)
- 4SD-06 Special Program Lecture** Theoretical Point of View in Biological Chemistry and Synthetic Organic Chemistry (Faculty of Science, Ibaraki Univ.) Mori, Seiji (11:15~11:35)
- 4SD-07 Special Program Lecture** Development of Practically Useful Catalysts for Molecular Activation: An Approach from Functional Modeling of Metalloenzymes (Doshisha Univ.) Hitomi, Yutaka (11:35~11:55)
- 4SD-08 Special Program Lecture** Control of reactions catalyzed by biocatalysts for organic synthesis (Grad. Sch. Sci., Nagoya Univ.) Shoji,

Osami (11:55~12:15)

- 4SD-09 Special Program Lecture** Summary (Grad. Sch. Eng., Osaka Univ.) Hayashi, Takashi (12:15~12:30)

### Luminescence Chemistry Ensemble: Basis and Practical Application of Various Lumi- nescent Functions

Monday, March 25, PM

(13 : 30~13 : 35)

- 4SD-10 Special Program Lecture** Keynote (Osaka Prefecture University) Ikeda, Hiroshi (13:30~13:35)

Chair: IKEDA, Hiroshi (13 : 35~14 : 00)

- 4SD-11 Special Program Lecture** Expanding World of Luminescence (Flexible Electronics Research Centre, AIST) Tokumaru, Katsumi (13:35~14:00)

Chair: TOMOTSU, Norio (14 : 00~14 : 25)

- 4SD-12 Special Program Lecture** Chemistry of Luminescence Based on Theory and Computations (Institute for Molecular Science) Ehara, Masahiro (14:00~14:25)

Chair: WAKAMIYA, Atsushi (14 : 25~14 : 50)

- 4SD-13 Special Program Lecture** Molecular Designs of Novel Photoluminescent Organic Molecules (Research Center for Materials Science, Nagoya University) Yamaguchi, Shigehiro (14:25~14:50)

Chair: MUTAI, Toshiki (14 : 50~15 : 15)

- 4SD-14 Special Program Lecture** Control of Photoluminescence in Organic Crystals (Graduate School of Engineering, Osaka University JST PRESTO) Tohnai, Norimitsu (14:50~15:15)

Chair: TSUGE, Kiyoshi (15 : 15~15 : 40)

- 4SD-15 Special Program Lecture** Polarized photo-luminescence of the rare earth complexes (College of Science and Engineering, Aoyama Gakuin University) Hasegawa, Miki (15:15~15:40)

Chair: NAKATSU, Toru (15 : 40~16 : 05)

- 4SD-16 Special Program Lecture** Fundamental Chemistry and Development of Bio- and chemiluminescence (The University of Electro-Communications) Hirano, Takashi (15:40~16:05)

Chair: OYAIZU, Kenichi (16 : 05~16 : 30)

- 4SD-17 Special Program Lecture** Recent progress of light-emitting polymers (Tsukuba material development laboratory, Sumitomo Chemical) Tsubata, Yoshiaki (16:05~16:30)

## Room SE

### FOREST HOUSE F206

### Progress in Microwave Chemistry

Monday, March 25, AM

(9 : 30 ~ 9 : 35)

- 4SE-01 Special Program Lecture** Opening Remarks : Progress in Microwave Chemistry (AIST) Takeuchi, Kazuhiko (09:30~09:35)

Chair: IKENAGA, Kazutoshi (9 : 35 ~ 10 : 55)

- 4SE-02 Special Program Lecture** Microwave-assisted synthesis of ferrocene derivatives (College of Life Sciences, Ritsumeikan University) Okada, Yutaka (09:35~09:55)
- 4SE-03 Special Program Lecture** Non-thermal effect of Microwave on Enantioselective Catalysis (Department of Chemistry, Keio University) Yamada, Tohru (09:55~10:15)
- 4SE-04 Special Program Lecture** Microwave heated spectroscopy-NMR measurements under microwave irradiation (Grad. Sch. of Eng., Yokohama Natl. Univ.) Naito, Akira (10:15~10:35)
- 4SE-05 Special Program Lecture** EM simulation of microwave chemical processing (Chiba University; Tokyo Institute of Technology) Fujii, Satoshi; Wada, Yuji (10:35~10:55)

Chair: OHUCHI, Shokichi (11 : 05~12 : 30)

- 4SE-06 Special Program Lecture** Microwave unique effects for carbohydrates and a drug syntheses and enzymatic reactions (Bioproduction Research Institute, National Institute of Advanced Industrial Science and Technology (AIST) Shimizu, Hiroki (11:05~11:25)
- 4SE-07 Special Program Lecture** Degradation and recycling of Polymer under microwave irradiation (Sojo Univ.) Ikenaga, Kazutoshi (11:25~

11:45)

- 4SE-08 Special Program Lecture** Application of microwave heating in the field of fiberprocessing (Osaka Municipal Technical Research Institute) Yoshimura, Yurika (11:45~12:05)
- 4SE-09 Special Program Lecture** Microwave heating as low-energy-consumption and green technology (Japan chemical engineering & machinery Co., Ltd.) Chikata, Tsukasa (12:05~12:25)
- 4SE-10 Special Program Lecture** Future Scope to "Microwaves-Applied Chemistry" (Tokyo Institute of Technology) Wada, Yuji (12:25~12:30)

## Cutting-Edge Organocatalysis

Monday, March 25, PM

Chair: HAYASHI, Yujiro (13 : 30~15 : 00)

- 4SE-11 Special Program Lecture** Purpose of special event "Cutting-Edge Organocatalysis" (Graduate School of Science, Tohoku University) Terada, Masahiro (13:30~13:40)
- 4SE-12 Special Program Lecture** Chiral Amino Phosphonium Salts Catalyzed Selective Molecular Transformations (Graduate School of Engineering, Nagoya University) Uraguchi, Daisuke (13:40~14:00)
- 4SE-13 Special Program Lecture** Oxidation Reactions Using Designer Iodine Catalysts (Nagoya Univ.) Uyanik, Muhammet (14:00~14:20)
- 4SE-14 Special Program Lecture** Enantioselective Synthesis of Multi-substituted Biaryl Skeleton by Chiral Phosphoric Acid-Catalyzed Double Asymmetric Bromination (Desymmetrization/kinetic Resolution Sequence) (Department of Chemistry, Faculty of Science, Gakushuin University) Mori, Keiji (14:20~14:40)
- 4SE-15 Special Program Lecture** Development of asymmetric conjugate addition to acrylates catalyzed (Department of Chemistry, Graduate School of Science, Kyoto) Kano, Taichi (14:40~15:00)

Chair: TERADA, Masahiro (15 : 10~16 : 30)

- 4SE-16 Special Program Lecture** Development of Cooperative Asymmetric Reactions Using Organocatalysts and Transition-Metal Catalysts (The University of Tokyo) Miyake, Yoshihiro (15:10~15:30)
- 4SE-17 Special Program Lecture** Molecular Anchoring and Transformation by an Isolated Cavity (School of Engineering, The Univ. of Tokyo) MURASE, Takashi; FUJITA, Makoto (15:30~15:50)
- 4SE-18 Special Program Lecture** Transformation of Aldehyde to Amide, Carboxylic Acid, and Ester Catalyzed by NHC and Application to an Asymmetric Reaction (Graduate School of Pharmaceutical Sciences, Kyoto University) Yamada, Kennichi (15:50~16:10)
- 4SE-19 Special Program Lecture** Synthesis and catalytic activities of DMAP catalysts with an internal carboxylate (Institute for Chemical Research, Kyoto University) Furuta, Takumi (16:10~16:30)

**Room SF**  
FOREST HOUSE F301

## Molecular Science for Interface Devices

Friday, March 22, AM

Chair: Kiguchi, Manabu (9 : 30 ~ 10 : 50)

- 1SF-01 Special Program Lecture** Introductory talk (ISIR-SNAKEN, Osaka University) Taniguchi, Masateru (09:30~09:40)
- 1SF-02 Special Program Lecture** Control of molecular switching and conductance measurement (Kyoto University) Okuyama, Hiroshi (09:40~10:05)
- 1SF-03 Special Program Lecture** Interfacial interaction between a  $\pi$ -conjugated molecule and gold surface (RIKEN) Kim, Yousoo (10:05~10:25)
- 1SF-04 Special Program Lecture** Unoccupied electronic states at organic film/substrate interfaces (Sch. Sci., Osaka Univ.) Munakata, Toshiaki (10:25~10:50)
- Chair: Taniguchi, Masateru (11 : 05~12 : 30)
- 1SF-05 Special Program Lecture** Electron transport simulations and molecular design for  $\pi$ -stacking molecular junctions (Sch. Eng., The Univ. of Tokyo) Tada, Tomofumi (11:05~11:25)
- 1SF-06 Special Program Lecture** Development of functional units towards organic/molecular devices (Osaka University; JST-PRESTO) Ie, Yutaka (11:25~11:45)
- 1SF-07 Special Program Lecture** Spin-dependent electrical transport through ferrometallic electrode/organic molecule interfaces (Graduate School of Engineering Science, Osaka University) Yamada, Ryo; Tada, Hirokazu (11:45~12:05)
- 1SF-08 Special Program Lecture** Photoresponsive Behavior of

Photofunctional Molecules at Surfaces and Interfaces (Grad. Sch. of Eng., Kyoto University) Matsuda, Kenji (12:05~12:30)

## SPring-8 Symposium on XAFS—Fundamental Guidance

Friday, March 22, PM

Chair: Takaya, Hikaru (13 : 30~15 : 10)

- 1SF-09 Special Program Lecture** Introduction of analysis by EXAFS/XANES spectroscopy (Grad. Sch. Eng., Kyoto Univ.) Tanaka, Tsunehiro (13:30~14:00)
- 1SF-10 Special Program Lecture** The basic and advanced Measurement technics of X-ray Absorption Fine Structure(XAFS) in Spring-8 (Japan Synchrotron Radiation Institute) Nitta, Kiyofumi; Uruga, Tomoya (14:00~14:30)
- 1SF-11 Special Program Lecture** Soft X-ray photoabsorption spectroscopy; from the foundation to application. (JASRI/SPring-8) Tamenori, Yusuke (14:30~14:50)
- 1SF-12 Special Program Lecture** Pre-edge peak in XANES spectra of transition metals for empirical chemical state analysis (University of Tokushima) Yamamoto, Takashi (14:50~15:10)
- Chair: Iozaki, Katsuhiko (15 : 10~16 : 30)
- 1SF-13 Special Program Lecture** XAFS measurement of solid catalysts (Tottori University) Okumura, Kazu (15:10~15:30)
- 1SF-14 Special Program Lecture** Industrial Applications of XAFS (Toyota Central R&D Labs., Inc.) Nonaka, Takamasa (15:30~15:50)
- 1SF-15 Special Program Lecture** Combined in situ XAS and first-principles XANES simulation studies on Li-ion battery (NISSAN ARC Ltd., Nissan Motor Co. Ltd.) Imai, Hideto (15:50~16:10)
- 1SF-16 Special Program Lecture** Time-resolved/space-resolved XAFS Analysis of PEFC MEA (IMS) Tada, Mizuki (16:10~16:30)

## Instructions for X-ray crystal structure analysis -how to utilize 'checkCIF' before submission-

Monday, March 25, AM

Chair: TAKAYA, Hikaru (9 : 30 ~ 11 : 10)

- 4SF-01 Special Program Lecture** The process of X-ray crystal structure analysis and some pitfalls in the process (Ibaraki Quantum Beam Research Center (IQBRC)) Ohashi, Yuji (09:30~10:00)
- 4SF-02 Special Program Lecture** Notes for Data Collection (1): Selection of crystal and optimum measurement conditions (RIKEN Advanced Science Institute) Hashizume, Daisuke (10:00~10:35)
- 4SF-03 Special Program Lecture** Notes for Structural Analysis (1): Treatments of Space Group Determination and Twinned Crystals, Practical Examples (School of Science, Kitasato University) Minoura, Mao (10:35~11:10)

Chair: HASHIZUME, Daisuke (11 : 10~12 : 30)

- 4SF-04 Special Program Lecture** Notes for Structural Analysis (2): Problems and solutions based on real experience (Institute for Chemical Research, Kyoto University) Sasamori, Takahiro (11:10~11:45)
- 4SF-05 Special Program Lecture** Validation of crystal structure data (Department of Chemistry and Materials Science, Tokyo Institute of Technology) Uekusa, Hidehiro (11:45~12:20)
- 4SF-06 Special Program Lecture** Recent Trends in Acta Crystallographica (Graduate School of Arts and Sciences, The University of Tokyo) Ogawa, Keiichiro (12:20~12:30)

## Chemistry and Ultra High Performance Computers

Monday, March 25, PM

Chair: NAKAI, Hiromi (13 : 30~14 : 25)

- 4SF-07 Special Program Lecture** Opening Remarks (The Univ. of Tokyo) Takatsuka, Kazuo (13:30~13:35)
- 4SF-08 Special Program Lecture** Opening Address (RIKEN Advance Institute for Computational Science) Hirao, Kimihiko (13:35~13:40)
- 4SF-09 Special Program Lecture** Outline of science roadmap for molecular science (IMS) Nobusada, Katsuyuki (13:40~13:55)
- 4SF-10 Special Program Lecture** Science roadmap for molecular science (Molecular dynamics simulation) (Nagoya Univ.) Yoshii, Noriyuki (13:55~14:10)
- 4SF-11 Special Program Lecture** Science roadmap for molecular science (Electronic structure calculation) (IMS) Ishimura, Kazuya (14:10~14:25)

Chair: SAKAKI, Shigeyoshi (14 : 25~15 : 05)

- 4SF-12 Special Program Lecture** Computational Science-inspired Science and Technology of Coordination Space (iCeMS, Kyoto Univ.)

Kitagawa, Susumu (14:25~14:45)

**4SF-13 Special Program Lecture** Development of metal cluster-based catalysts: Interplay between experiments and theory (The Univ. of Tokyo) Tsukuda, Tatsuya (14:45~15:05)

Chair: SATO, Hirofumi (15 : 05~16 : 05)

**4SF-14 Special Program Lecture** Development of computational life science based on large scale computation (Riken Institute) Kidera, Akinori (15:05~15:20)

**4SF-15 Special Program Lecture** Towards Next Generation of Computational Materials Science (ISSP, University of Tokyo) Todo, Syngye (15:20~15:35)

**4SF-16 Special Program Lecture** Computational Materials Science as a tool in Materials Science (Hokkaido University/IMR, Tohoku University) Mohri, Tetsuo (15:35~15:50)

**4SF-17 Special Program Lecture** Prospect for industrial application of next-generation molecular science and computational chemistry (AGC) Takada, Akira (15:50~16:05)

Chair: MATUBAYASI, Nobuyuki (16 : 05~16 : 30)

**4SF-18 Special Program Lecture** Discussion (16:05~16:25)

**4SF-19 Special Program Lecture** Concluding remarks (IMS) Nobusada, Katsuyuki (16:25~16:30)

## Room SG

FOREST HOUSE F302

### Emerging Areas in Chemical Biology - New Life Science Strategies Powered by Organic Chemistry, I

Friday, March 22, AM

Chair: Kigoshi, Hideo (9 : 00 ~ 10 : 05)

**1SG-01 Special Lecture** Opening Remarks (Graduate School of Science, Osaka University) Murata, Michio (09:00~09:05)

**1SG-02 Special Lecture** "Glycosylation Switching": Regulation of bioactivity innaturally occurring ligand (Department of chemistry, Tohoku University) Ueda, Minoru (09:05~09:35)

**1SG-03 Special Lecture** Bioanalysis toward biomembrane chemical biology (Graduate School of Science, Osaka University) Matsumori, Nobuaki (09:35~10:05)

Chair: Kakeya, Hideaki (10 : 05~11 : 20)

**1SG-04 Special Lecture** Biomarker research for drug development (Eisai Inc) Oda, Yoshiya (10:05~10:35)

**1SG-05 Special Lecture** Regulation of receptor signaling for antitumor effect (Graduate School of Science, Osaka University) Fukase, Koichi (10:50~11:20)

Chair: Uemura, Daisuke (11 : 20~12 : 30)

**1SG-06 Special Lecture** Single-molecule mechanochemistry of biomolecules and synthetic molecules (Univ. Tokyo) NOJI, Hiroyuki; WATANABE, Rikiya; IKEDA, Tomohiro (11:20~11:50)

**1SG-07 Special Lecture** Oxygen-evolving Mn<sub>4</sub>CaO<sub>5</sub> cluster of photosystem II ; towards development of novel catalysts for artificial photosynthesis (The OCU Advanced Research Institute for Natural Science and Technology (OCARINA), Graduated School of Science, Osaka City University) KAMIYA, Nobuo (11:50~12:20)

**1SG-08 Special Lecture** Closing Remarks (Graduate School of Science, Osaka University) Murata, Michio (12:20~12:30)

### Molecular Science for Complex Systems - Complexity and Softness

Friday, March 22, PM

Chair: KITAO, Akio (13 : 30~14 : 15)

**1SG-09 Special Lecture** Object: Complexity and Flexibility (RIKEN) Tahara, Tahei (13:30~13:45)

**1SG-10 Special Lecture** Catalytic activity and conformational flexibility of enzymes studied by molecular simulations (Graduate School of Science, Kyoto University) Hayashi, Shigehiko (13:45~14:15)

Chair: Mizutani, Yasuhisa (14 : 15~15 : 15)

**1SG-11 Special Lecture** Theoretical analysis of structure and function of soft interfaces (Department of Chemistry, Tohoku University) Morita, Akihiro (14:15~14:45)

**1SG-12 Special Lecture** High speed tracking of single molecule fluorescence signals from unfolded proteins (Institute of Multidisciplinary Research for Advanced Materials, Tohoku University) Takahashi, Satoshi (14:45~

15:15)

Chair: Yoshizawa, Michito (15 : 45~16 : 15)

**1SG-13 Special Lecture** Functional Design of Proteins (Nagoya Institute of Technology) Kandori, Hideki (15:45~16:15)

Chair: Kandori, Hideki (16 : 15~17 : 15)

**1SG-14 Special Lecture** Molecular Soft Materials Via Fine-tuning of Molecular Design (NIMS) Nakanishi, Takashi (16:15~16:45)

**1SG-15 Special Lecture** Flexibility of Continuous Multiple Coordination Bonds in Organo-transition Metal Clusters (Institute for Molecular Science) Murahashi, Tetsuro (16:45~17:15)

Chair: Tahara, Tahei (17 : 15~17 : 30)

**1SG-16 Special Lecture** Discussion (RIKEN) Tahara, Tahei (17:15~17:30)

## Room SH

FOREST HOUSE F306

### Special Lecture

Sunday, March 24, AM

Chair: SEKIGUCHI, Akira (10 : 00~10 : 50)

**3SH-01# Special Lecture** The Mechanism of the Reaction of Hydrogen and Olefins with Multiple Bonded Heavier Group 13 and 14 Species (University of California at Davis) Philip Patrick Power (10:00~10:50)

Chair: ABE, Manabu (10 : 50~11 : 40)

**3SH-02# Special Lecture** Metallosilanes. Novel Reagents for Synthesis (Israel Institute of Technology) Yitzhak Apeloig (10:50~11:40)

### Multifunctional Molecular Materials and Dimensionality

Monday, March 25, AM

Chair: KAWAMATA, Jun (9 : 30 ~ 10 : 50)

**4SH-01 Special Program Lecture** Introduction (IMRAM, Tohoku University) Akutagawa, Tomoyuki (09:30~09:35)

**4SH-02 Special Program Lecture** Crystal Structures and Plural Functions of Photochromic Molecular Crystals (Dept. Chem., Rikkyo Univ.) Morimoto, Masakazu (09:35~10:00)

**4SH-03 Special Program Lecture** Soft matters with an unprecedented 3D structure (RIKEN ASI • Chem. Res. Lab., Tokyo Inst. Tech.) Fukushima, Takanori (10:00~10:25)

**4SH-04 Special Program Lecture** Unique photocatalysis of organized molecules in nanoporous material (Toyota Central R&D Labs., Inc.) Inagaki, Shinji (10:25~10:50)

Chair: AKUTAGAWA, Tomoyuki (11 : 05~12 : 30)

**4SH-05 Special Program Lecture** Optical and electronic properties induced by multifunctional molecular interfaces (Research center for materials science • CREST) Awaga, Kunio (11:05~11:30)

**4SH-06 Special Program Lecture** Optical Properties of Organic Compounds Confined in Interlayer Spaces of Inorganic Layered Materials (Graduate School of Medicine, Yamaguchi University) Kawamata, Jun (11:30~11:55)

**4SH-07 Special Program Lecture** Materials Research in Dimensional Crossover Region (Faculty of Science) Kitagawa, Hiroshi (11:55~12:20)

**4SH-08 Special Program Lecture** Summary (IMRAM, Tohoku University) Akutagawa, Tomoyuki (12:20~12:30)

## Room SJ

PRISM HOUSE PRISM HALL

### CSJ Award Presentation

Friday, March 22, AM

Chair: SHIROTA, Yasuhiko (11 : 00~12 : 00)

**1SJ-01 CSJ Award Presentation** Studies on Organic Synthesis Based on Reaction Integration Using Reactive Intermediates (Graduate School of Engineering, Kyoto University) Yoshida, Junichi (11:00~12:00)



Friday, March 22, PM

Chair: KOBAYASHI, Takayoshi (13:00~14:00)

**1S1-02 CSJ Award Presentation** Theory and Computation for Constructing Molecules Characteristic of Heavier Elements and Nano-structures (Institute for Molecular Science; Kyoto University) Nagase, Shigeru (13:00~14:00)

Chair: SAITO, Gunzi (14:10~15:10)

**1S1-03 CSJ Award Presentation** Study on Creation of Iron-based Superconductors and Transparent Amorphous Oxide Semiconductors (IGZO) for Flat Panel Displays (Frontier Research Center, Tokyo Institute of Technology) HOSONO, Hideo (14:10~15:10)

Chair: KOINUMA, Hideomi (15:20~16:20)

**1S1-04 CSJ Award Presentation** Creation of New Methods for Measurement and Their Applications –From Atoms to Human Mind– (Hitachi, Ltd.) KOIZUMI, Hideaki (15:20~16:20)

Sunday, March 24, AM

Chair: OHMINE, Iwa0 (10:00~11:00)

**3S1-01 CSJ Award Presentation** Self-assembly Control of the Structure of Matter on the Nanoscale (School of Engineering, The University of Tokyo) Fujita, Makoto (10:00~11:00)

Chair: TATSUMI, Takashi (11:10~12:10)

**3S1-02 CSJ Award Presentation** Research & Development of New Materials for Fuel Cells (Fuel Cell Nanomaterials Center, Univ. of Yamanashi) Watanabe, Masahiro (11:10~12:10)

CSJ Public Lecture

Sunday, March 24, PM

Chair: SUMIDA, Yasutaka (13:05~13:40)

**3S1-03 CSJ Public Lecture** Approaching Nature Habitat Recovery of Lake Biwa (Friends of Lake Biwa) Terakawa, Shozo (13:05~13:50)

Chair: TSUJI, Ryotaro (13:55~14:40)

**3S1-04 CSJ Public Lecture** Protection of Cultural Property - Chemistry for Conservation Science- (Gangoji Institute for Research of Cultural Property) Ueda, Naomi (13:55~14:40)

Chair: YORIMITSU, Hideki (14:55~16:30)

**3S1-05 CSJ Public Lecture** Why plasma free amino acid profiling can know various disease risks? (AJINOMOTO Co.,Inc.) Ando, Toshihiko (14:55~15:40)

**3S1-06 CSJ Public Lecture** Geological evidence of unusually large earthquakes –know the past, think the future (Active Fault and Earthquake Research Center, National Institute of Advanced Industrial Science and Technology (AIST)) Sawai, Yuki (15:45~16:30)

**Room H1**  
RARCADIA R101

Challenge for the emerging issues with new biotechnologies

Friday, March 22, PM

Bioenergy: Can biofuel cells be alternative electrical energy source ?

Chair: KANO, Kenji (13:00~17:30)

**1H1-25** Opening Remarks (Graduate School of Agriculture, Kyoto Univ.) Kano, Kenji (13:00~13:10)

**1H1-26 ATP Special Invited Lecture** Systematic material design and development of enzyme electrode for bio-fuel cells (Chemical Resources Laboratory, Tokyo Institute of Technology) Yamaguchi, Takeo; Tamaki, Takanori (13:10~13:50)

**1H1-30 ATP Special Invited Lecture** Electrochemical oxygen reduction reaction catalyzed by multicopper oxidases (Faculty of Pure and Applied Sciences, University of Tsukuba) Tsujimura, Seiya (13:50~14:30)

**1H1-34 ATP Invited Lecture** Development of enzymatic biofuel cells (TOYOTA MOTOR CORPORATION) Kusumegi, Takahiro; Sugimoto, Tatsuhiro; Yoneda, Satoshi; Kohno, Noriko; Kawaguchi, Toshiya (14:30~15:00)

**1H1-37** Incubation Time (15:00~15:20)

**1H1-39 ATP Special Invited Lecture** Enzyme Electrode Films and Sheet-Shaped Biofuel Cells (Tohoku Univ.; JST-CREST; AIST) Nishizawa,

Matsuhiko; Miyake, Takeo; Hata, Kenji; Yamada, Takeo (15:20~16:00)

**1H1-43 ATP Invited Lecture** Current trends and issues of biofuel cell for practical use (Sony Corporation, Advanced Materials Laboratories) Sakai, Hideki; Nakagawa, Takaaki; Tokita, Yuuichi (16:00~16:30)

**1H1-46 ATP Keynote Lecture** Microbial electricity generation by extracellular electron transfer (School of Engineering, The University of Tokyo) Hashimoto, Kazuhito (16:30~17:20)

**1H1-51** Incubation Time (17:20~17:30)

Resource, Next Generation Energy and Environment

Saturday, March 23, AM

Next Generation Photovoltaic Technologies

(9:40~9:50)

**2H1-05** Opening Remarks (RCAST, The Univ. of Tokyo) SEGAWA, Hiroshi (09:40~09:50)

Chair: SEGAWA, Hiroshi (9:50~10:40)

**2H1-06 ATP Keynote Lecture** High Efficiency Organic Inorganic Hybrid Solar Cells (Grad. Sch. Eng., Toin Univ. of Yokohama) MIYASAKA, Tsutomu (09:50~10:40)

Chair: TORIMOTO, Tsukasa (10:40~11:20)

**2H1-11 ATP Special Invited Lecture** Research trend of transparent conductive oxide layer-less organic solar cells, their advantages, and their material reseraches (Kyutech) HAYASE, Shuji (10:40~11:20)

Chair: MIYASAKA, Hiroshi (11:20~12:00)

**2H1-15 ATP Special Invited Lecture** Charge Separation Mechanism in Organic Thinfilm Solar Cells (Grad. Sch. Eng., Kyoto Univ.) ITO, Shinzaburo; OHKITA, Hideo; BENTEN, Hiroaki (11:20~12:00)

Saturday, March 23, PM

Chair: KONNO, Akinori (13:00~14:00)

**2H1-25 ATP Invited Lecture** Development of highly efficient dye-sensitized solar cell (Department of Industrial Chemistry, Faculty of Engineering, Tokyo Univ. of Science) OZAWA, Hironobu; ARAKAWA, Hironori (13:00~13:30)

**2H1-28 ATP Invited Lecture** Development of New Dyes for DSCs by Fine-tuning of the Electronic Structure (Inst. Chem. Res., Kyoto Univ.) WAKAMIYA, Atsushi (13:30~14:00)

Chair: HAYASE, Shuji (14:00~15:00)

**2H1-31 ATP Invited Lecture** Efficient dye-sensitized solar cells with nano clay electrolyte (KOMEX, The Univ. of Tokyo) UCHIDA, Satoshi; TOMITA, Mitsuru; KUBO, Takaya; SEGAWA, Hiroshi (14:00~14:30)

**2H1-34 ATP Invited Lecture** Control of Interface Structures in Polymer Solar Cells (RIKEN) TAJIMA, Keisuke; HASHIMOTO, Kazuhito (14:30~15:00)

Chair: WAKAMIYA, Atsushi (15:00~16:00)

**2H1-37 ATP Invited Lecture** Organic thin film photovoltaic modules (TOSHIBA CORPORATION) HOSOYA, Masahiro; OOOKA, Haruhii; NAKAO, Hideyuki; GOTANDA, Takeshi; MORI, Shigehiko; SHIDA, Naomi; HAYASE, Rumiko; NAKANO, Yoshihiko; SAITO, Mitsunaga (15:00~15:30)

**2H1-40 ATP Invited Lecture** Development of High Performance Dye-sensitized Solid-state Solar Cells (Shizuoka Univ.) KONNO, Akinori (15:30~16:00)

Chair: TAJIMA, Keisuke (16:00~17:30)

**2H1-43 ATP Invited Lecture** Working Principles of Dye-Sensitized Solar cells (Shinshu Univ.) MORI, Shogo (16:00~16:30)

**2H1-46 ATP Invited Lecture** Development of Dye-sensitized Solar Cell (DSC) as Indoor Energy Harvesters (ROHM) OKU, Yoshiaki (16:30~17:00)

**2H1-49 ATP Invited Lecture** Development of Sensor-Network Node with DSSC (Murata Manufacturing Co., Ltd.) WADA, Yoshifumi (17:00~17:30)

Sunday, March 24, AM

Chair: SEGAWA, Hiroshi (9:50~10:40)

**3H1-06 ATP Keynote Lecture** Advanced technology Chemical techniques contribute extensively to the development of solar cells and, as a result, the shining photovoltaic power generation era is coming (PVTEC) KUWANO, Yukinori (09:50~10:40)

Chair: ITO, Seigo (10:40~11:20)

**3H1-11 ATP Special Invited Lecture** Design of Organic Semiconductors and Solution-processed Organic Thin-film Photovoltaic Cells (Grad. Sch.

Sci., The Univ. of Tokyo) MATSUO, Yutaka (10:40~11:20)

Chair: IKEGAMI, Masashi (11:20~12:00)

**3H1-15 ATP Special Invited Lecture** Solution Phase Preparation of I-III-VISemiconductor Nanoparticles and Their Application to Sensitized Solar Cells (Grad. Sch. Eng., Nagoya Univ.) TORIMOTO, Tsukasa (11:20~12:00)

### Sunday, March 24, PM

Chair: MIYASAKA, Tsutomu (13:00~14:00)

**3H1-25 ATP Invited Lecture** Highly Efficient Thin Film Organic Photovoltaic Devices (Mitsubishi Chemical Group) ARAMAKI, Shinji (13:00~13:30)

**3H1-28 ATP Invited Lecture** Material Development for Solid State Dye-Sensitized Solar Cell (Merck Ltd.) SHINOHARA, Hiromi; SAWADA, Atsushi; RENKER, Sabine (13:30~14:00)

Chair: MATSUO, Yutaka (14:00~15:00)

**3H1-31 ATP Invited Lecture** Organic photovoltaic evaluation method by utilizing Spectral Reference Cell (Konica Minolta Optics, Inc.) NISHIKAWA, Yoshihiro (14:00~14:30)

**3H1-34 ATP Invited Lecture** Sensitized Solar Cells using Inorganic Photoabsorber (Univ. of Hyogo) ITOH, Seigo; TSUJIMOTO, Kazuki; NISHINO, Hitoshi; MANABE, Kyohei (14:30~15:00)

Chair: KIMURA, Mutsumi (15:00~16:00)

**3H1-37 ATP Invited Lecture** An accurate I-V measurement method for dye-sensitized solar cells (SONY) SHIMURA, Jusuke; NODA, Kazuhiro (15:00~15:30)

**3H1-40 ATP Invited Lecture** Development of wide-band dye sensitized solar cells with spin-orbital coupling (RCAST, The Univ. of Tokyo) KINOSHITA, Takumi (15:30~16:00)

Chair: UCHIDA, Satoshi (16:00~17:30)

**3H1-43 ATP Invited Lecture** Durability analysis of dye-sensitized solar cells with selected organic dyes (TOYOTA CENTRAL R&D LABS.,INC.; AISIN SEIKI Co., LTD) KATO, Naohiko; TOYODA, Tatsuo (16:00~16:30)

**3H1-46 ATP Invited Lecture** Interfacial alignment for highly efficient dye-sensitized solar cells (NIMS) HAN, Liyuan (16:30~17:00)

**3H1-49 ATP Invited Lecture** Development of plastic film dye-sensitized solar cells and modules (Pecell Technologies, Inc; Toin Univ. of Yokohama) IKEGAMI, Masashi (17:00~17:30)

Chair: HAYASE, Shuji (17:30~18:30)

**3H1-52 Panel Discussion** Present Status and Next Challenge for Photovoltaics (17:30~18:30)

### Monday, March 25, AM

Chair: KUBO, Takaya (9:40~10:20)

**4H1-05 ATP Special Invited Lecture** Organic Radical-type Dye-sensitized Solar Cell (Waseda Univ.) OYAIZU, Kenichi; NISHIDE, Hiroyuki (09:40~10:20)

Chair: SUGIHARA, Hideki (10:20~11:00)

**4H1-09 ATP Special Invited Lecture** Recent Development of Surface Complex Solar Cells (RCAST, The Univ. of Tokyo) FUJISAWA, Jun-ichi (10:20~11:00)

Chair: OYAIZU, Kenichi (11:00~12:00)

**4H1-13 ATP Invited Lecture** Studies toward efficient polymer-sensitized solar cells fabricated with polythiophene derivatives and nanoporous TiO<sub>2</sub> structures (RCAST, The Univ. of Tokyo) KUBO, Takaya (11:00~11:30)

**4H1-16 ATP Invited Lecture** Development of ruthenium complex sensitizers for dye-sensitized solar cells (AIST) SUGIHARA, Hideki (11:30~12:00)

### Monday, March 25, PM

Chair: FUJISAWA, Jun-ichi (13:00~14:00)

**4H1-25 ATP Invited Lecture** Development of Highly Durable Inverted Organic Solar Cells Fabricating in Atmosphere (Kanazawa Univ., Institute of Science & Engineering, RSET) TAKAHASHI, Kohshin; KUWABARA, Takayuki (13:00~13:30)

**4H1-28 ATP Invited Lecture** Nanohybrid Structures Targeted at Highly Efficient Photoenergy Conversion (Grad. Sch. Sci., Eng., Tokyo Tech) WADA, Yuji (13:30~14:00)

Chair: TAKAHASHI, Kohshin (14:00~15:00)

**4H1-31 ATP Invited Lecture** In situ observation of N719 dye on TiO<sub>2</sub> electrodes (Yamagata Univ.) HIROSE, Fumihiko (14:00~14:30)

**4H1-34 ATP Invited Lecture** Vision of the solar market expansion

opened by development of an Optical-disc type Dye-sensitized Solar Cell. (TAIYO YUDEX CO., LTD.; NTT FACILITIES, INC.) FUKUSHIMA, Takeyuki; HIRAOKA Masami (14:30~15:00)

Chair: WADA, Yuji (15:00~16:30)

**4H1-37 ATP Invited Lecture** Development of Linear Sulfone Electrolytic Solution for High durable Dye-Sensitized Solar Cells (Japan Carlit) YANADA, Kazato (15:00~15:30)

**4H1-40 ATP Invited Lecture** Characteristics of Nano-Titanium Oxide for Dye-sensitized Solar Cell (MIKUNI COLOR LTD.) KAWARAYA, Masahide (15:30~16:00)

**4H1-43 ATP Invited Lecture** Transparent PEDOT electrode for Pt-Free Dye-Sensitized Solar Cells (Nippon Chemi-Con Corporation.) MACHIDA, Kenji (16:00~16:30)

## Room H2

RARCADIA R102

### Frontiers in Development of New Materials

Friday, March 22, PM

#### Printed Electronics

(13:30~13:40)

**1H2-28** Opening Remarks (ISIR, Osaka Univ.) SUGANUMA, Katsuaki (13:30~13:40)

Chair: SUGANUMA, Katsuaki (13:40~17:30)

**1H2-29 ATP Special Invited Lecture** Organic Electronic Materials and CEREBAs (Chemical materials Evaluation and Research Base (CEREBAs)) URANO, Toshiyuki (13:40~14:20)

**1H2-33 ATP Special Invited Lecture** Current Status and Future Trend on High Quality OLED for Lighting Application (Panasonic Corporation Eco Solutions Company) Komoda, Takuya (14:20~15:00)

**1H2-40 ATP Special Invited Lecture** Low Temperature Plasma CVD of Graphene and Roadmap to Transparent Electrode Applications (AIST) HASEGAWA, Masataka; ISHIHARA, Masatou; YAMADA, Takatoshi; OKIGAWA, Yuuki; TSUGAWA, Kazuo; SHIMADA, Nayuta (15:30~16:10)

**1H2-44 ATP Special Invited Lecture** Sintering of Metal Ink and Silver Nano wire Ink Using Intense Pulsed Light. (Showa Denko K.K.) Uchida, Hiroshi (16:10~16:50)

**1H2-48 ATP Special Invited Lecture** Flexible Electronics using Printing Technology board (NIPPON MEKTRON, LTD.) OZAKI, Kazuyuki (16:50~17:30)

### Saturday, March 23, AM

#### Printed Electronics

Chair: NAKAJIMA, Atsushi (9:10~12:10)

**2H2-02 ATP Special Invited Lecture** High-speed organic semiconductor devices (ISIR, Osaka Univ.) Takeya, Jun-ichi (09:10~09:50)

**2H2-06 ATP Special Invited Lecture** Oxide Semiconductors: material design concept and applications (Frontier Research Center, Tokyo Institute of Technology) Hosono, Hideo (09:50~10:30)

**2H2-12 ATP Special Invited Lecture** Novel Printing Technologies of Organic Semiconductors (AIST) Hasegawa, Tatsuo (10:50~11:30)

**2H2-16 ATP Special Invited Lecture** Fabrication of organic TFTs with printing methods and its application to integrated circuits (ROEL, Yamagata Univ.) Tokito, Shizuo (11:30~12:10)

### Saturday, March 23, PM

Chair: TAKAKU, Koji (13:10~15:10)

**2H2-26 ATP Special Invited Lecture** Development of advanced printed electronic technologies (AIST-FLEC · JAPER) Kamata, Toshihide (13:10~13:50)

**2H2-30 ATP Special Invited Lecture** Recent progress in polymer light-emitting material (Sumitomo Chemical Co., Ltd.) Yamada, Takeshi (13:50~14:30)

**2H2-34 ATP Special Invited Lecture** Development of printable dye-sensitized hybrid solar cells (Tin University of Yokohama) Miyasaka, Tsutomu (14:30~15:10)

Chair: MATSUMOTO, Kazumasa (15:30~17:30)

**2H2-40 ATP Special Invited Lecture** Organic flexible electronics for next-generation medical/healthcare applications (The University of Tokyo) Sekitani, Tsuyoshi; Someya, Takao (15:30~16:10)

**2H2-44 ATP Special Invited Lecture** Gas barrier technologies and

their international standardization (Department of Applied Chemistry, Meiji University) Nagai, Kazukiyo (16:10~16:50)  
**2H2-48 ATP Special Invited Lecture** Printed electronics on cellulose nanofiber papers (ISIR, Osaka university) Nogi, Masaya (16:50~17:30)

## Resource, Next Generation Energy and Environment

Sunday, March 24, PM

### Fuel Cells & Hydrogen Energy Technology

Chair: KUDO, Akihiko (14 : 30~16 : 20)

- 3H2-34 ATP Keynote Lecture** Fuel Cell Electric Vehicle Development in Honda and toward the introduction (Honda R&D Co., Ltd.) Moriya, Takashi (14:30~15:20)  
**3H2-39 ATP Keynote Lecture** The strategy of hydrogen infrastructure deployment toward introduction of fuel cell vehicles (JX Nippon Oil & Energy) Hirose, Masanori (15:20~16:10)  
**3H2-44** Incubation Time (16:10~16:20)

Chair: Hirose, Masanori (16 : 20~17 : 40)

- 3H2-45 ATP Special Invited Lecture** Hydrogen as an Energy Storage Medium (Grad. Sch. Eng., Kyushu Univ., I2CNER, Kyushu Univ.) Akiba, Etsuo (16:20~17:00)  
**3H2-49 ATP Special Invited Lecture** Solar hydrogen and photocatalysts for artificial photosynthesis (Tokyo University of Science, Faculty of Science) Kudo, Akihiko (17:00~17:40)

### Monday, March 25, AM

Chair: ISHIHARA, Tatsumi (10 : 00~12 : 00)

- 4H2-07 ATP Special Invited Lecture** Current Status and Future Vision of Residential PEMFC "ENE-FARM" (Toshiba Fuel Cell Systems Corporation) Nagata, Yuji (10:00~10:40)  
**4H2-11 ATP Special Invited Lecture** Research and Development in FC-Cubic for Low-Cost and High-Performance MEA (Technology Research Association FC-Cubic) SHINOHARA, Kazuhiko; AOKI, Akira; HASEGAWA, Hiroshi (10:40~11:20)  
**4H2-15 ATP Special Invited Lecture** Research and Development of Material for Polymer Electrolyte Fuel Cells (Clean Energy Research Center; Fuel Cell Nanomaterials Center, University of Yamanashi) Uchida, Hiroyuki; YANO, Hiroshi; WAKISAKA, Mitsuru; WATANABE, Masahiro (11:20~12:00)

### Monday, March 25, PM

Chair: UCHIDA, Hiroyuki (13 : 00~14 : 40)

- 4H2-25 ATP Invited Lecture** Research on Perfluorinated Polymer Electrolytes towards PEFC Operation at High Temperature and Low Humidity (AGC) Watakabe, Atsushi; Saito, Susumu; Yamada, Kohta; Hommura, Satoru; Shimohira, Tetsuji (13:00~13:30)  
**4H2-28 ATP Invited Lecture** Development of High Temperature PEFC in BASF (BASF Japan) Yamamoto, Osamu; Carsten, Henschel; Emory S. De Castro (13:30~14:00)  
**4H2-31 ATP Invited Lecture** Electrolyte Materials for Alkaline Membrane Fuel Cells (Tokuyama Corp.) Fukuta, Kenji (14:00~14:30)  
**4H2-34** Incubation Time (14:30~14:40)

Chair: Nagata, Yuji (14 : 40~16 : 30)

- 4H2-35 ATP Special Invited Lecture** The development and residential SOFC-CHP (Osaka Gas Co., LTD.) Kayahara, Yoshitaka (14:40~15:20)  
**4H2-39 ATP Special Invited Lecture** Roles of Materials Science in Establishing Durability and Reliability of Solid Oxide Fuel Cells (National Institute of Advanced Industrial Science and Technology (AIST)) Yokokawa, Harumi (15:20~16:00)  
**4H2-43 ATP Invited Lecture** Anodic property of doped CeO<sub>2</sub> for intermediate temperature solid oxide fuel cells and its conductivity (I2CNER, Kyushu University) Ishihara, Tatsumi; Young Wan Ju (16:00~16:30)

## Room H3

RARCADIA R103

## Frontiers in Development of New Materials

Friday, March 22, AM

### Fine Patterning Technology

(9 : 00 ~9 : 10 )

- 1H3-01** Opening Remarks (Osaka Pref. Univ.) HIRAI, Yoshihiko (09:00~09:10)

Chair: HIRAI, Yoshihiko (9 : 10 ~11 : 20)

- 1H3-02 ATP Keynote Lecture** UV Nanoimprint (AIST) HIROSHIMA, Hiroshi (09:10~10:00)  
**1H3-07 ATP Special Invited Lecture** Room temperature nanoimprint (Univ. of Hyogo) MATSUI, Shinji (10:00~10:40)  
**1H3-11 ATP Special Invited Lecture** Novel Fluorinated Compounds for Releasing Material in Nanoimprint Lithography (Daikin Industries, Ltd.) Yamashita, Tsuneo; Morita, Masamichi (10:40~11:20)

Chair: MATSUI, Shinji (11 : 20~12 : 00)

- 1H3-15 ATP Special Invited Lecture** Nanoimprint lithography materials and plasmonics applications (IMRAM, Tohoku Univ.) KUBO, Shoichi (11:20~12:00)

### Friday, March 22, PM

Chair: MATSUI, Shinji (13 : 00~14 : 00)

- 1H3-25 ATP Invited Lecture** Application of nanoimprint and DSA technology for fabrication of bit patterned media (Toshiba R&D Center) Kihara, Naoko (13:00~13:30)  
**1H3-28 ATP Invited Lecture** Application for functional polymers (Osaka Pref. Univ.) HIRAI, Yoshihiko (13:30~14:00)

Chair: KUDO, Hiroto (14 : 10~16 : 20)

- 1H3-32 ATP Keynote Lecture** EUV Resist Development at Center for EUVL (Univ. of Hyogo) WATANABE, Takeo; HARADA, Testuo; KINOSHITA, Hiroo (14:10~15:00)  
**1H3-37 ATP Special Invited Lecture** Stochastic effect of extreme ultraviolet lithography and material design (ISIR, Osaka Univ.; EIDEC) KOZAWA, Takahiro; SANTILLAN, Julius Joseph; ITANI, Toshiro (15:00~15:40)  
**1H3-41 ATP Special Invited Lecture** EUV Resist Technology (EIDEC) Itani, Toshiro (15:40~16:20)

Chair: KOZAWA, Takahiro (16 : 20~17 : 20)

- 1H3-45 ATP Invited Lecture** Directed self assembly materials development for fine patterning (JSR) MINEGISHI, Shinya (16:20~16:50)  
**1H3-48 ATP Invited Lecture** Material Design of EUV resist for 15nm half pitch (Fujifilm Corporation) Tarutani, Shinji (16:50~17:20)

### Saturday, March 23, AM

## Frontiers in Research on Biomimetics Based on Self-assembly and Harmonized Materials

(9 : 30 ~9 : 40 )

- 2H3-04** Opening Remarks (IMRAM, Tohoku Univ.) SHIMOMURA (09:30~09:40)

Chair: SHIMOMURA, Masatsugu (9 : 40 ~11 : 00)

- 2H3-05 ATP Keynote Lecture** Who Are We and Who Can We Be? Learning To Live With Nature's Rules (Kanazawa Inst. of Tech.) NAGAO, Takashi (09:40~10:30)  
**2H3-10 ATP Invited Lecture** Distinctive structures of calcium carbonate biominerals revealed by electron microscopy (Sch. Sci., The Univ. of Tokyo) KOGURE, Toshihiro; OKUMURA, Taiga; SUZUKI, Michio; NAGASAWA, Hiromichi (10:30~11:00)

Chair: YAMAGUCHI, Tomohiko (11 : 00~12 : 00)

- 2H3-13 ATP Invited Lecture** Biomimetics Research in Biological Inorganic Chemistry (IMRAM, Tohoku Univ.) IKEDA-SAITO, Masao (11:00~11:30)  
**2H3-16 ATP Invited Lecture** If biology-ignorant, Engineering is not a science (Prof. Emeritus, Hokkaido Univ.) SHIMOZAWA, Tateo (11:30~12:00)

Saturday, March 23, PM

Chair: IKEDA-SAITO, Masao (13 : 00~15 : 00)

- 2H3-25 ATP Special Invited Lecture** Self-assembled nano-electronic functionalities and its applications to flexible medical devices (Sch. Eng., The Univ. of Tokyo) Sekitani, Tsuyoshi; Someya, Takao (13:00~13:40)
- 2H3-29 ATP Keynote Lecture** *Yawarakai Robots* (AIST) YAMAGUCHI, Tomohiko (13:40~14:30)
- 2H3-34 ATP Invited Lecture** Construction of Peptide Nanomaterials by mimicking Viral Self-assembly (Grad. Sch. Eng., Tottori Univ.) MATSUURA, Kazunori (14:30~15:00)

Chair: MATSUURA, Kazunori (15 : 00~16 : 40)

- 2H3-37 ATP Invited Lecture** Nanofibers using Self-Assembling Peptides (Grad. Sch. Biosci. Biotech., Tokyo Tech) MIHARA, Hisakazu; Tsutsumi, Hiroshi (15:00~15:30)
- 2H3-40 ATP Invited Lecture** Adhesive system in insects : approach from developmental biology (Hokkaido Univ. of Educ.; Hamamatsu Univ. School of Medicine) KIMURA, Ken-ichi; Yamahama, Yumi; Hariyama, Takahiko (15:30~16:00)
- 2H3-43 ATP Special Invited Lecture** Design of self-oscillating polymer gels and application to novel biomimetic materials (Sch. Eng., The Univ. of Tokyo) YOSHIDA, Ryo (16:00~16:40)

Sunday, March 24, AM

Chair: TANAKA, Takuo (9 : 40 ~11 : 30)

- 3H3-05 ATP Keynote Lecture** Creative Development of Inorganic-Organic Fusion Materials Utilizing Conditions Mimicking Body Fluid (Grad. Sch. Eng., Nagoya Univ.) OHTSUKI, Chikara (09:40~10:30)
- 3H3-10 ATP Invited Lecture** Molecular Selection and Hybrid Materials: Molecular Information-Based Approach to Complexly Structured Nanomaterials (Kanagawa Univ..) JIN, Ren-hua (10:30~11:00)
- 3H3-13 ATP Invited Lecture** Development of a novel hydroxyapatite/collagen composite for clinical application (HOYA) HIRANO, Masahiro; SHOJI, Daisuke; SHIBASAKI, Mikio; KOZAKA, Yuko; MOCHIZUKI, Naomi; SHIOTANI, Shingo; KAWAMURA, Katsumi (11:00~11:30)

Chair: OHTSUKI, Chikara (11 : 30~12 : 00)

- 3H3-16 ATP Invited Lecture** Application of Mesocrystals to Energy-related Materials (Fac. Sci. Tech., Keio Univ.) IMAI, Hiroaki; OAKI, Yuya (11:30~12:00)

Sunday, March 24, PM

Chair: OHTSUKI, Chikara (13 : 00~14 : 10)

- 3H3-25 ATP Invited Lecture** Synthesis of Calcium Carbonate Hybrid Particles by Delayed Addition Method (Kyoto Inst. of Tech.) NAKA, Kensuke (13:00~13:30)
- 3H3-28 ATP Special Invited Lecture** Fabrication techniques of metal nano structures towards optical metamaterials (RIKEN; Hokkaido Univ.) TANAKA, Takuo (13:30~14:10)
- Chair: IYODA, Tomokazu (14 : 10~16 : 00)
- 3H3-32 ATP Invited Lecture** Design of protein assembly toward material sciences (Grad. Sch. Biosci. Biotech., Tokyo Tech) UENO, Takafumi (14:10~14:40)
- 3H3-35 ATP Keynote Lecture** Fabrication of nanostructure in the vicinity nanospace of solid surface by biomolecules (NAIST; Panasonic Corp.) YAMASHITA, Ichiro (14:40~15:30)
- 3H3-40 ATP Invited Lecture** Bottom-up synthesis of organic/inorganic composites with the aid of enzymes (Grad. Sch. Sci., Eng., Yamagata Univ.) UNUMA, Hidero (15:30~16:00)

Chair: YAMASHITA, Ichiro (16 : 00~18 : 00)

- 3H3-43 ATP Special Invited Lecture** High-speed and high-resolution AFM observation of biological samples (Sch. of Math. & Phys. Coll. of Sci. and Eng., Kanazawa Univ.) ANDO, Toshio; UCHIHASHI, Takayuki; KODERA, Noriyuki (16:00~16:40)
- 3H3-47 ATP Special Invited Lecture** Regular Structures of Polymer Surfaces for Biomimetics (Grad. Sch. Sci., Eng., Tokyo Tech) SERIZAWA, Takeshi (16:40~17:20)
- 3H3-51 ATP Special Invited Lecture** Development of Advanced Techniques of Electron Microscope Observation of Biomaterials with Ionic Liquids (Grad. Sch. Eng., Osaka Univ.) KUWABATA, Susumu; MOCHIZUKI, Eiko; TSUDA, Tetsuya (17:20~18:00)

Monday, March 25, AM

Chair: OKUMURA, Ko (9 : 40 ~12 : 10)

- 4H3-05 ATP Keynote Lecture** Light-driven alignment and morphology inductions in thin films (Grad. Sch. Eng., Nagoya Univ.) SEKI, Takahiro (09:40~10:30)
- 4H3-10 ATP Special Invited Lecture** Precise Control of Wettability

- and Friction Behavior of Soft Interfaces (IMCE, Kyushu Univ.) KOBAYASHI, Motoyasu; TAKAHARA, Atsushi (10:30~11:10)
- 4H3-14 ATP Invited Lecture** Rearrangement of bioactive saccharide with glycopolymers and application of them (Fac. Eng., Kyushu Univ.) MIURA, Yoshiko (11:10~11:40)
- 4H3-17 ATP Invited Lecture** Multi-functional hydrogels based on reversible sacrificial bond-toughness, self-healing, and shape memory (Grad. Sch. Adv. Life Sci., Hokkaido Univ.) HAQUE, Md. Anamul; SUN, Tao Lin; IHSAN Abu Bin; NAKAJIMA, Tasuku; KUROKAWA, Takayuki; GONG, Jian Ping (11:40~12:10)

Monday, March 25, PM

Chair: SEKI, Takahiro (13 : 00~13 : 30)

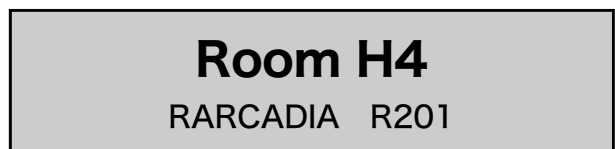
- 4H3-25 ATP Invited Lecture** Impressionist visions on wetting and natural composites – from liquid drops, bubbles, nacre to spider webs (Ochanomizu Univ.) OKUMURA, Ko (13:00~13:30)

Chair: SHIMOMURA, Masatsugu (13 : 30~16 : 10)

- 4H3-28 ATP Special Invited Lecture** Transformation to the society based on wisdom of nature in Shiga: An emerging from business and academic collaboration (Ask Nature Japan) NIREN, Takaaki (13:30~14:10)
- 4H3-32 ATP Special Invited Lecture** Green innovation (Grad. Sch. Environmental Studies, Tohoku Univ.) MAGAGI, Shunsuke (14:10~14:50)
- 4H3-36 ATP Special Invited Lecture** Nature Inspired Housing Materials -Snail and Hydrophilic Material- (LIXIL) ISU, Norifumi (14:50~15:30)
- 4H3-40 ATP Special Invited Lecture** Innovations Inspired by Nature (Sekisui Integrated Research Inc.) SANO, Kenzo (15:30~16:10)

(16 : 10~16 : 20)

- 4H3-44 Closing** (Chem. Res. Lab., Tokyo Tech) IYODA, Tomokazu (16:10~16:20)



Resource, Next Generation Energy and Environment

Friday, March 22, AM

Use of unutilized thermal energy

(9 : 20 ~9 : 40)

- 1H4-03** Opening Remarks (AIST) Asai, Yoshihiro (09:20~09:40)

Chair: INOUE, Kenji (9 : 40 ~12 : 00)

- 1H4-05 ATP Keynote Lecture** Introductory Talk: Thermal Harvesting Technology (AIST) Yase, Kiyoshi (09:40~10:30)
- 1H4-10 ATP Special Invited Lecture** High performance vacuum insulation materials and applications (Appliances Company, Panasonic Corporation) Uekado, Kazutaka (10:30~11:10)
- 1H4-14** Incubation Time (11:10~11:20)
- 1H4-15 ATP Invited Lecture** Conceptual Design and Research Task on Latent and Chemical Heat Storage Processes (KRI, Inc.) Sakai, Tsutomu (11:20~11:50)
- 1H4-18** Incubation Time (11:50~12:00)

Friday, March 22, PM

Chair: SEKO, Shinzo (13 : 10~15 : 30)

- 1H4-26 ATP Special Invited Lecture** Innovative polymeric thermal insulation materials - state of the arts (Dept of Chemical Engineering, Kyoto University) Ohshima, Masahiro (13:10~13:50)
- 1H4-30** Incubation Time (13:50~14:00)
- 1H4-31 ATP Special Invited Lecture** Trend of technologies for regenerating low quality (Dept. of Chem. Eng., Kyushu Univ.) Fukai, Jun (14:00~14:40)
- 1H4-35** Incubation Time (14:40~14:50)
- 1H4-36 ATP Invited Lecture** Development of in-plane type flexible thermoelectric device for waste heat recovery (Nagaoka University of Technology) Takeda, Masatoshi (14:50~15:20)
- 1H4-39** Incubation Time (15:20~15:30)

Chair: ASAI, Yoshihiro (15 : 30~16 : 50)

- 1H4-40 ATP Invited Lecture** Tubular Thermoelectric Generators for Waste Heat Recovery (ATRL, Panasonic) Kanno, Tsutomu (15:30~16:00)
- 1H4-43** Incubation Time (16:00~16:10)

- 1H4-44 ATP Invited Lecture** Printed Thermoelectric Convertors Fabricated on a Flexible Film (Flexible Electronics Research Center, AIST) Suemori, Kouji (16:10~16:40)  
**1H4-47** Incubation Time (16:40~16:50)

Saturday, March 23, AM

Diversification of Carbon Resources

(9 : 50 ~ 10 : 00)

- 2H4-06** Opening Remarks (Tokyo Tech) Hara, Michikazu (09:50~10:00)

Chair: HARA, Michikazu (10 : 00~11 : 30)

- 2H4-07 ATP Keynote Lecture** Lower Olefins Production Routes as Alternatives to Thermal Cracking of Naphtha (Chemical Resources Laboratory, Tokyo Institute of Technology) Tatsumi, Takashi (10:00~10:50)  
**2H4-12 ATP Special Invited Lecture** R&D for microbial production of biobased polyesters (RIKEN) Doi, Yoshiharu (10:50~11:30)

Saturday, March 23, PM

Chair: DOI, Yoshiharu (14 : 00~15 : 30)

- 2H4-31 ATP Special Invited Lecture** A Road Map of diversification of chemical feed-stock (Mitsubishi Chemical Group Science and Technology Research Center Inc.) Setoyama, Tohru (14:00~14:40)  
**2H4-35 ATP Special Invited Lecture** Development of processes for the production of biofuels and bio-based chemicals from lignocellulosic biomass by consolidated bioprocessing (Kobe University) Kondoh, Akihiko (14:40~15:20)  
**2H4-39** Incubation Time (15:20~15:30)

Chair: TOMISHIGE, Keiichi (15 : 30~16 : 20)

- 2H4-40 ATP Special Invited Lecture** Bio-based Chemicals towards Green Innovation (Biosciences and Biotechnology, Kyotogakuen University) Shimizu, Sakayu (15:30~16:10)  
**2H4-44** Incubation Time (16:10~16:20)

Chair: EBITANI, Kohki (16 : 20~17 : 00)

- 2H4-45 ATP Special Invited Lecture** Direct synthesis of value-added chemicals from biomass: challenge by solid catalysts (Tohoku University) Tomishige, Keiichi (16:20~17:00)

Chair: KOBORI, Yoshihiro (17 : 00~17 : 40)

- 2H4-49 ATP Special Invited Lecture** Utilization of Biomass-derived Materials using Heterogeneous Catalysts (Japan Advanced Institute of Science and Technology, School of Materials Science) Ebitani, Kouki (17:00~17:40)

Sunday, March 24, PM

(13 : 00~13 : 10)

- 3H4-25** Opening Remarks (Kyoto Univ.) ABE, Takeshi (13:00~13:10)

Chair: ABE, Takeshi (13 : 10~14 : 00)

- 3H4-26 ATP Keynote Lecture** Development of Large Scale Energy Storage System in NEDO (NEDO) HOSOI, Kei (13:10~14:00)

Chair: ISHIKAWA, Masashi (14 : 00~15 : 10)

- 3H4-31 ATP Special Invited Lecture** Sodium secondary battery using FSA-based ionic liquid (Sumitomo Electric Industries, Ltd.; Kyoto Univ.) INAZAWA, Shinji; NUMATA, Koma; ITANI, Eiko; FUKUNAGA, Atsushi; SAKAI, Shoichiro; NITTA, Koji; NOHIRA, Toshiyuki; HAGIWARA, Rika (14:00~14:40)

- 3H4-35 ATP Invited Lecture** Phase transition dynamics of lithium ion battery electrodes (Kyoto Univ.) Uchimoto, Yoshiharu; Orikasa, Yuki; Maeda, Takehiro; Koyama, Yukinori; Arai, Hajime; Murayama, Haruno; Tanida, Hajime; Matsubara, Eiichiro; Ogumi, Zempachi (14:40~15:10)

Chair: ABE, Takeshi (15 : 10~15 : 50)

- 3H4-38 ATP Special Invited Lecture** Cycle Characteristics of LiNi<sub>1/3</sub>Co<sub>1/3</sub>Mn<sub>1/3</sub>O<sub>2</sub> Positive Electrode Materials of Rechargeable Li-ion Cells Modified by Coating with Oxides (AIST, Kyoto Univ.) TATSUMI, Kuniaki; ARAKI, Kazuhiro; OKAMURA, Kazuhiro; SASAKI, Yuji; YANO, Akira; KIKUZONO, Yasuo; TAGUCHI, Noboru; TAKEUCHI, Tomonari; SAKAEBE, Hikari; OGUMI, Zempachi (15:10~15:50)

Chair: UCHIMOTO, Yoshiharu (15 : 50~17 : 00)

- 3H4-42 ATP Invited Lecture** Performance Enhancement of Electric Power Storage Devices by Optimizing Design of Electrode Interphase (Kansai Univ.) ISHIKAWA, Masashi; YAMAGATA, Masaki (15:50~16:20)

- 3H4-45 ATP Special Invited Lecture** High safe large lithium-ion battery (ELIY Power) FUKUNAGA, Takao; SUGIYAMA, Hideyuki;

- IGUCHI, Takayasu; HARA, Tomitaro; KAWAKAMI, Kiyomoto (16:20~17:00)

(17 : 00~17 : 10)

- 3H4-49** Closing Remarks (Kyoto Univ.) ABE, Takeshi (17:00~17:10)

Room H5

RARCADIA R202

Challenge for the emerging issues with new biotechnologies

Friday, March 22, PM

Biocatalyst: Can microorganisms solve the food crisis ?

Chair: MIYAMOTO, Kenji (13 : 00~17 : 20)

- 1H5-25** Opening Remarks (Keio Univ.) Miyamoto, Kenji (13:00~13:10)  
**1H5-26 ATP Special Invited Lecture** Perspective of research on the photosynthetic CO<sub>2</sub>-fixing enzyme, RuBisCO with a potential of solving the food crisis. (Grad. Sch. Biol. Sci., NAIST) Ashida, Hiroki (13:10~13:50)  
**1H5-30 ATP Invited Lecture** An engineering approach to the solution of the world food problem: Development of virus-resistant plants (Okayama Univ.) Sera, Takashi (13:50~14:20)  
**1H5-33** Incubation Time (14:20~14:30)  
**1H5-34 ATP Keynote Lecture** Organic hydroponics: A novel technology to visualize soil and rhizosphere (National Agriculture and Food Research Organization (NARO)) Shinohara, Makoto (14:30~15:20)  
**1H5-39 ATP Special Invited Lecture** Microbes create functional soil -application of microbial consortia- (Div. Appl. Life Sci., Grad. Sch. Agric.; Kyoto Univ.) Ogawa, Jun; Ando, Akinori (15:20~16:00)  
**1H5-43** Incubation Time (16:00~16:10)  
**1H5-44 ATP Invited Lecture** Analysis of microbial community in rhizosphere by organic hydroponics of rice plants (Grad. Sch. Bioagric. Sci., Nagoya Univ.) Asakawa, Susumu (16:10~16:40)  
**1H5-47 ATP Invited Lecture** A study on hydroponics with fertilizer made of solid organic material such as food residue emitted from shopping centers (Graduate School of Environmental Studies, Nagoya University) Takano, Masao; Aoyama, Chihiro (16:40~17:10)  
**1H5-50** Incubation Time (17:10~17:20)

Saturday, March 23, PM

Nanomedicine: Can nanotechnologies meet the unmet medical needs ?

(13 : 00~13 : 10)

- 2H5-25** Opening Remarks (Grad. Sch. Eng., Kyoto Univ.; Grad. Sch. Sci., The Univ. of Tokyo) Akiyoshi, Kazunari; Suga, Hiroaki (13:00~13:10)

Chair: SUGA, Hiroaki (13 : 10~15 : 40)

- 2H5-26# ATP Special Invited Lecture** Discovery & Development of Macrocytic Peptides (PeptiDream) Reid, Patrick C (13:10~13:50)  
**2H5-30 ATP Keynote Lecture** Development of Nanomedicine Based on Nucleic Acids: Current Status and Future Perspective (Grad. Sch. Pharm. Sci., Kyoto Univ.) Takakura, Yoshinobu (13:50~14:40)  
**2H5-35 ATP Special Invited Lecture** Targeting Delivery of Therapeutic Nucleotides to Antigen Presenting Cells through Dectin-1 (The University of Kitakyushu) Sakurai, Kazuo (14:40~15:20)  
**2H5-39** Incubation Time (15:20~15:40)

Chair: AKIYOSHI, Kazunari (15 : 40~17 : 10)

- 2H5-41 ATP Special Invited Lecture** Development in NMR-Based Bioimaging (Faculty of Science and Engineering, Doshisha Univ.) Aoyama, Yasuhiro (15:40~16:20)

- 2H5-45 ATP Special Invited Lecture** a synthetic engineering approach of nanomedicine (IIS, Univ. of Tokyo) Takeuchi, Shoji (16:20~17:00)

- 2H5-49** Incubation Time (17:00~17:10)

## Room P

EPOCH RITSUMEI 21 EPOCH HALL

Saturday, March 23, AM

(12 : 00~13 : 30)

## Energy

- 2PD-001** Highly efficient photochemical HCOOH production from CO<sub>2</sub> and water with nitride semiconductor (Advanced Technology Research Laboratory, Panasonic Corporation Department of Applied Physics, Tokyo University of Science) YOTSUHASHI, Satoshi; DEGUCHI, Masahiro; HASHIBA, Hiroshi; YAMADA, Yuka; OHKAWA, Kazuhiro
- 2PD-002** Ethanol production from CO<sub>2</sub> and water with nitride semiconductor (Advanced Technology Research Laboratory, Panasonic Corporation Department of Applied Physics, Tokyo University of Science) DEGUCHI, Masahiro; YOTSUHASHI, Satoshi; HASHIBA, Hiroshi; YAMADA, Yuka; OHKAWA, Kazuhiro
- 2PD-003** Development of CFRP Tanks for Hydrogen Station (JX Nippon Oil & Energy Corporation Central Technical Research Laboratory) NAKAGAWA, Kojiro; MINODA, Ai; OKAZAKI, Junji
- 2PD-004** Development of CFRP Tanks for Hydrogen Station "Study of Heating FW Method" (Central Technical Research Laboratory; JX Nippon Oil & Energy Corporation) MINODA, Ai; NAKAGAWA, Kojiro; OKAZAKI, Junji
- 2PD-005** Development of ion exchange membrane by radiation grafting for electro dialysis (Japan Atomic Energy Agency (JAEA)) CHEN, Jinhua; ASANO, Masaharu; MAEKAWA, Yasunari
- 2PD-006** Development of alicyclic polybenzimidazole-based polymer electrolyte membranes by radiation-induced grafting (JAEA) ASANO, Masaharu; MAEKAWA, Yasunari; PARK, June; TAKAYAMA, Toshio; KUDO, Kazuaki
- 2PD-007** Porous Polyimide-Silica Composite: A new thermal resistant flexible material (National Institute of Advanced Industrial Science and Technology (AIST) Nanosystem Research Institute Nanochemical Process Group) FUKUBAYASHI, Yumeto; YODA, Satoshi
- 2PD-008** Catalytic activities and structures of a "magic number" Pt<sub>13</sub> cluster and Pt<sub>12</sub> cluster (Tokyo Institute of Technology, Chemical Resources Laboratory; ICU) KITAZAWA, Hirokazu; ALBRECHT, Ken; IMAOKA, Takane; CHUN, Wang Jae; YAMAMOTO, Kimihisa
- 2PD-009** Amphiphilic block copolymer templated mesoporous silica films: preparation and anti-reflective properties. (41, Miyukigaoka, Tsukuba) TANABE, Hirofumi; MATSUURA, Mikiya; MAEKAWA, Kazuhiko; YAMAUCHI, Yusuke; TORAD, Nagy L; SUZUKI, Norihiro
- 2PD-010** Enhancement of Dye-Sensitized Photocurrents by Gold Nanoparticles: Effects of Dye-Particle Distance and Plasmon Coupling (IIS, The Univ. of Tokyo) KAWAWAKI, Tokuhisa; TAKAHASHI, Yukina; TATSUMA, Tetsu
- 2PD-011** Fabrication of Dye-Sensitized Solar Cells Composed of TiO<sub>2</sub> Nanoparticles, P25 and P90, and Electrolyte Containing Ionic Liquids (Josai Univ.) NOMURA, Sakiko; SATO, Mutsumi; MITSUKE, Koichiro
- 2PD-012** Development of PEFs with high activity and durability by controlling the nanostructure of electrocatalysts (Kyushu Univ.) HAYASHI, Akari; MINAMIDA, Yasuto; ZHAO, Xiaojing; SASAKI, Kazunari
- 2PD-013** Polymer-silica nanocomposite foams for low cost, high performance flexible thermal insulating materials (Nanosystem Research Institute, National Institute of Advanced Industrial Science and Technology) YODA, Satoshi; TAKEBAYASHI, Yoshihiro; SUE, Kiwamu; HAKUTA, Yukiya; OHARA, Motohiro; SUGETA, Tsutomu; OTAKE, Katsuto
- 2PD-014** Development of Low-temperature Driven Lithium Solid Electrolyte Using Supramolecular Chemistry (Graduate School of Science, Hiroshima University; Institute for Advanced Material Research, Hiroshima University) NISHIHARA, Sadafumi; KONNO, Daisukw; INOUE, Katsuya; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi
- 2PD-015** Synthesis of Platinum Nanoparticles by Microwave-induced Plasma in Liquid Process and Their in situ TEM Observation at High temperature (Graduate School of Engineering Hokkaido Univ.) ARAI, Shota; NARUSHIMA, Takashi; YONEZAWA, Tetsu
- 2PD-016** Syntheses and Evaluation of Zinc Oxide Nanorods Used for Photovoltaic Electrodes (Josai Univ.) MIUCHI, Yu; LE, Hong Quang; MITSUKE, Koichiro
- 2PD-017** Application to light-driven actuators of cross-linked liquid-crystalline polymers with photomobile property (Chemical Resources Laboratory, Tokyo Institute of Technology) MAMIYA, Jun-ichi; SASAKI, Ryuta; SHISHIDO, Atsushi
- 2PD-018** Development of Low-Temperature Sintering Technique for Dye-Sensitized Solar Cells Combined with Dielectric Barrier Discharge and UV Treatment (The Univ. of Tokyo) ZEN, Shungo; ONO, Ryo; ODA, Tetuji

## Resources, Environment, GSC

- 2PD-019** Dramatically improved catalytic activity of an artificial arylmalonate decarboxylase variants by rational design (Dept. Biosci. Inform., Keio Univ) ENOKI, Jyunichi; MIYAUCHI, Yusuke; YOSHIDA, Shosuke; MIYAMOTO, Kenji
- 2PD-020** Thermally driven asymmetric domino reaction catalyzed by a thermostable esterase and its variants (Dept. Biosci. Inform., Keio Univ) KUMON, Takashi; WADA, Reina; YOSHIDA, Shosuke; MIYAMOTO, Kenji
- 2PD-023** Application Technologies of the Ionic Semiconductor (1) - Energy Related Field - (Ion-Kagaku, Ltd.; Tokyo Metr. Coll. Ind. Tech.) KARINO, Hitoshi; TAMURA, Kenji
- 2PD-024** Application Technologies of the Ionic Semiconductor (2) - Food Processing Related Field - (Ion-Kagaku, Ltd.; Tokyo Metr. Coll. Ind. Tech.) KARINO, Hitoshi; TAMURA, Kenji
- 2PD-025** Application Technologies of the Aqueous of Stabilization Hypochlorous Acid (Tokyo Metr. Coll. Ind. Tech.) TAMURA, Kenji
- 2PD-026** Palladium Nanoparticles Captured in Microporous Polymers: Structural Analysis And Their Durability in Catalytic Usage. (Kawamura Institute of Chemical Research; Grad. Sch. Mat. Sci. Nara Inst. Sci. and Tech.) OGASAWARA, Shin; IIZUKA, Tatsuya; IKEDA, Atsushi; KATO, Shinji
- 2PD-027** Determination of Unpleasant Odorous in Southern Minke Whale Oil, and Their Application for Cosmetics Materials (Yamaguchi Prefectural Industrial Technology Institute, Yoshida-Tekkousyo) IWATA, Arihiro; OGAWA, Tomoki; HOSOYA, Natsuki; FUJINAGA, Atsushi; YOSHIDA, Seiichi
- 2PD-028** Highly Active Platinum Subnanocluster Catalysts in Hydrogenation Reactions (Tokyo Institute of Technology, Chemical Resources Laboratory) TAKAHASHI, Masaki; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 2PD-029** Bipyridine-bridged Periodic Mesoporous Organosilica as a Well-defined Solid Ligand (Toyota Central R&D Labs., Inc. ; JST/ACT-C) MAEGAWA, Yoshifumi; INAGAKI, Shinji
- 2PD-030** Preparation of Tribromosilane from Hydrogenation of Silicon Tetrabromide in a Fixed-bed Reactor (Univ. of Yamaguchi) TOMONO, Kazuaki; FURUYA, Hiroto; MIYAMOTO, Seiji; OGAWA, Takuro; SUMIMOTO, Michinori; KOMATSU, Ryuichi; NAKAYAMA, Masaharu
- 2PD-031** Development of selective separation and recovery system for precious metals with a pH stimuli-responsive polymer using ternary homogeneous liquid-liquid extraction (HoLLE) (Ibaraki University) SAITO, Shotaro; IGARASHI, Shukuro; TAKEMORI, Toshifumi; YOSHIDA, Norihiro; YAMAGUCHI, Hitoshi
- 2PD-032** Examination of Heat Island Countermeasure with the Automatic Carbonization System (Tokyo Metr. Coll. Ind. Tech.) TAMURA, Kenji
- 2PD-033** Porous diamond spherical particles for functional materials (Tokyo Univ. of Sci.) KONDO, Takeshi; KOBAYASHI, Mari; MORIMURA, Takuji; SAITO, Toru; KADOTA, Yasuhiko; YUASA, Makoto
- 2PD-034** The Gas Sensing Properties of Palladium Deposited Multi Walled Carbon Nanotubes Array (Ritsumeikan university) OMAE, Masaki; HASHISHIN, Takeshi; KOJIMA, Kazuo; TAMAKI, Jun
- 2PD-035** Silyltriflate-catalyzed conjugate addition of styrenes to  $\beta$ -silylenones (Kyoto University) OKAMOTO, Kazuhiro; TAMURA, Eisuke; OHE, Kouichi
- 2PD-036** Purification of Si Crystals by Dissolution and Recrystallization in a Na Melt (Univ. of Tohoku, IMRAM) MORITO, Haruhiko; KARAHASHI, Taiki; UCHIKOSHI, Masahito; ISSHIKI, Minoru; YAMANE, Hisanori
- 2PD-037** A New development for depolymerization of PET under pressurized microwave irradiation (Sojo Univ.) IKENAGA, Kazutoshi; ITO, Yusuke; YAMAMOTO, Masahiro; DEGURA, Tsuyoshi; KAMEYAMA, Takehiko
- 2PD-038** Environmentally-benign Synthesis of Isosorbide from Biomass-derived Material (National Institute of Advanced Industrial Science and Technology (AIST)) YAMAGUCHI, Aritomo; HIYOSHI, Norihito; MIMURA, Naoki; SATO, Osamu; SHIRAI, Masayuki
- 2PD-039** Scandium-Catalyzed Syndiotactic Polymerization of Styrene with Anisoles as Chain Transfer Agents (RIKEN; Saitama University) YAMAMOTO, Atsushi; OYAMADA, Juzo; NISHIURA, Masayoshi; HOU, Zhaomin

## Food, Water

- 2PD-040** Coenzyme A biosynthesis in the Archaea (Kyoto Univ.) ATOMI, Haruyuki; TOMITA, Hiroya; YOKOOJI, Yuusuke; ISHIBASHI, Takuya; IMANAKA, Tadayuki
- 2PD-041** Molecular breeding to increase hydrogen production potential of a hyperthermophile (Kyoto Univ.) KANAI, Tamotsu; TSUKAMOTO, Ryohei; YASUKOUCHI, Ayako; IMANAKA, Tadayuki; ATOMI, Haruyuki

## Transportation, Home

- 2PD-042** Analysis of a polypropylene adhesive interface and investigation of its adhesion mechanism (TOYOTA Central R&D Labs., INC) KIKUZAWA, Yoshihiro; TAKEUCHI, Hisato; MITSUOKA, Takuya; UMEMOTO, Kazuhiko

**2PD-043** Thermal Properties of Carbon Fiber/Polymer Interface Region (AIST) YILMAZ, Huseyin; IMAI, Yusuke; SATO, Kimiyasu; HOTTA, Yuji

## Correspondence, Electronics

**2PD-044** Large Scale Synthesis of Cu@Ag Core-Shell Nanoparticles and Estimation of Oxidation Resistance (Osaka Municipal Tech. Res. Inst.) YAMAMOTO, Mari; KASHIWAGI, Yukiyasu; SAITOH, Masashi; TAKAHASHI, Masanari; OHNO, Toshinobu; NAKAMOTO, Masami

**2PD-045** Formation of Transparent Conductive Oxide Electrode on GaN by Printing of ITO Nanoparticle Pastes (Osaka Municipal Tech. Res. Inst.; Osaka Univ.; OKUNO CHEM. IND. CO., LTD.) KASHIWAGI, Yukiyasu; KOIZUMI, Atsushi; TAKEMURA, Yasutaka; YAMAMOTO, Mari; SAITOH, Masashi; TAKAHASHI, Masanari; OHNO, Toshinobu; FUJIWARA, Yasufumi; MURAHASHI, Koichiro; OHTSUKA, Kuniaki; NAKAMOTO, Masami

**2PD-046** Synthesis and Photo- and Electroluminescent Properties of Phosphorescent Organoiridium(III) Complexes Bearing  $\pi$ -Extended Cyclometalated Ligands (Osaka Prefecture Univ.) IKAWA, Shigeru; YAGI, Shigeyuki; MAEDA, Takeshi; NAKAZUMI, Hiroyuki

**2PD-047** Development of the film with high gas barrier for flexible electronics substrates and low temperature process using ultraviolet method (Shibaura Institute of Technology) SONE, Shimpei; OHISHI, Tomoji

**2PD-048** Deposition of Sub-nanosized Metal Dot Arrays Prepared by Phenylazomethine Dendrimer (Chem. Res. Lab., Tokyo Ins Tech.) HIRANO, Isao; IMAOKA, Takane; YAMAMOTO, Kimihisa

**2PD-049** Excimer-based Electroluminescent Behavior of Polymer Light-emitting Diodes Doped with Cyclometalated Platinum(II) Complexes (Osaka Prefecture Univ.; Technology Research Institute of Osaka Pref.) SHIGEHIO, Tatsuya; YAGI, Shigeyuki; MAEDA, Takeshi; NAKAZUMI, Hiroyuki; SAKURAI, Yoshiaki

**2PD-050** Control of Molecular Orientation of 4,4'-Bis(carbazol-9-yl)biphenyl and its Application to the Suppression of the Roll-Off Characteristics in the Organic Light Emitting Diode (OPERA, Kyushu Univ.) KOMINO, Takashi; NOMURA, Hiroko; KOYANAGI, Takahiro; ADACHI, Chihaya

**2PD-051** Highly sensitive photoresist for screen plate using thiol-ene reaction (Osaka Pref. Univ.; Nakanuma Art Screen Co. Ltd) OKAMURA, Haruyuki; MURAMATSU, Keiko; NAKAJIRI, Hidesuki; SHIRAI, Masamitsu

**2PD-052** Synthesis of coating materials exhibiting metal-like luster of a variety of colors without containing any metals and examination of their features (SUMITOMO SEIKA CHEMICALS CO., LTD. Functional Chemicals Research Laboratory) MIYABARA, Ryo; NISHIOKA, Kiyoshi; FUJIMOTO, Nobutaka; YAMADA, Hikaru; KUWABARA, Junpei; KANBARA, Takaki

**2PD-053** Microwave-energy assisted quick and clean syntheses; Synthesis of metal complexes and visualization of reaction process by DFT method. (Minerva Light Laboratory L.L.C. ; Osaka Univ.) MATSUMURA, Takeko; MASUDA, Yoshitaka; YANAGIDA, Shozo

**2PD-054** De-protection and printed-electronics application of copolymers containing tetrahydropyranyl methacrylate (Shin-nakamura Chemical Co.; Department of Applied Chemistry, Osaka Prefecture University; Industrial Technology Center of Wakayama Prefecture; Nakanuma Art Screen Co.) TAKADA, Kohei; JINGUJI, Mayumi; IYO, Masami; MATOBA, Tetuya; SHIRAI, Masamitsu; OKAMURA, Haruyuki; YAMASHITA, Munenori; MAEDA, Takuya; MIYAZAKI, Takashi; MORI, Hajime; NAKAJIRI, Hideyuki; MURAMATSU, Keiko

**2PD-055** Quantitative Deformation Analysis of Flexible Films by Means of Surface Labeled Gratings (Chemical Resources Laboratory, Tokyo Institute of Technology) AKAMATSU, Norihisa; MAMIYA, Jun-ichi; KINOSHITA, Motoi; FUJIKAWA, Shigenori; TAKEYA, Junichi; SHISHIDO, Atsushi

**2PD-056** Surface Wettability Controllable Polyimides by UV Light Irradiation (Kurume National College of Technology) TSUDA, Yusuke

**2PD-057** Electroluminescence derived from a printed sol-gel thin film containing europium complex (Osaka Munic. Tech. Res. Inst., Osaka Electro-Commun. Univ.) FUJISAKI, Daiki; WATASE, Seiji; WATANABE, Mitsuru; MITAMURA, Koji; NISHIOKA, Noboru; MATSUKAWA, Kimihiro

## Medical care, Health care

**2PD-058** Evaluation of Nano-domain on Liposome Membrane and Its Application to ssRNA Recognition ~ Membranome (1) ~ (Osaka Univ.) SUGA, Keishi; UMAKOSHI, Hiroshi

**2PD-059** L-Pro-Catalyzed Aldol Reaction on Liposome Membrane ~ Membranome (2) ~ (Osaka Univ.) ISHIGAMI, Takaaki; FUJIWARA, Shimpei; UMAKOSHI, Hiroshi

**2PD-060** Fabrication of a bioluminescence assay device and its applications (EMTECH, AIST) KIM, sung bae

**2PD-061** Re-creation of intracellular environment in picoliter chambers (Sch. Eng., Nagoya Univ.) KOYAMA, Ryo; YASUI, Takao; KAJI, Noritada; BABA, Yoshinobu

**2PD-062** Preparation of Arrayed DNA Molecules for Super-Resolution Single-Molecule Imaging and Analysis (Sch. Eng., Nagoya Univ.)

YASAKI, Hiroto; ONOSHIMA, Daisuke; YASUI, Takao; KAJI, Noritada; BABA, Yoshinobu

**2PD-063** Development of biomolecules detection technology taking advantage of sensitive count of dispersive polymer-coated magnetic beads (Grad. School of Biosci. and Biotechnol., Tokyo Tech.; School of Med., Keio Univ.; JVC KENWOOD Corporation) SAKAMOTO, Satoshi; TSUJITA, Koji; HASEGAWA, Yuichi; ONO, Masayuki; HATAKEYAMA, Mamoru; KABE, Yasuaki; ITONAGA, Makoto; SUEMATSU, Makoto; HANDA, Hiroshi

**2PD-064** Monitoring of the Immuncytes cultured in collagen gel by the Impedance Measurement Method (Graduate School of Engineering, Tohoku Institute of Technology) ISHII, Ryusuke; SUZUKI, Yoshinori; KASAI, Shigenobu

**2PD-065** The concise synthesis of polypropionates by the stereoselective reductions, and application to the first total synthesis of septoriamycin A (Waseda Univ.) NAKAMURA, Tatsuya; HARACHI, Mio; HOSOKAWA, Seijiro

**2PD-066** Bio-penetrating near-infrared mechanoluminescence for artificial nerve system (National Institute of Advanced Industrial Science and Technology (AIST), Measurement Solution Research Center) TERASAKI, Nao; ZHENG, Liaoying; TERASAWA, Yujin; YAMADA, Hiroshi; XU, Chao-nan

**2PD-067** Creation of femtoliter-space devices to mimic intracellular environments (School of Engineering, Nagoya Univ. ; FIRST Research Center for Innovative Nanobiodevices, Nagoya Univ.) MAKINO, Masataka; YASUI, Takao; KAJI, Noritada; BABA, Yoshinobu

**2PD-068** Inhibition of Bacterial and Platelet adhesion by Heteroarm Star polymer coatings (NAIST Mater. Sci.) TOTANI, Masayasu; ANDO, Tsuyoshi; CHUANWU, Xi; TERADA, Kayo; KURODA, Kenichi; TANIHARA, Masao

**2PD-069** Novel-concept microarray MMV devised toward the revolution in the screening for drug discovery (Saitama Univ. Grad. Sch. Sci. Eng. Functional Materials Sci.) NISHIGAKI, Koichi; FUJII, Seiichi; KITAMURA, Koichiro; KINOSHITA, Yasunori; AHMED, Shamim; ANDO, Tsuyoshi; UCHIDA, Hidekazu; TAMATSU, Shota; WATANABE, Tsuyoshi; YAMAZAKI, Hitoshi; SHIRAI, Kosaku; TAKEI, Osamu

**2PD-070** Development of a novel peptide nucleic acid chromatography for rapid and visual diagnosis of influenza virus genome conserved sequence (Univ. of Osaka; The Institute for Scientific and Industrial Research) KAIHATSU, Kunihiro; SAWADA, Shinjiro; KATO, Nobuo

**2PD-071** Easily operable sugar sensor for prevention and management of diabetes (Kitami Institute of Technology) KANEKIYO, Yasumasa

**2PD-072** Accelerated and supersaturated dissolution of poorly water-soluble drugs by additive-free nano-sizing. (Tohoku Univ.; Suntory business Expert Co.Ltd) ARITA, Toshihiko; MANABE, Noriyoshi; KISHIGAMI, Mizue; NAKAHARA, Koichi

**2PD-073** Generation of Fluorescent Protein-Based Indicator for Citrate (Dept. Appl. Chem., Fac. Sci. Eng., Waseda Univ.) HONDA, Yuki; KIRIMURA, Kohtarō

**2PD-074** Synthesis of fluorescent dye-containing hyaluronic acids and *in vivo* kinetics of their self-assemblies. (Graduate School of Engineering, Kyoto University; Corporate R&D Headquarters, Canon Inc.) MIKI, Koji; INOUE, Tatsuhiko; KOBAYASHI, Yasuhito; NAKANO, Katsuya; MATSUOKA, Hideki; YAMAUCHI, Fumio; YANO, Tetsuya; OHE, Kouichi

**2PD-090** Development of non-labeling detection and collection of rare circulating tumor cells (Nagoya University FIRST Research Center for Innovative Nanobiodevices) OKAMOTO, Yukihiro; HASE, Tetsunari; TOKESHI, Manabu; HASEGAWA, Yoshinori; BABA, Yoshinobu

**2PD-091** Development of in situ powerless extraction method (Nagoya University FIRST Research Center for Innovative Nanobiodevices) OKAMOTO, Yukihiro; TOKESHI, Manabu; BABA, Yoshinobu

## Commodities for living

**2PD-075** Synthesis of titanium phosphate white pigments without the decomposition of sebum (Kyoto Pref. Univ.) ONODA, Hiroaki

**2PD-076** Chemical Extending of Polyethylene Chains by Formation of Polypseudorotaxane Structures with Pillar[5]arenes (Graduate School of Natural Science and Technology, Kanazawa University) OGOSHI, Tomoki; KAYAMA, Hitoshi; AOKI, Takamichi; YAMAGISHI, Tada-aki

# Room A1

CO-LEARNING HOUSE | C103

Asian International Symposium - Photo  
Chemistry -

Sunday, March 24, AM

Chair: Tetsuro Majima (10:00~10:40)

**3A1-07# Keynote Lecture** Ultrafast chemical exchange 2DIR spectro-

scopy: Probing thermal equilibrium dynamics (Korea Univ., Korea)  
Sungnam Park (10:00~10:40)

Chair: Eric Wei-Guang Diao (11 : 00~11 : 40)

**3A1-13<sup>#</sup> Invited Lecture** Photophysics and photoinduced insulator-metal transition in molecular conductors by using time-resolved electrical conductivity measurement (Hokkaido Univ.) Toshifumi Iimori (11:00~11:20)

**3A1-15<sup>#</sup> Invited Lecture** Single-molecule fluorescence imaging of TiO<sub>2</sub> photocatalytic reactions (Osaka Univ.) Takashi Tachikawa (11:20~11:40)

Chair: Dea Won Cho (11 : 40~12 : 00)

**3A1-17<sup>#</sup> Invited Lecture** Organic materials that liquefy upon light irradiation: Reversible crystal-liquid phase transition utilizing photoisomerization of azobenzene (National Institute of Advanced Industrial Science and Technology) Yasuo Norikane (11:40~12:00)

## Sunday, March 24, PM

Chair: Nobuhiro Ohta (13 : 00~13 : 40)

**3A1-25<sup>#</sup> Invited Lecture** Identification of Reaction Intermediates Using Transient Infrared Absorption (National Chiao Tung Univ., Taiwan) Yuan-Pern Lee (13:00~13:40)

Chair: Tatsuo Arai (13 : 40~14 : 20)

**3A1-29<sup>#</sup> Invited Lecture** Photochemical properties of photovoltaic cell and photofunctional materials (Yeungnam Univ., Korea) Dea Won Cho (13:40~14:20)

Chair: Naoto Tamai (14 : 30~15 : 10)

**3A1-34<sup>#</sup> Invited Lecture** Charge transport characterizations for dye-sensitized solar cells (National Chiao Tung Univ., Taiwan) Eric Wei-Guang Diao (14:30~15:10)

Chair: Yuan-Pern Lee (15 : 10~15 : 50)

**3A1-38<sup>#</sup> Keynote Lecture** Development of carbon quantum dots-based fluorescent probe suitable for living cell imaging (Tongji Univ., China) Yang Tian (15:10~15:50)

Chair: Takashi Karatsu (16 : 10~16 : 50)

**3A1-44<sup>#</sup> Invited Lecture** Dynamics of non-B DNA: G-quadruplex, i-motif and A-motif (Osaka Univ.) Jungkweon Choi (16:10~16:30)

**3A1-46<sup>#</sup> Invited Lecture** Spectroscopic analysis of interaction between water-soluble phosphorus porphyrins and proteins (Univ. of Miyazaki) Jin Matsumoto (16:30~16:50)

Chair: Masahide Yasuda (16 : 50~17 : 30)

**3A1-48<sup>#</sup> Invited Lecture** Probing of living system by time-resolved fluorescence imaging (Hokkaido Univ.) Kamlesh Awasthi (16:50~17:10)

**3A1-50<sup>#</sup> Invited Lecture** Development of silyl-photosensitizing drug for photodynamic therapy (Gunma Univ.) Hiroaki Horiuchi (17:10~17:30)

## Room A2 CO-LEARNING HOUSE I C104

### Physical Organic Chemistry -Structures and Properties-

#### Friday, March 22, AM

Chair: SHIRAHATA, Takashi (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(1A2-01, 1A2-02, 1A2-03, 1A2-04, 1A2-06)

**1A2-01** Synthesis and Optical Properties of Extended  $\pi$ -Conjugated Aromatics with *p*-(*p*-Dialkylaminostyryl)phenylethynyl Group (Shizuoka Univ.; Kwansai Gakuin Univ.; AIST) FUJIWARA, Yutaka; NAMIKAWA, Tomotaka; KAMADA, Kenji; KOBAYASHI, Kenji

**1A2-02** Synthesis and Properties of Extended  $\pi$ -Conjugated Macrocyclic Anthracene Derivatives Based on 2,7-Diborylanthracene as a Building Block (Shizuoka Univ.) TAKAKI, Yuta; OZAWA, Ryota; KOBAYASHI, Kenji

**1A2-03** Synthesis and FET Properties of 2,8-Bis(alkylthio)tetracene Derivatives (Shizuoka Univ. ; Univ. of Tsukuba ; NIMS ; Bruker axis) UMEDA, Yuri; YUGA, Haruki; HAYAKAWA, Ryoma; WAKAYAMA, Yutaka; YOZA, Kenji; KOBAYASHI, Kenji

**1A2-04\*** Imidazolium derivatives as efficient fluorophores based on quinoid structure and intramolecular hydrogen bonding (Nara Inst. Sci. Tech.) INOUCHI, Toshifumi; NAKASHIMA, Takuya; KAWAI, Tsuyoshi

**1A2-06** Bathochromic Shift by Hydrazone Formation of 1,3-Indandione Derivatives (Graduate School of Engineering, Chiba University) MATSUMOTO, Shoji; AOKI, Tatsuro; AKAZOME, Motohiro

Chair: KOBAYASHI, Kenji (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(1A2-08, 1A2-09, 1A2-10, 1A2-12, 1A2-13)

**1A2-08** Crystal structure and emission properties of triarylethenes having a pyrazine moiety (KCT; Kyushu Univ.) OKAWARA, Toru; SAJIMA, Takanori; MAEDA, Takeshi; TANOUE, Chisato; MITSUIKI, Kenta; HISAEDA, Yoshio; ISOMURA, Kazuaki; TAKEHARA, Kenji

**1A2-09** Preparation and properties of *N*-phenylindroquinoxalines (Nagoya Municipal Industrial Research Institute; Chemical Resources Laboratory, Tokyo Institute of Technology) HAYASHI, Hideki; KOIZUMI, Take-aki

**1A2-10\*** Syntheses and Optical Properties of Carbon- or Silicon-Bridged [7] Helicenes (The Univ. of Tokyo) OYAMA, Hiromi; NAKANO, Koji; NOZAKI, Kyoko

**1A2-12** Spectroscopic and Electron Transfer Reduction Properties of Coroneimide Derivatives (Keio Univ. ; Osaka Univ., ALCA, JST) IDA, Koichi; SAKAI, Hayato; OHKUBO, Kei; FUKUZUMI, Shunichi; HASOBE, Taku

**1A2-13** Structural and spectroscopic properties of quinoxaline unit-fused [7] helicene derivatives (Keio Univ.) SHINTO, Sho; SAKAI, Hayato; ARAKI, Yasuyuki; WADA, Takehiko; HASOBE, Taku

Chair: WAKAMIYA, Atsushi (11 : 20~12 : 30)

\* 11:10-11:20: interval for laptop PC connection.(1A2-15, 1A2-16, 1A2-17, 1A2-18, 1A2-19, 1A2-21)

**1A2-15** The synthesis, structure and properties of new 1,3-dithiole[5]radialene derivatives and their related compounds. (Graduate school of science and Engineering, Ehime University) MATSUDA, Takashi; UEDA, Masafumi; SHIRAHATA, Takashi; MISAKI, Yohji

**1A2-16** Synthesis and properties of 1,3-dithiole[n]dendralenes, in which furan spacer is inserted (Graduate School of Science and Engineering, Ehime University) WATANABE, Yuki; WATANABE, Miho; SHIRAHATA, Takashi; MISAKI, Yohji

**1A2-17** Synthesis and properties of 1,3-dithiole[5]dendralenes, in which thiophene spacer is inserted (Graduate school of science and Engineering, Ehime University) WATANABE, Miho; SHIMAMURA, Rika; SHIRAHATA, Takashi; MISAKI, Yohji

**1A2-18** Synthesis and properties of Oligothiophenes Integrated with Multiple Quinone-Methides (Graduate School of Science, Osaka University) SUZUKI, Takeshi; KURATA, Hiroyuki; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KUBO, Takashi

**1A2-19\*** Synthesis of Benzotrifuran and Benzotripyrrole Derivatives and Their Diverse Molecular Orientation (Univ. of Tokyo; JST-PRESTO) UEDA, Yasuyuki; CANTAGREL, Guillaume; TSUJI, Hayato; NAKAMURA, Eiichi

**1A2-21** Construction and electrochromic behavior of Dynamic Redox System Containing a perfluorobiphenyl skeleton (Hokkaido Univ.) SUZUKI, Takanori; TAMAOKI, Hitomi; KATOONO, Ryo; FUJIWARA, Kenshu

## Friday, March 22, PM

Chair: NISHIDA, Jun-Ichi (13 : 40~14 : 50)

\* 13:30-13:40: interval for laptop PC connection.(1A2-29, 1A2-30, 1A2-31, 1A2-32, 1A2-34)

**1A2-29** Construction of one-dimensional chain composed of organic radicals by utilizing electrostatic interaction (Graduate School of Science, Osaka University) UCHIDA, Kazuyuki; HIRAO, Yasukazu; KURATA, Hiroyuki; KUBO, Takashi

**1A2-30** Synthesis and Properties of Donor-Acceptor Segregated  $\pi$ -Electron System Possessing a Stacked Fluoroarene Moiety (Tokyo Metropolitan Univ.) SUGAWARA, Yuki; INABE, Ayumi; TAKASE, Masayoshi; NISHINAGA, Tohru; NOMURA, Kotohiro

**1A2-31** Synthesis of soluble precursor polymers with thermally removable groups and their application to organic transistors (Graduate School of Science and Engineering Yamagata Univ.) UEMURA, Taisuke; SATO, Ryoji; MAMADA, Masashi; KUMAKI, Daisuke; TOKITO, Shizuo

**1A2-32\*** Isomerically Pure anti-syn-Anthradithiophenes: Synthesis and Properties (Grad School of Science & Engineering, Yamagata Univ.; ROEL) MAMADA, Masashi; MINAMIKI, Tsukuru; KATAGIRI, Hiroshi; HONDA, Kota; TERAOKA, Ryo; TOKITO, Shizuo

**1A2-34\*** Synthesis, structures, and OFET characteristics of oligoazulene connected at 2,6-positions (Grad. Sch. Sci., Eng., Yamagata Univ.) YAMAGUCHI, Yuji; OGAWA, Keisuke; NAKAYAMA, Ken-ichi; OHBA, Yoshihiro; KATAGIRI, Hiroshi

Chair: ITAMI, Kenichiro (15 : 00~16 : 10)

\* 14:50-15:00: interval for laptop PC connection.(1A2-37, 1A2-39, 1A2-40, 1A2-41, 1A2-42, 1A2-43)

**1A2-37\*** Synthesis of carbon-bridged cycloparaphenylene derivatives (Institute for Chemical Research, Kyoto Univ.) IWAMOTO, Takahiro; KOJIMA, Mitsuru; KAYAHARA, Eiichi; YAMAGO, Shigeru

**1A2-39** Synthesis of Sulfur-Containing Cyclic  $\pi$ -Conjugated Compounds from Cyclic Organoplatinum Complexes (Institute for Chemical Research, Kyoto Univ.) KAYAHARA, Eiichi; ZHAI, Xue; YAMAGO, Shigeru

**1A2-40** Synthesis of Distorted 3D  $\pi$ -Conjugated Compound from a Cage-like Organoplatinum Complex and Its Physical Properties (Institute for Chemical Research, Kyoto Univ.) KAYAHARA, Eiichi; IWAMOTO, Takahiro;



- TAKAYA, Hikaru; SUZUKI, Toshiyasu; YAMAGO, Shigeru  
**1A2-41** Synthesis and Properties of Unsubstituted Cyclic Polyphenylene Compounds for the Bottom-up Synthesis of Carbon Nanotube Segment (Hirosaki Univ.) ASAI, Shintaro; SEKIGUCHI, Ryuta; ITO, Shunji; KAWAKAMI, Jun  
**1A2-42** A Synthetic Approach for the Construction of Zigzag-Type Carbon Nanotube Segment via Cyclic Polyphenylene Derivatives (Hirosaki Univ.) SEKIGUCHI, Ryuta; ASAI, Shintaro; ITO, Shunji; KAWAKAMI, Jun  
**1A2-43** Synthesis and properties of *s*-indacene derivatives (Kitasato Univ.) ENDO, Yasutaka; HASEGAWA, Masasi; MAZAKI, Yasuhiro

## PAH

Chair: ITO, Shunji (16 : 20~17 : 30)

- \* 16:10-16:20: interval for laptop PC connection.(1A2-45, 1A2-47, 1A2-49, 1A2-50, 1A2-51)  
**1A2-45\*** Structure-Property Relationships of Pyrrole-Fused Azacorones (Tokyo Metropolitan Univ.) NARITA, Tomoyuki; TAKASE, Masayoshi; NISHINAGA, Tohru; NOMURA, Kotohiro; MUELLEN, Klaus  
**1A2-47\*** Direct functionalization of hexa-peri-hexabenzocoronenes and its application (Department of Applied Chemistry, Graduate School of Engineering, Nagoya University) YAMAGUCHI, Ryuichi; HIROTO, Satoru; SHINOKUBO, Hiroshi  
**1A2-49** Diles-Alder cycloaddition of arynes to bisanthene: Syntheses and physical properties of  $\pi$ -extended bisanthenes (Graduate School of Science, Osaka University) KONISHI, Akihito; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KURATA, Hiroyuki; KUBO, Takashi  
**1A2-50** synthesis and property of pi extended [3.3.3]propellane aimed at honeycomb lattice structure (Department of Chemistry, Graduate School of Science, Osaka University) MIYAZAKI, Shogo; HIRAO, Yasukazu; KURATA, Hiroyuki; KUBO, Takashi  
**1A2-51** Thiophene-fused heptalene and its dianion (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.; WPI-ITbM, Nagoya Univ.) OSHIMA, Hiroya; FUKAZAWA, Aiko; YAMAGUCHI, Shigehiro

Chair: KAWASE, Takeshi (17 : 40~18 : 40)

- \* 17:30-17:40: interval for laptop PC connection.(1A2-53, 1A2-55, 1A2-56, 1A2-57, 1A2-58)  
**1A2-53\*** Synthesis of carbon nanotubes from cycloparaphenylenes (Grad Sch Sci, Nagoya Univ; WPI-ITbM, Nagoya Univ; FUJIFILM Corp.) OMACHI, Haruka; NAKAYAMA, Takuya; TAKAHASHI, Eri; SEGAWA, Yasutomo; ITAMI, Kenichiro  
**1A2-55** Synthesis of Pyrene-containing Carbon Nanoring (Grad Sch Sci, Nagoya Univ; WPI-ITbM, Nagoya Univ) YAGI, Akiko; GANDIKOTA, Venkataramana; SEGAWA, Yasutomo; ITAMI, Kenichiro  
**1A2-56** Bottom-up synthesis of finite (*n,0*)-zigzag single-wall carbonnanotubes (Tohoku Univ.) YAMASAKI, Takashi; HITOSUGI, Shunpei; ISOBE, Hiroyuki  
**1A2-57** Selective Synthesis of Finite Helical Single-Wall Carbon Nanotubes (Tohoku Univ.) MATSUNO, Taisuke; KAMATA, Sho; HITOSUGI, Shunpei; ISOBE, Hiroyuki  
**1A2-58** Molecular Bearing of Finite Carbon Nanotube and Fullerene in Ensemble Rolling Motion (Tohoku Univ.) HITOSUGI, Shunpei; YAMASAKI, Takashi; IIZUKA, Ryosuke; ISOBE, Hiroyuki

## Saturday, March 23, AM

Chair: OYAMA, Yousuke (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2A2-01, 2A2-02, 2A2-03, 2A2-04, 2A2-05)  
**2A2-01** Selective Synthesis of Dibenzo[*a,f*]phenazines through a Peculiar Rearrangement of 1,1'-Binaphthalene-2,2'-diamines and Their Properties (Graduate School of Engineering, Osaka University) TAKEDA, Youhei; OKAZAKI, Masato; MINAKATA, Satoshi  
**2A2-02** Selective Synthesis of Diazahelicenes through Intramolecular Oxidative Coupling of 1,1'-Binaphthalene-2,2'-diamines and Their Properties (Graduate School of Engineering, Osaka University) TAKEDA, Youhei; MARUOKA, Yoshiaki; MINAKATA, Satoshi  
**2A2-03** Redox Behavior of Poly(aniline sulfonic acid) (Osaka Univ.) AMAYA, Toru; ITO, Tsubasa; HIRAO, Toshikazu  
**2A2-04** Chiral Structural Properties of Polyaniline Derivatives Bearing Amino Acid Moieties (Osaka Univ) OHMURA, Satoshi; MORIUCHI, Toshiyuki; HIRAO, Toshikazu  
**2A2-05\*** Synthesis, structure, and fluorescent properties of 2,6-bis(arylsulfonyl) aniline derivatives (Graduate school of Science and Engineering Yamagata Univ.) BEPPU, Teruo; OHBA, Yoshihiro; KATAGIRI, Hiroshi

Chair: AMAYA, Toru (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(2A2-08, 2A2-09, 2A2-10, 2A2-11, 2A2-13)  
**2A2-08** Synthesis of D-A conjugated polymers having the disilane bridged bithiophene structure (Fac. Eng., Hiroshima Univ.) NAKASHIMA, Makoto; OHSHITA, Joji; MURAKAMI, Kazuya; TANAKA, Daiki  
**2A2-09** Synthesis and properties of silicon bridged bipyridyls (Hiroshima Univ.; Sumitomo Chemical Co. Ltd.) MURAKAMI, Kazuya; OHSHITA,

Joji; MIZUMO, Tomonobu; KOBAYASHI, Norifumi; HIGASHIMURA, Hideyuki

- 2A2-10** Studies on the Electronic States of Spirobi(triarylamines) linked with Carbon and Silicon Spiro Atoms (Univ. of Kyoto) KURATA, Ryohsei; SAKAMAKI, Daisuke; KAWAMOTO, Kensuke; ITO, Akihiro; TANAKA, Kazuyoshi  
**2A2-11\*** Synthesis and Optical Properties of Conjugated Molecules with Pentacoordinate Silicon Coordinated by Benzoquinonyl Ligands (Graduate School of Engineering, Kyoto University) TOKORO, Yuichiro; TANAKA, Kazuo; CHUJO, Yoshiki  
**2A2-13** Synthesis of Dithienosilole-Pyridine Alternate Polymers and Complex formation with Boron Compounds (Hiroshima University) TANAKA, Daiki; OHSHITA, Joji; MIZUMO, Tomonobu; OYAMA, Yousuke

## Saturday, March 23, PM

Chair: KITAMURA, Chitoshi (14 : 30~15 : 30)

- \* 14:20-14:30: interval for laptop PC connection.(2A2-34, 2A2-35, 2A2-36, 2A2-38, 2A2-39)  
**2A2-34** Synthesis and PL Behavior of New  $\pi$ -c-Conjugated Dinaphthothio-phenone Sulfone Oligomers (Dep. of Org. and Polym. Mat., Tokyo Inst. of Tech., Pure and Appl. Sci., U. of Tsukuba) NAMBU, Yoko; TAKATA, Toshikazu; KIJIMA, Masashi  
**2A2-35** Synthesis of a Fluorescent Macrocyclic Bearing Anthracene Rings and Amino Linkers (Tokyo Inst. of Tech., Chem. Res. Lab.) LI, Zhiou; YOSHIZAWA, Michito; AKITA, Munetaka  
**2A2-36\*** Thermoformable and Highly Emissive Conjugated Polymers Derived from Lacking pi-pi stacking (NIMS; Univ. of Tsukuba) SUGIYASU, Kazunori; PAN, Chengjun; TAKEUCHI, Masayuki  
**2A2-38** Design of D- $\pi$ -A type silafluorenes and their application to white light-emitting polymers (Grad. Sch. Sci. Tech., Kyoto Inst. Tech.) YAMATANI, Akinori; SHIMIZU, Masaki  
**2A2-39** Novel synthetic method and properties of azafluorenes (Graduate School of Science, Osaka University) TANAKA, Rina; MATSUMOTO, Kouzou; HIRAO, Yasukazu; KURATA, Hiroyuki; KUBO, Takashi

Chair: SUGIYASU, Kazunori (15 : 40~16 : 40)

- \* 15:30-15:40: interval for laptop PC connection.(2A2-41, 2A2-42, 2A2-43, 2A2-44, 2A2-45, 2A2-46)  
**2A2-41** Correlation between Torsional Deformation and C<sub>9</sub>-C<sub>10</sub> bond length in bis(spiroacridan)-substituted dihydrophenanthrenes (Hokkaido Univ.) WADA, Kazuhisa; YOSHIMOTO, Yasuyo; OHTA, Kenji; KAWAI, Hidetoshi; TAKEDA, Takashi; KATOONO, Ryo; FUJIWARA, Kenshu; SUZUKI, Takanori  
**2A2-42** Synthesis and Properties of Pyreno(4,5-d)furan, and -(4,5-d-9,10-d') difuran derivatives (Grad. School of Eng., Univ. of Hyogo) KOJIMA, Taketo; KITAMURA, Chitoshi; KAWASE, Takeshi  
**2A2-43** Synthesis and properties of acenaphtho[1,2-*j*]fluoranthene-4,5-dicarboxylic imides (Grad. School of Eng., Univ. of Hyogo) OZOE, Hiroaki; KITAMURA, Chitoshi; KAWASE, Takeshi  
**2A2-44** Extension of pi-conjugation by ring fusion reaction of phenanthrene derivatives (Department of Applied Chemistry, Graduated School of Engineering, Nagoya University) YOKOI, Hiroki; GOTO, Kiyohiko; HIROTO, Satoru; SHINOKUBO, Hiroshi  
**2A2-45** One pot synthesis of donor-acceptor type indole dimers (Department of Applied Chemistry, Graduate School of Engineering, Nagoya University) SHIGENO, Ami; HIROTO, Satoru; SHINOKUBO, Hiroshi  
**2A2-46** Synthesis of pi-expanded fluorubines through direct borylation of perylene bisimides (Department of Chemistry, Graduate School of Engineering, Nagoya University) ITO, Satoru; HIROTO, Satoru; SHINOKUBO, Hiroshi

Chair: KATOONO, Ryo (16 : 50~17 : 30)

- \* 16:40-16:50: interval for laptop PC connection.(2A2-48, 2A2-50)  
**2A2-48\*** Synthesis of Diindenopyrene Derivatives by Intramolecular Cyclization of Tetrakis(mesitylethynyl)naphthalene (Graduate School of Engineering Science, Osaka University) HIBI, Daijiro; KITABAYASHI, Kenichi; TAKEDA, Takashi; TOBE, Yoshito  
**2A2-50\*** Investigation of oxidative dimerization of hydroxy substituted oligoacenes (Department of Applied Chemistry, Graduate School of Engineering, Nagoya University) HIROTO, Satoru; KOYAMA, Yutaro; SHINOKUBO, Hiroshi

## Sunday, March 24, AM

Chair: HASEGAWA, Masashi (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3A2-01, 3A2-02, 3A2-03, 3A2-04, 3A2-05, 3A2-06)  
**3A2-01** Synthesis and Properties of Liquid Crystalline Materials Consisting of Planarized Triphenylborane Cores (Department of Chemistry, Graduate School of Science, Nagoya University; RCMS, Nagoya University; WPI-ITbM, Nagoya University) SHUTO, Ayumi; KUSHIDA, Tomokatsu; YAMAGUCHI, Shigehiro  
**3A2-02** Synthesis and Properties of Planarized Trityl Radical with a Tri-coordinated Borane Moiety (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya

- Univ.; WPI-ITbM, Nagoya Univ.) SHIRAI, Shusuke; KUSHIDA, Tomokatsu; YAMAGUCHI, Shigehiro
- 3A2-03** Development of Narrow-Bandgap Materials Containing Quasi-Planar Skeleton (Institute for Chemical Research, Kyoto Univ.; JST-PRESTO) NISHIMURA, Hidetaka; WAKAMIYA, Atsushi; MURATA, Yasujiro
- 3A2-04** Development of D- $\pi$ -A Type Green Dyes Containing Diketopyrrolopyrrole Unit as  $\pi$  Spacer (Institute for Chemical Research, Kyoto Univ.; JST-PRESTO) SHIMOGAWA, Hiroyuki; ENDO, Masaru; NAKAIKE, Yumi; WAKAMIYA, Atsushi; MURATA, Yasujiro
- 3A2-05<sup>#</sup>** Synthesis and Properties of  $\pi$ -Extended Bithiophene Derivatives Containing Difluoroboron 1,3-Diketones (Nagoya Institute of Technology) YISILAMU, Yilihamu; ONO, Katsuhiko
- 3A2-06** Poly(3-hexylthiophene-2,5-diyl) Derivatives Modified by Difluoroboron 1,3-Diketone Moieties at Both Edges (Nagoya Institute of Technology) KOBAYASHI, Takuji; ONO, Katsuhiko

Chair: TAKATA, Toshikazu (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3A2-08, 3A2-10, 3A2-11)
- 3A2-08\*** Fluorescence and Excited State Dynamics of  $\pi$ -Extended Phosphole Oxides at 3 Position (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.; WPI-ITbM, Nagoya Univ.; Dept. Chem., Munster Univ.) YAMAGUCHI, Eriko; FUKAZAWA, Aiko; FELDMANN, Andreas; KOSAKA, Youhei; USUI, Kousuke; YOKOGAWA, Daisuke; IRLE, Stephan; ERKER, Gerhard; YAMAGUCHI, Shigehiro
- 3A2-10** pH Responsive Dipyrin Derivative Bearing a Phosphate Unit (Faculty of Pure and Applied Sciences, University of Tsukuba) TAKIZAWA, Hiroyuki; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 3A2-11** Young Scholar Lectures of CSJ Development of Phosphole-Containing  $\pi$ -Electron Systems Based on Its Electron-Accepting Character (Graduate School of Science, Nagoya University) Fukazawa, Aiko

Chair: FUKAZAWA, Aiko (11 : 20~12 : 30)

- \* 11:10-11:20: interval for laptop PC connection.(3A2-15, 3A2-16, 3A2-17, 3A2-18, 3A2-19, 3A2-20)
- 3A2-15** Experimental and Theoretical Investigations on Circular Dichroism of Double-Helicenes (Graduate School of Engineering, Osaka Univ.) IKENOSAKO, Mina; NAKAI, Yoshito; MORI, Tadashi; FUKUHARA, Gaku; INOUE, Yoshihisa
- 3A2-16** Synthesis and chiroptical properties of chiral oligothiophene bridged by *pseudo*-ortho disubstituted[2,2]paracyclophanes (School of Science, Kitasato University) KOBAYAKAWA, Kousuke; HASEGAWA, Masashi; YOSHIDA, Jun; MATSUZAWA, Hideyo; MAZAKI, Yasuhiro
- 3A2-17** Synthesis of Helically Chiral Dienes with Conjugated Dienyl Skeleton (Catalysis Research Center, Hokkaido Univ.; Aichi Univ. of Edu.) OGASAWARA, Masamichi; OKAMURA, Takuya; NAKAJIMA, Hikaru; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu
- 3A2-18** Asymmetric Oxidation Utilizing Through-space Cooperative Effect of Rotaxane (Tokyo Institute of Technology) XU, Kun; NAKAZONO, Kazuko; TKATA, Toshikazu
- 3A2-19** Dynamic steric protection effect in rotaxane structure : effect of mobility of the wheel on the reaction rate on the axle (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) OHGATA, Yusuke; NAKAZONO, Kazuko; TAKATA, Toshikazu
- 3A2-20\*** Reversible Linear-Cyclic Polymer Topology Transformation utilizing [1]Rotaxane Linkage (Tokyo Institute of Technology) OGAWA, Takahiro; NAKAZONO, Kazuko; TAKATA, Toshikazu

## Sunday, March 24, PM

Chair: KUZUHARA, Daiki (13 : 40~14 : 40)

- \* 13:30-13:40: interval for laptop PC connection.(3A2-29, 3A2-30, 3A2-32, 3A2-34)
- 3A2-29** Synthesis and Properties of Near-IR Phthalocyanines Containing Group-15 Elements (Grad. Sch. Sci., Tohoku Univ.) KUSHIYA, Tomofumi; FURUYAMA, Taniyuki; KOBAYASHI, Nagao
- 3A2-30\*** Observation of Exceptionally Low-Lying Photoexcited States in Oxidized Forms of Multiple-Decker Phthalocyanines (Osaka Univ.) FUKUDA, Takamitsu; YAMAMOTO, Kazuaki; FUYUHIRO, Akira; ISHIKAWA, Naoto
- 3A2-32\*** Synthesis and Properties of Phthalocyanine Derivatives Absorbing in the Near-IR Region Using Main-Group Elements (Graduate School of Science, Tohoku Univ.) FURUYAMA, Taniyuki; SATOH, Koh; KOBAYASHI, Nagao
- 3A2-34** The synthesis of a phosphorus(V)-phthalocyanine and its aggregation behavior (National Institute for Materials Science) ISAGO, Hiroaki; FUJITA, Harumi; KAGAYA, Yutaka; HIROTA, Misako; SUGIMORI, Tamotsu

Chair: MAEDA, Chihiro (14 : 50~15 : 50)

- \* 14:40-14:50: interval for laptop PC connection.(3A2-36, 3A2-37, 3A2-38, 3A2-40, 3A2-41)
- 3A2-36** Synthesis of *meso-meso*-linked subporphyrin dimer (Graduate School of Science, Kyoto University) KITANO, Masaaki; OSUKA, Atsuhiko
- 3A2-37** Synthesis and Characterization of *meso*-(*o*-Substituted Aryl) Sub-

- porphyrins (Department of Chemistry, Graduate School of Science, Kyoto University) YOSHIDA, Kota; MORI, Hirotaka; OSUKA, Atsuhiko
- 3A2-38\*** Synthesis and Reactivity of Core-Modified [14]Triphyrins(2.1.1) (Graduate School of Materials Science, Nara Institute of Science and Technology, PRESTO, JST, CREST, JST) KUZUHARA, Daiki; SAKAKIBARA, Yuka; ARATANI, Naoki; YAMADA, Hiroko
- 3A2-40** Synthesis and properties of azaporphyrinoids (Department of Chemistry, Faculty of Science, Tohoku Univ.) HIROKAWA, Shoma; SHIMIZU, Soji; KOBAYASHI, Nagao
- 3A2-41** Synthesis of Expanded Phthalocyanines Using Uranyl Ion (Graduate school of Science, Tohoku Univ.) OGURA, Yosuke; FURUYAMA, Taniyuki; KOBAYASHI, Nagao

Chair: SHIMIZU, Soji (16 : 00~17 : 00)

- \* 15:50-16:00: interval for laptop PC connection.(3A2-43, 3A2-44, 3A2-45, 3A2-47)
- 3A2-43** Synthesis of Doubly N-Confused Hexaphyrin Bis-Metal Complex Containing Unsymmetrical Coordination Sites (Grad. Sch. Eng., Kyushu Univ.) NISHIMURA, Keiichi; FURUTA, Hiroyuki
- 3A2-44** Synthesis and conformational control of beta-functionalized hexaphyrins (Department of Chemistry, Faculty of Science, Kyoto University) ISHIDA, Shinichiro; HIGASHINO, Tomohiro; OSUKA, Atsuhiko
- 3A2-45\*** Moebius Antiaromatic Phosphorus Complexes of Expanded Porphyrins (Department of Chemistry, Graduate School of Science, Kyoto University) HIGASHINO, Tomohiro; OSUKA, Atsuhiko
- 3A2-47\*** Synthesis and Property of Carbazole-based Core-modified Porphyrins (Faculty of Science and Technology, Keio Univ.) MAEDA, Chihiro; MASUDA, Kotoki; YOSHIOKA, Naoki

Chair: FURUTA, Hiroyuki (17 : 10~18 : 30)

- \* 17:00-17:10: interval for laptop PC connection.(3A2-50, 3A2-52, 3A2-54, 3A2-55, 3A2-56, 3A2-57)
- 3A2-50\*** Methylation of [26]Hexaphyrin Palladium Complex (Graduate School of Science, Kyoto University) YONEDA, Tomoki; OSUKA, Atsuhiko
- 3A2-52\*** Skeletal recombination of N-fused pentaphyrin via bromination reaction (Graduate School of Pharmaceutical Sciences, Chiba University) SUZUKI, Masaaki; HOSHINO, Tyuji; NEYA, Saburo
- 3A2-54** Synthesis and Characterization of meso-Imidazolyl Expanded Porphyrins (Department of Chemistry, Graduate School of Science, Kyoto University) MORI, Hirotaka; OSUKA, Atsuhiko
- 3A2-55** Selective Mono- and Bis-Au(III) Metalation of Hexaphyrins and Synthesis and Characterization of Au(III)Ir(III) Heterobimetal Complex (Department of Chemistry, Graduate School of Science, Kyoto University) NAODA, Koji; MORI, Hirotaka; OSUKA, Atsuhiko
- 3A2-56** Direct Arylation of meso-Formyl Porphyrin and Its Application to Synthesis of a New Vinylene-bridged PorphyrinDimer (Graduate School of Science, Kyoto University) TOKUJI, Sumito; AWANE, Hiroyuki; YORIMITSU, Hideki; OSUKA, Atsuhiko
- 3A2-57** Synthesis and optical properties of chlorophyll derivatives having a pyridyl or polypyridyl substituent at the C3 position (Ritsumeikan Univ.) YAMAMOTO, Youhei; TAMIYAKI, Hitoshi

## Monday, March 25, AM

Chair: TAKASE, Masayoshi (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4A2-01, 4A2-02, 4A2-03, 4A2-04, 4A2-05)
- 4A2-01** Syntheses and Conformational Study of Oligothiazoles Based on Intramolecular Interaction (Graduate School of Materials Science, Nara Institute of Science and Technology) IMAMURA, Kazuhiko; YAMAMOTO, Kyohei; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 4A2-02** Conformation structures and photochromic properties of origo(2-phenylthiazole)s (Graduate School of Materials Science, Nara Institute of Science and Technology) YAMAMOTO, Kyohei; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 4A2-03** Synthesis of Mechanochromic 2,2'-Bis(spirodienone)-Bridged-3,3'-Bithiophene Derivatives Aimed at Multicolor Change (Graduate School of Science, Osaka University) NAKAMURA, Kazuto; KURATA, Hiroyuki; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KUBO, Takashi
- 4A2-04** Synthetic Study of Mechanochromic Polymer Incorporating with 2,2'-Bis(spirodienone)-bridged-3,3'-bithiophenes (Graduate School of Science, Osaka University) NISHIDA, Yuri; KURATA, Hiroyuki; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KUBO, Takashi
- 4A2-05\*** Control of the Mechanochromic Properties of Boron Ketoiminate-Based Oligomers (Graduate School of Engineering, Kyoto University) YOSHII, Ryosuke; TANAKA, Kazuo; CHUJO, Yoshiki

Chair: SUZUKI, Shuichi (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(4A2-08, 4A2-09, 4A2-10, 4A2-12, 4A2-13)
- 4A2-08** Synthesis of Boron Diiminate Derivatives with Aggregation-Induced Emission Property (Kyoto University) HIROSE, Amane; YOSHII, Ryosuke; TANAKA, Kazuo; CHUJO, Yoshiki
- 4A2-09** Synthesis and Properties of Novel  $\pi$ -Conjugated Compounds Based on Planar Chiral Tetrasubstituted [2.2]Paracyclophane (Graduate School of

Engineering, Kyoto University) GON, Masayuki; MORISAKI, Yasuhiro; CHUJO, Yoshiki

- 4A2-10\*** Synthesis of Heterofluorene Structures Containing Four-coordinated 13 Group Atoms (Univ. of Kyoto) MATSUMOTO, Takuya; TANAKA, Kazuo; CHUJO, Yoshiki
- 4A2-12** Synthesis and Optical Properties of Dithienostannole (Hiroshima Univ.) TANAKA, Daiki; OHSHITA, Joji; MIZUMO, Tomonobu; KOBAYASHI, Norifumi; HIGASHIMURA, Hideyuki
- 4A2-13** S-Pechmann Dyes: A Novel Electron-Accepting Scaffold for Organic Dyes (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; RCMS, Nagoya Univ.) ADACHI, Makoto; FUKAZAWA, Aiko; NAKAKURA, Ken; SAITO, Shohei; YAMAGUCHI, Shigehiro

Chair: MORISAKI, Yasuhiro (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(4A2-15, 4A2-17, 4A2-18, 4A2-19, 4A2-20)
- 4A2-15\*** Synthesis, Structure, and Electronic Properties of an o,p,o,p-tetraazacyclophane (Kyoto Univ.) SAKAMAKI, Daisuke; ITO, Akihiro; TANAKA, Kazuyoshi
- 4A2-17** Synthesis and Electronic Properties of hexaazabiphenylophanes (Kyoto Univ.) OMAE, Shin; ITO, Akihiro; TANAKA, Kazuyoshi
- 4A2-18** S-Pechmann and Physical Properties of a Trioxotriangulene Neutral Radical Having Alkyl Amino Groups (Osaka University; JST-CREST) MURAYAMA, Hirotaka; UEDA, Akira; MURATA, Tsuyoshi; MORITA, Yasushi
- 4A2-19** Synthesis and Properties Palladium Complexes Bis-coordinated by Nitronyl nitroxide-2-ide (Osaka City University, Graduate School of Science) YOKOI, Hiroyuki; ZHANG, Xun; SUZUKI, Shuichi; KOZAKI, Masatoshi; OKADA, Keiji
- 4A2-20** Synthesis and Properties of Group 11 Metal Complexes Coordinated by (Nitronyl Nitroxide)-2-ide Radical Anions (Osaka City University) TANIMOTO, Ryu; SUZUKI, Shuichi; KOZAKI, Masatoshi; OKADA, Keiji

### Monday, March 25, PM

Chair: HIRAO, Yasukazu (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(4A2-28, 4A2-29, 4A2-30, 4A2-31, 4A2-32, 4A2-33)
- 4A2-28** Conformational Locking of a Twisted Tetrasubstituted Alkene via in situ Modification within a Self-Assembled Coordination Cage (Grad. School of Engineering, The Univ. of Tokyo) TAKEZAWA, Hiroki; MURASE, Takashi; FUJITA, Makoto
- 4A2-29** Structural Control of Phenolphthalein via Inclusion in a Self-Assembled Coordination Cage (Grad. School of Engineering, The Univ. of Tokyo) AKIBA, Shouta; TAKEZAWA, Hiroki; MURASE, Takashi; FUJITA, Makoto
- 4A2-30** A spherical hollow structure assembled from a tetrapodal adamantane bearing carbazole branches (Tokushima Bunri University) TOMINAGA, Masahide; YONETA, Tetsuro; OHARA, Kazuaki; YAMAGUCHI, Kentaro; AZUMAYA, Isao
- 4A2-31** Synthesis, structure and properties of coordination polymers with ligands linked by sulfonamide group (Tokushima Bunri University) KATAGIRI, Kosuke; SAKAI, Takahiro; MASU, Hyuma; TOMINAGA, Masahide; AZUMAYA, Isao
- 4A2-32** Construction of the molecular capsules using tridentate ligand having aromatic sulfonamide moieties (Tokushima Bunri University) SAKAI, Takahiro; KATAGIRI, Kosuke; TOMINAGA, Masahide; AZUMAYA, Isao
- 4A2-33** VCD Analysis Toward Configuration of the all Possible Synthetic Isomers of lipid signal transduction inhibitor, D609 (Graduate School of Life Science, Hokkaido University) KATO, Mikako; HAMMAM, Mostafa; TANIGUCHI, Tohru; MONDE, Kenji

Chair: NISHINAGA, Tohru (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(4A2-35, 4A2-36, 4A2-37, 4A2-38, 4A2-39)
- 4A2-35<sup>#</sup>** Selective Synthesis and Properties of Substituted Naphthylene Macrocycles (Grad. Sch. Sci., Tohoku Univ.) XUE, Jing; NAKAMURA, Yuta; NAKANISHI, Waka; ISOBE, Hiroyuki
- 4A2-36** Synthesis and structural features of mesityl substituted anthracene-diacetylene cyclic oligomers (Okayama Univ. of Science) YOSHIKAWA, Manami; IWANAGA, Tetsuo; TOYOTA, Shinji
- 4A2-37** Synthesis and characterization of a conjugated macrocyclic compound containing a carborane cage (Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental University) IHHAMA, Shotaro; FUJII, Shinya; KAGECHIKA, Hiroyuki
- 4A2-38** Formation of Supramolecular Assemblies Comprising Planar Charged Species (College of Pharmaceutical Sciences, Ritsumeikan University) MAEDA, Hiromitsu; KOBAYASHI, Makoto
- 4A2-39\*** Zwitterion-Based Dynamic Covalent Polymers (College of Pharmaceutical Sciences, Ritsumeikan University) OI, Wataru; KOMATSU, Harunobu; MAEDA, Hiromitsu

Chair: IWANAGA, Tetsuo (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(4A2-42, 4A2-43, 4A2-44, 4A2-45, 4A2-46, 4A2-47)

- 4A2-42** Synthesis and Characterization of macrocyclic compounds based on 2,5-bis(2-pyrrolyl)thiophene scaffold (Saitama University, Graduate School of Science and Engineering) SHIBA, Haruaki; FUJIWARA, Takashi; NAGASAWA, Akira; SESSLER, J.L.; ISHIMARU, Yoshihiro
- 4A2-43** Synthesis and oxidation behavior of macrocyclic compounds based on 2,5-bis(2-pyrrolyl)thiophene scaffold (Saitama University, Graduate School of Science and Engineering) SHIMOYAMA, Naoyuki; FUJIWARA, Takashi; NAGASAWA, Akira; SESSLER, J.L.; ISHIMARU, Yoshihiro
- 4A2-44** Synthesis and properties of sexithiophene-bridged cage-shaped molecule based on two trithienylmethanes (Graduate School of Science, Osaka University) ADACHI, Kazuhiko; KURATA, Hiroyuki; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KUBO, Takashi
- 4A2-45** pi-dimerization of radical cations of thiophene-pyrrol oligomers (Graduate School of Science and Engineering, Tokyo Metropolitan University) KAGEYAMA, Takuya; KOIZUMI, Masahide; TAKASE, Masayoshi; NOMURA, Kotohiro; NISHINAGA, Tohru
- 4A2-46** Synthesis and properties of cyclo[8] (thienylene-ethynylene) (Tokyo Metropolitan University, Kitasato University) SHIMIZU, Hideyuki; HAQUE, Tahmina; NOMURA, Kotohiro; HASEGAWA, Masashi; IYODA, Masahiko
- 4A2-47** Properties of Planar COT Derivatives Annulated with Dithienothiophene Units (Tokyo Metropolitan University) AITA, Kazunari; OHMAE, Takeshi; TAKASE, Masayoshi; NOMURA, Kotohiro; NISHINAGA, Tohru

## Room A3

### CO-LEARNING HOUSE I C105

### Physical Organic Chemistry -Structures and Properties-

#### Friday, March 22, AM

Chair: KUBO, Yuji (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(1A3-01, 1A3-02, 1A3-03, 1A3-04, 1A3-05, 1A3-06)
- 1A3-01** Synthesis of aza-BODIPY analogues bearing a pyrrolopyrrole unit (Graduate School of Science, Tohoku Univ.) IINO, Taku; SHIMIZU, Soji; KOBAYASHI, Nagao
- 1A3-02** Synthesis and Properties of Core Modified Aza-BODIPY Analogues (Faculty of Science, Tohoku University) NOGUCHI, Daiki; FURUYAMA, Taniyuki; KOBAYASHI, Nagao
- 1A3-03** Synthesis and optical properties of boron-bridged ladder-type diketopyrrolopyrrole derivatives (Univ. of Tsukuba TIMS) YAMAGATA, Takuya; KUWABARA, Junpei; KANBARA, Takaki
- 1A3-04** Film Fabrication Technology using *N*-Boc 2,5-Diarylprrroles in Solution Processing (Nagoya Institute of Technology, Institute for Molecular Science, Tokyo Institute of Technology) IMAEDA, Yuta; HIRANO, Shinji; TOMURA, Masaaki; NISHIDA, Jun-ichi; YAMASHITA, Yoshiro; ONO, Katsuhiko
- 1A3-05** Synthesis and Optical Properties of N2O2-type BODIPY Derivatives Bearing Oligothiophene Units (Faculty of Pure and Applied Sciences, University of Tsukuba) TAKIZAWA, Hiroyuki; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 1A3-06** Synthesis of Pyrazine-Fused BODIPY Oligomers (Department of Applied Chemistry, Graduate School of Engineering, Nagoya University) WACHI, Naruhiko; ODA, Kazuma; HIROTO, Satoru; SHINOKUBO, Hiroshi

Chair: SHINOKUBO, Hiroshi (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(1A3-08, 1A3-09, 1A3-10, 1A3-11, 1A3-12)
- 1A3-08** Synthesis and Photovoltaic Properties of Difluoroboron Diketonate Dyes with Triphenylamine Moieties (Nagoya Institute of Technology) MIZUNO, Yosuke; ONO, Katsuhiko
- 1A3-09** Synthesis of Boron-dibenzopyrromethenes with Cyanoacetic Acid Moieties (Tokyo Metropolitan University, NIPPON KAYAKU) EGUCHI, Daichi; MATSUMOTO, Asaki; WATANABE, Kazuki; NISHIYABU, Ryuhei; SHIGAKI, Koichiro; KANEKO, Masayoshi; KUBO, Yuji
- 1A3-10** Physical Properties of Tetrathiafulvalene-1,3-dithiolethide Derivatives and Their Application to Dye Sensitizer for Dye-Sensitized Solar Cells (Fac. of Eng. and Grad. Sch. of Sci. and Tech., Shizuoka Univ.) UEDA, Kazumasa; KUSANAGI, Hiroki; NANBO, Hiroki; OGI, Kenta; KONNO, Akinori
- 1A3-11<sup>#</sup>** Structural Modification in Thienocarbazole Dyes for Improvement of Dye-Sensitized Solar Cell Performances (WPI-AIMR, Tohoku University) ZHAO, Jian; JIN, Tianan; ISLAM, Ashraf; ASAO, Naoki; HAN, Liyuan; YAMAMOTO, Yoshinori
- 1A3-12\*** Novel n-Type Photoelectric Conversion Dye for Organic Photovoltaics (RIKEN, ASI) ENOZAWA, Hideo; AKAIKE, Kouki; KAJITANI, Takashi; KOIZUMI, Mari; KOSAKA, Atsuko; HASHIZUME, Daisuke; FUKUSHIMA, Takanori

Chair: NISHIDA, Jun-ichi (11 : 20~12 : 30)

- \* 11:10-11:20: interval for laptop PC connection.(1A3-15, 1A3-16, 1A3-17, 1A3-19, 1A3-20, 1A3-21)
- 1A3-15** Electronic Properties of a New  $\pi$ -Bridged TTF Dimer (AIST) SONODA, Yoriko; SHIMOI, Yukihiko; KANESATO, Masatoshi
- 1A3-16** Design and Function of Organic Semiconductors Based on Phthalocyaninato-Polysiloxane (1): Effect of Peripheral Side Chains on Polymerization Behavior (Osaka University, The University of Tokyo) YONEDA, Satoru; SAKURAI, Tsuneaki; NAKAYAMA, Toru; SAEKI, Akinori; SEKI, Shu
- 1A3-17\*** Design and Function of Organic Semiconductors Based on Phthalocyaninato-Polysiloxane (2): Characteristic Changes of Semiconductivity upon Mixing with Electron-Accepting Molecules (Osaka University, The University of Tokyo) SAKURAI, Tsuneaki; YONEDA, Satoru; NAKAYAMA, Toru; SAEKI, Akinori; SEKI, Shu
- 1A3-19** Structures and properties of molecular conductors based on DT-TTF derivatives substituted with ethylenediseleno groups (Graduate school of science and Engineering, Ehime University) FURUTA, Keisuke; SHIRAHATA, Takashi; MISAKI, Yohji
- 1A3-20** Structures and Properties of Purely Organic Superconductor (EtD-TET)(TCNQ) (Ehime University; Tokyo Institute of Technology) SHIRAHATA, Takashi; HIBARA, Yasuhiro; FURUTA, Keisuke; KAWAMOTO, Tadashi; MORI, Takehiko; MISAKI, Yohji
- 1A3-21** Conductive Properties of Gold Nanoparticle-Diarylethene Derivative Networks (Grad. School of Eng., Kyoto Univ., JST PRESTO) NAKAMURA, Tsukuru; HIGASHIGUCHI, Kenji; MATSUDA, Kenji

## Friday, March 22, PM

Chair: JIN, Tienan (13 : 40~14 : 40)

- \* 13:30-13:40: interval for laptop PC connection.(1A3-29, 1A3-31, 1A3-32, 1A3-33, 1A3-34)
- 1A3-29\*** Application of Thermally Activated Delayed Fluorescence for Efficient Organic Light-Emitting Diodes and Molecular Design Using Phenoxazine Donor (Center for Organic Photonics and Electronics Research, Kyushu University) TANAKA, Hiroyuki; SHIZU, Katsuyuki; MIYAZAKI, Hiroshi; ADACHI, Chihaya
- 1A3-31** Construction of Photoelectric Conversion Molecular Systems Composed of 1,3-Bis(2-pyridylimino)isoindolate Platinum Complexes as Triplet Photosensitizer (Osaka City University, and Shizuoka University.) MATSUMOTO, Yuma; SUZUKI, Shuichi; KOZAKI, Masatoshi; MURAMATSU, Youhei; KONNO, Akinori; OKADA, Keiji
- 1A3-32** Synthesis, Properties, and Electronic Device Functions of Electron-Accepting Molecules end-capped with Solubilized Cyclic Imide Derivatives. (The Institute of Scientific and Industrial Research, Osaka Univ.) JINNAI, Seiho; IE, Yutaka; ASO, Yoshio
- 1A3-33** Synthesis, Properties, and Photovoltaic Performances of p-Type Semiconducting Polythiophenes Having Fluoroether Group (ISIR, Osaka Univ.) WANG, Yi; IE, Yutaka; ASO, Yoshio
- 1A3-34** Low Bandgap D-A Copolymers Based on Dioxocyclopentene-Annulated Thiophenes as Acceptor Units: Synthesis, Properties, and Photovoltaic Performances (ISIR, Osaka Univ.) KOU, Kenmei; IE, Yutaka; ASO, Yoshio

Chair: OKAMOTO, Toshihiro (14 : 50~16 : 00)

- \* 14:40-14:50: interval for laptop PC connection.(1A3-36, 1A3-38, 1A3-39, 1A3-40, 1A3-42)
- 1A3-36\*** Pyrene End-capped Oligothiophene for Organic Field Effect Transistors (WPI-AIMR, Tohoku University) ONIWA, Kazuaki; ABE, Yuki; JIN, Tienan; SHIMOTANI, Hidekazu; TANIGAKI, Katsumi; ASAO, Naoki; YAMAMOTO, Yoshinori
- 1A3-38\*** Cyclopenta-fused polycyclic aromatic hydrocarbons as highly balanced ambipolar semiconductors in thin film organic field effect transistors (WPI-AIMR, Tohoku University) ZHANG, Xu; ONIWA, Kazuaki; JIN, Tienan; THANGAVEL, Kanagasekaran; SHIMOTANI, Hidekazu; ASAO, Naoki; TANIGAKI, Katsumi; YAMAMOTO, Yoshinori
- 1A3-39** Organic field effect transistor properties of rubrene derivatives (Graduate School of Science, Tohoku University; WPI Advanced Institute for Materials Research, Tohoku University) TAKANO, Yoichi; ONIWA, Kazuaki; IKEDA, Susumu; SHIMOTANI, Hidekazu; TANIGAKI, Katsumi; JIN, Tienan; ASAO, Naoki; YAMAMOTO, Yoshinori
- 1A3-40\*** Fabrication of organic transistors by solution process using liquid crystallinity and evaluation of the transistors (Tokyo Inst. of Tech.) IINO, Hiroaki; USUI, Takayuki; HANNA, Jun-ichi
- 1A3-42\*** Synthesis of M (M = Zn(II), Rh(III)) Porphyrin-imide Dyads connected to Single-Walled Carbon Nanotubes for Two Terminal Wired Single Molecular Diodes (Graduate School of Science, Osaka Univ.) MURNI, Handayani; GODA, Shun; TANAKA, Hirohumi; TANAKA, Daisuke; OGAWA, Takuji

Chair: TSUJI, Hayato (16 : 10~17 : 10)

- \* 16:00-16:10: interval for laptop PC connection.(1A3-44, 1A3-45, 1A3-46, 1A3-48)
- 1A3-44** Crystal Morphology and FET Properties of 1,3-Diphosphacyclobutane-2,4-diyls (Tokyo Institute of Technology) ITO, Shigekazu; KOBAYASHI, Makoto; NGO, Thang Thi Thu; UETA, Yasuhiro;

MIKAMI, Koichi; NISHIDA, Jun-ichi; YAMASHITA, Yoshio

- 1A3-45** Study on Terminal Functional Groups for Solution-processable-type Organic Semiconductor Based on Carbonyl-bridged Thiazole Fused Ring System and Properties of the Compounds. (The Institute of Scientific and Industrial Research, Osaka Univ.) SATO, Chihiro; IE, Yutaka; ASO, Yoshio
- 1A3-46\*** Aggregated structure and charge transporting properties of a series of chalcogenophene-containing fused V-shaped pi-electronic cores (The Institute of Scientific and Industrial Research, Osaka University) OKAMOTO, Toshihiro; MITSUI, Chikahiko; YAMAGISHI, Masakazu; MATSUSHITA, Takeshi; NAKAHARA, Katsumasa; MIWA, Kazumoto; SOEDA, Junshi; SATO, Hiroyasu; YAMANO, Akihito; UEMURA, Takafumi; TAKEYA, Junichi
- 1A3-48\*** Creation and charge transporting properties of new alkylated dinaphthofuran V-shaped pi-conjugated materials (The Institute of Scientific and Industrial Research, Osaka University) NAKAHARA, Katsumasa; MITSUI, Chikahiko; OKAMOTO, Toshihiro; YAMAGISHI, Masakazu; UENO, Takanari; TANAKA, Yuji; YANO, Masafumi; HIROSE, Yuri; SOEDA, Junshi; MATSUSHITA, Takeshi; SATO, Hiroyasu; YAMANO, Akihito; UEMURA, Takafumi; TAKEYA, Junichi

Chair: IE, Yutaka (17 : 20~18 : 40)

- \* 17:10-17:20: interval for laptop PC connection.(1A3-51, 1A3-53, 1A3-55, 1A3-56, 1A3-57)
- 1A3-51\*** Structure-property relationship among a series of chalcogenophene-containing V-shaped pi-conjugated molecules with high carrier mobility (The Institute of Scientific and Industrial Research, Osaka University) MITSUI, Chikahiko; OKAMOTO, Toshihiro; YAMAGISHI, Masakazu; MATSUSHITA, Takeshi; NAKAHARA, Katsumasa; HIROSE, Yuri; SOEDA, Junshi; SATO, Hiroyasu; YAMANO, Akihito; UEMURA, Takafumi; TAKEYA, Junichi
- 1A3-53\*** High-Pressure Chemistry of  $\pi$ -Conjugated Systems: Discrimination of Hydrostatic Pressure and Mechanical Grinding (Graduate School of Science, Nagoya University; RCMS, Nagoya University; WPI-ITbM, Nagoya University; JST-PREST; NIMS; AIST; RIGAKU Co.; JEOL RESONANCE Inc.) NAGURA, Kazuhiko; SAITO, Shohei; YUSA, Hitoshi; YAMAWAKI, Hiroshi; HUIJIHISA, Hiroshi; SATO, Hiroyasu; SHIMOIKEDA, Yuichi; YAMAGUCHI, Shigehiro
- 1A3-55** meso-beta Doubly Linked Porphyrin Dimers as Novel Semiconductor Materials for Organic Thin-Film Solar Cell (The University of Tokyo, RIKEN, Osaka University, Kyoto University) TANAKA, Seiya; AKAIKE, Kouki; SAKURAI, Tsuneaki; SAEKI, Akinori; SEKI, Shu; OSUKA, Atsuhiko; AIDA, Takuzo
- 1A3-56** Quantitative Tuning of the Electronic Energy Level for High Efficient Organic Photovoltaic Cells Using Benzodifuran Derivatives (Department of Chemistry, School of Science, The University of Tokyo) OIKI, Motoharu; TANAKA, Hideyuki; TSUJI, Hayato; NAKAMURA, Eiichi
- 1A3-57\*** RGB triple-color emissions from a single luminophore (Department of Chemistry, Graduate School of Science, Nagoya University; Research Center for Materials Science, Nagoya University; Institute of Transformative Bio-Molecules (WPI-ITbM), Nagoya University; PREST, Japan Science and Technology Agency) SAITO, Shohei; YUAN, Chunxue; CAMACHO, Christopher; KOWALCZYK, Tim; IRLE, Stephan; YAMAGUCHI, Shigehiro

## Saturday, March 23, AM

Chair: HASOBE, Taku (9 : 00~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2A3-01, 2A3-02, 2A3-03, 2A3-04, 2A3-05, 2A3-06)
- 2A3-01** Synthesis and conformational analysis of novel Nickel *N,N'*-bisporphyrilurea oligomer (Ochanomizu Univ.) MATSUMURA, Mio; KANEKO, Tomoyo; MURANAKA, Atuya; UCHIYAMA, Masanobu; HASHIZUME, Daisuke; MASU, Hyuma; AZUMAYA, Isao; KAGECHIKA, Hiroyuki; TANATANI, Aya
- 2A3-02** Control of the dynamic structure of the pyridinophanes by complexation with zinc porphyrin (Department of Applied Chemistry, Kyushu Institute of Technology) TAURA, Yuuki; MORIGUCHI, Tetsuji; ARAKI, Koji; TSUGE, Akihiko
- 2A3-03** Synthesis and Properties of Resorcinol-Bridged Porphyrin Dimers Through Catalyst-Free Aromatic Nucleophilic Substitution Reactions (Grad. School of Science and Engineering, Tokyo Metropolitan University) YAMASHITA, Ken-ichi; PHAM, Qui Van Hang; KATAOKA, Kazuyuki; ASANO, Motoko; SUGIURA, Ken-ichi
- 2A3-04** Synthesis and Property of Antiaromatic Norcorroles (Department of Applied Chemistry, Graduate School of Engineering, Nagoya University) TANAKA, Hiroko; ITO, Tomohiro; SHIN, Ji-young; SHINOKUBO, Hiroshi
- 2A3-05\*** Investigation of the Reactivity of Antiaromatic Norcorrole (Department of Applied Chemistry, Graduate School of Engineering, Nagoya University) SHIN, Jiyoung; FUKUOKA, Takaki; SHINOKUBO, Hiroshi
- 2A3-06** The reaction of antiaromatic norcorrole with silylene and carbene (Department of Applied Chemistry, Graduate School of Engineering, Nagoya University) FUKUOKA, Takaki; SHIN, Ji-young; UCHIDA, Kenya; ISHIDA, Shintaro; IWAMOTO, Takeaki; SHINOKUBO, Hiroshi

Chair: KOJIMA, Takahiko (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(2A3-08, 2A3-09, 2A3-10, 2A3-11, 2A3-12)

- 2A3-08** Synthesis and properties of diazaporphyrin metal complexes (Department of Applied Chemistry, Graduate School of Engineering, Nagoya University) YAMAJI, Ayaka; SHIN, Ji-young; SHINOKUBO, Hiroshi
- 2A3-09** Synthetic Study of Phosphorous(V) Tetraazaporphyrins That Absorb Across the Complete UV-Visible Spectrum (Faculty of Science, Tohoku Univ.) YOSHIDA, Takuya; FURUYAMA, Taniyuki; KOBAYASHI, Nagao
- 2A3-10** Synthesis of 16  $\pi$   $\beta$ -octamethoxy porphyrin-Zinc(II) Complexes (Fac. Sci., Toho Univ.) KAWATO, Kunihiro; MATSUKAWA, Shiro; TAKAHASHI, Masashi
- 2A3-11** Synthesis and Characterization of PCP-type Porphyrin Pincer Complexes (Graduate School of Science, Kyoto University) FUJIMOTO, Keisuke; YONEDA, Tomoki; YORIMITSU, Hideki; OSUKA, Atsuhiko
- 2A3-12\*** Magnetic Switching Properties of a Porphyrin Based Single Molecule Magnet (Graduate School of Science, Osaka Univ.) TANAKA, Daisuke; INOSE, Tomoko; OHTA, Yusuke; TANAKA, Hirohumi; ISHIKAWA, Naoto; OGAWA, Takuji

## Saturday, March 23, PM

Chair: IMAHORI, Hiroshi (14 : 30~15 : 30)

\* 14:20-14:30: interval for laptop PC connection.(2A3-34, 2A3-35, 2A3-36, 2A3-37, 2A3-38, 2A3-39)

- 2A3-34** Fusion Reaction of *meso*-aminoporphyrin (Graduate School of Science, Kyoto University) FUKUI, Norihito; TOKUJI, Sumito; YORIMITSU, Hideki; OSUKA, Atsuhiko
- 2A3-35** Synthesis and properties of quinoidal fused porphyrin dimers (Grad. School of Science and Engineering, Tokyo Metropolitan University) YAMASHITA, Ken-ichi; HIRANO, Daisuke; ASANO, Motoko; SUGIURA, Ken-ichi
- 2A3-36** Synthesis of various porphyrin arrays and measurement of their properties (Graduate School of Science, Osaka Univ.) TAMAKI, Takashi; NOSAKA, Takenori; TANAKA, Daisuke; TANAKA, Hirohumi; OGAWA, Takuji
- 2A3-37** Consecutive synthesis of plane porphyrin arrays (Grad. Sch. Sci., Osaka Univ.) OJIMA, Mayuko; YAMANA, Ayuko; TANAKA, Daisuke; TANAKA, Hirofumi; OGAWA, Takuji
- 2A3-38** Synthesis and Physical Properties of Ring-Fused Porphyrins (Grad. School of Pure and Applied Sciences, Univ. of Tsukuba) SAEGUSA, Yuta; ISHIZUKA, Tomoya; KOTANI, Hiroaki; KOJIMA, Takahiko
- 2A3-39** Synthesis and properties of 2,7,12,17-tetraarylporphycenes (Graduate School of Materials Science, Nara Institute of Science and Technology, CREST, JST, PRESTO, JST) NAKAOKA, Haruka; KUZUHARA, Daiki; ARATANI, Naoki; YAMADA, Hiroko

Chair: SUGIURA, Ken-Ichi (15 : 40~16 : 30)

\* 15:30-15:40: interval for laptop PC connection.(2A3-41, 2A3-42, 2A3-43, 2A3-44, 2A3-45)

- 2A3-41** Synthesis of novel porphyrins through acid-mediated dealkynylation (Department of Applied Chemistry, Graduate School of Engineering, Nagoya University) ODA, Kazuma; HIROTO, Satoru; SHINOKUBO, Hiroshi
- 2A3-42** Synthesis of [3]octaphyrin(1.0.1.0.1.0.1.0) metal complexes from dipyrin metal complexes (Department of Applied Chemistry, Graduate School of Engineering, Nagoya University) KIDO, Hiromitsu; SHIN, Ji-young; SHINOKUBO, Hiroshi
- 2A3-43** Synthesis and Properties of  $\pi$ -extended Trisulpho Multi-nuclear Complexes (Faculty of Pure and Applied Sciences, University of Tsukuba) KANAZAWA, Kotaro; IIDA, Masaya; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 2A3-44\*** Absorption, Aggregation and Electrochemical Properties of Pyridyloxophthalocyanine Derivatives (Grad. Sch. Sci., Tohoku Univ.) TEIXEIRA TASSO, Thiago; FURUYAMA, Taniyuki; KOBAYASHI, Nagao
- 2A3-45** Synthesis of *meso*-Substituted Tetrabenzoporphyrins and Their Application for Organic Devices (Grad. Sch. Mat. Sci., NAIST) TAKAHASHI, Kohtarō; YAMADA, Naoya; KUZUHARA, Daiki; ARATANI, Naoki; NAKAYAMA, Kenichi; YAMADA, Hiroko

Chair: YAMADA, Hiroko (16 : 40~17 : 20)

\* 16:30-16:40: interval for laptop PC connection.(2A3-47, 2A3-48, 2A3-49)

- 2A3-47** Synthesis of dendritic photosynthetic mimics with C<sub>60</sub> and porphyrin (Okayama Univ.; Univ. of Strasbourg) TAKAHASHI, Nobuhiro; TAJIMA, Tomoyuki; TAKAGUCHI, Yutaka; HOLLER, M.; NIERENGARTEN, J.-F.
- 2A3-48** Synthesis and Photophysical Properties of Diazaporphyrin-[60]fullerene linked Dyads (Kyoto Univ., Grad. Sch. of Eng.; Kyoto Univ., WPI-iCeMS) YAMAMOTO, Masanori; TAKANO, Yuta; MATANO, Yoshihiro; IMAHORI, Hiroshi
- 2A3-49\*** Synthesis and photophysical properties of supramolecular nanoassemblies composed of coroneneimide and porphyrin derivatives for light energy conversion (Keio Univ.; Osaka Univ.; ALCA, JST) SAKAI, Hayato; OHKUBO, Kei; FUKUZUMI, Shunichi; HASOBE, Taku

## Sunday, March 24, AM

Chair: MATSUO, Yutaka (9 : 00~10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(3A3-01, 3A3-02, 3A3-03, 3A3-04, 3A3-06)

- 3A3-01** Nucleophilic addition to trioxosumanene and the bowl-to-bowl inversion (Osaka Univ.) AMAYA, Toru; OKIMOTO, Ryota; HIRAO, Toshikazu
- 3A3-02** Regioselective Derivatization of Sumanene (Osaka Univ.) AMAYA, Toru; ITO, Takanori; HIRAO, Toshikazu
- 3A3-03** Synthesis of Metallocenes with  $\pi$ -Bowl Sumanenyl Ligand (Osaka Univ.) AMAYA, Toru; TAKAHASHI, Yuki; HIRAO, Toshikazu
- 3A3-04\*** Stereoelectronic Effect of Curved Aromatic Compounds: Conformational Stability of Benzylic Substituted Sumanenes (IMS; SOKENDAI; IICT; NCKU) HIGASHIBAYASHI, Shuhei; ONOGI, Satoru; SAKURAI, Hidehiro; Kumar Srivastava, Hemant; SASTRY, G. Narahari; WU, Yao-ting
- 3A3-06** Synthesis and Properties of Open-cage C70 Derivative with a 13-Membered-ring Opening Encapsulating a Water Molecule (Institute for Chemical Research, Kyoto Univ; JST-PRESTO) ZHANG, Rui; MURATA, Michihisa; MURATA, Yasujiro

Chair: HAMURA, Toshiyuki (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(3A3-08, 3A3-09, 3A3-11, 3A3-13)

- 3A3-08** Construction of a Large Opening on Fullerene C60 Cage Based on Sulfur Insertion and Encapsulation of a Small Molecule (Institute for Chemical Research, Kyoto Univ.; JST-PRESTO) FUTAGOISHI, Tsukasa; MURATA, Michihisa; MURATA, Yasujiro
- 3A3-09\*** Organic Synthesis of Helium-Containing Fullerenes and Generation of Novel Endofullerenes Encapsulating Two Different Atoms (Institute for Chemical Research, Kyoto Univ.; Life Science Center of Tsukuba Advanced Research Alliance, Univ. of Tsukuba; Institute for Molecular Science; Institute for the Promotion of Excellence in Higher Education, Kyoto Univ.; Fukui Institute for Fundamental Chemistry, Kyoto Univ.; JST, PRESTO;) MORINAKA, Yuta; SATO, Satoru; WAKAMIYA, Atsushi; NIKAWA, Hidefumi; MIZOROGI, Naomi; TANABE, Fumiyuki; MURATA, Michihisa; KOMATSU, Koichi; FURUKAWA, Ko; KATO, Tatsuhisa; NAGASE, Shigeru; AKASAKA, Takeshi; MURATA, Yasujiro
- 3A3-11\*** Synthesis and Characterization of Li-Encapsulated Multihydroxylated Fullerene: Effects of the Li<sup>+</sup> on Hydroxylation of Fullerene cage and the product (Graduate School of Engineering, Osaka Univ.) UENO, Hiroshi; NAKAMURA, Yuji; KOKUBO, Ken; IKUMA, Naohiko; OSHIMA, Takumi
- 3A3-13** Addition of cyclopentadiene to lithium-ion-encapsulated fullerene through Diels-Alder reaction (Univ. of Tokyo) KAWAKAMI, Hiroki; OKADA, Hiroshi; MATSUO, Yutaka

Chair: MURATA, Yasujiro (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(3A3-15, 3A3-17, 3A3-18, 3A3-20)

- 3A3-15\*** Acid-Catalyzed Reactions of Nitrogen-containing fullerenes (Graduate School of Engineering, Osaka University) IKUMA, Naohiko; DOI, Yuta; MIKIE, Tsubasa; NAKAGAWA, Koji; KOKUBO, Ken; OSHIMA, Takumi
- 3A3-17** Oxidation of Azafulleroids by Peracids (Graduate School of Engineering, Osaka University) FUJIOKA, Koichi; IKUMA, Naohiko; MISAWA, Yusuke; KOKUBO, Ken; OSHIMA, Takumi
- 3A3-18\*** Syntheses and self-assembly behaviors of cyclopalladated 2-pyridyl-corannulene (Grad. School of Science, The Univ. of Tokyo) YAMADA, Mihoko; TASHIRO, Shohei; MIYAKE, Ryosuke; SHIONOYA, Mitsuhiko
- 3A3-20** Synthesis, Structure, and Properties of a Highly Soluble C<sub>60</sub>-Pentacene Adduct (Okayama Univ.) NISHIHAMA, Takuya; TAKAHASHI, Nobuhiro; HAYASHI, Yuki; FUKUDA, Keitaro; TAJIMA, Tomoyuki; TAKAGUCHI, Yutaka

## Sunday, March 24, PM

Chair: ITAMI, Kenichiro (13 : 30~14 : 00)

\* 13:20-13:30: interval for laptop PC connection.(3A3-28, 3A3-29, 3A3-30)

- 3A3-28** Efficient access to substituted pentacene derivatives by successive cycloaddition of isobenzofurans (Department of Chemistry, School of Science and Technology, Kwansei Gakuin Univ.) EDA, Shohei; HANEDA, Hiroshi; ARATANI, Masato; HAMARA, Toshiyuki
- 3A3-29** Synthesis of  $\pi$ -conjugated molecule via three fold cycloadditions of isobenzofuran trimer (Department of Chemistry, School of Science and Technology, Kwansei Gakuin University) TOZAWA, Hitoshi; HAMURA, Toshiyuki
- 3A3-30** Synthesis of polycyclobutabiphenylenes by dimerization of benzyne species (Department of Chemistry, School of Science and Technology, Kwansei Gakuin University) SAKAMOTO, Yui; SAITO, Masaharu; SUZUKI, Keisuke; HAMURA, Toshiyuki

Chair: OOSHIMA, Takumi (14 : 10~14 : 40)

\* 14:00-14:10: interval for laptop PC connection.(3A3-32)

- 3A3-32** Young Scholar Lectures of CSJ Selective Synthesis and

Properties of Carbon Nanorings (Department of Chemistry, Graduate School of Science, Nagoya University) Segawa, Yasutomo

Chair: INOKUMA, Yasuhide (14 : 50~15 : 50)

- \* 14:40-14:50: interval for laptop PC connection.(3A3-36, 3A3-37, 3A3-38, 3A3-40, 3A3-41)
- 3A3-36** Synthesis and properties of carbon nanocage (Grad Sch Sci, Nagoya Univ; WPI-ITbM, Nagoya Univ; AIST) MATSUI, Katsuma; SEGAWA, Yasutomo; NAMIKAWA, Tomotaka; KAMADA, Kenji; ITAMI, Kenichiro
- 3A3-37** Synthesis of Sulfur-Containing Carbon Nanoring (Grad Sch Sci, Nagoya Univ; WPI-ITbM, Nagoya Univ) ITO, Hideto; MITAMURA, Yukari; SEGAWA, Yasutomo; ITAMI, Kenichiro
- 3A3-38\*** Laser Annealing-induced Transformation of Sumanene Derivative into Nitrogen-doped Graphite-like Materials (Osaka Univ.) INADA, Yuh; AMAYA, Toru; SAEKI, Akinori; OTSUKA, Takeo; TSUJI, Ryotaro; SEKI, Shuhei; HIRAO, Toshiyuki
- 3A3-40** Synthesis of Boron-Doped Nanographenes with Long Alkoxy Substituents (Department of Chemistry, Graduate School of Science, Nagoya University; Research Center for Materials Science, Nagoya University; Institute of Transformative Bio-Molecules (WPI-ITbM), Nagoya University; PREST, Japan Science and Technology Agency) OSUMI, Shinichiro; DOU, Chuandong; MATSUDO, Kyohei; SAITO, Shohei; YAMAGUCHI, Shigehiro
- 3A3-41** Development of sequential synthesis method of azaacene oligomer (Department of Applied Chemistry, Graduate School of Engineering, Nagoya University) GOTO, Kiyohiko; HIROTO, Satoru; SHINOKUBO, Hiroshi
- Chair: NAKAMURA, Yosuke (16 : 00~17 : 00)
- \* 15:50-16:00: interval for laptop PC connection.(3A3-43, 3A3-44, 3A3-46, 3A3-47, 3A3-48)
- 3A3-43** X-ray crystallographic analysis of liquid compounds using crystalline sponge (School of Engineering, The Univ. of Tokyo, CREST) ARAI, Tatsuhiko; INOKUMA, Yasuhide; FUJITA, Makoto
- 3A3-44\*** Nanogram scale X-ray crystallography of non-crystalline compounds using crystalline sponge (School of Engineering, The Univ. of Tokyo) YOSHIOKA, Shota; ARIYOSHI, Junko; INOKUMA, Yasuhide; TAKADA, Kentaro; MATSUNAGA, Shigeki; FUJITA, Makoto
- 3A3-46** Development of quinoline derived oligoamide foldamers bearing leucine or oxazole residues in the backbone (Ochanomizu Univ.) KUDO, Mayumi; MAURIZOT, Victor; TANATANI, Aya; HUC, Ivan
- 3A3-47** Synthesis and properties of novel chiral structure, helix and cleft, based on alkyl-substituted phenol (1) (Fac. Sci., Tokyo Univ. of Sci.) KITAOKA, Tsukasa; SATO, Yusuke; YAGINUMA, Chihiro; TAKEMURA, Tetsuo
- 3A3-48** Synthesis and properties of novel chiral structure, helix and cleft, based on alkyl-substituted phenol (2) (Fac. Sci., Tokyo Univ. of Sci.) SATO, Yusuke; KITAOKA, Tsukasa; YAGINUMA, Chihiro; TAKEMURA, Tetsuo

Chair: TAKEMURA, Tetsuo (17 : 10~18 : 10)

- \* 17:00-17:10: interval for laptop PC connection.(3A3-50, 3A3-51, 3A3-52, 3A3-53, 3A3-54, 3A3-55)
- 3A3-50** Synthesis of carbazole dimer by using disilanyl double-pillaring strategy (Department of Chemistry, Tohoku University) KAMATA, Sho; NAKANISHI, Waka; ISOBE, Hiroyuki
- 3A3-51** Synthesis and Properties of Cyclic and Acyclic Alternating Carbazole-Thiophene Oligomers (Graduate School of Engineering, Gunma University) SHIMIZU, Satoru; KATO, Shin-ichiro; NAKAMURA, Yosuke
- 3A3-52** Synthesis and Properties of Cyclophanes Bearing Disiloxane or Disilane Linkages (Graduate School of Engineering, Gunma University) TAJIMA, Toshihiro; YAMAZAKI, Nanae; KATO, Shin-ichiro; NAKAMURA, Yosuke
- 3A3-53** Synthesis and Properties of Dehydroannulenes Possessing Tetrayne Linkages (Gunma Univ.) TAKAHASHI, Nobutaka; KATO, Shin-ichiro; NAKAMURA, Yosuke
- 3A3-54** Synthetic studies of cyclic pyrene oligomers connected by butadiyne and their electronic states (Grad. School of Science and Engineering, Tokyo Metropolitan University) YAMASHITA, Ken-ichi; Luong Xuan, Dien; TAZAWA, Shin; ASANO, Motoko; SUGIURA, Ken-ichi
- 3A3-55** Synthesis and properties of paracyclophane-based through space type photoinduced charge-transfer molecules (IMCE, Kyushu Univ.; Department of Chemistry, Graduate School of Sciences, Kyushu Univ.) MIYAZAKI, Takaaki; FUJISHIGE, Jun-ichi; SHIBAHARA, Masahiko; GOTO, Kenta; SHINMYOZU, Teruo

## Monday, March 25, AM

Chair: MATSUDA, Kenji (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4A3-01, 4A3-02, 4A3-03, 4A3-04, 4A3-05, 4A3-06)
- 4A3-01** Crystal Structure and Magnetic Properties of Ring Extended Indole Nitronyl Nitroxide radicals. (Faculty of science and technology, Keio Univ.) YAMAGUCHI, Yuta; YAMASAKI, Yusuke; MAEDA, Chihiro; YOSHIOKA, Naoki
- 4A3-02** Synthesis and magneto-structural correlation of thiadiazolo-fused nitronyl nitroxide. (Faculty of science and technology, Keio Univ.) TAJIMA, Saiga; MAEDA, Chihiro; YOSHIOKA, Naoki

- 4A3-03** Preparations and Magnetic Properties of Heterospin Chain Complexes Connected with Dipyrrolyl Aminoxy as Magnetic Coupler (Grad. Sch. Pharm. Sci., Kyushu Univ.) OGAWA, Hiraku; MURASHIMA, Kensuke; KARASAWA, Satoru; KOGA, Noboru
- 4A3-04** Molecular Structures and Magnetic Properties of Heterospin 1-D Cu (II) complexes Bridging with Aminoxy-Pyridine Ligand (Grad. Sch. Pharm. Sci., Kyushu Univ.) MURASHIMA, Kensuke; KARASAWA, Satoru; KOGA, Noboru
- 4A3-05** Changes in the spin multiplicity of the cyclopentane-1,3-diradical with nitroxide radicals during the cyclization reaction (Hiroshima Univ.) OMOKAWA, Yasuyuki; ABE, Manabu
- 4A3-06** Synthesis of a Novel Aryloxy Radical Unit for the Electron Transfer through a Hydrogen Bond (Graduate School of Science, Osaka University) MARUTANI, Miki; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KURATA, Hiroyuki; KUBO, Takashi

Chair: SAKAKIBARA, Kazuhisa (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(4A3-08, 4A3-09, 4A3-11, 4A3-12, 4A3-13)
- 4A3-08** Synthesis and magnetic properties of spiro-based Nitroxide radicals (Keio Univ.) WATANABE, Taku; TADA, Reiki; SUZUKI, Ryouta; MAEDA, Chihiro; YOSHIOKA, Naoki
- 4A3-09\*** Orbital-Based Study of Molecular Spintronics (IMCE, Kyushu University) TSUJI, Yuta; STAYKOV, Aleksandar; YOSHIZAWA, Kazunari
- 4A3-11** Evaluation of the  $\beta$  Value of the Phenylene Ethynylene Unit by Probing Exchange Interaction between Biradicals (Grad. School of Eng., Kyoto Univ., JST PRESTO) SHINOMIYA, Masataka; HIGASHIGUCHI, Kenji; MATSUDA, Kenji
- 4A3-12** Theoretical Investigation of the  $\beta$  Value of the Molecular Wire Carrying Organic Radicals. (Grad. School of Eng.; Kyoto Univ. · CRC., Hokkaido Univ.) NISHIZAWA, Shohei; HASEGAWA, Jun-ya; MATSUDA, Kenji
- 4A3-13** New *m*-phenylene biradicals showing spin transition and structural transition (The University of Electro-Communications) KONNO, Takuya; ISHIDA, Takayuki

Chair: YOSHIZAWA, Michito (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(4A3-15, 4A3-16, 4A3-17, 4A3-19, 4A3-20)
- 4A3-15** Capturing and Quantification of chlorine Radicals in the Gas-phase by Using Stable Radical Scavenger DPPH (Grad. Sch. Eng., Yokohama Natl. Univ.) SETO, Akira; GOTOH, Hiroaki; SAKAKIBARA, Kazuhisa; HATAZAWA, Shota; SEKI, Kanekazu; MISHIMA, Yuji; SAITOU, Naoki
- 4A3-16** A study on dynamic behavior of mobile protons in guanidine-based protic ionic liquids by spectroscopy and ab initio calculation. (Grad. Sch. Eng., Yokohama Natl. Univ.) KUROHA, Michiaki; GOTOH, Hiroaki; SAKAKIBARA, Kazuhisa
- 4A3-17\*** Multiple isomerism of 2-substituted dimedone (Ritsumeikan Univ.) CHINA, Hideyasu; OKADA, Yutaka
- 4A3-19** Synthesis of *N*-acylsubstituted open-cage fullerenes and H<sub>2</sub>O encapsulation at ordinary temperature and pressure (Department of chemistry, Faculty of Science, Kanagawa University) TANAKA, Teruhiko; ISHIDA, Takuya; FUZITA, Hirokazu; NAKANISHI, Kento; KABE, Yoshio
- 4A3-20** Functionalization of [60]Fullerene with 3-Trifluoromethyl-3-phenyldiazirine Derivatives (Department of Chemistry, Tokyo Gakugei University) HARADA, Kenji; YAMADA, Michio; MAEDA, Yutaka; HASEGAWA, Tadashi

## Monday, March 25, PM

Chair: TANAKA, Kazuyoshi (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(4A3-28, 4A3-29, 4A3-30, 4A3-31, 4A3-32, 4A3-33)
- 4A3-28** Synthesis of Isophosphindole-1,3-diones and Their Properties (Graduate School of Engineering, Osaka University) TAKEDA, Youhei; NISHIDA, Takuya; MINAKATA, Satoshi
- 4A3-29** Synthesis and Physical Properties of P-Heterocycle Biradical Derivatives Bearing Triazine Skeleton (Graduate School of Science and Engineering, Tokyo Institute) UETA, Yasuhiro; MIKAMI, Koichi; ITO, Shigekazu
- 4A3-30** Synthesis of Stable Neutral Radical of Tetradentate Dipyrrolyl Platinum Complex under Aerated Conditions (Faculty of Pure and Applied Sciences, University of Tsukuba) TAKIZAWA, Hiroyuki; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 4A3-31** Structure and Stereochemistry of Anthracene-Acetylene Cyclic Dimers with Intraannular Alkoxy Groups (Okayama Univ. of Science) TSUYA, Takuya; IWANAGA, Tetsuo; TOYOTA, Shinji
- 4A3-32** Short-step synthesis and external functionalization of molecular tubes containing four anthracene rings (Tokyo Inst. of Tech., Chem. Res. Lab.) HAGIWARA, Keita; YOSHIZAWA, Michito; AKITA, Munetaka
- 4A3-33** Synthesis and Properties of an Acyclic Compound Possessing Four Anthracene Rings (Tokyo Inst. of Tech., Chem. Res. Lab.) TSUMURA, Hiroki; LI, Zhio; YOSHIZAWA, Michito; AKITA, Munetaka

Chair: YOSHIZAWA, Michito (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(4A3-35, 4A3-36, 4A3-37, 4A3-38, 4A3-39, 4A3-40)
- 4A3-35** Synthesis and Electronic Properties of 6, 13-Diamino Substituted Pentacene Derivatives (Kyoto Univ.) ISHIKAWA, Hiroshi; SAKAMAKI, Daisuke; ITO, Akihiro; TANAKA, Kazuyoshi
- 4A3-36** Synthesis and Electronic Properties of Boron-Nitrogen-Containing Anthracene Derivatives (Kyoto Univ.) UEBE, Masashi; SAKAMAKI, Daisuke; ITO, Akihiro; TANAKA, Kazuyoshi
- 4A3-37** Syntheses of Heteroacene Derivatives and Their Application in Organic Single-Crystal Transistors (Center for Organic Photonics and Electronics Research, Kyushu Univ.) MIENO, Hiroyuki; YASUDA, Takuma; YANG, Yu Seok; ADACHI, Chihaya
- 4A3-38** Synthesis and Evaluation of Cyclotriphosphazene Derivatives as Host for Organic Light Emitting Diodes (Center for Organic Photonics and Electronics Research, Kyushu University) NISHIMOTO, Takuro; YASUDA, Takuma; LEE, Sae Youn; ADACHI, Chihaya
- 4A3-39** Anomalous Reactivity of a Benz[c]indeno[2,1-a]fluorene Derivative Having a 2,3-Naphthoquinodimethane Backbone (Graduate School of Engineering Science, Osaka University) MIYOSHI, Hirokazu; NOBUSUE, Shunpei; SHIMIZU, Akihiro; TOBE, Yoshito
- 4A3-40** Synthesis and Properties of Highly Distorted Hexadehydrotetrazeno [14]annulene (Graduate School of Engineering Science, Osaka University) YAMANE, Hiroshi; NOBUSUE, Shunpei; TOBE, Yoshito

## Room A4

### CO-LEARNING HOUSE I C106

## Physical Organic Chemistry -Structures and Properties-

Friday, March 22, AM

Chair: KAWANO, Masaki (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(1A4-01, 1A4-02, 1A4-03, 1A4-05, 1A4-06)
- 1A4-01\*** Directional Assembly of  $\alpha$ -Helical Peptides induced by Cyclization (Seoul National University) SIM, Seunghyun; KIM, Yongjoo; KIM, Taehoon; LIM, Sunhee; LEE, Myongsoo
- 1A4-02\*** Smart Nanofibers with Switchable Chirality from Self-assembly of Amphiphilic Macrocycles (Seoul National University) KANG, Jiheong; LIM, Sunhee; KIM, Yongju; LEE, Myongsoo
- 1A4-03\*** Columnarly Assembled Oligoamide Macrocycles (1): Stereospecific Assembly Triggered by Core Chirality (The University of Tokyo) SATO, Kohei; ITOH, Yoshimitsu; AIDA, Takuzo
- 1A4-05** Columnarly Assembled Oligoamide Macrocycles (2): Guest Encapsulation of Porous Liquid Crystalline Materials (The University of Tokyo) YOKOMIZO, Saki; SATO, Kohei; ITOH, Yoshimitsu; AIDA, Takuzo
- 1A4-06** Columnarly Assembled Oligoamide Macrocycles (3): Toward Fluorinated Organic Nanochannel (The University of Tokyo) KONDA, Takeshi; SATO, Kohei; ITOH, Yoshimitsu; AIDA, Takuzo

Chair: HIROSE, Keiji (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(1A4-08, 1A4-10, 1A4-12, 1A4-13)
- 1A4-08\*** Hexaazaphenylene-based Proton Conductive Molecular Assemblies (Pohang Univ. of Science and Technology (POSTECH)) YAKIYAMA, Yumi; LEE, Gil-ryeong; KAWANO, Masaki
- 1A4-10\*** Molecular Design for LCST Behavior of Supramolecular Complexes Formed by Non-Covalent Bonds between Polymer and Small molecules (Univ. of Hokkaido) AMEMORI, Shogo; KOKADO, Kenta; SADA, Kazuki
- 1A4-12** Phase Transition of urea-modified polymer by chemical transformation of additives (Department of Chemistry, Faculty of Science, Hokkaido University) HAMANO, Yoshimi; AMEMORI, Shogo; KOKADO, Kenta; SADA, Kazuki
- 1A4-13** Mechanochromic Luminescence of Self-assembled Amphiphilic Dipolar Molecules (Grad. Sch. Eng., Chiba Univ. : ) OKAMURA, Satoru; KARATSU, Takashi; KITAMURA, Akihiko; YAGAI, Shiki

Chair: ITOH, Yoshimitsu (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(1A4-15, 1A4-16, 1A4-17, 1A4-18, 1A4-19, 1A4-20)
- 1A4-15** Sound-Recognition by Nanofibers (1) : Anthracene Supramolecular Polymer (Graduate School of Science, Kobe University) MIURA, Ryosuke; TSUDA, Akihiko
- 1A4-16** Sound-Recognition by Nanofibers (2) : Development of a Supramolecular Nanotube (Faculty of Science, Kobe University) HOTTA, Yasuhisa; TSUDA, Akihiko
- 1A4-17** Sound-Recognition by Nanofibers (3) : Development of Conjugated Metalloporphyrin Polymers (Faculty of Science, Kobe University) KOSE,

Kohei; OSUKA, Atsuhiko; TSUDA, Akihiko

- 1A4-18** Formation of Metal-Driven Assemblies Based on Acyclic  $\pi$ -Conjugated Ligands Arranged in Acute Angles (College of Pharmaceutical Sciences, Ritsumeikan University) MAEDA, Hiromitsu; AKUTA, Ryo
- 1A4-19** Control over hierarchy levels in the self-assembly of stackable nanorings formed by azobenzene dimers (Grad. Sch. Eng., Chiba Univ.) YAMAUCHI, Mitsuki; KARATSU, Takashi; KITAMURA, Akihiko; KIKKAWA, Yoshihiro; YAGAI, Shiki
- 1A4-20** Self-Assembly and photoresponsive properties of azobenzene dimers possessing chiral side chains. (Grad. Sch. Eng., Chiba Univ.) YAGAI, Shiki; CHIBA, Yosuke; YAMAUCHI, Mitsuki; KARATSU, Takashi; KITAMURA, Akihiko

Friday, March 22, PM

Chair: TOHNAI, Norimitsu (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(1A4-28, 1A4-30, 1A4-32)
- 1A4-28\*** Infectious supramolecular assembly: Understanding the mechanism and application to living supramolecular polymerization (National Institute for Materials Science (NIMS)) OGI, Soichiro; SUGIYASU, Kazunori; TAKEUCHI, Masayuki
- 1A4-30\*** Assembled Structures of Anion-Responsive Molecules Bearing Bowl-Shaped  $\pi$ -Conjugated Moiety (College of Pharmaceutical Sciences, Ritsumeikan University) BANDO, Yuya; MAEDA, Hiromitsu
- 1A4-32\*** A covalent modular approach for dimension-controlled self-organization of perylene bisimide dyes (Grad. Sch. Eng., Chiba Univ.) LIN, Xu; KURATA, Hiroki; KARATSU, Takashi; KITAMURA, Akihiko; YAGAI, Shiki

Chair: TAHARA, Kazukuni (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(1A4-35, 1A4-37, 1A4-39, 1A4-40)
- 1A4-35\*** Time-resolved Observation of Wrapping Behaviors of Poly(dialkylsilane)s on Single-walled Carbon Nanotube (NAIST) CHUNG, Woojung; NOBUSAWA, Kazuyuki; KAMIKUBO, Hironari; KATAOKA, Mikio; FUJIKI, Michiya; NAITO, Masanobu
- 1A4-37\*** Construction of Amphiphilic Inclusion Channel by Using 1,8-Bisaminophenylanthracene and the Guest-Dependent Fluorescence Properties (Graduate School of Engineering, Osaka University) SUGINO, Misa; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji
- 1A4-39** Development of Tripodal-anchor Units Having Heterocycles as Adsorption Groups and Evaluation of Adsorption on Gold Electrodes. (ISIR, Osaka Univ.) TANAKA, Kazunari; IE, Yutaka; ASO, Yoshio
- 1A4-40** Development of Long Oligothiophenes Insulated by Spiro-Substituted Fluorene bearing Branched Alkyl Groups (The Institute of Scientific and Industrial Reserch, Osaka University) TONE, Saori; IE, Yutaka; ASO, Yoshio

Chair: SUGIYASU, Kazunori (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(1A4-42, 1A4-44, 1A4-45, 1A4-46, 1A4-47)
- 1A4-42\*** Temperature Induced Structural Phase Transitions in a Two-Dimensional Self-Assembled Network (Graduate School of Engineering Science, Osaka University; KU Leuven) TAHARA, Kazukuni; BLUNT, Matthew, O.; ADISOEJOSO, Jinne; KATAYAMA, Keisuke; DE FEYTER, Steven; TOBE, Yoshito
- 1A4-44** Studies on Construction of a Two-Dimensional Molecular Network with Two Different Pores (Graduate School of Engineering Science, Osaka University) NAKATANI, Kenta; TAHARA, Kazukuni; TOBE, Yoshito
- 1A4-45** Construction of a Two-Dimensional Porous Molecular Network with Zinc Porphyrin Units in the Pores (Graduate School of Engineering Science, Osaka University) IRITANI, Kohei; TAHARA, Kazukuni; TOBE, Yoshito
- 1A4-46** STM observations of 2-D ordered photochromic compounds with amide groups at solid-liquid interface (Grad. School of Eng., Kyoto Univ.) IMAIZUMI, Yohei; HIROSE, Takashi; SAKANO, Takeshi; MATSUDA, Kenji
- 1A4-47** Control over self-assembled structures of oligo(hexylthiophene)s by barbituric acid functional group (Grad. Sch. Eng., Chiba Univ.; CREST-JST; AIST) YAGAI, Shiki; SUZUKI, Mika; KARATSU, Takashi; KITAMURA, Akihiko; KIKKAWA, Yoshihiro

Chair: HIROSE, Takashi (17 : 00~18 : 00)

- \* 16:50-17:00: interval for laptop PC connection.(1A4-49, 1A4-50, 1A4-51, 1A4-52, 1A4-53, 1A4-54)
- 1A4-49** Studies on Synthesis of Conjugated Polymers from Surface Confined Octahydro[12]annulene Derivatives with Highly Reactive Butadiene Units (Graduate School of Engineering Science, Osaka University) ANDO, Daichi; TAHARA, Kazukuni; KAWAMOTO, Yuka; TOBE, Yoshito
- 1A4-50\*** Studies on Self-Assemblies of Amide-Functionalized Octahydrodibenzof[12]annulenes on Graphite Surface and Attempts on Their Topochemical Polymerization (Graduate School of Engineering Science, Osaka University) GUO, Zhaoqi; TAHARA, Kazukuni; TOBE, Yoshito
- 1A4-51** Structural control and photophysical properties of supramolecular architectures based on the porphyrin nanosheets organized by metal coordination (Keio University) SAKUMA, Takao; SAKAI, Hayato; HASOBE, Taku

- 1A4-52** Impact of alkyl chains on the self-assembly of naphthalene derivatives possessing barbituric acid (Grad. Sch. Eng., Chiba Univ.) YAGAI, Shiki; IWAWAKI, Hidetaka; KARATSU, Takashi; KITAMURA, Akihide
- 1A4-53** Induction of helical morphologies for self-assembling naphthalenes by the introduction of ester moieties. (Grad. Sch. Eng., Chiba Univ.) ISHIWATARI, Katsuya; KARATSU, Takashi; KITAMURA, Akihide; YAGAI, Shiki
- 1A4-54** Introduction of Photoresponsive Moieties into Self-Assembling Naphthalenes Functionalized with Barbituric Acid (Grad. Eng., Chiba Univ.) YAGAI, Shiki; YAMADA, Yuki; KARATSU, Takashi; KITAMURA, Akihide

## Saturday, March 23, AM

Chair: KARASAWA, Satoru (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2A4-01, 2A4-02, 2A4-03, 2A4-04, 2A4-05)
- 2A4-01** Supramolecular Copolymerization through the Positive Allosteric Bindings of Hydrindacenehexamide Receptors and Resorcinol Derivatives (Tokyo University of Science) KAWAI, Hidetoshi; AKIMOTO, Keita; ONO, Yuki; OBA, Fumi; FUJIWARA, Kenshu; SUZUKI, Takanori
- 2A4-02** Self-assembly of Triptycene-fused Malonamides to Fiber Structures by Multiple Hydrogen-bond Formations (Tokyo University of Science) TAKADA, Tomonobu; KAWAI, Hidetoshi
- 2A4-03** Synthesis and Properties of Dipeptidyl Urea Bearing  $\pi$ -Conjugated Moieties (Osaka Univ.) MORIUCHI, Toshiyuki; YAJIMA, Naoya; HIRAO, Toshikazu
- 2A4-04** Synthesis and Structural Characterization of Ferrocene Derivatives bearing Dipeptide Chains (Osaka Univ.) MORIUCHI, Toshiyuki; NISHIYAMA, Taiki; HIRAO, Toshikazu
- 2A4-05\*** Chiroptical molecular propeller based on hexakis(phenylethynyl) benzene through the complexation-induced intramolecular transmission of local point chirality (Hokkaido University) KATOONO, Ryo; KAWAI, Shunsuke; TANAKA, Yuuki; HANADA, Keisuke; NEHIRA, Tatsuo; FUJIWARA, Kenshu; SUZUKI, Takanori

Chair: KAWAI, Hidetoshi (10 : 10 ~ 11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(2A4-08, 2A4-09, 2A4-10, 2A4-11, 2A4-12, 2A4-13)
- 2A4-08** Preparations and Properties of Amphiphilic Compounds Carrying Functional Group (Grad. Sch. Pharm. Sci., Kyushu Univ.) HIRAMATSU, Michiaki; SHIMADA, Takashi; OHASHI, Eriko; KARASAWA, Satoru; KOGA, Noboru
- 2A4-09** Preparation of Amphiphilic Urenil Derivatives Carrying Metal Complex and Their Self-assembly Behaviors in Water (Grad. Sch. Pharm. Sci., Kyushu Univ.) SHIMADA, Takashi; KARASAWA, Satoru; KOGA, Noboru
- 2A4-10** Synthesis and Properties of Amphiphilic Chiral Polythiophene Nanotubes (Kinki Univ. Faculty of Science and Engineering) NISHIURA, Asuka; NAKAHODO, Tsukasa; FUJIHARA, Hisashi
- 2A4-11** Molecular Recognition in the Nanospace of Chiral Cationic Polythiophene Nanotubes (Kinki Univ. Faculty of Science and Engineering) UEHARA, Hitomi; NAKAHODO, Tsukasa; FUJIHARA, Hisashi
- 2A4-12** Synthesis and Properties of Polythiophene Nanotubes in Chiral Liquid Crystal. (Kinki Univ. Faculty of Science and Engineering) YAMASHITA, Tomohiko; NAKAHODO, Tsukasa; FUJIHARA, Hisashi
- 2A4-13** Structural effects on stabilizing a cybotactic nematic phase. (Hiroshima Univ.; Kyoto Univ.) NISHIYA, Wataru; YOSHIZAWA, Atsushi; TAKANISHI, Yoichi; YAMAMOTO, Jun

## Saturday, March 23, PM

Chair: YOSHIZAWA, Michito (14 : 30 ~ 15 : 30)

- \* 14:20-14:30: interval for laptop PC connection.(2A4-34, 2A4-35, 2A4-36, 2A4-37, 2A4-38, 2A4-39)
- 2A4-34**  $\pi$ -Clefs of Pincer-like Molecules: Molecular Recognition and Assembly (The University of Tokyo) SHIBUYA, Yoshiki; ITOH, Yoshimitsu; AIDA, Takuzo
- 2A4-35** Self-Assembly of Complementary-Charged Fmoc Oligopeptides into Beta-Sheets (Univ. of Tsukuba) NAKAYAMA, Toru; TASHIRO, Kentaro; YAMAMOTO, Yohei
- 2A4-36** Synthesis and Self-Aggregation of Zinc 3-Aminomethyl-Chlorins (Ryukoku Univ.; Ritsumeikan Univ.) MIYATAKE, Tomohiro; MASUDA, Yohei; TAMIAMI, Hitoshi
- 2A4-37** Synthesis and self-aggregation of amphiphilic zinc porphyrins possessing a PEG chain (Ryukoku Univ.; Ritsumeikan Univ.) MIYATAKE, Tomohiro; OKADA, Kazuki; YAMAZAKI, Kanako; TAMIAMI, Hitoshi
- 2A4-38** Cross-linkage of zinc porphyrin supramolecularly by bispyridine ligand. (Grad. Sch. Sci., Hiroshima Univ.) KINJO, Kanashi; WATANABE, Akihide; IKEDA, Toshiaki; HAINO, Takeharu
- 2A4-39** Construction of supramolecular nanowires composed of crowned imidazolyl porphyrin derivatives (Tokyo Univ. of Science) MIYAZAKI, Syuhei; SATAKE, Akiharu

Chair: MIYATAKE, Tomohiro (15 : 40 ~ 16 : 40)

- \* 15:30-15:40: interval for laptop PC connection.(2A4-41, 2A4-42, 2A4-43, 2A4-44, 2A4-46)
- 2A4-41** Synthesis and Physical Properties of Oligomethylene-tethered Diketopyrrolopyrrole Dimers (Grad. Sch. Eng., Chiba Univ.; CREST-JST) YAGAI, Shiki; OKAZAWA, Yusuke; KARATSU, Takashi; KITAMURA, Akihide
- 2A4-42** Boronate Self-Assemblies with Embedded Nanogold Which Exhibited a Catalytic Activity for the Reduction of Nitrophenol (Tokyo Metropolitan University) TAKANASHI, Naoto; NISHIYABU, Ryuhei; KUBO, Yuji
- 2A4-43** Preparation of Nanogold-Deposited Boronate Self-Assemblies with Several Morphologies (Tokyo Metropolitan University) SEKI, Yuta; TAKANASHI, Naoto; MATSUSHIMA, Yusuke; NISHIYABU, Ryuhei; KUBO, Yuji
- 2A4-44\*** Aromatic micelles: functionalization of the anthracene shells and encapsulation of fluorescent guests (Tokyo Inst. of Tech., Chem. Res. Lab.) KONDO, Kei; YOSHIZAWA, Michito; AKITA, Munetaka
- 2A4-46** Synthesis, Self-assembly, and Spectroscopic Properties of Amphiphilic Anthracene Trimers (Tokyo Inst. of Tech., Chem. Res. Lab.) SUZUKI, Akira; YOSHIZAWA, Michito; AKITA, Munetaka

Chair: HIRAOKA, Shuichi (16 : 50 ~ 17 : 30)

- \* 16:40-16:50: interval for laptop PC connection.(2A4-48, 2A4-50, 2A4-51)
- 2A4-48\*** Recognition of Fullene with a Rigid  $\pi$ -Conjugated Dendrimer (Tokyo Institute of Technology, Chemical Resources Laboratory) ALBRECHT, Ken; YAMAMOTO, Kimihisa
- 2A4-50** Reaction control by a porphyrin core dendrimer with the molecular shape recognition (Tokyo Institute of Technology, Chemical Resources Laboratory) KUROKAWA, Takuto; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 2A4-51** Creation of a supramolecular polymer that can accumulate metal salts (Tokyo Institute of Technology, Chemical Resources Laboratory) OTAKE, Masaya; ALBRECHT, Ken; YAMAMOTO, Kimihisa

## Sunday, March 24, AM

Chair: SHIZUMA, Motohiro (9 : 00 ~ 9 : 50)

- \* 8:50-9:00: interval for laptop PC connection.(3A4-01, 3A4-02, 3A4-03, 3A4-04, 3A4-05)
- 3A4-01** Construction of Chiral Hydrindacene-dimers with Allosteric Chiral Recognition Ability (Tokyo University of Science) TAKAHASHI, Naohiro; HATTORI, Ayako; FUJIWARA, Kenshu; SUZUKI, Takanori; KAWAI, Hidetoshi
- 3A4-02** Association Mechanism of Quaternary Ammonium Compounds with a Bowl-shaped Tripeptide Consisted of 2-(3-Aminophenoxy)propanoic Acid (Graduate School of Engineering, Chiba University) AKAZOME, Motohiro; TAKAGI, Koji; MATSUMOTO, Shoji
- 3A4-03** Chiral Discrimination of Quaternary Ammonium Compounds Using Cyclic Tripeptide of (R)-2-(3-Aminophenoxy)propanoic Acid (Graduate School of Engineering, Chiba University) AKAZOME, Motohiro; AKAMATSU, Tatsuya; MATSUMOTO, Shoji
- 3A4-04** Properties and chiral recognition of polyrotaxane-type Ln(III) supramolecular polymers constructed by utilizing cyclodextrins (Institute of Systems, Information Technologies and Nanotechnologies) YOSHIHARA, Daisuke; TSUCHIYA, Youichi; NOGUCHI, Takao; SHINKAI, Seiji
- 3A4-05** Helical assembling behavior of platinum(II) complexes possessing bis(phenylisoxazolyl)benzenes (Hiroshima Univ.) TAKAYAMA, Midori; IKEDA, Toshiaki; HAINO, Takeharu

Chair: AKAZOME, Motohiro (10 : 00 ~ 11 : 00)

- \* 9:50-10:00: interval for laptop PC connection.(3A4-07, 3A4-08, 3A4-09, 3A4-10, 3A4-11, 3A4-12)
- 3A4-07** Development of the Time-Resolved CD System for Detection of Biomolecular Dynamics (XVIII) - Study on the Excited State Dynamics of Zn Porphyrin Dimer Chiral Amine Complex - (IMRAM, Tohoku Univ.) MURAKAMI, Makoto; HAMADA, Yoshiki; ARAKI, Yasuyuki; SAKAMOTO, Seiji; WADA, Takehiko
- 3A4-08** Evaluation of chiral discrimination abilities of new chiral hosts using the fast atom bombardment mass spectrometry and application for a chiral stationary phase (Osaka Municipal Technical Research Institute, Osaka Institute of Technology, Institute of Scientific and Industrial Research.) SHIZUMA, Motohiro; HISAI, Terunobu; FUJIWARA, Yuki; AKASEGAWA, Yoshiki; SATO, Hirofumi; SUZUKI, Takeyuki; OTAKA, Atushi; SHIMOMURA, Osamu; NOMURA, Ryoki; ONO, Daisuke
- 3A4-09** Chiral-discrimination of free amino acids using chiral copper complex evaluated by mass spectrometry (Graduate School of Science and Engineering, Kansai University, Graduate School of Science, Osaka City University, Osaka Municipal Technical Research Institute) NAKAKOJI, Takashi; SATO, Hirofumi; MIYAKE, Hiroyuki; TSUKUBE, Hiroshi; KAWASAKI, Hideya; ARAKAWA, Ryuichi; ONO, Daisuke; SHIZUMA, Motohiro
- 3A4-10** Optical purity determination of free amino acid using chiral copper complex evaluated by mass spectrometry (Graduate School of Science and Engineering, Kansai University, Graduate School of Science, Osaka City University, Osaka Municipal Technical Research Institute) SATO, Hirofumi;



NAKAKOJI, Takashi; MIYAKE, Hiroyuki; TSUKUBE, Hiroshi; KAWASAKI, Hideya; ARAKAWA, Ryuichi; ONO, Daisuke; SHIZUMA, Motohiro

- 3A4-11** Chiral recognition of amino acid by chiral macrocyclic rhombamine host (Kansai Univ.) IWASHITA, Tomoharu; TANAKA, Koichi  
**3A4-12** Chiral recognition of amino acid derivatives by calixarene like chiral macrocyclic amine host (Kansai Univ.) TANAKA, Kohei; TANAKA, Koichi

Chair: TANAKA, Koichi (11 : 10~12 : 10)

\* 11:00-11:10: interval for laptop PC connection.(3A4-14, 3A4-16, 3A4-17, 3A4-18, 3A4-19)

- 3A4-14\*** Supramolecular Chirality-Sensing with Optically Active Polythiophenes (Graduated School of Engineering, Osaka Univ.) FUKUHARA, Gaku; INOUE, Yoshihisa  
**3A4-16** The two-point recognition and electrochemical sensing of dopamine using ferrocene skeleton. (Faculty of engineering, Gifu university) KOMADA, Haruka; GOTO, Keisuke; MIYAJI, Hidekazu  
**3A4-17** Carboxylic Acid Recognition of Diamidine Having Diphenyl-naphthalene Unit. (Kyoto Institute of Technology) KUSUKAWA, Takahiro; TANAKA, Syugo; HARADA, Toshiro  
**3A4-18** Emission Properties of Pyrene Derivatives through Introduction into Polypeptides (Osaka Univ.) MORIUCHI, Toshiyuki; EBISU, Keisuke; HIRAO, Toshikazu  
**3A4-19** Fe(II)-induced structure change and suppression of axial ligand binding in Zn-porphyrin-inserted phenylene-ethynylene oligomers with three bipyridine terminals (OCU) NINOMIYA, Yoshikazu; KOZAKI, Masatoshi; SUZUKI, Shuichi; OKADA, Keiji

### Sunday, March 24, PM

Chair: FUKUHARA, Gaku (13 : 20~14 : 20)

\* 13:10-13:20: interval for laptop PC connection.(3A4-27, 3A4-28, 3A4-29, 3A4-30, 3A4-31, 3A4-32)

- 3A4-27** A steep turn-on fluorescence sensor based on aggregation-induced emission (Institute for Advanced Study, Kyushu University) NOGUCHI, Takao; SHINKAI, Seiji  
**3A4-28** Synthesis of Carbazole-based Conjugated Macrocycles by Click Reactions and Their Properties (Graduate School of Engineering, Gunma University) JIN, Satoshi; KATO, Shin-ichiro; NAKAMURA, Yosuke  
**3A4-29** Synthesis of Anion Receptors Comprising Directly Linked Oligopyrrole Units (College of Pharmaceutical Sciences, Ritsumeikan University) MAEDA, Hiromitsu; KAWASAKI, Yuto  
**3A4-30** Control of Ionic Dissociation through Complexation of Anion Receptors (Graduate School of Chemical Sciences and Engineering, Hokkaido University) ISEDA, Kazuya; KOKADO, Kenta; SADA, Kazuki  
**3A4-31** Anion Recognition Properties of Macrocyclic Bisurea Derivatives Based on 2,2'-Binaphthalene Scaffold (Faculty of Science, Yamagata University) SATAKE, Akira; KONDO, Shin-ichi; ISHIZAWA, Yuki  
**3A4-32** Fluorometric Detection of Aromatic Thiols in Aqueous Media with a Resorufin Derivative (Osaka Univ.) YAMAMOTO, Kohei; SUMIYA, Shigehiro; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki

Chair: IKEDA, Atsushi (14 : 30~15 : 30)

\* 14:20-14:30: interval for laptop PC connection.(3A4-34, 3A4-35, 3A4-36, 3A4-37, 3A4-38, 3A4-39)

- 3A4-34** Cation Recognition of Luminescent N2O2-type Dipyrrin Complexes Having Quinolinol Units as a Recognition Site (Faculty of Pure and Applied Sciences, University of Tsukuba) UCHIDA, Junji; YAMAMURA, Masaki; NABESHIMA, Tatsuya  
**3A4-35** A Phenylbenzoxazole-Amide-Cyclen Linkage as a Ratiometric Fluorescent Receptor for Zn(II) in Water (Osaka Univ.) MATSUNAGA, Yoshinao; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki  
**3A4-36** Different Fluorescence Response of a Coumarin-Amide-Dipicolylamine Linkage to Zn(II) and Cd(II) in Water (Osaka Univ.) SUMIYA, Shigehiro; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki  
**3A4-37** Spiroate-type Molecular Connecting Module: Preparation and Evaluation of Their Molecular Recognition Behavior (Konan Univ.; Tokushima Bunri Univ.) IWASO, Kazuhisa; DANJO, Hiroshi; KAWAHATA, Masatoshi; OHARA, Kazuaki; YAMAGUCHI, Kentaro; MIYAZAWA, Toshifumi  
**3A4-38** Spiroborate Nanocages: Preparation and Evaluation of Their Association Behavior (Konan Univ.; Tokushima Bunri Univ.) MASUDA, Yuki; DANJO, Hiroshi; KAWAHATA, Masatoshi; OHARA, Kazuaki; YAMAGUCHI, Kentaro; MIYAZAWA, Toshifumi  
**3A4-39** Induced CD Signal of a Fluorene Derivative in Complex Formation with Zinc Ion (Graduate School of Materials Science, Nara Institute of Science and Technology) TERUNUMA, Takuya; YUASA, Junpei; KAWAI, Tsuyoshi

Chair: SHIRAIISHI, Yasuhiro (15 : 40~16 : 40)

\* 15:30-15:40: interval for laptop PC connection.(3A4-41, 3A4-42, 3A4-43, 3A4-44, 3A4-45, 3A4-46)

- 3A4-41** Effect of Substituent in Formation of Fullerene Derivative- $\gamma$ -Cyclodextrin 1:2 Complexes (Graduate School of Materials Science, Nara

Institute of Science and Technology) HIRATA, Akiko; ISHIKAWA, Michiko; IKEDA, Atsushi; KIKUCHI, Jun-ichi

- 3A4-42** Regioselective separation of bifunctionalized C60 derivatives by using cyclodextrin (Grad. Sch. Mat. Sci. Nara Inst. Sci. and Tech.) ISHIKAWA, Michiko; IKEDA, Atsushi; KIKUCHI, Jun-ichi; AKIYAMA, Motofusa; SHINODA, Wataru  
**3A4-43** Photophysical properties of 2:2 complexes between alkynylpyrenes and  $\gamma$ -cyclodextrin (Univ. of Toyama; Graduate School of Pharmaceutical Sciences) HAYASHI, Koichiro; ITOU, Tatsuya; OKUTANI, Kazuhiro; IWAMURA, Munetaka; NOZAKI, Kouichi; FUJIMOTO, Kazuhisa; INOUE, Masahiko  
**3A4-44** Formation Behavior of Inclusion Complexes between Cyclodextrin Dimers and Polycyclic Aromatic Compounds in Nonpolar solvents (Osaka Univ.) KOGAME, Chizuru; KIDA, Toshiyuki; AKASHI, Mitsuru  
**3A4-45** Synthesis and Host Behavior of Pyridyl-Terminated Cyclodextrin Derivative (NAIST) NOBUSAWA, Kazuyuki; NAITO, Masanobu  
**3A4-46** Modified Synthesis and Supramolecular Polymerization of Biscalic[4]resorcinarene (Hiroshima Univ.) YAMADA, Hitomi; IKEDA, Toshiaki; MIZUTA, Tsutomu; HAINO, Takeharu

Chair: HAINO, Takeharu (16 : 50~17 : 50)

\* 16:40-16:50: interval for laptop PC connection.(3A4-48, 3A4-50, 3A4-52)

- 3A4-48\*** Kinetic Resolution of Arylamines by Supramolecular Capsules Derived from Cyclodextrins in Nonpolar Solvents (Graduate School of Engineering, Osaka University) ASAHARA, Haruyasu; IWAMOTO, Takuya; KIDA, Toshiyuki; AKASHI, Mitsuru  
**3A4-50\*** Dynamics of Self-assembly of Octahedron-shaped Pd(II) Coordination Capsule (The Univ. of Tokyo) TSUJIMOTO, Yuya; KOJIMA, Tatsuo; HIRAOKA, Shuichi  
**3A4-52\*** Synthesis, Structural Conversion, and Guest Encapsulation of Supramolecular Porphyrin Cage Complex  $Zn_4L_6$  (The Univ. of Tokyo; Rigaku Co.Ltd) NAKAMURA, Takashi; UBE, Hitoshi; SHIRO, Motoo; SHIONOYA, Mitsuhiko

### Monday, March 25, AM

Chair: SATO, Sota (9 : 00 ~ 9 : 50)

\* 8:50-9:00: interval for laptop PC connection.(4A4-01, 4A4-02, 4A4-03, 4A4-05)

- 4A4-01** Metallocene Nanotube 1: Cut-out Formation of Ultralarge Coordination Macrocyclic from Tubular Assembly (School of Engineering, The Univ. of Tokyo) HISADA, Yuki; FUKINO, Takahiro; FUJITA, Norifumi; AIDA, Takuzo  
**4A4-02** Metallocene Nanotube 2: Chirality Induction of Coordination Nanotube (School of Engineering, The Univ. of Tokyo) YAMAGISHI, Hiroshi; FUKINO, Takahiro; FUJITA, Norifumi; AIDA, Takuzo  
**4A4-03\*** Metallocene Nanotube 3: Development of Multimetallic Nanotube (School of Engineering, The Univ. of Tokyo) FUKINO, Takahiro; FUJITA, Norifumi; AIDA, Takuzo  
**4A4-05** Boron-Complexing Assembled Structures of Linearly Arranged Oligomers of  $\pi$ -Conjugated Molecules (College of Pharmaceutical Sciences, Ritsumeikan University) MAEDA, Hiromitsu; NISHIMURA, Yuki

Chair: MAEDA, Hiromitsu (10 : 00~11 : 00)

\* 9:50-10:00: interval for laptop PC connection.(4A4-07, 4A4-09, 4A4-11, 4A4-12)

- 4A4-07\*** Synthesis and Properties of Cyclic Porphyrin Dimers Linked by Phenothiazines and Anthracenes and Their Inclusion of Fullerenes (IMCE, Kyushu Univ.) SAKAGUCHI, Kenichi; KAMIMURA, Takuya; NOBUKUNI, Hirofumi; ISHIDA, Masatoshi; NARUTA, Yoshinori; UNO, Hidemitsu; TANI, Fumito  
**4A4-09\*** Optical Properties and Supramolecular Assembly Formation of PEG-Coated Semiconductor Clusters (Hokkaido Univ.) FUKUNAGA, Naoto; SHICHIBU, Yukatsu; KONISHI, Katsuaki  
**4A4-11** Molecular design of water-soluble semiconductor clusters directed for sugar recognition (Graduate School of Env. Science, Hokkaido Univ.) WASHIO, Tatsuya; FUKUNAGA, Naoto; SHICHIBU, Yukatsu; KONISHI, Katsuaki  
**4A4-12** Synthesis of tiara-shaped metal thiolate macrocyclic hosts and their functions (Graduate School of Env. Science, Hokkaido Univ.) SEDA, Keita; SHICHIBU, Yukatsu; KONISHI, Katsuaki

Chair: FUJITA, Norifumi (11 : 10~12 : 10)

\* 11:00-11:10: interval for laptop PC connection.(4A4-14, 4A4-16, 4A4-17, 4A4-18, 4A4-19)

- 4A4-14\*** Unique photochemical reactions in nano space of metal complexes and molecular adsorption (Kyoto Univ.; JST-ERATO Kitagawa Project) SATO, Hiroshi; MATSUDA, Ryotaro; KITAGAWA, Susumu  
**4A4-16** Creation of Crystalline Coordination Networks with Proline Helices (Grad. School of Engineering, The Univ. of Tokyo; CREST) MATSUMOTO, Asami; SAWADA, Tomohisa; FUJITA, Makoto  
**4A4-17** Mathematical Control in the Self-Assembly of  $M_nL_{2n}$  Spherical Complexes: Drastic Structural Switch by subtle change in the ligand structures (School of Engineering, The Univ. of Tokyo) YOKOYAMA, Hiroyuki; NUMATA, Eri; ICHIJIO, Tatsuya; SATO, Sota; FUJITA, Makoto

- 4A4-18** M2L2 Molecular Tubes Bearing Anthracene Rings: Catch and Release of Fullerenes (Tokyo Inst. of Tech., Chem. Res. Lab.) KISHI, Norifumi; YOSHIZAWA, Michito; AKITA, Munetaka
- 4A4-19** Aqueous Bowl-Shaped Hosts Bearing Anthracene Rings: Selective Molecular Recognition (Tokyo Inst. of Tech., Chem. Res. Lab.) YAZAKI, Kohei; YOSHIZAWA, Michito; AKITA, Munetaka

### Monday, March 25, PM

Chair: TASHIRO, Shohei (13 : 20~14 : 20)

- \* 13:10-13:20: interval for laptop PC connection.(4A4-27, 4A4-28, 4A4-29, 4A4-30, 4A4-31, 4A4-32)
- 4A4-27** Self-Assembly of Two Kinds of Perylene-Based Boronic Ester Cages and Their Inclusion Abilities (Tokyo Institute of Technology, JST-CREST) TAKATA, Hisatsugu; ONO, Kosuke; IWASAWA, Nobuharu
- 4A4-28** Construction of Supramolecular Structures Based on Pillararene Dimers (Graduate School of Natural Science and Technology, Kanazawa University) YOSHIKOSHI, Kumiko; AOKI, Takamichi; OGOSHI, Tomoki; YAMAGISHI, Tada-aki
- 4A4-29** Di- and Tetra- Pyrene Groups Fictionalized Pillar[5]arenes for Molecular Fluorescence Sensor (Graduate School of Natural Science and Technology, Kanazawa University) KOTERA, Daisuke; YAMAFUJI, Daiki; OGOSHI, Tomoki; YAMAGISHI, Tada-aki
- 4A4-30** Chemically-Responsive Planar-Chirality Inversion of Cyclic pseudo[1] Rotaxane Using Pillar[5]arene as a Platform (Graduate School of Natural Science and Technology, Kanazawa University) AKUTSU, Tomohiro; YAMAFUJI, Daiki; OGOSHI, Tomoki; YAMAGISHI, Tada-aki
- 4A4-31** Amplification of structural asymmetry by addition of achiral Calix[4] arene (Univ. of Kitakyushu ; Chemical & Biochemical) SAKAMOTO, Shunsuke; SANADA, Yusuke; SAKURAI, Kazuo
- 4A4-32** Synthesis and Optical Resolution of *anti*-*O,O'*-Dicarboxymethyl-*p*-Hexalix[4]arene (Ishinomaki Senshu Univ.) HOSHI, Yusuke; SATO, Miku; NARUMI, Fumitaka

Chair: OGOSHI, Tomoki (14 : 30~15 : 30)

- \* 14:20-14:30: interval for laptop PC connection.(4A4-34, 4A4-35, 4A4-36, 4A4-37, 4A4-38, 4A4-39)
- 4A4-34** A cooperative guest inclusion within a metallo-cyclophane possessing four anthracenes and two silver ions on the framework (Grad. School of Science, The Univ. of Tokyo) OMOTO, Kenichio; KURITANI, Masumi; TASHIRO, Shohei; SHIONOYA, Mitsuhiko
- 4A4-35** Silver-mediated Formation of a Porphyrin Dimer and Intercalation of Guest Molecules (The Univ. of Tokyo) NAKAMURA, Takashi; UBE, Hitoshi; SHIONOYA, Mitsuhiko
- 4A4-36** Synthesis of Pyrenocrown Ethers and Their Recognition Ability of Metal Ions (Graduate School of Natural Science and Technology, Kanazawa University) HIROSE, Kenji; MAEDA, Hajime; SEGI, Masahito
- 4A4-37** Formation of Macrocyclic Boronic Esters Containing Metal Complexes (Tokyo Institute of Technology) UCHIKURA, Tatsuhiko; KIKUCHI, Yuji; ONO, Kosuke; IWASAWA, Nobuharu
- 4A4-38** Construction of macrocyclic boronic esters capable of including two different aromatic molecules (Tokyo Institute of Technology) KIKUCHI, Yuji; ONO, Kosuke; IWASAWA, Nobuharu
- 4A4-39** Reversible Borate Gel Formation from Guest-Included Boronic Esters (Tokyo Institute of Technology, JST-CREST) ITO, Suguru; TAKATA, Hisatsugu; ONO, Kosuke; IWASAWA, Nobuharu

## Room A5

CO-LEARNING HOUSE I C107

### Physical Organic Chemistry -Reaction Mechanism-

#### Friday, March 22, PM

Chair: YAMATAKA, Hiroshi (13 : 30~14 : 20)

- \* 13:20-13:30: interval for laptop PC connection.(1A5-28, 1A5-29, 1A5-30, 1A5-31, 1A5-32)
- 1A5-28** Catalytic Oxylactonization of Alkenylbenzoate Mediated by Chiral Hypervalent Iodine (Univ. of Hyogo) SHIMOGAKI, Mio; FUJITA, Morifumi; SUGIMURA, Takashi
- 1A5-29** Asymmetric Synthesis of 12-Hydroxymonocerin Using Chiral Hypervalent Iodine (Univ. of Hyogo) MORI, Kazuhiro; FUJITA, Morifumi; SUGIMURA, Takashi
- 1A5-30** Photoinduced Electron Transfer between  $I_h$  symmetrical fullerenes (Osaka Univ.; ALCA, JST) KAWASHIMA, Yuki; OHKUBO, Kei; FUKUZUMI, Shunichi
- 1A5-31** Catalytic Two-Electron Reduction of Dioxygen with a Triphyrin Derivative (Osaka Univ.; ALCA, JST; Nara Adv. Inst. Sci. Tech.; CREST, JST) OHKUBO, Kei; MASE, Kentaro; XUE, Zhaoli; YAMADA, Hiroko; FUKUZUMI, Shunichi

- 1A5-32** Photochemistry of Flutamide and its Derivatives (Graduate School of Natural Sci. Technol., Fac. Pharmaceutical Sci., Kanazawa Univ.) UDAGAWA, Chikako; WATANABE, Yurie; FUKUYOSHI, Schuichi; ODA, Akifumi; NAKAGAKI, Ryoichi

Chair: OHKUBO, Kei (14 : 30~15 : 20)

- \* 14:20-14:30: interval for laptop PC connection.(1A5-34, 1A5-35, 1A5-37, 1A5-38)
- 1A5-34** Generation of 2,2-dialkoxypropane-1,3-diyls using triplet sensitizer and their reactivity (Hiroshima Univ.;JST-CREST) MIZUNO, Takemi; ABE, Manabu
- 1A5-35\*** Alkoxy-group effect on the lifetime time of singlet diradicals with pair-bonded character (Department of Chemistry, Graduate School of Science, Hiroshima Univ.) NAKAGAKI, Tomoyuki; SAKAI, Tomoko; FUJIWARA, Yoshihisa; ABE, Manabu
- 1A5-37** 1,2-Addition of  $\alpha$ -Aminoalkyl Radicals to Nitrones Driven by Photoinduced Electron Transfer (Shinshu Univ.) ITOH, Kennosuke; KATO, Ryo; SUGA, Hiroyuki
- 1A5-38** Photodehalogenation of Polyhalogenated Biphenyl Sensitized by 2,3-Dimethoxynaphthalene (Fac. of Sci., Niigata Univ.; Grad. Schl. Sci. and Tech., Niigata Univ.) USUI, Satoshi; SATO, Manami; ARAKI, Azusa

Chair: NAKATA, Kazuhide (15 : 30~16 : 10)

- \* 15:20-15:30: interval for laptop PC connection.(1A5-40, 1A5-42)
- 1A5-40\*** Theoretical proposal of novel reaction mechanism for Si-Si bond (Tokyo Tech. Grad. Eng.) HAYASHI, Yoshihiro; OTSU, Shun; NATSUMEDA, Takafumi; KAWAUCHI, Susumu
- 1A5-42\*** Generation of the Excited Trimethylenemethane Biradical Triggered by Intramolecular Triplet Energy-Transfer Reaction upon Double Laser Flash Photolysis (Grad. Sch. of Eng., Osaka Pref. Univ.; Sch. of Eng., Osaka Pref. Univ.; RIMED, Osaka Pref. Univ.) MATSUI, Yasunori; KAWAHARA, Daisuke; OHTA, Eisuke; IKEDA, Hiroshi

Chair: USUI, Satoshi (16 : 20~17 : 20)

- \* 16:10-16:20: interval for laptop PC connection.(1A5-45, 1A5-46, 1A5-47, 1A5-48, 1A5-49, 1A5-50)
- 1A5-45** Theoretical Study on the Domino Reaction by Heat of Reaction (Chiba Institute of Technology) ITOH, Shuhei
- 1A5-46** Withdrawn
- 1A5-47** Substituent effects on the gas-phase acidities of phenylacetic acids (Hosei Univ.; Kyushu Univ.; Osaka City Univ.) NAKATA, Kazuhide; FUJIO, Mizue; NISHIMOTO, Kichisuke; TSUNO, Yuhou
- 1A5-48** A mechanistic study on cyclization/reduction/rearrangement of aryl radical derived from N-(*o*-bromobenzyl)methacrylamides (Yamaguchi University) KOTAKE, Tomoko; KAMIMURA, Akio
- 1A5-49** A Kinetics Study of the Reaction of Phenacyl Halides with Methoxide Ion. (Department of Chemistry, University of Rikkyo) TAGAWA, Kouhei; SASAGAWA, Keita; WAKISAKA, Ken; MONJIYAMA, Syunsuke; YAMATAKA, Hiroshi
- 1A5-50** Kinetic Study of Acyloin Rearrangement under Acidic and Basic Conditions (Rikkyo University, College of Science, Department Chemistry) KUBOUCHI, Daiki; KARINO, Masahiro; UMEYAMA, Shintaro; HAMAOKA, Kazuki; YAMATAKA, Hiroshi

### Physical Organic Chemistry -Structures and Properties-

#### Saturday, March 23, AM

Chair: SATO, Sota (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2A5-01, 2A5-03, 2A5-04, 2A5-06)
- 2A5-01\*** Inclusion of amines from water by crystals of thiacalix[4]arene and its applications (Graduate School of Engineering, Tohoku University) MOROHASHI, Naoya; SHIBATA, Ozora; NAKAYAMA, Hiroko; HATTORI, Tetsutaro
- 2A5-03** A correlation between Molecular structures of Achiral Aromatic Compounds and Chiral Crystallizations (Graduate School of Engineering, Osaka University) MIYANO, Tetsuya; HISAKI, Ichiro; TOHNAI, Norimitsu; MIYATA, Mikiji
- 2A5-04\*** Control of pi-stacked superstructures of octahydro[12]annulene by Introducing Aryl Groups (Graduate School of Engineering, Osaka University) HISAKI, Ichiro; MABNNABE, Noriko; YASUMIYA, Daisuke; TOHNAI, Norimitsu; MIYATA, Mikiji
- 2A5-06** Pore Size Control and Dynamic Behaviors of Porous Organic Salts (POSS) Comprising of 1,4-Bis(sulfophenylethynyl)benzene Derivatives and Alkylamines. (Graduate School of Engineering, Osaka University) HAMADA, Tomoya; YAMAMOTO, Atsushi; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji

Chair: TOHNAI, Norimitsu (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(2A5-08, 2A5-10, 2A5-11, 2A5-12, 2A5-13)
- 2A5-08\*** In situ X-ray observation of a kinetic adsorption process on the pore surface of a porous crystal of macrocyclic Pd(II) complexes (Grad. School of

Science, The Univ. of Tokyo) KUBOTA, Ryou; TASHIRO, Shohei; SHIONOYA, Mitsuhiro

- 2A5-10** Precise coadsorption of multiple guest molecules on the pore surface of a porous crystal of macrocyclic Pd(II) complexes (Grad. School of Science, The Univ. of Tokyo) UMEKI, Tsutomu; KUBOTA, Ryou; TASHIRO, Shohei; SHIONOYA, Mitsuhiro
- 2A5-11** Formation of Fluorous Nanophase by Endo-Functionalization of  $M_{24}L_{48}$  Spherical Complexes and High Solubilization of Fluorous Compounds (The Univ. of Tokyo; CREST) JEONG, Jinu; SATO, Sota; FUJITA, Makoto
- 2A5-12**  $M_nL_{2n}$  Spheres as Bimolecular Interfaces: Interaction of peptide A-beta with ganglioside GM1 cluster regularly arrayed on the surface (School of engineering, The Univ. of Tokyo; Okazaki Inst. for Integrative Bioscience; CREST) YOSHIMASA, Yutaka; FUJITA, Daishi; SATO, Sota; YAGI, Maho; KATO, Koichi; FUJITA, Makoto
- 2A5-13** Template Synthesis of TiO<sub>2</sub> nanoparticles within hollow spherical complexes (School of Engineering, The Univ. of Tokyo; CREST) ICHIJO, Tatsuya; SATO, Sota; FUJITA, Makoto

### Saturday, March 23, PM

Chair: MOROHASHI, Naoya (14:20~15:20)

- \* 14:10-14:20: interval for laptop PC connection.(2A5-33, 2A5-35, 2A5-36, 2A5-37, 2A5-38)
- 2A5-33\*** Semi-quantitative Evaluation of van der Waals Interactions in Self-assembled Nanocubes consisting of Gear-shaped Amphiphiles (The Univ. of Tokyo; Yokohama City Univ.; AIST) OZAWA, Yuka; KOJIMA, Tatsuo; MASHIKO, Takako; YAMADA, Kenta; NAGASHIMA, Umpei; TACHIKAWA, Masanori; HIRAOKA, Shuichi
- 2A5-35** Theoretical analysis of a self-assembly mechanism of gear-shaped amphiphile molecules in solution (Yokohama city Univ.) MASHIKO, Takako; YAMADA, Kenta; NAGASHIMA, Umpei; OZAWA, Yuka; KOJIMA, Tatsuo; HIRAOKA, Shuichi; TACHIKAWA, Masanori
- 2A5-36** Self-assembly and Molecular Recognition of a C<sub>3</sub>-Symmetrical Tris-urea Molecule (Shizuoka Univ.) HIGASHI, Daisuke; YAMANAKA, Masamichi
- 2A5-37** Selective Metal Ion Recognition by Self-assembled Tripodal Tricarboxylic Acid (Shizuoka Univ.) OWAKI, Masaki; MINODANI, Shoichi; YAMANAKA, Masamichi
- 2A5-38** Formation of onion-like supramolecular complexes of cycloparaphenylenes (Institute for Chemical Research, Kyoto Univ.) IWAMOTO, Takahiro; KURACHI, Daisuke; TAKAYA, Hikaru; YAMAGO, Shigeru

Chair: NISHIYABU, Ryuhei (15:30~16:30)

- \* 15:20-15:30: interval for laptop PC connection.(2A5-40, 2A5-41, 2A5-42, 2A5-43, 2A5-44, 2A5-45)
- 2A5-40** Synthesis of a triple-decker Au<sub>3</sub>-Ag-Au<sub>3</sub>-Ag-Au<sub>3</sub> ion cluster templated by a coordination cage (Grad. School of Engineering, The Univ. of Tokyo) OSUGA, Takafumi; MURASE, Takashi; FUJITA, Makoto
- 2A5-41** Conformation Control of Aryl Alkenes in a Self-Assembled Coordination Cage (Grad. School of Engineering, The Univ. of Tokyo) MORI, Kazuyuki; KOHYAMA, Yuh; MURASE, Takashi; FUJITA, Makoto
- 2A5-42<sup>#</sup>** A shrunken cavity of an M<sub>6</sub>L<sub>4</sub> coordination cage with remote bulky substituents and its guest encapsulation (Grad. School of Engineering, The Univ. of Tokyo) FANG, Yu; MURASE, Takashi; SATO, Sota; FUJITA, Makoto
- 2A5-43** Synthesis of a Dumbbell Type of Cavitands as a Ditopic Host (Shizuoka Univ.) KISHIMOTO, Kazuki; ICHIHARA, Keisuke; KOBAYASHI, Kenji
- 2A5-44** Self-Assembly of a Dumbbell Type of Cavitands into a Hydrogen-Bonded Supramolecular Capsule Polymer (Shizuoka Univ.) ICHIHARA, Keisuke; KISHIMOTO, Kazuki; KOBAYASHI, Kenji
- 2A5-45** Formation of hybrid supramolecular capsule and dynamics of encapsulated guest (Faculty of Science, Shizuoka University) NITO, Yuki; KOBAYASHI, Kenji; YAMANAKA, Masamichi

Chair: MURASE, Takashi (16:40~17:20)

- \* 16:30-16:40: interval for laptop PC connection.(2A5-47, 2A5-48, 2A5-49, 2A5-50)
- 2A5-47** Photoresponsive Self-Assembled Cubic Capsule Based on Calix[4]resorcinarene Bearing Dendron-Azobenzene Side Chains (Shizuoka Univ.) SAKANO, Tsubasa; YAMANAKA, Masamichi; KOBAYASHI, Kenji
- 2A5-48** Self-Assembled Boronic Ester Cavitand Capsules with Various Types of Bis(catechol)-Linkers (Shizuoka Univ.) TAMAKI, Kento; KOBAYASHI, Kenji
- 2A5-49** Allosteric-Conjugated Guest Binding Properties of a Benzodiazaborole-Built in Cavitand (Tokyo Metropolitan University) KUBO, Yuji; OTSUKA, Kaoru; OKUYAMA, Sachiko; NISHIYABU, Ryuhei
- 2A5-50** Cavitand Self-Assemblies Built up through Different Kind of Interactions (Tokyo Metropolitan University) TAKEUCHI, Yuya; KONDO, Takuya; NISHIYABU, Ryuhei; KUBO, Yuji

### Sunday, March 24, AM

Chair: YAMADA, Yasuyuki (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(3A5-01, 3A5-02, 3A5-03, 3A5-04, 3A5-05, 3A5-06)
- 3A5-01** Synthetic study toward polycatenane. (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) SAKURAI, Masayoshi; KIHARA, Nobuhiro
- 3A5-02** Synthesis of [3]rotaxane utilizing catalytic oxidative dimerization of alkyne (Faculty of Science, Tokyo University of Science) YAMASHITA, Yoshiaki; MUTOH, Yuichiro; YAMASAKI, Ryu; KASAMA, Takeshi; SAITO, Shinichi
- 3A5-03** Synthesis of Rotaxenanes by Combining Oxidative Coupling of Alkyne and Template Method (Faculty of Science, Tokyo University of Science) HAYASHI, Ryuto; WAKATSUKI, Kota; YAMASAKI, Ryu; MUTO, Yuichiro; KASAMA, Takeshi; SAITO, Shinichi
- 3A5-04** Synthesis and Stability of Large Rotaxanes with Phenanthroline Framework (Faculty of Science, Tokyo University of Science) SAKAI, Kenta; TAKAHASHI, Eiko; WAKATUKI, Kouta; YAMASAKI, Ryu; MUTOH, Yuichiro; SAITO, Shinichi
- 3A5-05** Synthesis of [2]Rotaxanes Using Rigid Macrocycles Containing Aromatic Diimide (Gunma Univ.) KURAHASHI, Noriko; KATOU, Shinichi; NAKAMURA, Yousuke
- 3A5-06** Development of Selective Synthesis of Rotaxane by Cleavage of Host-Guest linked Unit (Graduate School of Engineering, Kyoto University) KANEDA, Motoshi; TERAU, Jun; FUJIHARA, Tethuaki; TSUJI, Yasushi

Chair: SAITO, Shinichi (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(3A5-08, 3A5-10, 3A5-11, 3A5-12)
- 3A5-08\*** Electronic interaction between porphyrin and phthalocyanine in four-fold rotaxane stacked arrays (Nagoya Univ., Research Center for Material Science; Nagoya Univ., Graduate School of Science, Department of Chemistry; CREST, JST) YAMADA, Yasuyuki; ISHIHARA, Yu; IIDA, Hayato; TANAKA, Kentaro
- 3A5-10** Programmable arraying of metal complexes in electrostatic assembly between four-fold rotaxane-type porphyrin/phthalocyanine heterodimer and TPPS (Nagoya Univ., Graduate School of Science, Department of Chemistry; Nagoya Univ., Research Center for Materials Science; Kyoto Univ., Graduate School of Human and Environmental Studies; IMS; Kyoto Univ., Institute for the Promotion of Excellence in Higher Education; CREST, JST) MIHARA, Nozomi; YAMADA, Yasuyuki; SHIBANO, Shinya; OKAMOTO, Mitsuhiro; FURUKAWA, Ko; KATO, Tatsuhisa; TANAKA, Kentaro
- 3A5-11** Synthesis of stacked porphyrin array in ladder-shaped peptide duplex (Nagoya Univ., Graduate School of Science, Department of Chemistry; Nagoya Univ., Research Center for Materials Science; CREST, JST) KUBOTA, Takayuki; YAMADA, Yasuyuki; TANAKA, Kentaro
- 3A5-12\*** Synthesis and Dynamic Motion of Multi-component Molecular Spur Gears with a Diphenylpyrimidinyl Backbone. (Tokyo Inst. of Tech., Chem. Res. Lab.) TSUCHIDO, Yoshitaka; SUZAKI, Yuji; OSAKADA, Kohtarou

Chair: SUZAKI Yuji (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(3A5-15, 3A5-17, 3A5-19, 3A5-20)
- 3A5-15\*** Syntheses and properties of rotaxanes for the one directional translation of wheel component (Dep. of Chemistry, Fac. of Science, Grad. of Kanagawa Univ.) NISHIYAMA, Junya; MAKITA, Yoshimasa; KIHARA, Nobuhiro
- 3A5-17\*** Construction of molecular switch by control of dynamic nature of crown ether-type rotaxane (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) SUZUKI, Sakiko; NAKAZONO, Kazuko; TAKATA, Toshikazu
- 3A5-19** Synthesis of Rotaxane and Catenane using Stable Nitrile *N*-Oxide and their Dynamic Behavior (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) YUKI, Tatsuya; KOYAMA, Yasuhiro; TAKATA, Toshikazu
- 3A5-20** Synthesis of Pseudorotaxanes Having an Azacyclophane as a Wheel Component (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) KUZUME, Michiko; NAKAZONO, Kazuko; TAKATA, Toshikazu

### Sunday, March 24, PM

Chair: TAKATA, Toshikazu (13:30~14:30)

- \* 13:20-13:30: interval for laptop PC connection.(3A5-28, 3A5-29, 3A5-30, 3A5-31, 3A5-32, 3A5-33)
- 3A5-28** Drastic Enhancement of Apparent Solubilities of C<sub>60</sub> by Complexation with Hydrophobic  $\gamma$ -Cyclodextrin (Graduate School of Engineering, Osaka University) MINAKATA, Satoshi; NISHIKORI, Katsuaki; TAKEDA, Youhei
- 3A5-29** Synthesis of pseudorotaxane composed of thiacyclopentane ether and dialkylammonium (Tokyo Inst. of Tech., Chem. Res. Lab.) NAGAI, Hiroyuki; SUZAKI, Yuji; OSAKADA, Kohtarou
- 3A5-30<sup>#</sup>** Effect of Length and Structure of Axle Components on Shuttling Dynamics in [2]Rotaxane Molecular Shuttles (Graduate School of

Engineering Science, Osaka University) YOUNG, Philip G.; HIROSE, Keiji; TOBE, Yoshito

**3A5-31** Characteristics of "Molecular Nuts" Based on the Chiral Fixation of Ethynylpyridine Oligomers (Graduate School of Pharmaceutical Sciences, University of Toyama) KAYAMORI, Fumihiko; ABE, Hajime; INOUE, Masahiko

**3A5-32** CD Enhancement Effects on *meta*-Ethynylpyridine Oligomer by Rotaxane Formation in Thermodynamic Imine-Forming Equilibrium (Graduate School of Pharmaceutical Sciences, Univ. of Toyama) TAKASHIMA, Shunsuke; ABE, Hajime; INOUE, Masahiko

**3A5-33** Synthesis and Characteristics of Chiral Ethynylpyridine Polymers Bearing Chiral Amido Group as Side Chains (Graduate School of Pharmaceutical Sciences, Univ. of Toyama) MAKIDA, Hiroki; ABE, Hajime; INOUE, Masahiko

Chair: TASHIRO, Shohei (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(3A5-35, 3A5-36, 3A5-37, 3A5-38, 3A5-39, 3A5-40)

**3A5-35** Synthesis and Characteristics of Ethynylpyridine Macrocycles with  $D_{3h}$  Symmetry (Graduate School of Pharmaceutical Sciences, Univ. of Toyama; Graduate School of Environment and Information Sciences, Yokohama National University) OHTANI, Kohei; SUZUKI, Daiki; SHIMADA, Yuta; MATSUMOTO, Shinya; ABE, Hajime; INOUE, Masahiko

**3A5-36** Self-Complementary Hydrogen Bonding of Alternating Cooligomers of Pyridine and Phenol Rings Linked with Acetylene Bonds (Graduate School of Pharmaceutical Sciences, Univ. of Toyama) OHISHI, Yuki; KAWASUMI, Hisao; ABE, Hajime; INOUE, Masahiko

**3A5-37** Helical Self-Organization of Pyridine-Thiophene Alternating Oligomers (Nagoya Institute of Technology) KODAMA, Naoki; KURITA, Shigeki; SUZUKI, Takanori; OHKITA, Masakazu

**3A5-38** Helicity Induction of Cage-Like Porphyrinoid (Dept. Chem. Div. Sci. Kobe Univ.) OYAMA, Yuto; SETSUNE, Jun-ichiro

**3A5-39** Supramolecular Assemblies Based on Appropriately Arranged Multiple Anion-Responsive Units (College of Pharmaceutical Sciences, Ritsumeikan University) MAEDA, Hiromitsu; SHIRAI, Tomohiro

**3A5-40** Probing Self-Folding Behaviors of Oligosaccharide in Newly Synthesized Oligoamylose-Strapped Porphyrin (Kyoto Inst. Tech.) MORISUE, Mitsuhiko; IWAYA, Naoki; SHIMIZU, Masaki; KURODA, Yasuhisa

Chair: MORISUE, Mitsuhiko (15 : 50~16 : 50)

\* 15:40-15:50: interval for laptop PC connection.(3A5-42, 3A5-43, 3A5-44, 3A5-45, 3A5-46)

**3A5-42** Allosteric helicity inversion in tris(2,2'-bipyridine) metal complexes (Graduate School of Science, Osaka City University) MIYAKE, Hiroyuki; SAKAMOTO, Tatsuya; OHARA, Kazuaki; YAMAGUCHI, Kentaro; TSUKUBE, Hiroshi

**3A5-43** Synthesis and Supramolecular Structure of a Magnetically Diluted Crystal Composed of Trinuclear Triple-helicates Using Sexiimidazoles (Graduate School of Science, Osaka University) NOBUKUNI, Hirofumi; MURATA, Tsuyoshi; MORITA, Yasushi

**3A5-44** Efficient Successive Reaction on Polymer using A Macrocyclic Catalyst Having Palladium in the Cavity (Department of Organic and Polymer Materials, Tokyo Institute of Technology) NAGASHIMA, Masaki; OGAWA, Masahiro; KAWASAKI, Ayumi; KOYAMA, Yasuhito; TAKATA, Toshikazu

**3A5-45** Synthesis and structure of poly(phenylene diethynylene)s having rotaxane moieties with molecular chirality in the side chain. (Department of Organic and polymeric Materials, Tokyo Institute Of Technology) MATSUURA, Kazuki; NAKAZONO, Kazuko; TAKATA, Toshikazu

**3A5-46\*** Precise Design and Structural Control of One-Handed Helical Foldamer Based On A  $C_2$ -Chiral Spirofluorene skeleton (Dept. of Organic and Polymeric Materials, Tokyo Inst. of Tech.) OKUDA, Hitoshi; KOYAMA, Yasuhito; UCHIDA, Satoshi; TAKATA, Toshikazu

Chair: ABE, Hajime (17 : 00~18 : 00)

\* 16:50-17:00: interval for laptop PC connection.(3A5-49, 3A5-51, 3A5-53, 3A5-54)

**3A5-49\*** Design and Synthesis of Novel Helically Twisted [1+1]Macrocycles Utilizing Amidinium-Carboxylate Salt Bridge Formation and Control of Their Chiroptical Properties (Graduate School of Engineering, Nagoya University) NAKATANI, Yuji; FURUSHO, Yoshio; YASHIMA, Eiji

**3A5-51\*** Construction of a coordination-driven metallo-foldamer with artificial oxime-peptides and its reversible structural conversion (Grad. School of Science, The Univ. of Tokyo) TASHIRO, Shohei; MATSUOKA, Koji; SHIONOYA, Mitsuhiko

**3A5-53** Construction of metallo-foldamers with various metal ions through complexation of water-soluble oxime-peptides (Grad. School of Science, The Univ. of Tokyo) TAKAMATSU, Yoshinori; MATSUOKA, Koji; TASHIRO, Shohei; SHIONOYA, Mitsuhiko

**3A5-54** Synthesis and Guest Recognition of a Helical Cryptand-type Trisaloph Metallohost (Faculty of Pure and Applied Sciences, University of Tsukuba) MIYASHITA, Masato; AKINE, Shigehisa; NABESHIMA, Tatsuya

## Monday, March 25, AM

Chair: SAITO, Shohei (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(4A5-01, 4A5-02, 4A5-04, 4A5-06)

**4A5-01** Mechanism of Intramolecular Fluorescence Quenching of Diimidazo [1,2- $\alpha$ :2',1'- $\epsilon$ ]quinoxalium Salts (Graduate School of Engineering, Chiba University) MATSUMOTO, Shoji; ABE, Hajime; AKAZOME, Motohiro

**4A5-02\*** Developments of dynamic equilibrium system in solution and diverse functionalities in film for lipophilic boron difluoride  $\beta$ -diketonate complexes (Kimizuka Laboratory, Department of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University) OGAWA, Shigesaburo; MORIKAWA, Masa-aki; KIMIZUKA, Nobuo

**4A5-04\*** Emission Properties of Aminopyridine Origomers (Univ. of Tsukuba TMS) UCHIDA, Natuko; KUWABARA, Junpei; NISHIMURA, Yoshinobu; KANBARA, Takaki

**4A5-06** Development of a Photochromic Nanoring Composed of a Macrocyclic Octapyrrole (Graduate School of Science, Kobe University) NAKAMURA, Daichi; SAKATA, Yoko; SETSUNE, Jun-ichiro; TSUDA, Akihiko

Chair: ARAKI, Yasuyuki (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(4A5-08, 4A5-09, 4A5-11, 4A5-12, 4A5-13)

**4A5-08** Synthesis and Properties of  $\pi$ -Extended Thiadiazoles Fused with Benzothienopyrrole or Benzofuroprrole Moieties (Gunma Univ.) FURUYA, Takayuki; KATO, Shin-ichiro; NAKAMURA, Yosuke

**4A5-09\*** Synthesis, Properties, and Reactivity of Carbazole Dimers Linked by Various Spacers (Graduate School of Engineering, Gunma University) NOGUCHI, Hiroto; KATO, Shin-ichiro; NAKAMURA, Yosuke

**4A5-11** Synthesis and Properties of Pyrimidine Derivatives Bearing Carbazole Moieties at 4- and 6-Positions (Gunma Univ.; Ihara Chemical Industry Co. Ltd.) YAMADA, Yuji; HIYOSHI, Hidetaka; UMEZU, Kazuto; KATO, Shin-ichiro; NAKAMURA, Yosuke

**4A5-12** Preparations and Photophysical Properties of Emitting Quinoline Derivatives Having N-substituted Amine Group (Grad. Sch. Pharm. Sci., Kyushu Univ.) TODO, Junichi; HARADA, Naomi; KARASAWA, Satoru; KOGA, Noboru

**4A5-13** Preparation of 1,5-Naphthyridine Derivatives and Their Alternations of Fluorescence in Response to External Environments (Grad. Sch. Pharm. Sci., Kyushu Univ.) HARADA, Naomi; KARASAWA, Satoru; KOGA, Noboru

Chair: KATO, Shin-ichiro (11 : 20~12 : 40)

\* 11:10-11:20: interval for laptop PC connection.(4A5-15, 4A5-17, 4A5-18, 4A5-19, 4A5-20, 4A5-21)

**4A5-15\*** Optical Probe with Phenol Derivatives in Solid-State (NIMS) MORI, Taizo; AKAMATSU, Masaaki; OKAMOTO, Ken; SUMITA, Masato; TATEYAMA, Yoshitaka; SAKAI, Hideki; HILL, Jonathan; ABE, Masahiko; ARIGA, Katsuhiko

**4A5-17** circularly polarized luminescence of chiral perylene diimide detected with an internal standard and its application to the time-resolved spectroscopy (IMRAM, TOHOKU UNIV.) ARAKI, Yasuyuki; MURAKAMI, Makoto; SAKAMOTO, Seiji; WADA, Takehiko

**4A5-18** Synthesis, Photophysical and Photofunctional Properties of Novel Azobenzene Derivatives Having Hetero-atom Substituents (Hokkaido Univ.; PRESTO, JST; Univ. North Carolina at Chapel Hill) TAKAHASHI, Hiroto; SAKUDA, Eri; ITO, Akitaka; KITAMURA, Noboru

**4A5-19** An Investigation on Fluorescence Behavior of Cofacially Stacked Chromophores by Rate Constants (Grad. School of Eng., Kyoto Univ.) TSUNOI, Yohei; HIROSE, Takashi; FUJIMORI, Yuya; MATSUDA, Kenji

**4A5-20** Synthesis of carbazole-annulated metallophthalocyanines and their photochemical properties (Faculty of Textile Science and Technology, Shinshu university) TOHATA, Yuki; SUZUKI, Hiroyuki; KIMURA, Mutsumi

**4A5-21\*** Model of Avian Magnetic Compass-Artificial Radical Pair System Induced by Blue Light (Univ. of Toyama) OKA, Yoshimi; SEKI, Takayuki

## Monday, March 25, PM

Chair: ISHIMARU, Yoshihiro (13 : 50~14 : 50)

\* 13:40-13:50: interval for laptop PC connection.(4A5-30, 4A5-31, 4A5-32, 4A5-33, 4A5-34, 4A5-35)

**4A5-30** Preparation and properties of dicationic species with a rigid arylene spacer framework (Hokkaido Univ.) SUZUKI, Takanori; CHIBA, Yuna; HOSHIYAMA, Yuki; KATOONO, Ryo; FUJIWARA, Kenshu

**4A5-31** Preparation and electrochiroptical response of tetraaryldihydrothiepin derivatives fused with a configurationally stable biaryl skeleton (Hokkaido Univ.) SUZUKI, Takanori; KURODA, Takuma; HIGASA, Sho; KATOONO, Ryo; FUJIWARA, Kensyu; YAMADA, Hidetoshi

**4A5-32** Chiroptical Properties of Stable Chiral Allene Having Tetrathiafulvalenes (School of Science, Kitasato University) HASEGAWA, Masashi; IWATA, Seiya; MATSUZAWA, Hideyo; MAZAKI, Yasuhiro

**4A5-33** Synthesis and Chiroptical Properties of Novel Donor Molecules

installed into Chiral Spiro Framework (School of Science, Kitasato Univ.) KUREBAYASHI, Daisuke; HASEGAWA, Masashi; YOSHIDA, Jun; MATSUZAWA, Hideyo; MAZAKI, Yasuhiro

**4A5-34** A new material synthesis using hydroquinone dimmers (Yamaguchi University) NASU, Kotaro; WATANABE, Ryusuke; NOKUBI, Tomomi; KAMIMURA, Akio

**4A5-35** Synthesis and Properties of Teranthenequinone Derivatives Prepared by Cyclization Reaction of Bianthrone Derivatives Inserted with Acenes (Graduate School of Science, Osaka University) SAGAYAMA, Kensuke; KONISHI, Akihito; KURATA, Hiroyuki; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KUBO, Takashi

## Room A6

### CO-LEARNING HOUSE I C202

### Colloid and Interface Chemistry

Friday, March 22, AM

Chair: TERANISHI, Toshiharu (10 : 00~11 : 00)

\* 9:50-10:00: interval for laptop PC connection.(1A6-07, 1A6-09, 1A6-10, 1A6-11, 1A6-12)

**1A6-07<sup>#</sup>** Enhanced Rapid and High-Capacity Hydrogen Storage in Pd Nanocrystals Induced by Metal-Organic Framework (Grad. Sch. Sci., Kyoto Univ.) LI, Guanchin; KOBAYASHI, Hirokazu; KITAGAWA, Hiroshi; KUBOTA, Yoshiki; TOH, Shoichi; YAMAMOTO, Tomokazu; MATSUMURA, Syo

**1A6-09** Preparation of pure aqueous colloids of isoflavone and its toxicity to Hela cells (Ehime Univ.) NGUYEN THI YEN MINH, Minh; YOSHIOKA, Yuki; TAMURA, Minoru; ASAHI, Tsuyoshi

**1A6-10** Relaxation Processes of Photoexcited Carriers in Semiconductor Nanoparticle-Au Hybrid Nanostructures (School of Science and Technology, Kwansai Gakuin University) OKUHATA, Tomoki; KOBAYASHI, Yoichi; NONOGUCHI, Yoshiyuki; KAWAI, Tsuyoshi; TAMAI, Naoto

**1A6-11** Exciton dynamics of ZnS-AgInS<sub>2</sub> nanoparticles with various compositions (Kwansai Gakuin Univ.) OKIMOTO, Saki; NISHI, Hiroyasu; TORIMOTO, Tsukasa; MASUO, Sadahiro; TAMAI, Naoto

**1A6-12** Surface modification of anionic-terminated POSS-core dendrimer-calcium carbonate composite particles (Grad. Sch. of Sci. and Tech., Kyoto Inst. of Tech.) NAKAMURA, Shihou; NAKA, Kensuke

Chair: KUWABATA, Susumu (11 : 10~12 : 10)

\* 11:00-11:10: interval for laptop PC connection.(1A6-14, 1A6-16, 1A6-18, 1A6-19)

**1A6-14<sup>\*</sup>** Controlling of Size and Anisotropy of Nanoparticles using Rigid Multidentate Ligands (ICR, Kyoto Univ.) SAKAMOTO, Masanori; TANAKA, Daisuke; TERANISHI, Toshiharu

**1A6-16<sup>\*</sup>** Preparation of chiral plasmonic polysaccharide-silver nanoparticles composite (Institute of Systems, Information Technologies and Nanotechnologies) TSUCHIYA, Youichi; NOGUCHI, Takao; YOSHIHARA, Daisuke; SHINKAI, Seiji

**1A6-18** Synthesis of amino functionalized gold nanoparticles using octa(3-aminopropyl)octasilsequioxane (Grad. Sch. of Sci. and Tech., Kyoto Inst. of Tech.) SUZUKI, Shigeyoshi; NAKA, Kensuke

**1A6-19** Surface modification of poly(acrylic acid)-calcium carbonate composite particles by addition of alkylamine hydrochloride (Grad. Sch. of Sci. and Tech., Kyoto Inst. of Tech.) MINAMI, Takayuki; NAKA, Kensuke

Friday, March 22, PM

Chair: AKAMATSU, Kensuke (13 : 20~14 : 20)

\* 13:10-13:20: interval for laptop PC connection.(1A6-27, 1A6-29, 1A6-30, 1A6-31, 1A6-32)

**1A6-27<sup>\*</sup>** Formation of Au particles in Ionic Liquid at Nanopore by X-ray Irradiation (Osaka Univ.; JST/CREST) IMANISHI, Akihito; ARIMURA, Takashi; SAKAMOTO, Taiki; TSUDA, Tetsuya; KUWABATA, Susumu; FUKUI, Ken-ichi

**1A6-29** Effects of Core/Shell Nanostructured Materials on Hydrogen-Storage Property of Pd-Pt Nanoparticles (Kyoto Univ.) KOBAYASHI, Hirokazu; KITAGAWA, Hiroshi

**1A6-30** Synthesis and Phase Behavior of Coordination-Polymer-Coated AgI Nanoparticles (Kyoto Univ., Graduate School of Science; Kyushu Univ., IRCMS; JST-CREST; Kyoto Univ., iCeMS) YAMAMOTO, Takayuki; YAMADA, Teppi; KOBAYASHI, Hirokazu; KITAGAWA, Hiroshi

**1A6-31** Construction and Functional Assessment of Long-persistence Phosphor Nanoparticles with Biocompatibility (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) TANIGUCHI, Nobuko; TAKI, Masayasu; YAMAMOTO, Yukio

**1A6-32** Behavior of spherical polystyrene particles at an oil-water interface under an electric field (IAE, Kyoto Univ.) TSUCHIYA, Kiyoto; KOZAWA,

Daichi; SUGIMAN, Nao; GISLE, Oye; FUKAMI, Kazuhiro; OGATA, Yukio; SAKKA, Tetsuo

Chair: TANAKA, Hideki (14 : 30~15 : 30)

\* 14:20-14:30: interval for laptop PC connection.(1A6-34, 1A6-36, 1A6-38, 1A6-39)

**1A6-34<sup>\*</sup>** Fabrication of nanocomposite materials by self-assembly of metal-organic frameworks on inorganic nanoparticles (FIRST, Konan Univ.) TSURUOKA, Takaaki; OHASHI, Takashi; UESAKA, Akinori; MATSUYAMA, Tetsuhiro; MURAKAMI, Kazuhiro; NAWAFUNE, Hidemi; AKAMATSU, Kensuke

**1A6-36<sup>\*</sup>** Synthesis of anisotropic nanostructures containing gold nanoparticles (FIRST, Konan Univ.) MIYANOHATA, Ryo; MATSUSHITA, Taro; TANAKA, Syunpei; TSURUOKA, Takaaki; NAWAFUNE, Hidemi; AKAMATSU, Kensuke

**1A6-38** Preparation and Behavior under Light Irradiation of Au Nanoparticles Protected with Dihexylbithiophene Derivatives with Different Isomeric Structures (JAIST; Shizuoka Univ.; Toyama Univ.) MIYABAYASHI, Keiko; KAMEI, Yuusuke; HAYASHI, Naoto; HIGUCHI, Hiroyuki; MIYAKE, Mikio

**1A6-39** Surface Modification of Europium Hydroxide Nanorods using Layer-by-Layer Assembling Technique (Tokyo Univ. of Sci.) KASAHARA, Takaya; TOI, Tomohiro; HASHIZUME, Mineo

Chair: TAMAI, Naoto (15 : 40~16 : 40)

\* 15:30-15:40: interval for laptop PC connection.(1A6-41, 1A6-43, 1A6-44, 1A6-45, 1A6-46)

**1A6-41<sup>\*</sup>** Supracrystal Assembly of Polyhedral Metal-Organic Framework Colloids (Kyushu University; CMS) YANAI, Nobuhiro; SINDORO, Melinda; GRANICK, Steve

**1A6-43** Study of Ag triangular nanoplates with  $\lambda$  DNA : Surface structure and chiroptical analyses (Chuo University) ITO, Taihei; NISHIDA, Naoki; TANAKA, Hideki

**1A6-44** Plasmon-induced CD response of Ag triangular nanoplates (Chuo University) NISHIDA, Naoki; KOJIMA, Yasuhiro; TANAKA, Hideki

**1A6-45** Synthesis of CuZnS Nanoparticles as Energy Conversion Materials (School of Materials Science, JAIST) SHIMOSE, Hiroyuki; MOTT, Derrick; MAENOSONO, Shinya

**1A6-46** Synthesis of Silica Nanoparticles Incorporating Fluorescent Rare Earth Metal Complex via Chemical Bonding and Evaluation of Their Fluorescence Behaviors in Aqueous Solution (Faculty of Systems Engineering, Wakayama University) TATSUMI, Yoichi; NAKAHARA, Yoshio; AKIMOTO, Ikuko; KIMURA, Keichi

Chair: IMANISHI, Akihito (16 : 50~17 : 50)

\* 16:40-16:50: interval for laptop PC connection.(1A6-48, 1A6-50, 1A6-52, 1A6-53)

**1A6-48<sup>\*</sup>** Effect of Surfactant Concentration on the Elongation of Gold Nanorods (Nanosystem RI, AIST) TAKENAKA, Yoshiko; KAWABATA, Youhei; KITAHATA, Hiroyuki; OHZONO, Takuya

**1A6-50<sup>\*</sup>** Synthesis of ZnS and ZnS/Noble Metal Heterostructured Nanoparticles and Their Optical Properties (Univ. of Tsukuba; Kyoto Univ.) IKEDA, Takahiro; SAKAMOTO, Masanori; TERANISHI, Toshiharu

**1A6-52<sup>#</sup>** Electrooxidation of ethylene glycol on Fe-Co-Ni nanoalloy electrocatalysts under alkaline condition (WPI-I2CNER, Kyushu Univ.; CRC, Hokkaido Univ.; Graduate school of Engineering, Kyoto Univ.; JST-CREST) OOI, Mei Lee; SADAKIYO, Masaaki; YAMAUCHI, Miho; ARIKAWA, Hidekazu; TAKEGUCHI, Tatsuya; ABE, Ryu

**1A6-53** Aggregation Control of Gold Nanoparticles by Photoisomerization of Spirothiopyran Derivative (Osaka Univ.) TANAKA, Kazuya; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki

Saturday, March 23, AM

Chair: IKEDA, Shigeru (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(2A6-01, 2A6-03, 2A6-04, 2A6-05, 2A6-06)

**2A6-01<sup>#</sup>** Selective Synthesis and Plasmonic Properties of Polyhedral Au Nanoparticles (Univ. of Tsukuba; Kyoto Univ.) WU, Hsin-lun; SATO, Ryota; TERANISHI, Toshiharu

**2A6-03** Phase Transition of Organic Nanoparticles (Yamaguchi Univ.) KAKUICHI, Masaki; KASATANI, Kazuo; MORITA, Yuki

**2A6-04** Graphene film prepared by anhydrous low-voltage electrodeposition (Yamagata University) UNO, Ryoutaro; SANO, Masahito

**2A6-05** Characterization of Graphene in Tris-buffer (Yamagata University) MASUDA, Katuya; SANO, Masahito

**2A6-06** Preparation and characterization of graphene/dopant laminated film by wet process (Yamagata University) TSUJIMOTO, Yusuke; OKIMOTO, Haruya; SOBE, Yuhei; SANO, Masahito

Chair: SANO, Masahito (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(2A6-08, 2A6-10, 2A6-12, 2A6-13)

**2A6-08<sup>\*</sup>** Synthesis and Interface Interaction of Porphyrin Face-Coordinated Au Clusters (Univ. of Tsukuba; Kyoto Univ.; CREST-JST) TANAKA,

Daisuke; SAKAMOTO, Masanori; TERANISHI, Toshiharu

**2A6-10\*** Accelerated and supersaturated dissolution of poorly water-soluble drugs by additive-free nano-sizing. (Tohoku Univ.; Suntory business Expert Co.Ltd) ARITA, Toshihiko; MANABE, Noriyoshi; KISHIGAMI, Mizue; NAKAHARA, Koichi

**2A6-12** Preparation and evaluation of CdSe quantum dots directly-coated with TiO<sub>2</sub> (AIST; Kwansai Gakuin Univ.) HIRAI, Takayoshi; LI, C.L.; ANDO, Masanori; MURASE, Norio; TAMAI, Naoto

**2A6-13** Effect of Axial Ligands on the Generation of Gold Nanoparticles on the Clay Surface by Dye-sensitization Reaction Using Porphyrin Derivatives (Tokyo Metropolitan Univ.) YOSHIDA, Yuma; FUJIMURA, Takuya; MASUI, Dai; TACHIBANA, Hiroshi; INOUE, Haruo; SHIMADA, Tetsuya; TAKAGI, Shinsuke

Chair: NAKAYA, Masafumi (11 : 20~12 : 00)

\* 11:10-11:20: interval for laptop PC connection.(2A6-15, 2A6-17, 2A6-18)

**2A6-15\*** A New Binding Motif of Bulky Arenethiolates on a Gold Cluster (Department of Chemistry, School of Science, The University of Tokyo) NISHIGAKI, Jun-ichi; YAMAZOE, Seiji; MATSUO, Tsukasa; TAMAO, Kohei; TSUKUDA, Tatsuya

**2A6-17** Synthesis and characterization of Cu-Sb-S nanoparticles (Research Center for Solar Energy Chemistry, Osaka University) TOKAI, Yuji; HARADA, Takashi; IKEDA, Shigeru; MATSUMURA, Michio

**2A6-18<sup>#</sup>** Plasmonic Properties of Nonstoichiometric Copper Sulfide Semiconductor Nanoparticles (Univ. of Tsukuba; Kyoto Univ.) CHEN, Lihui; YOSHINAGA, Taizo; KANEHARA, Masayuki; SAKAMOTO, Masanori; TERANISHI, Toshiharu

### Saturday, March 23, PM

Chair: NEGISHI, Yuichi (13 : 10~14 : 10)

\* 13:00-13:10: interval for laptop PC connection.(2A6-26, 2A6-28, 2A6-30, 2A6-31)

**2A6-26\*** Control of Crystal Structure of Iron Oxide Nanoparticles and their Magnetic Properties (IMRAM, Tohoku Univ.) NAKAYA, Masafumi; NISHIDA, Ryo; MURAMATSU, Atsushi

**2A6-28\*** Plasmonic Manipulation of Color and Morphology of Single Silver Nanoparticles (IIS, The Univ. of Tokyo) TANABE, Ichiro; TATSUMA, Tetsu

**2A6-30** Spectroscopic Properties of Silver Nano-Particles Covered with Aggregates of Porphyrin Dye (Univ. of Tsukuba) KATAYAMA, Mikimasa; SANDO, Yoshinori; OOKI, Yuuki; SATO, Tomoo

**2A6-31** Size Increase of Thermally-resistant Gold Nanoparticles (Tokyo National College of Technology; Toshiba Research & Development Center) OKUMURA, Atsushi; TSUCHIDO, Yoshitaka; YAMADA, Kou; TODORI, Kenji; MACHIDA, Shigeru

Chair: KAWAI, Takeshi (14 : 20~14 : 40)

\* 14:10-14:20: interval for laptop PC connection.(2A6-33)

**2A6-33\*** Auto-Reduction Mechanism of Metal Ions with Hydrophilic Block Copolymer containing Pyridine Unit (Department of Applied Chemistry, Faculty of Science, Tokyo University of Science) MATSUKUMA, Daisuke; IKENAGA, Yusuke; MAEJIMA, Yuki; FUJIKURA, Hirofumi; KOBAYASHI, Yirika; OTSUKA, Hidenori

Chair: KAWAI, Takeshi (16 : 50~17 : 00)

\* 16:40-16:50: interval for laptop PC connection.(2A6-48)

**2A6-48** Mass spectrometry study of precisely synthesized platinum clusters (Chem. Res. Lab., Tokyo Ins Tech. ; Tokyo Univ. Sci.) TSUCHIYA, Shohgo; IMAOKA, Takane; YAMAMOTO, Kimihisa

Chair: KANIE, Kiyoshi (17 : 10~17 : 40)

\* 17:00-17:10: interval for laptop PC connection.(2A6-50, 2A6-52)

**2A6-50\*** Synthesis of selenolate-protected Au<sub>25</sub> cluster with special high stability (Tokyo University of Science) KURASHIGE, Wataru; YAMAGUCHI, Masaki; NEGISHI, Yuichi

**2A6-52** Synthesis and synergy effects of M<sub>n</sub>Au<sub>25-n</sub>(SeR)<sub>18</sub>(M=alkali metal) (tokyo university of science graduated school of chemical science and technology/Institute for molecular science) MUNAKATA, Kenta; KURASHIGE, Wataru; OHGAKE, Wataru; NOBUSADA, Katsuyuki; NEGISHI, Yuichi

### Sunday, March 24, AM

Chair: SHIRAHATA, Naoto (9 : 00 ~10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(3A6-01, 3A6-03, 3A6-04, 3A6-05, 3A6-06)

**3A6-01\*** Visible light-driven photocatalyst with gold nanoparticle 2D array (NIMS) ISOZAKI, Katsuhiko; PINCELLA, Francesca; MIKI, Kazushi

**3A6-03** Application of porous diamond spherical particles to column packing material (Tokyo Univ. of Sci.) KONDO, Takeshi; KOBAYASHI, Mari; KADOTA, Yasuhiko; YUASA, Makoto

**3A6-04** Controlling pore properties of porous diamond spherical particle (Faculty of Science and Technology, Tokyo Univ. of Sci) SAITO, Toru; KONDO, Takeshi; YUASA, Makoto

**3A6-05** Synthesis and Properties of Chiral Polypyrrolidone-protected Metal Nanoclusters (Kinki Univ. Faculty of Science and Engineering) HARAGUCHI, Yu; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

**3A6-06** Fabrication of hybrid silica particles covered with dendritic Au nanowires (Tokyo Univ. of Science) MORI, Takuya; MORITA, Clara; IMURA, Yoshiro; ENDO, Hiroshi; KAWAI, Takeshi

Chair: ITO, Kensaku (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(3A6-08, 3A6-10, 3A6-11, 3A6-12, 3A6-13)

**3A6-08\*** Color Tuning of Emission from Ge Nanoparticles (National Institute for Materials Science) SHIRAHATA, Naoto; GHOSH, Batu

**3A6-10** Fabrication of Pd and Pt nanorings using soft-template of molecular assembly of a long-chain amide-amine derivative (Department of Industrial Chemistry, Tokyo Univ. of Science) WATANABE, Sayaka; ENDO, Hiroshi; KAWAI, Takeshi

**3A6-11** Fabrication of 2D net-like Au films by light irradiation onto Langmuir monolayer of AuNPs (Tokyo University of Science) ITO, Naoyuki; ENDO, Hiroshi; KAWAI, Takeshi

**3A6-12** Preparation of Semiconductor Nanocrystals Capped with Chiral Ligands (Nara Inst. Sci. Tech.) TSUJI, Tomoki; NAKASHIMA, Takuya; KAWAI, Tsuyoshi

**3A6-13** Correlation between Physicochemical Properties and Activity for Alcohol Oxidation over Multimetallic Nanoparticle Catalysts. (Japan Adv. Inst. of Sci. Tech.; Sch. of Mater. Sci.) TAKAHASHI, Takamasa; NISHIMURA, Shun; EBITANI, Kohki

Chair: TAKEDA, Shinich (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(3A6-15, 3A6-17, 3A6-18, 3A6-19, 3A6-20)

**3A6-15\*** Effect of electron transfer in the AuPd bimetallic nanoparticle for selective alcohol oxidation reaction (Japan Adv. Inst. of Sci. Tech.; Sch. of Mater. Sci.) NISHIMURA, Shun; YAKITA, Yusuke; KATAYAMA, Madoka; HIGASHIMINE, Koichi; EBITANI, Kohki

**3A6-17** Synthesis and Properties of Multiphosphine-functionalised Chiral Metal Nanoclusters (Kinki Univ. Faculty of Science and Engineering) YASUTAKE, Ryo; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

**3A6-18** Synthesis and photoelectrochemical property of ZnSe-AgInSe<sub>2</sub> solid solution nanoparticles (Nagoya Univ.) DOKE, Yusuke; SASAMURA, Tetsuya; KAMEYAMA, Tatsuya; KUWABATA, Susumu; TORIMOTO, Tsukasa

**3A6-19** Preparation and Structure Control of Composite Nanoparticles Dispersed in Ionic Liquid via Cu-Sputter Deposition (Department of Crystalline Materials Science, Nagoya Univ.) MORIMOTO, Atsumi; KAMEYAMA, Tatsuya; KUWABATA, Susumu; TORIMOTO, Tsukasa

**3A6-20** Comparative Study on SERS Sensitivity of Au-Ag Alloy and Au@Ag Core-Shell Nanoparticles (School of Materials Science, JAIST) HOTTA, Daisuke; DAO, Thi Ngoc Anh; MOTT, Derrick; MAENOSONO, Shinya

### Sunday, March 24, PM

Chair: MAENOSONO, Shinya (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(3A6-28, 3A6-30, 3A6-31, 3A6-32, 3A6-33)

**3A6-28\*** Polymer Brush-based Capsules using Colorless Polydopamine Thin Layer as a Foundation (Graduate School of Engineering, Chiba University) KOHRI, Michinari; KOHMA, Hiroto; SHINODA, Yoshihiro; TANIGUCHI, Tatsuo; KISHIKAWA, Keiki

**3A6-30** Water Dispersibility of the Complex between Peptides and Poorly Water Soluble Bioactive Substances (Univ. of Miyazaki) OSHIMA, Tatsuya; MATSUSHITA, Nao; YAMASHITA, Risa; BABA, Yoshinari

**3A6-31** Preparation and analysis of the complex between peptides and indomethacin (Univ. of Miyazaki) INADA, Asuka; OSHIMA, Tatsuya; BABA, Yoshinari

**3A6-32** Plasmon Sensing Response of Antibacterial-Peptide-Modified Gold Nanoparticle to Vesicle Mimicking Cell Membrane of Methicillin-Resistant Staphylococcus Aureus (Wakayama University, Faculty of Systems Engineering) TOKUTSU, Yuya; KADO, Shinpei; NAKAMURA, Makoto; NAKAHARA, Yoshio; KIMURA, Keiichi

**3A6-33** Synthesis of Silicon Quantum Dots Coated with Water-Soluble Polymers Using Atomic Transfer Radical Polymerization and Their Fluorescence Properties in Aqueous Solution (Faculty of Systems Engineering, Wakayama University) MACHIYA, Kazuki; NAKAHARA, Yoshio; KIMURA, Keiichi

Chair: KAMEYAMA, Tatsuya (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(3A6-35, 3A6-36, 3A6-37, 3A6-38, 3A6-39, 3A6-40)

**3A6-35** Solvothermal Synthesis of Gallium-Doped Zinc Oxide Nanoparticles for Ink-Coating and their Electrical Conductivity (IMRAM, Tohoku Univ.) TAKEYA, Shunsuke; KANIE, Kiyoshi; NAKAYA, Masafumi; MURAMATSU, Atsushi

**3A6-36** Synthesis and Properties of Chiral Organic Molecule-protected Copper Nanoclusters (Kinki Univ. Faculty of Science and Engineering) IMANAKA, Yu; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

- 3A6-37** Synthesis and Properties of Thiophene Polyselenide-protected Metal Nanoparticles (Kinki Univ. Faculty of Science and Engineering) UEKI, Yuto; NAKAHODO, Tsukasa; FUJIHARA, Hisashi
- 3A6-38** Hydrogen-Induced Structural Ordering of AuCu Nanoalloys Probed by in situ XRD Measurement (WPI-I2CNER, Kyushu Univ.; RIKEN; Graduate School of Science; The Univ. of Tokyo; JST-CREST) OHKUBO, Kazuya; YAMAUCHI, Miho; KATO, Kenichi; TAKATA, Masaki; TSUKUDA, Tatsuya
- 3A6-39** Preparation of Iron-Cobalt Nanoalloy Catalysts for Highly-Selective Lower Olefines Synthesis via Fischer-Tropsch Reaction (International Institute for Carbon-Neutral Energy Research (WPI-I2CNER), Kyushu University; JST-CREST; Faculty of Engineering, Oita University; AIST) KON-NO, Masaru; SADAKEYO, Masaaki; YAMAUCHI, Miho; SATO, Katsutoshi; NAGAOKA, Katsutoshi
- 3A6-40** Effect of Surfactants on Enzymatic Miniemulsion Polymerization (Graduate School of Engineering, Chiba University) KOBAYASHI, Ayaka; KOHRI, Michinari; TANIGUCHI, Tatsuo; KISHIKAWA, Keiki

## Room A7

### CO-LEARNING HOUSE I C203

### Colloid and Interface Chemistry

Friday, March 22, AM

Chair: KANIE, Kiyoshi (10 : 00~11 : 00)

- \* 9:50-10:00: interval for laptop PC connection.(1A7-07, 1A7-09, 1A7-11, 1A7-12)
- 1A7-07\*** Effect of movable wheel component on phase transition temperature of main chain type-liquid crystalline polyrotaxane (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) ABE, Yoko; OKAMURA, Hisashi; UCHIDA, Satoshi; TAKATA, Toshikazu
- 1A7-09\*** Synthesis and Properties of Liquid Crystalline Gel Containing Rotaxanes Cross-Link Points (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) JANG, keum hee; OKAMURA, Hisashi; UCHIDA, Satoshi; KOYAMA, Yasuhiro; TAKATA, Toshikazu
- 1A7-11** Gelation properties of calcium salts of L-lysine derivatives (Shinshu University) HAYAKAWA, Yuta; SUZUKI, Masahiro; HANABUSA, Kenji
- 1A7-12** Application of Low-Molecular-Weight Hydrogelators to Cell Culture Scaffold Material (Shinshu Univ.) SUZUKI, Masahiro; NASU, Masaki; TERAMOTO, Akira; ABE, Koji; HANABUSA, Kenji
- Chair: UCHIDA, Satoshi (11 : 10~12 : 10)
- \* 11:00-11:10: interval for laptop PC connection.(1A7-14, 1A7-15, 1A7-16, 1A7-17, 1A7-18, 1A7-19)
- 1A7-14** Synthesis and self-organization of terminal-modified liquid crystalline dendrimers (Tokyo Institute of Technology, Chemical Resources Laboratory) OKAMOTO, Yukiyasu; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 1A7-15** Synthesis of Pd Containing Gemini Cationic Amphiphilic Molecules and Its Pseudotaxane Formation with Cyclodextrin (Tokyo Inst. of Tech., Chem. Res. Lab.) ENDO, Hirotsuka; SUZAKI, Yuji; OSAKADA, Kohtaro
- 1A7-16** Photo-Responsive Vesicle Prepared by Lyotropic Liquid-Crystalline Phospholipids with an Azo-Moiety (IMRAM, Tohoku Univ.) SASADE, Natsuki; KANIE, Kiyoshi; MATSUBARA, Masaki; MURAMATSU, Atsushi
- 1A7-17** Liquid Crystalline Metallomacrocycles Composed of Salphen-Bridged Carbazole (Department of Chemistry, Graduate School of Science, Nagoya University, CREST/JST) KAWANO, Shin-ichiro; ISHIDA, Yukari; TANAKA, Kentaro
- 1A7-18** Syntheses and Self-Assembly of Bis( $\beta$ -Diketone) Ligands and their Macrocyclic Metal Complexes (Department of Chemistry, Graduate School of Science, Nagoya University; CREST/JST) MURAI, Takafumi; KAWANO, Shin-ichiro; TANAKA, Kentaro
- 1A7-19** Effects of shear flow on the structure of the inverse cubic phase in a nonionic surfactant system (Tokyo Metropolitan University) YAMANOI, Mutsumi; KAWABATA, Youhei; KATO, Tadashi

Friday, March 22, PM

Chair: TANAKA, Kentaro (13 : 20~14 : 20)

- \* 13:10-13:20: interval for laptop PC connection.(1A7-27, 1A7-30, 1A7-31, 1A7-32)
- 1A7-27 Young Scholar Lectures of CSJ** Construction of Self-Organized Nanotubes and Exploitation of Their Soft Nanospace Functions (NTRC-AIST) Kameta, Naohiro
- 1A7-30** Effectiveness of amino acid ionic liquids as self-organization media for amphiphilic molecules (Tokyo University of Agriculture and Technology) FUJIMURA, Kanae; ICHIKAWA, Takahiro; YOSHIO, Masafumi; KATO, Takashi; OHNO, Hiroyuki
- 1A7-31** Electric Field-Mediated Reversible Reflection Color Control of Cholesteric Liquid Crystals (The University of Tokyo) YAGUCHI, Yuya;

ITOH, Yoshimitsu; AIDA, Takuzo

- 1A7-32** Columnar Liquid Crystal with a Nonplanar and Flexible Cyclooctatetraene Core (Department of Chemistry, Graduate School of Science, Nagoya University; Research Center for Materials Science, Nagoya University; Institute of Transformative Bio-Molecules (WPI-ITbM), Nagoya University; PREST, Japan Science and Technology Agency;) YOSHIMURA, Masahiko; MOURI, Kazuhiro; SAITO, Shohei; YAMAGUCHI, Shigehiro

Chair: ITOH, Yoshimitsu (14 : 30~15 : 30)

- \* 14:20-14:30: interval for laptop PC connection.(1A7-34, 1A7-35, 1A7-36, 1A7-38)
- 1A7-34** Microviscosity and elastic modulus of gels made of low-molecular-weight gelator. (Yamaguchi Univ.) KASATANI, Kazuo; NAITO, Shuichi; MORITA, Yuki; OKAMOTO, Hiroaki
- 1A7-35** Development of super gelator based on sugar derivatives (Collaborative Research Division Art, Science and Technology Center for Cooperative Research, Kyushu University) ONO, Fumiyasu; SHINKAI, Seiji; WATANABE, Hisayuki
- 1A7-36\*** Preparation of Redox-responsive Supramolecular Hydrogels through Host-guest Interaction between Cyclodextrin and Ferrocene (Graduate School of Science, Osaka University) NAKAHATA, Masaki; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 1A7-38\*** Hierarchical Molecular Assembly of Discotic Liquid Crystalline Amphiphile Composed of a pi-Polarized Mesogen (RIKEN ASI; National Sun Yat-Sen Univ.; Osaka Univ.; Tokyo Institute of Technology) KAJITANI, Takashi; YEH, Ming-che; ONG, Chi Wi; ENOZAWA, Hideo; SAEKI, Akinori; SEKI, Shu; FUKUSHIMA, Takanori

Chair: MASUDA, Mitsutoshi (15 : 40~16 : 40)

- \* 15:30-15:40: interval for laptop PC connection.(1A7-41, 1A7-42, 1A7-43, 1A7-44, 1A7-45, 1A7-46)
- 1A7-41** Time-dependent sol transition of hydrogels containing cellulose nanofibers (Tokyo Institute of Technology) FUKUTA, Hiroki; SAWADA, Toshiki; SERIZAWA, Takeshi
- 1A7-42** Photo responsive artificial molecular muscles; contraction-expansion supramolecular materials formed by host-guest polymers (Graduate School of Science, Osaka University) HATANAKA, Shogo; TAKASHIMA, Yoshinori; NAKAHATA, Masaki; KAKUTA, Takahiro; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 1A7-43** Mixing Enhancement Effect of Low-Molecular-Weight Organogelators with Different Alkyl Chains (Kyushu University; Nissan Chemical Industries, Ltd.) OHSEDO, Yutaka; WATANABE, Hisayuki; OONO, Masaji; SARUHASHI, Kowichiro
- 1A7-44** Supramolecular hydrogel for biological applications(1):Development of two-photon responsive hydrogel (Graduate School of Engineering, Kyoto University) YOSHII, Tatsuyuki; IKEDA, Masato; HAMACHI, Itaru
- 1A7-45** Supramolecular hydrogel for biological applications (2):Logic gate function by using multi-component hydrogel (Graduate School of Engineering, Kyoto University) KUROTANI, Kazuya; TANIDA, Tatsuya; IKEDA, Masato; HAMACHI, Itaru
- 1A7-46** Supramolecular hydrogel for biological applications(3): Conferring high sensitivity based on signal amplification systems (Graduate School of Engineering, Kyoto University) ONOGI, Shoji; YOSHII, Tatsuyuki; HAMACHI, Itaru

Chair: IKEDA, Masato (16 : 50~17 : 50)

- \* 16:40-16:50: interval for laptop PC connection.(1A7-48, 1A7-49, 1A7-50, 1A7-51, 1A7-52)
- 1A7-48** Electrophoresis of protein using supramolecular hydrogel (Shizuoka Univ.) TAZAWA, Shohei; MUNENOBU, Kanako; JINNO, Yuki; YAMANAKA, Masamichi
- 1A7-49** Development of electrophoresis for native proteins using supramolecular hydrogel (Shizuoka Univ.) MUNENOBU, Kanako; OYOSHI, Takanori; YAMANAKA, Masamichi
- 1A7-50** Construction of novel supramolecular assembling system utilizing liquid-liquid interface generated in microfluidic device. (Graduate school of Life and Environmental Science, Kyoto Pref. Univ.) NISHINO, Yuri; TAKAYAMA, Momoko; NUMATA, Munenori
- 1A7-51** A novel approach toward size controllable one-dimensional structures (Graduate School of Life and Environmental Science, Kyoto Pref. Univ.) HIROSE, Naoya; NUMATA, Munenori
- 1A7-52\*** Thiophene Supramolecular nanosheets (Max Planck Institute for Polymer Research) ZHENG, Yijun; IKEDA, Taichi; BUTT, Hans-juergen

Chair: NUMATA, Munenori (18 : 00~18 : 30)

- \* 17:50-18:00: interval for laptop PC connection.(1A7-55, 1A7-56, 1A7-57)
- 1A7-55** Cisplatin encapsulated Organic Nanotubes via ligand exchange and their drug release function. (NTRC-AIST) DING, Wuxiao; WADA, Momoyo; MINAMIKAWA, Hiroyuki; KAMETA, Naohiro; MASUDA, Mitsutoshi; SHIMIZU, Toshimi
- 1A7-56** Construction of Protein-modified Organic Nanotubes (NTRC-AIST) MANAKA, Yuichi; KAMETA, Naohiro; AOYAGI, Masaru; MASUDA, Mitsutoshi; SHIMIZU, Toshimi
- 1A7-57** Formation of Organized Structures Based on [2 + 2]-Type Ion Pairs of Protonated  $\pi$ -Conjugated Molecules (College of Pharmaceutical Sciences,

Ritsumeikan University) MAEDA, Hiromitsu; CHIGUSA, Kengo

## Saturday, March 23, AM

Chair: TAKEDA, Sadamu (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(2A7-01, 2A7-02, 2A7-03, 2A7-04, 2A7-05, 2A7-06)

**2A7-01** Synthesis of Protein Microtube and Its *E. coli* Trapping Ability (Faculty of Sci. and Eng., Chuo Univ.) YUGE, Shuta; AKIYAMA, Motohisa; GOTO, Shun; KOMATSU, Teruyuki**2A7-02** Self-assembly of a tris-urea with triarylamine scaffold (Shizuoka Univ.) SHIMAZU, Hideo; YAMANAKA, Masamichi**2A7-03** Gelation ability of an amphiphilic tris-urea molecule with carboxyl groups as hydrophilic substituents (Shizuoka Univ.) YANAI, Kazushige; YOSHIDA, Masaru; YAMANAKA, Masamichi**2A7-04** Nanostructured Peptide Amphiphile Assemblies for Potential three-dimensional Cell Culture (Kyushu Univ.) WAKABAYASHI, Rie; KOGA, Mika; KAMIYA, Noriho; GOTO, Masahiro**2A7-05** Construction of Sensor Array on the Surface of Boronate Gel Film (Tokyo Metropolitan University) NISHIYABU, Ryuhei; KAMIYA, Yuka; KOBAYASHI, Hiroyasu; KUBO, Yuji**2A7-06** A Controlled Aggregation of Naphthalene Diimide Derivatives using Lewis Acid-Base Adducts as Bulky Substituents and its Supramolecular Composite Materials (Kyushu University) ONO, Toshikazu; IKEGAMI, Atsushi; HISAEDA, Yoshio

Chair: YAMANAKA, Masamichi (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(2A7-08, 2A7-10, 2A7-12)

**2A7-08\*** Photoresponsive Molecular Glue: Development of Adhesive Patches Giving Photomechanical Perturbation to Biomembranes (School of Engineering, The University of Tokyo) OKURO, Kou; SUZUKI, Yushi; TAKEUCHI, Tadashi; AIDA, Takuzo**2A7-10\*** Macroscopic coiling-recoiling motion of soft oleate assemblies activated by photoisomerization reaction of azobenzene derivatives (Hokkaido Univ.) KAGEYAMA, Yoshiyuki; KUROKOME, Yuta; IKEGAMI, Tomonori; TANIGAKE, Naruho; TAKEDA, Sadamu**2A7-12\*** Charge-Based Assemblies of Semifluoroalkyl-Substituted  $\pi$ -Conjugated Acyclic Anion Receptors (College of Pharmaceutical Sciences, Ritsumeikan University) TERASHIMA, Yoshitaka; MAEDA, Hiromitsu

Chair: KUBO, Yuji (11 : 20~12 : 00)

\* 11:10-11:20: interval for laptop PC connection.(2A7-15, 2A7-17)

**2A7-15\*** Association Behavior and Physical Properties of Charge-Transfer Complexes Self-Assembled from Lipophilic Dihydrophenazine Derivatives and Various Acceptor Molecules (Kyushu Univ.; CMS; JST CREST) IGUCHI, Hiroaki; KIMIZUKA, Nobuo**2A7-17\*** Preparation of chiral silicas using chiral supramolecular complexes of polyamines and sugar acids (Univ. of Kanagawa) MATSUKIZONO, Hiroyuki; JIN, Ren-hua

## Saturday, March 23, PM

Chair: HIGASHI, Nobuyuki (13 : 10~14 : 10)

\* 13:00-13:10: interval for laptop PC connection.(2A7-26, 2A7-29, 2A7-30)

**2A7-26** Young Scholar Lectures of CSJ Emergence of Functionalities by Self-Assembly of Cyclic Polymers (Tokyo Tech) Yamamoto, Takuya**2A7-29** In situ characterization of the peptide structure during the solid-phase peptide synthesis studied by surface enhanced infrared spectroscopy (National Institute for Materials Science) NOGUCHI, Hidenori; UOSAKI, Kohei**2A7-30\*** Nanoconstruction of 2-D Covalent Fe-Porphyrin Mesh Structures Based on a "On-site" Equilibrium Polycondensation at Solid-liquid Interface (Grad. Sch. Sci. Tech., Kumamoto Univ.) TANOUE, Ryota; IKEBE, Kiryu; HIGUCHI, Rintaro; UEMURA, Shinobu; KUNITAKE, Masashi

Chair: NOGUCHI, Hidenori (14 : 20~14 : 40)

\* 14:10-14:20: interval for laptop PC connection.(2A7-33, 2A7-34)

**2A7-33** Fabrication of highly oriented columnar network nanosheets and introducing guest molecules into pores (Osaka Prefecture University) TSUCHIYAMA, Kohei; KOBAYASHI, Takashi; NAITO, Hiroyoshi; MAKIURA, Rie**2A7-34** Picosecond time-resolved fluorescence anisotropy measurement of fluorescent phospholipid with pyrene chromophore- viscosity inside lipid bilayer of DMPC liposome (Gakushuin University) NOJIMA, Yuki; KANO, Daisuke; NAKAMURA, Hiroyuki; IWATA, Koichi

Chair: NAITO, Hiroyoshi (16 : 50~17 : 30)

\* 16:40-16:50: interval for laptop PC connection.(2A7-48, 2A7-49, 2A7-50, 2A7-51)

**2A7-48** Optimization of peptide self-assembled monolayers for cell adhesion (Doshisha Univ.) OGURI, Maho; TERADA, Kazuteeru; KOGA, Tomoyuki; HIGASHI, Nobuyuki**2A7-49** Self-assembly of peptides on substrates induced by external environment (Grad. Sch. Sci. Tech., Kumamoto Univ., JFCR) SUKIZAKI, Akihiko; UEMURA, Shinobu; MATSUMURA, Sachiko; KUNITAKE, Masashi**2A7-50** Construction of 2D halogen bonded supramolecular structures consisted of multifunctional molecules (Fac. Eng., Kumamoto Univ. Grad. Sch. Sci. Tech., Kumamoto Univ.) INAO, Yukari; UEMURA, Shinobu; KUNITAKE, Masashi**2A7-51** pH Dependency of Self-Assemble Behavior of Heptazine Based Molecules (Kumamoto Univ) SAKATA, Kenki; NAKAMURA, Yusuke; UEMURA, Shinobu; KUNITAKE, Masashi

## Sunday, March 24, AM

Chair: TOHNAI, Norimitsu (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(3A7-01, 3A7-02, 3A7-03, 3A7-04, 3A7-05, 3A7-06)

**3A7-01** Temperature Effect on the Adsorption of Decane-1,10-diol at Air/Water and Perfluorohexane/Water Interfaces (Kyushu Univ.) OBAYASHI, Nobuaki; TOTTORI, Takuya; HIROKI, Tetsuro; MATSUBARA, Hiroki; ARATONO, Makoto; TAKIUE, Takanori**3A7-02** Molecular orientation and miscibility of fluoroalkanol and fluoroalkane- $\alpha, \omega$ -diol in the adsorbed film at the hexane/water interface (Kyushu Univ.) FUKUHARA, Ryushi; HIROKI, Tetsuro; MATSUBARA, Hiroki; ARATONO, Makoto; TAKIUE, Takanori**3A7-03** Water-in-oil droplets coated with a phospholipids monolayer response to monosaccharide (Grad. Sch. Sci., Hiroshima Univ.) FURUTA, Miyuki; YANAGISAWA, Miho; DENDA, Mitsui; NAKATA, Satoshi**3A7-04** Extraction of Phenols Dissolved in Water by Organic Solvents: Interaction between Organic Solvent and Phenol (Shinshu Univ.) HANAZATO, Akitsu; SAKAI, Toshio**3A7-05** IV-SFG Studies on the Surface Structures of Ionic Liquid ([C<sub>n</sub>mim][OTf]) Aqueous Solutions (Nagoya Univ. Chemistry) SAKAI, Yasunari; BEHERA, Kamalakanta; IWAHASHI, Takashi; ISHIYAMA, Tatsuya; MORITA, Akihiko; KIM, Doseok; OUCHI, Yukio**3A7-06** Interaction of esters with the platform on which His and Ser are presented. (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) SHIRATORI, Ai; KIHARA, Nobuhiro

Chair: TAKIUE, Takanori (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(3A7-08, 3A7-09, 3A7-10, 3A7-12)

**3A7-08** Control of self-assembling behavior of functional dye molecules utilizing uniform diffusion process in micrometer-sized solution. (Graduate School of Life and Environmental Science, Kyoto Pref. Univ.) SAKAI, Ryouichiro; NUMATA, Munenori**3A7-09** Creation of novel supramolecular structures in programmable micro-space (Graduate School of Life and Environmental Science, Kyoto Pref. Univ.) KOZAWA, Tomohiro; NUMATA, Munenori; TAKIGAMI, Yusuke**3A7-10\*** Ultrasound Induced Structural Transformation of Highly Crystalline Supramolecular Nanofibers with Electrical Property Change (Graduate School of Engineering, Osaka University) SHIGEMITSU, Hajime; HISAKI, Ichiro; YASUMIYA, Daisuke; OSAKA, Keisuke; TOHNAI, Norimitsu; MIYATA, Mikiji**3A7-12\*** Formation of Organic Nanotubes by Self-assembly of Thiophene-Bonded Glycolipids and Their Oxidative Polymerization (AIST) ISHIKAWA, Kazuyuki; KAMETA, Naohiro; AOYAGI, Masaru; MASUDA, Mitsutoshi; ASAKAWA, Masumi; SHIMIZU, Toshimi

Chair: SAKAI, Toshio (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(3A7-15, 3A7-16, 3A7-17, 3A7-18, 3A7-20)

**3A7-15** Preparation of Emissive Micro-Sized Particle Based on Surface Functionalization of Boronate Self-Assemblies (Tokyo Metropolitan University) NISHIYABU, Ryuhei; SUGINO, Yasuyuki; FUJIWARA, Seika; KUBO, Yuji**3A7-16** Reversible dissociation of TTF-Au hybrid nanowires in solvents (Grad. Sch. of Sci. and Tech., Kyoto Inst. of Tech.) TSUJI, Yukiko; NAKA, Kensuke**3A7-17** Photo-responsive Gold Nanoparticle Vesicles Enabling Rapid Drug Release (RIES, Hokkaido Univ.) IYO, Naoki; NIKURA, Kenichi; MATSUO, Yasutaka; MITOMO, Hideyuki; SHIMAMOTO, Naonobu; IJIRO, Kuniharu**3A7-18\*** Development of micelles exhibiting thermo- and mechanochromic luminescence in water (The Univ. of Tokyo) SAGARA, Yoshimitsu; NAGANO, Tetsuo**3A7-20** Surface design of gold nanoparticle by the phase separation of thiol ligands (Faculty of Science, Hokkaido Univ.; RIES, Hokkaido Univ.) IIDA, Ryo; NIKURA, Kenichi; SEKIGUCHI, Shota; MITOMO, Hideyuki; SHIMAMOTO, Naonobu; IJIRO, Kuniharu

## Sunday, March 24, PM

Chair: IJIRO, Kuniharu (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(3A7-28, 3A7-30, 3A7-31, 3A7-32, 3A7-33)

**3A7-28\*** Functionalization of helical polysaccharides by side-chain modification (Dept. Nanosci., Sojo Univ.) TAMARU, Shun-ichi; SHINKAI, Seiji**3A7-30** Kinetic Analysis of the Formation of Pseudorotaxanes of  $\alpha$ -



Cyclodextrin and Two-Station Axis Molecules Composed of Substituted Pyridinium and Decamethylene Moieties (Graduate School of Science, Osaka University) KUSE, Akihiro; HASHIDZUME, Akihiro; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; HARADA, Akira

- 3A7-31** Thermal dissociation behavior of  $\alpha$ -cyclodextrin-based size-complementary rotaxane (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) AKAE, Yosuke; KOYAMA, Yasuhito; OKAMURA, Hisashi; TAKATA, Toshikazu
- 3A7-32** Synthesis of cyclodextrin-containing polyrotaxanes using block copolymers as an axle component (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) IGUCHI, Hiroyuki; KOYAMA, Yasuhito; UCHIDA, Satoshi; TAKATA, Toshikazu
- 3A7-33** Synthesis and Properties of Polyrotaxane Network Consisting of  $\alpha$ -CD-Based Rotaxanes at the Cross-Linking Points (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) IJIMA, Keisuke; ARAI, Takayuki; JANG, Keum hee; KOYAMA, Yasuhito; UCHIDA, Satoshi; TAKATA, Toshikazu

Chair: TAKASHIMA, Yoshinori (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(3A7-35, 3A7-36, 3A7-37, 3A7-38, 3A7-39, 3A7-40)

- 3A7-35** Self-assembly of Aqueous Polyoxometalates (1) Control on the Nanostructures by Varying Counter Cations (Fac. Eng., Kyushu Univ.) KICHISE, Daisuke; ISHIBA, Keita; IGUCHI, Hiroaki; NOGUCHI, Takao; MORIKAWA, Masa-aki; KIMIZUKA, Nobuo
- 3A7-36** Self-assembly of Aqueous Polyoxometalates (2) Photoregulation of Nanostructures and Their Functions (Kyushu University; CMS; JST-CREST) ISHIBA, Keita; KICHISE, Daisuke; IGUCHI, Hiroaki; NOGUCHI, Takao; MORIKAWA, Masa-aki; KIMIZUKA, Nobuo
- 3A7-37** Supramolecular structures emerged from lipid and cyanine dye at the solid-liquid interface (Kyushu University) TSUNOFURI, Shohei; MORIKAWA, Masa-aki; KIMIZUKA, Nobuo
- 3A7-38** Formation of microsphere using  $\gamma$ -cyclodextrin dimers (Saitama University, Graduate School of Science and Engineering) YU, Yue; ISHIMARU, Yoshihiro
- 3A7-39** Synthesis of new cyclodextrin dimer with functional groups and their polymer inclusion (Saitama University, Graduate School of Science and Engineering) NAGANO, Yoshihiko; ISHIMARU, Yoshihiro
- 3A7-40** Synthesis and Stimulus Responsive Properties of Amphiphilic Polymer Bearing Porphyrin Moieties as Side Chains (Fac. of Systems Engineering, Wakayama Univ.) NAKA, Takuya; OSUGA, Hideji; KIMURA, Keiichi; SAKAMOTO, Hidefumi

Chair: KIMIZUKA, Nobuo (15 : 50~16 : 50)

\* 15:40-15:50: interval for laptop PC connection.(3A7-42, 3A7-44, 3A7-45, 3A7-46, 3A7-47)

- 3A7-42\*** Polymer wrapping of carbon nanotube via polymerization in nanotube-encapsulated micelle structure (Kyushu University) FUJIGAYA, Tsuyohiko; TSUTSUMI, Yusuke; NAKASHIMA, Naotoshi
- 3A7-44** Size Control of the Polymer Micelles in a Micro Flow Channel (Grad. Sch. Mat. Sci., NAIST; Shimadzu corporation) HAYAMA, Kohei; KAWABE, Takashi; OZEKI, Eiichi
- 3A7-45** Synthesis and properties of surfactant with regulated ethylene oxide chain length (Kansai Univ., OMTRI) INAMOTO, Tadashi; SATO, Hirohumi; SHIZUMA, Motohiro; ONO, Daisuke; KAWASAKI, Hideya; ARAKAWA, Ryuichi
- 3A7-46** Solution properties and gelation behavior of amidoamine oxide surfactants (Osaka Municipal Technical Research Institute) KAKEHASHI, Rie; TOKAI, Naoji; YAMAMURA, Shingo
- 3A7-47** Synthesis and Properties of Cationic Surfactants with Adamantyl Group (Nara Women's Univ.; Idemitsu Kosan Co., Ltd.) OKADA, Mari; YOSHIMURA, Tomokazu; ITO, Katsuki

Chair: KAKEHASHI, Rie (17 : 00~18 : 00)

\* 16:50-17:00: interval for laptop PC connection.(3A7-49, 3A7-50, 3A7-51, 3A7-52, 3A7-53, 3A7-54)

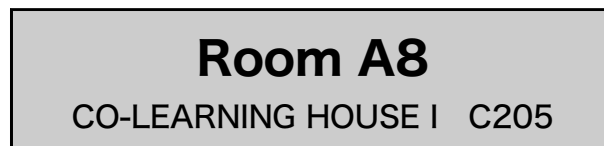
- 3A7-49** Property of dialkylated surfactant with amino acid scaffold (Fukuoka Institute of Technology) HIGASHI, Satoshi; SUEYOSHI, Masakazu; KUWAHARA, Junko; MITA, Hajime; WATANABE, Keiko; KATO, Tamaki
- 3A7-50** Amino acid-derived novel vinyl polymers : Control of thermo-responsive behavior based on their amino acid residues (Doshisha Univ.) SONODA, Ryo; KOGA, Tomoyuki; HIGASHI, Nobuyuki
- 3A7-51** Design of ionic liquid-derived polyelectrolytes with controllable their hydrated states by small temperature change. (Tokyo University of Agriculture and Technology) DEGUCHI, Yuki; KOHNO, Yuki; OHNO, Hiroyuki
- 3A7-52** Preparation and Properties of O/W type Emulsion Using Lactic-Acid-Bacteria Fermented Rice (Nara Women's Univ.; Technoble Co., Ltd.) KUBOTA, Mizuki; YOSHIMURA, Tomokazu; HADA, Yohsuke; SAWAKI, Shigetoyo
- 3A7-53** Effect of ultrasonic irradiation on the thermal-responsive emulsions of a long-chain amidoamine derivative (Tokyo University of Science) YONEYAMA, Rina; MORITA, Clara; IMURA, Yoshiro; ENDO, Hiroshi; KAWAI, Takeshi

- 3A7-54** Colloidal Stability of Surfactant-free Water-in-oil Emulsions: Effect of Oil Type, Ultrasound Power, Frequency and Tandem Irradiation (Shinshu Univ.) SEO, Keita; SAKAI, Toshio

Chair: KOGA, Tomoyuki (18 : 10~18 : 40)

\* 18:00-18:10: interval for laptop PC connection.(3A7-56, 3A7-57, 3A7-58)

- 3A7-56** Oil-in-water Emulsions as Thermal-energy Storage Fluids (Shinshu Univ.) SAKAI, Toshio; IJIMA, Kosuke
- 3A7-57** Preparation, Physical Properties and Antibacterial Activity of Palmitoleic Acid Calcium Salt (Yamagata Univ.) YAMAMOTO, Yoshiaki; KAWAMURA, Yuuki; MORIKAWA, Toshiya; NONOMURA, Yoshimune
- 3A7-58** Fabrication of Cylindrical Macropore Array in SnO<sub>2</sub> via Sol-Gel Process (Okayama Univ.) OZAWA, Yuushi; TAJIMA, Tomoyuki; TAKAGUCHI, Yutaka



## Colloid and Interface Chemistry

Friday, March 22, AM

Chair: UMAKOSHI, Hiroshi (10 : 00~11 : 00)

\* 9:50-10:00: interval for laptop PC connection.(1A8-07, 1A8-08, 1A8-09, 1A8-11)

- 1A8-07** Effects of phytanyl chains on the gel-like bilayers in a sugar surfactant solutions below the Krafft temperature (Tokyo Metropolitan University) KAWABATA, Youhei; NAGAI, Sho; KATO, Tadashi
- 1A8-08** Lamellar/vesicle transition induced by dilution of cationic/nonionic surfactant mixture solution (Tokyo Metropolitan University) HAYASHI, Kento; KAWABATA, Youhei; KANAOKA, Tomoki; ISHIKAWA, Akira
- 1A8-09\*** Formation, structure and properties of planar lipid membranes on graphene oxide (EIRIS, Toyohashi Tech.) TERO, Ryugo; bin Mat-Nor, Muazam-shar; OKAMOTO, Yoshiaki; IWASA, Seiji; SANDHU, Adarsh
- 1A8-11\*** Morphology control of liposomes by coordination polymers (Kyoto Univ.) OHTANI, Ryo; INUKAI, Munehiro; OHBA, Masaaki; KITAGAWA, Susumu

Chair: KAWABATA, Youhei (11 : 10~12 : 10)

\* 11:00-11:10: interval for laptop PC connection.(1A8-14, 1A8-16, 1A8-18)

- 1A8-14\*** Evaluation of Nano-domain on Liposome Membrane and Its Application to ssRNA Recognition ~ Membranome (1) ~ (Osaka Univ.) SUGA, Keishi; UMAKOSHI, Hiroshi
- 1A8-16\*** L-Pro-Catalyzed Aldol Reaction on Liposome Membrane ~ Membranome (2) ~ (Osaka Univ.) ISHIGAMI, Takaaki; FUJIWARA, Shimpei; UMAKOSHI, Hiroshi
- 1A8-18\*** Lipid Molecule Dynamics in Cell Sized Vesicle Studied by NMR Nuclear Overhauser Effect (Faculty of Pharmaceutical Sciences, Himeji Dokkyo University) TAKECHI, Yuki; SAITO, Hiroyuki; OKAMURA, Emiko

Friday, March 22, PM

Chair: OKAMURA, Emiko (13 : 20~14 : 20)

\* 13:10-13:20: interval for laptop PC connection.(1A8-27, 1A8-29, 1A8-31, 1A8-32)

- 1A8-27\*** Studies on the Role of Trehalose for the Preservation of Bilayer Structure of DMPC in Air (Hokkaido university; NIMS; MANA;) ZHANG, Ya; NOGUCHI, Hidenori; UOSAKI, Kohei
- 1A8-29\*** Brownian ratchet separation in the lipid bilayer by control of narrow space (Hokkaido Univ.) MOTEGI, Toshinori; NABIKA, Hideki; JIANWEI, Zhao; MURAKOSHI, Kei
- 1A8-31** Length-effect of amplified DNA inside vesicle for self-reproducing dynamics (Grad. Sch. Arts and Sci., The Univ. of Tokyo) KAN, Yumi; KURIHARA, Kensuke; TOYOTA, Tarō; IMAI, Masayuki; SUGAWARA, Tadashi
- 1A8-32** Stabilization of powdered oil-in-water emulsions by colloidal particles (Graduate School of Natural Science, Konan Univ.) MORIYAMA, Hiroshi; YAMAMOTO, Masahiro; Bernard P., Binks; MURAKAMI, Ryo

Chair: MIZUHATA, Minoru (14 : 30~15 : 30)

\* 14:20-14:30: interval for laptop PC connection.(1A8-34, 1A8-36, 1A8-37, 1A8-38, 1A8-39)

- 1A8-34\*** Stabilization of Pickering emulsions using microchannel emulsification (Konan University; Department of Chemistry of Functional Molecules) MURAKAMI, Ryo; IWAHASHI, Toru; FUJIMOTO, Yuki; YAMAMOTO, Masahiro
- 1A8-36** Material Innovation by using Langmuir-Blodgett Films of Organo-modified Aluminosilicate with High Heat Resistance and High Ordered Array (Department of Functional Materials Science, Saitama University) HASHIMOTO, Masamichi; SOTOME, Yoichi; ARAI, Syuntaro; KUBOTA,

Munehiro; KUROSAKA, Keiichi; FUJIMORI, Atsuhiko

**1A8-37** Extreme Physical Property of the Enzyme Layered Organization by Using High-temperature Characteristic of Monolayer of Organo-aluminosilicate with High Coverage (Grad. Sch. of Sci. and Eng., Saitama Univ.) ARAI, Shuntaro; HASHIMOTO, Masamichi; SOTOME, Yoichi; KUBOTA, Munehiro; KUROSAKA, Keiichi; FUJIMORI, Atsuhiko

**1A8-38** Elucidation of Correlation of Molecular Arrangement with the Fluorescence Emission Behavior in "Polymer Nanosphere Multilayered Organization" (Department of Functional Materials Science, Faculty of Engineering, Saitama University) KIKKAWA, Takahiro; KANEKO, Yohei; FUJIMORI, Atsuhiko

**1A8-39** Two-dimensional Integration of Single Particle Layer of Polymer Nanosphere to Aim the Contribution to the Generation of Newly Colloidal Nano-crystals (Graduate School of Science and Engineering, Saitama University) KANEKO, Yohei; KIKKAWA, Takahiro; FUJIMORI, Atsuhiko

Chair: MURAKAMI, Ryo (15 : 40~16 : 40)

\* 15:30-15:40: interval for laptop PC connection.(1A8-41, 1A8-42, 1A8-43, 1A8-44, 1A8-45, 1A8-46)

**1A8-41** Observation of effect of salt on adsorption dynamics of hexadecyltrimethylammonium bromide by using sum frequency generation spectroscopy (Kao Corporation, National Institute for Materials Science) ASAMI, Nobuyuki; TANAKA, Atsushi; NOGUCHI, Hidenori; UOSAKI, Kohei

**1A8-42** Molecular Re-Orientation of Stearic Acid Weakly Adsorbed on a Hydrophobic Gold Surface (ICR, Kyoto Univ.) HASEGAWA, Takeshi; SHIMOAKA, Takafumi; ITOH, Yuki

**1A8-43** PEDOT superthin film grown-up from the chemically-adsorbed monolayer (Kagawa Univ.) OHTAKE, Tadashi; KUBOTA, Taiki; OGAWA, Kazufumi

**1A8-44** Effect of Ions in Subphase on Formation of Lead-based Perovskite Thin film (Saga Univ.) TSUKAMOTO, Eri; NARITA, Takayuki; ERA, Masanao; OISHI, Yushi

**1A8-45** Control of Fluorescence Emission Behavior of Aggregated DNA Molecules by Using Template Formation of Monolayer of Phase Separated-comb Copolymer (Graduate School of Science and Engineering, Saitama University) TAGUCHI, Makoto; FUJIMORI, Atsuhiko

**1A8-46** Construction of a Rare Metal-free Transparent Conductive Film by Using Two-Dimensional Hybrid Organic / Inorganic Hierarchical Structure of ZnO Nano-disk (Department of Functional Materials Science, Faculty of Engineering, Saitama University) HONDA, Nanami; UCHIDA, Saki; HASHIMOTO, Kazuaki; SHIBATA, Hirobumi; FUJIMORI, Atsuhiko

Chair: FUJIMORI, Atsuhiko (16 : 50~17 : 50)

\* 16:40-16:50: interval for laptop PC connection.(1A8-48, 1A8-49, 1A8-50, 1A8-52)

**1A8-48** Fabrication and photoelectrochemical application of C60 assembled films using fullerene-amine addition reaction (Department of Materials Science, The University of Shiga Prefecture) BANYA, Shoto; MATSUMOTO, Taisuke; OKU, Takeo; AKIYAMA, Tsuyoshi

**1A8-49** Novel fabrication method of free-standing Layer-by-Layer films without sacrificial polymer film. (Tokyo Univ. of Science) YAMASHITA, Tatsuya; ENDO, Hiroshi; KAWAI, Takeshi

**1A8-50\*** Formation of Pt Cluster on Polycyclic Aromatic Hydrocarbon Adlayers (Kumamoto Univ.) YOSHIMOTO, Soichiro; OGATA, Hiroto; NISHIYAMA, Katsuhiko

**1A8-52\*\*** Bioinspired SAM Operable by Electrical Potential for Guest Capture and Release (The University of Tokyo) CHEN, Shuo; ITOH, Yoshimitsu; MASUDA, Takuya; NOGUCHI, Hidenori; UOSAKI, Kohei; AIDA, Takuzo

Chair: YAMAMOTO, Masahiro (18 : 00~18 : 30)

\* 17:50-18:00: interval for laptop PC connection.(1A8-55, 1A8-57)

**1A8-55\*** Light-Induced Nanoscale Morphology Changes of Azobenzene Self-Assembled Monolayers (Tokyo Institute of Technology) ISHIKAWA, Daisuke; HAN, Mina; HARA, Masahiko

**1A8-57** Electrochemical Behavior of the Self-Assembled Monolayer of a Triad Consisting of Tripod-shaped Trithiol, Deazapurine, and Ferrocene on Au(111) in the Presence of Metal Ion (Mie Univ.) HANAI, Narimi; OKAZAKI, Takao; KITAGAWA, Toshikazu

## Saturday, March 23, AM

Chair: SAKAMOTO, Hiroto (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(2A8-01, 2A8-02, 2A8-04, 2A8-05, 2A8-06)

**2A8-01** Adsorbability of functional nanoparticles on the solid surface improved with cationic vesicles and a couple of intrinsic properties for adsorbed nanoparticles layers (Kanagawa Univ. Project of Three-Phase Emulsification Technology) MATSUSHIRO, Tadashi; IMAI, Yoko; TAKAHASHI, Masashi; KOBAYASHI, Koichi; KOSHINUMA, Masakatsu; TAJIMA, Kazuo

**2A8-02\*** Selective separation of refractory and platinum-group metals from a simulated solution of radioactive waste by titanium oxide particles (JAEA) SAEKI, Morihisa; TOSHIMITSU, Masaaki; OHBA, Hironori

**2A8-04** Synthesis and gas adsorption properties of 4,4'-bipyridine-bridged

copper complexes with two kinds of analogous inorganic anions (Research Institute for Electronic Science, Hokkaido Univ.) ISHIBASHI, Hidenori; NORO, Shin-ichiro; KUBO, Kazuya; NAKAMURA, Takayoshi

**2A8-05** Effect of Pillar Ligand Flexibility on Adsorption Characteristics of MOF Materials (Toyoashi Univ. of Technology) MATSUMOTO, Akihiko; NAKAMORI, Shori; MATSUYAMA, Yushi; IKEDA, Takuji

**2A8-06** Thermal properties of benzene confined in Zn-based metal-organic framework with 2,5-dimethylbenzenedicarboxylate. (Graduate School of Science, Osaka Univ.; The Museum of Osaka Univ.) KONO, Saori; MIYAKUBO, Keisuke; EGUCHI, Taro; UEDA, Takahiro

Chair: OHBA, Tomonori (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(2A8-08, 2A8-10, 2A8-12)

**2A8-08\*** Molecular Simulation and Free Energy Analysis for Adsorption-Induced Structural Transition of ZIF-8 (Kyoto Univ.) TANAKA, Hideki; OHSAKI, Shuji; YAMAMOTO, Daigo; WATANABE, Satoshi; MIYAHARA, Minoru

**2A8-10\*** Isotope recognition by flexible coordination polymers (Kyoto Univ.) FUKUSHIMA, Tomohiro; HORIKE, Satoshi; KITAGAWA, Susumu

**2A8-12\*** Gas/vapor adsorption on a carbon nanoring:[12]cycloparaphenylene (Shinshu Univ., ENC's Project) SAKAMOTO, Hiroto; FUJIMORI, Toshihiko; KANEKO, Katsumi

Chair: MATSUMOTO, Akihiko (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(2A8-15, 2A8-16, 2A8-17, 2A8-18, 2A8-19, 2A8-20)

**2A8-15** Formation process of hydration structure around a zinc ion restricted in pores of single-wall carbon nanotube (Okayama Univ.) NISHI, Masayasu; OHKUBO, Takahiro; ITADANI, Atsushi; KURODA, Yasushige

**2A8-16** Hydration Structure of Calcium Ion Formed in Carbon Micropore (Okayama Univ.) KUSUDO, Tomoko; OHKUBO, Takahiro; ITADANI, Atsushi; KURODA, Yasushige

**2A8-17** Monolayer Solids of Kr on Graphitized Carbon Black Surfaces and in Graphitic Hexagonal Pores (Okayama Univ. of Science) MORISHIGE, Kunimitsu; MIKAWA, Kouji

**2A8-18** Stepwise CO<sub>2</sub> occlusion by K<sub>2</sub>CO<sub>3</sub> under moisture (Chiba Univ.) CHIOYAMA, Hideyuki; OHBA, Tomonori; KANO, Hirofumi

**2A8-19** Edge Effect of Nanographenes in Adsorption (Chiba Univ.) OHBA, Tomonori; KANO, Hirofumi

**2A8-20** Hydrolysis of nucleotides by crystalline cellulose nanofibers (Tokyo Institute of Technology) YATAKA, Yusuke; SAWADA, Toshiki; SERIZAWA, Takeshi

## Saturday, March 23, PM

Chair: NONOMURA, Yoshimune (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(2A8-28, 2A8-29, 2A8-30, 2A8-32)

**2A8-28** Effect of Washing on Surface Properties of Silk Cloth (Bunka Gakuen Univ., Textile Lab.) YUMOTO, Lei; ATTAWIRIYASAKUL, Patra; YONEYAMA, Yuji

**2A8-29** Synthesis of Micro Polymer Particles by Ultrasonic Nebulized Mists (Osaka Prefecture University) SHIMOGAKI, Tomohiko; SATO, Masaaki

**2A8-30\*\*** DNA-mediated photoconversion of AgCl to functional nanoparticles and their applications (Grad. Sch. Chem. Sci. Eng. Hokkaido Univ.) WANG, Guoqing; MITOMO, Hideyuki; SHIMAMOTO, Naonubo; MATSUO, Yasutaka; NIKURA, Kenichi; IJIRO, Kuniharu

**2A8-32\*\*** High selectivity of hydrotalcite supported-platinum/gold alloy nanoparticle catalysts for aerobic oxidation of polyols under base-free and atmospheric conditions (Sch. Mat. Sci., JAIST) TONGSAKUL, Duangta; NISHIMURA, Shun; EBITANI, Kohki

Chair: NIKURA, Kenichi (17 : 00~17 : 30)

\* 16:50-17:00: interval for laptop PC connection.(2A8-49, 2A8-50, 2A8-51)

**2A8-49** Effect of the charge and roughness of surfaces on normal and friction forces measured in aqueous solutions (Fac. Textile Sci. Technol., Shinshu Univ.) MCNAMEE, Cathy; HIGASHITANI, Ko

**2A8-50** Tribological analysis of water perception process by touch (Yamagata Univ.) SAITO, Rina; SUZUKI, Makoto; MAYAMA, Hiroyuki; MAENO, Takashi; NONOMURA, Yoshimune

**2A8-51** Tribology of Porous Soft Materials (Yamagata Univ.) TAKAHASHI, Akira; SUZUKI, Makoto; IMAI, Yumi; NONOMURA, Yoshimune

## Sunday, March 24, AM

Chair: TAKAKUSAGI, Satoru (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(3A8-01, 3A8-02, 3A8-03, 3A8-04, 3A8-05)

**3A8-01** Evaluation of pH at Alumina-Water Interface using Fluorescence SFA (Tohoku University; Institute of Multidisciplinary Research for Advanced Materials) KAWASHIMA, Masataka; SAITO, Yoko; INOMATA, Kyona; KASUYA, Motohiro; KURIHARA, Kazuo

**3A8-02** Molecular-Level Picture of the Confinement-Induced Dynamical

Slowdown of Liquids: a Molecular Dynamics Study (School of Eng., Tohoku Univ.; WPI-AIMR, Tohoku Univ.; IMRAM, Tohoku Univ.; CREST-JST) MATSUBARA, Hiroki; PICHIERRI, Fabio; KURIHARA, Kazue

**3A8-03** Anion Adsorption on Gold Electrode Surfaces Studied by Electrochemical Surface Forces Measurement (IMRAM, Tohoku Univ.) KASUYA, Motohiro; MASUDA, Takuya; SOGAWA, Tsukasa; UOSAKI, Kohei; KURIHARA, Kazue

**3A8-04** Tribological Analysis of Nano-Confined Liquids Based on Resonance Shear Measurement (IMRAM, WPI-AIMR, Tohoku University, CREST-JST) MIZUKAMI, Masashi; KURIHARA, Kazue

**3A8-05\*** Influence of Confinement on Electric Field Induced Orientation of Nematic Liquid Crystal (IMRAM, Tohoku University/WPI-AIMR; Tohoku University/JST-CREST/JASRI/SPring-8) NAKANO, Shinya; MIZUKAMI, Masashi; OHTA, Noboru; YAGI, Naoto; HATTA, Ichiro; KURIHARA, Kazue

Chair: KASUYA, Motohiro (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(3A8-08, 3A8-10, 3A8-12, 3A8-13)

**3A8-08\*** Rapid Construction of Polymer Brushes on the Surface of Nanospheres Based on Disulfide Exchange Reaction and Their Bioinert Functions (Osaka Univ.) MATSUMOTO, Masahiro; MATSUSAKI, Michiya; AKASHI, Mitsuru

**3A8-10\*** Development of Novel Synthetic Method of Metal Oxide Nanoarrays and their Characteristic Properties (Kinki Univ.) SOEJIMA, Tetsuro; TSUJINO, Kenta; JIN, Ren-hua; ITO, Seishiro; KIMIZUKA, Nobuo

**3A8-12** AFM observation of adsorption of product molecules of autocatalytic chiral amplification reaction of pyrimidine carbaldehyde at chiral initiating crystal faces (Chuo University, Japan) FUJIOKA, Takashi; SHINDO, Hitoshi; NIKI, Kaori

**3A8-13** Density functional theory calculation study on interactions of carbon dioxide with inner surface of imogolite tube (Kyoto Institute of Technology) ITO, Suguru; YUMURA, Takashi; KOBAYASHI, Hisayoshi

Chair: SOEJIMA, Tetsuro (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(3A8-15, 3A8-16, 3A8-17, 3A8-18, 3A8-19, 3A8-20)

**3A8-15** Preparation and Characterization of Graphitic Monolayer using Aryl Halide Molecules (Hokkaido Univ.) FURUYA, Atomu; YASUDA, Satoshi; MURAKOSHI, Kei

**3A8-16** SERS observation of a single crystalline titanium dioxide electrode with Au nanostructures under electrochemical potential control (Hokkaido Univ.) SUZUKI, Kentaro; NAGASAWA, Fumika; FUTASHIMA, Ryo; YASUDA, Satoshi; MURAKOSHI, Kei

**3A8-17** Characterization of Boron and Nitrogen-Doped Graphene Synthesized by Chemical Vapor Deposition. (Hokkaido Univ.) ADACHI, Yuta; YASUDA, Satoshi; MURAKOSHI, Kei

**3A8-18** Fabrication of plasmonic photoelectric conversion system using titanium dioxide thin film prepared by liquid phase deposition method. (Hokkaido University) FUTASHIMA, Ryo; YASUDA, Satoshi; IKEDA, Katsuyoshi; MURAKOSHI, Kei

**3A8-19** Fabrication of two-dimensional gold (core)- silver (shell) nanoparticle films for surface-enhanced Raman scattering (SERS) (Nihon Univ.) TANOUE, Yoshimasa; SUGAWA, Kosuke; AKIYAMA, Tsuyoshi

**3A8-20** Preparation of atomically dispersed Au species on an oxide surface premodified with functional organic molecules with a mercapto group (CRC, Hokkaido Univ.) TAKAKUSAGI, Satoru; NOJIMA, Hirotaka; MIYAZAKI, Kotaro; ARIGA, Hiroko; UEHARA, Hiromitsu; CHUN, Wang-jae; IWASAWA, Yasuhiro; ASAKURA, Kiyotaka

## Sunday, March 24, PM

Chair: YUMURA, Takashi (13 : 30~14 : 20)

\* 13:20-13:30: interval for laptop PC connection.(3A8-28, 3A8-30, 3A8-31, 3A8-32)

**3A8-28\*** Wettability Control by Volume and Surface Free Energy Changes of Photo-crosslinkable Polymer Thin Films (Graduate School of Engineering, Osaka City Univ.) SATO, Eriko; NAGAI, Sayoko; MATSUMOTO, Akikazu

**3A8-30** One-pot and One-step Deposition of Palladium Nanoparticles onto Polymer Particles (Shinshu Univ.) HASAGAWA, Shota; SAKAI, Toshio

**3A8-31** Development of processes for polyimide-titanium adhesions using silanecoupling agents and hot pressing (Tokyo Univ. of Sci.) WATANABE, Kento; FUKAGAWA, Soichiro; HASHIZUME, Mineo

**3A8-32** Tunable interparticle gap of AuNPs for Surface Enhanced Raman Scattering through expansion and shrinkage of hydrogel (Faculty of Science, Hokkaido Univ.; RIES, Hokkaido Univ.) HORIE, Kenta; MITOMO, Hideyuki; SHIMAMOTO, Naonobu; MATSUO, Yasutaka; NIIKURA, Kenichi; OSADA, Yoshihito; IJIRO, Kuniharu

Chair: SAKAI, Toshio (14 : 30~15 : 30)

\* 14:20-14:30: interval for laptop PC connection.(3A8-34, 3A8-35, 3A8-37, 3A8-38, 3A8-39)

**3A8-34** Synthesis of Tin Oxide Nanosheet Assembly in Aqueous Solution and its Application to Hydrophobic/Hydrophilic Coating and Molecular Sensor (AIST) MASUDA, Yoshitake; KATO, Kazumi

**3A8-35\*** Redox Properties of Ferrocene-Terminated Self-Assembled Monolayers by First-Principle Molecular Dynamics (Grad. Sch. Eng. Sci., Osaka Univ.) YOKOTA, Yasuyuki; KANEDA, Yukio; MORIKAWA, Yoshitada; FUKUI, Ken-ichi

**3A8-37** Amperometric detection of metal ion using conductive boron-doped amorphous carbon electrode (Yamaguchi Univ. Graduate school of Science) NARAGINO, Hiroshi; YOSHINAGA, Kohsuke; NAKAHARA, Akira; TANAKA, Sakuya; HONDA, Kensuke

**3A8-37** Fabrication of wide-gap silicon doped amorphous carbon semiconductor for solar cell with high conversion efficiency (Grad. Sch. Sci. Eng., Yamaguchi Univ.) NARAGINO, Hiroshi; YOSHINAGA, Kohsuke; NAKAHARA, Akira; TANAKA, Sakuya; HONDA, Kensuke

**3A8-39** Fabrication of n-type phosphorous incorporated polycrystalline diamond semiconductor with lower resistivity by CVD method with solid and liquid source materials (Univ. of Yamaguchi) NAKAHARA, Akira; NARAGINO, Hiroshi; YOSHINAGA, Kohsuke; TANAKA, Sakuya; HONDA, Kensuke

## Room B1

### CO-LEARNING HOUSE II C605

## Coordination Chemistry, Organometallic Chemistry

Friday, March 22, AM

Chair: TAKANO, Yu (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(1B1-01, 1B1-02, 1B1-03, 1B1-05, 1B1-06)

**1B1-01** Photoactive Manganese Nitrosyls: Light-controlled Nitric Oxide Release and Cell Death (Doshisha Univ.) IWAMOTO, Yuji; HITOMI, Yutaka; SUEMOTO, Naoya; KODERA, Masahito

**1B1-02** Structural Models of the Oxygen-Evolving Center in Photosystem II: Synthesis of Mn/OH, Mn/Ca/O, Mn/Ca/OH Clusters Using H<sub>2</sub>O as the Oxygen Source (Graduate School of Science and Research Center for Materials Science, Nagoya University) KOGAWA, Yumiko; OHKI, Yasuhiro; TATSUMI, Kazuyuki

**1B1-03\*** Catalytic Hydroxylation by Myoglobin Reconstituted with a Porphyrine Manganese Complex (Osaka Univ.) OOHORA, Koji; KIHARA, Yushi; HAYASHI, Takashi

**1B1-05** Study on the Cytoprotective Effect of Mononuclear Iron and Manganese Complexes (Doshisha Univ.) MATSUDA, Shoko; HITOMI, Yutaka; KASHIDA, Akihiro; NOMURA, Akiko; KODERA, Masahito; SAITOU, Yoshirou; NOGUCHI, Noriko

**1B1-06** Spectroscopic Characterization and Reactivity of Mononuclear Iron Protein Containing 4-His Metal Binding Motif (Graduate School of Engineering, Osaka University) ISHIHAMA, Ken-ichi; FUJIEDA, Nobutaka; ITOH, Shinobu

Chair: ONODA, Akira (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(1B1-08, 1B1-09, 1B1-11, 1B1-12, 1B1-13)

**1B1-08** Preparation and Characterization of Metal-substituted Protein Containing 4-His Metal Binding Motif (Graduate School of Engineering, Osaka University) TANIGUCHI, Yuki; FUJIEDA, Nobutaka; ITOH, Shinobu

**1B1-09\*\*** Unified View of Metal Ion-Coupled Electron Transfer and Proton-Coupled Electron Transfer in Sulfoxidation and C-H Bond Activation with a Non-Heme Iron(IV)-Oxo Complex (Osaka Univ.; ALCA, JST) PARK, Jiyun; LEE, Yong-min; NAM, Wonwoo; FUKUZUMI, Shunichi

**1B1-11** Highly oxidized [8Fe-7S] clusters mimicking the structural changes of the nitrogenase P-cluster (Graduate School of Science, Nagoya University; Research Center for Materials Science, Nagoya University) SHIN, Kanyou; OHTA, Shun; OHKI, Yasuhiro; TATSUMI, Kazuyuki

**1B1-12** [3:1] Site-differentiated [4Fe-4S]<sup>1+/2+/3+</sup> Clusters Carrying a Tridentate Thiolate and a Carboxylate (Grad. Sch. Sci. and Res. Ctr. Mat. Sci., Nagoya Univ.) NAKAMURA, Tomohiko; TERADA, Tamaki; MATSUMOTO, Tsuyoshi; TATSUMI, Kazuyuki

**1B1-13** Syntheses and Structures of [Fe<sub>4</sub>S<sub>4</sub>] Clusters modeling the oxidized form of High-Potential Iron-Sulfur protein (HiPIP) (Grad. Sch. Sci. and RCMS, Nagoya Univ.) TANIFUJI, Kazuki; YAMADA, Norihiro; TAJIMA, Tomoyuki; OHKI, Yasuhiro; TATSUMI, Kazuyuki

Chair: HITOMI, Yutaka (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(1B1-15, 1B1-17, 1B1-18, 1B1-19, 1B1-20)

**1B1-15\*** Formation Pathway of Dinitrosyl Iron Complex through Nitration of [2Fe-2S] Cluster in Transcription Factor SoxR (ISIR Osaka University) FUJIKAWA, Mayu; KOBAYASHI, Kazuo; KOZAWA, Takahiro

**1B1-17** Synthesis and structure of a new model of nitrogenase P-cluster having terminal and bridging Tbt thiolates (Graduate School of Science, Nagoya University; Research Center for Materials Science, Nagoya University,

Institute for Chemical Reserch, Kyoto University) NAGASAKI, Ayaka; OHKI, Yasuhiro; TOKITOH, Norihiro; SASAMORI, Takahiro; AGOH, Tomohiro; TATSUMI, Kazuyuki

- 1B1-18** Synthesis of Thiolate-Bridged Fe-Ni Complexes with Nickel-Bound Phosphines as Structural Models for the Active Site of [NiFe] Hydrogenase (School of Science, Nagoya University; Graduate School of Science, Nagoya University; Research Center for Materials Science, Nagoya University) NAGAHARA, Atsumu; LI, Zilong; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 1B1-19** Synthesis of iron-sulfur Clusters Having Tridentate Thiolate: a Model Study of CO Dehydrogenase Active Site (Grad. Sch. Sci. and Res. Ctr. Mat. Sci, Nagoya Univ.) TANAKA, Kahō; TERADA, Tamaki; MATSUMOTO, Tsuyoshi; TATSUMI, Kazuyuki
- 1B1-20** Photochemical properties of a hemoprotein-semiconductor quantum dot conjugate (Department of Applied Chemistry, Graduate School of Engineering, Osaka University) HIMIYAMA, Tomoki; ONODA, Akira; HAYASHI, Takashi

### Friday, March 22, PM

Chair: OKAMURA, Taka-aki (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(1B1-28, 1B1-29, 1B1-30, 1B1-31, 1B1-32, 1B1-33)
- 1B1-28** Preparation and Functional Analysis of Myoglobin-based Fuel Cell Cathode Catalyst (Osaka Univ.) TANAKA, Yuta; ONO, Toshikazu; ONODA, Akira; HAYASHI, Takashi
- 1B1-29** Synthesis and Their Chemical Properties of Novel Heme-Alcoholate and Heme-Selenate (Graduate School of Pharmaceutical Science, Nagoya City University) SHIRAKAWA, Yoshinori; SUZUKI, Hiroshi; UMEZAWA, Naoki; KATO, Nobuki; HIGUCHI, Tunekiko
- 1B1-30** Physicochemical properties and reactivity of a corrole-iron complex inserted into hemoproteins (Osaka Univ.) MEICHIN, Hiroyuki; HAYASHI, Akihiro; OOHORA, Koji; MATSUO, Takashi; HAYASHI, Takashi
- 1B1-31** Synthesis of Thiolate-Bridged Fe-Ni Dinuclear Complexes Bearing a Bulky Thiolate or Isocyanides Modeling the Active Site of [NiFe] Hydrogenase (Graduate School of Science and Research Center for Materials Science, Nagoya University) MAKINO, Tetsuya; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 1B1-32** Dinuclear Nickel Complexes Coordinated by Diamido-dithiolate "mbea" : Models of the Active Site of Acetyl CoA Synthase (School of Science, Graduate School of Science, and Research Center for Materials Science, Nagoya University) OSU, Rie; OZAWA, Yuka; MATSUMOTO, Tsuyoshi; TATSUMI, Kazuyuki
- 1B1-33** Structure and Reaction Behavior of Vitamin B12-dependent Enzyme Modelusing Myoglobin (Osaka University; Kyushu University) MORITA, Yoshitsugu; OOHORA, Koji; HISAEDA, Yoshio; HAYASHI, Takashi

Chair: FUJII, Hiroshi (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(1B1-35, 1B1-36, 1B1-37, 1B1-38, 1B1-39, 1B1-40)
- 1B1-35** Computational study of the relationship between the molecular and electronic structures of the CuA site (IPR, Osaka Univ.) TAKANO, Yu; OKUYAMA, Orio; SHIGETA, Yasuteru; NAKAMURA, Haruki
- 1B1-36** Construction of a new cage type zinc(II) complex as a model compound of alcohol dehydrogenase (Nagoya Institute of Technology) NAKAMORI, Michio; MURASE, Masakazu; INOMATA, Tomohiko; OZAWA, Tomohiro; FUNAHASHI, Yasuhiro; MASUDA, Hideki
- 1B1-37** Synthesis of a cyclophane-type  $\alpha/\alpha/\zeta$ -oligopeptide towards an artificial enzyme with multi-functional nano-pockets (Grad. School of Science, The Univ. of Tokyo) CHIBA, Masayuki; TASHIRO, Shohei; SHIONOYA, Mitsuhiro
- 1B1-38** Structure and Properties of Desoxomolybdenum Enzyme Model Complexes Having Super-Bulky Hydrophobic Substituents (Graduate School of Science, Osaka University) HASENAKA, Yuki; OKAMURA, Taka-aki; ONITSUKA, Kiyotaka
- 1B1-39** Synthesis and Reaction of the Cubane-Type [MoFe<sub>3</sub>S<sub>4</sub>] Cluster Carrying Amide Ligands on Fe (Graduate School of Science and Research Center for Materials Science, Nagoya University) SENDA, Shunsuke; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 1B1-40** Development of Time-Resolved Luminescence Zinc Sensor with Long-term Intracellular Retention (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) AKAOKA, Kazushi; TAKI, Masayasu; YAMAMOTO, Yukio

Chair: TASHIRO, Shohei (15 : 50~16 : 40)

- \* 15:40-15:50: interval for laptop PC connection.(1B1-42, 1B1-44, 1B1-45)
- 1B1-42\*** An artificial metalloenzyme embedding a rhodium complex in the cavity of a nitrobindin mutant for phenylacetylene polymerization (Osaka Univ.) FUKUMOTO, Kazuki; ONODA, Akira; HAYASHI, Takashi
- 1B1-44** Preparation of Luminescent Metal Clusters In Porous Protein Crystals (Sch. Biosci. Biotech., Tokyo Tech) AKAI, Masaki; TANAKA, Yuya; TABE, Hiroyasu; HIKAGE, Tatsuo; KITAGAWA, Susumu; ABE, Satoshi; UENO, Takafumi
- 1B1-45\*** Organometallic Cluster Formations and Their Luminescent Properties In the Spherical Protein (Tokyo Institute of Technology, Graduate School of Bioscience and Biotechnology, Nagoya University Ultra High Intensity X-Ray

Deflection Laboratory) TANAKA, Yuya; ABE, Satoshi; HIKAGE, Tatsuo; UENO, Takafumi

Chair: SUGIMOTO, Hideki (16 : 50~17 : 40)

- \* 16:40-16:50: interval for laptop PC connection.(1B1-48, 1B1-49, 1B1-50, 1B1-51, 1B1-52)
- 1B1-48** Redox-active ligand-mediated Co-C bond formation of cobalt porphycene (Kyushu Univ.) SAEKI, Tatsuya; ARITOME, Isao; ONO, Toshikazu; SHIMAKOSHI, Hisashi; ABE, Masaaki; HISAEDA, Yoshio
- 1B1-49** Syntheses of Redox Active Nickel-containing Multimetal Complexes Using a Cage Type Ligand (Nagoya Institute of Technology) NISHINO, Tatsuya; INOMATA, Tomohiko; OZAWA, Tomohiro; FUNAHASHI, Yasuhiro; MASUDA, Hideki
- 1B1-50** Structural control of DNA by metal complexes with polynucleating-macrocylic ligands (Univ. of Doshisha; Bioinorganic and Chemical Biology Lab.) UETA, Satoshi; KODERA, Masahito; HITOMI, Yutaka; NOMURA, Akiko; YAMADA, Hitoshi; FUZINO, Shinichi
- 1B1-51** Development of Fluorescent Sensors for Copper(I) Based on a Ring Opening Reaction of Spiro Compounds (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) MITSUI, Koji; TAKI, Masayasu; YAMAMOTO, Yukio
- 1B1-52** Development of New Accelerating-ligands for Copper-catalyzed Azide-alkyne Cycloaddition (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) TERAWAKI, Tomonori; TAKI, Masayasu; YAMAMOTO, Yukio

Chair: TAKI, Masayasu (17 : 50~18 : 50)

- \* 17:40-17:50: interval for laptop PC connection.(1B1-54, 1B1-55, 1B1-57, 1B1-58, 1B1-59)
- 1B1-54** Reversible O<sub>2</sub>-binding of dicopper(I) complexes : kinetic studies of the O<sub>2</sub>-bonding and detection of new intermediate. (Doshisha Univ.) FURUMATSU, Hironao; TUJI, Miyuki; HITOMI, Yutaka; KODERA, Masahito
- 1B1-55\*** Reactivity of a Mononuclear Copper(II)-Superoxo Complex (Osaka University) TANO, Tetsuro; SUGIMOTO, Hideki; FUJIEDA, Nobutaka; ITOH, Shinobu
- 1B1-57** Characterization and reactivity of copper(I) and copper(II) complexes supported by a tridentate ligand having 1,4-diazacycloheptane framework. (Osaka University) ABE, Tsukasa; TANO, Tetsuro; SUGIMOTO, Hideki; FUJIEDA, Nobutaka; ITOH, Shinobu
- 1B1-58** Preparation of MOF with Menger Sponge like Structure (Graduate School of Chemical Science and Engineering, Hokkaido University) NAGATA, Shunjiro; KOKADO, Kenta; SADA, Kazuki
- 1B1-59** Preparation of shape-controlled polymer gel via Internal Cross-linking of Metal-Organic Framework (Graduate School of Sciences and Engineering, Hokkaido Univ.) ISHIWATA, Takumi; KOKADO, Kenta; SADA, Kazuki

## Resources Utilization Chemistry

### Saturday, March 23, PM

Chair: NOKAMI, Toshiki (13 : 10~14 : 00)

- \* 13:00-13:10: interval for laptop PC connection.(2B1-26, 2B1-27, 2B1-28, 2B1-29, 2B1-30)
- 2B1-26** No-D NMR analysis of cellulose in ionic liquids (Tokyo University of Agriculture and Technology, Functional Ionic Liquid Laboratories) KUNIMURA, Haruhito; KURODA, Kosuke; FUKAYA, Yukinobu; OHNO, Hiroyuki
- 2B1-27** Production of an Electrode for Metal Recovery Using Carbon-Alumina Composite (Nagano Pref. General Industrial Technology Center) AZEGAMI, Tatsunori; MIYAZAWA, Masanori; KOBAYASHI, Satoshi
- 2B1-28** A new rapid conversion reaction of sorbitol in ionic liquids under microwave irradiation (Yamaguchi University; Ube Industries) OKAGAWA, Tomoki; KAISO, Kouji; MATSUMOTO, Hiroshi; KAMIMURA, Akio
- 2B1-29** Separation and recovery of phosphate ion from water by adsorption-desorption on metal oxides and active carbons (Graduate School of Environmental Science, Hokkaido Univ.; Research Faculty of Environmental Earth Science, Hokkaido Univ.) MIYAZATO, Toshiki; KAMIYA, Yuichi
- 2B1-30** depolymerization of polyamides using ionic liquids and microwave irradiation (Yamaguchi University) OTSUKA, Tamami; KAMIMURA, Akio

Chair: KAMIMURA, Akio (14 : 10~15 : 00)

- \* 14:00-14:10: interval for laptop PC connection.(2B1-32, 2B1-33, 2B1-34, 2B1-36)
- 2B1-32** Bioethanol production from napiergrass through UM method (University of Miyazaki, Faculty of Engineering) YASUDA, Masahide; ISHII, Yasuhisa; OHITA, Kazuhoshi
- 2B1-33** Bioethanol Production using All the Sweet Sorghum in North Japan (Faculty of Education, Hirosaki Univ.) ONODERA, Mika; CHOUNAN, Yukiyasu
- 2B1-34\*** Methanolysis of PET under pressurized microwave irradiation (Sojo Univ.) IKENAGA, Kazutoshi; ITO, Yusuke; YAMAMOTO, Masahiro; DEGURA, Tsuyoshi; KAMEYAMA, Takehiko
- 2B1-36** Extraction and Isolation of Shikimic Acid from Ginkgo Biloba Leaves Utilizing an Ionic Liquid that Dissolves Cellulose (Faculty of Science and

Technology, Sophia University) YASUDA, Nanae; FUJITA, Masahiro; RIKUKAWA, Masahiro; USUKI, Toyonobu

Chair: KAMIYA, Yuichi (15 : 10~16 : 00)

- \* 15:00-15:10: interval for laptop PC connection.(2B1-38, 2B1-39, 2B1-40, 2B1-41)
- 2B1-38** Design of Lignin Dissolving Ionic Liquids (Tottori University) HAMADA, Yukoh; YOSHIDA, Kohei; ASAI, Ryoichi; HAYASE, Shuichi; NOKAMI, Toshiki; ITOH, Toshiyuki
- 2B1-39** Development of an environmental benign method for extraction of lignin from wood biomass using ionic liquid (Tottori University) YOSHIDA, Kohei; ASAI, Ryo-ichi; HAMADA, Yu-ko-; HAYASE, Shuichi; NOKAMI, Toshiki; ITOH, Toshiyuki
- 2B1-40** Dimethyl sulfoxide as an efficient co-solvent with amino acid ionic liquid to realize cellulose dissolution (Tottori University) ASAI, Ryo-ichi; YOSHIDA, Kohei; HAYASE, Shuichi; NOKAMI, Toshiki; ITOH, Toshiyuki
- 2B1-41\*** Development of Rare Metal Recycling System by Homogeneous Liquid-Liquid Extraction Method (HoLLE) Enabling Reuse of Separation Media -as an Example for In of LCD in Mobile Phone- (Ibaraki Univ.) KATO, Takeshi; IGARASHI, Shukuro; ISHIWATARI, Yoshiyuki; ANDO, Ryo; FURUKAWA, Makoto; YAMAGUCHI, Hitoshi

Chair: ARITANI, Hirofumi (16 : 10~17 : 00)

- \* 16:00-16:10: interval for laptop PC connection.(2B1-44, 2B1-45, 2B1-46, 2B1-48)
- 2B1-44\*** Steam hydrolysis of bisphenol A polycarbonate in the presence of MgO (Grad. Sch. Environmental Studies, Tohoku Univ.) KAERRBRANT, Rikard; GRAUSE, Guido; KAMEDA, Tomohito; YOSHIOKA, Toshiaki
- 2B1-45** Catalytic Gasification of Wastes from Biomass Ethanol production process in supercritical water (AIST; Research Center for Compact Chemical System) SATO, Osamu; MURAKAMI, Yuka; YAMAGUCHI, Arimoto; HIYOSHI, Norihito; SHIRAI, Masayuki
- 2B1-46\*** Pyrolysis studies of printed-circuit boards based on thermoset resin (Grad. Sch. Environmental Studies, Tohoku Univ.) KUMAGAI, Shogo; GRAUSE, Guido; KAMEDA, Tomohito; YOSHIOKA, Toshiaki
- 2B1-48** Catalytic oxidation of alkali lignin (Chem. Res. Lab., Tokyo Tech) ENDO, Masaaki; TAMAKI, Yukihiko; IWAMOTO, Masakazu

## Sunday, March 24, AM

Chair: KAMEDA, Tomohito (10 : 00~10 : 50)

- \* 9:50-10:00: interval for laptop PC connection.(3B1-07, 3B1-08, 3B1-09, 3B1-10, 3B1-11)
- 3B1-07** Study on Co-liquefaction of waste plastics and waste wood (Graduate School of science and Technology, Nihon Univ.) THODA, Tatuya; MIYASAKA, Hidetomo; HIDA, Shouta; ITOU, Takuya; KAKUTA, Yusuke; HIRANO, Katumi
- 3B1-08** Study on coal liquefaction with soft pitch (College of Science and Technology, Nihon University) SHINODA, Ken; TAMARU, Shinji; ITOU, Takuya; KAKUTA, Yusuke; HIRANO, Katsumi
- 3B1-09** Oxidative Desulfurization of Coal Tar Pitch (AIST) YAZU, Kazumasa; TAKANOHASHI, Toshimasa
- 3B1-10\*** Partial reduction of CO<sub>2</sub> with CH<sub>4</sub> by using non-equilibrium plasma processes (Saitama Institute of Technology) SUGAWARA, Toshifumi; ARITANI, Hirofumi; OGATA, Atsushi
- 3B1-11** Catalytic effect for decomposition of blockage during waste plastic liquefaction with Silica-Supported Nickel oxide catalyst (Graduate School of science and Technology, Nihon University) IJIMA, Fumiaki; SUEMATU, Fumiaki; TAKEDA, Toru; KOBUTI, Yudai; ITO, Takuya; KAKUTA, Yusuke; HIRANO, Katumi

Chair: HIRANO, Katsumi (11 : 00~11 : 50)

- \* 10:50-11:00: interval for laptop PC connection.(3B1-13, 3B1-14, 3B1-16, 3B1-17)
- 3B1-13** Determination of the ratio between pyrolysis and hydrolysis during the thermal decomposition of poly(ethylene terephthalate) in steam atmosphere. (Grad. Sch. Environmental Studies, Tohoku Univ.) MOROHOSHI, Yuto; KUMAGAI, Shogo; GURAUZE, Guido; KAMEDA, Tomohito; YOSHIOKA, Toshiaki
- 3B1-14\*** Purification of Si Crystals by Dissolution and Recrystallization in a Na Melt (Univ. of Tohoku, IMRAM) MORITO, Haruhiko; KARAHASHI, Taiki; UCHIKOSHI, Masahito; ISSHIKI, Minoru; YAMANE, Hisanori
- 3B1-16** Chemical Recycling of Video Tape with Subcritical Methanol (Teikyo University) YANAGIHARA, Naohisa; AKIMOTO, Sawako
- 3B1-17\*** Evaluation of the steam decomposition process for the recycling of PVC (Grad. Sch. Environmental Studies, Tohoku Univ.) FONSECA, Juan; GURAUZE, Guido; KAMEDA, Tomohito; YOSHIOKA, Toshiaki

## Coordination Chemistry, Organometallic Chemistry

### Monday, March 25, AM

Chair: HORIKE, Satoshi (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4B1-01, 4B1-02, 4B1-03,

4B1-04, 4B1-05)

- 4B1-01** Development of Cu(I) Complex with Asymmetric Ligand and its Application to DSSCs (Nagoya Institute of Technology) KAWAI, Yuya; INOMATA, Tomohiko; WASADA, Yuko; FUNAHASHI, Yasuhiro; OZAWA, Tomohiro; MASUDA, Hideki
- 4B1-02** Sensing microbes using artificial siderophore-modified Au substrates (Nagoya Institute of Technology) MURASE, Takanori; INOMATA, Tomohiko; FUNAHASHI, Yasuhiro; OZAWA, Tomohiro; MASUDA, Hideki
- 4B1-03** A self-assembled monolayer of an ionic liquid with terminal olefins encapsulating diiron complexes for O<sub>2</sub>-activation (NAGOYA INSTITUTE OF TECHNOLOGY) NISHINO, Jumpei; KITAGAWA, Tatsuya; INOMATA, Tomohiko; FUNAHASHI, Yasuhiro; OZAWA, Tomohiro; MASUDA, Hideki
- 4B1-04** A One-Compartment H<sub>2</sub>O<sub>2</sub> Fuel Cell Using Fe<sub>3</sub>[Co(CN)<sub>6</sub>]<sub>2</sub> as a Cathode (Osaka Univ.; ALCA, JST) YONEDA, Masaki; YAMADA, Yusuke; FUKUZUMI, Shunichi
- 4B1-05\*** Construction of silver nanoparticles-porphyrin nanocomposite layers and their plasmon-enhanced photocurrent (Yamagata Univ.) KANAIZUKA, Katsuhiko; YAGYU, Shigeta; KAZIKAWA, Azusa; KURIHARA, Masato; SAKAMOTO, Masatomi

Chair: INOKUMA, Yasuhide (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(4B1-08, 4B1-10, 4B1-12)
- 4B1-08\*** Electro-oxidation of alcohols and sugars by Rh porphyrins for the application to direct fuel cells. (AIST) YAMAZAKI, Shin-ichi; FUJIWARA, Naoko; ASAH, Masafumi; YAO, Masaru; SIROMA, Zyun; NAGAI, Tsukasa; IOROI, Tsutomu
- 4B1-10\*** Synthesis and crystal size control of porous coordination polymers with light-induced Nitric oxide releasing property (Grad. School of Eng., Kyoto Univ.) KIM, Chiwon; DIRING, Stephane; KAMEI, Kenichiro; FURUKAWA, Shuhei; KITAGAWA, Susumu
- 4B1-12\*** Control of sorption properties of porous coordination polymers for bioactive molecules (Grad. School of Eng., Kyoto Univ., iCeMS, Kyoto Univ.) NAKAHAMA, Masashi; REBOUL, Julien; KAMEI, Ken-ichiro; FURUKAWA, Shuhei; KITAGAWA, Susumu

Chair: OZAWA, Tomohiro (11 : 20~12 : 00)

- \* 11:10-11:20: interval for laptop PC connection.(4B1-15, 4B1-17)
- 4B1-15\*** Electrochemical dioxygen reduction catalyzed by copper complexes of pyridylalkylamine ligands in aqueous solution (AIST) ASAH, Masafumi; YAMAZAKI, Shin-ichi; SIROMA, Zyun; FUJIWARA, Naoko; NAGAI, Tsukasa; ITOH, Shinobu; IOROI, Tsutomu
- 4B1-17\*** Highly thermostable proton conductivity in a coordination polymer (Kyoto Univ. iCeMS) INUKAI, Munehiro; HORIKE, Satoshi; UMEYAMA, Daiki; KITAGAWA, Susumu

## Monday, March 25, PM

Chair: SHIONOYA, Mitsuhiko (13 : 10~14 : 00)

- \* 13:00-13:10: interval for laptop PC connection.(4B1-26, 4B1-29, 4B1-30)
- 4B1-26 CSJ Award for Outstanding Young Women Chemists** Molecular-Level Design and Visualization of Structures and Catalytic Functions on Solid Surfaces (IMS) Tada, Mizuki
- 4B1-29** Adsorption and multilayering of ruthenium dinuclear complexes with pyrene group on graphene (Faculty of science and engineering, Chuo University) YOSHIKAWA, Kai; HASEGAWA, Takumi; NAKAMURA, Yu; OZAWA, Hiroaki; HAGA, Masa-aki
- 4B1-30** Synthesis and properties of novel Ru complexes adsorbed on graphene (Faculty of Science and Engineering, Chuo University) HASEGAWA, Takumi; YOSHIKAWA, Kai; OZAWA, Hiroaki; HAGA, Masa-aki

Chair: HAGA, Masaaki (14 : 20~15 : 10)

- \* 14:10-14:20: interval for laptop PC connection.(4B1-33, 4B1-34, 4B1-35, 4B1-36, 4B1-37)
- 4B1-33** High selective CO<sub>2</sub> gas adsorption behavior of crystalline Ni(II)-macrocyclic of beta-dipeptide (Ochanomizu Univ.; Univ. of Tokyo) MIYAKE, Ryosuke; SHIONOYA, Mitsuhiko
- 4B1-34** Adsorption behavior of polymer particles templated by porous metal complexes (Kyoto Univ.) KASEDA, Tetsuya; UEMURA, Takashi; KITAGAWA, Susumu
- 4B1-35** Ring-Opening Polymerization of Thietane induced by Porous Metal Complexes (Kyoto Univ., Institute for Integrated Cell-Material Sciences) KITAO, Takashi; UEMURA, Takashi; KITAGAWA, Susumu
- 4B1-36** Controlled synthesis of highly oriented polymers in crosslinkable porous metal complexes (Kyoto Univ.) NAKANISHI, Ryo; UEMURA, Takashi; KITAGAWA, Susumu
- 4B1-37** Synthesis of nanosized cerium oxide in a porous coordination polymer (Graduate School of Engineering, Kyoto Univ.) KIM, Cho Rong; UEMURA, Takashi; KITAGAWA, Susumu

Chair: SADA, Kazuki (15 : 30~16 : 10)

- \* 15:20-15:30: interval for laptop PC connection.(4B1-40, 4B1-41, 4B1-43)
- 4B1-40** Synthesis and evaluation of strong red emission europium complexes having the affinity to the surface of inorganic materials (Graduate School of

Engineering, Kyushu Institute of Technology) ODA, Terumitsu; MORIGUCHI, Tetsuji; TSUGE, Akihiko

- 4B1-41\*** Formation and Phosphate Hydrolysis Activity of Supramolecular Phosphatases Formed by Self-Assembly of Dimeric Zinc(II) Complex with Functionalized Building Blocks (Fac. Pharm. Sci., Tokyo Univ. of Sci.; Center Tech. against Cancer, Tokyo Univ. of Sci.; Universiti Teknologi MARA; Rigaku X-Ray Laboratory) AOKI, Shin; SUZUKI, Asami; TANAKA, Ryuo; MOHD, Zulkefeli; HISAMATSU, Yosuke; SHIRO, Motoo
- 4B1-43** Separation of enantiomers using chiral helical coordination polymer (Kansai Univ.) MURAOKA, Toshihide; TANAKA, Koichi

## Room B2

### CO-LEARNING HOUSE II C606

#### Energy and Related Chemistry

Friday, March 22, AM

Chair: ABE, Takeshi (10:00~11:00)

- \* 9:50-10:00: interval for laptop PC connection.(1B2-07, 1B2-08, 1B2-09, 1B2-10, 1B2-11)
- 1B2-07** Thermochemical water-splitting by reactive ceramic materials (26) Kinetic analysis of thermochemical two-step water splitting cycle using CeO<sub>2</sub> particles. (Niigata University) ISHIDA, Tomoya; SATO, Yusuke; HATAMACHI, Tsuyoshi; GOKON, Nobuyuki; KODAMA, Tatsuya
- 1B2-08** Solar water-splitting tests of reactive foam device by 45kW solar furnace (Fac. Eng., Niigata Univ.) KAWAKAMI, Shintaro; SATO, Naoki; MYOJIN, Takuya; CHO, Hyun Seok; KANG, Yong Heack; GOKON, Nobuyuki; KODAMA, Tatsuya
- 1B2-09** Solar thermochemical reforming of methane(25)Solar steam reforming using Ni catalyst-coated ceramic foam device (Niigata University) NAKAMURA, Shohei; SIMAWAKI, Kazunori; HATAMACHI, Tsuyoshi; GOKON, Nobuyuki; KODAMA, Tatsuya
- 1B2-10** Solar gasification of coal by Direct Irradiation (12)Solar steam gasification with an internally-circulating fluidized bed of coal cokes. (Niigata Univ.) IZAWA, Takuya; ONO, Ryuta; HATAMACHI, Tsuyoshi; GOKON, Nobuyuki; KODAMA, Tatsuya
- 1B2-11\*** Storage of Oxygen and Hydrogen in Organo-Disilane Modified Zeolites (AIST-Kansai; SINTEF) FUJIWARA, Masahiro; FUJIO, Yoshiharu; SAKURAI, Hiroaki; SENOH, Hiroshi; KIYOBAYASHI, Tetsu; KUMAKIRI, Izumi

Chair: FUJIWARA, Masahiro (11:10~12:10)

- \* 11:00-11:10: interval for laptop PC connection.(1B2-14, 1B2-16, 1B2-17, 1B2-18, 1B2-19)
- 1B2-14\*** Hydrogen storage in nanocarbons evaluated by Langmuir isotherm (Tokai Univ.) ISHIKAWA, Shigeru
- 1B2-16** Electrochemical Performance of Supercapacitor with Electrode Material Carbonized from Azulmic Acid (Kansai University; Asahi Kasei Chemicals Corporation) UEMURA, Ayano; HINAGO, Hidenori; YAMAGATA, Masaki; ISHIKAWA, Masashi
- 1B2-17** Evaluation of surfactant free nano-emulsion as a phase change materials for latent heat storage applications (Chiba Institute of Technology) KAWADA, Chihiro; USAMI, Kotaro; EGUCHI, Toshihiko; YAZAWA, Yuuki
- 1B2-18** Development of H<sub>2</sub>/O<sub>2</sub> Generation micro device for Micro Fuel Cells (The Univ. of Tokyo) KAJITA, Yasuhito; PIHOSH, Yuri; MAWATARI, Kazuma; KITSUMORI, Takehiko
- 1B2-19** Development of Micro Fuel Cell Device Utilizing Extended Nanochannels (Sch. Eng., The Univ. of Tokyo) CHINEN, Hiroyuki; MAWATARI, Kazuma; PIHOSH, Yuri; KITAMORI, Takehiko

Friday, March 22, PM

Chair: NAGAO, Yuki (14:30~15:30)

- \* 14:20-14:30: interval for laptop PC connection.(1B2-34, 1B2-36, 1B2-38)
- 1B2-34\*** Highly stable platinum subnano-cluster catalysts (Chemical Resources Laboratory, Tokyo Institute of Technology) IMAOKA, Takane; CHUN, Wang-jae; YAMAMOTO, Kimihisa
- 1B2-36\*** The effects of the kind of carbon supports for Pt in polymer electrolyte fuel cells on oxygen reduction reaction activity and catalyst durability in repeated potential cycles (The Univ. of Electro-Communications; JASRI/SPRING-8) NAGASAWA, Kensaku; NAGAMATSU, Shin-ichi; TAKAO, Shinobu; SAMJESKE, Gabor; IMAIZUMI, Yoshiaki; SEKIZAWA, Oki; YAMAMOTO, Takashi; URUGA, Tomoya; IWASAWA, Yasuhiro
- 1B2-38\*** New Designing and Analytical Method of the Electrocatalyst for Oxygen Reduction Reaction with Non-Noble Metals in Alkaline Solution by using Scanning Electrochemical Microscopy (Osaka Prefecture University) CHIKU, Masanobu; TERANISHI, Rie; HIGUCHI, Eiji; INOUE, Hiroshi

Chair: CHIKU, Masanobu (15:40~17:00)

- \* 15:30-15:40: interval for laptop PC connection.(1B2-41, 1B2-43, 1B2-45, 1B2-46, 1B2-47, 1B2-48)
- 1B2-41\*\*** In-situ XAFS and electrochemical studies on Pt-Sn(oxidized)/C and Pt-Sn(reduced)/C cathode catalysts in polymer electrolyte fuel cells during oxygen reduction reaction processes (The University of Electro-Communications; JASRI/Spring-8) SAMJESKE, Gabor; NAGAMATSU, Shin-ichi; NAGASAWA, Kensaku; IMAIZUMI, Yoshiaki; TAKAO, Shinobu; SEKIZAWA, Oki; YAMAMOTO, Takashi; URUGA, Tomoya; IWASAWA, Yasuhiro
- 1B2-43\*** Study on novel Pt core- SnO<sub>2</sub> shell catalysts with high activities for fuel cells. (The Univ. of Electro-Communications; JASRI) TAKAO, Shinobu; NAGASAWA, Kensaku; TAKAO, Koichiro; TSUKAHARA, Takehiko; YAMAMOTO, Takashi; NAGAMATSU, Shi-ichi; SAMJESKE, Gabor; IMAIZUMI, Yoshiaki; IWASAWA, Yasuhiro
- 1B2-45** Study of Co(II)Porphyrin-Based Fuel Cell Catalyst on a Substrate Surface (JAIST) OHYAMA, Takahiro; NAGAO, Yuki
- 1B2-46** Proton transport property at the Nafion-oxide interface with oriented structures (JAIST) NAGAO, Yuki
- 1B2-47** Proton transport change by changing a degree of protonation in polyaspartic acids (JAIST) KUBO, Takahiro; NAGAO, Yuki
- 1B2-48** Proton Transport Property of Sulfonated Polyimide Thin Films (JAIST) NORO, Masaki; NAGAO, Yuki

Saturday, March 23, AM

Chair: TOMITA, Yasumasa (9:00~10:10)

- \* 8:50-9:00: interval for laptop PC connection.(2B2-01, 2B2-02, 2B2-03, 2B2-04, 2B2-05, 2B2-06, 2B2-07)
- 2B2-01** Electrochemical oxygen separation using hydroxide ion-conductive layered double hydroxides as solid electrolyte (Osaka Prefecture University) TADANAGA, Kiyoharu; ARISHIGE, Yuji; HAYASHI, Akitoshi; TATSUMISAGO, Masahiro
- 2B2-02\*** RuO<sub>2</sub> Nanoparticles as Oxygen Evolution Reaction Catalysts for Li-O<sub>2</sub> Battery Cathode (RIKEN) YILMAZ, Eda; BYON, Hye Ryung
- 2B2-03\*** In-situ XRD Study of Li-O<sub>2</sub> Electrochemical Reaction in Rechargeable Lithium-Oxygen Battery (RIKEN) BYON, Hye Ryung; LIM, Hyunseob; YILMAZ, Eda
- 2B2-04** Electrochemical Deposition/Dissolution Properties of Metallic Aluminum Dipropylsulfone and Its Application to Aluminum Rechargeable Battery (Osaka Prefecture University) TAKEDA, Hiroki; HIGUCHI, Eiji; CHIKU, Masanobu; INOUE, Hiroshi
- 2B2-05** Rechargeable batteries using benzoquinone derivatives (Osaka Prefecture Univ.; Murata Manufacturing Co.) YOKOJI, Takato; MATSUBARA, Hiroshi; SATO, Masaharu
- 2B2-06** Photovoltaic and Charging-Discharging Properties for Energy-Storage Dye-Sensitized Solar Cell Combined with Radical Polymer-based Secondary Battery (Dept of Appl. Chem., Waseda Univ.) UENO, Masahiro; KASHIWAGI, Satomi; SUZUKA, Michio; KATO, Fumiaki; OYAIZU, Kenichi; NISHIDE, Hiroyuki
- 2B2-07** Electrochemical Analysis of Li<sub>2</sub>S-P<sub>2</sub>S<sub>5</sub> Solid Electrolyte/Li Alloy Electrode Interfaces (Osaka Prefecture University) KORETAKA, Naoto; HIGUCHI, Eiji; CHIKU, Masanobu; INOUE, Hiroshi

Chair: INOUE, Hiroshi (10:20~11:10)

- \* 10:10-10:20: interval for laptop PC connection.(2B2-09, 2B2-10, 2B2-11, 2B2-13)
- 2B2-09\*** Tailoring the Structure of Phenanthroline Based Organic-Metallic Hybrid Polymers for Humidity Sensitive Conductivity (NIMS; JST-CREST) PANDEY, Rakesh Kumar; HOSSAIN, Md.Delwar; MORIYAMA, Satoshi; HIGUCHI, Masayoshi
- 2B2-10** Electrochemical properties of novel organoboron ionic liquid (Sch. Mat. Sci., JAIST) TOYOTA, Yoshiyuki; VEDARAJAN, Raman; MATSUMI, Noriyoshi
- 2B2-11\*** Synthesis, crystal structure and Mg ionic conductivity of MgAl<sub>2</sub>X<sub>8</sub>(X=Cl,Br) (Univ. of shizuoka) TOMITA, Yasumasa; MORISHITA, Makoto; KOBAYASHI, Kenkichi
- 2B2-13** Preparation of magnesium conducting MgS-P<sub>2</sub>S<sub>5</sub>-MgI<sub>2</sub> solid electrolytes by a mechanochemical technique (Osaka Prefecture University Graduate School of Engineering) HAYASHI, Akitoshi; YAMANAKA, Tomohiro; YAMAUCHI, Akihiro; TATSUMISAGO, Masahiro

Chair: OYAIZU, Kenichi (11:20~12:00)

- \* 11:10-11:20: interval for laptop PC connection.(2B2-15, 2B2-16, 2B2-17, 2B2-18)
- 2B2-15** Preparation of sodium ion conducting Na<sub>2</sub>S-P<sub>2</sub>S<sub>5</sub>-NaI glass electrolytes by a mechanochemical technique (Grad. Sch. Eng., Osaka Pref. Univ.) HAYASHI, Akitoshi; HIBI, Yoshiaki; TANIBATA, Naoto; TATSUMISAGO, Masahiro
- 2B2-16** Evaluation of Young's moduli of Li<sub>2</sub>S-P<sub>2</sub>S<sub>5</sub>-based sulfide glass electrolytes (Grad. Sch. Eng., Osaka Pref. Univ.) HAYASHI, Akitoshi; KATO, Atsutaka; NAGAO, Motohiro; SAKUDA, Atsushi; TATSUMISAGO, Masahiro
- 2B2-17** Preparation of LiCoO<sub>2</sub> and LiTi<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub> particles using paraffin and surfactant as reaction media (Osaka Pref. Univ.) HAYASHI, Akitoshi;

HARADA, Ryo; ASO, Keigo; TATSUMISAGO, Masahiro

**2B2-18** Spatially resolved analysis of cathode reactions in lithium-ion secondary battery by means of 2D-imaging XAFS technique (Ritsumeikan University) HAYASHI, Kazuhiro; SUMIWAKA, Kouichi; KATAYAMA, Misaki; INADA, Yasuhiro

### Saturday, March 23, PM

Chair: UMEYAMA, Tomokazu (13 : 10~14 : 20)

\* 13:00-13:10: interval for laptop PC connection.(2B2-26, 2B2-27, 2B2-28, 2B2-30, 2B2-31)

**2B2-26** Long-lived photoinduced charge separation in triphenylamine-naphthalenediimide diads in organic glass matrixes (Univ. of Toyama) KIMOTO, Kenshi; HORIKOSHI, Takafumi; SUZUKI, Shuichi; KOZAKI, Masatoshi; OKADA, Keiji; IWAMURA, Munetaka; NOZAKI, Koichi

**2B2-27** Photochemical Oxygenation Reaction of Cyclohexene Sensitized by Metalloporphyrin-Clay Complexes (Tokyo Metropolitan Univ. ;Takagi Lab.) TSUKAMOTO, Takamasa; SHIMADA, Tetsuya; INOUE, Haruo; TAKAGI, Shinsuke

**2B2-28\*** Synthesis and Photo-induced Intramolecular Electron Transfer of Novel Ruthenium-Peptide Complexes Attached to Viologen (Kitasato University; PRESTO JST) ISHIDA, Hitoshi; SHIINA, Yoshimi; NABETANI, Yu; TACHIBANA, Hiroshi; INOUE, Haruo

**2B2-30** Analysis of Light-Harvesting 1 Reaction Center Complex from Photosynthetic Purple Sulfur Bacterium *Thermochromatium tepidum* by Perfusion-Induced Infrared Spectroscopy (Kobe Univ.) YONG, Li; KIMURA, Yukihiko; OTOMO, Sei; OHNO, Takashi

**2B2-31\*** An Approach to Photosynthetic Primary Processes by Means of SEMO Calculation of Electronic States Consideration of Geometrically Optimized Special Pairs in Photosynthetic Bacteria (CACH Labo.; Univ. of Toyama; Shinshu Univ.) SUZUKI, Satoshi; UMEZAKI, Masahito; NISHIKIORI, Hiromasa

Chair: YAGI, Shigeyuki (14 : 30~15 : 30)

\* 14:20-14:30: interval for laptop PC connection.(2B2-34, 2B2-35, 2B2-36, 2B2-37, 2B2-38, 2B2-39)

**2B2-34** Dye-sensitized Solar Cell using Optimized Zinc Phthalocyanines Complexes (Faculty of Textile Science and Technology, Shinshu university) IKEUCHI, Takuro; NOMOTO, Hirota; MORI, Shogo; KIMURA, Mutsumi

**2B2-35** Development of cobalt complex electrolyte and organic dye for dye-sensitized solar cell (Faculty of Textile Science and Technology, Shinshu university) YOSHII, Nobuhiro; MASAKI, Naruhiko; MORI, Shougo; KIMURA, Mutsumi

**2B2-36** Oxidative Polymerization onto the surface of Titanium oxide nanoparticles for Dye-sensitized Solar Cell (Faculty of Textile Science and Technology, Shinshu university) SASAGAWA, Naoki; KIMURA, Mutsumi

**2B2-37** Study on the efficiency improvement of highly durable plastic-substrate dye-sensitized solar cell (Tokyo Univ. of Science) MUROYA, Shogo; KUDO, Tomohiro; WATANABE, Naoya; SHIBAYAMA, Naoyuki; OZAWA, Hironobu; ARAKAWA, Hironori

**2B2-38** Study on efficiency improvement of high-durability dye-sensitized solar cell (Tokyo Univ. of Science) KATANO, Daichi; YAMASHITA, Satoshi; MITA, Kazutaka; OZAWA, Hironobu; ARAKAWA, Hironori

**2B2-39** Study on the preparation of highly efficient carbonaceous counter-electrode of dye-sensitized solar cell and its performance (Tokyo University of Science) NOZAWA, Kouya; OZAWA, Hironobu; ARAKAWA, Hironori

Chair: WADA, Yuji (15 : 40~16 : 30)

\* 15:30-15:40: interval for laptop PC connection.(2B2-41, 2B2-42, 2B2-43, 2B2-44, 2B2-45)

**2B2-41** Control of the Physical Properties of TiO<sub>2</sub>-TCNX Surface Complex Solar Cells by Alkanediol Coadsorbents (RCAST, Univ. of Tokyo; JST, PREST; College of Arts and Sciences, Univ. of Tokyo) TANI, Shigeyuki; FUJISAWA, Jun-ichi; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi

**2B2-42** Organic Solar Cells based on Surface Complex Formed from TiO<sub>2</sub> and a Dicyanomethylene Compound with an Indan Structure (RCAST, Univ. of Tokyo; JST, PREST; College of Arts and Sciences, Univ. of Tokyo) USHIJIMA, Takuro; FUJISAWA, Jun-ichi; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi

**2B2-43** The development of novel unsymmetrical squarylium sensitizers bearing various heterocyclic components for photo-electric conversion in the long-wavelength region (Osaka Pref. Univ.) NITTA, Shohei; MAEDA, Takeshi; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki

**2B2-44** Panchromatic Squaraine Dyes with Branched structures for Dye-Sensitized Solar Cell Application (Osaka Pref. Univ.) MIYANAGA, Kyohei; MAEDA, Takeshi; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki

**2B2-45** Solution-phase Synthesis of Ag-based Complex Sulfide Nanoparticles and Photoelectrochemical Properties (Nagoya Univ.) FUJITA, Shigetoshi; SASAMURA, Tetsuya; KAMEYAMA, Tatsuya; KUWABATA, Susumu; TORIMOTO, Tsukasa

Chair: HAN, Liyuan (16 : 40~17 : 30)

\* 16:30-16:40: interval for laptop PC connection.(2B2-47, 2B2-48, 2B2-49,

2B2-50, 2B2-51)

**2B2-47** Direct Growth of Anisotropic TiO<sub>2</sub> Sheets by Facet Control and Application to Dye-Sensitized Solar Cells (Dpt. of Appl. Chem., Grad. School of Sci. and Eng., Tokyo Inst. Tech.) SATO, Hirokazu; MAITANI, Masato; TANAKA, Keita; MOCHIZUKI, Dai; SUZUKI, Eiichi; WADA, Yuji

**2B2-48** Facet Effects of Anatase TiO<sub>2</sub> Nanoporous Electrode on Properties of Dye-sensitized Solar Cells (Grad.School of Sci.and Eng., Tokyo Inst.Tech.) HASHIMOTO, Keitaro; MAITANI, Masato; TANAKA, Keita; MOCHIZUKI, Dai; SUZUKI, Eiichi; WADA, Yuji

**2B2-49** Rapid Sintering of Nanoporous TiO<sub>2</sub> Films by Single Mode Microwave Heating (Grad. School of Sci. and Eng., Tokyo Inst. Tech.) INOUE, Tomoharu; MAITANI, Masato; MOCHIZUKI, Dai; SUZUKI, Eiichi; WADA, Yuji

**2B2-50** Effects of the adsorption behavior of the ruthenium sensitizer having an ortho-dicarboxyphenyl unit on the performance of dye-sensitized solar cell (Tokyo Univ. of Science) SUGIURA, Takahito; OZAWA, Hironobu; ARAKAWA, Hironori

**2B2-51** Synthesis of a novel ruthenium sensitizer having an ortho-dicarboxyl group as an anchoring unit for dye-sensitized solar cell (Tokyo Univ. of science) FUKUSHIMA, Kei; YAMAMOTO, Yasuyuki; OZAWA, Hironobu; ARAKAWA, Hironori

### Sunday, March 24, AM

Chair: TATSUMA, Tetsu (9 : 00 ~10 : 10)

\* 8:50-9:00: interval for laptop PC connection.(3B2-01, 3B2-02, 3B2-04, 3B2-06)

**3B2-01** Plasmon-enhanced photocurrent generation system using silver nanostructures (RIES-Hokkaido Univ.; PRESTO-JST) KAMATA, Yoshiomi; KOTAKE, Yuki; UENO, Kosei; MISAWA, Hiroaki

**3B2-02\*** Effect of Buffer Layer at Nanostructured Cathode / Organic Active Layer Interface of Bulk Heterojunction Solar Cells (Department of Material Science, Yokohama National University) YOKOKURA, Yuya; SAKOMURA, Masaru

**3B2-04\*** Plasmon-assisted electron transfer reaction from gold nanoparticle to titanium dioxide electrode probed by spectroelectrochemical analysis (RIES-Hokkaido Univ.; PRESTO-JST) SHI, Xu; UENO, Kosei; MISAWA, Hiroaki

**3B2-06\*** Plasmon-assisted water splitting with a visible light radiation using gold nanoislands loaded oxide semiconductor (RIES-Hokkaido Univ.; PRESTO-JST) ZHONG, Yuqing; SHI, Xu; UENO, Kosei; MISAWA, Hiroaki

Chair: HAYASE, Shuji (10 : 20~11 : 40)

\* 10:10-10:20: interval for laptop PC connection.(3B2-09, 3B2-11, 3B2-13, 3B2-15)

**3B2-09\*** Fabrication of 3D Micro/nano-structures by Quantum Beam irradiation onto Ionic Liquid (Osaka Univ; JST-CREST) MINAMIMOTO, Hiro; TSUDA, Tetsuya; IMANISHI, Akihito; SEKI, Shuhei; KUWABATA, Susumu

**3B2-11\*** Detection of charge dynamics at the electrolyte/TiO<sub>2</sub> interface in dye-sensitized solar cells (Chuo Univ.) KUWAHARA, Shota; TAYA, Soichiro; OMATA, Keita; OSADA, Naoya; MAEDA, Naotaka; SHEN, Qing; TOYODA, Taro; KATAYAMA, Kenji

**3B2-13\*** Direct polymerization of donor-acceptor copolymers having dithienonaphthothiadiazole unit as an electron donor and their photovoltaic properties (National Institute for Materials Science) NAKANISHI, Tatsuki; SHIRAI, Yasuhiro; HAN, Liyuan

**3B2-15\*** Enhancement of Electron Transfer Properties of Dye-sensitized Solar Cells by {001} Facet Dominating Anatase TiO<sub>2</sub> (Grad.School of Sci.and Eng., Tokyo Inst.Tech.) MAITANI, Masato; TANAKA, Keita; SUZUKI, Kohe; MOCHIZUKI, Dai; SUZUKI, Eiichi; WADA, Yuji

### Sunday, March 24, PM

Chair: AKIYAMA, Tsuyoshi (12 : 50~13 : 50)

\* 12:40-12:50: interval for laptop PC connection.(3B2-24, 3B2-25, 3B2-26, 3B2-27, 3B2-28)

**3B2-24** Enhancement of Semiconductor Nanoparticle-Sensitized Photocurrents by Plasmonic Gold Nanoparticles (IIS, the Univ. of Tokyo) ASAKURA, Akihiro; KAWAWAKI, Tokuhisa; TATSUMA, Tetsu

**3B2-25** Fabrication and Characterization of TiO<sub>2</sub> Nanotube Photoelectrodes Sensitized by Au Clusters (Kanagawa Academy of Science and Technology ; Tokyo University of Science) IMAMURA, Hirofumi; NAKATA, Kazuya; NEGISHI, Yuichi; SAKAI, Munetoshi; OCHIAI, Tsuyoshi; MURAKAMI, Taketoshi; KONDO, Takeshi; YUASA, Makoto; FUJISHIMA, Akira

**3B2-26** Fabrication and Characterization of TiO<sub>2</sub> Photoelectrodes Sensitized by Au Clusters (Tokyo Univ. of Science; KAST) SUGAWARA, Sho; NAKATA, Kazuya; NEGISHI, Yuichi; KURASHIGE, Wataru; OHYAMA, Tatsuya; SAKAI, Munetoshi; OCHIAI, Tsuyoshi; MURAKAMI, Taketoshi; KONDOU, Takeshi; YUASA, Makoto; FUJISHIMA, Akira

**3B2-27** Synthesis and Photovoltaic Properties of Triarylamine-Substituted Imidazole- and Quinoxaline-Fused Push-Pull Porphyrin (Kyoto Univ.; Kyoto Univ., WPI-iCeMS) KUROTOBI, Kei; HAYASHI, Hironobu; TOUCHY, Abeda Sultana; KINJO, Yuriko; TOUDE, Yuuki; ITO, Seigo; IMAHORI,

Hiroshi

**3B2-28\*** Photovoltaic Properties of Porphyrin-stained Titanium Dioxide Electrodes Prepared by Sequential Deposition Method (Kyoto Univ.; Kyoto Univ., WPI-iCeMS) KINJO, Yuriko; HAYASHI, Hironobu; KUROTOBI, Kei; IMAHORI, Hiroshi

Chair: KOURUMURA, Nagatoshi (14 : 00~15 : 00)

\* 13:50-14:00: interval for laptop PC connection.(3B2-31, 3B2-32, 3B2-33, 3B2-35, 3B2-36)

**3B2-31** Study on effect of additives to I-/I<sup>3+</sup>- redox electrolyte on solar cell performance of dye-sensitized solar cell (Tokyo Univ. of Science) URAYAMA, Ayako; OKUYAMA, Yu; OZAWA, Hironobu; ARAKAWA, Hironori

**3B2-32** Study on the optimization of TiO<sub>2</sub> photoelectrode toward efficiency improvement of dye-sensitized solar cell (Tokyo Univ. of Science) TAKESHITA, Motoki; SHIMIZU, Ryousuke; HUMIKURA, Hiroki; OKUYAMA, Yu; OZAWA, Hironobu; ARAKAWA, Hironori

**3B2-33\*** Substituent Effect of 4<sup>n</sup>-substituted Ru-terpyridyl complexes on photovoltaic performance (National Institute for Materials Science (NIMS)) NUMATA, Youhei; ISLAM, Ashraful; HAN, Liyuan

**3B2-35** Dye-sensitized solar cells with organic redox couples (Gifu university; DAI-ICHI KOGYO SEIYAKU CO., LTD.) FUNABIKI, Kazumasa; YOSHIKAWA, Yugo; DOI, Minami; HIBINO, Atsuhiko; SAITO, Yasuteru; KUBOTA, Yasuhiro; MATSUI, Masaki

**3B2-36** Synthesis of Novel Diazaporphyrin for Dye-sensitized Solar Cells (Kyoto Univ., WPI-iCeMS) KAWAMOTO, Kyousuke; KUROTOBI, Kei; MATANO, Yoshihiro; IMAHORI, Hiroshi

Chair: OZAWA, Hironobu (15 : 10~16 : 20)

\* 15:00-15:10: interval for laptop PC connection.(3B2-38, 3B2-39, 3B2-40, 3B2-41, 3B2-42, 3B2-43, 3B2-44)

**3B2-38** Concentrated cylindrical TCO-less dye-sensitized solar cells (Kyushu Inst. Tech.) NOGUCHI, Sho; USAGAWA, Jun; SAITO, Takahiro; FURUKAWA, Hiroaki; OGOMI, Yuhei; PANDEY, S.Shyam; SEGAWA, Koji; HAYASE, Shuzi

**3B2-39** Analysis of cocktail dye adsorption on titania using QCM (Kyushu Institute of Technology Graduate School of Life Science and System Engineering) HIROTA, Ryohei; NAKAYASHIKI, Soya; OGOMI, Yuhei; PANDEY, S. Shyam; HAYASE, Shuzi

**3B2-40** Study of diffusion of electrolytes in the TiO<sub>2</sub> nanopores and electron transport in the dye-sensitized solar cells (Graduate School of LSSE Kyushu Institute of Technology) KAWANO, Minobu; SATO, Hiromi; NAKAYASHIKI, Soya; OGOMI, Yuhei; Shyam S., Pandey; HAYASE, Shuzi

**3B2-41** Photovoltaic Performances of Dye-Sensitized Solar Cells Based on Carbazole-Pyridine D-pi-A Fluorescent Dyes (Hiroshima University) OYAMA, Yousuke; YAMAGUCHI, Naoya; KOMAGUCHI, Kenji; IMAE, Ichiro; HARIMA, Yutaka; OHSHITA, Joji

**3B2-42** Dye-Sensitized Solar Cell utilizing Vanadyl Complexes as a Redox Mediator (Dept of Appl. Chem., Waseda Univ.) HAYO, Noriko; KATO, Fumiaki; OYAIZU, Kenichi; NISHIDA, Hiroyuki

**3B2-43** Dye-sensitized Solar Cells using pi-Extended Ru-bipyridine Complexes with Oligothiophene Moieties (University of Tokyo) KONNO, Takahiro; NAKAZAKI, Jotaro; UCHIDA, Satoshi; SEGAWA, Hiroshi

**3B2-44** Perylene dicarboximide derivatives for long wavelength sensitization of DSSCs. (CST, Nihon University) TAKAHASHI, Daichi; TAKAGUCHI, Yusho; OTSUKI, Joe; ISLAM, Ashraful; HAN, Liyuan

Chair: KIMURA, Mutsumi (16 : 30~17 : 20)

\* 16:20-16:30: interval for laptop PC connection.(3B2-46, 3B2-48, 3B2-49, 3B2-50)

**3B2-46\*** Controlling the charge separation interface in organic-inorganic hybrid solar cells (Kyushu Institute of Technology) Das K, Sandeep; KUKIHARA, Kenji; YAMASHITA, Daiki; MORITA, Atsushi; KIMURA, Syouta; TSUKAMOTO, Syouta; OGOMI, Yuhei; QING, Shen; YOSHINO, Kenji; PANDEY, Shyam S.; HAYASE, Shuzi

**3B2-48** Dye-sensitized solar cell using near-infrared sensitive novel phthalocyanine dyes (Kyusyu institute of technology Graduate school of life science and systems engineering Department of biological functions and engineering Hayase laboratory) FUJIKAWA, Naotaka; SHEN, Qing; NISHIMURA, Terumi; SHIVASHIMPI, Gururaj.M.; OGOMI, Yuhei; PANDEY, Shyam.S.; YAMAGUCHI, Yoshihiro; HAYASE, Shuzi

**3B2-49** Regioisomer separation and polymer solar cell performance of dihydro-naphthyl-based [60]fullerene bisadducts (Kyoto Univ., WPI-iCeMS) MIYATA, Tetsushi; KITAURA, Shinji; KUROTOBI, Kei; UMEYAMA, Tomokazu; IMAHORI, Hiroshi

**3B2-50** Incorporation effect of plasmonic noble metal nanoparticles on P3HT/PCBM organic thin film solar cells (Department of Materials Science, The University of Shiga Prefecture) MATSUMOTO, Taisuke; NISHIDA, Takuji; OKU, Takeo; AKIYAMA, Tsuyoshi

Chair: NAOYA, Murakami (17 : 30~18 : 20)

\* 17:20-17:30: interval for laptop PC connection.(3B2-52, 3B2-53, 3B2-54, 3B2-55, 3B2-56)

**3B2-52** Organic Solar Cells Co-sensitized near-IR Absorbing Zinc Phthalocyanines (Fac. Textile Sci. Technol., Shinshu Univ.) YAMAMOTO, Satoshi;

KIMURA, Mutsumi

**3B2-53** Development of all-fullerene photovoltaic cells by the creation of spherically-symmetric p-type molecule; donor fullerene (Grad. Sch. Eng., Osaka Univ.) MIKIE, Tsubasa; SAEKI, Akinori; SEKI, Shuhei

**3B2-54** Thiophene-substituted fulleropyrrolidine derivatives as acceptor molecules in a thin film organic solar cell (Tottori University) SUGAHARA, Kiyotaka; SAKUMICHI, Shigeki; YOSHIMURA, Ken; UETANI, Yasunori; HAYASE, Shuichi; NOKAMI, Toshiki; ITOH, Toshiyuki

**3B2-55** The Effects of Film Thickness and p-Type Doping on the Performance of pn-Heterojunction Photovoltaic Devices: 2-TNATA - C<sub>60</sub> System (Fukui Univ. Technol.; Kansai Electric Power Co. Inc.; Univ. of the Ryukyus) SUEHIRO, Taku; NOMURA, Yasuhiro; KATO, Wataru; KITAGAWA, Shoichi; UMEDA, Takao; NARITA, Norihiko; MATSUOKA, Takehiko; KAGEYAMA, Hiroshi; SHIROTA, Yasuhiko

**3B2-56** A photoelectrode of organic p/n bilayer for hydrazine oxidation (Hiroaki Univ., Tokyo Institute of Technology) ABE, Toshiyuki; TAIRA, Naohiro; TANNO, Yoshinori; NAGAI, Keiji

## Room B3

### CO-LEARNING HOUSE II 801

## Inorganic Chemistry

Friday, March 22, AM

### Polyoxometallate

Chair: MIYASAKA, Hitoshi (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(1B3-01, 1B3-02, 1B3-03, 1B3-05)

**1B3-01** Synthesis and Reversible Transformation of Multinuclear Copper-Containing Silicotungstates (School of Engineering, The Univ. of Tokyo) SUZUKI, Kosuke; SHINOE, Masahiro; MIZUNO, Noritaka

**1B3-02** Synthesis and Structural Characterization of an Octahedrally Shaped [Ag<sub>6</sub>]<sup>4+</sup> Cluster Encapsulated within Silicotungstate Ligands (Univ. of Tokyo) KIKUKAWA, Yuji; KURODA, Yoshiyuki; SUZUKI, Kosuke; HIBINO, Mitsuhiro; YAMAGUCHI, Kazuya; MIZUNO, Noritaka

**1B3-03\*** Reversible Protonation and Deprotonation Behaviors of Divacant  $\gamma$ -Keggin Polyoxotungstates and the Catalysis (School of Engineering, The University of Tokyo) SUGAHARA, Kosei; HIRANO, Tomohisa; KIMURA, Toshihiro; KAMATA, Keigo; YAMAGUCHI, Kazuya; MIZUNO, Noritaka

**1B3-05\*** Exploring functionality of molecular composites between cationic electron donor and polyoxometalate anions (Fac. Sci., Yamaguchi Univ.) TSUNASHIMA, Ryo; MATSUMOTO, Takumi; ISHIGURO, Katsuya; KATO, Chisato; NISHIHARA, Sadafumi; INOUE, Katsuya; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki

Chair: MATSUNAGA, Satoshi (10 : 10~10 : 50)

\* 10:00-10:10: interval for laptop PC connection.(1B3-08, 1B3-09, 1B3-10, 1B3-11)

**1B3-08** Crystal Structure and Physical Properties of A Preyssler type POM Including Lanthanide Ion, K<sub>12</sub>[TbP<sub>5</sub>W<sub>3</sub>O<sub>11</sub>] (Graduate school of science, Hiroshima University) KATO, Chisato; NISHIHARA, Sadafumi; TSUNASHIMA, Ryo; TATEWAKI, Yoko; INOUE, Katsuya

**1B3-09** Electrochemical study on Keggin type polyoxotungstate ions (Graduate School of Sciences, Kobe University) EDA, Kazuo; OSAKAI, Toshiyuki

**1B3-10** Gel electrophoretic analysis of the molybdenum-blue reactions for understanding template effect on cluster formations (Yamaguchi Univ.) NAKAMURA, Ippei; TSUNASHIMA, Ryo; ISHIGURO, Katsuya

**1B3-11** Guest-Inclusion Reactions in a Bowl-Type Dodecavanadate and their Rate Law (Kanazawa Univ.) KUWAJIMA, Sho; IKINOBU, Yuka; KOSAKA, Wataru; HAYASHI, Yoshito; MIYASAKA, Hitoshi

Chair: TSUNASHIMA, Ryo (11 : 00~11 : 30)

\* 10:50-11:00: interval for laptop PC connection.(1B3-13, 1B3-14, 1B3-15)

**1B3-13** Synthesis of Novel Intercluster Compound by Reaction of the Gold(I)/Carboxylate/P(m-FPh)<sub>3</sub> Complex with Keggin-type Polyoxometalate (Kanagawa Univ. Fac. of Sci.) YOSHIDA, Takuya; NOMIYA, Kenji

**1B3-14** Synthesis, molecular structures of monomeric and dimeric forms of mono-titanium(IV)-substituted Keggin polyoxometalate and pH-dependent interconversion of monomer-dimer in solution (Kanagawa Univ. Faculty of Science) MATSUKI, Yuhsuke; MATSUNAGA, Satoshi; SAKAI, Yoshitaka; MOURI, Yuki; NOMIYA, Kenji

**1B3-15** Syntheses and conductivity of decavanadate-surfactant hybrid layered crystal (School of Science, Tokai Univ., Rigaku Corporation, and Chemical Resources Lab., Tokyo Inst. Tech.) TAIRA, Minako; SATO, Hiroyasu; NARUKE, Haruo; ITO, Takeru



Friday, March 22, PM

Porous compounds, carbon

Chair: ITO, Takeru (12 : 40~13 : 30)

- \* 12:30-12:40: interval for laptop PC connection.(1B3-23, 1B3-24, 1B3-25, 1B3-26, 1B3-27)
- 1B3-23** Adsorption Properties of Two-Dimensional Layered Copper Hydroxides with Fluorinated Anions (Graduate School of Environmental Science, Hokkaido Univ.) MUTO, Yuichi; NORO, Shin-ichiro; KUBO, Kazuya; NAKAMURA, Takayoshi
- 1B3-24** Synthesis of Fibrous Microporous Silica Using Collagen Fibril as a Template (Technology Research Institute of Osaka Prefecture) DOHSHI, Satoru
- 1B3-25** Silica coating of carbon black (Univ. of Waseda; Graduate School of Creative Science and Engineering) YOSHIDA, Takaaki; OGAWA, Makoto
- 1B3-26** Preparation of graphite-like layered material composed of boron and carbon (Osaka Electro-Communication University; Kawaguchi Laboratory.) KASEDA, Takayuki; KAWAGUCHI, Masayuki
- 1B3-27** Density functional theory calculation study on structures of graphene oxides trapping carbon dioxide (Kyoto Institute of Technology) YAMASAKI, Ayumi; YUMURA, Takashi; KOBAYASHI, Hisayoshi

Radio chemistry, f-block elements

Chair: TSUKADA, Kazuaki (13 : 40~14 : 10)

- \* 13:30-13:40: interval for laptop PC connection.(1B3-29, 1B3-30, 1B3-31)
- 1B3-29** In-beam Mossbauer spectra of <sup>57</sup>Mn implanted into solid Ar (Tokyo Univ. Sci.; Univ. Electro-Comm.; ICU; Osaka Univ.; KEK; Nihon Univ.; Kanazawa Univ.; NIRS) YAMADA, Yasuhiro; KOBAYASHI, Yoshio; KUBO, Kenya; MIHARA, Mototsugu; NAGATOMO, Takashi; JUN, Miyazaki; SATO, Wataru; SATO, Shinji; KITAGAWA, Atsushi
- 1B3-30**  $\mu$ SR study of mixed-valence trinuclear iron pentafluorobenzoate complex (Daido Univ.) SAKAI, Yoichi; KODA, Akihiro; MIYAKE, Yasuhiro; KUBO, Kenya; NAGATOMO, Takashi; OGISO, Ryo; ONAKA, Satoru; TAKAYAMA, Tsutomu; NAKAMOTO, Tadashi; TAKAHASHI, Masashi
- 1B3-31** Development of the automatic and rapid solid-liquid extraction by batch method for on-line extraction of Rf (Gra. Sch. of Sci., Osaka Univ.) KINO, Aiko; TOYOMURA, Keigo; KOMORI, Yukiko; YOKOKITA, Takuya; NAKAMURA, Kohei; KASAMATSU, Yoshitaka; TAKAHASHI, Naruto; HABA, Hiromitsu; KANAYA, Junpei; HUANG, Minghui ; KUDOU, Yuki ; YOSHIMURA, Takashi; SHINOHARA, Atsushi

Chair: KASAMATSU, Yoshitaka (14 : 20~15 : 00)

- \* 14:10-14:20: interval for laptop PC connection.(1B3-33, 1B3-34, 1B3-35, 1B3-36)
- 1B3-33** Development of a new continuous dissolution apparatus using a hydrophobic membrane filter for superheavy element chemistry (Japan Atomic Energy Agency) OOE, Kazuhiro; TSUKADA, Kazuaki; ASAI, Masato; SATO, Tetsuya; TOYOSHIMA, Atsushi; MIYASHITA, Sunao; NAGAME, Yuichiro; SCHAEDEL, Matthias; KANEYA, Yusuke; LERUM, Hans Vigeland; OMTVEDT, Jon Petter; KRATZ, Jens Volker; HABA, Hiromitsu; WADA, Ayaka; KITAYAMA, Yuta
- 1B3-34** Development of a surface ionization method for determination of ionization potential of heavy actinides (Japan Atomic Energy Agency) KANEYA, Yusuke; SATO, Tetsuya; SATO, Nozomi; ASAI, Masato; TSUKADA, Kazuaki; TOYOSHIMA, Atsushi; OOE, Kazuhiro; MIYASHITA, Sunao; NAGAME, Yuichiro; SCHAEDEL, Matthias; OSA, Akihiko; ICHIKAWA, Shinichi; STORA, Thierry; KRATZ, Jens Volker
- 1B3-35** Measurement of the first ionization potential of Lr by surface ionization method (JAEA) SATO, Tetsuya; KANEYA, Yusuke; SATO, Nozomi; ASAI, Masato; TSUKADA, Kazuaki; TOYOSHIMA, Atsushi; OOE, Kazuhiro; MIYASHITA, Sunao; NAGAME, Yuichiro; SCHAEDEL, Matthias; ICHIKAWA, Shinichi; STORA, Thierry; KRATZ, Jens Volker
- 1B3-36** Extraction behavior of hexavalent Mo and W for Sg experiment (Japan Atomic Energy Agency) MIYASHITA, Sunao; OOE, Kazuhiro; TOYOSHIMA, Atsushi; SATO, Tetsuya; ASAI, Masato; TSUKADA, Kazuaki; NAGAME, Yuichiro; SCHAEDEL, Matthias; KANEYA, Yusuke; OMTVEDT, Jon Petter; KRATZ, Jens Volker; HABA, Hiromitsu; WADA, Ayaka; KITAYAMA, Yuta

Solid State Chemistry

Chair: SAITO, Takashi (15 : 10~16 : 10)

- \* 15:00-15:10: interval for laptop PC connection.(1B3-38, 1B3-40, 1B3-42)
- 1B3-38\*** New superconductors based on anion control (Kyoto University) YAJIMA, Takeshi; NAKANO, Kousuke; TAKEIRI, Yoichi; KAGEYAMA, Hiroshi
- 1B3-40\*** New Mixed Anion Compounds Based on Hydride Chemistry (Kyoto University) KOBAYASHI, Yoichi; MASUDA, Naoya; MITSUOKA, Shingo; YAJIMA, Takeshi; SAKAGUCHI, Tatsunori; NODA, Yasuto; Jung eun, Kim; TSUJI, Naruki; FUJIWARA, Akihiko; TAKEGOSHI, Kiyonori; GREEN, Mark; KAGEYAMA, Hiroshi

- 1B3-42\*** Synthesis, Structures and Physical Properties of Square Planar Iron Oxides (Grad. Sch. Eng., Kyoto Univ.) YAMAMOTO, Takafumi; KOBAYASHI, Yoichi; KAGEYAMA, Hiroshi

Chair: ITOH, Mitsuru (16 : 20~17 : 20)

- \* 16:10-16:20: interval for laptop PC connection.(1B3-45, 1B3-46, 1B3-48, 1B3-49, 1B3-50)
- 1B3-45** Pressure-induced amorphization in ion-exchangeable layered materials (Kyoto University) ASAI, Kei; YAMAMOTO, Takafumi; HOSOKAWA, Saburo; YAMAZOE, Seiji; KOBAYASHI, Yoichi; KAGEYAMA, Hiroshi
- 1B3-46\*** Synthesis and Physical Properties of Cubic Perovskite-type Ba-FeO<sub>3</sub> (Center for the Promotion of Interdisciplinary Education and Research, Kyoto University) HAYASHI, Naoaki; YAMAMOTO, Takafumi; KAGEYAMA, Hiroshi; TAKANO, Mikio
- 1B3-48** Synthesis of oxygen-deficient perovskite Ca<sub>2</sub>FeGaO<sub>x</sub> containing an unusually high valent cation (ICR, Kyoto Univ.) YAMADA, Marina; SAITO, Takashi; ICHIKAWA, Noriya; SHIMAKAWA, Yuichi
- 1B3-49** Synthesis of a new layered double perovskite Ca<sub>2</sub>FeMnO<sub>6</sub> with high-oxidation-state cations (ICR, Kyoto Univ.) HOSAKA, Yoshiteru; ICHIKAWA, Noriya; SAITO, Takashi; SHIMAKAWA, Yuichi
- 1B3-50** Stabilization condition for Ce<sup>3+</sup> in oxide phosphor (Fac. Eng., Niigata Univ.) KIKUCHI, Takumi; UEMATSU, Kazuyoshi; ISHIGAKI, Tadashi; TODA, Kenji; SATO, Mineo

Chair: KAGEYAMA, Hiroshi (17 : 30~18 : 20)

- \* 17:20-17:30: interval for laptop PC connection.(1B3-52, 1B3-54, 1B3-55, 1B3-56)
- 1B3-52\*** Fabrication of metastable Fe-Al complex oxide systems and their magnetic and ferroelectric properties (MSL, Tokyo Tech) HAMASAKI, Yosuke; SHIMIZU, Takao; TANIGUCHI, Hiroki; TANIYAMA, Tomoyasu; ITOH, Mitsuru
- 1B3-54** Structural Phase Transition of Li<sub>2</sub>MgGeO<sub>4</sub> (Yamaguchi Univ.; Univ. Tokyo) NAKAYAMA, Noriaki; TAKAHASHI, Kousuke; FUJIWARA, Keiko; NAKATSUKA, Akihiko; ISOBE, Masahiko; UEDA, Yutaka
- 1B3-55** Crystal Structure of Strontium exchanged GTS-type Titanosilicates (Grad. Sch. Sci. Eng., Yamaguchi Univ.) FUJIWARA, Keiko; KISHIMORI, Chika; TITORENKOVA, Rositsa; NAKATSUKA, Akihiko; NAKAYAMA, Noriaki
- 1B3-56** Synthesis of the iron phosphates (ferrous hureaulite) solid solution partly substituted Co(II) or Ni(II) for Fe(II) ions (Ichinoseki National College of Technology; IMR, Tohoku Univ.) YOSHIDA, Kazuki; OHSHIMA, Eriko; SUGIYAMA, Kazumasa

Saturday, March 23, PM

Synthesis of inorganic compounds

Chair: WADA, Yuji (12 : 40~13 : 40)

- \* 12:30-12:40: interval for laptop PC connection.(2B3-23, 2B3-25, 2B3-26, 2B3-27, 2B3-28)
- 2B3-23\*** Synthesis of nickel sulfide by hot soap technique and its reaction mechanism (Osaka Prefecture University) ASO, Keigo; HAYASHI, Akitoshi; TATSUMISAGO, Masahiro
- 2B3-25** Preparation of nanowires of blue molybdenum bronzes via solid phase transformation under hydrothermal conditions (Graduate School of Sciences, Kobe University) NISHIDA, Takamasa; EDA, Kazuo
- 2B3-26** Study of structural conversion reaction to high-pressure phase of cobalt molybdate under hydrothermal conditions (Graduate School of Sciences, Kobe University) SHIOYA, Nobutaka; EDA, Kazuo
- 2B3-27** Synthesis of orthosilicates via a soft chemical method (Graduate School of Sciences, Kobe University) TAKAZAKI, Aki; EDA, Kazuo
- 2B3-28** Preparation and characterization of Tb<sup>3+</sup>-doped fluorescent spherical Ta<sub>2</sub>O<sub>5</sub> particles (Ritsumeikan Univ.) FUJIMURA, Mai; SANADA, Tomoe; WADA, Noriyuki; KOJIMA, Kazuo

Chair: SUGIMOTO, Wataru (13 : 50~14 : 50)

- \* 13:40-13:50: interval for laptop PC connection.(2B3-30, 2B3-31, 2B3-32, 2B3-33, 2B3-34)
- 2B3-30** Preparation and optical properties of Mn<sup>2+</sup>-doped Li<sub>2</sub>ZnGeO<sub>4</sub> thin films synthesized by sol-gel process (Ritsumeikan University) IJIMA, Miki; SANADA, Tomoe; KOJIMA, Kazuo
- 2B3-31** Synthesis of divalent cation substituted solid solutions of vaterite type calcium carbonate (Waseda University of Creative Science and Engineering; Yamazaki Laboratory) NAKAYAMA, Yusuke; YAMAZAKI, Atsushi; SUZUKI, Shigeru
- 2B3-32** Synthesis of spinel CoAl<sub>2</sub>O<sub>4</sub> using a Co-Al hydroxide precursor (NIMS) TAGUCHI, Minoru; NAKANE, Takayuki; SAKKA, Yoshio; MATSUSHITA, Akiyuki; FUNAZUKURI, Toshitaka; NAKA, Takashi
- 2B3-33** Visible-light-induced Electron transfer at dye-intercalated alternate layered nanostructures of TiO<sub>2</sub> and WO<sub>3</sub> (Graduate School of Engineering, Tokyo Institute of Technology) KISHIMOTO, Fuminao; KUMAGAI, Kozue; MOCHIZUKI, Dai; MAITANI, Masato; SUZUKI, Eiichi; WADA, Yuji
- 2B3-34\*** Heterolayered Structures of Metal Oxides by a Click Reaction (Graduate School of Science and Engineering, Tokyo Institute of

Technology) MOCHIZUKI, Dai; KUMAGAI, Kozue; KISHIMOTO, Fuminao; MAITANI, Masato; SUZUKI, Eiichi; WADA, Yuji

### Layered Compounds

Chair: EDA, Kazuo (15 : 00~15 : 40)

- \* 14:50-15:00: interval for laptop PC connection.(2B3-37, 2B3-38, 2B3-39, 2B3-40)
- 2B3-37** Effect of pH on the preparation of alkylammonium-H<sub>2</sub>W<sub>2</sub>O<sub>7</sub> intercalation compound in aqueous media (Shinshu Univ.; Waseda Univ.) OHUCHI, Masato; SUGAHARA, Yoshiyuki; FUKUDA, Katsutoshi; SUGIMOTO, Wataru
- 2B3-38** Thermally-induced restack/exfoliation transition of exfoliated nanosheet sol (MANA, NIMS) FUKUDA, Katsutoshi; SASAKI, Takayoshi; SUGIMOTO, Wataru
- 2B3-39** Soft-Chemical Exfoliation of RbSrNb<sub>2</sub>O<sub>6</sub>F into Oxyfluoride Nanosheet (International Center for Materials Nanoarchitectonics, NIMS) OZAWA, Tadashi C.; FUKUDA, Katsutoshi; EBINA, Yasuo; SASAKI, Takayoshi
- 2B3-40** The adsorption behavior of porphyrin dyes on the clay surfaces that have different charge distribution (Tokyo Metropolitan Univ.) ANDO, Yuka; FUJIMURA, Takuya; SHIMADA, Tetsuya; TAKAGI, Shinsuke

Chair: KAMESHIMA, Yoshikazu (15 : 50~16 : 40)

- \* 15:40-15:50: interval for laptop PC connection.(2B3-42, 2B3-43, 2B3-44, 2B3-46)
- 2B3-42** Adsorption mechanisms of substituted phenol on organically modified Layered Double Hydroxide (Grad. Sch. Environmental Studies, Tohoku Univ.) UCHIYAMA, Tomomi; KAMEDA, Tomohito; YOSHIOKA, Toshiaki
- 2B3-43** Removal of selenium by Fe<sup>2+</sup> doped Mg-Al layered double hydroxides (Grad. Sch. Environmental Studies, Tohoku Univ.) KONDO, Eisuke; KAMEDA, Tomohito; YOSHIOKA, Toshiaki
- 2B3-44\*** Intracellular dynamic state of the layered double hydroxide nanocomposite (Tohoku Univ.; Iwate Univ.) TANAKA, Miyuki; AISAWA, Sumio; DONG, Qiang; YIN, Shu; HIRAHARA, Hidetoshi; NARITA, Eiichi; SATO, Tsugio
- 2B3-46** Water splitting reaction with Zn-Cr layered double hydroxide as a photocatalyst (Osaka prefecture university) HIRATA, Naoya; TADANAGA, Kiyoharu; TATSUMISAGO, Masahiro

Chair: YOSHIOKA, Toshiaki (16 : 50~17 : 30)

- \* 16:40-16:50: interval for laptop PC connection.(2B3-48, 2B3-49, 2B3-50, 2B3-51)
- 2B3-48** Preparation of various dicarboxylate/layered double hydroxide composites by anion-exchange reaction in non-aqueous solvent (Univ. of Okayama) MAKINO, Satoshi; KAMESHIMA, Yoshikazu; NISHIMOTO, Shunsuke; MIYAKE, Michihiro
- 2B3-49** Solvent Effect on Anion Exchange of Carbonate Layered Double Hydroxide using monocarboxylic acid nonaqueous solution (Univ. of Okayama) TANAKA, Toshiyuki; KAMESHIMA, Yoshikazu; NISHIMOTO, Shunsuke; MIYAKE, Michihiro
- 2B3-50** Interaction of colloidal delaminated layered double hydroxides with colloidal silica nanoparticles (Faculty of Science and Engineering, Waseda Univ.) TERASAWA, Taichi; FUKUMOTO, Kohta; OSADA, Shimon; CHOI, Kwang-min; KURODA, Yoshiyuki; KURODA, Kazuyuki
- 2B3-51** Underlying aspects in topochemical formation of transition-metal layered double hydroxides (International Center for Materials Nanoarchitectonics, National Institute for Materials Science) MA, Renzhi; LIANG, Jianbo; LIU, Xiaohu; SASAKI, Takayoshi

### Sunday, March 24, AM

#### Layered Compounds

Chair: MORIMOTO, Kazuya (9 : 10 ~10 : 00)

- \* 9:00-9:10: interval for laptop PC connection.(3B3-02, 3B3-03, 3B3-04, 3B3-05, 3B3-06)
- 3B3-02** Synthesis of lepidocrocite-type layered potassium lithium titanate and adsorption of Ru470 (tris(2,2'-bipyridyl)-4,4'-dicarboxylic acid) ruthenium(II) (Univ. of Waseda; Graduate School of Creative Science and Engineering) MORITA, Masashi; SATO, Soh; OGAWA, Makoto
- 3B3-03** Preparation of Layered Zirconium Alkylphosphonates by Liquid-Phase Deposition Process (Waseda Univ.) KOHARA, Gaku; TAKAKURA, Yoshie; TAHARA, Seichi; SUGAHARA, Yoshiyuki
- 3B3-04** Intercalation of n-CnH<sub>2</sub>n+1NH<sub>2</sub> (n = 4, 8, 12 and 18) or H<sub>2</sub>NcH<sub>2</sub>n+1NH<sub>2</sub> (n = 4, 8, and 12) into a novel sol-gel-derived lamellar-type polysilsesquioxane containing surface carboxyl groups (Waseda Univ.) OHSHITA, Hironori; ITO, Machi; AHMAD, Mehdi; BOURY, Bruno; SUGAHARA, Yoshiyuki
- 3B3-05** Conversion of protonated layered octosilicate to RUB-24 by interlayer condensation in the presence of N-methylformamide (Faculty of Science and Engineering, Waseda Univ.; Kagami Inst., Waseda Univ.) OSADA, Shimon; HOSAKA, Nami; TERASAWA, Taichi; ASAKURA, Yusuke; KURODA, Kazuyuki

- 3B3-06** Conversion of  $\beta$ -Helix Layered Silicate to AST-Type Zeolite Through the Control of Interlayer Environment (Department of Applied Chemistry, Faculty of Science and Engineering, Waseda Univ.; Kagami Memorial Research Institute for Materials Science and Technology, Waseda Univ.) TAKAYAMA, Ryosuke; ASAKURA, Yusuke; SHIBUE, Toshimichi; KURODA, Kazuyuki

Chair: OGAWA, Makoto (10 : 10~11 : 00)

- \* 10:00-10:10: interval for laptop PC connection.(3B3-08, 3B3-10, 3B3-11, 3B3-12)
- 3B3-08\*** Preparation and characterization of Si<sub>6</sub>H<sub>6</sub>/nLi composites by mechanical milling method (TOYOTA Central R&D Labs., Inc.) OHASHI, Masataka; NAKANO, Hideyuki; YOGI, Chihiro; OHTA, Toshiaki
- 3B3-10** Preparation of pillared magadites with flexible pores and the intercalation behaviors of organic molecules into them (Univ. of Hyogo) YAMAUCHI, Yusuke; MATSUO, Yoshiaki
- 3B3-11** Desorption of Cesium Ions Intercalated in Phyllosilicate (Ehime Univ.; Univ. of Tokyo; NIMS; Toho Univ.) MORIMOTO, Kazuya; KOGURE, Toshihiro; TAMURA, Kenji; YAMAGISHI, Akihiko; SATO, Hisako
- 3B3-12** Adsorption and desorption behavior of Cs ion on spongy formed sodium taeniolite. (Showa Pharm. Univ.) SUZUKI, Noriko; OCHI, Kotaro; OZAWA, Shunsuke; CHIKUMA, Toshiyuki

#### Structure and properties of inorganic compounds

Chair: SUGAHARA, Yoshiyuki (11 : 10~12 : 00)

- \* 11:00-11:10: interval for laptop PC connection.(3B3-14, 3B3-15, 3B3-16, 3B3-17)
- 3B3-14** Synthesis and property of a metal-organic framework including basic guests in its pores (WPI-I2CNER, Kyushu Univ.; JST-CREST; RIKEN/Spring-8) SADAKEYO, Masaaki; YAMAUCHI, Miho; KASAI, Hidetaka; KATO, Ken-ichi; TAKATA, Masaki
- 3B3-15** Generating of photo induced charge-transfer complex based on lanthanide supramolecular structure. (Kanagawa Univ.) HINO, Ryotaro; ORISAKU, Keiko; IWAKURA, Izumi; KOIDE, Yoshihiro
- 3B3-16** Synthesis and Crystal Structure of Quaternary Alkaline Earth Silicon Nitrides (IMRAM Tohoku Univ.) YAMANE, Hisanori; MORITO, Haruhiko
- 3B3-17\*** Metal-insulator transition in hollandite-type chromium oxide K<sub>2</sub>Cr<sub>3</sub>O<sub>16</sub> (The Univ. of Tokyo) ISOBE, Masahiko; NAKAO, Akiko; NAKAO, Hironori; UEDA, Yutaka

### Asian International Symposium - Inorganic Chemistry / Coordination Chemistry, Organo-metallic Chemistry - Sunday, March 24, PM

Chair: Hiroki Oshio and Masako Kato (13 : 30~14 : 40)

- 3B3-28\*** Invited Lecture Photo-induced structural change of transition metal complexes observed by ultrafast spectroscopy (Toyama Univ.) Munetaka Iwamura (13:30~13:50)
- 3B3-30\*** Invited Lecture Combination of metal-complex luminophores and linkage isomerization toward new intelligent chromic materials (Hokkaido Univ.) Atsushi Kobayashi (13:50~14:10)
- 3B3-32\*** Keynote Lecture Synthesis, photophysics and photocatalytic properties of new classes of readily tunable rhenium(I) and rhodium(I) complexes (City Univ. of Hong Kong, Hong Kong) Vincent Chi-Chiu Ko (14:10~14:40)

Chair: Shinobu Itoh and Takahiko Kojima (14 : 40~15 : 50)

- 3B3-35\*** Invited Lecture Development of <sup>19</sup>F MRI probes based on coordination chemistry and nanomaterials (Osaka Univ.) Shin Mizukami (14:40~15:00)
- 3B3-37\*** Invited Lecture DNA-directed metal complex formations and analytical applications (Kumamoto Univ.) Toshihiro Ihara; Hiroyuki Ohura; Chisato Shirahama; Tomohiro Furuzono; Yusuke Kitamura (15:00~15:20)
- 3B3-40\*** Invited Lecture Studies on the self-assembly of functional heterometallic clusters (Tsukuba Univ.) Graham Neil Newton; Hiroki Oshio (15:30~15:50)

Chair: Kohtaro Osakada (15 : 50~17 : 00)

- 3B3-42\*** Keynote Lecture Controlled syntheses and optical properties of plasmonic nanogap structures (Seoul National Univ., Korea) Jwa-Min Nam (15:50~16:20)
- 3B3-45\*** Invited Lecture Water oxidation catalyzed by mononuclear and multinuclear metal complexes (Institute for Molecular Science) Shigeyuki Masaoka (16:20~16:40)
- 3B3-47\*** Invited Lecture Photocatalytic water splitting using surface-modified oxynitride powder (Tokyo Institute of Technology/ PRESTO, JST) Kazuhiko Maeda (16:40~17:00)

## Coordination Chemistry, Organometallic Chemistry

Monday, March 25, AM

Si, Ge, Su, Pb

Chair: ISHIDA, Shintaro (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(4B3-01, 4B3-02, 4B3-03, 4B3-04, 4B3-05, 4B3-06)

**4B3-01<sup>#</sup>** Synthesis and Structure of Lithiostannane Bearing a Bulky Ligand and its Unusual Reactivity (Department of Chemistry, Graduate School of Science and Engineering, Saitama University) POP, Lucian Cristian; SAITO, Masaichi

**4B3-02** Syntheses and Properties of Stannabenzenes Stabilized by Steric Protection Groups (Kyoto Univ.) KANESATO, Shuhei; MIZUHATA, Yoshiyuki; NODA, Naoya; TOKITOH, Norihiro

**4B3-03** Synthesis and Reactions of Germadichlorophosphine Bearing a Bulky Aryl Group (Department of Chemistry, Graduate School of Science and Engineering, Saitama University) KUROKAWA, Nobuaki; SAITO, Masaichi

**4B3-04** Synthesis and Reactions of Dichlorosilylphosphine Bearing a Bulky Aryl Group (Department of Chemistry, Graduate School of Science and Engineering, Saitama University) EBATA, Hiroaki; SAITO, Masaichi

**4B3-05** [2+2] Cycloaddition Reactions of The Schrock-type Titanium Silylidene (Univ. of Tsukuba) Horiguchi, Satoru; LEE, Vladimir Ya.; SEKIGUCHI, Akira

**4B3-06** Synthetic Study on a Novel [2]Ferrocenophane Bridged by a Disilene Unit (Institute for Chemical Research, Kyoto University) MIYAMOTO, Hisashi; SASAMORI, Takahiro; TOKITOH, Norihiro

Chair: SAITO, Masaichi (10 : 10 ~ 11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(4B3-08, 4B3-09, 4B3-10, 4B3-12, 4B3-13)

**4B3-08** Synthesis and Reactions of Silicon-Functionalized Dibenzosilaboranes (Graduate School of Science, Hiroshima Univ.) HIROFUJI, Tatsuya; KAWACHI, Atsushi; YAMAMOTO, Yohsuke

**4B3-09** Syntheses and Properties of Boryl Substituted Tetrahedranes (Univ. of Tsukuba) INAGAKI, Yusuke; NAKAMOTO, Masaaki; SEKIGUCHI, Akira

**4B3-10\*** Thermolysis of Base-Stabilized Silacycloprop-1-ylidene (Universite de Toulouse, LHFA) NAKATA, Norio; RODRIGUEZ, Ricardo; TROADEC, Thibault; KATO, Tsuyoshi; SAFFON-MERCERON, Nathalie; BACEIREDO, Antoine

**4B3-12** Preparation and Reaction of the Dibromosilane Having a Very Bulky Rind Group (Kinki Univ.) MORIMOTO, Tatsuto; MATSUO, Tsukasa; LI, Liangchun; HACHIYA, Makoto; HASHIZUME, Daisuke; TAMAO, Kohei

**4B3-13** Electrochemical characteristics of radicals of heavy group 14 elements and their application (Univ. of Tsukuba) MARUYAMA, Hitoshi; NAKANO, Hideyuki; NAKAMOTO, Masaaki; SEKIGUCHI, Akira

Chair: TOKITOH, Norihiro (11 : 20 ~ 12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(4B3-15, 4B3-16, 4B3-17, 4B3-19, 4B3-20)

**4B3-15** Synthetic Studies on Stable Hexasilabenzene Protected by Rind Groups (Kinki Univ.) HAYAKAWA, Naoki; MATSUO, Tsukasa; SUZUKI, Katsunori; HASHIZUME, Daisuke; TAMAO, Kohei

**4B3-16** Synthesis, Photophysical Properties, and Reactions of 9,9-Dialkoxy-9-silafluorenes (Graduate School of Engineering, Gunma Univ.) HIROSE, Satoshi; KANNO, Ken-ichiro; KYUSHIN, Soichiro

**4B3-17\*** Synthesis and Properties of Cyclopentasilane-Fused Hexasilabenzvalene (Graduate School of Engineering, Gunma University; Faculty of Engineering, Gunma University) TSURUSAKI, Akihiro; IIZUKA, Chisato; OTSUKA, Kyohei; KYUSHIN, Soichiro

**4B3-19** Synthesis of phenyltetrahydryllithium: a novel type of tetrahedrane having three different substituents. (Univ. of Tsukuba) KOBAYASHI, Yuzuru; NAKAMOTO, Masaaki; SEKIGUCHI, Akira

**4B3-20** Reactivity of heteroatom-substituted tetrahedrane with nucleophiles (Univ. of Tsukuba) IKEDA, Yuri; NAKAMOTO, Masaaki; SEKIGUCHI, Akira

Monday, March 25, PM

Si, Ge, Su, Pb

Chair: MATSUO, Tsukasa (13 : 30 ~ 14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(4B3-28, 4B3-29, 4B3-30, 4B3-31, 4B3-32, 4B3-33)

**4B3-28** A 1,3-Disilabicyclo[1.1.0]butane Dimer Connected at the Bridgehead Positions: Synthesis and Properties (Graduate School of Science, Tohoku University) MOTOMATSU, Daiki; INOMATA, Koya; ISHIDA, Shintaro; IWAMOTO, Takeaki

**4B3-29** Reactions of an Isolable Dialkylsilylene with Pyridine Derivatives: Synthesis of New Highly-conjugated Systems by Cycloaddition of Silylene

(Graduate School of Science, Tohoku University) UCHIDA, Kenya; ISHIDA, Shintaro; IWAMOTO, Takeaki

**4B3-30** Synthesis, properties, and reactions of quinone fused siloles (Shizuoka University) WATANABE, Takahiro; SAKAMOTO, Kenkichi

**4B3-31** Synthesis, Structure and Properties of 1,3-disilacyclobutadiene and its THF-complex (Univ. of Tsukuba) KITAGAWA, Taichi; ENDO, Masahisa; NAKAMOTO, Masaaki; SEKIGUCHI, Akira

**4B3-32** Synthetic Study of Dialkylsilylanone (Graduate School of Science, Tohoku University) ABE, Takashi; SATO, Katsuhiko; ISHIDA, Shintaro; KIRA, Mitsuo; IWAMOTO, Takeaki

**4B3-33** Synthesis and Structures of a New Dialkylsilylidyne and Its Palladium Complex (Graduate School of Science, Tohoku University) ISHIDA, Shintaro; SUGAWARA, Ryutarou; MISAWA, Yoshifumi; IWAMOTO, Takeaki

Chair: SAKAMOTO, Kenkichi (14 : 40 ~ 15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(4B3-35, 4B3-36, 4B3-37, 4B3-38, 4B3-39, 4B3-40)

**4B3-35** Reactivity of disilyne with cyclic organosulfur compounds (Univ. of Tsukuba) TAKEUCHI, Toshihiro; ICHINOHE, Masaaki; SEKIGUCHI, Akira

**4B3-36** Generation and Reactivity of 1,2-Dilithiodisilene (Univ. of Tsukuba) HAGA, Kenshiro; ICHINOHE, Masaaki; SEKIGUCHI, Akira

**4B3-37** Expansion of Silicon Cluster Framework by Silylene Elimination (Graduate School of Science, Tohoku University) AKASAKA, Naohiko; ISHIDA, Shintaro; IWAMOTO, Takeaki

**4B3-38** Synthesis and Structure of a Stable Tetraorganosilicate Having Disilatriptycene Skeleton (Graduate School of Science, Tohoku University) TAKIGUCHI, Minoru; ISHIDA, Shintaro; IWAMOTO, Takeaki

**4B3-39** Synthesis, Structure, and Properties of 1,1'-Bi(2,2,4,4-tetra-*tert*-butyl-3,3-dimethylcyclohexyl)silylene (Graduate School of Engineering, Gunma University; Graduate School of Science, Tohoku University) IMAI, Haruna; ANZAWA, Hideki; ISHIDA, Shintaro; IWAMOTO, Takeaki; KYUSHIN, Soichiro

**4B3-40** Synthesis, Structure and Properties of Cyclic C-Hydroxy and C-Aminosilenes (Univ. of Tsukuba) OHMORI, Yu; ICHINOHE, Masaaki; SEKIGUCHI, Akira

Chair: MIZUHATA, Yoshiyuki (15 : 50 ~ 16 : 50)

\* 15:40-15:50: interval for laptop PC connection.(4B3-42, 4B3-43, 4B3-44, 4B3-45, 4B3-46, 4B3-47)

**4B3-42** Skeletal Rearrangement of an Octasilacubyl Anion into an Octasilacubyl Anion (Graduate School of Engineering, Gunma University) AKIBA, Yuki; TSURUSAKI, Akihiro; KYUSHIN, Soichiro

**4B3-43** Reactions of Octasilacubyl Anion with Electrophiles (Graduate School of Engineering, Gunma University) AKIBA, Yuki; TSURUSAKI, Akihiro; KYUSHIN, Soichiro

**4B3-44** Synthesis and Reactions of Bisiletane (Shizuoka University) YAMADA, Kazuma; SAKAMOTO, Kenkichi

**4B3-45** Synthesis and properties of new bicyclo[1.1.1]pentasilanes bearing aryl groups at the bridgehead position (Graduate School of Science, Tohoku University) TSUSHIMA, Daisuke; ISHIDA, Shintaro; IWAMOTO, Takeaki

**4B3-46** Synthesis and Reactions of Cyclic Oligo(dimethylene-silylene) (Shizuoka University) MAEKAWA, Akihiko; SAKAMOTO, Kenkichi

**4B3-47** Synthesis, Structure, and Electronic Properties of Benzohexasilabicyclo[2.2.2]octene (Graduate School of Engineering, Gunma University) TOMA, Yuki; KURIBARA, Takayoshi; IIZUKA, Takuya; NAGASHIMA, Hideo; KYUSHIN, Soichiro

# Room B4

## CO-LEARNING HOUSE II 802

## Coordination Chemistry, Organometallic Chemistry

Friday, March 22, AM

Chair: TSURUGI, Hayato (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(1B4-01, 1B4-03, 1B4-04, 1B4-05, 1B4-06)

**1B4-01\*** Highly efficient synthesis of facial isomer of tris(8-hydroxyquinoline) aluminum(III) based on DFT calculation (School of Engineering, Kanagawa University) IWAKURA, Izumi; EBINA, Hideaki; KOMORI-ORISAKU, Keiko; KOIDE, Yoshihiro

**1B4-03** Synthesis of Iron and Ruthenium Complexes containing indium halides and their Structures (Osaka City Univ.) ITO, Masaki; ITAZAKI, Masumi; NAKAZAWA, Hiroshi

**1B4-04<sup>#</sup>** Synthesis of Metallated Pentacene Derivatives (Catalysis Research Center, Hokkaido Univ.) WANG, Yanqing; SONG, Zhiyi; JIA, Zhiying; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu

**1B4-05** Synthesis of Zirconium Complexes Bearing 1, 4-Bis (Arloxide)

Benzene Ligands (Dept. Chem., Tokyo Tech.) KUROI, Takashi; HATANAKA, Tsubasa; ISHIDA, Yutaka; KAWAGUCHI, Hiroyuki

**1B4-06** Synthesis and Reactions of Niobium Complexes Bearing OCO Trianionic Pincer Ligands (Department of Chemistry, Tokyo Institute of Technology) WATANABE, Wataru; HATANAKA, Tsubasa; ISHIDA, Yutaka; KAWAGUCHI, Hiroyuki

Chair: OHKI, Yasuhiro (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(1B4-08, 1B4-09, 1B4-10, 1B4-12, 1B4-13)

**1B4-08** Synthesis and Reversible Transformation of Didysprosium-Substituted Polyoxometalates (School of Engineering, The University of Tokyo) SATO, Rinta; SUZUKI, Kosuke; MIZUNO, Noritaka

**1B4-09** Reversible Switching of Single-Molecule Magnet Behaviors by Transformation of Didysprosium-Substituted Polyoxometalates (School of Engineering, The Univ. of Tokyo) SUZUKI, Kosuke; SATO, Rinta; MIZUNO, Noritaka

**1B4-10\*** Synthesis and Oxygen Transfer Reaction of Oxygen-bridged Dinuclear Cerium Complexes Supported by Phenoximine-based Multidentate Ligands (Graduate school of Engineering Science, Osaka Univ.) TANAKA, Shinji; MURUGESAPANDIAN, Balasubramanian; TOYA, Nozomi; TSURUGI, Hayato; MASHIMA, Kazushi

**1B4-12** Synthesis and Reactivity of Cerium-heterometal Alkoxide Cluster Complexes (Graduate School of Engineering Science, Osaka Univ.) TOYA, Nozomi; TANAKA, Shinji; TSURUGI, Hayato; MASHIMA, Kazushi

**1B4-13** One-step Synthesis of 3-Dimensional Coordination Polymers from Salicylaldehyde-tren-lanthanide systems (Graduate School of Environmental Studies, Tohoku Univ.; National Institute of Advanced Industrial Science and Technology) IGARASHI, Chikai; MASUYA, Atsuko; IKI, Nobuhiko; HOSHINO, Hitoshi; KANESATO, Masatoshi

Chair: KUWAMURA, Naoto (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(1B4-15, 1B4-17, 1B4-18, 1B4-19, 1B4-20)

**1B4-15\*** Crystallographic consideration on packing efficiencies of uranyl nitrate complexes with cyclic urea compounds to the melting points (RLNR, Tokyo Tech) SUZUKI, Tomoya; KAWASAKI, Takeshi; TAKAO, Koichiro; HARADA, Masayuki; NOGAMI, Masanobu; IKEDA, Yasuhisa

**1B4-17** Synthesis of [VFe<sub>3</sub>S<sub>4</sub>-Fe] and [V<sub>2</sub>Fe<sub>6</sub>S<sub>8</sub>] clusters from V(III) thiolate complexes having a tridentate [O,E,O] (E = O, P) ligand. (Graduate School of Science, and Research Center for Materials Science, Nagoya University) TANIYAMA, Nobuhiro; OHKI, Yasuhiro; TATSUMI, Kazuyuki

**1B4-18** Synthesis of Porous Coordination Polymers from Vanadium Oxide (Kyoto Univ.) YOSHIDA, Kenji; REBOUL, Julien; FURUKAWA, Shuhei; KITAGAWA, Susumu

**1B4-19<sup>#</sup>** Synthesis and Characterization of Flexible Porous Coordination Polymer from Chromium (Kyoto Univ.) KONGPATPANICH, Kanokwan; HORIKE, Satoshi; KITAGAWA, Susumu

**1B4-20** Development of a Novel Polynuclear Vanadium Oxide Complex with Bidentate Nitrogen Ligands (Faculty of Science and Engineering, Chuo Univ.) TAYA, Nobuto; KODAMA, Shintaro; ISHII, Youichi

## Friday, March 22, PM

Chair: MASUDA, Hideki (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(1B4-28, 1B4-29, 1B4-30, 1B4-31, 1B4-33)

**1B4-28** Syntheses of sulfur bridged Mo complexes with dithiophosphate ligand and the stability controlled by functional ligand (Osaka city Univ.) KAWAMOTO, Keisuke; ICHIMURA, Akio; KINOSHITA, Isamu

**1B4-29** Selective synthesis of bi- and octa-nuclear complexes using bis-β-diketone type ligand and their properties (Kyushu Univ.) TOGOU, Tatsuo; Ooba, Hisayoshi; MISHIMA, Akio; KOSHIYAMA, Tomomi; OHBA, Masaaki

**1B4-30** Concurrent Synthesis of Re(V) and Sn(IV) Complexes with Sulfur-containing Amino Acid by Two-electron Redox Reaction (Graduate School of Science, Osaka Univ.) NAKAMURA, Kiyoka; KUWAMURA, Naoto; YOSHINARI, Nobuto; IGASHIRA, Asako; KONNO, Takumi

**1B4-31\*** Spin Transition with Thermal Hysteresis of Bis(imidazole)(salen)Fe<sup>III</sup> Complexes (Kumamoto Univ.) FUJINAMI, Takeshi; KOIKE, Masataka; MATSUMOTO, Naohide; SUNATSUKI, Yukinari

**1B4-33** Preparation Novel Magnetic Ionic liquids composed of Hybrid Type Anion (Kagawa university) OHNISHI, Hirokuni; KUSUNOKI, Yoriko; TAKAGI, Yumiko

Chair: NAGAO, Hirotaka (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(1B4-35, 1B4-36, 1B4-37, 1B4-38, 1B4-39, 1B4-40)

**1B4-35** Synthesis of Novel Iron Complex Introduced by Unsymmetrical Pentapyridine Ligand (Osaka City University) NAKAO, Takuto; MORIMOTO, Yoshiki; TACHI, Yoshimitsu

**1B4-36** Reactions of Dibenzothiophene Derivatives Containing Bidentate Chelate Moieties with Iron Carbonyl Complexes (Osaka City University) SANTO, Kiyokazu; HIROTSU, Masakazu; KINOSHITA, Isamu

**1B4-37** Synthesis of Bis(terpyridine) Complex Sheet at Liquid Phase Interface

(Univ. of Tokyo) TAKADA, Kenji; YI, Shi Ting; KATAGIRI, Shunsuke; KAMBE, Tetsuya; SAKAMOTO, Ryota; NISHIHARA, Hiroshi

**1B4-38** Syntheses of asymmetric β-diketiminato Fe complexes containing a proton donor moiety (Nagoya Institute of Technology) IKEDA, Ken; SUZUKI, Tatsuya; OGAWA, Takahiko; MASUDA, Hideki

**1B4-39** Synthesis of [6Fe-2S-4O], [10Fe-4S-6O] and [9Fe-5S-2O] clusters having bulky thiolate ligands (Graduate School of Science and Research Center for Materials Science, Nagoya University) HASHIMOTO, Takayoshi; OHKI, Yasuhiro; TATSUMI, Kazuyuki

**1B4-40** Syntheses and Properties of Ruthenium Complexes Possessing NAD<sup>+</sup> Analogous Cyclometalating Ligands (Kyoto University iCeMS) FUKUSHIMA, Takashi; KOBAYASHI, Katsuaki; PADHI, S. K.; KITAGAWA, Susumu; TANAKA, Koji

Chair: SUGIMORI, Tamotsu (15 : 50~16 : 50)

\* 15:40-15:50: interval for laptop PC connection.(1B4-42, 1B4-43, 1B4-44, 1B4-45, 1B4-46, 1B4-47)

**1B4-42** Synthesis and Host-Guest Interaction of Multinuclear Box-Shaped Cluster Complexes Containing Porphyrins. (Kyushu Univ.) TOMODA, Mitsuru; ABE, Masaaki; TANIGUCHI, Naoki; INATOMI, Atsushi; ONO, Toshikazu; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio

**1B4-43** Synthesis of a new trinuclear ruthenium complex and its activity towards O<sub>2</sub> evolution from water (Kyushu Univ.; WPI-I2CNER; IRCMS) NAKAI, Takaaki; KITAMOTO, Kyouji; SAKAI, Ken

**1B4-44** Synthesis and Properties of Dinuclear Ruthenium Complex Containing Doubly Bridging NO Ligands (Fac. Sci., Sophia Univ.) KAZAMA, Yuka; NAGAO, Hirotaka

**1B4-45** Syntheses and Reactions of Azidoiminoruthenium(II) Complexes Bearing 2,2'-Bipyridine (Faculty Sci. Technol., Sophia Univ.) SUMOGE, Yuka; NAGAO, Hirotaka

**1B4-46** Synthesis and Characterization of A -Oxo and -Pyroposphate Diruthenium(III, IV) Complex (Waseda Univ.) MIYAZATO, Yuji; WADA, Tohru

**1B4-47** Electronic Effects of Ligands on Separated Proton-Coupled Electron Transfer of Ruthenium(III)-Polypyridylamine Complexes (Univ. of Tsukuba) SAWAKI, Takuya; ISHIZUKA, Tomoya; KOJIMA, Takahiko

Chair: ABE, Masaaki (17 : 00~17 : 50)

\* 16:50-17:00: interval for laptop PC connection.(1B4-49, 1B4-50, 1B4-51, 1B4-53)

**1B4-49** Synthesis and characterization of Ru complex containing amidate and pyridyl nitrogens as donor atoms (Nagoya Institute of Technology) ANDO, Hiroki; INOMATA, Tomohiko; HUNAHASHI, Yasuhiro; OZAWA, Tomohiro; MASUDA, Hideki

**1B4-50** Nitrile hydration reaction by a Ru(II) complex mimicking an active site of nitrile hydratase (Nagoya Institute of Technology) AWANO, Hiroya; INOMATA, Tomohiko; HUNAHASHI, Yasuhiro; OZAWA, Tomohiro; MASUDA, Hideki

**1B4-51\*** Step-wise modification of tris(β-diketonato)Ru(III) complexes for the application as a chiral dopant (Kitasato Univ.) YOSHIDA, Jun; KAKIZAWA, Kaori; YUGE, Hidetaka

**1B4-53** Synthesis and characterization of an amide-thiol type Co(III) complex with a non-coordinate amine group and its reactivity for nitric oxide (Nagoya Institute of Technology) ITO, Hironobu; INOMATA, Tomohiro; FUNAHASHI, Yasuhiro; OZAWA, Tomohiro; MASUDA, Hideki

## Saturday, March 23, PM

Chair: SATAKE, Akiharu (13 : 10~14 : 10)

\* 13:00-13:10: interval for laptop PC connection.(2B4-26, 2B4-27, 2B4-28, 2B4-29, 2B4-30, 2B4-31)

**2B4-26** Instant and large-scale synthesis of micro-crystals of networked M<sub>6</sub>L<sub>4</sub> cages and application for chromatography (Univ. of Tokyo; Fujita Lab.) MATSUZAKI, Shohei; INOKUMA, Yasuhide; FUJITA, Makoto

**2B4-27** Anchoring of Tp ligand on silica gel and application for immobilized metal complex (Kanagawa Univ.) NAKAMIZU, Ayaka; NAKAZAWA, Jun; HIKICHI, Shiro

**2B4-28** Synthesis and Structures of Au<sup>I</sup>Ni<sup>II</sup> Trinuclear and Hexanuclear Complexes Containing Thiomalic Acid and Diphosphine Ligands (Graduate School of Science, Osaka Univ.) IGAWA, Kosuke; KUWAMURA, Naoto; YOSHINARI, Nobuto; IGASHIRA, Asako; KONNO, Takumi

**2B4-29** The reaction of alpha-keto acid copper complexes with carbon dioxide and dioxygen (Ibaraki University) TAKISAWA, Hideyuki; FUJISAWA, Kyoshi

**2B4-30** Syntheses and characterizations of halido nickel(II) complexes with hydrotris(mercaptoimidazolyl)borate (Ibaraki Univ.) YOKOZAWA, Dai; FUJISAWA, Kiyoshi

**2B4-31** Synthesis and Chiral Behavior of Multinuclear Complexes Derived from Racemic Gold(I) Metalloligand. (Graduate School of Science, Osaka Univ.) ITAI, Takuma; KUWAMURA, Naoto; YOSHINARI, Nobuto; IGASHIRA, Asako; KONNO, Takumi

Chair: URA, Yasuyuki (14 : 20~15 : 20)

\* 14:10-14:20: interval for laptop PC connection.(2B4-33, 2B4-35, 2B4-36, 2B4-37, 2B4-38)

- 2B4-33\*** Synthesis of helical dinuclear Ni complexes of oligopyrroles and induction of helical chirality (Department of Chemistry, Graduate School of Science, Kobe University) Eerdun; SETSUNE, jun ichiro
- 2B4-35** Characterization and Reactivity of Ni(II) Complexes Supported by  $\beta$ -Diketiminato Ligand Containing Phenol Substituents (Osaka University) TAKAICHI, June; OHKUBO, Kei; SUGIMOTO, Hideki; FUJIEDA, Nobutaka; FUKUZUMI, Shunichi; ITOH, Shinobu
- 2B4-36** Synthesis and Characterization of Transition-metal Complexes Supported by Non-innocent  $\beta$ -Diketiminato Ligands (Osaka University) TAKAICHI, June; OHKUBO, Kei; SUGIMOTO, Hideki; FUJIEDA, Nobutaka; FUKUZUMI, Shunichi; ITOH, Shinobu
- 2B4-37** Synthesis of multiporphyrin arrays from bis(2-chloro-6-pyridinyl) porphyrinatozinc by nickel-mediated reductive coupling -Effect of nickel ion (Tokyo Univ. of Science) HASHIMOTO, Tomoaki; SATAKE, Akiharu
- 2B4-38** Structural Conversion of S-Bridged Au<sup>I</sup>Ni<sup>II</sup> Polynuclear Complexes with Mixed D- and L- Penicillaminato (Graduate School of Science, Osaka Univ.) FUKUSHIMA, Akeha; IGASHIRA, Asako; KUWAMURA, Naoto; YOSHINARI, Nobuto; KONNO, Takumi

Chair: OHBA, Masaaki (15 : 30~16 : 30)

- \* 15:20-15:30: interval for laptop PC connection.(2B4-40, 2B4-41, 2B4-42, 2B4-44, 2B4-45)
- 2B4-40** Synthesis of Binuclear Palladium Complexes using a Novel Ligand, Bis(bipyridyl)ferrocene (Nara Women's Univ.) FUJINO, Saki; URA, Yasuyuki; KATAOKA, Yasutaka
- 2B4-41** A Novel Synthetic Method for Octanuclear Pd and Pt Tiara-type Complexes [M( $\mu$ -SR)<sub>2</sub>]<sub>8</sub> via SCS Pincer-type Complexes (Nara Women's Univ.) YAMASHINA, Yukari; URA, Yasuyuki; KATAOKA, Yasutaka
- 2B4-42\*** Synthesis of Macrocyclic Palladium(II) Complexes and [2]Catenanes with trans-Chelating Bis(pyridyl) Ligand (Tokyo Inst. of Tech., Chem. Res. Lab.) JUNG, Miso; SUZAKI, Yuji; OSAKADA, Kohtaro
- 2B4-44** Oligomeric Palladium(II) Complexes with Mixed Thiolate-type and Thioether-type Amino Acids (Graduate School of Science, Osaka Univ.) YOKOI, Anzu; YOSHINARI, Nobuto; KUWAMURA, Naoto; IGASHIRA, Asako; KONNO, Takumi
- 2B4-45** Syntheses and Properties of S-Bridged Polynuclear Complexes with Six-Membered Chelate Rings (Kobe City Coll. Technol.; Osaka Univ.) KOUNO, Masahiro; MIYASHITA, Yoshitaro; YOSHINARI, Nobuto; KONNO, Takumi

Chair: HIROTSU, Masakazu (16 : 40~17 : 30)

- \* 16:30-16:40: interval for laptop PC connection.(2B4-47, 2B4-48, 2B4-49, 2B4-50, 2B4-51)
- 2B4-47\*** Synthesis and Chiral Behavior of Ag<sup>I</sup>Rh<sup>III</sup> and Au<sup>I</sup>Rh<sup>III</sup> Pentanuclear Complexes with L-Cysteinate (Graduate School of Science, Osaka Univ.) LEE, Pei-shan; YUAN, Hou Qun; IGASHIRA, Asako; KUWAMURA, Naoto; YOSHINARI, Nobuto; KONNO, Takumi
- 2B4-48** Synthesis and redox behavior of Platinum complex with tacn ligand (Univ. of Rikkyo) ENAMI, Koki; MIYAZATO, Yuji; WADA, Tohru
- 2B4-49** Guest-responsivity and Structural Change of Co(II)Ni(II) Porous Coordination Polymer (Kyushu Univ.) OHBA, Hisayoshi; MISHIMA, Akio; YONEDA, Ko; OHTANI, Ryo; KITAGAWA, Susumu; KOSHIYAMA, Tomomi; OHBA, Masaaki
- 2B4-50** Incorporation of Guest Responsive Sites to a Two-dimensional Cyanide-bridged Co(II)Ni(II) Coordination Polymer (Kyushu Univ.) KAJITANI, Kazuki; OHBA, Hisayoshi; YONEDA, Ko; KOSHIYAMA, Tomomi; HORI, Akihiro; OHTANI, Ryo; KITAGAWA, Susumu; OHBA, Masaaki
- 2B4-51** Synthesis of lipophilic Schiff base complexes and their incorporation in liposome (Kyushu Univ.) NAKANISHI, Keita; HATAE, Tatsuru; OKAMURA, Tomoya; KOSHIYAMA, Tomomi; OHBA, Masaaki

### Sunday, March 24, AM

Chair: YONEMURA, Toshiaki (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3B4-01, 3B4-02, 3B4-03, 3B4-04, 3B4-06)
- 3B4-01** Synthesis of Group 11 Metal Complexes Bearing PS<sub>2</sub>-Type Tripodal Tetradentate Ligand (Gunma Univ.) TSUCHIYA, Kento; TAKEDA, Nobuhiro; UNNO, Masafumi
- 3B4-02** Copper Active-Oxygen Complexes Generated by the Reaction of Mononuclear Copper(I) Complex with Peroxides (Osaka University) KOBAYASHI, Yuki; SUGIMOTO, Hideki; FUJIEDA, Nobutaka; ITOH, Shinobu
- 3B4-03** Synthesis and Magnetic Properties of Copper(II) Complexes with Iminodisulfide-type Ligands (Graduate School of Science, Osaka Univ.) KODERA, Shuntaro; IGASHIRA, Asako; KUWAMURA, Naoto; YOSHINARI, Nobuto; KONNO, Takumi
- 3B4-04\*\*** Kinetic assembly of a thermally stable porous coordination network (AMS, POSTECH) KITAGAWA, Hakuba; OHTSU, Hiroyoshi; KAWANO, Masaki
- 3B4-06** Synthesis of Cyclic Hexanuclear Complexes Derived from Asymmetric  $\beta$ -diketone-type ligands (Kyushu Univ.) YONEDA, Hiroshi; OHBA, Hisayoshi; MISHIMA, Akio; KOSHIYAMA, Tomomi; OHBA, Masaaki

Chair: NAKAJIMA, Takayuki (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3B4-08, 3B4-09, 3B4-10, 3B4-12)
- 3B4-08\*** Investigation of the coordination ability of complexed cyclen-based ligands (Tohoku University) KANDERU, Ramuji-; BURI-DORABU, Buraian; YAMASHITA, Masahiro
- 3B4-09\*** Effect of Intermolecular Interaction of Guest Molecule on Network Formation (Pohang Univ. of Science and Technology (POSTECH)) YAMADA, Tomofumi; KOJIMA, Tatsuhiro; YAKIYAMA, Yumi; EBIHARA, Masahiro; KAWANO, Masaki
- 3B4-10\*\*** Gas Phase Coordination Network Crystal Formation (AMS, POSTECH) KOJIMA, Tatsuhiro; CHOI, Wanuk; KAWANO, Masaki
- 3B4-12\*\*** Selective Encapsulation and Reaction of S<sub>3</sub> in a Porous Coordination Network (AMS, POSTECH) OHTSU, Hiroyoshi; CHOI, Wanuk; KAWANO, Masaki

Chair: KAWANO, Masaki (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(3B4-15, 3B4-16, 3B4-17, 3B4-18, 3B4-19, 3B4-20)
- 3B4-15** Synthesis of  $\alpha$  Substituted Metal Phthalocyanine (Osaka City University) AOYAGI, Sadatoshi; MORIMOTO, Yoshiki; TACHI, Yoshimitsu
- 3B4-16** Coordination Behavior of a Tripod-type Trigold(I) Complex with N-Methyl-D-penicillaminato (Graduate School of Science, Osaka Univ.) HASHIMOTO, Yuji; KUWAMURA, Naoto; YOSHINARI, Nobuto; IGASHIRA, Asako; KONNO, Takumi
- 3B4-17** Synthesis and Aggregation Behavior of Cyclic Multinuclear Gold(I) Complexes with Sulfur-containing Amino Acid (Graduate School of Science, Osaka Univ.) ARAI, Yuka; KUWAMURA, Naoto; YOSHINARI, Nobuto; IGASHIRA, Asako; KONNO, Takumi
- 3B4-18** Construction of AgS Clusters Protected by Thiolato Rhodium(III) Complexes (Graduate School of Science, Osaka Univ.) UEDA, Misaki; KUWAMURA, Naoto; YOSHINARI, Nobuto; IGASHIRA, Asako; KONNO, Takumi
- 3B4-19** Solid luminescence expression with the organic solvent of the pyrimidine thiolato silver complex (Kochi University) FUJITA, Noriko; MATSUMOTO, Kenji; YONEMURA, Toshiaki
- 3B4-20** Isomeric Structures and Photochemical Properties of Linear Tetranuclear Gold(I) Complexes Supported by Tetrakisphosphine Ligands (Nara Women's Univ.) OTAKI, Risa; NISHIDA, Tomoko; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki

### Sunday, March 24, PM

Chair: SUGIMOTO, Hideki (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(3B4-28, 3B4-29, 3B4-30, 3B4-32, 3B4-33)
- 3B4-28** Oxidative C-C Bond Formation Catalyzed by Bio-inspired Iron Complex (Doshisha Univ.) MORISAWA, Ryosuke; ARAKAWA, Kengo; HITOMI, Yutaka; KODERA, Masahito
- 3B4-29** Preparation of Nonheme Iron Complex Having a Base in the Second Coordination Sphere and Its Reactivity towards Hydrogen Peroxide (Doshisha Univ.) IKEDA, Tsuyoshi; ARAKAWA, Kengo; HITOMI, Yutaka; KODERA, Masahito
- 3B4-30\*** Lewis acid-coupled electron transfer of a non-heme iron(IV)-oxo complex (Osaka Univ.; ALCA, JST) MORIMOTO, Yuma; NISHIDA, Yusuke; NAM, Wonwoo; FUKUZUMI, Shunichi
- 3B4-32** Formation of a non-heme iron(IV)-oxo complex via proton-coupled electron transfer oxidation with one-electron oxidants (Osaka Univ.; ALCA, JST) NISHIDA, Yusuke; MORIMOTO, Yuma; FUKUZUMI, Shunichi
- 3B4-33** C-H Activation by a High Spin (S = 2) Oxodiiron(IV) (Doshisha Univ.) KAWAHARA, Yuka; HITOMI, Yutaka; KODERA, Masahito

Chair: NAKAZAWA, Jun (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(3B4-35, 3B4-36, 3B4-37, 3B4-38, 3B4-39, 3B4-40)
- 3B4-35** Electronic effect on dioxygen activation of diiron complexes: syntheses, crystal structures, and dioxygen activation of 6-hpa<sup>R</sup> (R = 4-OMe-3,5-Me<sub>2</sub> or 4-NO<sub>2</sub>) ligands (Doshisha Univ.) HINO, Shodai; KAWAHARA, Yuka; HITOMI, Yutaka; KODERA, Masahito
- 3B4-36** O-O bond scission and substrate oxidation ability of peroxodiiron(III) complex with a carboxylate-containing dinucleating ligand H<sub>2</sub>BPG<sub>2</sub>E (Fac. Sci. Eng., Doshisha Univ.) HIRANO, Tomoya; KAWAHARA, Yuka; HITOMI, Yutaka; KODERA, Masahito; KOBAYASHI, Yoshi; NOMURA, Takashi; OGURA, Takashi
- 3B4-37** Characterization of a Highly Reactive Chromium(V)-Oxo Complex and Mechanistic Insight into Oxidation Reactions of Benzyl Alcohol Derivatives (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) KAIDA, Suzue; KOTANI, Hiroaki; ISHIZUKA, Tomoya; KOJIMA, Takahiko
- 3B4-38** Synthesis of osmium complexes supported by chiral ligands and the catalytic activity in *cis*-dihydroxylation of alkenes (Graduate School of Engineering, Osaka University) MAEDA, Kazuki; SUGIMOTO, Hideki; ITOH, Shinobu
- 3B4-39** Catalytic *cis*-Dihydroxylation of Alkenes by Os(III) and Ru(III) Complexes with a Tetradentate Nitrogen Ligand (Univ. of Osaka)

ASHIKARI, Kenji; MIKAMI, Akine; SUGIMOTO, Hideki; ITOH, Shinobu  
**3B4-40** Reactions of a five-coordinate molybdenum(VI) complex with anionic ligands (Graduate School of Engineering, Osaka Univ.) SATO, Masanori; SUGIMOTO, Hideki; ITOH, Shinobu

Chair: SAKAI, Ken (15 : 50~16 : 50)

\* 15:40-15:50: interval for laptop PC connection.(3B4-42)

**3B4-42 CSJ Award for Creative Works** Energy Generation and Catalytic Dihydrogen Activation by Functional Model Complexes for Hydrogenases (Grad. Sch. Eng., Kyushu Univ.) OGO, Seiji

Chair: KODERA, Masahito (17 : 00~18 : 40)

\* 16:50-17:00: interval for laptop PC connection.(3B4-49, 3B4-51, 3B4-53, 3B4-54, 3B4-55, 3B4-57, 3B4-58)

**3B4-49\*** Studies on the Mechanism of Hydrogen Production from Water Catalyzed by Water-Soluble Pt(II) catalysts (Kyushu Univ.; WPI-I2CNER; IRCMS) YAMAUCHI, Kosei; SAKAI, Ken

**3B4-51\*** Photo-induced Hydrogen Evolution of Fe(II) Complex Possessing Non-innocent Ligands with PCET Ability (Hokkaido Univ., Faculty of Science) MATSUMOTO, Takeshi; WAKIZAKA, Masanori; USUI, Akane; UENO, Sho; KOBAYASHI, Atsushi; CHANG, Ho-chol; KATO, Masako

**3B4-53** The designing of the reaction field for hydrogen evolution by  $\text{Co}_3\text{S}_2$  cluster (Kyoto Univ.iCeMS; Faculty of Science, Kyoto University) KOBAYASHI, Katsuaki; UOTANI, Nobuo; KITAGAWA, Susumu; KITAGAWA, Hiroshi; TANAKA, Koji

**3B4-54** Catalytic Reduction of Dioxigen with a Mononuclear Copper(II) Complex in the Presence of Lewis Acids (Osaka Univ.; ALCA, JST; Johns Hopkins Univ.) KAKUDA, Saya; OHKUBO, Kei; Peterson, PYAN L.; KARLIN, KENNETH D.; FUKUZUMI, Shunichi

**3B4-55\*** Construction of novel reaction space by site-specific fixation of functional metal complexes into the liposome space (Kyushu Univ.) KOSHIYAMA, Tomomi; OKAMURA, Tomoya; IWATA, Koki; NAKANISHI, Keita; HATAE, Tatsuru; YOSHIDA, Masaki; MASAOKA, Shigeyuki; OHBA, Masaaki

**3B4-57** Oxidation Catalyses of Homo- and Hetero-geneous Complex Catalysts with Polydentate Pyridylamine Ligands. (Kanagawa Univ.) DOI, Yuma; NAKAZAWA, Jun; HIKICHI, Shiro

**3B4-58** Synthesis and properties of the lantern-type ruthenium dimer complex bearing benzoate ion introduced several electron-withdrawing groups as bridging ligand. (Shimane Univ. Kwansai Gakuin Univ.) HIRAOKA, Yuya; IKEUE, Takahisa; MANO, Takayuki; ITO, Yuma; HIROMITSU, Ichiro; YOSHIOKA, Daisuke; MIKURIYA, Masahiro; HANDA, Makoto

## Monday, March 25, AM

Chair: MORIMOTO, Tatsuki (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(4B4-01, 4B4-03, 4B4-04, 4B4-05)

**4B4-01\*** Syntheses, Structures, and Properties of Oxo-bridged Dinuclear Ruthenium Complexes Derived from a Mononuclear Ruthenium Water-oxidation Catalyst (IMS; Kyushu Univ.; JST ACT-C; WPI-I2CNER; JST PRESTO) YOSHIDA, Masaki; TORII, Sena; KONDO, Mio; SAKAI, Ken; MASAOKA, Shigeyuki

**4B4-03** Four-electron Reduction of Dioxigen Catalyzed by Binuclear Cobalt Complexes Bridged by Bis(terpyridyl)anthracene (Univ. of Rikkyo.) MAKI, Hidetaka; NISHIZAWA, Asami; MIYAZATO, Yuji; WADA, Tohru

**4B4-04** Catalytic Four-Electron Reduction of Dioxigen with a Dinuclear Cobalt- $\mu$ -1,2-peroxo Complex (Osaka Univ.; ALCA, JST; Ewha Womans Univ.; ICIQ) MASE, Kentaro; OHKUBO, Kei; MANDAL, Sukanta; PARK, Hyejin; BENET-BUCHHOLZ, Jordi; NAM, Wonwoo; LLOBET, Antoni; FUKUZUMI, Shunichi

**4B4-05\*\*** Reactivity and spectroscopic studies of bio-inspired iron porphyrin catalysts for fuel cell cathode reaction (Dept. of Chem., Kyushu Univ.; IMCE, Kyushu Univ.; I2CNER) NAGARAJU, Perumandla; LIU, Jing-gang; OHTA, Takehiro; NARUTA, Yoshinori

Chair: OHTA, Takehiro (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(4B4-08, 4B4-09, 4B4-10, 4B4-12)

**4B4-08** Photocatalytic behavior of ruthenium(II)-rhenium(I) supramolecular complexes in an aqueous solution (Tokyo Tech.) NAKADA, Akinobu; MORIMOTO, Tatsuki; MAEDA, Kazuhiko; KOIKE, Kazuhide; ISHITANI, Osamu

**4B4-09** Photochemical  $\text{CO}_2$  Reduction Catalyzed by Ruthenium Complexes in *N,N*-Dimethylacetamide/Water Solvent System (Kitasato University; PRESTO JST) KAMIYA, Masaya; FUKAYA, Kyohei; ENOMOTO, Akito; KURAMOCHI, Yusuke; USHIDA, Kiminori; ISHIDA, Hitoshi

**4B4-10\*** Reaction of Ruthenium Bis(bipyridine) Dicarbonyl Complex with  $\text{OH}^-$ : Formation of Paramagnetic Species Relating to an Intermediate in Catalytic Carbon Dioxide Reduction (Kitasato University; PRESTO JST) KURAMOCHI, Yusuke; KAMIYA, Masaya; ENOMOTO, Akito; FUKAYA, Kyohei; ISHIDA, Hitoshi

**4B4-12\*** Photocatalytic reduction of  $\text{CO}_2$  driven with red light using Os(II)-Re(I) supramolecular complexes (Tokyo Tech.) TAMAKI, Yusuke; KOIKE, Kazuhide; ISHITANI, Osamu

Chair: KONDO, Mio (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(4B4-15, 4B4-16, 4B4-17, 4B4-19)

**4B4-15** Photocatalysts of Ru(II)-Re(I) bimetallic complexes with a bridge ligand containing a hetero atom (Tokyo Tech.) KATO, Eishiro; MORIMOTO, Tatsuki; ISHITANI, Osamu; KOIKE, Kazuhide

**4B4-16** Photochemical Reduction of  $\text{CO}_2$  Using a Mn(I) Complex As a Catalyst (Tokyo Tech, AIST, ALCA/JST.) KOIZUMI, Hiroki; TAKEDA, Hiroyuki; KOIKE, Kazuhide; ISHITANI, Osamu

**4B4-17\*\*** Photocatalytic Oxygenation of 10-methyl-9,10-dihydroacridine with  $\text{O}_2$  Using a Manganese Porphyrin (Osaka Univ.; ALCA, JST) JUNG, Jieun; OHKUBO, Kei; FUKUZUMI, Shunichi

**4B4-19\*** A Base-responsive Redox Properties of Ruthenium Complexes with 2-(1,4,5,6-tetrahydropyrimidinyl)-2-phenolate Ligand (Grad. Sch. Nat. Sci. Tech., Okayama Univ.) MITSUHASHI, Ryoji; SUZUKI, Tayakoshi; SUNATSUKI, Yukinari

## Monday, March 25, PM

Chair: INAGAKI, Akiko (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(4B4-28, 4B4-29, 4B4-30, 4B4-31, 4B4-32, 4B4-33)

**4B4-28** Photocatalytic  $\text{CO}_2$  reduction by the Co complex of a penta-dentate polypyridine ligand using redox Ru(bpy)<sub>3</sub> as a photosensitizer (Saitama University) MORISHIMA, Takeshi; KODAMA, Koichi; HIROSE, Takuji

**4B4-29** A bifunctional catalyst for carbon dioxide fixation: mechanistic study (Okayama University) EMA, Tadashi; SHIMONISHI, Junta; MIYAZAKI, Yuki

**4B4-30** Reduction of a Flavin Coenzyme Analog under Atmospheric Pressure of Hydrogen in Water at Room Temperature and Selective Generation of Hydrogen Peroxide Catalyzed by an Organoiridium Complex (Osaka University; ALCA, JST) SHIBATA, Satoshi; SUENOBU, Tomoyoshi; FUKUZUMI, Shunichi

**4B4-31** Selective Generation of Hydrogen Peroxide in Photoreduction of Dioxigen by Water as an Electron Source in the Presence of an Organoiridium Aqua Complex or Iridium Hydroxide (Osaka Univ.; ALCA, JST) KATO, Satoshi; SUENOBU, Tomoyoshi; FUKUZUMI, Shunichi

**4B4-32** Catalytic four-electron oxidation of water by a dinuclear cobalt(III)-pyridylamine complex (Dept. of Chem., Univ. of Tsukuba) WATANABE, Atsuko; ISHIZUKA, Tomoya; WADA, Tohru; KATO, Satoshi; KOTANI, Hiroaki; FUKUZUMI, Shunichi; KOJIMA, Takahiko

**4B4-33** Water Oxidation Reaction Catalyzed by a Coordinatively-unsaturated Pentairon Complex (SOKENDAI; IMS; Kyushu University; Saga University; Fukuoka University; JST ACT-C; JST PRESTO) OKAMURA, Masaya; KUGA, Reiko; YOSHIDA, Masaki; YONEDA, Ko; KAWATA, Satoshi; KONDO, Mio; MASAOKA, Shigeyuki

Chair: SUENOBU, Tomoyoshi (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(4B4-35, 4B4-36, 4B4-37, 4B4-38, 4B4-39, 4B4-40)

**4B4-35** Water oxidation reaction by lipophilic Ru complex - liposome composites (Kyushu Univ.) IWATA, Koki; OKAMURA, Tomoya; HATAE, Tatsuru; YOSHIDA, Masaki; MASAOKA, Shigeyuki; KOSHIYAMA, Tomomi; OHBA, Masaaki

**4B4-36** Photocatalytic Oxygenation of Sulfides and Styrenes with Water as the Oxygen Atom Source by Polynuclear Ruthenium(II) Complexes Containing a Novel Bridging Ligand (Tokyo Institute of Technology; Chemical Resources Laboratory) KOZAWA, Kazuyuki; INAGAKI, Akiko; AKITA, Munetaka

**4B4-37** Catalytic asymmetric transfer hydrogenation with ruthenium complexes of planar-chiral 2,2':6',2''-terpyridine (Waseda University) KOTANI, Kyohei; KANOMATA, Nobuhiro; OGAWA, Narihito

**4B4-38** Reactions of Nitriles Coordinated to Nitrosylruthenium Complexes with Amines (Faculty Sci. Technol., Sophia Univ.) KONO, Taro; NAGAO, Hirotaka

**4B4-39** Reduction Reactions of Oxo-bridged Dinuclear Ruthenium Complexes Bearing Ethylbis(2-pyridylmethyl)amine (Faculty Sci. Technol., Sophia Univ.) SUZUKI, Tomoyo; NAGAO, Hirotaka

**4B4-40** Formation Mechanism of Bis(chalcogenato)-Bridged Binuclear Ruthenium-Fulvalene Complexes. (Grad. School of Sci., Hiroshima Univ., N-BARD, Hiroshima Univ.) YASUHARA, Hiroki; KANEKO, Masashi; KOGA, Kazuki; NAKASHIMA, Satoru

Chair: KOSHIYAMA, Tomomi (15 : 50~16 : 30)

\* 15:40-15:50: interval for laptop PC connection.(4B4-42, 4B4-43, 4B4-44, 4B4-45)

**4B4-42** Syntheses and properties of Lantern-Type Diruthenium(II,III) Complexes Having Formamidinato and Carboxylato Bridging Ligands (Shimane Univ. Kwansai Gakuin Univ.) IIDA, Masanari; IKEUE, Takahisa; KIMURA, Yuko; KARINO, Kazuhiro; YOSHIOKA, Daisuke; MIKURIYA, Masahiro; HANDA, Makoto

**4B4-43** Syntheses, Structures and Redox Reactions of Rh(II) Paddlewheel Dimer Complexes with Complementary Intermolecular Interactions (SOKENDAI; IMS; JST PRESTO; JST ACT-C) ITOH, Takahiro; OKAMURA, Masaya; NAKAMURA, Go; KONDO, Mio; MASAOKA, Shigeyuki

- 4B4-44** Elucidation of Reactivities in Dimethylpalladium Complex Bearing PS3 -type Tripodal Tetradentate Ligand (Gunma Univ.) KOGURE, Yuki; TAKEDA, Nobuhiro; UNNO, Masafumi
- 4B4-45** Close packing of a Pd(II) complex and an alkyne in an M6L4 hollow complex and the subsequent terminal C-H bond activation (Grad. School of Engineering, The Univ. of Tokyo) KOHYAMA, Yuh; MURASE, Takashi; FUJITA, Makoto

## Room B5

### CO-LEARNING HOUSE II 803

## Coordination Chemistry, Organometallic Chemistry

Friday, March 22, AM

Chair: TOKORO, Hiroko (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(1B5-01, 1B5-03, 1B5-04, 1B5-06)
- 1B5-01\*** The Synthesis of Al(III)-based Porous Coordination Polymer and its property of hydrogen adsorption (iCeMS, Kyoto Univ.) HIGUCHI, Masakazu; WATANABE, Daisuke; OSHIMA, Shinji; KITAGAWA, Susumu
- 1B5-03** Hydrogen Storage and Spectroscopic Property of Al(III)-based Porous Coordination Polymers (Graduate School of Engineering, Kyoto University) TSUTSUMI, Yosuke; HIGUCHI, Masakazu; KITAGAWA, Susumu
- 1B5-04\*** Design of Coordination Space for Responsive Proton Conduction (Kyoto Univ.) UMEYAMA, Daiki; HORIKE, Satoshi; INUKAI, Munehiro; KITAGAWA, Susumu
- 1B5-06** Theoretical study on proton conductive coordination polymer (Kyoto Univ. FIFC) HIJIKATA, Yuh; SAKAKI, Shigeyoshi

Chair: HORIKE, Satoshi (10 : 10 ~ 11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(1B5-08, 1B5-09, 1B5-10, 1B5-11, 1B5-12, 1B5-13)
- 1B5-08** Phonon mode calculation for zero-thermal expansion material of rubidium manganese hexacyanoferrate (Univ. of Tokyo, NEXT JSPS, CREST-JST) TOKORO, Hiroko; IMOTO, Kenta; NAKAGAWA, Kosuke; HAKOE, Fumiyoshi; OHKOSHI, Shin-ichi
- 1B5-09** Control of Magnetic Properties of Cyano-Bridged Mn-Nb Assembly using Coordination Geometry of Octacyanometalate (Univ. of Tokyo, CREST-JST) IMOTO, Kenta; NAKAGAWA, Kosuke; MIYAHARA, Hiroyuki; OHKOSHI, Shin-ichi
- 1B5-10** Photomagnetism with a gigantic coercive field in an octacyanometalate CoW(4-methylpyridine)(pyrimidine) (The Univ. of Tokyo; NEXT-JSPS; CREST-JST) OZAKI, Noriaki; TOKORO, Hiroko; OHKOSHI, Shin-ichi
- 1B5-11** Novel Green Luminescent Gel Complex with Terbium(III) (College of Science and Engineering, Aoyama Gakuin University) ZAMA, Yusuke; YANAI, Kazushige; TSUCHIYAGAITO, Junko; TAKAHASHI, Isao; YAMANAKA, Masamichi; HASEGAWA, Miki
- 1B5-12** Lanthanide luminescence enhanced by the iminonitroxide diradical. (Coll. Sci. Eng., Aoyama Gakuin Univ.) FUKUSHIMA, Mayuko; TAKEUCHI, Toshiaki; SUZUKI, Shuichi; SHIGETA, Yasuteru; TAKAHASHI, Isao; HASEGAWA, Miki
- 1B5-13** Theoretical study on absorption properties of a diradical molecule with the ground triplet states (Osaka University) NAKAMURA, Ryota; SHIGETA, Yasuteru; OKUNO, Katsuki; KISHI, Ryohei; SUZUKI, Shuichi; HASEGAWA, Miki; NAKANO, Masayoshi

Chair: HASEGAWA, Miki (11 : 20 ~ 12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(1B5-15, 1B5-16, 1B5-17, 1B5-19, 1B5-20)
- 1B5-15** Effect of f-f interactions on dynamic magnetism of quadruple-decker phthalocyanine complexes (Grad. Sch. Sci., Osaka Univ.) MATSUMURA, Kazuya; FUYUHIRO, Akira; FUKUDA, Takamitsu; ISHIKAWA, Naoto
- 1B5-16** Dependence of zero-field splitting of Gd phthalocyanine complexes on ligand oxidation states and coordination environment (Osaka Univ.) TADSURU, Aoi; FUYUHIRO, Akira; FUKUDA, Takamitsu; ISHIKAWA, Naoto
- 1B5-17\*** Magnetic evaluation and STM observation of octaethylporphyrin-terbium double-decker single molecular magnet (Graduate School of Science, Osaka Univ.) INOSE, Tomoko; TANAKA, Daisuke; TANAKA, Hirofumi; IYASAKI, Naoto; NAGATA, Toshi; De Feyter, Steven; ISHIKAWA, Naoto; OGAWA, Takuji
- 1B5-19** Structures and magnetic properties of lanthanide(III) phthalocyaninato multiple-decker complexes. (Tohoku Univ.) HORII, Yoji; KATOH, Keiichi; YAMASHITA, Masahiro
- 1B5-20** Synthesis and Magnetic Properties of Tetra-nuclear Terbium(III)-Phthalocyanate Complex (Graduate school of science, Tohoku University) MORITA, Takaumi; KATOH, Keiichi; TAKAISHI, Shinya; YAMASHITA, Masahiro

Friday, March 22, PM

Chair: TANAKA, Daisuke (13 : 30 ~ 14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(1B5-28, 1B5-29, 1B5-30, 1B5-31, 1B5-32, 1B5-33)
- 1B5-28** Generation and reactivity of a Re(I) complex with both CO<sub>2</sub> and triethanolamine as ligands (Tokyo Institute of Technology) NAKAJIMA, Takuya; KOIKE, Kazuhide; MORIMOTO, Tatsuki; ISHITANI, Osamu
- 1B5-29** Synthesis and properties of multinuclear metal complexes based on a mononuclear metal complex ligand (Kobe Univ.; CSREA; MPRC; ISSP) KAWAMUKAI, Kiko; TAKAHASHI, Kazuyuki; SAKURAI, Takahiro; OHTA, Hitoshi; MORI, Hatsumi; SAKAKIBARA, Toshiro
- 1B5-30** Guest Responsivity of Meso-Sized Fe(II)Pt(II) Porous Coordination Polymers (Kyushu Univ.) MISHIMA, Akio; YONEDA, Ko; OHTANI, Ryo; KITAGAWA, Susumu; KOSHIYAMA, Tomomi; OHBA, Masaaki
- 1B5-31** Structures and magnetism of novel Fe<sup>II</sup> and Mn<sup>II</sup> triangle trinuclear complexes with a novel S-shaped hexadentate ligand derived from phenazine. (Faculty of Science and Technology, Kinki Univ., R.I. for Science and Technology, Kinki Univ.) YAMAGUCHI, Ryotaro; SUGIMOTO, Kunihisa; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA, Takayoshi
- 1B5-32** Development and magnetic properties of iron mixed-valence complexes (SP-R)[Fe<sup>II</sup>Fe<sup>III</sup>(dto)<sub>3</sub>]SP = spiropyran; R = alkyl group; dto = C<sub>2</sub>O<sub>2</sub>S<sub>2</sub> (Grad. Sch. Arts and Sci., The Univ. of Tokyo) YOSHIDA, Junya; OKAZAWA, Atsushi; KOJIMA, Norimichi
- 1B5-33** Solid state high resolution NMR study of charge transfer phase transition in AMn[Fe(CN)<sub>6</sub>](A = Rb, Cs) (Hokkaido Univ.) NAKANISHI, Takumi; MARUTA, Goro; TAKEDA, Sadamu

Chair: TAKAHASHI, Kazuyuki (14 : 40 ~ 15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(1B5-35, 1B5-36, 1B5-37, 1B5-39, 1B5-40)
- 1B5-35** Synthesis and Evaluation of a Anionic Spin-Crossover Complexes. (IGSES, Kyushu Univ.) KARIYAZAKI, Akira; KANG, Soonchul; KANEGAWA, Shinji; SATO, Osamu
- 1B5-36** Preparation of the spin crossover nanoparticle - carbon nanotube composite networks and their electronic properties. (Osaka Univ.) AKETA, Naoki; TANAKA, Daisuke; HUKUMORI, Minoru; TANAKA, Hirohumi; OGAWA, Takuji
- 1B5-37\*** Electric-Field Manipulation of the Spin State in pH-Sensitive Spin-Crossover Complex Film (Graduate School of Arts and Sciences, The Univ. of Tokyo) KAMEBUCHI, Hajime; JO, Taketomo; OKAZAWA, Atsushi; ENOMOTO, Masaya; KOJIMA, Norimichi
- 1B5-39** The study of electronic states of the assembled iron(II) complexes bridged by bipyridine-type ligands using density functional method. (Grad. School of Sci., Hiroshima Univ.; N-BARD, Hiroshima Univ.) KANEKO, Masashi; TOKINOBU, Satoshi; NAKASHIMA, Satoru
- 1B5-40** Syntheses of Anion Mixed Crystals of Assembled Iron Complexes Bridged by 1,3-Bis(4-pyridyl)propane and Their Spin States (Grad. School of Sci., Hiroshima Univ., N-BARD, Hiroshima Univ.) DOTE, Haruka; YASUHARA, Hiroki; NAKASHIMA, Satoru

Chair: KANEGAWA, Shinji (15 : 50 ~ 16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(1B5-42, 1B5-43, 1B5-45, 1B5-47)
- 1B5-42** Structure and physical properties of multifunctional spin crossover complexes introducing halogen bond interactions (Kobe Univ.; CSREA; MPRC; ISSP) FUKUROI, Kappei; TAKAHASHI, Kazuyuki; SAKURAI, Takahiro; OHTA, Hitoshi; MORI, Hatsumi
- 1B5-43\*** Novel Tanabe-Sugano Diagram for Metal Complexes Having a Variety of a Molecular Symmetry (Kagawa Univ.; Kwansai Gakuin Univ.; Okayama Univ. of Sci.; Tohoku Univ.) ISHII, Tomohiko; MATSUSHIMA, Ryo; IWAKURA, Masanori; OGASAWARA, Kazuyoshi; SAKANE, Genta; YAMASHITA, Masahiro
- 1B5-45\*** Selective NO adsorption in a paddlewheel-type Ru dimer chain compound (Kanazawa Univ.) KOSAKA, Wataru; YAMAGISHI, Kayo; HAYASHI, Yoshito; MIYASAKA, Hitoshi
- 1B5-47** Doping of inert metal unit into a one-dimensional metal complex exhibiting a N-I phase transition (Kanazawa Univ.) NAKABAYASHI, Keita; KOSAKA, Wataru; HAYASHI, Yoshito; MIYASAKA, Hitoshi

Chair: MIYASAKA, Hitoshi (17 : 00 ~ 18 : 20)

- \* 16:50-17:00: interval for laptop PC connection.(1B5-49, 1B5-50, 1B5-51, 1B5-52, 1B5-53, 1B5-54, 1B5-55, 1B5-56)
- 1B5-49** Synthesis and Characterization of a -Azido-Ruthenium(II) Dinuclear Complex (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) MAKINO, Misaki; ISHIZUKA, Tomoya; KOTANI, Hiroaki; KOJIMA, Takahiko
- 1B5-50** Structure-Activity Relationship on RuPt-based Photo-hydrogen-evolving Molecular Device. (Kyushu Univ.; WPI-I2CNER; IRCMS) MIYAJI, Masayuki; KITAMOTO, Kyoji; SAKAI, Ken
- 1B5-51** Dual Emission Behavior of Polypyridyl Ruthenium(II) Complexes Having Arylethynyl Substituents (Hokkaido Univ.; Univ. North Carolina at Chapel Hill; PRESTO, JST) MATSUMOTO, Chiaki; MOCHIDA, Kosuke; ITO, Akitaka; SAKUDA, Eri; KITAMURA, Noboru
- 1B5-52** Structures and Photochemical Properties of Photosensitizing Frame-

works based on Ru(II)-complex Ligands (Hokkaido Univ. Graduate School of Chemical Sciences and Engineering) SAITOH, Erika; SUZUKI, Yui; OHBA, Tadashi; KOBAYASHI, Atsushi; CHANG, Ho-chol; KATO, Masako

**1B5-53** Time-resolved Infrared Vibrational Spectroscopy of Ruthenium Polypyridyl Complexes (Tokyo Tech) MUKUTA, Tatsuhiko; FUKAZAWA, Naoto; MURATA, Kei; INAGAKI, Akiko; AKITA, Munetaka; KOSHIHARA, Shin-ya; ONDA, Ken

**1B5-54** Ruthenium or Osmium binuclear complexes with cyclometalation in bridge ligand (Faculty of Science and Engineering, Chuo University) NAGASHIMA, Takumi; SUZUKI, Takashi; OZAWA, Hiroaki; ZHONG, Yu-wu; HAGA, Masa-aki

**1B5-55** Mechanistic Study of O<sub>2</sub> Evolution Reaction Catalyzed by Cobalt Porphyrins (Kyushu Univ.; WPI-I2CNER; IRCMS) NAKAZONO, Takashi; SAKAI, Ken

**1B5-56** Structures and Magnetic Behaviors of Di-nuclear Complexes bridged by Verdazyl Radical (Institute for Materials Chemistry and Engineering, Kyushu Univ.) KANEGAWA, Shinji; AKIYOSHI, Shogo; KANG, Soonchul; SATO, Osamu

## Saturday, March 23, PM

Chair: TAKAISHI, Shinya (13 : 10~14 : 10)

\* 13:00-13:10: interval for laptop PC connection.(2B5-26, 2B5-27, 2B5-28, 2B5-30, 2B5-31)

**2B5-26** A Study on Intermolecular Interaction affecting the Luminescence of Ir(ppy)<sub>3</sub> in solution (Yokohama City Univ.) TAKAYASU, Satoshi; SHINOZAKI, Kazuteru

**2B5-27** Synthesis and Photophysical Properties of Novel Six-membered Cyclometalated Iridium(III) Complexes (Faculty of Science and Engineering, Chuo University) YAMADA, Kie; OZAWA, Hiroaki; HAGA, Masa-aki

**2B5-28\*** Design, Synthesis and Photochemical Properties of Tris-Cyclometalated Iridium(III) Complexes that Exhibit Blue-, Green-, and Red-color Luminescence Emission (Fac. Pharm. Tokyo Univ. of Sci.; Center Tech. against Cancer, Tokyo Univ. of Sci.) HISAMATSU, Yosuke; MOROMIZATO, Shinsuke; NAKAGAWA, Akihiro; KANDO, Aya; AOKI, Shin

**2B5-30** Photoisomerization of Diastereomeric Triscyclometalate Iridium (III) Complex Having Chiral Piene Ligands (Chiba University, Graduate School of Engineering) IKEDA, Ayumi; YAGAI, Shiki; KITAMURA, Akihiko; KARATSU, Takashi

**2B5-31** Nonradiative decay process of cyclometalated iridium (III) carbene complexes (Grad. Sch. Eng., Chiba Univ. University) SHIMODE, Mana; TSUCHIYA, Kazuyoshi; YAGAI, Shiki; KITAMURA, Akihiko; KARATSU, Takashi

Chair: MATSUSHITA, Nobuyuki (14 : 20~15 : 20)

\* 14:10-14:20: interval for laptop PC connection.(2B5-33, 2B5-34, 2B5-35, 2B5-36, 2B5-38)

**2B5-33** Novel Synthetic Method and Physical Properties for Metal Nanoparticle/Metal-Organic Framework Hybrid Materials (Kyoto Univ., JST-CREST, Osaka Prefecture Univ., Kyushu Univ.) MUKOYOSHI, Megumi; KOBAYASHI, Hirokazu; YAMADA, Teppei; MAESATO, Mitsuhiko; KITAGAWA, Hiroshi; KUBOTA, Yoshiki; YAMAMOTO, Tomokazu; MATSUMURA, Sho

**2B5-34** Novel bis(nitroxide)-chelated nickel(II) complexes showing spin-transition-like behavior (The University of Electro-Communications) HOMMA, Yuta; ISHIDA, Takayuki

**2B5-35** Structure and Physical Property of Nickel Complex with Ammonium Cation (Tohoku Univ.) HADA, Mami; TAKAISHI, Shinya; KATOH, Keiichi; BREEDLOVE, Brian K.; ISHIHARA, Nozomi; YAMASHITA, Masahiro

**2B5-36\*** Chemical Trend of Exchange Couplings and Molecular Structures on Lanthanide(III)-Nickel(II) Heterospin Systems (Univ. of Tokyo; Tohoku Univ.; UEC Tokyo) OKAZAWA, Atsushi; NOJIRI, Hiroyuki; ISHIDA, Takayuki; KOJIMA, Norimichi

**2B5-38** Electronic State of Quasi-One-Dimensional Halogen-Bridged Metal Complexes with R,R-cyclopentanediamine Ligand (Tohoku Univ.) YOSHIDA, Takefumi; TAKAISHI, Shinya; KATOH, Keiichi; BREEDLOVE, Brian, K; YAMASHITA, Masahiro

Chair: OKAZAWA, Atsushi (15 : 30~16 : 30)

\* 15:20-15:30: interval for laptop PC connection.(2B5-40, 2B5-41, 2B5-42, 2B5-43, 2B5-44, 2B5-45)

**2B5-40** Induction and Control of Residual Dipolar Coupling by Stepwise Self-Assembly of Magnetically Aligning Complexes (School of Engineering, The Univ. of Tokyo; CREST) TAKEUCHI, Ryosuke; SATO, Sota; YAGI, Maho; YAMAGUCHI, Takumi; YAMAGUCHI, Yoshiki; KATO, Koichi; FUJITA, Makoto

**2B5-41** Excited states of the complex consisting of [Pt(CN)<sub>4</sub>]<sup>2-</sup> and Methylviologen (Rikkyo University; Ochanomizu University) KOJIMA, Ryohei; MORI, Hirotoshi; MOCHIZUKI, Yuji; UENOHARA, Waka; MATSUO, Takeshi; MATSUSITA, Nobuyuki

**2B5-42** Synthesis and Solid-State Emission of Cyclic Binuclear Platinum Complex with m-Xylene Spacer. (Graduate School of Engineering Science, Osaka Univ) NAITO, Masaya; KOMIYA, Naruyoshi; NAOTA, Takeshi

**2B5-43** Solid-State Phosphorescence of trans-Bis(salicylaldehyde)Pt(II) Complexes Bearing Long Alkyl Chain (Graduate School of Engineering Science, Osaka Univ.) ITAMI, Nao; KOMIYA, Naruyoshi; NAOTA, Takeshi

**2B5-44** Synthesis and Luminescent Properties of Polymethylene-Vaulted trans-Bis(iminopyrrolato)platinum(II) Complexes (Graduate School of Engineering Science, Osaka Univ) YOSHIDA, Atsushi; HOSHINO, Makoto; TAKAHASHI, Koichi; KOMIYA, Naruyoshi; NAOTA, Takeshi

**2B5-45** Crystal Structure and Electronic State of a Novel 4-legged MX-tube Platinum Complex with a short inter-chain distance (Grad. Sch. Sci., Kyoto Univ. ; JST-CREST) OTAKE, Kenichi; OTSUBO, Kazuya; SUGIMOTO, Kunihisa; FUJIWARA, Akihiko; KITAGAWA, Hiroshi

Chair: KOMIYA, Naruyoshi (16 : 40~17 : 30)

\* 16:30-16:40: interval for laptop PC connection.(2B5-47, 2B5-48, 2B5-50)

**2B5-47** Emission Color Tuning of Pt(II) Complexes with an Asymmetric Dipyrrolylbenzene Type Ligand by Introducing Electron-Donating and Electron-Withdrawing Groups. (Yokohama City Univ.) KAYANO, Takahiro; SHINOZAKI, Kazuteru

**2B5-48\*** Ligand exchange reactions and luminescent properties of phosphorescent chalcogenoplatinacycles (Saitama Univ.) YAMAGUCHI, Yuki; BACQUE, Laurent; NAKATA, Norio; ISHII, Akihiko

**2B5-50\*** Luminescence behavior of SCS Pincer Pt(II) Complexes with Secondary Thioamide Units in Aggregate State (Univ. of Tsukuba) HONDA, Hiroya; OGAWA, Yasuyuki; KUWABARA, Junpei; KANBARA, Takaki

## Sunday, March 24, AM

Chair: KURODA-SOWA, Takayoshi (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(3B5-01, 3B5-02, 3B5-03, 3B5-05, 3B5-06)

**3B5-01** H<sub>2</sub>-evolving Activities of New PtCl<sub>2</sub>(bpy) Derivatives Having a Photoinduced Multi-electron Storage Function (Kyushu University) KITAMOTO, Kyoji; SAKAI, Ken

**3B5-02** ITO Electrode Modified with a PtCl<sub>2</sub>(bpy) Derivative Having Phosphate Groups and its Hydrogen Evolution Characteristics (Kyushu Univ.; WPI-I2CNER; IRCMS) SHIKA, Takuto; YAMAUCHI, Kosei; SAKAI, Ken

**3B5-03\*** Crystal Structures and Physical Properties of Mixed-Valence Platinum Complexes with Orthogonal Two-Types of One-Dimensional Chains (Kyoto Univ.; JST-CREST; JASRI/Spring-8) OTSUBO, Kazuya; SUGIMOTO, Kunihisa; FUJIWARA, Akihiko; KITAGAWA, Hiroshi

**3B5-05** Correlation between coordination structures and magnetic behaviours of Zn(II)-Tb(III)-Zn(II) single molecule magnet (Nara Women's Univ. ; Osaka Univ.;IMR, Tohoku Univ.) THEN, Poh Ling; TAKEHARA, Chika; YAMASHITA, Kei; KATAOKA, Yumiko; KAJIWARA, Takashi; NAKANO, Motohiro; YAMAMURA, Tomoo

**3B5-06** Synthesis, structure and SMM behavior of a linear Zn(II)-Ce(III)-Zn(II) complex (Nara Women's Univ. ; Osaka Univ. ;IMR, Tohoku Univ.) TAKEHARA, Chika; THEN, Poh Ling; YAMASHITA, Kei; KATAOKA, Yumiko; KAJIWARA, Takashi; NAKANO, Motohiro; YAMAMURA, Tomoo

Chair: SAKAI, Ken (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(3B5-08, 3B5-09, 3B5-10, 3B5-11)

**3B5-08** Crystal Structures and Carrier Transport Properties of 1D Coordination Polymers with Dithiocarbamate Ligands (Kinki Univ.; PRESTO) OKUBO, Takashi; ANMA, Haruho; HIMOTO, Kento; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi

**3B5-09** Studies on Field-Effect Transistors with Dithiocarbamate Coordination Polymers (Kinki Univ.; PRESTO) HIMOTO, Kento; ANMA, Haruho; TOKUGAWA, Kenta; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi

**3B5-10** Development of Bulk-Hetero-Junction Type Solar Cells Doped with Dithiocarbamate Coordination Polymers (Kinki Univ.; Kitami Inst. Tech; PRESTO) NAKATANI, Kenji; ANMA, Haruho; KIM, Kyung Ho; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi

**3B5-11 CSJ Award for Young Chemists** Creation of Proton Conductor by Acidic Metal-Organic Frameworks (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.) YAMADA, Teppei

Chair: KITAGAWA, Yasutaka (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(3B5-15, 3B5-17, 3B5-18, 3B5-19)

**3B5-15\*** Solvated Ion Pairing Effects on Ring Rotation Behaviors in Copper(I) Complex Bearing 4-Methyl-2-(2'-pyridyl)pyrimidine (Univ. of Tokyo) NISHIKAWA, Michihiro; NOMOTO, Kuniharu; KUME, Shoko; NISHIHARA, Hiroshi

**3B5-17** Formation of a Dinuclear Complex Accompanied by Linkage Isomerization of an Unsymmetric Bipyrimidine Complex (Univ. of Tokyo) HATTORI, Yohei; NISHIKAWA, Michihiro; KUME, Shoko; NISHIHARA, Hiroshi

**3B5-18** Dielectric and Magnetic Changes of Paddle-Wheel Type Cu(II)



Coordination Polymers Bearing Polar Ligands through H<sub>2</sub>O Adsorption-Desorption Processes (IMRAM, Tohoku Univ.) TAKAHASHI, Kiyonori; HOSHINO, Norihisa; NORO, Shin-ichiro; NAKAMURA, Takayoshi; AKUTAGAWA, Tomoyuki

- 3B5-19\*** Solid State White Emission of Gold(I) Isocyanide Complex Based on Concomitant Polymorphs (Faculty of Engineering and Frontier Chemistry Center, Graduate School of Chemical Sciences and Engineering, Hokkaido Univ.) SEKI, Tomohiro; ITO, Hajime

### Sunday, March 24, PM

Chair: NORO, Shinichiro (13 : 30~14 : 20)

- \* 13:20-13:30: interval for laptop PC connection.(3B5-28, 3B5-30, 3B5-31, 3B5-32)

- 3B5-28\*** Synthesis and redox properties of octanuclear gold cluster with thiolate ligands ligated at specific sites (Hokkaido Univ.) KAMEI, Yutaro; SHICHIBU, Yukatsu; KOBAYASHI, Naoki; KONISHI, Katsuaki

- 3B5-30** Synthesis of subnanometer-sized gold clusters and their optical properties (Hokkaido Univ.) KOBAYASHI, Naoki; KAMEI, Yutaro; SHICHIBU, Yukatsu; KONISHI, Katsuaki

- 3B5-31** Computational Study for Optical Properties of Polynuclear Gold Complexes (Graduate school of science, Osaka university) HAYASHI, Sachio; SAKATA, Kohei; TADA, Kohei; KITAGAWA, Yasutaka; KAWAKAMI, Takashi; YAMANAKA, Shusuke; OKUMUMA, Mitsutaka

- 3B5-32** Study on Silver(I) Complexes Having an Intermolecular Ag(I)- $\pi$  Interaction (Doshisha Univ.) NAGAI, Toshiyuki; HITOMI, Yutaka; KODERS, Masahito

Chair: NISHIOKA, Takanori (14 : 30~15 : 30)

- \* 14:20-14:30: interval for laptop PC connection.(3B5-34, 3B5-35, 3B5-37, 3B5-39)

- 3B5-34** Dynamic Control of the Self-assembled Metal Complex hybrids with H<sub>2</sub>tdpd (Fukuoka Univ.) YOSHIOKA, Shiiori; FUYUHIRO, Akira; HAYAMI, Shinya; KAWATA, Satoshi

- 3B5-35\*** Dynamic helicity control of helical hexaoxime multinuclear complexes utilizing chemical conversions (Faculty of Pure and Applied Sciences, University of Tsukuba) SAIRENJI, Shiho; AKINE, Shigehisa; NABESHIMA, Tatsuya

- 3B5-37\*** Selective Syntheses Geometrical Isomers of Ruthenium(II) Complexes with a 8-(Diphenylphosphanyl)quinoline and their Catalytic Activity for Carbon Dioxide Reduction (SOKENDAI; IMS; Okayama Univ.; Nagoya Univ.; JST ACT-C; JST PRESTO) NAKAMURA, Go; SUZUKI, Takayoshi; Takagi D., Hideo; NAGATA, Toshi; OKAMURA, Masaya; YOSHIDA, Masaki; KONDO, Mio; MASAOKA, Shigeyuki

- 3B5-39** Synthesis and Structure of Vaulted trans-Bis[1-(2-phenoxy)-imidazol-2-ylidene]platinum(II) Complex (Graduate School of Engineering Science, Osaka Univ) YOSHIDA, Atsushi; KOMIYA, Naruyoshi; NAOTA, Takeshi

Chair: MATSUSHITA, Nobuyuki (15 : 40~16 : 40)

- \* 15:30-15:40: interval for laptop PC connection.(3B5-41, 3B5-42, 3B5-43, 3B5-44, 3B5-46)

- 3B5-41** Dynamic Behavior of Trinuclear Complexes with a Chelated N-Heterocyclic Carbene Platinum Moiety (Department of Chemistry, Graduate School of Science, Osaka City University) MAEDA, Yuri; HASHIMOTO, Hideki; KINOSHITA, Isamu; NISHIOKA, Takanori

- 3B5-42** Synthesis and Structure of Vaulted trans-(alkylamine)chlorosalicylal-diminatoplatinum(II) Complexes (Graduate School of Engineering Science, Osaka Univ) HORI, Hirokazu; KOMIYA, Naruyoshi; NAOTA, Takeshi

- 3B5-43** Emission Properties Based on Complexation of Platinum(II) Complex Bearing Uracil Moiety (Osaka Univ.) SAKAMOTO, Yuki; MORIUCHI, Toshiyuki; HIRAO, Toshikazu

- 3B5-44\*** Conformational Change-Induced Switching of the Emission Properties of a Dinuclear Alkynylplatinum(II) Pyridinedicarboxamide (Osaka Univ.) GROSS, Annika; MORIUCHI, Toshiyuki; HIRAO, Toshikazu

- 3B5-46** Metal-Complex Assemblies Constructed from a Flexible Ligand H<sub>2</sub>bhnq: Structural Versatility and Control of Cavity (Fukuoka Univ.) TANAKA, Seiya; FUYUHIRO, Akira; HAYAMI, Shinya; KAWATA, Satoshi

Chair: AKINE, Shigehisa (16 : 50~17 : 50)

- \* 16:40-16:50: interval for laptop PC connection.(3B5-48, 3B5-49, 3B5-50, 3B5-51, 3B5-52, 3B5-53)

- 3B5-48** Synthesis of Cobalt-Sulfur Cluster Complexes Using Bowl-Shaped [60] Fullerene Ligands (Univ. of Tokyo) MARUYAMA, Masashi; MATSUO, Yutaka

- 3B5-49** Synthesis and structural characterization of polynuclear metal complexes with Hbpypz (Fukuoka Univ.) FURUSHOU, Midori; KATSUDA, Nagisa; WASHIZAKI, Tsubasa; MISHIMA, Akio; HAMATAKE, Yumi; FUYUHIRO, Akira; HAYAMI, Shinya; KAWATA, Satoshi

- 3B5-50** Clarifying the Thermochromism and Hydration-Dehydration Transitions of Ni(II)-Diamine Complex by Crystal Structure Analysis from Powder Diffraction Data (Rigaku ASD) KONAKA, Hisashi; SASAKI, Akito

- 3B5-51** Synthesis, Properties, and Reactivity of N-Confused Corrole Copper (III) Complexes (Grad. Sch. Eng., Kyushu Univ.) NODA, Katsuya; TOGANO, Motoki; FURUTA, Hiroyuki

- 3B5-52** Investigation for synthesis and properties of polynuclear metal complexes from Hbpypz (Fukuoka Univ.) WASHIZAKI, Tsubasa; FURUSHOU, Midori; KATSUTA, Nagisa; HAMATAKE, Yumi; MISHIMA, Akio; FUYUHIRO, Akira; HAYAMI, Shinya; KAWATA, Satoshi

- 3B5-53** Syntheses and Properties of Luminescent Binuclear and Mononuclear Copper(I) Acetylide Complexes (Osaka City University, Showa Chemical Industry Co. Ltd., University of Toyama) KAMBARA, Ryusuke; HORIKOSHI, Takafumi; SUZUKI, Shuichi; KOZAKI, Masatoshi; UENO, Mituyo; ISHIYAMA, Yasushi; NARUSE, Daisuke; IWAMURA, Munetaka; NOZAKI, Koichi; OKADA, Keiji

### Monday, March 25, AM

#### Zr, Ti

Chair: MURAOKA, Takako (9 : 10 ~ 10 : 00)

- \* 9:00-9:10: interval for laptop PC connection.(4B5-02, 4B5-03, 4B5-04, 4B5-05)

- 4B5-02** Development of Novel Catalytic Reaction of Zirconocene Complexes by Transmetalation (Hokkaido University Catalysis Research Center) TAKIZAWA, Shota; SONG, Zhiyi; TAKAHASHI, Tamotsu

- 4B5-03\*** C-C Bond Cleavage Reaction of (Dihydroindenyl)titanium Complexes: Evidence for Titanium-Carbene Intermediate (Catalysis Research Center, Hokkaido Univ.) LI, Haijun; SONG, Zhiyi; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu

- 4B5-04** Coupling Reaction of Internal Alkyne and Imido Ligand of Imido-bridged Titanium Dinuclear Complex via C-H Bond Activation (Graduate School of Engineering Science, Osaka University) NAGAE, Haruki; TSURUGI, Hayato; MASHIMA, Kazushi

- 4B5-05\*\*** Dinitrogen Activation by Titanium Hydride (RIKEN) HU, Shaowei; SHIMA, Takanori; HOU, Zhaomin

Chair: KAWATA, Satoshi (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(4B5-08, 4B5-09, 4B5-11, 4B5-12, 4B5-13)

- 4B5-08** Synthesis and Properties of Transition Metal Complexes with Acene-imide Disulfide Showing Long Wavelength Light Absorption (The Univ. of Tokyo) SUZUKI, Tsuyoshi; NAKAGAWA, Takafumi; MATSUO, Yutaka

- 4B5-09\*** Synthesis and Electronic Properties of Metallocene-Appended Metal Cluster Complexes (Kyushu Univ.) IKEGAMI, Atsushi; ABE, Masaaki; ONO, Toshikazu; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio

- 4B5-11\*** Self-assembled Ru<sub>6</sub>L<sub>4</sub> molecular capsule as a solution counterpart of Co<sub>6</sub>L<sub>4</sub> networked capsules (School of Engineering, The Univ. of Tokyo; CREST) NING, Guo-hong; INOKUMA, Yasuhide; FUJITA, Makoto

- 4B5-12** Structures and properties of dinuclear rhodium complexes having formamidinato and cyclooctadiene ligands (Shimane Univ. Kwansai Gakuin Univ.) IDE, Yuki; INOUE, Ryoko; IKEUE, Takahisa; YOSHIOKA, Daisuke; MIKURIYA, Masahiro; HANDA, Makoto

- 4B5-13\*** Crystal engineering of barium coordination polymers with different inorganic dimensionalities (Kyoto University iCeMS) FOO, Maw Lin; HORIKE, Satoshi; KITAGAWA, Susumu

Chair: HORIKE, Satoshi (11 : 20~12 : 10)

- \* 11:10-11:20: interval for laptop PC connection.(4B5-15, 4B5-16, 4B5-17, 4B5-18)

- 4B5-15** Synthesis and characterization of metal-complex from polypyridyl-methanes (Fac. Sci., Fukuoka Univ.) TSUNEZUMI, Yuya; HAYAMI, Shinya; MATSUMOTO, Kouzou; KAWATA, Satoshi

- 4B5-16** Synthesis and Structure of a New Trinuclear Iron Complex with Multinucleating Ligands Having Redox-Active Sites (Institute for Molecular Science) LIU, Ke; YOSHIDA, Masaki; KONDO, Mio; MASAOKA, Shigeyuki

- 4B5-17** Synthesis, Structures and Magnetic Properties of Mn(III) Salen-Type Complexes Composed of Carboxylate Ligands with Nucleic-Acid Base Moieties. (Tohoku Univ.) OHKE, Yoshie; ZHANG, Wei-xiong; KATOH, Keiichi; BRIAN, k. Breedlove; TAKAISHI, Shinya; YAMASHITA, Masahiro

- 4B5-18\*** Investigation of lanthanide ion size recognition mechanism by oxygen-nitrogen hetero donor ligand PTA, and development of novel lanthanide separation method (JAEA) KOBAYASHI, Tohru; SUZUKI, Shinichi; SHIWAKU, Hideaki; OKAMOTO, Yoshihiro; YAITA, Tsuyoshi

### Monday, March 25, PM

Chair: TAKAISHI, Shinya (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(4B5-28, 4B5-29, 4B5-30, 4B5-31, 4B5-32, 4B5-33)

- 4B5-28** Design and evaluation of acidic coordination space for proton conduction (Kyoto Univ.) HAGI, Keisuke; HORIKE, Satoshi; UMEYAMA, Daiki; KITAGAWA, Susumu

- 4B5-29** Fabrication of crystalline nanofilm of 2D Hofmann-type porous coordination polymer and gas adsorption behavior confirmed by in situ XRD (Kyoto Univ.) SAKAIDA, Shun; OTSUBO, Kazuya; SAKATA, Osami; FUJIWARA, Akihiko; KITAGAWA, Hiroshi

- 4B5-30** Novel intercalation host system based on transition metal-chloranilate

assembled compounds (Fukuoka Univ.) HIMEGI, Akiko; NISHIMURA, Yuji; FUYUHIRO, Akira; HAYAMI, Sinya; KAWATA, Satoshi

**4B5-31** Synthesis of chiral MOF using 2,2'-dihydroxy-1,1'-binaphthalene-5,5'-dibenzoic acid as a ligand and its X-ray crystal structure (Kansai Univ.; Polish Academy of Sciences) YANAMOTO, Daisuke; TANAKA, Koichi; LIPKOWSKA, Zofia

**4B5-32** Synthesis and crystal structures of two-dimensional porous Zn complexes with pyridine derivatives as monodentate ligands (Research Institute for Electronic Science, Hokkaido Univ.; Research Institute for Electronic Science, Hokkaido Univ.) HASEGAWA, Kei; NORO, Shin-ichiro; KUBO, Kazuya; NAKAMURA, Takayoshi

**4B5-33** synthesis of polynuclear iron complexes from Hbypyz (Fac. Sci., Fukuoka Univ.) KATSUTA, Nagisa; FURUSHOU, Midori; MISHIMA, Akio; WASHIZAKI, Tsubasa; FUYUHIRO, Akira; HAYAMI, Shinya; KAWATA, Satoshi

## Room B6

CO-LEARNING HOUSE II 804

### Coordination Chemistry, Organometallic Chemistry

Friday, March 22, AM

#### Co

Chair: MIYAKE, Yoshihiro (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(1B6-01, 1B6-02, 1B6-03, 1B6-04, 1B6-05, 1B6-06)

**1B6-01** Synthesis and reaction of cobalt complexes with NCN tridentate ligand (Univ. of Nagoya; Graduate School of Engineering) HOSOKAWA, Satomi; HIRAKAWA, Atsushi; ITO, Jun-ich; NISHIYAMA, Hisao

**1B6-02** Synthesis and Reactivity of Cobalt Complexes Containing Pincer-type Bis(pyrazolyl)pyridine Ligand (Graduate School of Science and Engineering, Tokyo Institute of Technology) UMEHARA, Kazuki; KUWATA, Shigeki; IKARIYA, Takao

**1B6-03** Reductive Cleavage of Nitrogen-nitrogen Single and Double Bonds by Low Valent Tantalum Species (Graduate School of Engineering Science, Osaka University) SAITO, Teruhiko; TSURUGI, Hayato; MASHIMA, Kazushi

#### W

**1B6-04** Synthesis of Low-valent (Imido)tungsten Complexes Generated by Reduction of (ArN=)WCl<sub>4</sub> with Bis(trimethylsilyl)cyclohexadiene Derivatives (Graduate School of Engineering Science, Osaka University) TANAHASHI, Hiromasa; FEGLER, Waldemar; TSURUGI, Hayato; OKUDA, Jun; MASHIMA, Kazushi

**1B6-05** Substituent and Solvent Effects on the Reactions of Acetylido-Silylene Tungsten Complexes with Acetone (Tohoku University, Graduate School of Science) NAKAGAWA, Keita; KWON, Eunsang; TOYOTA, Koza; SAKABA, Hiroyuki

**1B6-06** Synthesis of a tungsten dinuclear complex having a W-Ge-W-Ge four-membered-ring framework (Department of Chemistry, Graduate School of Science, Tohoku Univ.) FUKUDA, Tetsuya; HASHIMOTO, Hisako; TOBITA, Hiromi

#### Mo

Chair: ITO, Junichi (10 : 10 ~ 11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(1B6-08, 1B6-09, 1B6-11, 1B6-13)

**1B6-08** Dehalogenation of Alkyl Halides Catalyzed by Dimolybdenum Paddlewheel Complexes Having Acetate and Amidinate Ligands (Graduate School of Engineering Science, Osaka University) HAYAKAWA, Akio; SUGINO, Yoshitaka; TSURUGI, Hayato; MASHIMA, Kazushi

**1B6-09\*** Synthesis and Catalytic Activity of Molybdenum-Nitrido Complexes Bearing PNP Ligand (School of Engineering, The Univ. of Tokyo) ARASHIBA, Kazuya; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki

**1B6-11\*** Unique Reactivity of Molybdenum-Nitride Complexes Bearing Ferrocenyldiphosphine (School of Engineering, The University of Tokyo) MIYAZAKI, Takamasa; TANABE, Yoshiaki; YUKI, Masahiro; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki

**1B6-13** Reactions of an ( $\eta^3$ - $\alpha$ -Silabenzyl)molybdenum Complex with Alkenes (Grad. Sch. Sci., Tohoku Univ.) KANNO, Yuto; KOMURO, Takashi; TOBITA, Hiromi

#### Ta

Chair: HASHIMOTO, Hisako (11 : 20 ~ 12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(1B6-15, 1B6-16, 1B6-17,

1B6-18, 1B6-19, 1B6-20)

**1B6-15** Synthesis and Reactivity of Methoxy-bridged Dinuclear Tantalum Complexes Having Dimetallacycle Framework (Graduate School of Engineering Science, Osaka University) YAMAMOTO, Keishi; TSURUGI, Hayato; MASHIMA, Kazushi

#### Nb

**1B6-16** Synthesis of Niobium Complexes Bearing an [OSO]-type Bis(pheno-lato) Ligand and the Reactivity with Terminal Acetylenes (Saitama Univ.) AN, Jing; TODA, Tomoyuki; NAKATA, Norio; ISHII, Akihiko

**1B6-17** Catalytic Hydrodehalogenation Reaction Catalyzed by Tantalum and Niobium Complexes with  $\alpha$ -Diimine Ligands (Graduate School of Engineering Science, Osaka University) NISHIYAMA, Hruka; SAITO, Teruhiko; TSURUGI, Hayato; MASHIMA, Kazushi

#### Hf

**1B6-18** C-H Bond Activation Reaction Mediated by Group 4 Metal Complexes Bearing Amine-Imine Ligands (Graduate School of Engineering Science, Osaka Univ.) KONDO, Ai; TSURUGI, Hayato; MASHIMA, Kazushi

#### Cr

**1B6-19** Synthesis and Application Phosphine-Olefin Ligands Having Planar-Chiral ( $\eta^6$ -Arene)chromium Framework (Catalysis Research Center, Hokkaido Univ.; Osaka Prefecture Univ.) KAMIKAWA, Ken; NAKAYA, Takeshi; MORITA, Tomotaka; TSENG, Ya-yi; ARAE, Sachie; WU, Wei-yi; TAKAHASHI, Tamotsu; OGASAWARA, Masamichi

#### Mn

**1B6-20\*** Manganese-Catalyzed Dimerization of 2-Hydroxyanthracenes (Catalysis Research Center, Hokkaido Univ.) ZHANG, Sicheng; SONG, Zhiyi; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu

Friday, March 22, PM

Chair: HOU, Zhaomin (13 : 30 ~ 14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(1B6-28, 1B6-32, 1B6-33)

**1B6-28 CSJ Award for Technical Development** Development and Commercialization of Polypropylene with Low Isotacticity (Idemitsu Kosan Co.,Ltd.) Minami, Yutaka; Takebe, Tomoaki; Kanamaru, Masami; Okamoto, Takuji

#### Pd

**1B6-32** Palladium-Catalyzed Alternating Copolymerization of Dibromofluorene and Tetrafluorobenzene: A Highly Efficient Catalyst for Direct Arylation Polymerization (DARp) (Institute for Chemical Research, Kyoto Univ.) WAKIOKA, Masayuki; KITANO, Yutaro; OZAWA, Fumiyouki

**1B6-33** Direct Arylation Polymerization (DARp) of Thiophene Derivatives Promoted by Highly Efficient Palladium Catalysts (Institute for Chemical Research, Kyoto Univ.) WAKIOKA, Masayuki; KITANO, Yutaro; OZAWA, Fumiyouki

#### Sc

Chair: WAKIOKA, Masayuki (14 : 40 ~ 15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(1B6-35, 1B6-36, 1B6-37, 1B6-38, 1B6-39, 1B6-40)

**1B6-35\*** Half-sandwich Scandium Boryl Complexes: Synthesis, Structure and Reactivity (RIKEN) WANG, Baoli; NISHIURA, Masayoshi; HOU, Zhaomin

#### Zn

**1B6-36** Reaction of bis(iodozincio)methane with amides (Kyoto Univ.) KATAYAMA, Haruo; MATSUBARA, Seijiro

#### Sm

**1B6-37** Development of Chemoselective Deprotection Method Using Samarium(II) Dibromide (Akita National College of Tech.) SUZUKI, Junya; SUZUKI, Shoko; YOKOYAMA, Yasuo

#### Y

**1B6-38** Regioselective Insertion of Carbon-nitrogen Double Bond into Yttrium  $\pi$ -allenyl Complexes (Graduate School of Engineering Science, Osaka University) NAGAE, Haruki; SHIBATA, Yu; TSURUGI, Hayato; MASHIMA, Kazushi

## Zn

- 1B6-39** Construction of porous metal-organic frameworks based on cyclic molecules involving preorganized acetylenes. (Graduate School of Engineering, Osaka University) YASUMIYA, Daisuke; SHIGEMITSU, Hajime; HISAKI, Ichiro; TOHNAI, Norimitsu; MIYATA, Mikiji

## Al

- 1B6-40** C-H Metallation Reaction of Diarylamine and Carbazole Mediated by Heteroatom-bridged Dinuclear Aluminum Complexes (Graduate School of Engineering Science, Osaka University) SHIBATA, Yu; YAMAMOTO, Koji; KASHIWA, Yuki; KONDO, Ai; TSURUGI, Hayato; MASHIMA, Kazushi

## Fe

Chair: TSURUGI, Hayato (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(1B6-42, 1B6-43, 1B6-44, 1B6-45, 1B6-46, 1B6-47)
- 1B6-42** Synthesis of Iron Complex Bearing Protic and Tetradentate Tris (pyrazole)-type Chelate Ligand (Graduate School of Science and Engineering, Tokyo Institute of Technology) NABEYA, Shohei; KUWATA, Shigeki; IKARIYA, Takao
- 1B6-43** The Structures of Linear and Cyclic Oligomers synthesized from Copolymerization of Ferrocene and Aldehydes (Tokyo Inst. of Tech., Chem. Res. Lab.) YOSHIGOE, Yusuke; SUZAKI, Yuij; OSAKADA, Kohtaro
- 1B6-44\*** Aryl Group Migration from Fe to P Atom on Mesityl[bis(phosphoethenyl)pyridine]iron(I) Complex (Institute for Chemical Research, Kyoto Univ.) LIN, Ya-fan; NAKAJIMA, Yumiko; OZAWA, Fumiyuki
- 1B6-45** Reactions of a Thiolate-Bridged Diiron Complex with Terminal Alkynes Followed by Rearrangement (Osaka City University) KOBAYASHI, Kyohei; HIROTSU, Masakazu; KINOSHITA, Isamu
- 1B6-46** Reactions of the silyliron complexes with aluminum trichloride (Graduate School of Engineering, Gunma University) ENOMOTO, Tatsunari; MURAOKA, Takako; UENO, Keiji
- 1B6-47** Synthesis of novel iron complexes by deprotonation of diene-iron complexes (Kyushu Institute of Technology) WATANABE, Kenta; UTO, Takahiro; INADOME, Masato; KITAMURA, Mitsuru; OKAUCHI, Tatsuo

Chair: KUWATA, Shigeki (17 : 00~18 : 00)

- \* 16:50-17:00: interval for laptop PC connection.(1B6-49, 1B6-50, 1B6-51, 1B6-52, 1B6-54)
- 1B6-49** Development of reactive iron carbonyl complex which shows signs of coordinative unsaturation (IMCE, Kyushu Univ.) SUNADA, Yusuke; NAGASHIMA, Hideo
- 1B6-50** Development of highly reactive iron carbonyl catalyst and its application to catalytic hydrosilylation (Institute for Materials Chemistry and Engineering, Kyushu Univ.) TSUTSUMI, Hironori; SUNADA, Yusuke; NAGASHIMA, Hideo
- 1B6-51** Iron-catalyzed transformation of molecular dinitrogen under ambient conditions (School of Engineering, Univ. of Tokyo; Institute for Materials Chemistry and Engineering, Kyushu Univ.) YUKI, Masahiro; TANAKA, Hiromasa; SASAKI, Kouitsu; MIYAKE, Yoshihiro; YOSHIZAWA, Kazunari; NISHIBAYASHI, Yoshiaki
- 1B6-52\*** Theoretical study on iron-catalyzed transformation of molecular dinitrogen (Institute for Materials Chemistry and Engineering, Kyushu Univ.; School of Engineering, The University of Tokyo) TANAKA, Hiromasa; YUKI, Masahiro; SASAKI, Kouitsu; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki; YOSHIZAWA, Kazunari
- 1B6-54** Dinitrogen Activation Mediated by an Iron Complex of 1,1'-Bis(arylamido)vanadocene (Tokyo Tech.) HATANAKA, Tsubasa; KAWAGUCHI, Hiroyuki

## Saturday, March 23, PM

## Rh

Chair: KAYAKI, Yoshihito (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(2B6-28, 2B6-29, 2B6-30, 2B6-32, 2B6-33)
- 2B6-28** Synthesis of  $L_2M_2$  (M = Rh, Ir, Ru) complexes with two calixarene ligands (Faculty of Science and Engineering, Chuo Univ.) YAMAZAKI, Takuya; KODAMA, Shintaro; MUTOH, Yuichiro; ISHII, Youichi
- 2B6-29** 1,4-Migration of the metal center at a Rh(III) complex (Faculty of Science and Engineering, Chuo University) IKEDA, Yousuke; KODAMA, Shintaro; ISHII, Youichi
- 2B6-30\*** Si-E (E = C and O) Bond Activation Induced by Hydrides of Rhodium and Iridium (Osaka City University) KAMEO, Hajime; ISHII, Sho; NAKAZAWA, Hiroshi

## Ir

- 2B6-32** Synthesis, Structure, and Reactivity of a 14-Electron Iridium Complex Having a Bis(silyl) Chelate Ligand (Grad. Sch. Sci., Tohoku Univ.)

FURUYAMA, Keisuke; KOMURO, Takashi; TOBITA, Hiromi

- 2B6-33** Stereoselective Preparation of an Iridium(III) Silyl Alkenyl Complex Derived from a Secondary Silane (Department of Chemistry, Faculty of Science, Nara Women's University) SAKANO, Nozomi; TSUBAKIMOTO, Aya; URA, Yasuyuki; KATAOKA, Yasutaka

Chair: KATAOKA, Yasutaka (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(2B6-35, 2B6-37, 2B6-38, 2B6-40)
- 2B6-35\*** Highly efficient and selective  $D_2$  generation and transfer deuteration with  $HCOOH/D_2O$  catalyzed by Ir complexes (AIST) WANG, Wanhui; HIMEDA, Yuichiro; HULL, Jonathan F.; MUCKERMAN, James T.; FUJITA, Etsuko
- 2B6-37** Synthesis and Reactions of Iridium(I) Complexes with a Non-innocent PNP Pincer-Type Phosphaalkene Ligand (Institute for Chemical Research, Kyoto Univ.) CHANG, Yung-hung; NAKAJIMA, Yumiko; OZAWA, Fumiyuki
- 2B6-38\*** Sequential Oxidation/C-H Silylation Reactions of Benzyl Alcohols Catalyzed by Iridium Complexes with Perimidine-based Carbene Ligands (Graduate School of Engineering Science, Osaka University) CHOI, Gyeongshin; TSURUGI, Hayato; MASHIMA, Kazushi
- 2B6-40** Synthesis and Reactivity of Iridium Complexes Bearing 6-membered Chelate Pyrazole Ligand (Graduate School of Science and Engineering, Tokyo Institute of Technology) KASHIWAME, Yohei; KUWATA, Shigeki; IKARIYA, Takao

Chair: NAKAJIMA, Yumiko (15 : 50~17 : 10)

- \* 15:40-15:50: interval for laptop PC connection.(2B6-42, 2B6-43, 2B6-44, 2B6-46, 2B6-48, 2B6-49)
- 2B6-42** Reactivities of a dinuclear  $Cp^*Ir$  complex with a C-S chelate ligand (Graduate School of Science and Engineering, Tokyo Inst. of Tech.) YAMAMOTO, Naoki; SATO, Yasuhiro; KAYAKI, Yoshihito; IKARIYA, Takao
- 2B6-43** Alkoxy-methylation of Electron-deficient Alkenes by Photoredox Catalysis. (Chem. Res. Lab., Tokyo Tech) MIYAZAWA, Kazuki; YASU, Yusuke; KOIKE, Takashi; AKITA, Munetaka
- 2B6-44\*** Regioselective Trifluoromethylation of Alkenes Using Photoredox Catalysts (Chem. Res. Lab., Tokyo Tech) YASU, Yusuke; KOIKE, Takashi; AKITA, Munetaka
- 2B6-46\*** Direct C-H Borylation of Arenes Catalyzed by Iridium Complexes on Crystal-like Bipyridine-bridged Periodic Mesoporous Organosilica (Toyota Central R&D Labs., Inc.; JST/ACT-C) MAEGAWA, Yoshifumi; INAGAKI, Shinji

## Zr

- 2B6-48** Synthesis of Group 4 transition metal Complexes with an [OSSO]-Type Bis(phenolato) Ligand Bearing a Cyclononane Ring and 1-Hexene Polymerization. (Saitama Univ.) IKUMA, Keita; NAKATA, Norio; ISHII, Akihiko

## Hf

- 2B6-49** Synthesis of Hafnium Complexes Having Silyl-Substituted [OSSO]-type Ligands and Olefin Polymerization (Saitama Univ.) KAWAUCHI, Fumihiko; TODA, Tomoyuki; NAKATA, Norio; ISHII, Akihiko

## Sunday, March 24, AM

## Ni

Chair: INAGAKI, Akiko (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3B6-01, 3B6-02, 3B6-03, 3B6-04, 3B6-05, 3B6-06)
- 3B6-01** Synthesis, Structures and Catalytic Applications of a Series of Nickel (I) Complexes Bearing bulky N-Heterocyclic Carbene (Fukuoka University, Faculty of Science) FUKAHORI, Yukino; KOGA, Yuji; MATSUBARA, Kouki

## Pd

- 3B6-02** Cyclization of Alkynoic Acids in Water with A Self-Assembled Vesicular Catalyst Self-Assembled by An Amphiphilic Pincer Palladium Complex (Institute for Molecular Science; JST-CREST) HAMASAKA, Go; UOZUMI, Yasuhiro
- 3B6-03** A novel synthetic method of dibenzoxaborins (Tokyo Med. & Dent. Univ.) HARADA, Ryu; SUMIDA, Yuto; HOSOYA, Takamitsu
- 3B6-04** Reactions of Hydrido(dihydrogermyl) Group 10 Metal Complexes with Tris(pentafluorophenyl)borane (Saitama Univ.) SEKIZAWA, Noriko; NAKATA, Norio; ISHII, Akihiko
- 3B6-05** Synthesis and structure of bidentate pyridylidene palladium complex (Grad Sch Sci, Nagoya Univ; WPI-ITbM, Nagoya Univ) YOSHIDOMI, Tetsushi; SEGAWA, Yasutomo; ITAMI, Kenichiro
- 3B6-06** Reaction of Mono(phosphine)palladium(0) Complexes Having High Catalytic Hydrometallation Activity with Dimethyl Fumarate (Tokyo Univ.)

of A & T) ITO, Ryo; KOMINE, Nobuyuki; HIRANO, Masafumi; KOMIYA, Sanshiro

Chair: OOHASHI, Masato (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3B6-08, 3B6-09, 3B6-10, 3B6-11, 3B6-12, 3B6-13)
- 3B6-08** Group 10 Metal-Catalyzed Reaction of 2-Hydroxybenzyl Sulfide Derivatives with DMAD Accompanying C(sp<sup>3</sup>)-S Bond Cleavage (Saitama Univ.) SAITO, Yusuke; KOBAYASHI, Hiroki; HURUKAWA, Noriyuki; NAKATA, Norio; ISHII, Akihiko
- 3B6-09** Unique Ligand Effects on Direct Arylation Polymerization (DARp) of 2-Bromo-3-hexylthiophene (Institute for Chemical Research, Kyoto Univ.) TAKETANI, Tomoyoshi; WAKIOKA, Masayuki; OZAWA, Fumiyuki
- 3B6-10** Preparation of dinuclear Pd or Pt complexes with bridging silylene ligands and their reactivity of unsaturated compounds (Chem. Res. Lab.; Tokyo Tech.) KANEKO, Akira; SAKAI, Masaru; TANABE, Makoto; OSAKADA, Kohtaro
- 3B6-11** Preparation and Molecular Structure of Palladium Dinuclear Complex with Bridging Germylene Ligand (Chem.Res. Lab.; Tokyo Tech) OMI, Shumpei; TANABE, Makoto; OSAKADA, Kohtaro
- 3B6-12** Selective formation of acyclic and cyclic polysilanes promoted by group 10 transition metal intermediates (Chem. Res. Lab; Tokyo Tech.) TAKAHASHI, Atsushi; TANABE, Makoto; OSAKADA, Kohtaro
- 3B6-13** X-ray snapshot observation of chemical reactions: structural transformation of the Pd(II) catalyst in aromatic brominations (School of Engineering, The Univ. of Tokyo) IKEMOTO, Koki; INOKUMA, Yasuhide; FUJITA, Makoto

Chair: TANABE, Makoto (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(3B6-15, 3B6-16, 3B6-17, 3B6-18, 3B6-19, 3B6-20)
- 3B6-15** C-F Bond Activation of Fluoroalkenes on Pd(0) (Faculty of Engineering, Osaka University) SAITO, Hiroaki; OHASHI, Masato; OGOSHI, Sensuke
- 3B6-16** Theoretical Studies of the Photocatalytic Dimerization of Styrenes by Dinuclear Ruthenium-Palladium Complex : Effects of Excited-State Electronic Structures on the Photoacceleration (Tokyo Institute of Technology, Chemical Resources Laboratory; JST-PRESTO; Tokyo Metropolitan University, Grad. School of Science and Engineering; University of Rennes 1) MURATA, Kei; COSTUAS, Karine; HALET, Jean-francois; INAGAKI, Akiko; AKITA, Munetaka
- 3B6-17** Photocatalytic reactions of Olefins using Pd complex containing bichromophoric moiety which composed of a Ir cyclometalate and a naphthyl unit (Tokyo Institute of Technology; ChemicalResources Laboratory, JST PRESTO, Tokyo MetropolitanUniversity; Grad. School of Science & Engineering) SAITO, Kazuma; MURATA, Kei; INAGAKI, Akiko; AKITA, Munetaka
- 3B6-18** Reactivity of Pd(II) Complexes Bearing Bowl-shaped N-Heterocyclic Carbene Ligands (Tokyo Institute of Technology) HASHIMOTO, Maki; SASE, Shohei; GOTO, Kei
- 3B6-19** Regioselective C-F Bond Activation of Hexafluoropropylene on Pd(0). (Faculty of Engineering, Osaka University) SHIBATA, Mitsutoshi; OHASHI, Masato; OGOSHI, Sensuke
- 3B6-20** Palladium-Catalyzed Coupling Reaction of Perfluoroarenes with Diarylzinc Reagents Promoted by Addition of Lithium Iodide and its Mechanistic Study (Graduate School of Engineering, Osaka University) DOI, Ryohei; OHASHI, Masato; OGOSHI, Sensuke

## Sunday, March 24, PM

### Pd

Chair: HIRANO, Masafumi (13 : 30~14 : 40)

- \* 13:20-13:30: interval for laptop PC connection.(3B6-28, 3B6-29, 3B6-30, 3B6-32, 3B6-34)
- 3B6-28** Kinetic Isotope Effects on Direct Arylation of 2-Methylthiophene with Arylpalladium Acetate Complexes (Institute for Chemical Research, Kyoto Univ.) NAKAMURA, Yuki; HIHARA, Yoshihiro; WAKIOKA, Masayuki; OZAWA, Fumiyuki; SAKAKI, Shigeyoshi
- 3B6-29** Mechanism of Direct Arylation of Benzothiazole with Arylpalladium Acetate Complexes (Institute for Chemical Research, Kyoto Univ.) HIHARA, Yoshihiro; NAKAMURA, Yuki; WAKIOKA, Masayuki; OZAWA, Fumiyuki; SAKAKI, Shigeyoshi
- 3B6-30\*** Synthesis and Structures of Linear Octanuclear Palladium Complexes with Axial Anionic Ligands (Nara Women's Univ.) NAKAMAE, Kanako; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki
- 3B6-32\*** Coordination Modes of Heteroarene Ligands on Mono- or Dinuclear Palladium Centers (Institute for Molecular Science) YAMAMOTO, Koji; KIMURA, Seita; OGOSHI, Sensuke; MURAHASHI, Tetsuro
- 3B6-34** Preparations of Metal Complexes having a Bis(carbene)pyridine Ligand (Nagasaki Univ.) OGUSHI, Shinji; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke

Chair: NAKAJIMA, Yumiko (14 : 50~16 : 10)

- \* 14:40-14:50: interval for laptop PC connection.(3B6-36, 3B6-38, 3B6-39,

3B6-40, 3B6-41, 3B6-42, 3B6-43)

- 3B6-36\*** C-C and C-N Bond-Forming Cross-Coupling Reaction using Organosilicon Reagents (Graduate School of Science and Engineering, Chuo Univ.) SHIMIZU, Kenta; MINAMI, Yasunori; NAKAO, Yoshiaki; HIYAMA, Tamejiro
- 3B6-38** Synthesis of bis-cyclooctatetraene Pd<sub>3</sub> sandwich complexes and arene-cyclooctatetraene Pd<sub>3</sub> sandwich complexes. (Graduate School of Engineering, Osaka University; Institute for Molecular Science; PRESTO-JST) KIMURA, Seita; TAKASE, Kohei; OGOSHI, Sensuke; MURAHASHI, Tetsuro
- 3B6-39** Linear Tetranuclear Palladium Complexes Supported by Tetraphosphine Ligands with Electron-Withdrawing Groups. (Nara Women's Univ.) HATADA, Satoko; NAKAMAE, Kanako; MOCHIZUKI, Ayaka; KURE, Bunsho; NAKAJIMA, Takayuki; TANASE, Tomoaki
- 3B6-40** Synthesis and Reaction of Palladium and Platinum Complexes with a Redox Active 2,6-Bis(pyrrol-2-yl)pyridine Ligand (Tokyo Univ. of A & T; Indiana Univ.) KOMINE, Nobuyuki; SUDA, Hiromi; HIRANO, Masafumi; KOMIYA, Sanshiro; CAULTON, KENNETH G.

### Fe

- 3B6-41** Activation of carbon-hydrogen bonds of tertiary amines by an ethynyl cation on the tetrairon core (Graduate School of Science and Technology, Hirosaki Univ.) NISHIYA, Masakazu; OKAZAKI, Masaaki
- 3B6-42** Activation of isocyanides by ethynylation on the tetrairon core (Graduate School of Science and Technology, Hirosaki Univ.) TANIWAKI, Wataru; OKAZAKI, Masaaki
- 3B6-43** Reactions of Coordinatively Unsaturated Iron Alkyl Complexes with Boranes (Department of Chemistry, Faculty of Science and Graduate School of Science, Tohoku Univ.) TAKAHASHI, Hirotsugu; WATANABE, Takahito; TOBITA, Hiromi

### Si, Ge, Sn, Pb

Chair: IWAMOTO, Takeaki (16 : 20~17 : 20)

- \* 16:10-16:20: interval for laptop PC connection.(3B6-45, 3B6-47, 3B6-48, 3B6-49, 3B6-50)
- 3B6-45\*** Pyrimidanes: Synthesis and Structure (Univ. of Tsukuba) ITO, Yuki; LEE, Vladimir Ya.; SEKIGUCHI, Akira
- 3B6-47** Synthesis and study of the pyrimidine derivatives of the heavier group 14 elements (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) MEGURO, Takahiko; ITO, Yuki; LEE, Vladimir; SEKIGUCHI, Akira
- 3B6-48** Oxygen Atom Transfer Reactions of Germanone (Kinki Univ.) MATSUO, Tsukasa; HORITA, Tomomi; LI, Liangchun; HASHIZUME, Daisuke; TAMAO, Kohei; FUENO, Hiroyuki; TANAKA, Kazuyoshi
- 3B6-49** Synthesis and Reactivity of Base-Stabilized Dichlorogermanethiones (Grad. Sch. Sci., Tohoku Univ.) WATANABE, Takahito; ONODERA, Hiroyuki; TOBITA, Hiromi
- 3B6-50** Synthesis and Reactions of Novel Plumbacyclopentadienyldenes Stabilized by Lewis Bases (Department of Chemistry, Graduate School of Science and Engineering, Saitama University) AKIBA, Tomoki; SAITO, Masaichi

Chair: KAWACHI, Atsushi (17 : 30~18 : 30)

- \* 17:20-17:30: interval for laptop PC connection.(3B6-52, 3B6-53, 3B6-54, 3B6-55, 3B6-57)
- 3B6-52** Synthesis, Structure and Reactivity of B-Fluorodisilyl Anion as a Disilenoid (Univ. of Tsukuba) FURUYA, Takumi; ICHINOHE, Masaaki; SEKIGUCHI, Akira
- 3B6-53** Paradigmermaquinodimethane: Synthesis, Structure and Properties (Univ. of Tsukuba) YOTSUYANAGI, Hiroko; ICHINOHE, Masaaki; SEKIGUCHI, Akira
- 3B6-54** Terminal functionalization of oligogermanes by using cyclic transition metal complexes (Chem. Res. Lab., Tokyo Tech.) TANABE, Makoto; DEGUCHI, Takashi; TAKAHASHI, Atsushi; OSAKADA, Kohtaro
- 3B6-55\*** Synthesis of Transition-metal Complexes Derived from a Novel Dilithiostannole Having Silyl Substituents (Department of Chemistry, Graduate School of Science and Engineering, Saitama University; Fukui Institute for Fundamental Chemistry, Kyoto University) KUWABARA, Takuya; SAITO, Masaichi; GUO, Jing-dong; NAGASE, Shigeru
- 3B6-57** Synthesis and Structure of the Titanium Germylene Complexes (Univ. of Tsukuba) SAKAI, Ryo; LEE, Vladimir Ya.; SEKIGUCHI, Akira

## Monday, March 25, AM

### Ru

Chair: KUWATA, Shigeki (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4B6-01, 4B6-02, 4B6-03, 4B6-04, 4B6-05)
- 4B6-01** Synthesis of Pincer Ru-Complex-Bound Norvaline Catalysts and Oxidation of Alcohols with Hydrogen Peroxide (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) YOKOI, Tomoya; ISOZAKI, Katsuhiro; YOSHIDA, Ryota; OGATA, Kazuki; SASANO, Daisuke; SEIKE, Hirofumi; TAKAYA, Hikaru; NAKAMURA, Masaharu

- 4B6-02** Synthesis and Characterization of Pincer Ru-Complex-Bound Norvaline Peptides (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) YOKOI, Tomoya; ISOZAKI, Katsuhiro; YOSHIDA, Ryota; OGATA, Kazuki; SASANO, Daisuke; SEIKE, Hirofumi; TAKAYA, Hikaru; NAKAMURA, Masaharu
- 4B6-03** Regioselectivity Control in Oxidative Coupling Reactions of Substituted Alkenes with Ruthenium(0) Complexes Bearing Conjugated Diene Ligands (Tokyo Univ. of A & T) UEDA, Takao; KOMINE, Nobuyuki; HIRANO, Masafumi; KOMIYA, Sanshiro
- 4B6-04** Oxidative Coupling Reaction of Coordinated Conjugate 1,3-Diene with Ketene at Ruthenium(0) Complex (Tokyo Univ. of A & T) OKAMOTO, Takuya; KOMINE, Nobuyuki; HIRANO, Masafumi; KOMIYA, Sanshiro
- 4B6-05\*** Synthesis of new Ru(0) complexes having a chiral diene ligand and their application to catalytic asymmetric cross linear-dimerization between methacrylate and substituted alkene (Tokyo Univ. of A & T) YUKI, Hiroi; KOMINE, Nobuyuki; HIRANO, Masafumi; KOMIYA, Sanshiro

Chair: ITAZAKI, Masumi (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(4B6-08, 4B6-10, 4B6-11, 4B6-12, 4B6-13)
- 4B6-08\*** Activation of benzene induced by triruthenium polyhydrido clusters (Graduate School of Science and Engineering, Tokyo Institute of Technology) TAHARA, Atsushi; TAKAO, Toshiro; SUZUKI, Hiroharu
- 4B6-10** Syntheses and properties of heterometallic clusters composed of group 9 metals and ruthenium (Tokyo Tech) NAGAOKA, Masahiro; TAKAO, Toshiro; SUZUKI, Hiroharu
- 4B6-11** Synthesis and Reactivity of Dinuclear Ruthenium Complexes Containing Dichlorostannylene and Chlorostannylyne Ligands (Dept. Chem., Osaka Prefecture Univ.) YAMANO, Takahiro; TAKEMOTO, Shin; MATSUZAKA, Hiroyuki
- 4B6-12** Synthesis and Reactivities of Dinuclear Ruthenium Complexes Containing Bridging Alkyl- and Silylamido Ligands (Dept. Chem., Osaka Prefecture Univ.) OSHIMO, Masaki; TAKEMOTO, Shin; MATSUZAKA, Hiroyuki
- 4B6-13** Synthesis of Ruthenium Tellurocarbonyl Complex with Cp Ligand (Faculty of Science and Engineering, Chuo Univ.) ARAI, Takahiro; IKENAGA, Kota; KOZONO, Naoki; MUTOH, Yuichiro; ISHII, Youichi

Chair: TAKEMOTO, Shin (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(4B6-15, 4B6-16, 4B6-17, 4B6-19, 4B6-20)
- 4B6-15** Synthesis of Multiproton-responsive Ruthenium Complex Bearing Pincer-type Bis(pyrazolyl)pyridine Ligand (Graduate School of Science and Engineering, Tokyo Institute of Technology) MASAI, Kohei; KUWATA, Shigeki; IKARIYA, Takao
- 4B6-16** Synthesis and Reactivity of Pincer-type Ruthenium Complex Bearing Pyrazole and Tertiary Amino Group (Graduate School of Science and Engineering, Tokyo Institute of Technology) TODA, Tatsuro; KUWATA, Shigeki; IKARIYA, Takao
- 4B6-17\*** Bifunctional Activation of Ammonia, Primary Amines, Hydrazine and Subsequent Metal-Mediated C-F Bond Cleavage to a New Family of Chiral Tridentate Ru and Ir-Catalysts (Graduate School of Science and Engineering, Tokyo Inst. of Tech) DUB, Pavel A.; IKARIYA, Takao
- 4B6-19** Asymmetric Transfer Hydrogenation of Aromatic Ketones Catalyzed by a New Family of Chiral Tridentate Ru and Ir-Complexes (Graduate School of Science and Engineering, Tokyo Inst. of Tech) MATSUNAMI, Asuka; DUB, Pavel A.; IKARIYA, Takao
- 4B6-20** Synthesis of Ruthenium(IV) Hydrido Complexes having Two Ferrocenylsilyl Ligands and Their Electrochemical Properties (Osaka City Univ.) ITAZAKI, Masumi; SHIGESATO, Yuka; MINAKATA, Makiko; ISHII, Sho; ICHIMURA, Akio; NAKAZAWA, Hiroshi

## Monday, March 25, PM

### Ru

Chair: YAMASHITA, Makoto (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(4B6-28, 4B6-29, 4B6-30, 4B6-31, 4B6-32, 4B6-33)
- 4B6-28** Synthesis and Reactivities of Ruthenium(IV) Complex Bearing Klauui's  $\kappa^3O$  Tripodal Ligand (Graduate School of Science and Engineering, Tokyo Institute of Technology) HORIUCHI, Junya; KUWATA, Shigeki; IKARIYA, Takao
- 4B6-29** Synthesis of Organometallic Molecular Wires with Metalloporphyrin Bridges (Tokyo Institute of Technology; Chemical Resources Laboratory) ONO, Masanori; MURAI, Masahito; KOIKE, Takashi; AKITA, Munetaka
- 4B6-30** Catalytic C-H bond activation using ruthenium  $\eta^6$ -arene complexes: synthesis of alkenes by dehydrative condensation of toluene and aldehydes (Fac. Sci., Osaka Pref. Univ.) SHIBATA, Eri; YUMOTO, Yoshihiro; TAKEMOTO, Shin; MATSUZAKA, Hiroyuki
- 4B6-31** Pincer Type Ruthenium Complex-Bound Norvaline-Catalyzed Oxidation of Electron-rich Aromatic Compounds with Hydrogen Peroxide (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) YOSHIDA, Ryota; ISOZAKI, Katsuhiro; YOKOI,

Tomoya; TAKAYA, Hikaru; NAKAMURA, Masaharu

- 4B6-32** Synthesis of 16-Electron Ruthenium-Phosphine Complexes Bearing a Bis(silyl) Chelate Ligand and Hydrosilylation Reactions Catalyzed by Them (Faculty of Science and Graduate School of Science, Tohoku University) KITANO, Takeo; MAGER, Nathalie; KOMURO, Takashi; TOBITA, Hiromi
- 4B6-33** Reactions of a Hydrido(silylene)ruthenium Complex with Nitriles: Formation of a Novel  $\eta^3$ -2-aza-1-silaallyl Complex from Benzonitrile (Grad. Sch. Sci., Tohoku Univ.) NISHIMURA, Kimiaki; HASHIMOTO, Hisako; TOBITA, Hiromi

Chair: TAKAYA, Hikaru (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(4B6-35, 4B6-36, 4B6-37, 4B6-38, 4B6-39, 4B6-40)
- 4B6-35** Formation of Unsaturated Oxaruthenacycle by Successive C-H Bond Cleavage Reaction of *ortho*-Ethyl Group : Formation and Reactivity (Tokyo Univ. of A & T) ENDIN, Mulyadi; KOMINE, Nobuyuki; HIRANO, Masafumi; KOMIYA, Sanshiro
- 4B6-36** Allylation with Allylic Alcohols Catalyzed by Ruthenium Hydrazone Complexes (Tokyo Institute of Technology, Graduate School of Science and Engineering) TAKAMI, Yoshie; KASHIWAME, Yohei; KUWATA, Shigeki; IKARIYA, Takao
- 4B6-37** Synthesis of novel trinuclear ruthenium complex having a bridging oxoboryl ligand by irradiation of light (Tokyo Tech) KANEKO, Takeshi; TAKAO, Toshiro; SUZUKI, Hiroharu
- 4B6-38** Syntheses and Reactivities of Ruthenium Complexes Bearing A PBP Pincer Ligand (Chuo Univ. Faculty of Science and Engineering) MIYADA, Takuma; YAMASHITA, Makoto

### Pt

- 4B6-39** Visible Light Enhanced Methyl Group Transfer Reaction in Heterodinuclear Dimethylaryl(bipyridine)platinum-Manganese Complexes (Tokyo Univ. of A & T) ODAGIRI, Tatsuya; KOMINE, Nobuyuki; HIRANO, Masafumi; KOMIYA, Sanshiro
- 4B6-40\*** Formation of a Thiocarboxylato-Bridged Pt-Mn Complex by Desulfurization of Thiiranes: Mechanism and Reactivity (Tokyo Univ. of A & T) ZAMORA, MATTHEW THOMAS; KOMINE, Nobuyuki; HIRANO, Masafumi; KOMIYA, Sanshiro

Chair: KUWATA, Shigeki (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(4B6-42, 4B6-43, 4B6-44, 4B6-45, 4B6-46, 4B6-47)
- 4B6-42** Syntheses of Photosensitizing Ir-Pt Dinuclear Complexes and Visible-Light Mediated Reductive Elimination Promoted by Photoinduced Electron Transfer (Tokyo Institute of Technology; Chemical Resources Laboratory, JST PRESTO, Tokyo Metropolitan University; Grad. School of Science & Engineering) SHIBA, Yuichiro; INAGAKI, Akiko; AKITA, Munetaka
- 4B6-43** Catalytic Hydrosilylation of Alkene Using Platinum Complexes Bearing a PBP Pincer Ligand (Chuo Univ. Faculty of Science and Engineering) OGAWA, Hayato; YAMASHITA, Makoto
- 4B6-44** Syntheses and Reactivities of C(0)-Bridged Heterometallic Complexes (Hiroshima University) OKITSU, Hiroyuki; KUBO, Kazuyuki; MIZUTA, Tsutomu
- 4B6-45** Synthesis of bimetallic cycle NHC-platinum(IV) complexes (Graduate School of Engineering and Environment Conservation Research Institute, Tohoku University) NAKABAYASHI, Ryo; SATO, Tetsuo; OI, Shuichi
- 4B6-46** Synthesis and Reactivity of Platinum Complexes Connected by a 1,1'-Ferrocenedichalcogenato Ligand (Osaka City Univ.) ITAZAKI, Masumi; ISEKI, Masato; ITO, Masaki; NAKAZAWA, Hiroshi

### Au

- 4B6-47** Synthesis of transition metal complexes having  $\sigma$ -electron acceptor germane ligand (Osaka City Univ.) KAMEO, Hajime; KAWAMOTO, Tatsuya; NAKAZAWA, Hiroshi

**Room C1**  
FOREST HOUSE F101

Material Chemistry

Friday, March 22, AM

Low Dimensional Materials

Chair: FUJIMORI, Toshihiko (9 : 10~10 : 00)

- \* 9:00-9:10: interval for laptop PC connection.(1C1-02, 1C1-03, 1C1-04, 1C1-05)
- 1C1-02** Attempt for preparation of B/C, C/N and B/C/N thin films having diamond-like structure (Osaka Electro-Communication University;

- Kawaguchi Laboratory.) TSUJIAI, Yoshiki; HIRAI, Tomohiro; KAWAGUCHI, Masayuki; OONO, Nobuhito; MURAMATSU, Yasuji
- 1C1-03** Indirect electrodeposition of titanium dioxide thin films from aqueous solution of titanium-lactic acid complex (Osaka Mun. Tech. Res. Inst.) CHIGANE, Masaya; SHINAGAWA, Tsutomu
- 1C1-04** Bendable Thermoelectric Nonwoven Fabrics Based on Bi<sub>2</sub>Te<sub>3</sub> Nanofibers (Nara Inst. Sci. Tech.) ASHIBA, Koji; NONOGUCHI, Yoshiyuki; KAWAI, Tsuyoshi
- 1C1-05\*** Fragmentation of Biodegradable Polymer Nanosheets and Patchwork Treatment for Burn Wounds (Tokai Univ.; Inst. of Innov. Sci. & Tech.) OKAMURA, Yosuke; KABATA, Koki; SAITO, Akihiro; KINOSHITA, Manabu; SAITOH, Daizoh; TAKEOKA, Shinji

Chair: CHIGANE, Masaya (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(1C1-08, 1C1-09, 1C1-10, 1C1-11, 1C1-13)
- 1C1-08** Observation of the adsorption of cesium ion in the interlayer space of Phlogopite by using TEM (Tokyo Metropolitan Univ.) YAMAMOTO, Takahiro; EYAMA, Takaaki; FUJIMURA, Takuya; SHIMADA, Tetsuya; TACHIBANA, Hiroshi; INOUE, Haruo; TAKAGI, Shinsuke
- 1C1-09** Synthesis of metalphthalocyanine nanoparticles with sulfanyl groups and their derivatives (Saitama University, Graduate School of Science and Engineering) ISEYA, Takahiro; FUKUDA, Takeshi; KAMATA, Norihiko; ISHIMARU, Yoshihiro
- 1C1-10** Properties of the metal phthalocyanine having trimethylsilylethynyl groups (Saitama University, Graduate School of Science and Engineering) TOJO, Ryosuke; ISHIMARU, Yoshihiro
- 1C1-11\*** Metallization of one dimensionally crystallized elemental sulfur (Shinshu Univ.; MSU; Nagasaki Univ.) FUJIMORI, Toshihiko; MORELOS-GOMEZ, Aaron; ZHU, Zhen; URITA, Koki; TERRONES, Mauricio; HAYASHI, Takuya; ENDO, Morinobu; TOMANEK, David; KANEKO, Katsumi
- 1C1-13** Fabrication of carbon nanotubes encapsulated with monodispersed iron nanoparticles in high density (Grad. Sch. Eng., Kyushu Univ.) SADA, Takao; FUJIGAYA, Tsuyohiko; NAKASHIMA, Naotoshi

Chair: FUJIGAYA, Tsuyohiko (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(1C1-15, 1C1-17, 1C1-18, 1C1-19)
- 1C1-15\*** Fabrication of semiconductor films for solar cells by using inkjet printing of quantum dots (Grad. Sch. Eng., Osaka Univ.) UEMATSU, Taro; KAJI, Yusuke; KUWABATA, Susumu
- 1C1-17** Tunable Shape and Energy Gap in ZnS-CuIn<sub>2</sub>S<sub>4</sub>-AgInS<sub>2</sub> Solid Solution Nanocrystals (Nagoya Univ.) DAI, Meilin; KAMEYAMA, Tatsuya; KUWABATA, Susumu; TORIMOTO, Tsukasa
- 1C1-18** Fluorescence Enhancement of Semiconductor Nanocrystals by Electric Field Enhancement Effect of Metal Nanoparticles (FIRST, Konan Univ.) YAMASHITA, Miho; KUMANO, Misato; TSURUOKA, Takaaki; NAWAFUNE, Hidemi; AKAMATSU, Kensuke
- 1C1-19\*** Gold Double Nanopillars with Gap Fabricated through Nanocoating Lithography and its Application to Plasmonic Sensor (RIKEN) KUBO, Wakana; TANAKA, Takuo

## Friday, March 22, PM

Chair: KOBIRO, Kazuya (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(1C1-28, 1C1-29, 1C1-31, 1C1-32)
- 1C1-28** Synthesis of polymer nanowires containing gold nanoparticles using porous alumina templates (FIRST, Konan Univ.) MATSUSHITA, Taro; FUKUMOTO, Yurina; KAWAKAMI, Takaya; TSURUOKA, Takaaki; NAWAHUNE, Hidemi; YANAGISHITA, Takashi; MASUDA, Hideki; AKAMATSU, Kensuke
- 1C1-29\*** Selective and facile preparation of gold nanoparticles and gold clusters with photofunctional benzene thiol derivatives. (Kagoshima Univ.) KURAWAKI, Junichi; OKAMURA, Hiroaki
- 1C1-31** Preparation of Copper fine particles from solid source-Study of a stirring system- (Graduate School of Engineering Hokkaido Univ.) UCHIDA, Yoshiki; TSUKAMOTO, Hiroki; YONEZAWA, Tetsu
- 1C1-32\*** High temperature in situ TEM Observation of Platinum Nanoparticles Prepared by Microwave-induced Plasma in Liquid Process (Graduate School of Engineering Hokkaido Univ.) ARAI, Shota; NARUSHIMA, Takashi; YONEZAWA, Tetsu

Chair: KURAWAKI, Junichi (14 : 40~15 : 30)

- \* 14:30-14:40: interval for laptop PC connection.(1C1-35, 1C1-36, 1C1-37, 1C1-38)
- 1C1-35** Preparation of Noble Metal Nanoparticles Templated by Gallium Nanoparticles through Transmetalation Reaction. (Graduate School of Chemical Sciences and Engineering, Hokkaido University) SUDO, Shinya; KOKADO, Kenta; SADA, Kazuki
- 1C1-36** Fabrication of L<sub>10</sub>-FePd/FeCo Nanocomposite Magnets (Univ. of Tsukuba; Kyoto Univ.) OBATA, Yoshie; SATO, Ryota; TERANISHI, Toshiharu
- 1C1-37** Fabrication of Exchange-Coupled L<sub>10</sub>-FePd/ $\alpha$ -Fe Nanocomposite

- Magnets with Aligned Easy Axis (Univ. of Tsukuba; Kyoto Univ.) OHSHIMA, Tsubasa; SATO, Ryota; TERANISHI, Toshiharu
- 1C1-38\*** Synthetic Strategy of Noble Metal-Free Fe-Co-O System Nanocomposite Magnets (Kyoto Univ.; Univ. of Tsukuba) SATO, Ryota; OBATA, Yoshie; OHSHIMA, Tsubasa; TERANISHI, Toshiharu

Chair: KAMEYAMA, Tatsuya (15 : 40~16 : 40)

- \* 15:30-15:40: interval for laptop PC connection.(1C1-41, 1C1-43, 1C1-45)
- 1C1-41\*** Synthesis of Novel Nanoparticulate Cocatalyst for Oxygen Evolution toward Photocatalytic Overall Water Splitting. (Univ. of Tsukuba, Univ. of Tokyo, Tokyo Institute of Technology, Kyoto Univ.) YOSHINAGA, Taizo; XIONG, Anke; IKEDA, Takahiro; MAEDA, Kazuhiko; DOMEN, Kazunari; TERANISHI, Toshiharu
- 1C1-43\*** Deposition of Sub-nanosized Metal Dot Arrays Prepared by Phenylazomethine Dendrimer (Chem. Res. Lab., Tokyo Ins Tech.) HIRANO, Isao; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 1C1-45\*\*** Versatility of One-pot, Single-step Synthetic Approach for Spherical Mesoporous (Metal) Oxide Nanoparticles Using Supercritical Alcohols (Kochi Univ. of Technology) WANG, Pengyu; UENO, Kimiyoshi; YOKOYAMA, Kazuya; KOBIRO, Kazuya

Chair: IMAOKA, Takane (16 : 50~17 : 30)

- \* 16:40-16:50: interval for laptop PC connection.(1C1-48, 1C1-50, 1C1-51)
- 1C1-48\*** Metallization of DNA hydrogel and application of metallized hydrogel in catalysis (Nagoya Univ., Graduate School of Environmental Studies) ZINCHENKO, Anatoly; MIWA, Yasuyuki; MURATA, Shizuaki
- 1C1-50** Preparation of Gallium Dispersion Gel by Using Surfactants (Department of Chemistry, Faculty of Science, Hokkaido University) OKA, Chihiro; SUDOH, Shinya; KOKADO, Kenta; SADA, Kazuki
- 1C1-51** Facile synthesis of cataionic cage-like octasilsesquioxanes containing two kinds of functional groups (Kagoshima Univ.; Hiroshima Univ.) SHOIRIKI, Miki; MIZUMO, Tomonobu; KANEKO, Yoshiro

## Glass and Amorphous Materials

Chair: SATO, Ryota (17 : 40~18 : 10)

- \* 17:30-17:40: interval for laptop PC connection.(1C1-53, 1C1-54, 1C1-55)
- 1C1-53** Incorporation of ions into glasses through a staining process and its application for chemical strengthening of glasses - Effect of glass composition (Kyoto Institute of Technology) MISAWA, Tomohiro; WAKASUGI, Takashi; SHIONO, Takeshi; KADONO, Kohei
- 1C1-54** Magnesium reduction of silica glass substrate (Kyoto Institute of Technology) KADONO, Kohei; TSUBOI, Yuki; URA, Shogo; SHIMATANI, Naoko; WAKASUGI, Takashi
- 1C1-55** Pore Growth of Porous Soda-Lime Silicate Glasses in Forming Processes (Suzuka Natl. Coll. Tech.) SONODA, Eri; WADA, Noriyuki; KOJIMA, Kazuo

## Saturday, March 23, AM

### Carbon Materials

Chair: HATTORI, Yoshiyuki (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2C1-01, 2C1-02, 2C1-03, 2C1-05)
- 2C1-01** Dispersion of multi-walled carbon nanotube using cationic ladder-like polysilsesquioxane (Kagoshima Univ.; Nippon Shokubai) ARAKE, Tomoyuki; SUGIOKA, Takuo; SUMIDA, Yasutaka; KANEKO, Yoshiro
- 2C1-02** Preparation and Characterization of n-type Single Walled Carbon Nanotube Buckypapers Doped with Lewis Bases (Nara Inst. Sci. Tech.) OHASHI, Kenji; ASHIBA, Koji; NONOGUCHI, Yoshiyuki; KAWAI, Tsuyoshi
- 2C1-03\*** Structural control of carbon nanotubes due to high magnetic fields: Orientation and chirality (Shinshu University) SAKAGUCHI, Ayumi; HAMASAKI, Atom; OZEKI, Sumio
- 2C1-05\*** Synthesis of Carbon Nanotubes and Other Functional Nanomaterials by One-Step Liquid-Phase Process and their Applications (Graduate School of Chem. Sci. and Tech., Tokyo Univ. of Sci.; Fac. of Eng., Tokyo Univ. of Sci.) YAMAGIWA, Kiyofumi; FUJIKAWA, Hiroki; AYATO, Yusuke; KUWANNO, Jun

Chair: KAWAI, Tsuyoshi (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(2C1-08, 2C1-10, 2C1-11, 2C1-12, 2C1-13)
- 2C1-08\*\*** Amplified Exfoliation of Graphite by Molecularly Engineered Ionic Liquids (1): High-speed Exfoliation (School of Engineering, The Univ. of Tokyo) MATSUMOTO, Michio; PARK, Chiyong; SAITO, Yusuke; AIDA, Takuzo
- 2C1-10\*** Amplified Exfoliation of Graphite by Molecularly Engineered Ionic Liquids (2): Structural Effects of Ionic Liquids on High-speed Exfoliation (School of Engineering, The Univ. of Tokyo) SAITO, Yusuke; PARK, Chiyong; MATSUMOTO, Michio; AIDA, Takuzo
- 2C1-11** Structural and physical properties of fluorinated graphene sheets (Shinshu University) NISHII, Yusuke; SAITO, Hikaru; KAWAKUBO, Shouhei; TOUHARA, Hidekazu; HATTORI, Yoshiyuki

- 2C1-12** Fluorination of the graphene papers and their electrochemical properties as an cathode material in lithium primary battery (Faculty of Textile Science and Technology, Shinshu University) MORI, Toshiyuki; TAKAGI, Eiichi; TANAKA, Toshihisa; TOUHARA, Hidekazu; HATTORI, Yoshiyuki
- 2C1-13** Semiconducting property of graphene by using various reduction (Kumamoto Univ.) TAKEHIRA, Hiroshi; HAYAMI, Shinya

Chair: KUWANO, Jun (11 : 20~12 : 10)

- \* 11:10-11:20: interval for laptop PC connection.(2C1-15, 2C1-16, 2C1-17, 2C1-18, 2C1-19)
- 2C1-15** Electrochemical intercalation of Na into graphite-like layered material BC<sub>2</sub>N as an anode of sodium ion batteries (Osaka Electro-Communication University; Kawaguchi Laboratory.) YAMADA, Kaoru; KAWAGUCHI, Masayuki
- 2C1-16** Fabrication and Facile Alignment of Fullerene Nanowhiskers Application as substrate for cell growth (Tokyo Univ. Sci., NIMS) KASUYA, Yuki; JI, Qingmin; MIYAZAWA, Kunichi; YAMAZAKI, Tomohiko; SAKAI, Hideki; ABE, Masahiko; ARIGA, Katsuhiko
- 2C1-17** Fabrication of nanodiamond particles by chemical modification for MRI contrast agents (Natl. Inst. of AIST; Keio Univ.; Toho Univ.; Tokai Univ.) NAKAMURA, Takako; OHANA, Tsuguyori; YABUNO, Hajime; KASAI, Rumiko; SUZUKI, Tetsuya; HASEBE, Terumitsu
- 2C1-18** Control of the pore structure in pillared carbons (Univ. of Hyogo) HAYASHIDA, Akihiro; MATSUO, Yoshiaki
- 2C1-19** Preparation of ZnO Films by Photocatalytic Reaction (Shinshu Univ.; Nagano Pref. Inst. Tech.) TAKIKAWA, Takumi; NAGAYA, Satoshi; NISHIKIORI, Hiromasa; TANAKA, Nobuaki; FUJII, Tsuneko

## Saturday, March 23, PM

### Inorganic Materials

Chair: MATSUMOTO, Kazuhiko (13 : 10~14 : 10)

- \* 13:00-13:10: interval for laptop PC connection.(2C1-26, 2C1-27, 2C1-28, 2C1-29, 2C1-30, 2C1-31)
- 2C1-26** Hollow Microspheres of Cu-Al mixed oxides. (Ehime University) TAKAHASHI, Ryoji; OGURO, Yuki; YAMADA, Ikuya; IRISAWA, Keia
- 2C1-27** Removal of Na guest atoms in type-II silicon clathrates by iodine treatment (Gifu Univ.) BAN, Takayuki; KIMURA, Yuka; OGURA, Takuya; GOTO, Kohei; HIMENO, Roto; OHASHI, Fumitaka; OHYA, Yutaka; KUME, Tetsuji; NONOMURA, Shuichi
- 2C1-28** Preparation of Mn<sup>2+</sup> doped zinc silicate phosphor powders by mechanochemical process (Osaka Prefecture University, Sharp Corp.) TADANAGA, Kiyoharu; TSUDA, Kousuke; TATSUMISAGO, Masahiro; OHSAKA, Tamotsu; OKI, Masahiko; TSUJIGUCHI, Masato; UTSUMI, Yoshihiko; KAKIMORI, Nobuaki
- 2C1-29** Crystalline Mechanism of Titania(anatase) Thin Film by Non-Aqueous Sol-Gel Method (National Institute of Advanced Industrial Science and Technology, Material Research Institute of Sustainable Development) HORIUUCHI, Tatsuro
- 2C1-30** Synthesis of Multifunctional Alkoxysiloxane Oligomer (Faculty of Science and Engineering, Waseda Univ.) YOSHIKAWA, Masashi; TAMAI, Misa; WAKABAYASHI, Ryutarō; KURODA, Kazuyuki
- 2C1-31** Preparation of porous β-MnO<sub>2</sub> by using size-controlled colloidal silica crystals as a template (Faculty of Science and Engineering, Waseda Univ.; Kagami Inst., Waseda Univ.) MATSUNO, Takamichi; SEKINE, Kaori; CHOI, Kwang-min; KURODA, Kazuyuki

Chair: HORIUUCHI, Tatsuro (14 : 20~15 : 10)

- \* 14:10-14:20: interval for laptop PC connection.(2C1-33, 2C1-34, 2C1-35, 2C1-37)
- 2C1-33** Fabrication of Copper Acetate Dendrites through Crystal Growth in a Polymer Matrix and Its Application to Templates for Patterning (Keio Univ.) MURAMATSU, Ryo; OAKI, Yuya; IMAI, Hiroaki
- 2C1-34** Synthesis of acetylene bridged polysilsesquioxane and application to Si-O-C ceramics (Hiroshima Univ.) YAMAMOTO, Kazuki; MIZUMO, Tomonobu; OSHITA, Joji; TURU, Toshinori
- 2C1-35\*** Chiral molecular aggregates and spin state control of iron(II) complexes with imidazole containing multidentate ligand depending on intermolecular hydrogen bonds and substituent effect (Kumamoto Univ.; Okayama Univ.) HAGIWARA, Hiroaki; MATSUMOTO, Naohide; SUNATSUKI, Yukinari
- 2C1-37** Catalytic activity of Platinum-Gallium bimetallic nanoparticles encapsulated in a dendrimer template. (Tokyo Institute of Technology, Chemical Resources Laboratory) NAKAHARA, Hidenori; IMAOKA, Takane; YAMAMOTO, Kimihisa

Chair: YAMAMOTO, Kimihisa (15 : 20~16 : 20)

- \* 15:10-15:20: interval for laptop PC connection.(2C1-39, 2C1-41, 2C1-43)
- 2C1-39\*** Synthesis of Nickel nanoparticles with excellent thermal stability in zeolite pores (Hiroshima Univ.; Institute for Sustainable Sciences and Development) INOKAWA, Hitoshi; MAEDA, Makoto; NISHIMOTO, Shunsuke; KAMESHIMA, Yoshikazu; MIYAKE, Michihiro; ICHIKAWA, Takayuki; KOJIMA, Yukitsugu; MIYAOKA, Hiroki

- 2C1-41\*** Composition-Dependent Photoelectrochemical Properties of Cu<sub>2</sub>ZnSnS<sub>4</sub> Nanoparticles (Graduate School of Engineering, Nagoya Univ.; Graduate School of Engineering, Osaka Univ.) NISHI, Hiroyasu; NAGANO, Takahito; KUWABATA, Susumu; TORIMOTO, Tsukasa
- 2C1-43\*** Formation Mechanism of Transition Metal Silicide-Based nanocomposites (Toyota Central R&D Laboratories, Inc.) ITAHARA, Hiroshi; OHSUNA, Tetsu; OH, Song-yul; IMAGAWA, Haruo

Chair: TORIMOTO, Tsukasa (16 : 30~17 : 10)

- \* 16:20-16:30: interval for laptop PC connection.(2C1-46, 2C1-48)
- 2C1-46\*** Examination of the Synthesis and Fibrosis of Polycarbosilane as a Precursor of Silicon Carbide (Industrial Technology Institute of Ibaraki Prefecture) ANDO, Ryo; IIMURA, Shuji; ASANO, Toshiyuki; HASEGAWA, Yoshio
- 2C1-48\*** Phase behavior and structure of ionic plastic crystals based on fluoroanions (Kyoto Univ.) MATSUMOTO, Kazuhiko; TANAKA, Ryo; KOYAMA, Akira; HAGIWARA, Rika

## Sunday, March 24, AM

### Composite Materials

Chair: KANIE, Kiyoshi (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3C1-01, 3C1-03, 3C1-04, 3C1-05, 3C1-06)
- 3C1-01\*** Palladium Nanoparticles (PdNPs) Incorporated Microporous Polymers: Influences of Ligand Properties on PdNPs Morphology and Catalytic Performances (Kawamura Inst. Chem. Res.; Donghua Univ.) YANG, Yaoyao; OGASAWARA, Shin; KATO, Shinji
- 3C1-03** Chemoselective Hydrogenation Reactions Catalyzed by Pd Nanoparticle Incorporated Microporous Polymers (Kawamura Inst. Chem. Res.,The Univ. of Tokyo.) SUGIHARA, Hiroyuki; OGASAWARA, Shin; AOKI, Kazuya; ISHII, Takehiko; KATAOKA, Kazunori; KATO, Shinji
- 3C1-04** Pd-immobilized Polymer Nanocomposite Coatings: Structural Characterization and Their Catalytic Performances. (Kawamura Inst. Chem. Res) ASADA, Tsuyoshi; KATO, Shinji
- 3C1-05** Pt Nanoparticle-Incorporated Porous Carbon Materials: Structural Characterization And Electrochemical Properties. (Kawamura Institute of Chemical Research) OGASAWARA, Shin; KATO, Shinji
- 3C1-06** Synthesis of Lanthanide Doped Layered Perovskite and Up-conversion Properties (Kumamoto Univ) FUNATSU, Asami; TOKITA, Yousuke; MURAKAMI, Tomoaki; TANIGUCHI, Takaaki; MATSUMOTO, Yasumichi
- Chair: Kato, Shinji (10 : 10~11 : 10)
- \* 10:00-10:10: interval for laptop PC connection.(3C1-08, 3C1-09, 3C1-10, 3C1-12)
- 3C1-08** Control of Aggregation Structure of Organic-Inorganic Hybrid Materials Containing Polyoxomolybdate and Liquid-Crystalline Molecules (Ritsumeikan Univ.) TSUMORI, Tatsuhiko; TSUTSUMI, Osamu
- 3C1-09** Electrochemical Behavior of Hybrids of Giant-Ring-Shaped Polyoxomolybdate and Liquid-Crystalline Organic Molecules (Ritsumeikan Univ.) NISHIDA, Shota; KIYOHARA, Ayumi; TSUTSUMI, Osamu
- 3C1-10\*** Synthesis of Functionalized POSS Fillers for Regulating Refractive Indices of Polymers. (Graduate School of Engineering, Kyoto University) JEON, Jong-hwan; TANAKA, Kazuo; CHUJO, Yoshiki
- 3C1-12\*** Fabrication and characterization of carbon nanotube/polybenzoxazole composite (Kyushu University) FUKUMARU, Takahiro; FUJIGAYA, Tsuyohiko; NAKASHIMA, Naotoshi

Chair: SAKAMOTO, Masanori (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(3C1-15, 3C1-17, 3C1-19)
- 3C1-15\*** Preparation of Carbon Composite Materials with Metal Nanoparticles Synthesized by Ionic Liquid-Sputtering Method and Their Application (Osaka Univ.; Nagoya Univ.; JST-CREST) YOSHII, Kazuki; YAMAJI, Keisuke; TSUDA, Tetsuya; TORIMOTO, Tsukasa; KUWABATA, Susumu
- 3C1-17\*** Formation of Organic/Inorganic Hybrid Thin Films by Control of Amorphous-Crystalline Transitions (The Univ. of Tokyo) KAJIYAMA, Satoshi; NISHIMURA, Tatsuya; SAKAMOTO, Takeshi; OHTSUKI, Chikara; KATO, Takashi
- 3C1-19\*** Liquid-Crystalline Organic-Inorganic Hybrid Dendrimer: Photoluminescence Behavior of Self-Organized CdS Nanospheres (IMRAM Tohoku Univ.; University of Sheffield) MATSUBARA, Masaki; KANIE, Kiyoshi; YABUKI, Jun; NAKAYA, Masafumi; UNGAR, Goran; MURAMATSU, Atsushi

## Sunday, March 24, PM

Chair: TERANISHI, Toshiharu (13 : 30~14 : 40)

- \* 13:20-13:30: interval for laptop PC connection.(3C1-28, 3C1-29, 3C1-30, 3C1-31)
- 3C1-28** Synthesis of chiral silica by employing chiral complexes associated with polyethyleneimine (Kanagawa Univ) ARAYI, Yoshiaki; MATSUKIZONO, Hiroyuki; JIN, Ren-hua
- 3C1-29** Synthesis of hybrid materials composed of POSS residues (Kanagawa

- Univ) SUZUKI, Jyouji; JIN, Ren-hua  
**3C1-30** Development of UV-shielding material (SUMITOMO OSAKA CEMENT CO., LTD.) SUMA, Shunsuke; ITAGAKI, Tetsuro; KATAYAMA, Chiaki; MATSUSHITA, Hirokazu  
**3C1-31 CSJ Award for Technical Development** Development and Commercialization of Carbon Fiber Composite Materials for Light Weight Airplanes (Toray Ind., Inc.) YOSHINAGA, Minoru; KOBAYASHI, Hiroaki; HIRAMATSU, Toru; ODAGIRI, Nobuyuki

Chair: KOBAYASHI, Norihisa (17 : 00~18 : 00)

- \* 16:50-17:00: interval for laptop PC connection.(3C1-49, 3C1-50, 3C1-51, 3C1-52, 3C1-53, 3C1-54)  
**3C1-49** Fabrication of Polyviologen/ZnO Compositated electrode and its Anode-Activity (Dept of Appl. Chem., Waseda Univ.) MARUO, Hirofumi; SUZUKA, Michio; SANO, Naoki; OYAZU, Kenichi; NISHIDE, Hiroyuki  
**3C1-50** Synthesis of Zirconium Polymer Coupling Agents and Their Properties (Tokyo University of Science) OSADA, Yousuke; TSUKADA, Satoru; ABE, Yoshimoto; GUNJI, Takahiro  
**3C1-51** Development of simple synthetic method of octasilsesquioxane derivatives. (Tokyo University of Science) OONO, Junpei; TSUKADA, Satoru; ABE, Yoshimoto; GUNJI, Takahiro  
**3C1-52** Synthesis of Polyurethane using  $\beta$ -diketone complex (Tokyo University of Science) HAYAMI, Ryohei; TSUKADA, Satoru; ABE, Yoshimoto; GUNJI, Takahiro  
**3C1-53** Synthesis and characterization of polysilsesquioxane having arylsulfonic acid as a side chain. (Tokyo University of Science) TOMOBE, Akira; TSUKADA, Satoru; ABE, Yoshimoto; GUNJI, Takahiro  
**3C1-54** Synthesis of cage silsesquioxane having conjugated compound as a side chain (Tokyo University of Science) MASUDA, Kensuke; NAGAMINE, Takuya; TSUKADA, Satoru; ABE, Noritaka; GUNJI, Takahiro

## Monday, March 25, AM

### Composite Materials

Chair: TANAKA, Kazuo (9 : 00 ~ 9 : 50)

- \* 8:50-9:00: interval for laptop PC connection.(4C1-01, 4C1-02, 4C1-03, 4C1-04, 4C1-05)  
**4C1-01** Structure and photophysical properties of DNA and luminescent metal oxide nanoparticles composite material (Fac. Eng., Chiba Univ.) WATANABE, Wataru; SAGARA, Amika; NAKAMURA, Kazuki; SHIBA, Fumiyuki; KOBAYASHI, Norihisa  
**4C1-02** Synthesis of fullerene derivative having azulene group as a side chain (Tokyo University of Science) MATSUTA, Yuya; TSUKADA, Satoru; ABE, Noritaka; GUNJI, Takahiro  
**4C1-03** Synthesis of silsesquioxane organic-inorganic hybrid by ene-thiol reaction (Tokyo University of Science) MURAKAMI, Tomoki; TSUKADA, Satoru; ABE, Yoshimoto; GUNJI, Takahiro  
**4C1-04<sup>#</sup>** Titanium oxide nanoparticle-dispersed urethan resin production via Matrix Sputtering technique (Faculty of Engineering, Hokkaido Univ.) PORTA, Matteo; NARUSHIMA, Takashi; YONEZAWA, Tetsu  
**4C1-05** preparation and characterization of polyyne containing liquid crystal (Graduate School of Life Sciences, Ritsumeikan Univ.) SHIBATA, Ayaka; MATSUTANI, Ryutaro; INOUE, Kohei; SANADA, Tomoe; KOJIMA, Kazuo

### Organic Materials

Chair: YONEZAWA, Tetsu (10 : 00~10 : 50)

- \* 9:50-10:00: interval for laptop PC connection.(4C1-07, 4C1-08, 4C1-09, 4C1-10)  
**4C1-07** Morphology and Orientation Control of Diacetylene Derivative Crystals Inspired by Structures of a Fish Skin and Their Solid-State Polymerization (Keio Univ.) KANEKO, Soichiro; OAKI, Yuya; IMAI, Hiroaki  
**4C1-08** Development of Anthracene-boronic Acid Ester for Detection of Water Based on Photo-induced Electron Transfer (PET) (Hiroshima University) UENAKA, Koji; OYAMA, Yousuke; MATSUGASAKO, Ai; HARIMA, Yutaka; OHSHITA, Joji  
**4C1-09** Synthesis and Properties of Organic Polyradical (Graduate School of Science, Hiroshima University) NAGASAKI, Takaaki; HAN, Jing; SONOO, Masato; NISHIHARA, Sadafumi; INOUE, Katsuya  
**4C1-10\*** The particle size-controlled synthesis of PMMA nanoparticles by tandem acoustic emulsification and its application to structural color materials (Yokohama National Univ.) HIRAI, Yuki; KOJIMA, Maya; NAKABAYASHI, Koji; ATOBE, Mahito

Chair: TSUKADA, Satoru (11 : 00~12 : 00)

- \* 10:50-11:00: interval for laptop PC connection.(4C1-13, 4C1-14, 4C1-15, 4C1-17)  
**4C1-13** Rational design of photoresponsive self-assembling molecular systems (Tokyo Tech) OKUI, Yumi; HAN, Mina  
**4C1-14** Synthesis of a novel lithium borate with solid-state ionic conductivity

- (EcoTopia Science Institute, Nagoya Univ.) HANAWA, Yutaro; MORIYA, Makoto; SAKOMOTO, Wataru; YOGO, Toshinobu  
**4C1-15\*** Composite Structure by Metal-polyiodide,  $I_3^-$ , within Hydrophilic Polymer [VI]; Effect on n-Alkane within Aqueous Solution. (Res. React. Inst., Kyoto Univ.) KAWAGUCHI, Akio  
**4C1-17\*** Exfoliation of Graphene by Hexa-peri-hexabenzocoronene derivatives (Kyushu Univ. Dept. of Engineering) KABE, Ryota; ADACHI, Chihaya

## Room C2 FOREST HOUSE F102

## Functions of Materials

### Friday, March 22, AM

Chair: FUNAHASHI, Masahiro (10 : 40~11 : 30)

- \* 10:30-10:40: interval for laptop PC connection.(1C2-11, 1C2-13, 1C2-15)  
**1C2-11<sup>#</sup>** High CO<sub>2</sub>/CH<sub>4</sub> and C<sub>2</sub> Hydrocarbons/CH<sub>4</sub> Selectivity in a Chemically Robust Porous Coordination Polymer (iCeMS, Kyoto Univ.) DUAN, Jingui; HIGUCHI, Masakazu; KITAGAWA, Susumu  
**1C2-13\*** Synthesis of Sb doped SnO<sub>2</sub> nano particles by NAC-FAS method and fabrication of transparent conductive thin films (Kinki University; Molecular Engineering Institute) MIYAZAKI, Hirokazu; ITO, Seishiro; ENDO, Takeshi  
**1C2-15** Photoinduced Hydrogen Evolution by Zinc Porphyrin-Cobaloxime Hybride Molecule Bridged by Carbon-Bridged Oligo-*p*-Phenylenevinylene (Department of Chemistry, School of Science, The University of Tokyo) SUKEGAWA, Junpei; TSUJI, Hayato; NAKAMURA, Eiichi

### Friday, March 22, PM

Chair: TSUTSUMI, Osamu (12 : 40~13 : 50)

- \* 12:30-12:40: interval for laptop PC connection.(1C2-23, 1C2-25, 1C2-26, 1C2-27, 1C2-28, 1C2-29)  
**1C2-23\*** The Actuation Mechanism of Polymer-based CNT Actuators (AIST; Health Research Institute) SUGINO, Takushi; SHIBATA, Yoshiyuki; KIYOHARA, Kenji; ASAKA, Kinji  
**1C2-25** Mesomorphic and electron transport properties of perylene tetracarboxylic bisimide derivatives bearing oligosiloxane chains (Fac. Eng., Kagawa Univ.) FUNAHASHI, Masahiro; TAKEUCHI, Nozomi; YAMAOKA, Mika; SONODA, Akinari  
**1C2-26** Photoalignment Behavior of Liquid Crystals with Fluorescent Coumarin Derivatives (Chemical Resource Laboratory, Tokyo Institute of Technology) KINOSHITA, Motoi  
**1C2-27** Studies on two-photon absorption property and diradical character of zethrene derivatives with phenylethynyl substitution (AIST; Osaka Univ.; National Cheng Kung University) MINAMIDE, Shu; KAMADA, Kenji; OHTA, Koji; YONEDA, Kyohei; KISHI, Ryohei; SHIGETA, Yasuteru; NAKANO, Masayoshi; WU, Tsun-cheng; WU, Yao-ting; KITABAYASHI, Kenichi; HIBI, Daijiro; SHIMIZU, Akihiro; TOBE, Yoshito  
**1C2-28** Molecular Dynamics Study of Kinetic Separation Behavior of Light Isotope Mixed Gas (Shinshu Univ. ENC's) MINAMI, Daiki; NIIMURA, Subaru; FUJIMORI, Toshihiko; KANEKO, Katsumi  
**1C2-29** Preparation of Novel Boron Adsorption Materials Using Mesoporous Silica (Nagano prefecture general industrial technology center) KOBAYASHI, Satoshi

Chair: KINOSHITA, Motoi (14 : 00~15 : 00)

- \* 13:50-14:00: interval for laptop PC connection.(1C2-31, 1C2-32, 1C2-33, 1C2-34, 1C2-35, 1C2-36)  
**1C2-31** Synthesis of porous phosphosilicate and evaluation of its anion exchange capacity (IIS, The Univ. of Tokyo) KIMURA, Tadahi-ro; KOMABA, Shinichi; MORITA, Kazuki; YANABA, Yutaka; OGURA, Masaru  
**1C2-32** Inclusion Behavior of Long-chain Fatty Acid Esters by  $\alpha$ -Cyclodextrin Derivatives in Nonpolar Solvents (Osaka Univ.) HAMADA, Mitsuyo; HINOUE, Tomoaki; KIDA, Toshiyuki; AKASHI, Mitsuru  
**1C2-33** Preparation of chiral water-soluble ladder-like polysilsesquioxanes and their chiral induction behavior into dye molecules (Gagoshima Univ.) KANEKO, Yoshiro; KINOSHITA, Shota; TOYODOME, Hisaya  
**1C2-34** Synthesis and magnetic alignment of photo-functional niobate nanoscrolls (Department of Applied Chemistry, Tokyo Metropolitan University) UCHIKOSHI, Akino; MIYAJIMA, Soki; YAMATO, Masafumi; NABETANI, Yu; TACHIBANA, Hiroshi; INOUE, Haruo  
**1C2-35** Nanostructure and photo-induced morphology change of polyfluorinated alkyl azobenzene derivative/niobate hybrids (Dept. of Appl. Chem., Tokyo Metro. Univ.) NABETANI, Yu; MATSUKURA, Syoichi; HAYASAKA, Yuika; VIVEK, Ramakrishnan; TACHIBANA, Hiroshi; INOUE, Haruo  
**1C2-36<sup>#</sup>** Comparison of Photo-switching behaviour of polyfluorinated cationic surfactants containing azobenzene moiety in various microenvironments



(Grad. Sch. Urban Environmental Sci., Tokyo Metropolitan Univ.)  
RAMAKRISHNAN, Vivek; SASAMOTO, Shin; YAMAMOTO, Daisuke;  
NABETANI, Yu; TACHIBANA, Hiroshi; INOUE, Haruo

Chair: KAWATSUKI, Nobuhiro (15 : 10~16 : 30)

\* 15:00-15:10: interval for laptop PC connection.(1C2-38, 1C2-39, 1C2-41,  
1C2-42, 1C2-43, 1C2-44, 1C2-45)

**1C2-38** Relation of photo isomerization and molecular assembly under high pressure condition (Grad. Sch. Urban Environmental Sci., Tokyo Metropolitan Univ.) YAMAMOTO, Daisuke; ALAMIRY, Mohammed; RAMAKRISHNAN, Vivek; NABETANI, Yu; SHIMADA, Tetsuya; YANO, Kazuhisa; TACHIBANA, Hiroshi; HARRIMAN, Anthony; INOUE, Haruo

**1C2-39\*** Photoluminescent behavior of liquid-crystalline gold(I) complexes showing smectic phases. (Ritsumeikan Univ.) FUJISAWA, Kaori; IZUMI, Yuichi; OKUDA, Yuki; TSUTSUMI, Osamu

**1C2-41** Liquid-crystallinity and photoluminescent behavior of gold complexes with chiral moiety (Ritsumeikan Univ.) SUGIMOTO, Nana; TAMAI, Sho; FUJISAWA, Kaori; TSUTSUMI, Osamu

**1C2-42** Photoluminescence of polymer liquid crystals containing calamitic gold complexes as a mesogen (Ritsumeikan Univ.) TAMAI, Sho; FUJISAWA, Kaori; TSUTSUMI, Osamu

**1C2-43** Control of luminescent Colors by Means of Phase Transition in Liquid-Crystalline Cyclic Trinuclear Gold Complexes (Ritsumeikan Univ.) TAMARU, Masakazu; FUJISAWA, Kaori; TSUTSUMI, Osamu

**1C2-44** Stimuli-responsive Multicolored Luminescence of Au-isocyanide Complexes Possessing Oligoethylene Glycol Chains (Grad. Sch. Eng., Chiba Univ.; Grad. Sch. Sci. and Eng., Hokkaido Univ.) KAWAGUCHI, Kohsuke; SEKI, Tomohiro; KARATSU, Takashi; KITAMURA, Akihide; ITO, Hajime; YAGAI, Shiki

**1C2-45** Circularly polarized Luminescence properties of chiral lanthanoid complexes in low molecular amorphous materials (Grad. Sch. Mat. Sci., NAIST) UENO, Hiroshi; YUASA, Junpei; KAWAI, Tsuyoshi

Chair: KOBATAKE, Seiya (16 : 40~17 : 40)

\* 16:30-16:40: interval for laptop PC connection.(1C2-47, 1C2-48, 1C2-49,  
1C2-50, 1C2-51, 1C2-52)

**1C2-47** Difference in thermal and photo-induced phase transitions between two derivatives of an azobenzene-triphenylene system (Ryukoku Univ.; AIST Ubiqen) TANAKA, Daisuke; SHIRASU, Tatsuya; SHIMIZU, Yo; UCHIDA, Kingo

**1C2-48** Branched-chain effect of terminal alkyl chains on the thermal and photo-induced isothermal phase transitions for an azobenzene-triphenylene mesogenic system (Ryukoku Univ.; AIST Ubiqen) SHIRASU, Tatsuya; TANAKA, Daisuke; SHIMIZU, Yo; UCHIDA, Kingo

**1C2-49** Cooperative Photoisomerization of Azobenzene Gel by Pulsed Laser Irradiation (Ryukoku Univ.; Osaka Univ.) UCHIDA, Kingo; SAKIYAMA, Shingo; KATAYAMA, Tetsuro; ISHIBASHI, Yukihide; MIYASAKA, Hiroshi

**1C2-50** Construction of photoresponsive J-aggregates by supramolecular copolymerization of diarylethenes and perylene bisimides (Grad. Sch. Eng., Chiba Univ.) IWAI, Kazunori; KARATSU, Takashi; KITAMURA, Akihide; YAGAI, Shiki

**1C2-51** Aggregation and Photoreaction Property of Diarylethene Containing Amphiphilic Groups (Grad. School of Eng., Kyoto Univ., JST PRESTO) TAIRA, Genki; HIGASHIGUCHI, Kenji; HIROSE, Takashi; MATSUDA, Kenji

**1C2-52** The Effect of Substitution Position for the Conductance in Diarylethene-Gold Nanoparticle Networks (Grad. School of Eng., Kyoto Univ., JST PREST) MATSUI, Kentarou; HIGASHIGUCHI, Kenji; MATSUDA, Kenji

## Saturday, March 23, AM

Chair: IMAHORI, Hiroshi (9 : 10 ~ 10 : 10)

\* 9:00-9:10: interval for laptop PC connection.(2C2-02, 2C2-04, 2C2-05,  
2C2-06)

**2C2-02\*** Inhibition of Bacterial and Platelet adhesion by Heteroarm Star polymer coatings (NAIST Mater. Sci.) TOTANI, Masayasu; ANDO, Tsuyoshi; CHUANWU, Xi; TERADA, Kayo; KURODA, Kenichi; TANIHARA, Masao

**2C2-04** Preparation and Blood Compatibility of Hemoglobin-Albumin Cluster (Faculty of Sci. and Eng., Chuo University; Center for Adv. Biomed. Sci., Waseda University) HARUKI, Risa; KIMURA, Takuya; TOMITA, Daiki; SOU, Keitaro; KOMATSU, Teruyuki

**2C2-05** Surface Biofunctionalization of SUS316L stent material based on a peptide aptamer (TUT) MIKAMI, Akane; FUJIMOTO, Kazuhiro; SASAKI, Makoto; TAGUCHI, Tetsusi; KARUBE, Isao; YAMAZAKI, Tomohiko

**2C2-06\*** Cytoplasmic delivery of antigenic peptides by needle-shaped peptide nano-assemblies (Kyoto Institute of Technology) WAKU, Tomonori; KITAGAWA, Yuichi; KAWABATA, Kazufumi; KUNUGI, Shigeru; TANAKA, Naoki

Chair: ANDO, Tsuyoshi (10 : 20~11 : 30)

\* 10:10-10:20: interval for laptop PC connection.(2C2-09, 2C2-11, 2C2-12,  
2C2-13, 2C2-14)

**2C2-09\*** Lung-Specific siRNA Delivery Using Water-Soluble Fullerene Derivative (The Univ. of Tokyo) MINAMI, Kosuke; HARANO, Koji; OKAMOTO, Koji; NOIRI, Eisei; DOI, Kent; NAKAMURA, Eiichi

**2C2-11** Biocompatibilization and intracellular delivery of gold nanorod by using cell-penetrating high-density lipoprotein nanodisc (Kyoto Univ., WPI-iCeMS) NAKATSUJI, Hirotsuka; MURAKAMI, Tatsuya; MORONE, Nobuhiro; HOIZA, Jonn; HASHIDA, Mitsuru; IMAHORI, Hiroshi

**2C2-12** Fabrication of minor capsid protein VP2-incorporated virus capsid and their application of drug delivery (Hokkaido Univ.) SUGIMURA, Naotoshi; NIIKURA, Kenichi; MITOMO, Hideyuki; SHIMAMOTO, Naonobu; SAWA, Hirofumi; IJIRO, Kuniharu

**2C2-13** Search and Biological Application for Single-Walled Carbon Nanotubes Effectively Generating Reactive Oxygen Species (Kyoto Univ., WPI-iCeMS) INADA, Mami; MURAKAMI, Tatsuya; NAKATSUJI, Hirotsuka; UMEYAMA, Tomokazu; IMAHORI, Hiroshi

**2C2-14\*** Molecular-sieve feature of organic-inorganic hybrid vesicle and their application to bio nano-reactors (Grad. Sch. Mater. Sci., Nara Inst. Sci. and Technol.) YASUHARA, Kazuma; OSHIMA, Shohei; KIKUCHI, Jun-ichi

## Saturday, March 23, PM

Chair: HIGASHIGUCHI, Kenji (12 : 40~13 : 40)

\* 12:30-12:40: interval for laptop PC connection.(2C2-23, 2C2-24, 2C2-25,  
2C2-26, 2C2-27, 2C2-28)

**2C2-23** Photochromism of diarylethene derivatives having malachite green moiety. (Ryukoku Univ.; Tokyo Univ. of Pharmacy and Life Sciences; RIKEN Research Cluster for Innovation) TATSUMI, Yuto; UCHIDA, Kingo; KASUNO, Megumi; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro

**2C2-24** Synthesis and Evaluation of Water-Soluble Diarylethenes (Rikkyo Univ.) SHOJI, Yuichiro; MORIMOTO, Masakazu; IRIE, Masahiro

**2C2-25** Photochromic reaction of novel diarylethene derivatives having a substituted azulene ring (Ryukoku Univ.; RIKEN Research Cluster for Innovation; Tokyo Univ. of Pharmacy and Life Sciences) KITAI, Jun-ichiro; UCHIDA, Kingo; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro

**2C2-26** Photochromism of diarylethenes with thiophene-S,S-dioxide group and the reactivity of thermal bleaching byproduct formation (Graduate School of Engineering, Osaka City University) SHOJI, Hiroaki; KOBATAKE, Seiya

**2C2-27** Photochromic properties of a new water-soluble naphthopyran (Aoyama Gakuin University) YAMANE, Takuya; MUTOH, Katsuya; ABE, Jiro

**2C2-28** Observation of Metal Ion Complexation of Crowned Spirobenzopyran by Atomic Force Microscopy (Wakayama University, Faculty of Systems Engineering) SUMINAGA, Yuusuke; KADO, Shinpei; NAKAHARA, Yoshio; KIMURA, Keiichi

Chair: MORIMOTO, Masakazu (13 : 50~15 : 00)

\* 13:40-13:50: interval for laptop PC connection.(2C2-30, 2C2-31, 2C2-32,  
2C2-34, 2C2-35)

**2C2-30** Redox properties of [2,2]paracyclophane-bridged imidazole dimer (Aoyama Gakuin University) NAKANO, Emi; MUTOH, Katsuya; ABE, Jiro

**2C2-31** Photochromism of bridged-bisimidazolyl (Aoyama Gakuin University) NAKAGAWA, Yuki; MUTOH, Katsuya; HATANNO, Sayaka; TSUJIMOTO, Takashi; ABE, Jiro

**2C2-32\*** Photochromism of biaryl-bridged imidazole dimer 1 (Aoyama Gakuin University) HATANNO, Sayaka; ABE, Jiro

**2C2-34** Photochromism of biaryl-bridged imidazole dimer 2 (Aoyama Gakuin University) YAMAGUCHI, Tetsuo; HATANNO, Sayaka; ABE, Jiro

**2C2-35\*** Application of Fast Photochromism to Real-Time Dynamic Hologram (Aoyama Gakuin University) ISHII, Norihito; ABE, Jiro

Chair: UCHIDA, Kingo (15 : 10~16 : 10)

\* 15:00-15:10: interval for laptop PC connection.(2C2-38, 2C2-39, 2C2-41,  
2C2-43)

**2C2-38** Synthesis of Fluorescent Dithienylethene Derivatives (Rikkyo Univ.) SUMI, Takaki; MORIMOTO, Masakazu; IRIE, Masahiro

**2C2-39\*** Fluorescence switching by using fast photochromic molecule possessing a fluorescent unit (Aoyama Gakuin University) MUTOH, Katsuya; ABE, Jiro

**2C2-41\*** Photoinduced crystal twisting of a diarylethene crystal (Graduate School of Engineering, Osaka City Univ.) KITAGAWA, Daichi; KOBATAKE, Seiya

**2C2-43** Photomechanical Effect of Two-component Mixed Crystals Composed of Diarylethene Derivatives (Rikkyo Univ.) OHSHIMA, Satoko; MORIMOTO, Masakazu; IRIE, Masahiro

Chair: ABE, Jiro (16 : 20~17 : 20)

\* 16:10-16:20: interval for laptop PC connection.(2C2-45, 2C2-46, 2C2-47,  
2C2-48, 2C2-50)

**2C2-45** Effect of temperature on photoinduced topographical changes on microcrystalline surface (Ryukoku Univ.; Mitsubishi Chemical Group; Tokyo

- Univ. of Pharmacy and Life Sciences; RIKEN Research Cluster for Innovation) FUJINAGA, Noriko; SAKIYAMA, Shingo; KOJIMA, Yuko; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro; UCHIDA, Kingo
- 2C2-46** Photomechanical Behavior of Pseudopolymorphic Crystals of Spiropyran (Ehime Univ.; Rigaku Co.) KOSHIMA, Hideko; FUKUYAMA, Tetsuya; SHIRO, Motoo
- 2C2-47** Integration of Photomechanical Crystals of Salicylideneanilines into Polymer Films (Ehime Univ.; Kyoto Univ.) MATSUDOMI, Masafumi; MATSUURA, Daisuke; KOSHIMA, Hideko; KIMURA, Fumiko; KIMURA, Tsunehisa
- 2C2-48\*** Photoinduced Topographical Changes on Diarylethene Microcrystalline Surface – Formation of a Superhydrophobic Surface on which Contact Angle of a Water Droplet Exceed 170 degree- (Ryukoku Univ.; Univ. of Tokyo; MITSUBISHI Chemical Group; Osaka Kyoiku Univ.; Hokkaido Univ.; Tokyo Univ. of Pharmacy and Life Sciences; RIKEN Research Cluster for Innovation) UCHIDA, Kingo; SAKIYAMA, Shingo; NISHIKAWA, Naoki; YAMAZOE, Seiji; KOJIMA, Yuko; TSUJIOKA, Tsuyoshi; MAYAMA, Hiroyuki; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro
- 2C2-50** Cell death on the thinfilm surface of diarylethenes having a sulfone group by photo-irradiation (Ryukoku Univ.; AIST Research Center for Stem Cell Engineering; Tokyo Univ. of Pharmacy and Life Sciences; RIKEN Research Cluster for Innovation) UCHIDA, Kingo; KODAMA, Ryubei; SUMARU, Kimio; KAMITANAKA, Takashi; KITAI, Jun-ichiro; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro

### Sunday, March 24, AM

Chair: MISAWA, Hiroaki (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3C2-01, 3C2-03, 3C2-05)
- 3C2-01\*** Enhancement of Pbs-Sensitized Photocurrents in the Near-Infrared Region by Plasmonic Gold Nanoparticles (IIS, The Univ. of Tokyo) KAWAWAKI, Tokuhisa; TATSUMA, Tetsu
- 3C2-03\*** Photocatalytic CO<sub>2</sub> Reduction by a Metal Complex Adsorbed on Mesoporous Silica Materials (Tokyo Tech., Niigata Univ., AIST, Toyota Central R&D Lab., JST-ALCA) UEDA, Yutaro; TAKEDA, Hiroyuki; YUI, Tatsuo; KOIKE, Kazuhide; INAGAKI, Shinji; ISHITANI, Osamu
- 3C2-05\*** Efficient Thermally Activated Triplet-Triplet Energy Transfer with a Large Energy Difference: Temperature-Sensitive Phosphorescent Material Systems (Graduate School of Engineering, Tokyo Univ. of Agri. and Tech.) WATANABE, Toshiyuki; OKADA, Yuya; TOTANI, Kenro; HIRATA, Shuzou

Chair: NAKATO, Teruyuki (10 : 10 ~ 11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3C2-08, 3C2-10, 3C2-12, 3C2-13)
- 3C2-08\*** Development of a maglev graphite-based optical motion control system and its application for a power generation system (Aoyama Gakuin University) KOBAYASHI, Masayuki; ABE, Jiro
- 3C2-10\*** Bio-penetrating near-infrared mechanoluminescence for artificial nerve system (National Institute of Advanced Industrial Science and Technology (AIST), Measurement Solution Research Center) TERASAKI, Nao; ZHENG, Liaoying; TERASAWA, Yujin; YAMADA, Hiroshi; XU, Chao-nan
- 3C2-12** Preparation of pillared carbon thin films by UV light irradiation and their gas sensing properties (Univ. of Hyogo) TACHIBANA, Yuji; MATSUO, Yoshiaki
- 3C2-13** Evaluation of Up-conversion based on Triplet-Triplet Annihilation in hydrophobic DNA (Research Institute of Electronics, Shizuoka Univ.; Faculty of Engineering, Shizuoka Univ.) KAWAI, Hideki; ITO, Jun; MATSUMOTO, Shinya

Chair: TAKAGI, Shinsuke (11 : 20 ~ 12 : 00)

- \* 11:10-11:20: interval for laptop PC connection.(3C2-15, 3C2-16, 3C2-17, 3C2-18)
- 3C2-15** Spectral properties of stacked nanogap gold structures and near-field enhancement effects (RIES-Hokkaido Univ.; PRESTO-JST) MATSUZUKA, Yuki; OLIVIER, Lecarme; UENO, Kosei; MISAWA, Hiroaki
- 3C2-16** Spectral properties of nanogap gold chain structures and induction of radiation forth by infrared light radiation (RIES-Hokkaido Univ.; PRESTO-JST) NOZAWA, Sho; ITOH, Hiroko; NAKANO, Wakako; UENO, Kosei; MISAWA, Hiroaki
- 3C2-17\*** Plasmon coupling in gold nanoparticle chains probed by photoemission electron microscopy (RIES-Hokkaido Univ.; CRIS-Hokkaido Univ.; PRESTO-JST) YU, Han; SUN, Quan; UENO, Kosei; MISAWA, Hiroaki
- 3C2-18** Structures of organogels composed of aromatic compounds and a surfactant designed for organic-/inorganic hybrid light-emitting devices (Shimane Univ.; Shinshu Univ.; Hiroshima Univ.; IMS) NISHIYAMA, Katsura; WATANABE, Keiichi; KATSUBE, Shotaro; SATO, Takaaki; KATSUMOTO, Yukiteru; KAJI, Toshihiko; HIRAMOTO, Masahiro

### Sunday, March 24, PM

Chair: NISHIYAMA, Katsura (13 : 10 ~ 14 : 10)

- \* 13:00-13:10: interval for laptop PC connection.(3C2-26, 3C2-27, 3C2-28,

3C2-29, 3C2-30, 3C2-31)

- 3C2-26** Nd<sup>3+</sup>-Doped Perovskite Nanosheets with Tailored NIR Luminescence (Kumamoto Univ) FUNATSU, Asami; TOKITA, Yosuke; MURAKAMI, Tomoaki; TANIGUCHI, Takaaki; MATSUMOTO, Yasumichi
- 3C2-27** Switchable electronic property of a biphenyl derivative intercalated into clay minerals (Fac. Sci., Yamaguchi Univ.) TOMINAGA, Makoto; NISHIOKA, Yukihiro; SUZUKI, Yasutaka; TANI, Seiji; KAWAMATA, Jun
- 3C2-28** Molecular Vibration of Acetylene derivative intercalated in a clay mineral (Grad. Sch. Med., Yamaguchi Univ.) SUZUKI, Yasutaka; MOCHIDA, Shuhei; TANI, Seiji; KAWAMATA, Jun; YOSHITAKE, Masashi; KUBO, Kazuya; NAKAMURA, Takayoshi
- 3C2-29** Adsorption structure of the xanthen derivative - porphyrin - clay complex and the photochemical energy transfer reaction (Tokyo Metropolitan Univ.) OHTANI, Yuta; ISHIDA, Yohei; HAGIWARA, Satomi; SHIMADA, Tetsuya; INOUE, Haruo; TAKAGI, Shinsuke
- 3C2-30** Development of Environmentally Reversible Responsive Membrane Composed of Cationic Porphyrin And Inorganic Layered Material (Tokyo metropolitan Univ. ;Takagi Lab.) FUJIMURA, Takuya; TACHIBANA, Hiroshi; INOUE, Haruo; SHIMADA, Tetsuya; TAKAGI, Shinsuke
- 3C2-31** Photocatalytically Active Pickering Emulsions Prepared by Organically Modified Layered Niobate (Kyushu Inst. Tech.; Tokyo Univ. Agri. & Tech.) NAKATO, Teruyuki; UEDA, Hiroaki; TERAOKA, Ryosuke; MOURI, Emiko

## Room C3

FOREST HOUSE F103

### Applications of Materials

Friday, March 22, PM

Chair: KUWABATA, Susumu (15 : 10 ~ 16 : 00)

- \* 15:00-15:10: interval for laptop PC connection.(1C3-38, 1C3-39, 1C3-40, 1C3-41)
- 1C3-38\*** Synthesis and optical properties of novel bisazomethine dyes having dibutylamino groups (Yokohama Natl. Univ.) YU, Hyung-wook; KIM, Byung-soon; MATSUMOTO, Shinya
- 1C3-39** Synthesis and optical properties of novel diketo-pyrrolo-pyrrole derivatives having an alkenyl group (Tokyo Printing Ink ; Yokohama Natl. Univ.) TODA, Akehiro; SEKINE, Toshihiko; IMAI, Kengo; MATSUMOTO, Shinya
- 1C3-40** Solid-state fluorescence of carbocyanine dyes (Gifu University) ANDO, Yukiyo; KUBOTA, Yasuhiro; FUNABIKI, Kazumasa; MASAKI, Matsui
- 1C3-41\*** Environment-friendly Inorganic Red Pigments Based on Bismuth Oxide (Osaka University) WEN, Dusu; MASUI, Toshiyuki; IMANAKA, Nobuhito

Chair: UEMATSU, Taro (16 : 10 ~ 17 : 00)

- \* 16:00-16:10: interval for laptop PC connection.(1C3-44, 1C3-45, 1C3-46, 1C3-47)
- 1C3-44** New indoline dyes for zinc oxide dye-sensitized solar cells (Gifu University) ONO, Masaomi; KUBOTA, Yasuhiro; FUNABIKI, Kazumasa; MASAKI, Matsui
- 1C3-45** Synthesis of Novel Squarylium Dyes Containing BODIPY Skeletons and Application for Dye-Sensitized Solar Cells (Graduate School of Engineering, Osaka Pref. Univ.) KAKIO, Daisuke; MAEDA, Takeshi; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki
- 1C3-46\*** Novel Functional Dyes with Squaraine-naphthalene Diimide Hybrid Structure (Graduate School of Engineering, Osaka Pref. Univ.) ZHOU, Jin; MAEDA, Takeshi; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki
- 1C3-47\*** Structure-function Relationship of Novel Sensitizers for Dye-sensitized Solar Cells Based on Squaraine Chromophores (Osaka Prefecture Univ.) MAEDA, Takeshi; MINETA, Shohei; FUJIWAWA, Hideki; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki

### Saturday, March 23, AM

Chair: YAMAGUCHI, Takeo (9 : 00 ~ 9 : 50)

- \* 8:50-9:00: interval for laptop PC connection.(2C3-01, 2C3-02, 2C3-03, 2C3-04, 2C3-06)
- 2C3-01** Performance Improvement of Organic Secondary Battery Based on Triquinaxalylene Cathode-Active Material by Use of Ionic Liquid Electrolyte/Silica (Osaka Pref. Univ.; Tohoku Univ.) SUGIMOTO, Toyonari; HANYU, Yuki; GANBE, Yoshiyuki; HONMA, Itaru
- 2C3-02** Charge-discharge Behavior of the Secondary Organic Battery Using Dithioamide and its Related Compounds as the Cathode Active Material (Kobe City College of Tech.; Murata Manufacturing Co. Ltd.) KOIZUMI, Takuya; SASAKI, Shunsuke; OKUMURA, Ryo; MARUYAMA, Norihiko; SATOH, Masaharu; ONOUE, Tomoaki; MIURA, Yozo

- 2C3-03** Synthesis of  $\text{Li}_4\text{Ti}_5\text{O}_{12}$  Nanoparticles using Hydrothermal Method and their Battery Performance (IMRAM, Tohoku Univ.) TSUJIKAWA, Yusuke; KANIE, Kiyoshi; KIMIJIMA, Takeshi; MURAMATSU, Atsushi
- 2C3-04\*** Synthesis of new disulfide polymers using solvent-free reaction and their application to lithium rechargeable battery. (Department of Chemistry; Yonago National College of Technology) TANIFUJI, Naoki; YAMAMOTO, Kouhei; MURAO, Akifumi; HARA, Satoshi; YOSHIKAWA, Hirofumi

Chair: YAMAMOTO, Kimihisa (9 : 50 ~ 10 : 50)

- 2C3-06#** The Metal Oxide Catalysts Based on IV or V Group Elements as Non-platinum Cathodes of PEFCs. (Faculty of Eng., The Univ. of Tokyo) SEO, Jeongsuk; TAKANABE, Kazuhiro; KUBOTA, Jun; DOMEN, Kazunari
- \* 10:00-10:10: interval for laptop PC connection.(2C3-08, 2C3-10, 2C3-12)
- 2C3-08\*\*** Homogeneous Loading of Pd-Pt Core-shell Nanoparticles on Polybenzimidazole wrapped- Carbon Nanotubes for Fuel Cell application (Grad. Sch. Eng., Kyushu Univ.) KIM, Chaerin; FUJIGAYA, Tsuyohiko; NAKASHIMA, Naotoshi
- 2C3-10\*** Ab-initio calculation of phosphoric acid interaction with polybenzimidazole (Grad. Sch. Sci., Eng., Tokyo Tech) SHIRATA, Kei; KAWAUCHI, Susumu

Chair: NAKASHIMA, Naotoshi (10 : 50 ~ 11 : 50)

- 2C3-12\*** Development of Catalyst Layer by Using Zr compound-Nafion Nanohybrid Electrolyte in PEFCs (Chemical Resources Lab., Tokyo Institute of Tech.) NAKAJIMA, Tatsuya; TAMAKI, Takanori; OHASHI, Hidenori; YAMAGUCHI, Takeo
- \* 11:10-11:20: interval for laptop PC connection.(2C3-15, 2C3-16, 2C3-18, 2C3-20, 2C3-21, 2C3-22)
- 2C3-15** Development of nano-sized electroconductive oxides for non-Pt electrocatalysts for oxygen reduction reaction of polymer electrolyte fuel cells (Univ. of Tokyo) ARASHI, Takuya; SEO, Jeongsuk; HISATOMI, Takashi; KUBOTA, Jun; DOMEN, Kazunari
- 2C3-16\*\*** Phenylazomethine Dendrimer Encapsulated AuPt Bimetallic Nanoparticles (Tokyo Institute of Technology, Chemical Resources Laboratory) KANG, Ling-chen; ALBRECHT, Ken; YAMAMOTO, Kimihisa

Chair: NAKAZUMI, Hiroyuki (11 : 50 ~ 12 : 40)

- 2C3-18\*\*** Fluorescence Properties of (Dialkylamino)perfluorophenazines (Faculty of Engineering, Gifu University) BIRADAR, Siddanagouda; KUBOTA, Yasuhiro; FUNABIKI, Kazumasa; MATSUI, Masaki
- 2C3-20** Solvatochromic Effect of Pyrazine-Boron complexes (Faculty of Engineering, Gifu University) KUBOTA, Yasuhiro; SAKUMA, Yusuke; FUNABIKI, Kazumasa; MATSUI, Masaki
- 2C3-21** Synthesis and Optical Properties of Squarylium-Boron Complexes (Faculty of Engineering, Gifu University) KUBOTA, Yasuhiro; TSUKAMOTO, Masahiro; FUNABIKI, Kazumasa; MATSUI, Masaki
- 2C3-22** Synthesis and Optical Properties of Quinone-Boron Complexes (Faculty of Engineering, Gifu University) KUBOTA, Yasuhiro; NIWA, Takahiro; FUNABIKI, Kazumasa; MATSUI, Masaki

## Saturday, March 23, PM

Chair: NAKAMURA, Kazuki (13 : 50 ~ 14 : 30)

- \* 13:40-13:50: interval for laptop PC connection.(2C3-30, 2C3-32, 2C3-33)
- 2C3-30\*** Synthesis and Photo- and Electroluminescent Properties of Phosphorescent Iridium(III) Complexes Bearing  $\pi$ -Extended Cyclometalated Ligands (Osaka Prefecture Univ.) IKAWA, Shigeru; YAGI, Shigeyuki; MAEDA, Takeshi; NAKAZUMI, Hiroyuki
- 2C3-32** Synthesis and Photoluminescent Properties of Tris-cyclometalated Iridium(III) Complexes Bearing Electron-withdrawing Groups on Phenylpyridine Ligands (Osaka Prefecture Univ.) NAKAMURA, Taiyo; YAGI, Shigeyuki; MAEDA, Takeshi; NAKAZUMI, Hiroyuki
- 2C3-33** Synthesis and Photo- and Electroluminescent Properties of Novel Cyclometalated Iridium(III) Complexes Bearing Carbazole-appended Dendrons (Osaka Prefecture Univ.) MIYAZAKI, Miho; YAGI, Shigeyuki; MAEDA, Takeshi; NAKAZUMI, Hiroyuki

Chair: SAKURAI, Yoshiaki (14 : 40 ~ 15 : 10)

- \* 14:30-14:40: interval for laptop PC connection.(2C3-35, 2C3-36, 2C3-37, 2C3-38, 2C3-40)
- 2C3-35** Optical, electrochemical properties of electrochemiluminescent device containing liquid crystalline molecule (Fac. Eng., Chiba Univ.) TSUNEYASU, Shota; IBATA, Yuki; NAKAMURA, Kazuki; KOBAYASHI, Norihisa
- 2C3-36** AC-Driven Electrochemiluminescence of DNA /  $\text{Ru}(\text{bpy})_3^{2+}$  Complex (Fac. Eng., Chiba Univ.) TAKAHASHI, Ryota; NAKAKOMI, Masaru; NOBESHIMA, Taiki; NAKAMURA, Kazuki; KOBAYASHI, Norihisa
- 2C3-37** Fabrication of electroluminescence device using silsesquioxane / europium complex hybrid (Osaka Munic. Tech. Res. Inst., Osaka Electro-Commun. Univ.) FUJISAKI, Daiki; WATASE, Seiji; WATANABE, Mitsuru; MITAMURA, Koji; NISHIOKA, Noboru; MATSUKAWA, Kimihito

Chair: KUWABATA, Susumu (15 : 10 ~ 16 : 50)

- 2C3-38\*** Excimer-based Electroluminescent Behavior of Polymer Light-emitting Diodes Doped with Cyclometalated Platinum(II) Complexes (Osaka Prefecture Univ.; Technology Research Institute of Osaka Pref.) SHIGEHIRO, Tatsuya; YAGI, Shigeyuki; MAEDA, Takeshi; NAKAZUMI, Hiroyuki; SAKURAI, Yoshiaki
- 2C3-40** Excimer Emission Behavior of a Series of Heteroleptic Cyclometalated Platinum(II) Complexes Bearing Various Electron-withdrawing Groups on their Cyclometalated Ligands (Osaka Prefecture Univ.) OKAMURA, Naoki; YAGI, Shigeyuki; MAEDA, Takeshi; NAKAZUMI, Hiroyuki
- \* 15:40-15:50: interval for laptop PC connection.(2C3-42, 2C3-43, 2C3-45, 2C3-46, 2C3-47)
- 2C3-42** Synthesis and Photoluminescent Properties of Novel Cyclometalated Platinum(II) Complexes Bearing Dipyridophenazine-based Tridentate Ligands (Osaka Prefecture Univ.; Technology Research Institute of Osaka Pref.) HORI, Akira; SHIGEHIRO, Tatsuya; YAGI, Shigeyuki; MAEDA, Takeshi; NAKAZUMI, Hiroyuki; SAKURAI, Yoshiaki
- 2C3-43\*\*** Instinctively Stretchable Electrochromic Device Using Organic-Metallic Hybrid Polymers (NIMS; JST-CREST) ZHANG, Jian; HIGUCHI, Masayoshi
- 2C3-45** Phenylpyrimidine oligomers stabilizing blue phases (Hirosaki Univ.) KASHIMA, Shinnya; YOSHIKAWA, Atsushi
- 2C3-46** Optimization of Direct Electron Transfer for Glucose Oxidase Using Ni/MWCNT/Au Composite Electrode (Graduate School of Life Sciences, Toyo Univ.) OKAMURA, Yosuke; KATO, Kazuo; OKUMA, Hirokazu
- 2C3-47** Introduction of surface labeled grating to PDMS films and their deformation analysis (Chemical Resources Laboratory, Tokyo Institute of Technology) TASHIRO, Wataru; AKAMATSU, Norihisa; MAMIYA, Jun-ichi; KINOSHITA, Motoi; FUJIKAWA, Shigenori; SHISHIDO, Atsushi

Chair: TADANAGA, Kiyoharu (17 : 00 ~ 18 : 00)

- \* 16:50-17:00: interval for laptop PC connection.(2C3-49, 2C3-50, 2C3-51, 2C3-52, 2C3-53, 2C3-54)
- 2C3-49** Preparation of Thermal Stability of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Silica/Calcium Silicate Nanocomposite (Hirosaki University) SAITO, Tomoya; TSUSHIMA, Yusei; SAWADA, Hideo
- 2C3-50** Formation of Calcium Fluoride by the Calcination of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Silica/Calcium Carbonate Nanocomposites (Hirosaki University) IDOMUKAI, Satsuki; SAITO, Tomoya; TSUSHIMA, Yusei; SAWADA, Hideo
- 2C3-51** Preparation and Application of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Silica/Talc Nanocomposites (Hirosaki University, Miyoshi Kasei) OIKAWA, Yuri; SAITO, Tomoya; HASEGAWA, Yuki; SAWADA, Hideo
- 2C3-52** Preparation and Thermal Stability of Fluoroalkyl End-capped Styrene Dimer-encapsulated a Variety of Low Molecular Weight Aromatic Compounds (Hirosaki University; Shimane University) OKUNO, Keita; OKAZAKI, Masaaki; IZUKA, Mari; YOSHIDA, Masato; SAWADA, Hideo
- 2C3-53** Preparation and Thermal Stability of Fluoroalkyl End-capped Oligomers/Boric Acid/Silica Nanocomposites (Hirosaki University) SHIMAMURA, Takuto; SOUMA, Saki; SAWADA, Hideo
- 2C3-54** Preparation and Thermal Stability of N, N-Dimethylacrylamide Oligomer/Silica Nanocomposites (Hirosaki University; National Institute of Advanced Industrial Science and Technology) KABUTOMORI, Masakazu; OKUNO, Keita; NISHIDA, Masakazu; SAWADA, Hideo

## Sunday, March 24, AM

Chair: SAWADA, Hideo (9 : 00 ~ 9 : 20)

- \* 8:50-9:00: interval for laptop PC connection.(3C3-01, 3C3-02, 3C3-03, 3C3-04, 3C3-06)
- 3C3-01** Preparation and characterization of alumina-based thin films with the hierarchical surface morphology by the sol-gel method (Sch. Eng., Osaka Pref. Univ.) TADANAGA, Kiyoharu; SHIMOMURA, Yuki; TATSUMISAGO, Masahiro
- 3C3-02** Preparation and Insulation Property for the Composite Material of High Heat-Resistance Resin and Clay Mineral (Hitachi Research Laboratory; Hitachi, Ltd.) TANASE, Tomokazu

Chair: HIGUCHI, Masayoshi (9 : 20 ~ 10 : 30)

- 3C3-03** Preparation and Thermal Stability of Fluoroalkyl End-capped Oligomers/Boron Nitride Nanocomposites (Hirosaki University; Fujikura Composites) OGASAWARA, Takahumi; TAKAHASHI, Keigo; SAWADA, Hideo
- 3C3-04\*\*** Photocatalytic Activity of a Variety of Fluoroalkyl Groups-Containing Acrylate-Acrylic Acid Cooligomers/Titanium Oxide/Silica Nanocomposites after Calcination at  $1000^\circ\text{C}$  (Hirosaki University; Graduate School of Science and Technology, Hirosaki University; LIXIL) GUO, Sujuan; KAKEHI, Hiroshi; KATO, Yoshihiro; MIURA, Masashi; ISU, Norifumi; SAWADA, Hideo
- 3C3-06** Catalytic Activity of Fluorinated Sulfonic Acid Derivatives/Silica Nanocomposites before and after Calcination at  $800^\circ\text{C}$  (Hirosaki University; Nippon Chemical Industrial Co., Ltd.) SOUMA, Saki; MIZUGUCHI, Yohei; SUGIYA, Masashi; SAWADA, Hideo
- \* 10:00-10:10: interval for laptop PC connection.(3C3-08, 3C3-10, 3C3-12,

3C3-13)

**3C3-08\*** Coloring-Decoloring Behavior of Fluoroalkyl End-capped 2-Acrylamido-2-methylpropanesulfonic Acid Oligomer/Acetone Composite in Methanol (Hirosaki University; National Institute of Advanced Industrial Science and Technology; Shimane University) KIJJIMA, Tetsushi; NISHIDA, Masakazu; FUKAYA, Haruhiko; YOSHIDA, Masato; SAWADA, Hideo

Chair: YOSHIKAWA, Atsushi (10 : 30~11 : 30)

**3C3-10\*** Interaction of Fluoroalkyl End-capped Oligomer/Polyaniline Nanocomposites with a Variety of Basic Compounds (Hirosaki University) TSUZUKI-ISHI, Taiki; SAWADA, Hideo

**3C3-12** Structures and properties of styrene dimers bearing hydroxyl and fluoroalkyl groups (Shimane University; Hirosaki University) IIZUKA, Mari; OKUNO, Keita; OKAZAKI, Masaaki; SAWADA, Hideo; YOSHIDA, Masato

**3C3-13** Preparation of Organic-Inorganic Hybrids with Pt-Porphyrin Complexes and Their Environmental Responsiveness. (Kyoto Univ.; Matsumoto Yushi-Seiyaku Co., Ltd.) OKADA, Hiroshi; TANAKA, Kazuo; CHUJO, Yoshiaki

\* 11:10-11:20: interval for laptop PC connection.(3C3-15, 3C3-16, 3C3-17, 3C3-19, 3C3-21)

**3C3-15** The Evaluation of the Filler Surface Treatment and Optimization of Material Properties by Using an Electrochemical Method (Industrial Technology Center of Okayama Prefecture) NIGO, Hideyuki; MITSUISHI, Kazuta; FUJIWARA, Kei; GOTOH, Kuniaki

Chair: TANAKA, Kazuo (11 : 30~12 : 40)

**3C3-16** Full color microlens array fabrication based on polymer electrodeposition (Osaka Electro-Communication University, Technology Research Institute of Osaka Prefecture) HATAKEYAMA, Saeko; YAMAMURA, Masahiro; SATOH, Kazuo; MURAKAMI, Shu-ichi; INOUE, Yohtarō; ENOMOTO, Hirioyuki; SAKURAI, Yoshiaki

**3C3-17\*** Semiconductor Bonding Application of Metal Nanoparticle Arrays Fabricated by Block-Copolymer Templates (AIST) MIZUNO, Hidenori; MAKITA, Kikuo; MATSUBARA, Koji

**3C3-19\*** Inspiring Performance of Near Infrared luminescence materials based on Firefly Bioluminescence (The Univ. of E.- Comm., Engineering and Sci.) IWANO, Satoshi; OBATA, Rika; KOJIMA, Satoshi; HIRANO, Takashi; MAKI, Shojiro; NIWA, Haruki

**3C3-21\*** Studies on the singlet oxygen scavenging mechanism of astaxanthin (FUJIFILM Corporation, Analysis Technology Center) FUJIWARA, Akiko; MORI, Junichi; MIYASHITA, Yousuke; NAGATA, Kouzou

## Room C4

FOREST HOUSE F104

### Environmental and Green Chemistry, Geo and Space Chemistry

Friday, March 22, PM

Chair: KANECO, Satoshi (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(1C4-28, 1C4-30, 1C4-31, 1C4-32)

**1C4-28\*** Development of High Performance Heterogeneous Catalysts for Selective Transformation of Glycerol (Osaka Univ.) MIZUGAKI, Tomoo; YAMAKAWA, Takayuki; ARUNDHATHI, Racha; MITSUDOME, Takato; JITSUKAWA, Koichiro; KANEDA, Kiyotomi

**1C4-30** The efficient production of essential oil by microwave distillation under reduced pressure and its analysis of aroma components (Kyushu Inst. of Technol.) ABE, Makiko; WATANABE, Akira; HARAGUCHI, Shunichi; IWAHASHI, Nobuyuki; OHUCHI, Shokichi; ITOH, Etsuro

**1C4-31** Enzymatic and nonenzymatic conversion of Chl a into Chl d (Division of Materials Science, Faculty of Pure and Applied, Univ. of Tsukuba) HOTOTA, Yuichi

**1C4-32\*** Efficient decomposition of PVDF and related chemicals to fluoride ions by using subcritical and supercritical water (Kanagawa Univ.; National Institute of Advanced Industrial Science & Technology (AIST)) HORI, Hisao; SAKAMOTO, Takehiko; YOSHIKAWA, Haruka; OHMURA, Kenta; FUJITATOMOYUKI; MORIZAWA Yoshitomi

Chair: MIZUGAKI, Tomoo (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(1C4-35, 1C4-36, 1C4-37, 1C4-39, 1C4-40)

**1C4-35** Superhydrophobic/superhydrophilic pattern on TiO<sub>2</sub> nanotube film (Okayama Univ.) NISHIMOTO, Shunsuke; BECCHAKU, Michiaki; KAMESHIMA, Yoshikazu; MIYAKE, Michihiro

**1C4-36** The adsorption and decomposition of peptides in titanium dioxide photocatalytic systems (Nagaoka Univ. of Technology) NOSAKA, Atsuko; TANAKA, Goro; NOSAKA, Yoshio

**1C4-37\*** Water Treatment Effect of Various Metal Oxide Semiconductors with

Ozone and Light Irradiation (Univ. of Okayama) MANO, Takayuki; NISHIMOTO, Shunsuke; KAMESHIMA, Yoshikazu; MIYAKE, Michihiro

**1C4-39** Photocatalytic Decomposition of Acetaldehyde with Visible-Light-Driven TiO<sub>2</sub>-WO<sub>3</sub> Mesoporous Photocatalysts Prepared by Electro-spray and Hydrothermal Treatment (Kanagawa Academy of Science and Technology) YAMAGUCHI, Yuichi; NAKATA, Kazuya; LIU, Baoshun; OCHIAI, Tuyoshi; SAKAI, Hideki; MURAKAMI, Taketoshi; ABE, Masahiko; FUJISHIMA, Akira

**1C4-40** Development of Renewable Self-Cleaning Film Based on Organic Monolith (Kanagawa Academy of Science and Technology) YOSHIKAWA, Kodai; NAKATA, Kazuya; SAKAI, Munetosi; OCHIAI, Tsuyoshi; SAKAI, Hideki; MURAKAMI, Taketoshi; ABE, Masahiko; FUJISHIMA, Akira

Chair: NOSAKA, Yoshio (15 : 50~16 : 30)

\* 15:40-15:50: interval for laptop PC connection.(1C4-42, 1C4-43, 1C4-44, 1C4-45)

**1C4-42** Photo-Fenton Reaction with Iron-treated Hydroxyapatite as a Catalyst -Remediation of the Catalyst by Humic Substances- (Dept. of Chem., Saitama Medical Univ.; Taihei Chem. Industrial Co.,Ltd.) MORIGUCHI, Takeshi; NAKAGAWA, Souhei

**1C4-43** Photocatalytic hydrogen production from aqueous solution by metal sulfide loaded Cd<sub>0.3</sub>Zn<sub>0.7</sub>S (Mie Univ.) ANDO, Hideki; KATSUMATA, Hideyuki; SUZUKI, Tohru; KANECO, Satoshi

**1C4-44** Photocatalytic hydrogen production from aqueous glucose solution using TiO<sub>2</sub> photocatalyst with simultaneous metal deposition (Graduate School of Engineering, Mie University) PARAMASIVAN, Gomathisankar; YAMAMOTO, Daisuke; KATSUMATA, Hideyuki; SUZUKI, Tohru; KANECO, Satoshi

**1C4-45** Proteinoid microsphere form proteinoids synthesized in various conditions (Fukuoka Inst. Technol.) MITA, Haime; KANAMARU, Hiroshi; HATAE, Kota; NAKAMURA, Shoichi; TURUYAMA, Mami

### Saturday, March 23, AM

Chair: MIYAZAKI, Akane (9 : 10 ~9 : 50)

\* 9:00-9:10: interval for laptop PC connection.(2C4-02, 2C4-03, 2C4-04, 2C4-05)

**2C4-02** Formation of SOAs from atmospheric reactions among VOC, NOx and O<sub>3</sub> - laboratory experiments on particulate total organic nitrates - (Waseda University) MATSUMOTO, Jun

**2C4-03** Development of a continuous measurement system of PANs and organic nitrates in the atmosphere and observations at Suzu, Noto Peninsula (Sch. Eng., Osaka Pref. Univ.) TAKAJI, Ryo; SADANAGA, Yasuhiro; NAKAJIMA, Kazuo; SUZUKI, Kazunari; MATSUKI, Atsushi; SATO, Keiichi; BANDOW, Hiroshi

**2C4-04** Observation of vertical distribution of gases in atmosphere by open-path FT-IR spectroscopy and with a tower of 50-m height (Tokyo Univ. Agricul. Technol.) YAMAMOTO, Kentaro; YANAGI, Ryouma; YOSHIMURA, Norio; TAKAYANAGI, Masao

**2C4-05** A Study of removal mechanism of nitrogen dioxide on cedar powder (Grad. Sch. Eng., Osaka Pref. Univ.) SAKAMAKI, Ken; BANDOW, Hiroshi; TAKENAKA, Norimichi

Chair: TONOKURA, Kenichi (10 : 00~10 : 50)

\* 9:50-10:00: interval for laptop PC connection.(2C4-07, 2C4-08, 2C4-09, 2C4-10)

**2C4-07** Chemical characteristics of metallic constituents in atmospheric particulate matter (Osaka City Inst. Publ. Heal. & Environ. Sci.; Mie Univ.) FUNASAKA, Kunihiro; KANECO, Satoshi

**2C4-08** Particle size distribution of polycyclic aromatic hydrocarbons (PAHs) formed by grilling (CRIEPI; Japan Womens Univ.) SAITO, Erina; MIYAZAKI, Akane; TANAKA, Nobuyuki; TSUZAKI, Masaharu

**2C4-09\*** Measurement of methyl ester, hydrocarbons, CO, CO<sub>2</sub> and particles emission from diesel power generator with diesel - biodiesel blend fuel (Sch. Eng., Osaka Pref. Univ.; Vietnam Academy of Science and Technology) PHAN, Quang Thang; CHIKAMORI, Noriaki; TAKENAKA, Norimichi

**2C4-10\*** Relationship between Precipitation Amount and Concentration of Pollutants Contained in Precipitation Samples Obtained at Japan, Korea and Taiwan. (Hyogo Univ. of Teacher Educ.) OZEKI, Toru; OGAWA, Nobuaki; NAKATA, Ryuji; FUJINAGA, Kaoru; KIM, Dong-uk; LIM, Hee-jun; KIM, Sung-hoon; PARK, Ji-ho; CHEN, Kelvin

Chair: TAKENAKA, Norimichi (11 : 00~11 : 40)

\* 10:50-11:00: interval for laptop PC connection.(2C4-13, 2C4-14, 2C4-15, 2C4-16)

**2C4-13** Development of a system to evaluate *in-situ* photochemical ozone production rate in the troposphere (Osaka Prefecture Univ.) TANAKA, Yuki; SADANAGA, Yasuhiro; KAJII, Yoshizumi; BANDOW, Hiroshi

**2C4-14** Atmospheric measurement of nitrous oxide (N<sub>2</sub>O) and nitrous acid (HONO) using cavity ring-down spectroscopy with a cw-quantum cascade laser in the mid-infrared region (Univ. of Tokyo) TAKAHASHI, Ryoh; TONOKURA, Kenichi

**2C4-15** Development of the analysis technique for nitrogen dioxide using continuous-wave cavity ringdown spectroscopy (Univ. of Tokyo Graduate School of Frontier Sciences) YARIMIZU, Shuhei; TONOKURA, Kenichi;

YAMAMOTO, Yukio

- 2C4-16** Measurement of carbon dioxide isotopologue using cavity enhanced absorption spectroscopy (Univ. of Tokyo) YAMAMOTO, Yukio; TONOKURA, Kenichi

### Saturday, March 23, PM

Chair: YOSHIOKA, Toshiaki (13 : 10~14 : 10)

\* 13:00-13:10: interval for laptop PC connection.(2C4-26, 2C4-28, 2C4-30)

- 2C4-26\*\*** Decontamination of Environmental Radioactive Cesium (National Institute of Advanced Industrial Science and Technology) PARAJULI, Durga; KAWAMOTO, Tohru; TANAKA, Hisashi; FUKUDA, Shigeharu; KAMIMURA, Ryuichi
- 2C4-28\*** Cs<sup>+</sup>-Adsorption Capacities of Prussian-Blue Nanoparticles Depending on Number of Defect Sites (Fac. Sci., Yamagata Univ.) ISHIZAKI, Manabu; AKIBA, Sayori; MATSUBA, MATSUBA MAYU; KANAIZUKA, Katsuhiko; KURIHARA, Masato; SAKAMOTO, Masatomi; KAWAMOTO, Tohru; TANAKA, Hisashi; WATANABE, Masayuki; ARISAKA, Makoto
- 2C4-30\*** Nano-Prussian Blue for the Removal of Cesium with Wood Incinerated Ash Extraction Solution (National Institute of Advanced Industrial Science and Technology) KITAJIMA, Akiko; YOSHINO, Kazunori; TANAKA, Hisashi; KAWAMOTO, Tohru

Chair: KATO, Takeshi (14 : 20~15 : 00)

\* 14:10-14:20: interval for laptop PC connection.(2C4-33, 2C4-34, 2C4-35, 2C4-36)

- 2C4-33** Changes of water quality in rivers of winter in the southern part of Oita prefecture (Rivers of the southern part of Oita prefecture) YOKOTA, Kyohei; SATO, Shun; AIZAWA, Yuya; SATO, Yasutaka; SAKAMOTO, Haruki
- 2C4-34** Removal of fluoride by Mg-Al layered double hydroxides (Grad. Sch. Environmental Studies, Tohoku Univ.) OBA, Junpei; KAMEDA, Tomohito; YOSHIOKA, Toshiaki
- 2C4-35** Study of cleaning effects in cleaning of microbubble with ultrasonic wave (Tokyo Metropolitan College of Industrial Technology) IKEDA, Hiroshi; NAKAMURA, Yuki; KURITA, Kastumi; AOKI, Shigeru; HIRAI, Seiji; KOMURA, Makoto
- 2C4-36** Final storage of radioactive cesium by the hydrothermal synthesis of pollutant from natural zeolites or clay (Department of Applied Chemistry, National Defense Academy) YOKOMORI, Yoshinobu; KAMIYA, Natsumi; TODA, Tetsuya; NISHI, Koji

Chair: YOKOMORI, Yoshinobu (15 : 10~15 : 50)

\* 15:00-15:10: interval for laptop PC connection.(2C4-38, 2C4-40)

- 2C4-38\*** Caesium adsorbent using mild alkali tolerance prussian blue analogue (National Institute of Advanced Industrial Science and Technology) TAKAHASHI, Akira; TANAKA, Hisashi; SUE, Kiwamu; MINAMI, Kimitaka; KAWAMOTO, Tohru
- 2C4-40\*** Development of simple analysis for fluoride based on ON/OFF color reaction with Aluminum ion and Alfosone (Toyama national college of technology) MANAKA, Atsushi; YAMAZAKI, Gentaro; IGARASHI, Shukuro

### Organic Crystals

#### Sunday, March 24, AM

Chair: ASAH, Tsuyoshi (9 : 00 ~10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(3C4-01, 3C4-02, 3C4-03, 3C4-04, 3C4-05)

- 3C4-01** Synthesis and fluorescence behavior control of novel metal pyrenephosphonates (Tokyo University of Agriculture and Technology) KURODA, Tomoya; KONDO, Atsushi; MAEDA, Kazuyuki
- 3C4-02** Creation of functional naphthoquinone pigment with chlorobenzenethiol derivatives. (Kinki University;NIMS) INOUE, Takafumi; YOTUMOTO, Eiki; KOBAYASHI, Yuhei; TAJIMA, Nobuo; IMAI, Yoshitane
- 3C4-03** Preparation of supramolecular heterocyclic host complex and control of its release property of guest molecules (Kinki University;Tokyo University of Science) WAKABAYASHI, Takashi; HIGE, Shintaro; KOBAYASHI, Yuhei; KURODA, Reiko; IMAI, Yoshitane
- 3C4-04** Control of circularly polarized luminescence (CPL) property of axially chiral binaphthyl compound by its environment (Kinki University; NIMS; NAIST; Tokyo University of Science) KIMOTO, Takaya; AMAKO, Tomoyuki; TAJIMA, Nobuo; FUJIKI, Michiya; KURODA, Reiko; IMAI, Yoshitane
- 3C4-05\*** Unusual Luminescent Behavior of 9-Phenyl-9,10-disilatriptycene Showing Room-Temperature Phosphorescence in the Crystal State (Graduate School of Engineering, Gunma University; Graduate School of Science, Tohoku University) KURIBARA, Takayoshi; ISHIDA, Shintaro; KYUSHIN, Soichiro; HUANG, Haixiang; HORIUCHI, Hiroaki; HIRATSUKA, Hiroshi; KUDO, Takako

Chair: IMAI, Yoshitane (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(3C4-08, 3C4-09, 3C4-10, 3C4-11, 3C4-12, 3C4-13)

- 3C4-08** Nanoparticle formation of a fluorescent  $\lambda^5$ -phosphine compound with a reprecipitation method and its fluorescence properties (Ehime University) KAIHARA, Kunihiko; ASAH, Tsuyoshi; SASAKI, Shino; OCHI, Yusuke; HAYASHI, Minoru

- 3C4-09** Synthesis and Triboluminescence properties of carbazole derivatives with trifluoromethyl and phenyl groups (Tokyo Institute of Technology) NAGAMINE, Takumi; NISHIDA, Jun-ichi; YAMASHITA, Yoshiro

- 3C4-10** Single-Crystal-to-Single-Crystal Phase Transition of Gold(I) Isocyanide Complex Induced by Mechanical Stimuli : Generating Auophilic Interactions (Faculty of Engineering and Frontier Chemistry Center, Graduate School of Chemical Sciences and Engineering, Hokkaido Univ.) MUROMOTO, Mai; SEKI, Tomohiro; ITO, Hajime

- 3C4-11** Single-Crystal-to-Single-Crystal Phase Transition of Gold(I) Isocyanide Complex Induced by Mechanical Stimuli : Disappearing Auophilic Interactions (Faculty of Engineering and Frontier Chemistry Center, Graduate School of Chemical Sciences and Engineering, Hokkaido Univ.) SAKURADA, Kenta; SEKI, Tomohiro; ITO, Hajime

- 3C4-12** Mechanical properties of Photoinduced Bending Crystals of Salicylideneanilines (Ehime Univ.) MATSUDOMI, Masafumi; KOSHIMA, Hideko

- 3C4-13** Optical properties of crystal modifications of 5-*t*-butyl-2,3-dicyano-6-[4-(dimethylamino)styryl]pyrazine (Yokohama Natl. Univ.) OKADA, Naoya; ETOU, Ryouhei; MATSUMOTO, Shinya; HORIGUCHI-BABAMOTO, Emi

Chair: YAMADA, Shinji (11 : 20~12 : 00)

\* 11:10-11:20: interval for laptop PC connection.(3C4-15, 3C4-16, 3C4-17, 3C4-18)

- 3C4-15** Control of Axial Chirality of Nicotinamide Derivatives by Crystallization and Generation of Chiral Memory (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; OKAMOTO, Kazuma; KAMATAKI, Norifumi; MINO, Takashi

- 3C4-16** The Absolute structure and optical rotatory dispersion of gamma-glycine (TWIns) ISHIKAWA, Kazuhiko; SUZUKI, Toshiya; TANAKA, Masahito; KAWASAKI, Tsuneomi; SOAI, Kenso; SHIRO, Motoo; SEKINE, Akiko; ASAH, Toru

- 3C4-17** Crystal Structures and Ion-Electron Cooperativities of Quinone- and Hydroquinone-Fused Crown-Ethers (Tohoku Univ.) KOBAYASHI, Takayuki; TAKEDA, Takashi; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki

- 3C4-18** Preparations and Crystal Structures of Thiadiazole- and Triazole-Fused p-Benzoquinone Derivative (Tohoku Univ.) SATO, Masahiro; TAKEDA, Takashi; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki

#### Sunday, March 24, PM

Chair: HISAKI, Ichiro (13 : 30~14 : 20)

\* 13:20-13:30: interval for laptop PC connection.(3C4-28, 3C4-29, 3C4-31)

- 3C4-28** Spatial organization of 1,8-diaroylated 2,7-dialkoxy-naphthalenes in crystal: Correlation between orientation of aryl groups and kinds of adjacent alkoxy groups (Tokyo University of Agriculture & Technology) YOSHIWAKA, Sayaka; HIJIKATA, Daichi; OKAMOTO, Akiko; YONEZAWA, Noriyuki

- 3C4-29\*** 1D nanomaterials miniaturized from organic crystals composed of tetrapodal adamantanes with N-heterocyclic units by stirrer or ultrasound (Tokushima Bunri University) TOMINAGA, Masahide; IEKUSHI, Akitaka; OHARA, Kazuaki; YAMAGUCHI, Kentaro; AZUMAYA, Isao

- 3C4-31\*** Halogen bond between halogen and anion: Analysis of intermolecular interaction energy by ab initio molecular orbital calculations (National Institute of Advanced Industrial Science and Technology (AIST)) TSUZUKI, Seiji; UCHIMARU, Tadafumi

#### Monday, March 25, AM

Chair: MUTAI, Toshiki (9 : 00 ~10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(4C4-01, 4C4-03, 4C4-04, 4C4-05, 4C4-06)

- 4C4-01\*** Structural Diversity and Molecular Recognition in Alcohol Inclusion of Salts between *N*-Trityl Amino Acids and Amines (Graduate School of Engineering, Chiba University) MEGUMI, Ken; MATSUMOTO, Shoji; AKAZOME, Motohiro

- 4C4-03** Solvent site in azithromycin solvates (Tokyo Inst. of Tech.) OSHIMA, Shio; SEKINE, Akiko; UEKUSA, Hidehiro

- 4C4-04** Absorption of chlorinated hydrocarbons dissolved in water with crystals of calix[4]arene (Graduate School of Engineering, Tohoku University) SHIBATA, Ozora; MOROHASHI, Naoya; HATTORI, Tetsutaro

- 4C4-05** Optical Resolution of 1,3-Aminophenols by Diastereomeric Salt Formation (Saitama University) HAYASHI, Naoki; KODAMA, Koichi; HIROSE, Takuji; YOSHIDA, Yasuhiko

- 4C4-06** Theoretical Prediction of Solid-Gas Sorption Property of Dipeptide Crystals (Graduate School of Human and Environmental Studies, Kyoto University) TSUE, Hirohito; SHIMIZU, Shun; SASAKI, Kohei; TAMURA, Rui

Chair: AZUMAYA, Isao (10 : 10~10 : 50)

\* 10:00-10:10: interval for laptop PC connection.(4C4-08, 4C4-09, 4C4-10, 4C4-11)

**4C4-08** Development of a Method for the Asymmetric Synthesis of Isoindolinone Derivatives with Dynamic Preferential Crystallization (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; ISHIKAWA, Hiroki; YAGISHITA, Fumitoshi; HACHIYA, Shoko; MINO, Takashi

**4C4-09** Control of the chirality of racemic cyclic imides bearing multiple chiral centers by dynamic crystallization (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; HACHIYA, Shoko; YAGISHITA, Fumitoshi; ISHIKAWA, Hiroki; MINO, Takashi

**4C4-10** Dynamic Switchable Molecular Arrangement and Fluorescence Property of Inclusion Crystal Composed of 9-Aminophenylanthracene (Graduate School of Engineering, Osaka University) HATANAKA, Keisuke; SUGINO, Misa; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji

**4C4-11** Developments of Ferroelectric Molecular Rotators with Hexa-Substituted Benzene Derivative (IMRAM, Tohoku Univ.) ICHIKAWA, Jun-ichi; HOSHINO, Norihisa; TAKEDA, Takashi; AKUTAGAWA, Tomoyuki

Chair: TSUE, Hirohito (11 : 00~11 : 40)

\* 10:50-11:00: interval for laptop PC connection.(4C4-13, 4C4-14, 4C4-15, 4C4-16)

**4C4-13** Substituent Effect in the Photomechanical Bending of Crystals of Salicylideneaniline Derivatives (Ehime Univ.) KOSHIMA, Hideko; OKAMOTO, Asami; MATSUDOMI, Masafumi

**4C4-14** Crystal Structures and Photochromism of  $\gamma$ -Cyanopropyl Cobaloximes with Salicylideneaniline Derivatives (Tokyo Institute of Technology) YAMAZAKI, Yuta; SEKINE, Akiko; UEKUSA, Hidehiro

**4C4-15** Powder X-ray diffraction analysis of guest sorption and release in the macrocyclic bionic ester (Tokyo Institute of Technology, JST CREST) JOHMO, Kohei; FUJII, Kotaro; UEKUSA, Hidehiro; KIKUCHI, Yuji; TAKAHAGI, Hiroki; ONO, Kosuke; IWASAWA, Nobuharu

**4C4-16** Structural change of host-spacer type bisphenol inclusioncrystals by guest desorption (Tokyo Inst. of Tech.) MORI, Shintaro; SEKINE, Akiko; UEKUSA, Hidehiro

## Monday, March 25, PM

Chair: HAYASHI, Naoto (13 : 00~13 : 50)

\* 12:50-13:00: interval for laptop PC connection.(4C4-25, 4C4-26, 4C4-27, 4C4-28, 4C4-29)

**4C4-25** Control of the degree of protonation in DABCO-[Ni(dmit)<sub>2</sub>] crystals (Research Institute for Electronic Science, Hokkaido Univ.) MIYAHARA, Masaki; KUBO, Kazuya; NORO, Shin-ichiro; NAKAMURA, Takayoshi

**4C4-26** Polar structure of the crystal composed of (*m*-fluoroanilinium) dicyclohexano[18]crown-6 supramolecular rotator and [MnCr(oxalate)<sub>3</sub>] (Laboratory of Functional Nanomolecular Materials, Research Institute for Electronic Science, Hokkaido University) YOSHITAKE, Masashi; KUBO, Kazuya; SUGIHARA, Hiroyuki; SUZUKI, Yasutaka; KAWAMATA, Jun; AKUTAGAWA, Tomoyuki; NORO, Shin-ichiro; NAKAMURA, Takayoshi

**4C4-27** Synthesis, Structure and Magnetic Property of p-(N-oxo-N-tert-butylamino)benzamide (Josai University, Faculty of Science) HANAI, Akihiro; AKITA, Motoko

**4C4-28** Crystal structures and physical properties of (naphthalene-1-aminium) (benzo[18]crown-6)[Ni(dmit)<sub>2</sub>]. (RIES, Hokkaido Univ.) YAN, Yin-nan; AKUTAGAWA, Tomoyuki; KUBO, Kazuya; NORO, Shin-ichiro; NAKAMURA, Takayoshi

**4C4-29** Crystal structure and physical properties of (4-aminopyridinium) (dicyclohexano[18]crown-6)[Ni(dmit)<sub>2</sub>] (RIES, Hokkaido Univ.) OHSHIMA, Yu; KUBO, Kazuya; NORO, Shin-ichiro; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi

Chair: AKITA, Motoko (14 : 00~14 : 50)

\* 13:50-14:00: interval for laptop PC connection.(4C4-31, 4C4-32, 4C4-33, 4C4-34)

**4C4-31** Crystal Structure and Physical Properties of (*m*-bromoanilinium<sup>+</sup>) (dibenzo[18]crown-6)[Ni(dmit)<sub>2</sub>] (Research Institute for Electronic Science, Hokkaido University) NAKAGAWA, Shota; KUBO, Kazuya; SAKAI, Ken-ichi; NORO, Shin-ichiro; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi

**4C4-32** Structures and physical properties of supramolecular cation salts formed by the organic ammonium cations and crown ether derivatives with [Pd(dmit)<sub>2</sub>]<sup>n-</sup> (0 < n < 2) anion (RIES, Hokkaido University) KUBO, Kazuya; YAN, Yin-nan; NORO, Shin-ichiro; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi

**4C4-33** Exhibition of Columnar and Smectic Mesophases for the Mixed LiquidCrystal Systems Using Rod-like Diacetylenes and 4-Alkoxybenzoic Acids (Graduate School of Engineering, Osaka City University) IWATA, Takashi; MATSUMOTO, Akikazu

**4C4-34\*** Liquid Crystal Formation and Reactions of Saturated and Unsaturated Carboxylic Acid Dimers (Graduate School of Engineering, Osaka City Univ.) MIYATA, Ryohei; IWATA, Takashi; SHIMOGAKI, Tomoyo;

MATSUMOTO, Akikazu

Chair: UEKUSA, Hidehiro (15 : 00~15 : 40)

\* 14:50-15:00: interval for laptop PC connection.(4C4-37, 4C4-38, 4C4-40)

**4C4-37** Formation of Amorphous Solids Consisting of Asymmetrically Substituted Triarylphenoxy (Univ. of Toyama) HAYASHI, Naoto; ISODA, Eriko; UENO, Taisetsu; YOSHINO, Junro; HIGUCHI, Hiroyuki

**4C4-38\*** Construction of Core-Shell Type Supramolecular Clusters with Two Kinds of Chirality (Graduate School of Engineering, Osaka University) SASAKI, Toshiyuki; IDA, Yoko; HISAKI, Ichiro; TOHNAI, Norimitsu; MIYATA, Mikiji

**4C4-40** Self-assembled crystalline complexes consisted of ethyleneimine residues and organic acids and their application in sol-gel reaction (Kanagawa Univ) MURATA, Hiroki; MATSUKIZONO, Hiroyuki; JIN, Ren-hua

## Room C5 FOREST HOUSE F105

### Polymer

### Friday, March 22, AM

Chair: YOSHIE, Naoko (9 : 00 ~10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(1C5-01, 1C5-03, 1C5-04, 1C5-05, 1C5-06)

**1C5-01\*** Dynamics of drying and swelling alginate gels as studied by solid state NMR (Kanazawa University) KUMAGAI, Yoshihide; OHASHI, Ryutarou; IDA, Tomonori; MIZUNO, Motohiro

**1C5-03** Synthesis of Helically Chiral Poly(quinoxaline-2,3-diyl)s Bearing a Pyridyl Group on the Quinoxaline Ring via Post-Polymerization Functionalization (Kyoto Univ.) KAMASAWA, Sho; AKAI, Yuto; YAMAMOTO, Takeshi; SUGINOME, Michinori

**1C5-04** Evaluation of Thermal Stability of Thermoplastic Polymer Nanocomposited with Multi-arylated [60]fullerene (Graduate School of Engineering, Osaka University; Totai Co., Ltd.) TAKAHASHI, Ryo; KATO, Masaaki; HARADA, Akio; KOKUBO, Ken; IKUMA, Naohiko; OSHIMA, Takumi

**1C5-05** Construction of Crystalline Flexible Films with Transparency due to the Formation of High Density Rigid Amorphous Chain and Their Polymer/Clay Nanocomposite Generation (Department of Functional Materials Science, Faculty of Engineering, Saitama University) SOUTOME, Youichi; HASHIMOTO, Masamichi; ARAI, Shuntarou; NYUUI, Tatsuki; KUBOTA, Munehiko; KUROSAKA, Keiichi; FUJIMORI, Atsuhiko

**1C5-06** Molecular shape recognition by phenylazomethine dendrimers (Tokyo Institute of Technology, Chemical Resources Laboratory) KATO, Yuto; KUROKAWA, Takuto; IMAOKA, Takane; YAMAMOTO, Kimihisa

Chair: FUJIMORI, Atsuhiko (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(1C5-08, 1C5-09, 1C5-10, 1C5-11, 1C5-12, 1C5-13)

**1C5-08** Effect of Dynamic covalent bonds in polymers on mechanical properties (Inst. of Industrial Science, Univ. of Tokyo) UEDA, Naohiro; YOSHIE, Naoko

**1C5-09** Development of nanometer-scale ordered structure of polymer blends containing a conjugated conducting polymer (Inst. of Industrial Science, Univ. of Tokyo) OGITA, Kazuhiro; SASAKI, Sono; HIKIMA, Takaaki; TAKATA, Masaki; YOSHIE, Naoko

**1C5-10** Disorientation of Aligned Cylindrical Microdomains Upon Heating and Spontaneous Reorientation Upon Cooling. (Kyoto Institute of Technology) TOMITA, Shogo; WATAOKA, Isamu; URAKAWA, Hiroshi; SHIMIZU, Nobutaka; IGARASHI, Noriyuki; SASAKI, Sono; SAKURAI, Shinichi

**1C5-11** Studies on Crystallization of Poly(oxyethylene) under a Horizontal Temperature Gradient (Kyoto Institute of Technology) DEGUCHI, Masaki; WATAOKA, Isamu; URAKAWA, Hiroshi; SHIMIZU, Nobutaka; IGARASHI, Noriyuki; SASAKI, Sono; SAKURAI, Shinichi

**1C5-12** Electron-density Mapping of Poly(3-hydroxybutyrate) Crystal by Maximum Entropy Method (Kyoto Institute of Technology) ISHII, Yasuhiro; SAKURAI, Shinichi; IWATA, Tadahisa; SUGIMOTO, Kunihisa; TAKATA, Masaki; SASAKI, Sono

**1C5-13** Crystallization Behaviors of Poly(3-hydroxybutyrate) in Spin-Coating Film-forming Processes (Kyoto Institute of Technology) HATA, Ryoosuke; ISHII, Yasuhiro; SAKURAI, Shinichi; MASUNAGA, Hiroyasu; HIKIMA, Takaaki; TAKATA, Masaki; SASAKI, Sono

Chair: SAKURAI, Shinichi (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(1C5-15, 1C5-16, 1C5-17, 1C5-18, 1C5-19)

**1C5-15** Highly Effective Control of Helical Chirality of Poly(quinoxaline-2,3-diyl)s on the Basis of Tuning of the Chiral Ether Side Chains (Kyoto Univ.)

- ADACHI, Takumi; NAGATA, Yuuya; YAMAMOTO, Takeshi; SUGINOME, Michinori
- 1C5-16** Effect of the achiral side chains on asymmetric helix-sense induction of quinoxaline copolymers bearing chiral and achiral side chains (Graduate School of Engineering, Kyoto University) NAGATA, Yuuya; NISHIKAWA, Tsuyoshi; SUGINOME, Michinori
- 1C5-17** Selective Reflection of Visible Light by Thin Film of Helical Polyquinoxalines: Control of the Wavelength and the Handedness of CPL by Tuning Screw-Sense Excess of Polymer Backbone (Graduate School of Engineering, Kyoto University) NAGATA, Yuuya; TAKAGI, Keisuke; SUGINOME, Michinori
- 1C5-18** Research on the phase-transfer catalyst of the Hexaalkyl-guanidinium salts (Univ. of Tokyo Denki) TANAKA, Satomi
- 1C5-19\*** Highly Active Platinum Subnanocluster Catalysts in Hydrogenation Reactions (Tokyo Institute of Technology, Chemical Resources Laboratory) TAKAHASHI, Masaki; IMAOKA, Takane; YAMAMOTO, Kimihisa

### Friday, March 22, PM

Chair: AOKI, Ken'ichi (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(1C5-28, 1C5-31, 1C5-32)
- 1C5-28** CSJ Award for Young Chemists in Technical Development New and Simple method of Synthesizing Acryl-block-polymer for Hair Styling Use (Mitsubishi Chemical Corp.) YODA, Shoya
- 1C5-31** Healing Polymers Networked by Diels-Alder Reaction: Effect of Chiral Structure Around the Reversible Bonds (Inst. of Ind. Sci., Univ. Tokyo) SHINOHARA, Satsuki; OYA, Nobuhiro; ISHII, Youichi; YOSHIE, Naoko
- 1C5-32\*\*** Construction of Two-Dimensional Donor-Acceptor Covalent Organic Frameworks and polymers and Insight into the Electron Transfer Events (Institute for Molecular Science; Japan Science and Technology Agency (JST)) JIN, Shangbin; NAGAI, Atsushi; JIANG, Donglin

Chair: TANAKA, Kazuo (14 : 40~15 : 50)

- \* 14:30-14:40: interval for laptop PC connection.(1C5-35, 1C5-37, 1C5-38, 1C5-39, 1C5-40, 1C5-41)
- 1C5-35\*\*** Synthesis of two-dimensional porous covalent organic framework and polymers (Sokendai; Institute for Molecular Science; Japan Science and Technology Agency (JST)) CHEN, Xiong; NAGAI, Atsushi; JIANG, Donglin
- 1C5-37\*** Construction of New Heterogeneous Organocatalysts using Covalent Organic Frameworks (Sokendai; Institute for Molecular Science) XU, Hong; NAGAI, Atsushi; JIANG, Donglin
- 1C5-38** Withdrawn
- 1C5-39** Synthesis of thermoresponsive polymers having electron donor moieties and correlation between their thermoresponsivity and charge transfer interaction in the presence of electron acceptors (Kinki Univ.) TSURUTANI, Kazuma; ISHIFUNE, Manabu
- 1C5-40** Synthesis of thermoresponsive polymers bearing chelate moieties and ion recognition during phase transition of the resulting polymers (Kinki Univ.) HASHIMOTO, Sayaka; ISHIFUNE, Manabu
- 1C5-41** Synthesis of conjugated polymers bearing pyrimidine-type liquid crystal groups as side chains (Division of Materials Science, Faculty of Pure and Applied Sciences, University of Tsukuba) YANG, Fan; KAWABATA, Kohsuke; GOTO, Hiromasa

Chair: ISHIFUNE, Manabu (16 : 00~17 : 10)

- \* 15:50-16:00: interval for laptop PC connection.(1C5-43, 1C5-45, 1C5-46, 1C5-47, 1C5-48)
- 1C5-43\*** Bulk-heterojunction solar cells composed of disk-like molecules (Faculty of Textile Science and Technology, Shinshu University) TAKEMOTO, Keisuke; KIMURA, Mutsumi
- 1C5-45** Novel dendritic thiol-ene photopolymers - UV curing behaviors and characterization of cured films (Graduate school of Chemical Sciences and Technology, Tokyo Univ. of Sci.) YAMADA, Masatsugu; ICHIMURA, Kunihiro; AOKI, Ken'ichi
- 1C5-46** Effect of 3D-conformation of the dendritic polycinnamates on their photochemical behaviors. (Graduate school of Chemical Sciences and Technology, Tokyo Univ. of Sci.) NAGASAKA, Tatsuki; IJIMA, Rihoko; ICHIMURA, Kunihiro; AOKI, Ken'ichi
- 1C5-47** Characteristic photoreactions of hydrogen-bonded complexes between polypyridyl dendrimers and 9-anthracene carboxylic acid (Graduate school of Chemical Sciences and Technology, Tokyo Univ. of Sci.) SHIMADA, Yusuke; AOKI, Ken'ichi
- 1C5-48\*\*** Exploring Two-dimensional Polymers and Framework for the Construction of Segregated Donor-Acceptor System (Institute for Molecular Science; Japan Science and Technology Agency (JST)) CHEN, Long; NAGAI, Atsushi; JIANG, Donglin

Chair: JIANG, Dong-Lin (17 : 20~18 : 30)

- \* 17:10-17:20: interval for laptop PC connection.(1C5-51, 1C5-52, 1C5-53, 1C5-55, 1C5-56, 1C5-57)
- 1C5-51** Synthesis and Properties of Chiral pi-Conjugated Polymers by the Palladium-Catalyzed Three-Component Coupling Polymerization of Aryl Dihalides, Aryl Diboronic Acids, and Internal Alkynes. (MSL, Tokyo

- Tech) KOUNO, Takamasa; INAGI, Shinsuke; TOMITA, Ikuyoshi
- 1C5-52** Analysis of Molecular Alignment Process Induced by Photopolymerization of Anisotropic Monomer (Chemical Resources Laboratory, Tokyo Institute of Technology) HISANO, Kyohei; MAMIYA, Jun-ichi; KINOSHITA, Motoi; NAKA, Yumiko; SASAKI, Takeo; SHISHIDO, Atsushi
- 1C5-53\*\*** Electrochromic properties of organic-metallic hybrid polymers bearing two metal ion species (NIMS, JST-CREST) HU, Chih-wei; MORIYAMA, Satoshi; HIGUCHI, Masayoshi
- 1C5-55** Synthesis of novel dyes for efficient triplet-triplet annihilation-supported upconversion (Graduate School of Engineering, Kyoto University) SHIOTSU, Shouhei; TANAKA, Kazuo; OHASHI, Wataru; CHUJO, Yoshiki
- 1C5-56** Synthesis of new D-Si-A type polymer with light-harvesting function (Hiroshima Univ.; Graduate school of Engineering) KANEKO, Fumiya; OHSHITA, Joji; OYOYAMA, Yosuke; TANAKA, Daiki
- 1C5-57** Photovoltaic Cells Composed of Poly(p-galvinoxylstyrene) and Indoline Dye Derivatives (Dept of Appl. Chem., Waseda Univ.) TAKEUCHI, Hironori; KATO, Fumiaki; OYAIZU, Kenichi; NISHIDE, Hiroyuki

### Saturday, March 23, AM

Chair: OYAIZU, Kenichi (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2C5-01, 2C5-02, 2C5-03, 2C5-04, 2C5-05, 2C5-06)
- 2C5-01** Fluoride Anion Sensing Behavior of pi-Conjugated Polycarbazole-Boron Complex (Sch. Mat. Sci., JAIST) HOSONO, Yasuhiro; RAMAN, Vedarajan; MATSUMI, Noriyoshi
- 2C5-02** Design of Polymer Inclusion Complex of Curcumin Using Amylose (Sch. Mat. Sci., JAIST) MORITA, Yuichiro; VEDARAJAN, Raman; MATSUMI, Noriyoshi
- 2C5-03** Electrochemical properties of ion-gel electrolytes including organo-boron bio-based polymer. (Sch. Mat. Sci., JAIST) YOSHINAGA, Yuuya; VEDARAJAN, Raman; MATSUMI, Noriyoshi
- 2C5-04** Preparation of organic-inorganic hybrid type ion-gels by dehydrocoupling of PVA with hydroboranes in ionic liquid (Sch. Mat. Sci., JAIST) TSUTAKAWA, Hiroki; VEDARAJAN, Raman; MATSUMI, Noriyoshi
- 2C5-05** Development of lithium ion conductive ester typed POSS-core dendrimer solid electrolytes (Grad. Sch. of Sci. and Tech., Kyoto Inst. of Tech.) IRIE, Yasuyuki; NAKA, Kensuke
- 2C5-06** Synthesis of Donor-Acceptor Conjugated Polymer Containing Isothianaphthene Dimer Unit and Its Application to Organic Photovoltaic Devices (Kyoto Univ., iCeMS) UMEYAMA, Tomokazu; HIROSE, Kohei; ONO, Noboru; IMAHORI, Hiroshi

Chair: UMEYAMA, Tomokazu (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(2C5-08, 2C5-09, 2C5-10, 2C5-11, 2C5-12, 2C5-13)
- 2C5-08** Synthesis and reversible negative electric charge ability of anthraquinone substituted poly(norbornene) (Dept. of Appl. Chem., Waseda Univ.) KAWAI, Takuma; MUKAI, Takuji; OYAIZU, Kenichi; NISHIDE, Hiroyuki
- 2C5-09** Synthesis of Polyphenanthrenequinone Derivatives to be Composed of an Air Secondary Battery and Charge-discharge Property (Dept of Appl. Chem., Waseda Univ.) ITO, Fumiya; OYAIZU, Kenichi; NISHIDE, Hiroyuki
- 2C5-10** Synthesis of Polyfluorenone Derivatives Aimed at An Negative Electrode Active Material Which Has High Energy Density and Charge Storage Characteristic (Dept. Appl. Chem., Waseda Univ.) YOSHIMASA, Keisuke; HARA, Miyoko; OYAIZU, Kenichi; NISHIDE, Hiroyuki
- 2C5-11** Preparation and photoelectric conversion properties of fullerene-diamine adduct (Department of Materials Science, The University of Shiga Prefecture) ONO, Yuji; KIMURA, Kento; UEDA, Taiki; OKU, Takeo; AKIYAMA, Tsuyoshi
- 2C5-12\*** Photocatalytic activation of molecular oxygen using conjugated microporous polymers (Institute for Molecular Science) XU, Yanhong; JIANG, Donglin
- 2C5-13** Synthesis and Application of Poly(TEMPO-substituted glycidyl ether) for a Cathode Active Material (Dept of Appl. Chem., Waseda Univ.) SATO, Kan; SUKEGAWA, Takashi; OYAIZU, Kenichi; NISHIDE, Hiroyuki

Chair: OTSUKA, Hidenori (11 : 20~12 : 30)

- \* 11:10-11:20: interval for laptop PC connection.(2C5-15, 2C5-17, 2C5-18, 2C5-19)
- 2C5-15\*** Helicity Induction in Polyacetylene Derivatives Bearing Biphenyl Pendants and Their Application to Chiral Discrimination (Kanazawa University) SHIMOMURA, Kouhei; MAEDA, Katsuhiko; IKAI, Tomoyuki; KANOH, Shigeyoshi; YASHIMA, Eiji
- 2C5-17** Novel Aquamaterial Using Natural Polysaccharide (School of Engineering, The University of Tokyo) YANAGISAWA, Yu; OKURO, Kou; AIDA, Takuzo
- 2C5-18** Development of Photoclickable Molecular Glues for Enhanced Adhesiveness (School of Engineering, The University of Tokyo) FUKUSATO, Yu; OKURO, Kou; AIDA, Takuzo
- 2C5-19** CSJ Award for Young Chemists Advanced Functional Materials Based on Cubic Silsesquioxanes (Grad. Sch. Eng., Kyoto Univ.) TANAKA, Kazuo

## Saturday, March 23, PM

Chair: AKIYAMA, Tsuyoshi (13 : 40~14 : 50)

- \* 13:30-13:40: interval for laptop PC connection.(2C5-29, 2C5-30, 2C5-31, 2C5-32, 2C5-33, 2C5-34, 2C5-35)
- 2C5-29** Electropolymerizable Viologen-Indoline Dye Molecules and their Photoelectric and Charge-Storageable Properties (Dept of Appl. Chem., Waseda Univ.) TAKAHASHI, Ryosuke; SANO, Naoki; OYAIZU, Kenichi; NISHIDE, Hiroyuki
- 2C5-30** Electrochemical Property of TEMPO-substituted Polynorbornene/Nafion Composites for Rocking-Chair-type Secondary Battery (Dept of Appl. Chem., Waseda Univ.) AGATSUMA, Haruka; KOYANO, Masafumi; OYAIZU, Kenichi; NISHIDE, Hiroyuki
- 2C5-31** Preparation of TEMPO-substituted Polyethyleneimine and Layer-by-Layer Assembly with Oxide Nanosheets (Dept of Appl. Chem., Waseda Univ.) YOKOYAMA, Daisuke; TSUJI, Kazumasa; NISHIDE, Hiroyuki; OSADA, Minoru
- 2C5-32** Synthesis of Low Band Gap Conjugated Polymer via Vapor-Phase Polymerization and their Photocurrent Conversion (Dept of Appl. Chem., Waseda Univ.) NAKAJIMA, Ryota; MINAGAWA, Kaoru; SUGA, Takeo; NISHIDE, Hiroyuki
- 2C5-33** Evaluation of antistatic properties of ionic liquids for polyurethane. (Tokyo University of Agriculture & Technology) TAJIMA, Saori; TSURUMAKI, Akiko; IWATA, Takuya; OHNO, Hiroyuki
- 2C5-34** Influence of side-chain and its arrangement of ferroelectric polypeptide on the OTFT memory property (Faculty of Engineering, Chiba University, AIST) IKOGA, Taihei; MITSUMURA, Yasushi; LIANG, Lijuan; UEMURA, Sei; KAMATA, Toshihide; NAKAMURA, Kazuki; KOBAYASHI, Norihisa
- 2C5-35** Cobalt-Picket Fence Porphyrin Membrane and its Oxygen-Adduct Formation (Dept of Appl. Chem., Waseda Univ.) KEMBO, Ryutarō; CHIKUSHI, Natsuru; NAKAJIMA, Satoshi; NISHIDE, Hiroyuki

Chair: SUZUKI, Masahiro (15 : 00~16 : 10)

- \* 14:50-15:00: interval for laptop PC connection.(2C5-37, 2C5-38, 2C5-39, 2C5-40, 2C5-42, 2C5-43)
- 2C5-37** Surface Modification and Characterization of Ethylene Oxide with Different Molecular Structure (Faculty of Science, Tokyo Univ. of Science) SATO, Ryutarō; MAEJIMA, Yukie; MATSUKUMA, Daisuke; OTSUKA, Hidenori
- 2C5-38** Syntheses and evaluation of polymer cobalt(II) salen complexes with exhibiting large difference in oxygen-binding affinity by light irradiation (Faculty of Engineering, Tokyo Denki University, Department of Green & Sustainable Chemistry) ENDO, Ryosuke; UBUKATA, Shun; SUZUKI, Takayuki
- 2C5-39** Synthesis of a macro-porous hydrogel of polymeric spiropyrans and its behavior of adsorption of metal ions (Faculty of Engineering, Tokyo Denki University, Department of Green & Sustainable Chemistry) TADOKORO, Osamu; KITSUKAWA, Tomohiko; SUZUKI, Takayuki
- 2C5-40\*** Interaction between polyglycerol dendrimers and amino acids (Graduate School of Engineering, Kobe University) OOYA, Tooru; LEE, Haejo; TAKEUCHI, Tshifumi
- 2C5-42** Antimicrobial activity of membrane-binding artificial peptide (Grad. Sch. Mat. Sci., Nara Inst. Sci. and Tech.) KUSUDA, Koyo; YASUHARA, Kazuma; KIKUCHI, Jun-ichi
- 2C5-43** Development of electrolyte membrane for fuel cell bearing perfluoro-sulfonic acid moiety (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) OSHINOMI, Motomichi; MAEKAWA, Yasunari; KIHARA, Nobuhiro; HASEGAWA, Shin

Chair: YASUHARA, Kazuma (16 : 20~17 : 30)

- \* 16:10-16:20: interval for laptop PC connection.(2C5-45, 2C5-47, 2C5-49, 2C5-50, 2C5-51)
- 2C5-45\*** Injectable Hydrogel with Hierarchical Network for Tissue Engineering Application (Department of Applied Chemistry, Faculty of Science, Tokyo University of Science) MATSUKUMA, Daisuke; NAGAMURA, Masako; TAKAHASHI, Chihiro; OTSUKA, Hidenori
- 2C5-47\*** Synthesis and photophysical properties of an alternately induced bimetallic-organic hybrid copolymer (NIMS; JST-CREST) SATO, Takashi; HIGUCHI, Masayoshi
- 2C5-49** Development of gelators for cosmetics and gelation properties for ternary solvents (Hanabusa laboratory) YAMAMOTO, Takeshi; SUZUKI, Masahiro; HANABUSA, Kenji
- 2C5-50** New gelators of hydrazide derivatives based on L-amino acid (hanabusa laboratory) ASAI, Yasuhiro; SUZUKI, Masahiro; HANABUSA, Kenji
- 2C5-51** Kinetics of Volume Change Observed in a Pigment containing Hydrogel Exhibiting Lower Critical Solution Temperature under Visible Light Irradiation. (Saga Univ.) IKEDA, Tatsuro; NARITA, Takayuki; OISHI, Yushi

## Sunday, March 24, PM

Chair: MIKI, Koji (13 : 00~14 : 00)

- \* 12:50-13:00: interval for laptop PC connection.(3C5-25, 3C5-26, 3C5-27, 3C5-29, 3C5-30)
- 3C5-25** Interaction of DNA and metal-coordinated polymer : influence of molecular structure (Fac. Sci., Tokyo Univ. of Sci.) FUJIKURA, Hirofumi; TAKAHASHI, Riichi; OTSUKA, Hidenori
- 3C5-26** Molecular incorporation by amphiphilic polymer grafted with polycarbonate evaluation of polymer aggregation with polycarbonate derivative (Konan University) NITTA, Kyohei; KIMOTO, Atsushi; WATANABE, Junji; IKEDA, Yoshiyuki
- 3C5-27\*** Synthesis and material characteristics of oligoether with cationic unit (ZEON CORPORATION) OHTA, Keisuke; HAYANO, Shigetaka; TSUNOGAE, Yasuo; MATSUBARA, Tetsuaki
- 3C5-29** Synthesis and characterization of bio-based self-healing furan polymers (IIS, The Univ. of Tokyo) ZENG, Chao; REN, Jie; HATANAKA, Kenichi; YOSHIE, Naoko
- 3C5-30** Copolymerization of bio-based self-healing polymers for property control (Inst. of Industrial Science, Univ. of Tokyo) IKEZAKI, Tabito; HATANAKA, Kenichi; YOSHIE, Naoko

Chair: NAKA, Kensuke (14 : 10~15 : 10)

- \* 14:00-14:10: interval for laptop PC connection.(3C5-32)
- 3C5-32 CSJ Award for Creative Works** Studies on Elucidation of Gelation-mechanism of Low Molecular Weight Compounds and Development of Gelators (Shinshu Univ.) HANABUSA, Kenji

Chair: OOYA, Tooru (15 : 20~16 : 20)

- \* 15:10-15:20: interval for laptop PC connection.(3C5-39, 3C5-42, 3C5-43, 3C5-44)
- 3C5-39 Young Scholar Lectures of CSJ** Preparation of chitin nanofibers from crab shell and their applications (Graduate School of Engineering, Tottori University) Ifuku, Shinsuke
- 3C5-42** Synthesis of the block copolymers consisting of thermoresponsive polymer chains and water-soluble polymer chains and their polymer micelle formation in the presence of organic substrates (Kinki Univ.) HANANO, Keisuke; ISHIFUNE, Manabu
- 3C5-43** Particle Size Control of Self-Assemblies Consisting of Amphiphilic Janus Brush-Like Polymers and Their Application to Tumor Imaging (Graduate School of Engineering, Kyoto University) MIKI, Koji; HASHIMOTO, Hiroki; MATSUOKA, Hideki; HARADA, Hiroshi; HIRAOKA, Masahiro; OHE, Kouichi
- 3C5-44** Synthesis of near-infrared fluorescent dye-containing hyaluronic acids and *in vivo* kinetics of their self-assemblies. (Graduate School of Engineering, Kyoto University; Corporate R&D Headquarters, Canon Inc.) MIKI, Koji; INOUE, Tatsuhiko; KOBAYASHI, Yasuhito; NAKANO, Katsuya; MATSUOKA, Hideki; YAMAUCHI, Fumio; YANO, Tetsuya; OHE, Kouichi

Chair: MIKI, Koji (16 : 30~17 : 30)

- \* 16:20-16:30: interval for laptop PC connection.(3C5-46, 3C5-47, 3C5-48, 3C5-49, 3C5-50, 3C5-51)
- 3C5-46** Preparation of Nanofibers Through Regeneration from Chitin Ion Gels (Kagoshima Univ.) TAJIRI, Rie; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi
- 3C5-47** Enzymatic synthesis of stereoisomeric saccharide chains of chitin/chitosan (Kagoshima Univ.) KADOKAWA, Jun-ichi; TAKEMOTO, Yasutaka; YAMAMOTO, Kazuya
- 3C5-48** Preparation of xanthan gum films using ionic liquid (Kagoshima Univ.) SETOYAMA, Miwa; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi
- 3C5-49** Preparation of fucoidans with different sulfation degree (Tottori Univ.) NAKAEMA, Seiya; NISHIWAKI, Kazuki; KAWAMOTO, Hitoshi; MINAMI, Saburo; IZAWA, Hironori; IFUKU, Shinsuke; MORIMOTO, Minoru; SAIMOTO, Hiroyuki
- 3C5-50** Formation of microtubule assemblies with various morphology at air-buffer interface (School of Science, Hokkaido University) WADA, Shoki; Arif MD. Rashedul, Kabir; ITO, Masaki; INOUE, Daisuke; SADA, Kazuki; KAKUGO, Akira
- 3C5-51\*** An Electrochemically Switchable Organic Conducting Biomaterial toward Dynamic Coupling with Cells and Tissues (RIKEN Advanced Science Institute Yu Initiative Research Unit) LIN, Hsing-an

## Monday, March 25, AM

Chair: OYAMA, Toshiyuki (9 : 40 ~10 : 30)

- \* 9:30-9:40: interval for laptop PC connection.(4C5-05, 4C5-07, 4C5-08)
- 4C5-05\*** Molecular imprinting of proteins by surface-initiated activator generated by electron transfer atom transfer radical polymerization (SI-AGET ATRP) (Graduate School of Engineering, Kobe University) KAMON, Yuri; KITAYAMA, Yukiya; OOYA, Tooru; TAKEUCHI, Toshifumi
- 4C5-07** Formation of Supramolecular Hydrogel using Inclusion Complexes and Shape Recovery Property (Graduate School of Science, Osaka



University) KAKUTA, Takahiro; TAKASHIMA, Yoshinori; NAKAHATA, Masaki; YAMAGUCHI, Hiroyasu; HARADA, Akira

**4C5-08\*** novel hybridization methods of inorganic matters to hydrogels for enhancing the strength and functionality (RIES, Hokkaido University; JST-CREST; ASL, RIKEN) MITOMO, Hideyuki; SHIMAMOTO, Naonobu; SANO, Ken-ichi; OSADA, Yoshihito; IJIRO, Kuniharu

Chair: TAKASHIMA, Yoshinori (10 : 40~11 : 30)

\* 10:30-10:40: interval for laptop PC connection.(4C5-11, 4C5-12, 4C5-13, 4C5-14)

**4C5-11** Synthesis and Reactions of Organometallic Polymers Containing Ferrocene and Titanacyclopentadiene Units. (MSL, Tokyo Tech) LEE, Jonghyeok; INAGI, Shinsuke; TOMITA, Ikuyoshi

**4C5-12** Synthesis of  $\pi$ -Conjugated Polymers Containing Bismol Units in the Main Chain by Reaction of Organometallic Polymers Having Titanacyclopentadiene Units (Tokyo inst. of tech.) MATSUMURA, Yoshimasa; INAGI, Shinsuke; TOMITA, Ikuyoshi

**4C5-13** Synthesis of Tellurium-Containing Polymers by Reactions of Acetylene-Containing  $\pi$ -Conjugated Polymers (Tokyo Institute of Technology Interdisciplinary Graduate School of Science and Engineering Department of Electronic Chemistry) SUTO, Takeru; INAGI, Shinsuke; TOMITA, Ikuyoshi

**4C5-14\*** Modification of Lewis Basic Conjugated Polymers via Lewis Acid Vapor Treatment (National Defense Academy, Department of Applied Chemistry) HAYASHI, Shotaro; KOIZUMI, Toshio

Chair: HAYASHI, Shotaro (11 : 40~12 : 20)

\* 11:30-11:40: interval for laptop PC connection.(4C5-17, 4C5-19, 4C5-20)

**4C5-17\*** Dynamic Exchange Reaction of Polypeptide Side Chains Using Imine Bonds (Yokohama National Univ.) OYAMA, Toshiyuki; ENDO, Keiichi; TAKAHASHI, Akio

**4C5-19** Development of oxidatively degradable curing agent for epoxy resin (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) OGURI, Takahiro; KIHARA, Nobuhiro

**4C5-20** Development of oxidatively degradable polymer that can be degraded without water. (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) NAKAYAMA, Shota; KIHARA, Nobuhiro

## Room C6

### FOREST HOUSE F106

### Polymer

#### Friday, March 22, AM

Chair: NAKANO, Koji (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(1C6-01, 1C6-03, 1C6-05, 1C6-06)

**1C6-01\*** Smart Precision Radical Polymerization Mediated by In Situ Monomer Generation: Functional Gradient Copolymers and In-Chain CycloPEG Polymers (Graduate School of Eng. Kyoto Univ.) TERASHIMA, Takaya; SAWAMOTO, Mitsuo

**1C6-03\*** Atom transfer radical polymerization catalyzed by hematin of enzyme mimetic compound (Kagoshima Univ.) YAMASHITA, Kazuya; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi

**1C6-05** Lithiation behavior of polystyrene derivatives by *s*-BuLi in the presence of TMEDA (Kyoto Inst, Tech.) ONO, Hiroto; ADACHI, Kaoru; TSUKAHARA, Yasuhisa

**1C6-06** Effect of solvents on lithiation of poly(*p*-methylstyrene) by *s*-BuLi in the presence of TMEDA (Kyoto Inst, Tech) IMAMURA, Yasuyuki; ADACHI, Kaoru; TSUKAHARA, Yasuhisa

Chair: AJIRO, Hiroharu (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(1C6-08, 1C6-10, 1C6-11)

**1C6-08\***  $\omega$ -End functionalization of polymers *via* termination reaction for anionic polymerization by highly active allyl halides (Grad. Schl. of Engineering Science, Osaka Univ.) KOHSAKA, Yasuhiro; KURATA, Takashi; OKADA, Yasuyuki; KITAYAMA, Tatsuki

**1C6-10** Copolymerization of Epoxides with Carbon Dioxide: Analysis of Reaction Mechanism (Univ. of Tokyo, Graduate School of Engineering) OHKAWARA, Takahiro; NAKANO, Koji; NOZAKI, Kyoko

**1C6-11 CSJ Award for Young Chemists** Development of Metal Catalysts for Copolymerization of Cyclic Ether Derivatives with C1 Compounds (Tokyo Univ. of A & T) NAKANO, Koji

Chair: TERASHIMA, Takaya (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(1C6-15, 1C6-17, 1C6-18, 1C6-20)

**1C6-15\*** Block copolymerization of olefins and methyl methacrylate catalyzed by fluorenylamidotitanium complex (Hiroshima Univ.) TANAKA, Ryo; NAKAYAMA, Yuushou; SHIONO, Takeshi

**1C6-17** Synthesis and Electrochemical Properties of Radical Polymers

Possessing Nitroxide Moieties Based on Coordination Polymerization of Allene Derivatives (MSL, Tokyo Tech) EGUCHI, Hiroshi; INAGI, Shinsuke; TOMITA, Ikuyoshi

**1C6-18\*** Functional Polyolefin Synthesis Using Cationic Palladium Complexes Ligated by a Bisphosphine Monoxide. (Sch. Eng., The Univ. of Tokyo) CARROW, Brad P.; NOZAKI, Kyoko

**1C6-20** Probing Ligand Electronic and Steric Effects in Cationic Bisphosphine Monoxide-Palladium Complexes for Functional Polyolefin Synthesis (Sch. Eng., The Univ. of Tokyo) MITSUSHIGE, Yusuke; CARROW, Brad P.; NOZAKI, Kyoko

#### Friday, March 22, PM

Chair: UCHIDA, Satoshi (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(1C6-28, 1C6-29, 1C6-30, 1C6-31, 1C6-32, 1C6-33)

**1C6-28** Synthesis of copolymer using trimethylene carbonate derivative which supplies thermosensitive polymer (Osaka University; MEI center) AJIRO, Hiroharu; TAKAHASHI, Yoshikazu; AKASHI, Mitsuru

**1C6-29** Synthesis of Poly(amino acid) by Ring-Opening Polymerization of 1,3-Oxazolidin-5-one Derivatives along with Liberating Hexafluoroacetone (Nagoya Institute of Technology) SUZUKI, Masato; GOTO, Tomoaki; MATSUOKA, Shin-ichi; TAKAGI, Koji

**1C6-30** Formation Mechanism of Linear Poly(phenylene sulfide) by Oxidative Polymerization. (Dept of Appl. Chem., Waseda Univ.) KIYOKAWA, Daichi; TAKATORI, Yohei; OYAIZU, Kenichi; NISHIDE, Hiroyuki

**1C6-31** Catalytic Mechanism of Vanadyl Complexes in Oxidative Polymerization of Disulfides under Melt Conditions. (Dept of Appl. Chem., Waseda Univ.) NAGAMATSU, Kentaro; TAKATORI, Yohei; OHTANI, Shota; OYAIZU, Kenichi; NISHIDE, Hiroyuki

**1C6-32** Copper(I)-Catalyzed Azide-Alkyne Cycloaddition Polymerization of 3-Azido-1-propyne Derivatives (Osaka Univ.) HASHIDZUME, Akihiro; NAKAMURA, Tomoaki; SATO, Takahiro

**1C6-33** The effect of water on Suzuki-Miyaura coupling catalyst-transfer condensation polymerization (Kanagawa Univ; Department of Material and Life Chemistry) KOSAKA, Kentarou; OHTA, Yoshihiro; YOKOZAWA, Tsutomu

Chair: UCHIDA, Satoshi (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(1C6-35, 1C6-36, 1C6-37, 1C6-38, 1C6-39, 1C6-40)

**1C6-35** Double-end Functionalization of polyfluorene by means of Catalyst-Transfer Suzuki-Miyaura Coupling Polymerization with a Pd Initiator Generated *in situ* (Kanagawa Univ; Department of Material and Life Chemistry) YASUE, Akira; OHTA, Yoshihiro; YOKOZAWA, Tsutomu; TANAKA, Kenta; HIGASHIMURA, Hideyuki

**1C6-36** Investigation of Model Reactions for Catalyst-Transfer Polymerization of a Pyridine-Thiophene Monomer (Kanagawa Univ; Department of Material and Life Chemistry) KATOH, Masaru; OHTA, Yoshihiro; YOKOZAWA, Tsutomu

**1C6-37** Investigation of Catalyst-Transfer Condensation Polymerization of Monomers with Conjugation between C-C Double Bond. (Kanagawa Univ; Department of Material and Life Chemistry) NOJIMA, Masataka; OHTA, Yoshihiro; YOKOZAWA, Tsutomu

**1C6-38** Highly Efficient Direct Arylation Polycondensation reaction using Microwave irradiation (Univ. of Tsukuba) CHOI, Seongjib; KUWABARA, Junpei; KANBARA, Takaki

**1C6-39** Synthesis of various  $\pi$ -conjugated polymer thin films by electrochemical polymerization of oligomers having both thiophene and various heterole units (MSL, Tokyo Tech) KAWAMATA, Shiori; INAGI, Shinsuke; NISHIYAMA, Hiroki; TOMITA, Ikuyoshi

**1C6-40** Preparation of Polyurethanes Composed of Cyclic Origosiloxanes Bearing Several Reactive Functional Groups as Curing Agents (Fac. of Systems Engineering, Wakayama Univ.) IDETA, Naoya; OSUGA, Hideji; KIMURA, Keiichi; SAKAMOTO, Hidefumi

Chair: MORISAKI, Yasuhiro (15 : 50~16 : 50)

\* 15:40-15:50: interval for laptop PC connection.(1C6-42, 1C6-43, 1C6-45, 1C6-46, 1C6-47)

**1C6-42\*** Catalyst-free surface modification using an orthogonal functionalizing agent (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) CHEAWCHAN, Sumitra; KOYAMA, Yasuhito; OGAWA, Takahiro; UCHIDA, Satoshi; TAKATA, Toshikazu

**1C6-43\*** Synthesis of Highly Reactive Polymer Nitrile *N*-Oxide and Its Application to Catalyst-free Grafting-Onto Reaction (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) WANG, Chen-gang; KOYAMA, Yasuhito; UCHIDA, Satoshi; TAKATA, Toshikazu

**1C6-45** Grafting of antibacterial and antifungal polymer onto silica nanoparticle surface and their properties (Grad. Sch. of Sci. and Technol., Niigata Univ.) KAWAHARA, Takashi; YAMAZAKI, Yuji; YAMAUCHI, Takeshi; TSUBOKAWA, Norio

**1C6-46** Block Copolymerization of 1,3-Butadiene and Allene Derivatives Having Polar Functional Groups (MSL, Tokyo Tech) FUJIWARA, Kiyotaka; INAGI, Shinsuke; TOMITA, Ikuyoshi

**1C6-47** Synthesis of Cross-linked Polymer Particles by Living Dispersion

Coordination Polymerization (MSL, Tokyo Tech) YAMAUCHI, Akira; OMURA, Takahiro; YAMAUCHI, Hiroshi; INAGI, Shinsuke; TOMITA, Ikuyoshi

Chair: KOHSAKA, Yasuhiro (17 : 00~18 : 00)

- \* 16:50-17:00: interval for laptop PC connection.(1C6-49, 1C6-50, 1C6-51, 1C6-52, 1C6-53)
- 1C6-49** Synthesis of star polyoxazolines with resorcinol condensed macrocyclic cores (Kanagawa Univ) SATO, Tomoharu; ARAYI, Yoshiaki; KIHARA, Kousuke; JIN, Ren-hua
- 1C6-50** Amphiphilic star polymers with amino acids residues in the arms (Kanagawa Univ) KIHARA, Kousuke; JIN, Ren-hua
- 1C6-51** Convenient generation growth of polyacrylate dendrimers based on AMA reaction (Graduate school of Chemical Sciences and Technology, Tokyo Univ. of Sci.) ENDO, Taito; ICHIMURA, Kunihiro; AOKI, Ken'ichi
- 1C6-52** Synthesis of star polyisoprene by living anionic polymerization with lithiated alkyl multisubstituted aromatic compound as multifunctional initiator (Kyoto Inst. Tech.) SHIMIZU, Ryo; ADACHI, Kaoru; TSUKAHARA, Yasuhisa
- 1C6-53\*** Synthesis and rheological properties of multibranching polystyrenes via macroinitiator method (Kyoto Inst. Tech.) KUBOTA, Daisuke; ADACHI, Kaoru; TSUKAHARA, Yasuhisa

### Saturday, March 23, AM

Chair: INAGI, Shinsuke (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2C6-01, 2C6-03, 2C6-04, 2C6-05, 2C6-06)
- 2C6-01\*** Synthesis and Properties of Novel  $\pi$ -Conjugated Polymers Based on Carborane Structure (Graduate School of Engineering, Kyoto University) TOMINAGA, Masato; MORISAKI, Yasuhiro; CHUJO, Yoshiki
- 2C6-03** Precise Control of Distance between Regiospecifically Accumulated Porphyrins on Microphase Segregation Interface (KIT) TOKUOKA, Takashi; AOTANI, Masashi; ASAOKA, Sadayuki
- 2C6-04** Microphase segregated nanostructure of star-shaped amphiphilic liquid crystalline block copolymer with porphyrin core. (KIT) TAKAHASHI, Mitsuharu; YAMADA, Syunnsuke; AOTANI, Masashi; ASAOKA, Sadayuki
- 2C6-05** Synthesis of Pyrene-Layered Polymer (Graduate School of Engineering, Kyoto University) SHIBATA, Shotaro; NAKANO, Tatsuya; MORISAKI, Yasuhiro; CHUJO, Yoshiki
- 2C6-06** Construction of optically active through-space conjugated systems containing planar chiral cyclophanes (Graduate School of Engineering, Kyoto University) INOSHITA, Kenichi; MORISAKI, Yasuhiro; CHUJO, Yoshiki

Chair: KOHRI, Michinari (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(2C6-08, 2C6-10, 2C6-12, 2C6-13)
- 2C6-08\*** Synthesis of aromatic ring-layered structures by the polymer reaction. (Graduate School of Engineering, Kyoto University) TSUJI, Yuichi; MORISAKI, Yasuhiro; CHUJO, Yoshiki
- 2C6-10\*** Synthesis and Properties of Hexabenzocoronene-layered Polymers (Graduate School of Engineering, Kyoto University) NAKANO, Tatsuya; MORISAKI, Yasuhiro; CHUJO, Yoshiki
- 2C6-12** Synthesis of Polymers Containing Tetra-coordinated Gallium Atoms in Their Main Chains (Kyoto University) ONISHI, Yoshinobu; MATSUMOTO, Takuya; TANAKA, Kazuo; CHUJO, Yoshiki
- 2C6-13** Precision Synthesis and Application of Magnetic Polar Polymer Particles by Living Coordination Dispersion Polymerization (MSL, Tokyo Tech) SUZUMURA, Yusei; OMURA, Takahiro; YAMAUCHI, Hiroshi; INAGI, Shinsuke; TOMITA, Ikuyoshi

Chair: YAMAMOTO, Kazuya (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(2C6-15, 2C6-16, 2C6-17, 2C6-18)
- 2C6-15** Synthesis of Polymer Particles Having Unique Surface Based on Living Coordination Dispersion Copolymerization (MSL, Tokyo Tech) OKUMURA, Harumi; OMURA, Takahiro; YAMAUCHI, Hiroshi; INAGI, Shinsuke; TOMITA, Ikuyoshi
- 2C6-16** Creation of hollow nanosilica particles based on living coordination block copolymerization of alkoxy-silyl-substituted allene leading to the spontaneous formation of nanostructures (Tokyo Inst. of Tech. Interdisciplinary Graduate School of Science and Engineering) NAKANISHI, Hiroki; OMURA, Takahiro; YAMAUCHI, Hiroshi; INAGI, Shinsuke; TOMITA, Ikuyoshi
- 2C6-17** Synthesis of P-stereogenic oligomer (Graduate School of Engineering, Kyoto University) SUGIYAMA, Kazuhiro; MORISAKI, Yasuhiro; CHUJO, Yoshiki
- 2C6-18** Young Scholar Lectures of CSJ Preparation and surface-modification of polymer particles by enzymatic polymerization (Chiba University) Kohri, Michinari

### Saturday, March 23, PM

Chair: ITO, Shingo (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(2C6-28, 2C6-30, 2C6-31, 2C6-33)
- 2C6-28\*** Functional Star Polymers via Living Radical Polymerization: Precision Control of Cross-Linked Space toward Unique Function (Graduate School of Eng. Kyoto Univ.) TERASHIMA, Takaya; SAWAMOTO, Mitsuo
- 2C6-30** Synthesis of Block-Type Star-Shaped Polymer Using [2]Rotaxane Block Macromonomer (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) MATSUO, Tomoaki; AOKI, Daisuke; KOYAMA, Yasuhito; UCHIDA, Satoshi; TAKATA, Toshikazu
- 2C6-31\*** Synthesis of branched polymers based on macromolecular [2] rotaxanes bearing a movable junction point (Dept. of Organic and Polymeric Materials, Tokyo Institute of Technology) UCHIDA, Satoshi; AOKI, Daisuke; KOYAMA, Yasuhito; NAKAZONO, Kazuko; TAKATA, Toshikazu
- 2C6-33** Synthesis of Novel Conjugated Polymer Based on the Fused Benzocarborane Unit (Graduate School of Engineering, Kyoto University) NISHINO, Kenta; TOMINAGA, Masato; MORISAKI, Yasuhiro; CHUJO, Yoshiki

Chair: UCHIDA, Satoshi (14 : 40~15 : 50)

- \* 14:30-14:40: interval for laptop PC connection.(2C6-35, 2C6-36, 2C6-37, 2C6-38, 2C6-39, 2C6-40, 2C6-41)
- 2C6-35** Surface modification of carbon nanotube with *s*-BuLi and polymer composites thereof. (Kyoto Inst. Tech.) SUN, Long; ADACHI, Kaoru; TSUKAHARA, Yasuhisa
- 2C6-36\*** Synthesis and Characterization of Fe/Cu-Based Organic-Heterometallic Hybrid Polymers (NIMS; JST-CREST) HOSSAIN, Md.Delwar; HIGUCHI, Masayoshi
- 2C6-37** Syntheses and properties of imide-linked dumbbell-shaped POSS derivatives (Grad. Sch. of sci. and Tech., Kyoto Inst. of Tech.) YASUMOTO, Yuta; NAKA, Kensuke
- 2C6-38** Synthesis of sulfur-bridging POSS network polymers (Graduate School of Engineering, Kyoto University) YAMANE, Honami; TANAKA, Kazuo; CHUJO, Yoshiki
- 2C6-39** Synthesis of a Poly(phenylacetylene) Derivative Bearing a Crown Ether and a Biphenyl Group as the Pendant and Helicity Induction and Memory in the Polymer (Kanazawa University) MINAMIKAWA, Tomoya; MAEDA, Katsuhiko; IKAI, Tomoyuki; KANO, Shigeyoshi
- 2C6-40\*** Kinetics and Stereochemical Control of 3-Hexylthiophene Polymerization Initiated by FeCl<sub>3</sub> (Kochi Univ. of Technology; School of Environmental Science and Engineering) LIU, Yi; SAIGO, Kazuhiko; NISHIWAKI, Nagatoshi; SUGIMOTO, Ryuichi
- 2C6-41** Construction of Well-Organized Assemblies of Dendrimers by Iterative Divergent/Convergent Methods (Graduate School of Science, Osaka City University) NISHIOKA, Saori; MORITA, Shirou; KOZAKI, Masatoshi; SUZUKI, Shuichi; OKADA, Keiji

Chair: MAEDA, Katsuhiko (16 : 00~17 : 10)

- \* 15:50-16:00: interval for laptop PC connection.(2C6-43, 2C6-44, 2C6-45, 2C6-46, 2C6-47, 2C6-48, 2C6-49)
- 2C6-43** Stereoselective Inclusion Behavior of Amylose toward Poly(3-hydroxybutyrate)s in Vine-twining Polymerization (Kagoshima Univ.) OKAWABATA, Sachie; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi
- 2C6-44** Study on formation behavior of amylose inclusion complex on polyTHF interface in vine-twining polymerization (Kagoshima Univ.) YAMAMOTO, Kazuya; HARIHARA, Makoto; YOSHIOKA, Asami; KADOKAWA, Jun-ichi
- 2C6-45** Preparation of supramolecular films through inclusion of amylose by vine-twining polymerization (Kagoshima Univ.) KADOKAWA, Jun-ichi; NOMURA, Shintaro; YAMAMOTO, Kazuya
- 2C6-46** Radical Polymerization of Olefins having an Electron-Withdrawing Group using a Palladium/Photoirradiation Combined System (Graduate School of Science, Osaka Prefecture University) SUMINO, Shuhei; RYU, Ilhyong
- 2C6-47** Scandium-Catalyzed Syndiotactic Polymerization of Styrene with Anisoles as Chain Transfer Agents (RIKEN; Saitama University) YAMAMOTO, Atsushi; OYAMADA, Juzo; NISHIURA, Masayoshi; HOU, Zhaomin
- 2C6-48** Formal Aryne Polymerization (Univ. of Tokyo; Graduate School of Engineering) TAKAHASHI, Keisuke; ITO, Shingo; NOZAKI, Kyoko
- 2C6-49** Ring-opening copolymerization of cyclic esters catalyzed by iron(III) triflate (Hiroshima Univ.) OMORI, Toshihiko; TANAKA, Ryo; NAKAYAMA, Yuushou; SHIONO, Takeshi

### Asian International Symposium - Polymer -

#### Sunday, March 24, PM

Chair: Masami Kamigaito (13 : 00~13 : 50)

- 3C6-25\*** Keynote Lecture Synthesis and Chiral Recognition of Helical Poly(phenylacetylene) Derivatives Bearing Chiral Side Chains (Harbin Eng.

Univ. China) Zhang Chunhong (13:00~13:30)

- 3C6-28<sup>#</sup> Invited Lecture** New approach to asymmetric polymerizations of substituted phenylacetylenes to yield static one-handed helical polymers (Niigata Univ.) Yu Zang; Masahiro Teraguchi; Takashi Kaneko; Toshiaki Aoki (13:30~13:50)

Chair: Eiji Ihara (13 : 50~14 : 50)

- 3C6-30<sup>#</sup> Invited Lecture** Sequence-Regulated Vinyl Polymers by Transition Metal-Catalyzed Step-Growth Radical Polymerization (Nagoya Univ.) Kotaro Satoh (13:50~14:10)

- 3C6-32<sup>#</sup> Invited Lecture** Precision Synthesis of Sequence-Controlled Polymer Chains (Kyoto Univ.) Makoto Ouchi (14:10~14:30)

- 3C6-34<sup>#</sup> Invited Lecture** Precise Synthesis of Miktoarm Star-branched Polymers by Means of Living Anionic Polymerization (Tokyo Institute of Technology) Raita Goseki; Emi Akemine; Akira Hirao (14:30~14:50)

Chair: Toshiaki Aoki (14 : 50~15 : 30)

- 3C6-36<sup>#</sup> Invited Lecture** Highly Ordered Alignment of Vinyl Polymer Chains by Host-Guest Cross-Polymerization (Kyoto Univ.) Takashi Uemura (14:50~15:10)

- 3C6-38<sup>#</sup> Invited Lecture** Function and Synthesis of Covalent Bond-based Porous Polymer (Institute for Molecular Science) Atsushi Nagai (15:10~15:30)

Chair: Akira Hirao (15 : 30~16 : 40)

- 3C6-40<sup>#</sup> Keynote Lecture** Micropatterning of polymer composites with conductive nanomaterials and their use for stretchable electronics (Yonsei Univ., Korea) Unyong Jeong; Minwoo Park (15:30~16:00)

- 3C6-43<sup>#</sup> Invited Lecture** Development of POSS fillers for regulating refractive indices of polymers (Kyoto Univ.) Kazuo Tanaka; Yoshiki Chujo (16:00~16:20)

- 3C6-45<sup>#</sup> Invited Lecture** Precision Synthesis of Tailor-made Polythiophene-based Materials and Their Application to Organic Solar Cells (Tokyo Institute of Technology) Tomoya Higashihara (16:20~16:40)

Chair: Akon Higuchi (16 : 40~17 : 30)

- 3C6-47<sup>#</sup> Keynote Lecture** Bioinert surface grafted with Zwitterionic Polymer Brushes (Chung Yuan Christian Univ., Taiwan) Yung Chang (16:40~17:10)

- 3C6-50<sup>#</sup> Invited Lecture** Design of hydrogel-based biomaterials for regenerative medicine (Kyoto Univ.) Masaya Yamamoto; Yasuhiko Tabata (17:10~17:30)

## Natural Products Chemistry

### Monday, March 25, AM

Chair: UMEZAWA, Taiki (9 : 00 ~10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(4C6-01, 4C6-02, 4C6-03, 4C6-04, 4C6-05, 4C6-06)

- 4C6-01** Synthetic Studies on Presporolide (Graduate School of Science, Tohoku University) TERAYAMA, Kanae; OZEKI, Eri; YAMASHITA, Shuji; HAYASHI, Yujiro; HIRAMA, Masahiro

- 4C6-02** Synthetic Study of Kedarcidin Chromophore (Graduate School of Science, Tohoku University) HIRAI, Keiichiro; OGAWA, Kouki; SATO, Itaru; HIRAMA, Masahiro; HAYASHI, Yujiro

- 4C6-03** p-Benzoyne Monochlorination : Dual Pathways and Synthetic Study of Cyanosporosides A and B (Graduate School of Science, Tohoku University) YAMADA, Kei; YAMASHITA, Syuji; SATO, Itaru; HAYASHI, Yujiro; HIRAMA, Masahiro

- 4C6-04** Synthetic Studies on Didemnaketal B: Total Synthesis of the Proposed Structure. (Graduate School of Life Sciences, Tohoku Univ.) SEKINE, Kumiko; FUWA, Haruhiko; SASAKI, Makoto

- 4C6-05** Studies directed toward the total synthesis of dysispherbaine (Osaka Institute of Technology) KOBAYASHI, Shoji; KURODA, Hiroyuki; SAKA, Tomoaki; MASUYAMA, Araki

- 4C6-06** Synthetic Study of the core moiety of laurenynes utilizing oxy-Favorskii rearrangement (Faculty of Engineering, Osaka Institute of Technology) INOUE, Tomoharu; KOBAYASHI, Shoji; MASUYAMA, Araki

Chair: SATO, Itaru (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(4C6-08, 4C6-09, 4C6-10, 4C6-11, 4C6-12, 4C6-13)

- 4C6-08** Synthetic Study on Mytilipin C (Hokkaido University) UMEZAWA, Taiki; SEINO, Tomoya; MATSUDA, Fuyuhiko

- 4C6-09** Construction of the Ether Linkage between the Lipid Cahins of Nigriganoside A Dimethyl Ester (Faculty of Sci., Hokkaido Univ.; Grad. Sch. Chem. Sci. Eng., Hokkaido Univ.) KINASHI, Naoto; FUJIWARA, Kenshu; KATOONO, Ryo; KAWAI, Hidetoshi; SUZUKI, Takanori

- 4C6-10** Minor Bioactive Compounds from *Halichondria okadai* (Kanagawa Univ. Dept. of Chemical) YAMAMOTO, Keita; MARU, Norihito; KAWAZOE, Yoshinori; UEMURA, Daisuke

- 4C6-11** Synthetic study of labeled- $\alpha$ -galactosylceramide for the purpose of X-ray analysis of its precise structure in CD1d complex (Osaka Univ.)

NOMURA, Takuto; TSUCHIKAWA, Hiroshi; MATSUMORI, Nobuaki; MURATA, Michio

- 4C6-12** Synthetic study of cardiolipin from bacteria (Osaka Univ.) TAKAMATSU, Masayuki; ASADA, Saori; FUJIMOTO, Yukari; FUKASE, Koichi

- 4C6-13** Structure and biological activity of tomuruline, a novel thiazole compound isolated from a marine alga (Keio University, University of Ryukyus) OHNO, Osamu; SAME, Kyouhei; TERUYA, Toshiaki; SIMIZU, Siro; SUENAGA, Kiyotake

Chair: TSUKANO, Chihiro (11 : 20~11 : 50)

\* 11:10-11:20: interval for laptop PC connection.(4C6-15, 4C6-16, 4C6-17)

- 4C6-15** Study toward Total Synthesis of Arthrotrisin. (Kobe Univ.) ASADA, Naoki; MATSUBARA, Ryosuke

- 4C6-16** Total Synthesis of Maresin 1 (Tokyo Institute of Technology; Department of Biomolecular Engineering) TOJO, Toshifumi; KOBAYASHI, Yuichi

- 4C6-17** Formal Total Synthesis of Optically Active Medermycin by the Use of Rh-catalyzed C-H Bond Activation (Tokyo Institute of Technology) HATA, Takeshi; KATSUMI, Keiichiro; URABE, Hirokazu

## Room D1 FOREST HOUSE F108

### Natural Products Chemistry

#### Friday, March 22, AM

Chair: ISHIKAWA, Yuichi (10 : 50~11 : 50)

\* 10:40-10:50: interval for laptop PC connection.(1D1-12, 1D1-13, 1D1-14, 1D1-16, 1D1-17)

- 1D1-12** Toward the second generation synthesis of aplyronine A. (Univ. of Tsukuba) MATSUMOTO, Sachiko; KOBAYASHI, Shinichi; KOBAYASHI, Kenichi; FUJII, Yusuke; HAYAKAWA, Ichiro; KIGOSHI, Hideo

- 1D1-13** Synthetic Studies of Mycalolide B, an Actin-depolymerizing Marine Macrolide (Univ. of Tsukuba) OKA, Hirotaka; TSUNODA, Masaki; USUI, Akihiro; ISHITSUKA, Tomoya; KITA, Masaki; KIGOSHI, Hideo

- 1D1-14\*** Asymmetric Total Synthesis of AMF-26 by the Computer-assisted Predictive Stereoselective Intramolecular Diels-Alder (CAPS-IMDA) reaction (Tokyo Univ. of Science) UMEZAKI, Yuma; SHIINA, Isamu

- 1D1-16** Asymmetric Total Synthesis of Peroxybotcinin Derivatives (Tokyo Univ. of Science) UMEZAKI, Yuma; OKUYAMA, Hiroshi; SHIINA, Isamu

- 1D1-17** Systematic Total Synthesis of Nonactin Derivatives (Tokyo Univ. of Science) UMEZAKI, Yuma; OUCHI, Mizue; SHIINA, Isamu

#### Friday, March 22, PM

Chair: OGURI, Hiroki (13 : 00~13 : 30)

\* 12:50-13:00: interval for laptop PC connection.(1D1-25)

- 1D1-25** Young Scholar Lectures of CSJ Convenient VCD Method to Determine Molecular Stereochemistry: from Natural Products to Supramolecules (Faculty of Advanced Life Science, Hokkaido University) Taniguchi, Tohru

Chair: KUDO, Fumitaka (13 : 40~14 : 40)

\* 13:30-13:40: interval for laptop PC connection.(1D1-29, 1D1-30, 1D1-31, 1D1-32, 1D1-33, 1D1-34)

- 1D1-29** Study of Bioactive Substances Isolated from Leaves of The Order *Lamiales* Plants. (Kagoshima Univ.) MORIKAWA, Shio; HIRATA, Mistunobu; TORIZUKA, Maria; IWAGAWA, Tetsuo; OKAMURA, Hiroaki; HAMADA, Toshiyuki

- 1D1-30** Studies on secondary metabolites in *Trema cannabina* Lour. (Grad. Sch. Sci., Eng., Kagoshima Univ.) SUGITA, Rie; TACHUYUKI, Kota; IWAGAWA, Tetsuo; OKAMURA, Hiroaki; HAMADA, Toshiyuki

- 1D1-31** Search for calyculin A binding protein from the marine sponge *Discodermia calyx* (Univ. of Tokyo; School of science) MIYAKE, Haruko; FUKUZAWA, Seketsu; TACHIBANA, Kazuo

- 1D1-32** Chemical studies on calcium translocation from avian eggshell to chick embryo (Faculty of Science and Technology, Keio University) ITO, Taku; KATO, Suguru; SAIKAWA, Yoko; NAKATA, Masaya

- 1D1-33** Studies on secondary metabolites from the Sea hares, *Bursatella leachii* (Kagoshima Univ.) YOSHII, Kazushi; NISHI, Kazutoshi; HIRATA, Mitunobu; HARADA, Daisuke; SUGITA, Rie; IWAGAWA, Tetsuo; OKAMURA, Hiroaki; HAMADA, Toshiyuki

- 1D1-34** Studies on secondary metabolites in Malaysian marine sponge. (Grad. Sch. Sci., Eng., Kagoshima Univ.) HARADA, Daisuke; HIRATA, Mitsunobu; IWAGAWA, Tetsuo; OKAMURA, Hiroaki; HAMADA, Toshiyuki; VAIRAPPAN, Charles

Chair: KITA, Masaki (17 : 10~18 : 10)

\* 17:00-17:10: interval for laptop PC connection.(1D1-50, 1D1-51, 1D1-52,

1D1-53, 1D1-54, 1D1-55)

- 1D1-50** Biosynthetic study of ionophore polyether; Functional analysis of flavin-dependent monooxygenase involved in lasalocid biosynthesis (Graduate School of Chemical Science and Engineering, Hokkaido University) SUZUKI, Gaku; MINAMI, Atsushi; OGURI, Hiroki; OIKAWA, Hideaki
- 1D1-51** Biosynthetic study of ionophore polyether : Functional analysis of flavin-dependent monooxygenase and epoxide hydrolase (Graduate School of Chemical Sciences and Engineering, Hokkaido University) SATO, Kyohei; MINAMI, Atsushi; OGURI, Hiroki; OIKAWA, Hideaki
- 1D1-52** Discovery of novel terpenoid by genome mining approach : Functional analysis of ophiobolin F synthase (Graduate School of Chemical Sciences and Engineering, Hokkaido University) CHIBA, Ryouta; MINAMI, Atsushi; OIKAWA, Hideaki
- 1D1-53** Characterization of a methyltransferase GfsG involved in the biosynthesis of 16-membered macrolide FD-891 (Grad. Sch. Sci., Eng., Tokyo Tech) YAMANISHI, Hiroto; KOMATSUBARA, Akiko; MOTEGI, Atsushi; KUDO, Fumitaka; EGUCHI, Tadashi
- 1D1-54** Cloning of aristeromycin biosynthetic gene cluster from *Streptomyces citricolor* NBRC 13005 (Graduate School of Science and Engineering, Tokyo Institute of Technology) TAKASHIMA, Makoto; KUDO, Fumitaka; EGUCHI, Tadashi
- 1D1-55** Cloning monooxygenase gene from *Halichondria okadaei* metagenomic clone that produce pigments (Univ. of Kanagawa; Faculty of Science) ABE, Takahiro; KUKITA, Akira; AKIYAMA, Kiyotaka; NAITOH, Takayuki; UEMURA, Daisuke

### Saturday, March 23, AM

Chair: MATSUMORI, Nobuaki (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2D1-01, 2D1-02, 2D1-03, 2D1-04, 2D1-05, 2D1-06)
- 2D1-01** Synthesis of the C79-C104 Fragment of Symbiodinolide (Okayama University; Kanagawa University) FUJIWARA, Takayuki; KAWAKUBO, Yohei; TAKAMURA, Hiroyoshi; KADOTA, Isao; UEMURA, Daisuke
- 2D1-02** Synthetic Study of the C1-C13 Fragment of Symbiodinolide (Okayama University; Kanagawa University) WADA, Hiroko; OGINO, Mao; TAKAMURA, Hiroyoshi; KADOTA, Isao; UEMURA, Daisuke
- 2D1-03** Tandem Synthesis of Tetrahydropyran Derivatives (Graduate School of Life Sciences, Tohoku Univ.) NOGUCHI, Takuma; NOTO, Kenkichi; FUWA, Haruhiko; SASAKI, Makoto
- 2D1-04** Synthetic study for structure determination of polycyclic ether KBT-F (Univ. of Tokyo) SASAKI, Koji; SATAKE, Masayuki; TACHIBANA, Kazuo; HARWOOD, Tim
- 2D1-05** Synthesis of Plausible Biosynthetic Precursors of Brevisamide, a Mono Cyclic Ether, and Search for an Epoxide-opening Enzyme (Univ. of Tokyo) TAKIMOTO, Yuki; SHIRAI, Tomohiro; KURANAGA, Takafumi; GENJI, Takahisa; HARWOOD, Tim; SATAKE, Masayuki; TACHIBANA, Kazuo
- 2D1-06** Isolation and properties of new water-soluble compounds from a red tide dinoflagellate collected in New Zealand (The Univ. of Tokyo; Cawthron Institute) SUZUKI, Rina; SATAKE, Masayuki; TACHIBANA, Kazuo; HAWOOD, Tim; HOLLAND, Patrick; BEUZENBERG, Veronica; SHI, Feng

Chair: MANABE, Yoshiyuki (10 : 10 ~ 11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(2D1-08, 2D1-09, 2D1-10, 2D1-11, 2D1-12, 2D1-13)
- 2D1-08** Synthetic Study of Tamulamide (1) (Okayama University) HARA, Shoki; KISHI, Takayuki; YAMAGAMI, Yuji; FUJISAWA, Yuka; TAKAMURA, Hiroyoshi; KADOTA, Isao
- 2D1-09** Synthetic Study of Tamulamide (2) (Okayama University) KISHI, Takayuki; HARA, Shoki; YAMAGAMI, Yuji; FUJISAWA, Yuka; TAKAMURA, Hiroyoshi; KADOTA, Isao
- 2D1-10** Studies toward the Total Synthesis of Goniodomin A (Graduate School of Life Sciences, Tohoku Univ.) NAKAJIMA, Motohiro; FUWA, Haruhiko; SASAKI, Makoto
- 2D1-11** Studies toward the Total Synthesis of Okadaic Acid (Graduate School of Life Sciences, Tohoku Univ.) MUTO, Takashi; FUWA, Haruhiko; SASAKI, Makoto
- 2D1-12** Construction of the 5,5,6-bispiroketal ring toward the total synthesis of spirolicid C (Osaka Univ.) WAKISAKA, Tomohiro; TSUCHIKAWA, Hiroshi; MATSUMORI, Nobuaki; MURATA, Michio
- 2D1-13** Synthetic study of the Z<sup>A</sup>B<sup>C</sup>D<sup>D</sup> ring of maitotoxin (RIKEN) SAITO, Tatsuo; NAKATA, Tadashi; SODEOKA, Mikiko

Chair: TAKAMURA, Hiroyoshi (11 : 20 ~ 12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(2D1-15, 2D1-16, 2D1-17, 2D1-18, 2D1-19, 2D1-20)
- 2D1-15** Synthetic study of QRS ring system of maitotoxin (Kyushu University) BABA, Tomomi; ONOUE, Hisaaki; TORIKAI, Kohei; EBINE, Makoto; OISHI, Tohru
- 2D1-16** Synthetic study of the C'D'E'F' Ring System of Maitotoxin (Kyushu University) KUNITAKE, Masahiro; TORIKAI, Kohei; EBINE, Makoto; OISHI, Tohru
- 2D1-17** Stereoselective Synthesis of the A-Ring of Armatol F (Faculty of Sci., Hokkaido Univ.; Grad. Sch. Chem. Sci. Eng., Hokkaido Univ.) HIROSE,

Yuta; FUJIWARA, Kenshu; SATO, Daisuke; KATOONO, Ryo; KAWAI, Hidetoshi; SUZUKI, Takanori

- 2D1-18** Synthesis and Biological Evaluation of Gambieric Acid A and Its Analogues (Graduate School of Life Sciences, Tohoku Univ.) ISHIGAI, Kazuya; FUKAZAWA, Ryo; FUWA, Haruhiko; SASAKI, Makoto; CHO, Yuko; YOTSU-YAMASHITA, Mari
- 2D1-19** An Efficient Synthesis of Medium-Sized Cyclic Ethers via Functionalization of Mixed Thioacetals (Graduate School of Life Sciences, Tohoku Univ.) SUGA, Yuto; FUWA, Haruhiko; SASAKI, Makoto
- 2D1-20** Synthesis of the C31-C67 part of amphidinol 3 (Department of chemistry, Kyushu Univ., Department of Chemistry, Osaka Univ., ERATO) EBINE, Makoto; MATSUMORI, Nobuaki; MURATA, Michio; OISHI, Tohru

### Saturday, March 23, PM

Chair: FUJIWARA, Kenshu (13 : 30 ~ 14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(2D1-28, 2D1-29, 2D1-30, 2D1-31, 2D1-32, 2D1-33)
- 2D1-28** Synthetic study on (-)-epigallocatechin-3,5-O-digalate (Department of Chemistry, Tokyo Institute of Technology) KIMURA, Miki; WATANABE, Gen; STADLBAUER, Sven; OHMORI, Ken; SUZUKI, Keisuke
- 2D1-29** Synthetic study of antibiotic tetracenomycin C (Graduate School of Science and Technology, Tokyo Institute of Technology) HASHIMOTO, Yoshimitsu; TAKIKAWA, Hiroshi; SUZUKI, Keisuke
- 2D1-30** Synthetic studies on pleospdione, a dearomatized anthraquinone natural product (Graduate School of Science and Technology, Tokyo Institute of Technology) ISHIKAWA, Yui; YOSHINAGA, Yuki; KAJIMURA, Saeka; HASHIMOTO, Yoshimitsu; TAKIKAWA, Hiroshi; SUZUKI, Keisuke
- 2D1-31** Total Synthesis of Antibiotic BE-43472B (1) (Graduate School of Science and Technology, Tokyo Institute of Technology) HIRANO, Yoichi; YAMASHITA, Yu; TAKIKAWA, Hiroshi; SUZUKI, Keisuke
- 2D1-32** Total Synthesis of Antibiotic BE-43472B (2) (Graduate School of Science and Technology, Tokyo Institute of Technology) YAMASHITA, Yu; HIRANO, Yoichi; TAKIKAWA, Hiroshi; SUZUKI, Keisuke
- 2D1-33** Isolation of a 3,6-HHDP-Bridged Compound by Aryl Coupling of  $\beta$ -Pentagalloylglucose Derivative (School of Science and Technology, Kwansei Gakuin University) KUME, Yuji; ASHIBE, Seiya; UENO, Yuri; IWASHITA, Takashi; YAMADA, Hidetoshi

Chair: HAYAKAWA, Ichiro (14 : 40 ~ 15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(2D1-35, 2D1-36, 2D1-37, 2D1-38, 2D1-39, 2D1-40)
- 2D1-35** Synthetic study of valoneoyl and tergalloyl group (School of Science and Technology, Kwansei Gakuin University) HIROKANE, Tsukasa; YAMADA, Hidetoshi
- 2D1-36** Synthetic study of a 1,3-HHDP bridge containing ellagitannin, (+)-Hipporhamnin (School of Science and Technology, Kwansei Gakuin University) YAMAGUCHI, Sayuri; ASHIKAGA, Yoshiki; HIROKANE, Tsukasa; YAMADA, Hidetoshi
- 2D1-37** Photoredox reaction of naphthoquinones (Grad. Sch. Sci., Eng., Tokyo Tech) ANDO, Yoshio; MATSUMOTO, Takashi; SUZUKI, Keisuke
- 2D1-38** Synthetic study on spiroxin C by using photoredox reaction (Department of Chemistry, Tokyo Institute of Technology) HANAKI, Atsuko; ANDO, Yoshio; OHMORI, Ken; SUZUKI, Keisuke
- 2D1-39** Synthetic Study of JBIR-23,-24. (Univ. of Toyama) MIYAZAWA, Masahiro; HO-DA, Ko-ji; YOKOYAMA, Hajime; HIRAI, Yoshiro
- 2D1-40** Synthesis of Thlephantin-O, A p-terphenyl natural product (Faculty of Sci., Hokkaido Univ.; Grad. Sch. Chem. Sci. Eng., Hokkaido Univ.) FUJIWARA, Kenshu; SATO, Takuto; SANO, Yusuke; NORIKURA, Toshio; KATOONO, Ryo; SUZUKI, Takanori; MATSUE, Hajime

Chair: KOBAYASHI, Shoji (15 : 50 ~ 16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(2D1-42, 2D1-43, 2D1-44, 2D1-45, 2D1-46, 2D1-47)
- 2D1-42** Total Synthesis of Lactonamycin Z and Determination of Its Absolute Configuration (Faculty of Science and Technology, Keio University) ADACHI, Satoshi; MITSUI, Ryo; SAIKAWA, Yoko; NAKATA, Masaya
- 2D1-43** Pursuit of Stentorin Congeners: Structure of Stentorin Dimer (Osaka City Univ., Kyoto Univ., JST-CREST) IIO, Hideo; YOSHIOKA, Koichi; HOSODA, Natumi; YOSHIDA, Kento; MIYABE, Hiroki; DOE, Matsumi; USUKI, Yoshinosuke; WATANABE, Takashi
- 2D1-44** Synthetic studies of biselide E (Univ. of Tsukuba) FUNAKUBO, Shota; ONOZAKI, Yuto; KAWAMURA, Dai; SHIMANUKI, Mami; KIMURA, Kizuku; HAYAKAWA, Ichiro; KIGOSHI, Hideo
- 2D1-45** Characterization of stability and function of anthocyanins complexed with Fe<sup>3+</sup> and acidic polysaccharides (Kobe Univ.) TACHIBANA, Noriko; KIMURA, Yukihiro; OHNO, Takashi
- 2D1-46<sup>#</sup>** Studies on the Total Synthesis of Kendomycin (Grad. Sch. Life Sci., Tohoku Univ.) XU, Shu; SENGOKU, Tetsuya; EMORI, Yoshinori; OGURA, Kenji; KITADA, Kenji; ARIMOTO, Hirokazu
- 2D1-47** Synthetic Study of Ustiloxin D (Graduate School of Science, Tohoku University) HAYASHI, Daisuke; HARADA, Syuji; SATO, Itaru;

HAYASHI, Yujiro; HIRAMA, Masahiro

Chair: TAKIKAWA, Hiroshi (17 : 00~17 : 30)

- \* 16:50-17:00: interval for laptop PC connection.(2D1-49, 2D1-50, 2D1-51)
- 2D1-49** Asymmetric Total Synthesis of Aspercyclides A, B, and C (Graduate School of Science, Tohoku University) YOSHINO, Tatsuya; SATO, Itaru; HAYASHI, Yujiro; HIRAMA, Masahiro
- 2D1-50** Synthetic study of bioactive polyphenols derived from the mushroom *Hericium erinaceum* (Faculty of Engineering, Osaka Institute of Technology) TAMANOI, Hidetsugu; KOBAYASHI, Shoji; SEGAWA, Yusuke; HASHINO, Yuuki; MASUYAMA, Araki
- 2D1-51** Total Synthesis of Acerogenins E, G, K and Centrololol (Faculty of Science and Technology, Sophia University) OGURA, Tetsuhiro; USUKI, Toyonobu

## Sunday, March 24, AM

Chair: IWAOKA, Michio (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3D1-01, 3D1-02, 3D1-03, 3D1-05)
- 3D1-01** Recognition Principle of Interaction between Transmembrane Model Peptides and Ladder shaped polycyclic ethers (LSPs) (Univ. of Tokyo) YAMADA, Kazuya; KURIYAMA, Haruki; HARA, Toshiaki; MURATA, Michio; FUKUZAWA, Seketsu; TACHIBANA, Kazuo
- 3D1-02** Synthetic study of conformationally restricted GABA analogs (Graduate School of Nanobioscience, Yokohama City Univ.) SUGENO, Yuka; KINOSHITA, Ryo; ISHIKAWA, Yuichi; TSUKADA, Hideyuki; OIKAWA, Masato
- 3D1-03\*** Studies on dysibetaine CPA/CPb and analogs: asymmetric total synthesis and absolute stereochemistry of the natural products (Graduate School of Nanobioscience, Yokohama City Univ.) SAKAI, Michihiro; TANAKA, Kento; ISHIKAWA, Yuichi; SAKAI, Ryuichi; OIKAWA, Masato
- 3D1-05\*** Total Synthesis of the COPD Biomarker Desmosines by Improved Negishi Cross-Coupling Reaction (Faculty of Science and Technology, Sophia University) USUKI, Toyonobu; YANUMA, Hiroto; HAYASHI, Takahiro; MURAKAMI, Yuku

Chair: FUKUZAWA, Seketsu (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3D1-08, 3D1-09, 3D1-10, 3D1-11, 3D1-12, 3D1-13)
- 3D1-08** Synthetic study of natural product bearing nitrogen-substituted quaternarycarbon stereocenters. (Kochi Univ.) OKUMURA, Ken; ICHIKAWA, Yoshiyasu
- 3D1-09** Synthetic studies of natural products with 1,2-diamino structural motif. (Kochi University) NISHIMORI, Ayumu; ICHIKAWA, Yoshiyasu; KARIYA, Noriko
- 3D1-10<sup>#</sup>** Synthetic study of myriocin using rearrangement reaction (Fac. Sci., Kochi Univ.) KINUTANI, Takahiro; ICHIKAWA, Yoshiyasu
- 3D1-11** Synthesis of selenocysteine derivatives using Woollins' reagent and evaluation of their chemical functions. (Tokai University) ITOH, Shun; IWAOKA, Michio
- 3D1-12** Synthesis of selenocysteine derivatives useful for solid phase peptide synthesis (Tokai University) SHIMODAIRA, Shingo; ITOH, Shun; IWAOKA, Michio
- 3D1-13** Synthesis of glutathione peroxidase enzyme models by the solid phase peptide synthesis method (Tokai Univ.) TAKEI, Toshiki; ASAHINA, Yuya; URABE, Yoshiko; ARAI, Kenta; HOJO, Hironobu; IWAOKA, Michio

Chair: ICHIKAWA, Yoshiyasu (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(3D1-15, 3D1-16, 3D1-17, 3D1-18, 3D1-19, 3D1-20)
- 3D1-15<sup>#</sup>** Synthesis of Mycobacterium peptidoglycan (PGN) fragments containing diaminopimelic acid (DAP) (Grad. Sch. of Sci., Osaka Univ.) WANG, Qianqian; MATSUO, Yusuke; FUJIMOTO, Yukari; FUKASE, Koichi
- 3D1-16** Synthetic Study on Bisbromoamides (Keio Univ.) SHIMIZU, Yuto; NAGAMATSU, Yumi; WATANABE, Atsushi; TODOROKI, Seiji; SUENAGA, Kiyotake
- 3D1-17** Synthetic Study on Miuraenamide A, an Antibacterial Cyclic Depsipeptide (Keio Univ.) TOHYAMA, Koh; YASUI, Ayano; TOKUZUMI, Keita; ITOH, Kayoko; TORIHIRA, Eisuke; SUENAGA, Kiyotake
- 3D1-18** Synthetic study of artificial alpha, alpha-disubstituted alpha-amino acids by Ugi four-component coupling reaction (Graduate School of Nanobioscience, Yokohama City Univ.) SUGAMATA, Yutarou; ISHIKAWA, Yuichi; OIKAWA, Masato
- 3D1-19** 2-Hydroxymethyl-2-propyl isocyanide: the use in Ugi four-component coupling reaction (Graduate School of Nanobioscience, Yokohama City Univ.) FUKUSHIMA, Koichi; SUGAMATA, Yutarou; CHIBA, Manami; ISHIKAWA, Yuichi; OIKAWA, Masato
- 3D1-20** Synthetic studies on protoaculeine B (Graduate School of Nanobioscience, Yokohama City Univ.) OHTSUKA, Kazunori; ISHIKAWA, Yuichi; OIKAWA, Masato

## Sunday, March 24, PM

Chair: OIKAWA, Masato (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(3D1-28, 3D1-29, 3D1-30, 3D1-31, 3D1-32, 3D1-33)
- 3D1-28** Synthesis of  $\alpha$ -Amino Squaric Acid-containing Peptide by Solid-phase Synthesis (Graduate School of Sci., Osaka City Univ.) MAEDA, Kentaro; SHINADA, Tetsuro; OHFUNE, Yasufumi
- 3D1-29** Synthesis of Diaminopimelic Acid Derivatives Bearing a Cyclopropane Ring (Graduate School of Sci., Osaka City Univ.) WAKABAYASHI, Yuuka; SHIMAMOTO, Keiko; SHINADA, Tetsuro; OHFUNE, Yasufumi
- 3D1-30** Synthetic Study of Optically Active Monoacyl-Diamino Dicarboxylic Acid Derivative by Catalytic Asymmetric Reduction of Bis-Dehydroamino Acid Ester (Graduate School of Sci., Osaka City Univ.) SUEUCHI, Yuki; SHINADA, Tetsuro; OFUNE, Yasufumi
- 3D1-31** Investigation of bioactive peptides from a malaysian marine sponge (Grad. Sch. Sci., Eng., Kagoshima Univ.) HIRATA, Mitsunobu; HARADA, Daisuke; IWAGAWA, Tetsuo; OKAMURA, Hiroaki; HAMADA, Toshiyuki; VAIRAPPAN, Charles
- 3D1-32** Biosynthesis of Poly(  $\epsilon$ -L-lysine) and Characteristics of Modified Poly(  $\epsilon$ -L-lysine)s (School of Engineering, The Univ. of Shiga Prefecture) MURO, Shogo; UKO, Manabu; TAKEHARA, Munenori; INOUE, Yoshinori; KUMAGAI, Tsutomu
- 3D1-33** Synthetic study of lynchbyacyclamide A, a cyclic dodecapeptide (Kanagawa Univ. Dept. of Chemistry) MASUDA, Shun; MARU, Norihito; UEMURA, Daisuke

Chair: SHIINA, Isamu (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(3D1-42, 3D1-43, 3D1-44, 3D1-45, 3D1-47)
- 3D1-42** LC-XRD: a new microgram-scale X-ray analysis protocol coupled with liquid chromatography: structural determination of flavones (The Univ. of Tokyo) ARIYOSHI, Junko; YOSHIOKA, Shota; INOKUMA, Yasuhide; FUJITA, Makoto
- 3D1-43** Synthesis and structure elucidation of catechin hetero-oligomers isolated from *Ziziphus jujuba* (Graduate School of Science and Technology, Tokyo Institute of Technology) YANO, Takahisa; OHMORI, Ken; TAKAHASHI, Haruko; KUSUMI, Takenori; SUZUKI, Keisuke
- 3D1-44**  $\alpha$ -Selective C-glycosidation of L-vancosamine derivatives (Tokyo Institute of Technology) ASAHINA, Hiromune; KITAMURA, Kei; ANDO, Yoshio; MATSUMOTO, Takashi; SUZUKI, Keisuke
- 3D1-45\*** Total synthesis of antitumor antibiotic saptomycin B (Tokyo Institute of Technology) KITAMURA, Kei; MAEZAWA, Yoshihiko; ANDO, Yoshio; MATSUMOTO, Takashi; SUZUKI, Keisuke
- 3D1-47** Synthetic study on saptomycin H, a C-glycoside antibiotic (Tokyo Institute of Technology) MAEZAWA, Yoshihiko; KITAMURA, Kei; ANDO, Yoshio; MATSUMOTO, Takashi; SUZUKI, Keisuke

Chair: SHINADA, Tetsuro (17 : 00~18 : 00)

- \* 16:50-17:00: interval for laptop PC connection.(3D1-49, 3D1-50, 3D1-52, 3D1-53, 3D1-54)
- 3D1-49** Convergent Total Synthesis of Isodehydrothyrseriferol (Graduate School of Sci., Osaka City Univ.) NAKAI, Haruka; HOSHINO, Akihiro; MORINO, Miyako; KAMBARA, Hitomi; KODAMA, Takeshi; KIKUCHI, Seiho; TACHI, Yoshimitsu; MORIMOTO, Yoshiki
- 3D1-50\*** Total Synthesis of (+)-Ekeberin D<sub>4</sub> Based on the Hypothetical Biogenesis (Graduate School of Sci., Osaka City Univ.) KODAMA, Takeshi; AOKI, Shingo; MATSUO, Tomoki; TACHI, Yoshimitsu; MORIMOTO, Yoshiki
- 3D1-52** Total Synthesis of Heronapyrroles A and B (Graduate School of Sci., Osaka City Univ.) MATSUO, Tomoki; MITANI, Hikaru; KODAMA, Takeshi; TACHI, Yoshimitsu; MORIMOTO, Yoshiki
- 3D1-53** Synthetic Studies on Nitropropylolins (Graduate School of Sci., Osaka City Univ.) MITANI, Hikaru; MATSUO, Tomoki; KODAMA, Takeshi; TACHI, Yoshimitsu; MORIMOTO, Yoshiki
- 3D1-54** Transformation of pinene skeleton via photooxygenation and fragmentation by Lewis acid (Faculty of Science and Technology, Sophia University) EGOSHI, Yuki; KONDO, Ryosuke; SUGIYAMA, Toru; USUKI, Toyonobu

## Monday, March 25, AM

Chair: FUWA, Haruhiko (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4D1-01, 4D1-02, 4D1-03, 4D1-05, 4D1-06)
- 4D1-01** Highly diastereoselective aldol addition to the axially chiral biphenyl derivative (Department of Chemistry, Tokyo Institute of Technology; School of Pharmacy, Tokyo Univ. of Pharmacy and Life Sciences) YAMAGUCHI, Satoru; SAKAMOTO, Kayo; YUYAMA, Daisuke; TAKAHASHI, Nobuyuki; SUZUKI, Keisuke; MATSUMOTO, Takashi
- 4D1-02** Control of axial stereochemistry of biphenyls via the medium-ring bridge formation (School of Pharmacy, Tokyo Univ. of Pharmacy and Life Sciences; Department of Chemistry, Tokyo Institute of Technology) YUYAMA, Daisuke; YAMAGUCHI, Satoru; HORIKIRI, Hisanori;

SUZUKI, Keisuke; MATSUMOTO, Takashi

- 4D1-03\*** Regio- and stereo- controlled synthesis of rare 4,6-inter flavan linked oligomeric proanthocyanidins. (Tokyo Institute of Technology) WATANABE, Gen; OHMORI, Ken; SUZUKI, Keisuke
- 4D1-05** An Improved Asymmetric Total Synthesis of 5-Epipemerrillianin (Tokyo Univ. of Science) SHINOHARA, Shoujirou; KAGEYAMA, Yousuke; KUBOKI, Teppi; SUWA, Yuki; SHIINA, Isamu
- 4D1-06** Synthetic Studies of the Revised Proposed Structure of Astakolactin (Tokyo Univ. of Science) TONOI, Takayuki; FUJISHIRO, Moe; SHIINA, Isamu

Chair: TSUCHIKAWA, Hiroshi (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(4D1-08, 4D1-09, 4D1-10, 4D1-12, 4D1-13)
- 4D1-08** Synthetic study on A-type proanthocyanidins (Graduate School of Science and Technology, Tokyo Institute of Technology) ITO, Yuji; OHMORI, Ken; SUZUKI, Keisuke
- 4D1-09** The synthetic study on mururin B, flavonolignan (Department of Chemistry, Tokyo Institute of Technology) FUKUDA, Emi; OHMORI, Ken; SUZUKI, Keisuke
- 4D1-10\*** Synthetic Studies on Asymmetric Total Syntheses of PPAPs Based on Catalytic Asymmetric Intramolecular Cyclopropanation (Dept. of Chem. and BioChem., Adv. Sch. of Sci. and Engin., Waseda Univ.) UWAMORI, Masahiro; ENDO, Yuya; NAKADA, Masahisa
- 4D1-12** Synthetic study of naphthocyclinones by using reductive cyclization (Department of Chemistry, Tokyo Institute of Technology) FUKAZAWA, Takumi; HORI, Subaru; ANDO, Yoshio; OHMORI, Ken; SUZUKI, Keisuke
- 4D1-13** Total synthesis and structural revision of kynapcin-12 (RIKEN, Saitama Univ. Graduate school) YOSHIDA, Ayaka; YE, Yue Qi; KOSHINO, Hiroyuki; MATSUOKA, Koji; TAKAHASHI, Shunya

Chair: TONOI, Takayuki (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(4D1-15, 4D1-16, 4D1-17, 4D1-18, 4D1-20)
- 4D1-15** Studies toward the Total Synthesis of Iriomoteolide-2a (Graduate School of Life Sciences, Tohoku Univ.) ICHINOKAWA, Naoki; FUWA, Haruhiko; SASAKI, Makoto
- 4D1-16** Total synthesis and biological evaluation of a lyngbyalide B analogue (Graduate School of Life Sciences, Tohoku Univ.) YAMAGATA, Naoya; FUWA, Haruhiko; SASAKI, Makoto
- 4D1-17** Design, Synthesis, and Biological Evaluation of Neopeltolide Analogues (Graduate School of Life Sciences, Tohoku Univ.) KAWAKAMI, Masato; MUTOU, Takashi; FUWA, Haruhiko; SASAKI, Makoto
- 4D1-18\*** Synthetic study of labeled bafilomycin to elucidate its inhibition mechanism on vacuolar ATPase (Osaka Univ.) SHIBATA, Hajime; TSUCHIKAWA, Hiroshi; UMEGAWA, Yuichi; MATSUMORI, Nobuaki; MURATA, Michio
- 4D1-20** Synthesis and Biological Assessment of (-)-Exiguolide Analogues. (Graduate School of Life Sciences, Tohoku Univ.; Institute of Development, Aging and Cancer, Tohoku Univ.; Tohoku Univ. School of Medicine) MIZUNUMA, Kana; FUWA, Haruhiko; SASAKI, Makoto; SUZUKI, Takaya; KUBO, Hiroshi

## Monday, March 25, PM

Chair: TAMURA, Satoru (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(4D1-28, 4D1-30, 4D1-31, 4D1-32, 4D1-33)
- 4D1-28\*** Structures and Biological Activities of Novel Macrolides Biselyngbyasides from the Marine Cyanobacteria (Faculty of Science and Technology, Keio University) MORITA, Maho; OHNO, Osamu; TERUYA, Toshiaki; SASAKI, Hiroaki; SUENAGA, Kiyotake
- 4D1-30** Isolation and Structure of the Macrolide Biselyngbyolide B from Marine Cyanobacteria (Faculty of Science and Technology, Keio University) WATANABE, Ayane; MORITA, Maho; OHNO, Osamu; TERUYA, Toshiaki; SUENAGA, Kiyotake
- 4D1-31** Stereochemical analysis of luminaolide (Kanagawa Univ.; Univ. of Guam; Gifu Univ.) MARU, Norihito; YAMAMOTO, Keita; KITAMURA, Makoto; INUZUKA, Toshiyasu; YAMADA, Kaoru; SCHUPP, Peter J.; UEMURA, Daisuke
- 4D1-32** Synthetic Study on Alexandrolide, an Antidiatom, for Elucidation of Total Structure (The Univ. of Tokyo; Cawthron Institute) MIZUKAMI, Atsushi; SATAKE, Masayuki; TACHIBANA, Kazuo; HARWOOD, Tim; OHTANI, Naohito
- 4D1-33** Solid-state NMR-based structure of membrane-bound assembly formed by amphotericin B methyl ester (Graduate School of Science, Osaka University) TANIWAKI, Ryo; UMEGAWA, Yuichi; TSUCHIKAWA, Hiroshi; MATSUMORI, Nobuaki; MURATA, Michio

Chair: TSUKANO, Chihiro (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(4D1-35, 4D1-36, 4D1-37, 4D1-39, 4D1-40)
- 4D1-35** Convenient synthesis of ethyl 4-hydroxyalk-2-enoate by sulfanyl-Knoevenagel reaction and its application for a synthesis of macrolide A26771B (Okayama University of Science; Faculty of Engineering)

MIZUTANI, Yusuke; FUJII, Yasutaka; YOKOYAMA, Madoka; NOKAMI, Junzo

- 4D1-36** Preparation of deuterium labeled derivatives of amphotericin B and their orientation in membrane as revealed by solid-state NMR (Osaka University Graduate School of Science) YAMAGAMI, Masaki; MATSUDA, Yasuhiko; UMEGAWA, Yuichi; TSUCHIKAWA, Hiroshi; MATSUMORI, Nobuaki; MICHIO, Murata
- 4D1-37\*** Structural basis of interaction between amphotericin B and sterol toward a better understanding selective toxicity (Sch. Sci., Osaka Univ.) NAKAGAWA, Yasuo; NONOMURA, Kenichi; UMEGAWA, Yuichi; TSUCHIKAWA, Hiroshi; MATSUMORI, Nobuaki; MURATA, Michio
- 4D1-39** Synthetic Study on Biselyngbyasides (Keio Univ.) TANABE, Yurika; SATO, Eisuke; NAKAJIMA, Naoya; OHKUBO, Akifumi; SUENAGA, Kiyotake
- 4D1-40** Synthetic studies on Reidispongolide A, an actin-depolymerizing Macrolide (Faculty of Science and Technology, Keio) SUZUKI, Kazushi; AKIYAMA, Satoshi; TORIIHARA, Eisuke; TERUYA, Toshiaki; OHNO, Osamu; SUENAGA, Kiyotake

Chair: NAGASAWA, Kazuo (15 : 50~16 : 20)

- \* 15:40-15:50: interval for laptop PC connection.(4D1-42, 4D1-43, 4D1-44)
- 4D1-42** Novel Cyclopropanation Reaction of Electron deficient Olefin with Furan derivatives (Graduate School of Sci., Osaka City Univ.) MATSUMOTO, Ryotaro; MANABE, Atsushi; SHINADA, Tetsuro; OHFUNE, Yasufumi
- 4D1-43** Synthetic Studies of 3-Substituted-2-pyridone-6-carboxylic Acid Derivatives Using Cross Coupling Reaction (Graduate School of Sci., Osaka City Univ.) MISAKI, Kumi; SHINADA, Tetsuro; OHFUNE, Yasuhumi
- 4D1-44** Stereoselective Synthesis of  $\beta$ ,  $\beta$ -Disubstituted  $\alpha$ ,  $\beta$ -Dehydroamino Acid Ester (Graduate School of Sci., Osaka City Univ.) YASUKAWA, Yoshifumi; YASUNO, Yoko; SHINADA, Tetsuro; OHFUNE, Yasufumi

## Room D2 FOREST HOUSE F109

### Natural Products Chemistry

Friday, March 22, AM

Chair: SAIKAWA, Yoko (11 : 30~12 : 10)

- \* 11:20-11:30: interval for laptop PC connection.(1D2-16, 1D2-17, 1D2-18, 1D2-19)
- 1D2-16** Synthetic Studies on Tetrodotoxin by the Novel Cycloisomerization Employing a Metal Catalyst (Graduate School of Sci., Osaka City Univ.) KIKUCHI, Seiho; YOSHIYAMA, Haruka; KOYAMA, Tomoyuki; TACHI, Yoshimitsu; MORIMOTO, Yoshiki
- 1D2-17** Synthetic Studies on Neurotoxic Tetrodotoxin (Graduate School of Sci., Osaka City Univ.) YOSHIYAMA, Haruka; KOYAMA, Tomoyuki; KIKUCHI, Seiho; TACHI, Yoshimitsu; MORIMOTO, Yoshiki
- 1D2-18** Structure-activity relationship of firefly luciferin and development of novel luciferin analogs (Fac. Sci. Tech., Keio Univ.) IOKA, Shuji; SAITOH, Tsuyoshi; IWANO, Satoshi; MAKI, Shoujirou; NIWA, Haruki; NISHIYAMA, Shigeru
- 1D2-19** Synthetic study of tunicamycin analogues: a strategy employing Prins reaction for assembly of two units (Graduate School of Science and Engineering and Graduate School of Science, Hokkaido University) TAMURA, Rie; OGURI, Hiroki; OIKAWA, Hideaki

Friday, March 22, PM

Chair: HANAYA, Kengo (13 : 20~14 : 20)

- \* 13:10-13:20: interval for laptop PC connection.(1D2-27, 1D2-28, 1D2-29, 1D2-30, 1D2-31, 1D2-32)
- 1D2-27** Synthesis of 6-(3-pentyl)oxy-Relenza analog from D-glucosamine as potential sialidase inhibitors (Univ. of Kanagawa) TANAKA, Shuu; AKAI, Shoji; SATO, Ken-ichi
- 1D2-28** Synthesis of oligoglucosamines using the electrochemical automated synthesizer (Kyoto Univ.) HAYASHI, Ryutaro; LIU, Chih Yueh; MONG, Kwok-kong; SHIMIZU, Akihiro; NOKAMI, Toshiaki; YOSHIDA, Junichi
- 1D2-29** Synthetic studies on a pyrrolizidine alkaloid, Pochonicine (RIKEN ASI; Saitama Univ.; Okayama Univ.) KITAMURA, Yujiro; KOSHINO, Hiroyuki; TSUCHIDA, Aya; NITODA, Teruhiko; KANZAKI, Hiroshi; MATSUOKA, Koji; TAKAHASHI, Shunya
- 1D2-30** Asymmetric aldol reaction using water compatible prolinamide-catalysts towards prebiotic synthesis of carbohydrates (Dept. of Chem., College of Sci.& Tech., Meisei Univ) MIURA, Daisuke; BABA, Masakazu; FUJIMOTO, Takashi; MACHINAMI, Tomoya
- 1D2-31** Conformational effects of aldoses on prolinamide catalyzed aqueous aldol reaction. (Dept. of Chem., College of Sci.& Tech., Meisei Univ) MIURA, Daisuke; OKABE, Tomoe; FUJIMOTO, Takashi; MACHINAMI, Tomoya

**1D2-32** Stereochemical analysis of glycosyl sulfoxide by using VCD (Frontier Research Center for Post-genome Science and Technology Hokkaido University) NASU, Akihito; TANIGUCHI, Tohru; SHICHIBU, Yukatsu; KONISHI, Katsuaki; MONDE, Kenji

Chair: TAKAHASHI, Daisuke (17 : 10~18 : 00)

\* 17:00-17:10: interval for laptop PC connection.(1D2-50, 1D2-51, 1D2-53, 1D2-54)

**1D2-50** Synthesis and Properties of 2-Deoxy-2-Fluoro Glycosyl Phosphate (Univ. of Tokyo) KOBAYASHI, Satoshi; NORO, Mihoko; WADA, Takeshi

**1D2-51\*** Stereoselective Synthesis of *P*-Modified  $\alpha$ -Glycosyl Phosphates by the Oxazaphospholidine Approach (The Univ. of Tokyo) NORO, Mihoko; FUJITA, Shoichi; WADA, Takeshi

**1D2-53** Synthesis of Novel Nucleotide Analogs with Sugar-1-Phosphate Backbone (Univ. of Tokyo) KUWANA, Yuhei; FUJITA, Shoichi; WADA, Takeshi

**1D2-54** Protecting-group-free Synthesis of Glycomonomers for Oligosaccharide-grafted Polymers (Kyoto Inst. Tech.) TANAKA, Tomonari; INOUE, Genri; FUKUMOTO, Hiroyuki

## Saturday, March 23, AM

Chair: OHFUNE, Yasufumi (9 : 00 ~10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(2D2-01)

**2D2-01 CSJ Award for Creative Works** Total Synthesis of Complex Natural Products Based on New Methods for Construction of Polycyclic Frameworks (Grad. Sch. Sci., Hokkaido Univ.) TANINO, Keiji

Chair: ANDO, Kaori (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(2D2-08, 2D2-10, 2D2-11, 2D2-12, 2D2-13)

**2D2-08\*** Synthetic Study on Safflomin A, a yellow pigment isolated from the flower petals of safflower (Graduate School of Science and Technology, Tokyo Institute of Technology) KAMIMURA, Haruki; ANDO, Yoshio; TAKAHASHI, Haruko; OHMORI, Ken; SUZUKI, Keisuke

**2D2-10** Total Synthesis of Vineomycin B<sub>2</sub> (Keio Univ.; Faculty of Science and Technology) OKUZAWA, Shunsuke; KANEKO, Erika; TOMONO, Satoshi; KUSUMI, Shunichi; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu

**2D2-11** Synthesis of Oligosaccharide Analogs of Vineomycin B<sub>2</sub> for the Creation of Novel Biologically Active Artificial Oligosaccharides (Keio Univ.; Faculty of Science and Technology) KANEKO, Erika; OKUZAWA, Shunsuke; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu

**2D2-12** Environmentally Benign Photoinduced Glycosylations of Unprotected Thioglycosyl Donors (Keio Univ.; Faculty of Science and Technology) NAKANISHI, Mayuka; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu

**2D2-13** Novel Chemical Glycosylations with Recognition of Alcohol Chirality (Keio Univ.; Faculty of Science and Technology) KIMURA, Tomoya; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu

Chair: MANABE, Yoshiyuki (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(2D2-15, 2D2-16, 2D2-17, 2D2-18, 2D2-19, 2D2-20)

**2D2-15** Development of an  $\alpha$ -selective ribofuranosylation using a ribofuranosyl iodide (Gifu University) TAKEUCHI, Kaoru; OKA, Natsuhisa; NAGAKAWA, Haruna; ANDO, Kaori

**2D2-16** Highly  $\alpha$ -selective glycosylation using 3,6-*O*-[bibenzyl-2,2'-bis(methylene)]-bridged sugar (School of Science and Technology, Kwansai Gakuin University) HIRATA, Yasuaki; ASHIKAGA, Yoshiki; YAMADA, Hidetoshi

**2D2-17** Glycosylation Reaction Promoted by *in situ* Generated Lewis Acid (Graduate School of Engineering, Tohoku University) SAITO, Sachie; TAKAGI, Yuka; NOGUCHI, Masato; SHODA, Shin-ichiro

**2D2-18** Glycosylation Reaction of Aminosugar Derivative Prepared by First-step Activation Method (Graduate School of Engineering, Tohoku University) NOGUCHI, Masato; KAJI, Yusuke; SHODA, Shin-ichiro

**2D2-19** One Step Synthesis of  $\alpha$ -Glycosyl Fluoride in Water (Graduate School of Engineering, Tohoku University) NAKAYA, Ken-ichi; NOGUCHI, Masato; SHODA, Shin-ichiro

**2D2-20** Novel Synthetic Method for Glycoside Using Primary Activation of Anomeric Center (Graduate School of Engineering, Tohoku University) SATO, Nozomi; ISIHARA, Masaki; NOGUCHI, Masato; SHODA, Shin-ichiro

## Saturday, March 23, PM

Chair: NOGUCHI, Masato (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(2D2-28, 2D2-29, 2D2-30, 2D2-31, 2D2-32, 2D2-33)

**2D2-28** Development of a Solid-Phase Photoaffinity Labeling Method Based on Glycolipid-goldnanoparticles (Tokyo Univ. of Agri. and Technol.) OKADA, Ayumi; SAKURAI, Kaori

**2D2-29** Study on immobilized DMC derivative (Tokai university) HIROSE, Yuuya; HANEDA, Katsuji; INAZU, Toshiyuki

**2D2-30** Development of selective oxidation at 6-position of hexose in

glycoconjugates and application to conjugation and labeling. (Grad. Sch. of Sci., Osaka Univ.) MUKOUZAKA, Natsumi; WANG, Ning; KAJIKI, Yasunori; FUJIMOTO, Yukari; FUKASE, Koichi

**2D2-31** Chemically conjugated immunoadjuvant complexes containing peptidoglycan fragment (Grad. Sch. of Sci., Osaka Univ.) KAJIKI, Yasunori; INOHARA, Naohiro; FUJIMOTO, Yukari; FUKASE, Koichi

**2D2-32** Synthesis of phosphatidylinositol from *Entamoeba histolytica*, which activate NKT cell (Grad. Sch. of Sci., Osaka Univ.) AIBA, Toshihiko; SATO, Masaki; UMEGAKI, Daichi; IWASAKI, Takanori; KAMBE, Nobuaki; FUJIMOTO, Yukari; FUKASE, Koichi

**2D2-33** Synthetic study of lipid A containing 3-*N*-glucosamine structure. (Grad. Sch. of Sci., Osaka Univ.) MASUI, Seiji; IKUJI, Teppi; FUJIMOTO, Yukari; FUKASE, Koichi

Chair: HIRAI, Go (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(2D2-35, 2D2-36, 2D2-37, 2D2-38, 2D2-39, 2D2-40)

**2D2-35** Synthetic study of chemokine-CCL1 bearing an asialooligosaccharide (Osaka Univ.) KAYAHARA, Saya; OKAMOTO, Ryo; IZUMI, Masayuki; KAJIHARA, Yasuhiro

**2D2-36** Selective protection for complex-type biantennary oligosaccharide (Osaka Univ.) MIMA, Takanori; MAKI, Yuta; OKAMOTO, Ryo; IZUMI, Masayuki; KAJIHARA, Yasuhiro

**2D2-37** Synthetic studies of tri-antennary N-glycans from bi-antennary complex-type N-glycan from biological source (Osaka Univ.) MAKI, Yuta; OKAMOTO, Ryo; IZUMI, Masayuki; KAJIHARA, Yasuhiro

**2D2-38** Synthetic study of glycoprotein bearing a highmannose oligosaccharide (Osaka Univ.) KAINOU, Tomoka; OKAMOTO, Ryo; IZUMI, Masayuki; KAJIHARA, Yasuhiro

**2D2-39** Synthesis of Sialic acid Containing Glycopolymer and its biological activity (Tokyo Institute of Technology) OHIRA, Shuichi; TANAKA, Hiroshi; TOMITA, Ikuyoshi; SATOU, Chihiro; KITAJIMA, Ken; TAKAHASHI, Takashi

**2D2-40** Solid-phase Synthesis of an Amphiphilic Phosphodiester Library (Tokyo Tech; Japan BCG) TANAKA, Hiroshi; HOSONO, Takahiro; SUNAGAWA, Makoto; TAKAHASHI, Takashi

Chair: IAHIWATA, Akihiro (15 : 50~16 : 50)

\* 15:40-15:50: interval for laptop PC connection.(2D2-42, 2D2-43, 2D2-44, 2D2-45, 2D2-46, 2D2-47)

**2D2-42** Biological Activity and Conformational Analysis of Sialidase-resistant Ganglioside GM3 Analogues (RIKEN) KATO, Marie; HIRAI, Go; KOSHINO, Hiroyuki; OONUMA, Kana; MIYAGI, Taeko; SODEOKA, Mikiko

**2D2-43** Synthesis of the functional probes based on a sialidase-resistant ganglioside GM3 analogue. (RIKEN) OTA, Eisuke; KATO, Marie; OONUMA, Kana; HIRAI, Go; NISHIYAMA, Sigeru; SODEOKA, Mikiko

**2D2-44** Discovery of unique reaction of halogenated epoxide and its application to the preparation of *t*-butylester derivatives (RIKEN) NISHIZAWA, Eri; OKADA, Mitsuaki; HIRAI, Go; SODEOKA, Mikiko

**2D2-45<sup>#</sup>** Synthesis of bis-sialylated *N*-glycan motifs using efficient  $\alpha$ -sialylation (Osaka University) ZHOU, Jiazhou; MANABE, Yoshiyuki; TANAKA, Katsunori; FUKASE, Koichi

**2D2-46** Synthesis and properties of oligodiaminomannose potentially binding to nucleic acid duplexes (univ. of Tokyo) DOI, Akiko; IWATA, Rintaro; WADA, Takeshi

**2D2-47** Synthetic study of *N*-linked glycans using common monosaccharide units (Department of Materials and Life Science, Seikei Univ.) SHIBA, Masaaki; IWATA, Kodai; MATSUZAKI, Yuji; HIRANO, Makoto; TOTANI, Kiichiro

Chair: OKAMOTO, Ryo (17 : 00~18 : 00)

\* 16:50-17:00: interval for laptop PC connection.(2D2-49, 2D2-50, 2D2-51, 2D2-52, 2D2-53, 2D2-54)

**2D2-49** Synthetic study of mannose-capped arabinan motif using intramolecular aglycon delivery (RIKEN Advanced Science Institute; ERATO JST;) ISHIWATA, Akihiro; ITO, Yukishige

**2D2-50** Synthetic Study of Core Fucose Containing *N*-Glycan via a Novel Strategy using Glycosyl Asparagine Intermediates (Graduate School of Science, Osaka Univ.) NAGASAKI, Masahiro; MINAMOTO, Naoya; MANABE, Yoshiyuki; TANAKA, Katsunori; FUKASE, Koichi

**2D2-51** Synthetic study of bisecting glycan for *N*-glycan library (Graduate School of Science, Osaka Univ.) MINAMOTO, Naoya; NAGASAKI, Masahiro; MANABE, Yoshiyuki; TANAKA, Katsunori; FUKASE, Koichi

**2D2-52** Synthetic Study of (+)-Terrein glycoside as an angiogenesis inhibitor (Okayama Univ.) TSUMURA, Toki; MANDAI, Hiroki; SUGA, Seiji

**2D2-53** Synthetic study on 4-*O*-methyl-*N*-acetylmannosamine starting from D-glucose (Faculty of Pharmacy, Keio University) OKAZAKI, Hayato; CALVERAS, Jordi; UEDA, Yuji; HANAYA, Kengo; SHOJI, Mitsuru; SUGAI, Takeshi

**2D2-54** Total Synthesis of Okicamelliaside, a Glucoside of Ellagic Acid (Faculty of Pharmacy, Keio University) KOBAYASHI, Ryohi; HANAYA, Kengo; SHOJI, Mitsuru; OHBA, Shigeru; SUGAI, Takeshi

## Asian International Symposium - Natural Products Chemistry, Chemical Biology / Bio-functional Chemistry and Biotechnology - - Sunday, March 24, AM

(9:30 ~ 9:40)

**3D2-04<sup>#</sup>** Opening Remark (Tohoku Univ.) Minoru Ueda (09:30~09:40)

Chair: Kenichi Takao (9:40 ~ 10:10)

**3D2-05<sup>#</sup> Invited Lecture** Design and Development of Fluorine Containing Gangliosides: Establishing the Concept of Conformational Control (RIKEN) Go Hirai (09:40~10:10)

Chair: Hitoshi Tamiaki (10:10~10:40)

**3D2-08<sup>#</sup> Invited Lecture** Biofunction of Chemically Reactive Supramolecular Materials (Gifu Univ.) Masato Ikeda (10:10~10:40)

Chair: Minoru Ueda (10:40~11:30)

**3D2-11<sup>#</sup> Keynote Lecture** Fluorescent probes for chemical biology (National Univ. of Singapore) CHANG Young-Tae (10:40~11:30)

Chair: Itaru Hamachi (11:30~12:20)

**3D2-16<sup>#</sup> Keynote Lecture** Discovery of Novel Therapeutic Agents using Molecular Diversity and Chemical Biology (Seoul-Fluor and FITGE technology) (Seoul National Univ.) Seung Bum Park (11:30~12:20)

## Sunday, March 24, PM

Chair: Takehiko Wada (13:30~14:00)

**3D2-28<sup>#</sup> Invited Lecture** Development of Advanced DNA Sensors Based on The Stability Change of DNA Base Pairs in a Hydrated Ionic Liquid (Konan Univ.) Hisae Tateishi-Karimata; Naoki Sugimoto (13:30~14:00)

Chair: Hiroshi Tanaka (14:00~14:30)

**3D2-31<sup>#</sup> Invited Lecture** Design and expeditious synthesis of natural product-inspired multicyclic scaffolds: strategies for fragment assembly and skeletal diversification (Hokkaido Univ.) Hiroki Oguri (14:00~14:30)

Chair: Koichi Fukase (14:30~15:20)

**3D2-34<sup>#</sup> Keynote Lecture** RNA nanotechnology for biosensors and drug development-focused on graphene (Seoul National Univ.) Dal-Hee Min (14:30~15:20)

Chair: Hideaki Oikawa (15:20~16:10)

**3D2-39<sup>#</sup> Keynote Lecture** Biosynthesis-Based Mining of New Pathways and Their Associated Natural Products: Opportunities and Challenges (Shanghai Institute of Organic Chemistry) WEN Liu (15:20~16:10)

(16:10~16:20)

**3D2-44<sup>#</sup>** Closing Remark (Osaka Univ.) Koichi Fukase (16:10~16:20)

## Natural Products Chemistry

Chair: NAKADA, Masahisa (16:50~17:20)

\* 16:40-16:50: interval for laptop PC connection.(3D2-48)

**3D2-48 CSJ Award for Young Chemists** Synthesis of Biologically Active Compounds via Direct Arene-Assembling Reaction (Grad. Sch. Sci., Nagoya Univ.) YAMAGUCHI, Jun-ichiro

## Monday, March 25, AM

Chair: TAKAMURA, Hiroyoshi (9:00 ~ 10:00)

\* 8:50-9:00: interval for laptop PC connection.(4D2-01, 4D2-02, 4D2-03, 4D2-04, 4D2-05, 4D2-06)

**4D2-01** Synthetic study of englerin A based on stereoselective 5b342b335d cycloaddition (Faculty of Pharmacy, Keio University) HAGIHARA, Shuichi; HANAYA, Kengo; SUGAI, Takeshi; SHOJI, Mitsuru**4D2-02** Synthetic study of key intermediate of arisugacin A based on diastereoselective domino cyclization (Faculty of Pharmacy, Keio University) ASAMI, Kento; HANAYA, Kengo; SUGAI, Takeshi; SHOJI, Mitsuru**4D2-03** Studies on construction of *cis*-decalin framework via radical domino cyclization (Tohoku Univ.; Keio Univ.) SUZUKI, Eriko; UEDA, Minoru; SUGAI, Takeshi; SHOJI, Mitsuru**4D2-04** Synthetic Study of Limonin (Graduate School of Science, Tohoku University) NARUKO, Akito; NAKAZAWA, Yuki; YAMASHITA, Shuji; HAYASHI, Yujiro; HIRAMA, Masahiro**4D2-05** Remote C-H Bond Functionalization of the Androstane C-Ring (Graduate School of Science, Tohoku University) HIMURO, Masafumi; YAMASHITA, Shuji; HAYASHI, Yujiro; HIRAMA, Masahiro**4D2-06** Synthetic studies on Tubiferal A (Hokkaido Univ.) HIRAMATSU, Takahiro; TANINO, Keiji

Chair: SHOJI, Mitsuru (10:10~11:10)

\* 10:00-10:10: interval for laptop PC connection.(4D2-08, 4D2-09, 4D2-11, 4D2-12)

**4D2-08** Synthetic studies on marine natural product, polymaxenolide: Construction of the african-dihydropyran system. (Faculty of Science and Technology, Keio University) KOYAMA, Takayuki; MATSUDA, Yutaka; SAIKAWA, Yoko; NAKATA, Masaya**4D2-09<sup>\*</sup>** Enantioselective Formal Total Synthesis of Antitumor Agent, Taxol (Fac. Sci. and Eng., Waseda Univ.) HIRAI, Sho; FUJII, Tomohiro; URUSHIZAKO, Naoko; NAKADA, Masahisa**4D2-11** Development of Liebeskind-Srogl-Intramolecular Diels-Alder Cascade Reaction (Dept. of Chem. and BioChem., Adv. Sch. of Sci. and Engin., Waseda Univ.) FUJII, Tomohiro; NIWA, Takashi; NAKADA, Masahisa**4D2-12<sup>\*</sup>** Enantioselective Total Synthesis of (-)-scabronine A and G (Dept. of Chem. and Biochem., Sch. of Adv. Sci. and Engin., Waseda Univ.) KOBAYAKAWA, Yu; NAKADA, Masahisa

Chair: YAMASHITA, Shuji (11:20~12:20)

\* 11:10-11:20: interval for laptop PC connection.(4D2-15, 4D2-16, 4D2-17, 4D2-18, 4D2-19, 4D2-20)

**4D2-15** Total Synthesis and Stereostructural Determination of Sarcophytolide C (Okayama University) IWAMOTO, Kohei; NAKAO, Eiji; TAKAMURA, Hiroyoshi; KADOTA, Isao**4D2-16** Synthetic Study of Scabrolide F (Okayama University) MORISHITA, Ryohei; TAKAMURA, Hiroyoshi; KADOTA, Isao**4D2-17** Synthesis of compounds possessing a hydrogenated geranylgeranyl moiety (Ritsumeikan Univ.) TAMIYAKI, Hitoshi; NOMURA, Kota; MACHIDA, Shinnosuke; ISAJI, Megumi**4D2-18** Total synthetic study of Valerena-4,7(11)-diene (Dept. Adv. Biosci., Grad. Sch. Agric., Kinki Univ.) SHIRAI, Takashi; TSUMAGATA, Hiroki; KITAYAMA, Takashi**4D2-19** Synthetic Studies on Aldingenin C, a Brominated Sesquiterpenoid derived from Red Alga (RIKEN ASI; Saitama Univ.) YASUDA, Masayuki; KOSHINO, Hiroyuki; HATANNO, Ken; MATSUOKA, Koji; TAKAHASHI, Shunya**4D2-20** Development of a Synthetic Methodologies toward AB-ring of Physalins Using Diels-Alder Reaction (RIKEN) MORITA, Masaki; HIRAI, Go; SODEOKA, Mikiko

## Monday, March 25, PM

Chair: MORIMOTO, Yoshiki (13:30~14:30)

\* 13:20-13:30: interval for laptop PC connection.(4D2-28, 4D2-30, 4D2-32, 4D2-33)

**4D2-28<sup>\*</sup>** Total Synthesis of Cyclobakuchiolols by Conformation-controlled Allylic Substitution (Tokyo Institute of Technology; Department of Biomolecular Engineering) KAWASHIMA, Hidehisa; SAKAI, Masahiro; KOBAYASHI, Yuichi**4D2-30<sup>\*</sup>** Synthetic Study of Highly Alkylated Phloroglucinol Derivatives (Graduate school of Sci., Osaka City Univ.) NISHIMURA, Eiji; SHINADA, Tetsuro; OHFUNE, Yasufumi**4D2-32** Synthesis of JHSB<sub>3</sub> Analogs Bearing C<sub>17</sub> or C<sub>16</sub> Sesquiterpene Backbone (Graduate School of Sci., Osaka City Univ.) ANDO, Yumi; MANABE, Atsushi; SHINADA, Tetsuro; OHFUNE, Yasufumi**4D2-33** Synthetic Study of Polyisoprenoids (Graduate School of Sci., Osaka City Univ.) MURATA, Yusuke; SHINADA, Tetsuro; OHFUNE, Yasufumi

Chair: SAIKAWA, Yoko (14:40~15:40)

\* 14:30-14:40: interval for laptop PC connection.(4D2-35, 4D2-36, 4D2-37, 4D2-38, 4D2-39, 4D2-40)

**4D2-35** Isolation of Antileishmanial Compounds from the Brown Alga *Sargassum yamadai* (Aoyama Gakuin Univ.) YAMAZAKI, Masatoshi; OSADA, Yasutaka; SANJOBA, Chizu; GOTO, Yasuyuki; MATSUMOTO, Yoshitsugu; KIMURA, Junji**4D2-36** New diterpenoids of *Caesalpinia echinata* Lam. (Okayama Univ. of science) ISHIIHARA, Risa; MITSUI, Taichi; HAYASHI, Ken-ichiro; MATSUURA, Nobuyasu; NOZAKI, Hiroshi**4D2-37** Search of SIRT3 inhibitor from the marine sponge. (Department of Chemistry and Biochemistry, School of advanced Science and Engineering, Waseda Univ.) TOMACHI, Yuki; NAKAO, Yoichi; ITO, Akihiro; YOSHIDA, Minoru**4D2-38** Stereochemistry and biological activity of shinanthrene A (Department of Chemistry and Biochemistry, School of Advanced Science and Engineering, Waseda University) MACHIDA, Koshi; OKAMOTO, Mayumi; SHIMIZU, Isao; NAKAO, Yoichi**4D2-39** Study of Anti-inflammatory Substances from Marine Origin (Univ. of Tsukuba) KAWAMURA, Atsushi; GISE, Baro; KITA, Masaki; KIGOSHI, Hideo**4D2-40<sup>\*</sup>** Isolation and structure of a novel cyclic peptide that show anti-inflammatory activity (Univ. of Tsukuba) GISE, Baro; KAWAMURA, Atsushi; KITA, Masaki; KIGOSHI, Hideo

Chair: YAMAZAKI, Masatoshi (15:50~16:50)

\* 15:40-15:50: interval for laptop PC connection.(4D2-42, 4D2-43, 4D2-44, 4D2-45, 4D2-46, 4D2-47)



- 4D2-42** Microgram scale X-ray crystallography of natural products using porous crystals (School of Engineering, The Univ. of Tokyo) INOKUMA, Yasuhide; ARIYOSHI, Junko; YOSHIOKA, Shota; TAKADA, Kentaro; MATSUNAGA, Shigeki; FUJITA, Makoto
- 4D2-43** Purification and Spectral Analysis of *trans*-Lycopene (School of Engineering, The Univ. of Shiga Prefecture; Kagome Co. Ltd.) KUWA, Takahiro; INOUE, Yoshinori; TAKEHARA, Munenori; KUMAGAI, Tsutomu; HONDA, Masaki
- 4D2-44** Isolation and Characterization of *cis*-Isomers on Heating of *trans*-Lycopene (School of Engineering, The Univ. of Shiga Prefecture; Kagome Co., Ltd.) KUDOU, Tatsuya; INOUE, Yoshinori; TAKEHARA, Munenori; KUMAGAI, Tsutomu; HONDA, Masaki
- 4D2-45** Thermal Isomerization of *trans*-Lycopene in Benzene Solution (School of Engineering, The Univ. of Shiga Prefecture; Kagome Co. Ltd.) NISHIMURA, Masatoshi; INOUE, Yoshinori; TAKEHARA, Munenori; KUMAGAI, Tsutomu; HONDA, Masaki
- 4D2-46** Physical Properties and Chemical Reactions of 9-*cis* Lycopene and 13-*cis* Lycopene (School of Engineering, The Univ. of Shiga Prefecture; Kagome Co. Ltd.) NISHIKAWA, Tomoya; INOUE, Yoshinori; TAKEHARA, Munenori; KUMAGAI, Tsutomu; HONDA, Masaki
- 4D2-47** Photoisomerization of Lycopenes using long Wavelength Light (> 500 nm) (School of Engineering, The Univ. of Shiga Prefecture; Kagome Co., Ltd.) HAYASHI, Kento; INOUE, Yoshinori; TAKEHARA, Munenori; KUMAGAI, Tsutomu; HONDA, Masaki

## Room D3

### FOREST HOUSE F110

## Organic Chemistry -Reaction and Synthesis- Organic Electron Transfer Chemistry

Friday, March 22, AM

Chair: SENBOKU, Hisanori (10 : 00~11 : 00)

- \* 9:50-10:00: interval for laptop PC connection.(1D3-07, 1D3-08, 1D3-09, 1D3-10, 1D3-11, 1D3-12)
- 1D3-07** Electroreductive polymerization of 9,10-bis(4-chlorodimethylsilylphenyl)anthracene (Kinki Univ.) SUGIMOTO, Miyuki; ISHIFUNE, Manabu
- 1D3-08** Functionalization of the electrochemically synthesized polysilanes and synthesis of water soluble block type polycarbosilanes (Kinki Univ.) MORI, Syuji; AKIYAMA, Kenzo; ISHIFUNE, Manabu
- 1D3-09** Synthesis and Electrochemical Properties of Pyrene-4,5,9,10-tetraone and Its Polymer (Graduate School of Engineering, Kyoto University; Panasonic Corporation) TSUJII, Yutaka; SHIMIZU, Akihiro; NOKAMI, Toshiki; KURAMOTO, Hiroki; MATSUO, Takahiro; INATOMI, Yu; HOJO, Nobuhiko; TSUKAGOSHI, Takafumi; YOSHIZAWA, Hiroshi; YOSHIDA, Jun-ichi
- 1D3-10** Charge-Discharge Properties of Polymer-Bound Pyrene-4,5,9,10-Tetraone (Graduate School of Engineering, Kyoto University; Panasonic Corporation) KURAMOTO, Hiroki; SHIMIZU, Akihiro; NOKAMI, Toshiki; TSUJII, Yutaka; MATSUO, Takahiro; INATOMI, Yu; HOJO, Nobuhiko; TSUKAGOSHI, Takafumi; YOSHIZAWA, Hiroshi; YOSHIDA, Jun-ichi
- 1D3-11** Preparation of polymer-grafted surface from electrografted initiator (Tokyo Institute of Technology) SHIDA, Naoki; FUCHIGAMI, Toshio; TOMITA, Ikuyoshi; INAGI, Shinsuke
- 1D3-12** Surface functionalization of carbon-based materials under anodic conditions and grafting of thermoresponsive polymers by using a living radical polymerization method (Kinki Univ.) NISHIO, Akihiro; KAWAMURA, Takashi; ISHIFUNE, Manabu

Chair: ISHIFUNE, Manabu (11 : 10~12 : 10)

- \* 11:00-11:10: interval for laptop PC connection.(1D3-14, 1D3-15, 1D3-16, 1D3-17, 1D3-18, 1D3-19)
- 1D3-14** A highly polar aprotic solvent suitable for electron transfer reductions (Okayama University, Faculty of Engineering) KIKUCHI, Seiya; YOSHIKAWA, Mai; KATAGIRI, Toshimasa
- 1D3-15** Reduction of Triphenylphosphine Oxide to Triphenylphosphine with Zn/Me<sub>3</sub>SiCl in DMI-LiCl Solvent System (Okayama University) KUROBOSHI, Manabu; KITA, Toshihito; TANAKA, Hideo; KATAGIRI, Toshimasa
- 1D3-16** Mg-Promoted Reduction of Vinylpyridine Derivatives in the Presence of Electrophiles (Nagaoka University of Technology) NISHIYAMA, Yutaro; MAEKAWA, Hirofumi
- 1D3-17** Mg-Promoted silylation of aromatic conjugated ynones (Nagaoka University of Technology) MAEKAWA, Hirofumi; TAKANO, Atsushi; WATANABE, Masamitsu
- 1D3-18** Mg-promoted reduction of aromatic esters in the presence of carbon dioxide. (Nagaoka University of Technology) OKAWARA, Hikaru; MURAKAMI, Taro; MAEKAWA, Hirofumi
- 1D3-19** Synthesis of alpha-Amino Acid Derivatives by Using Electrochemical

Carboxylation (Faculty of Eng. Hokkaido Univ.; Graduate School of Chem. Sci. and Eng. Hokkaido Univ.; School of Eng. Hokkaido Univ.) SENBOKU, Hisanori; MINEMURA, Yoshihito; YONEDA, Kenji; HARA, Shoji

Friday, March 22, PM

Chair: MITSUDO, Koichi (14 : 20~15 : 20)

- \* 14:10-14:20: interval for laptop PC connection.(1D3-33, 1D3-34, 1D3-35, 1D3-36, 1D3-37, 1D3-38)
- 1D3-33** Paired Electrochemical Reaction of a Poly(flourenol) Derivative and Optoelectrochemical Properties of Product Polymers (Tokyo Institute of Technology) NAGAI, Hiroyuki; TOMITA, Ikuyoshi; FUCHIGAMI, Toshio; INAGI, Shinsuke
- 1D3-34** Electrocatalytic Fluorodesulfurization Using Halogen Mediator in Ionic Liquid HF Salts (Tokyo Institute of Technology) TAKAHASHI, Kohta; INAGI, Shinsuke; FUCHIGAMI, Toshio
- 1D3-35** Electropolymerization of benzene in oxidation-resistant solvents (Shibaura Institute of Technology) YOSHII, Hiroto; SUZUKI, Kento; TAJIMA, Toshiki
- 1D3-36** Anodic Oxidation of Carbamates in the Presence of Strong Acids and Its Application to Carbon-Carbon Bond Forming Reactions (Shibaura Institute of Technology) FUNATSU, Kohei; TAKABAYASHI, Akihiro; YAMAZAKI, Koki; TAJIMA, Toshiki
- 1D3-37** Addition of ArSSAr to Alkenes. Implication of a Cationic Chain Mechanism Initiated by Electrogenated ArS(ArSSAr)<sup>+</sup> (Kinki University; Okayama University; Kyoto University) MATSUMOTO, Kouichi; SANADA, Tomonari; SHIMAZAKI, Hayato; SHIMADA, Kazuaki; FUJIE, Shunsuke; ASHIKARI, Yosuke; SUGA, Seiji; KASHIMURA, Shigenori; YOSHIDA, Jun-ichi
- 1D3-38** Addition of Diaryldisulfides to Alkenes Catalyzed by Electrogenated Acid (EGA) (Kinki University; Okayama University; Kyoto University) MATSUMOTO, Kouichi; SHIMAZAKI, Hayato; SANADA, Tomonari; SHIMADA, Kazuaki; SUGA, Seiji; KASHIMURA, Shigenori; YOSHIDA, Jun-ichi

Chair: KUROBOSHI, Manabu (15 : 30~16 : 30)

- \* 15:20-15:30: interval for laptop PC connection.(1D3-40, 1D3-41, 1D3-42, 1D3-43, 1D3-45)
- 1D3-40** Anodic oxidation of sugar derivatives and asymmetric induction (Fac. Sci. Tech., Keio Univ.) YAJIMA, Saki; KAWA, Kohei; SAITOH, Tsuyoshi; NISHIYAMA, Shigeru
- 1D3-41** Synthesis and Transformations of Bis(diaryl)butadiynes Based on the Electrochemical Reaction Site Switching Strategy (Okayama Univ.) KAMIMOTO, Natsuyo; MITSUDO, Koichi; SUGA, Seiji
- 1D3-42** Synthesis of Bis(diaryl)butadiynes Bearing Two Amino Groups Based on the Electrochemical Reaction Site Switching and Their Properties (Okayama Univ.) NAKAMURA, Nariaki; KAMIMOTO, Natsuyo; MITSUDO, Koichi; SUGA, Seiji
- 1D3-43\*** Electrochemical Oxidative Generation of Cationic Br-DMSO Species and Its Reactions (Graduate School of Engineering, Kyoto Univ.) ASHIKARI, Yosuke; NOKAMI, Toshiki; YOSHIDA, Junichi
- 1D3-45** Reactions promoted by the electrochemically generated organocations (Okayama Univ.) ONISHI, Yuki; TAKASUKA, Yuki; OKAMURA, Yuuya; FUJIWARA, Ikumi; MITSUDO, Koichi; SUGA, Seiji

Chair: INAGI, Shinsuke (16 : 40~17 : 30)

- \* 16:30-16:40: interval for laptop PC connection.(1D3-47, 1D3-48, 1D3-49, 1D3-50, 1D3-51)
- 1D3-47** Asymmetric allylation of aldehydes by Allyl-Transfer reaction: reactivities of aldehydes (Okayama Univ. of Sci., Faculty of Engineering) HIROTA, Daichi; FUJII, Kazuhiko; MIZUTANI, Yusuke; NOKAMI, Junzo
- 1D3-48** Synthesis and Physical Properties of Nitrogen-Bridged Dibenzothienopyrrole Derivatives (Okayama Univ.) MIZOGUCHI, Jun; MITSUDO, Koichi; SUGA, Seiji
- 1D3-49** Bromide-Mediated Indirect and Direct Electrooxidation of Amine Derivatives: Direct Access to Azo Compounds (Graduate School of Natural Science and Technology, Okayama University) HAYASHI, Yuki; SHIBASAKI, Kouta; KUROBOSHI, Manabu; TANAKA, Hideo
- 1D3-50** Electrochemical Synthesis of Aromatic Primary Amines (Graduate School of Engineering, Kyoto University) MOROFUJI, Tatsuya; SHIMIZU, Akihiro; YOSHIDA, Jun-ichi
- 1D3-51** Electrochemical synthesis of polyaromatic hydrocarbon cored dendrimers (Graduate School of Engineering, Kyoto University.) TAKEDA, Keiji; SHIMIZU, Akihiro; NOKAMI, Toshiki; YOSHIDA, Jun-ichi

Saturday, March 23, AM

Chair: SAITOH, Tsuyoshi (10 : 00~11 : 00)

- \* 9:50-10:00: interval for laptop PC connection.(2D3-07, 2D3-08, 2D3-10, 2D3-11, 2D3-12)
- 2D3-07** Three-component Coupling Reaction of Active Methylene Compounds, Dienes, and Electron-deficient Alkenes via Photoinduced Electron Transfer (Kanazawa University) TAKAYAMA, Hiroshi; MAEDA, Hajime; SEGI, Masahito
- 2D3-08\*** Generation of C- or Si-Bridged Open-shell Species Tetramethyle-

neethane by Photoinduced Electron Transfer (Grad. Sch. of Eng., Osaka Pref. Univ.; RIMED, Osaka Pref. Univ.) KANO, Yusuke; SAKAKI, Shotaro; OHTA, Eisuke; MIZUNO, Kazuhiko; IKEDA, Hiroshi

**2D3-10** Application of vitamin B12 - Ru photosensitizer hybrid polymer to Cross coupling reaction (Kyushu Univ.) HOUFUKU, Noriyuki; SHIMAKOSHI, Hisashi; ABE, Masaaki; HISAEDA, Yoshio

**2D3-11** Radical Anions Possessing a One-electron  $\sigma$ -Bond in Derivatives of 2,2'-Bis(diarylboryl)biphenyl (Grad. Sch. of Eng., Osaka Pref. Univ.; RIMED, Osaka Pref. Univ.; Inst. for Chem. Res., Kyoto Univ.; JST-PREST) NISHIMURA, Kazuki; OHTA, Eisuke; MIZUNO, Kazuhiko; WAKAMIYA, Atsushi; MURATA, Yasujiro; IKEDA, Hiroshi

**2D3-12** Reactivity of Azulene Radical Anion-A Computational Study- (Gunma Coll. of Tech.; Nagaoka Univ. of Tech.) AKABA, Ryoichi; MAEKAWA, Hirofumi

Chair: NOKAMI, Toshiki (11 : 10~12 : 10)

\* 11:00-11:10: interval for laptop PC connection.(2D3-14, 2D3-15, 2D3-16, 2D3-17, 2D3-18, 2D3-19)

**2D3-14** Synthesis of Hexa(2-furyl)benzene Derivatives and Their Electrochemical Properties (Okayama Univ.) HARADA, Junji; MITSUDO, Koichi; SUGA, Seiji

**2D3-15** Synthesis of Hexa(2-thienyl)benzene Derivatives and Their Electrochemical Properties (Okayama Univ.) TANAKA, Yo; HARADA, Junji; MITSUDO, Koichi; SUGA, Seiji

**2D3-16** Emulsion Electrolysis Reduction of Fumaric Acid Diethyl Ester Using Tandem Acoustic Emulsification (Yokohama National Univ.;Tokyo Institute of Technology) KOIZUMI, Toru; NAKABAYASHI, Koji; KASHIWAGI, Tsuneo; ATOBE, Mahito

**2D3-17** Preparation of electrogenerated base in a flow microreactor and its synthetic use (Yokohama National Univ.; Tokyo Institute of Technology) YAMAJI, Yoshiyuki; KASHIWAGI, Tsuneo; NAKABAYASHI, Koji; ATOBE, Mahito

**2D3-18** Electroreductive Homo-Coupling Reaction of Aryl Halides Using Pyridinium Salt/Pd Complex Double-mediatory System (Graduate School of Natural Science and Technology, Okayama University) KATAOKA, Ryuke; KUROBOSHI, Manabu; TANAKA, Hideo

**2D3-19** Electron Transfer Behavior of Carborane-Triphenylamine Dyad (Tokyo Institute of Technology) INAGI, Shinsuke; HOSOI, Kohei; KUBO, Tatsuya; FUCHIGAMI, Toshio

## Organic Chemistry -Reaction and Synthesis- High-Throughput Synthesis

Saturday, March 23, PM

Chair: FUKUYAMA, Takahide (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(2D3-28, 2D3-31, 2D3-32, 2D3-33)

**2D3-28** Young Scholar Lectures of CSJ A flow-microreactor approach to organolithium reactions (Graduate School of Engineering, Kyoto University) Nagaki, Aiichiro

**2D3-31** Diastereodifferentiating [2+2] photocycloaddition at high concentrations in a microreactors (Graduate School of Materials and Science, Nara Institute of Science and Technology) NISHIYAMA, Yasuhiro; AIDA, Shin; TERAO, Kimitada; KAKIUCHI, Kiyomi

**2D3-32** Selective Bromination of Benzylic Position under Photo-Micro Flow System (Grad. Sch. Sci., Osaka Univ.) KITAWAKI, Yuriko; MANABE, Yoshiyuki; FUKASE, Koichi

**2D3-33** Pauson-Khand Reactions Promoted by Activation of Alkyne-Cobalt Complexes in a Photochemical Flow Microreactor (Kyoto Univ.) UESUGI, Yuki; ASANO, Keisuke; YOSHIDA, Jun-ichi

Chair: NAGAKI, Aiichiro (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(2D3-35, 2D3-36, 2D3-37, 2D3-38, 2D3-39, 2D3-40)

**2D3-35** Flow Photo-Induced Radical Reduction of Brominated Hydrocarbons in the Presence of Triethylamine (Graduate School of Science, Osaka Prefecture University) FUJITA, Yuki; FUKUYAMA, Takahide; RYU, Ilhyong

**2D3-36** Quick Optimization of Borohydride Mediated Giese Reaction Using an Automated Microreactor System (Graduate School of Science, Osaka Prefecture University) FUKUYAMA, Takahide; TOTOKI, Takenori; RYU, Ilhyong

**2D3-37** Generation and Carbonylation of (1-Silylallyl)lithiums Using Flow Microreactors (Graduate School of Science, Osaka Prefecture University) FUKUYAMA, Takahide; TOTOKI, Takenori; RYU, Ilhyong

**2D3-38** Magnetized biogenous iron oxide-immobilized lipase for kinetic resolution of secondary alcohols in a micro channel (Okayama Univ.) MANDAI, Kyoko; FUKUDA, Takehiro; MITSUDO, Koichi; MANDAI, Hiroki; MIYAZAKI, Yuki; EMA, Tadashi; HASHIMOTO, Hideki; TAKADA, Jun; SUGA, Seiji

**2D3-39** Flow synthesis of Hexahydroxydiphenoyl group (School of Science and Technology, Kwansai Gakuin University) KURODA, Kazuhiro; NISHII, Kentaro; YAMADA, Hidetoshi

**2D3-40** Continuous-flow peptide synthesis using in situ generated phosgene

(Grad. Sch. Sci., Eng., Tokyo Tech) FUSE, Shinichiro; MIFUNE, Yuto; TAKAHASHI, Takashi

Chair: ORITA, Akihiro (15 : 50~16 : 50)

\* 15:40-15:50: interval for laptop PC connection.(2D3-42, 2D3-43, 2D3-44, 2D3-46)

**2D3-42** Microwave Assisted Suzuki-Miyaura Coupling Reaction in a Continuous Flow System in the Presence of Heterogeneous Palladium Catalyst (Osaka Prefecture University) KANAZAWA, Akira; SATO, Masaaki

**2D3-43** Exploration of the Click Reaction Using Ascorbic-acid-based Ionic Liquid Under Microwave Irradiation (Tokai Univ.) NAKAMURA, Kaori; KOGUCHI, Shinichi

**2D3-44\*** Microwave-energy assisted quick and clean organic syntheses: Computational visualization of reaction intermediates (Osaka Univ., Minerva Light Laboratory L.L.C.) YANAGIDA, Shozo; MATSUMURA, Takeko

**2D3-46\*** Microwave-energy assisted quick and clean syntheses: Synthesis of metal complexes and visualization of reaction process by DFT method. (Minerva Light Laboratory L.L.C. ; Osaka Univ.) MATSUMURA, Takeko; MASUDA, Yoshitaka; YANAGIDA, Shozo

Sunday, March 24, AM

Chair: MANDAI, Hiroki (10 : 00~11 : 00)

\* 9:50-10:00: interval for laptop PC connection.(3D3-07, 3D3-08, 3D3-10, 3D3-11)

**3D3-07** Development of a Membranous Polymeric Copper Composite-Installed Microdevice: Application to the Huisgen Cycloaddition (RIKEN) OHNO, Aya; YAMADA, Yoichi M. A.; UOZUMI, Yasuhiro

**3D3-08\*** Development of silicon nanostructure-supported palladium nanoparticle catalysts (RIKEN) SATO, Takuma; YUYAMA, Yoshinari; YAMADA, Yoichi M. A.; FUJIKAWA, Shigenori; UOZUMI, Yasuhiro

**3D3-10** Flash Generation of a Highly Reactive Pd Catalyst for Suzuki-Miyaura Coupling (Kyoto Univ.) MORIWAKI, Yuya; TAKABAYASHI, Naofumi; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi

**3D3-11\*** Aerobic Flow Oxidation of Alcohols in Water with an Amphiphilic Polymer-Supported Platinum Nanocatalyst (Institute for Molecular Science, JST-CREST) OSAKO, Takao; TORII, Kaoru; UOZUMI, Yasuhiro

Chair: FUSE, Shinichiro (11 : 10~12 : 00)

\* 11:00-11:10: interval for laptop PC connection.(3D3-14, 3D3-16, 3D3-17, 3D3-18)

**3D3-14\*** Space Integration of Lithiation and Cross-Coupling (Kyoto Univ.) MORIWAKI, Yuya; HARAKI, Suguru; TAKABAYASHI, Naofumi; KENMOKU, Akira; HAYASHI, Atsushi; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi

**3D3-16** Preparation of Low-Valent Pd Catalysts in a Flow Microreactor and Their Use in Cross-Coupling Reactions (Kyoto Univ.) MURAKAMI, Ryo; ASANO, Keisuke; YOSHIDA, Jun-ichi

**3D3-17\*** The Suzuki-Miyaura and Mizoroki-Heck reactions with a self-assembled poly(imidazole-palladium) catalyst (RIKEN) SARKAR, Shaheen; YAMADA, Yoichi; UOZUMI, Yasuhiro

**3D3-18** Direct Esterification of Alcohol and Carboxylic Acid with a Phenol Sulfonic Acid-Formaldehyde Resin Catalyst under Solvent-Free Conditions (RIKEN) MINAKAWA, Maki; BEAK, Heeyeol; YAMADA, Yoichi; UOZUMI, Yasuhiro

Sunday, March 24, PM

Chair: YAMADA, Yoichi M. A. (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(3D3-28, 3D3-29, 3D3-30, 3D3-31, 3D3-32, 3D3-33)

**3D3-28** Polymerization of Acetoxyacrylate in Flow (Graduate School of Engineering, Kyoto Univ.) TAKAHASHI, Yusuke; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi

**3D3-29** Anionic Polymerization of Perfluoroalkyl Methacrylates in Flow (Faculty of Engineering, Kyoto Univ.) AKAHORI, Kana; TAKAHASHI, Yusuke; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi

**3D3-30** Synthesis of Branched Polymers Based on Anionic Polymerization of Styrene in Flow (Grad. Sch. Eng., Kyoto Univ.) TAKUMI, Masahiro; SHIMIZU, Akihiro; NOKAMI, Toshiki; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi

**3D3-31** Ionic Liquid Phase Synthesis of 1,5-Disubstituted 1,2,3-Triazoles (Tokai Univ.) IZAWA, Kazuki; KOGUCHI, Shinichi

**3D3-32** The Optimum Structure of Amphiphilic Polymer Beads for Promotion of Oxidation of Alkenes by Oxone in Aqueous Medium (Osaka Institute of Technology) TANAKA, Jun; KOBAYASHI, Shoji; MASUYAMA, Araki

**3D3-33** Switching Between Intermolecular and Intramolecular Reactions of Aryllithiums Based on Residence Time Control (Kyoto Univ.) KIM, Songhee; ONOE, Masahiro; TOBISU, Mamoru; CHATANI, Naoto; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi

Chair: NISHIYAMA, Yasuhiro (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(3D3-35, 3D3-36, 3D3-37, 3D3-38, 3D3-39)

- 3D3-35** Selectivity Control in Reactions of Organolithiums with Polyfunctional Electrophiles Using Flow Microreactors (Kyoto Univ.) IMAI, Keita; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi
- 3D3-36** Halogen-Lithium Exchange Reactions of *o*-Dihalobenzenes Using Flow Microreactor Systems (Kyoto Univ.) ICHINARI, Daisuke; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi
- 3D3-37** Generation and Reactions of Benzyl Lithiums Using Flow Microreactor Systems (Kyoto Univ.) HARAKI, Suguru; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi
- 3D3-38** Diversity Oriented Synthesis of flavone derivatives (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Tech) TANAKA, Hiroshi; LI, Yuen; TAKAHASHI, Takashi
- 3D3-39\*** Development of novel synthetic routes for cyclic  $\alpha$ -iminocarboxamide based on C-C bond formation (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Tech) MASUI, Hisashi; FUSE, Shinichiro; TAKAHASHI, Takashi

Chair: TORIKAI, Kohei (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(3D3-42, 3D3-43, 3D3-44, 3D3-45, 3D3-46, 3D3-47)
- 3D3-42** Construction of a Combinatorial Library of Origo-heteroaromatic Compounds Based on Three-Component One-pot Coupling Reaction (Grad. Sch. Sci., Eng., Tokyo Tech) FUSE, Shinichiro; MATSUMURA, Keisuke; YOSHIKAWA, Susumu; TAKAHASHI, Takashi
- 3D3-43** Synthesis of Organic Dyes Containing Bicyclic Donor Moiety Based on Sequential Palladium-Catalyzed Coupling and its Functional Evaluation. (Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Tech) FUSE, Shinichiro; TAKAHASHI, Ryota; TAKAHASHI, Takashi
- 3D3-44** Development of Efficient Synthetic Method for Multi-Substituted Pyrazoles Based on Sequential Multi-Component Coupling Reaction (Grad. Sch. Sci., Eng., Tokyo Tech) FUSE, Shinichiro; KOBAYASHI, Daisuke; IJIMA, Yusuke; TAKAHASHI, Takashi
- 3D3-45** Syntheses of Phenyleneethynylenes by Using Ph<sub>2</sub>P(O)-protected Ethynes (Okayama University of Science) ORITA, Akihiro; PENG, Lifeng; SUZUMA, Yoshinori; XU, Feng; OTERA, Junzo
- 3D3-46** Generation and Reactions of Trifluoromethylvinyl Lithium Using Flow Microreactor Systems (Kyoto Univ.) TOKUOKA, Shinya; ICHITSUKA, Tomohiro; ICHIKAWA, Junji; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi
- 3D3-47** Synthesis of  $\alpha$ -Ketoesters Using Flow Microreactor Systems (Kyoto Univ.) ICHINARI, Daisuke; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi

## Natural Products Chemistry

### Monday, March 25, AM

Chair: EBINE, Makoto (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4D3-01, 4D3-02, 4D3-03, 4D3-04, 4D3-05)
- 4D3-01** Synthetic studies of halichonine B (Univ. of Tsukuba) NAKAMURA, Tomomi; SAKAI, Yusuke; HAYAKAWA, Ichiro; KIGOSHI, Hideo
- 4D3-02** THREE-COMPONENT REACTION USING N-METHOXYAMINES (Keio Univ.) FUKAMI, Yutaro; KUROSAKI, Yusuke; SHIROKANE, Kenji; SATO, Takaaki; CHIDA, Noritaka
- 4D3-03** Total synthesis of (+)-Cylindradine A (Tokyo University of Agriculture and Technology) IWATA, Makoto; KANO, Kyohei; IMAOKA, Takuya; NAGASAWA, Kazuo
- 4D3-04** Copper(I)-catalyzed formation of dihydropyridine ring (Hokkaido University) MINAMI, Shintaro; MIZOGUCHI, Haruki; OGURI, Hiroki; OIKAWA, Hideaki
- 4D3-05\*** Biogenetically-inspired synthesis and skeletal diversification of indole alkaloids (Graduate School of Chemical Sciences and Engineering & Graduate School of Science, Hokkaido University.) MIZOGUCHI, Haruki; OGURI, Hiroki; OIKAWA, Hideaki

Chair: HAYAKAWA, Ichiro (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(4D3-08, 4D3-10, 4D3-11, 4D3-13)
- 4D3-08\*** Total Synthesis of Gephyrotoxin: Application of Chemoselective Nucleophilic Addition to N-Methoxyamides (Keio Univ.; CHIDA Group) SHIROKANE, Kenji; WADA, Takamasa; YORITATE, Makoto; MINAMIKAWA, Ryo; TAKAYAMA, Nobuaki; SATO, Takaaki; CHIDA, Noritaka
- 4D3-10** Synthetic studies on Palau'amine (Hokkaido Univ.; Laboratory of Organic Chemistry II) TAKEUCHI, Kohei; KAIHARA, Yukari; NAMBA, Kosuke; TANINO, Keiji
- 4D3-11\*** New Insights into the Mechanism and an Expanded Scope of the Fe (III)-Mediated Vinblastine Coupling Reaction (The Scripps Research Institute) GOTOH, Hiroaki; SEARS, Justin; ESCHENMOSER, Albert; BOGER, Dale
- 4D3-13** Nickel-catalyzed dimerizations of pyrrolidinoindoline scaffolds forming vicinal quaternary centers (Graduate School of Science, Hokkaido University) WADA, Mitsuhiro; OGURI, Hiroki; OIKAWA, Hideaki

Chair: OGURI, Hiroki (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(4D3-15, 4D3-16, 4D3-17, 4D3-18, 4D3-19, 4D3-20)
- 4D3-15** Synthetic studies on Zetekitoxin AB : Construction of amide C13 (Tokyo Univ. of Agri. and Technol.) NISHIKAWA, Toru; AKIMOTO, Takafumi; IWAMOTO, Osamu; KOSHINO, Hiroyuki; NAGASAWA, Kazuo
- 4D3-16** Synthetic Studies on Zetekitoxin AB Focusing on Construction of Side Chain at C11 (Department of Biotechnology and Life, Faculty of Technology, Tokyo University of Agriculture and Technology) AKIMOTO, Takafumi; NISHIKAWA, Toru; IWAMOTO, Osamu; KOSHINO, Hiroyuki; NAGASAWA, Kazuo
- 4D3-17** Synthetic study of aplaminal, a marine alkaloid (Univ. of Tsukuba) OHYOSHI, Takayuki; KANEKO, Takahiro; KIGOSHI, Hideo
- 4D3-18** Total Synthesis of (-)-Stemoamide: Application of Sequential Overman/Claisen Rearrangement (Keio University) NAKAYAMA, Yasuaki; SEKIYA, Ruriko; SEKI, Yuna; SATO, Takaaki; CHIDA, Noritaka
- 4D3-19** Synthetic studies of yuzurimine A (Univ. of Tsukuba) NIIDA, Keisuke; HAYAKAWA, Ichiro; KIGOSHI, Hideo
- 4D3-20** Synthetic Study of Madangamines (Keio Univ.) YANAGITA, Yuta; MATSUO, Naoya; KUROSU, Yasuhiro; SATO, Takaaki; CHIDA, Noritaka

### Monday, March 25, PM

Chair: SATO, Takaaki (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(4D3-28, 4D3-29, 4D3-30, 4D3-31, 4D3-32)
- 4D3-28** Synthesis of C13-N-substituted saxitoxin derivatives and evaluation of their NaVCh inhibitory activity (Department of Biotechnology and Life, Faculty of Technology) MASUDA, Asako; SHINOHARA, Ryoko; AKIMOTO, Takafumi; YOTSU-YAMASHITA, Mari; NAGASAWA, Kazuo
- 4D3-29** Synthetic study of indolizidine alkaloids using unsaturated imines (Grad. Sch. Mat. Sci., NAIST) SUGIURA, Takahiro; TANIMOTO, Hiroki; HAYASHI, Kyohei; KAKIUCHI, Kiyomi
- 4D3-30** Synthetic Studies on (-)-Lepadiformine A (Graduate School of Sci., Osaka City Univ.) EZAKI, Shinnosuke; KOYAMA, Tomoyuki; TACHI, Yoshimitsu; MORIMOTO, Yoshiaki
- 4D3-31** Researching the antimicrobial compounds against MDR P.aeruginosa from the marine sponge (Department of Chemistry and Biochemistry, School of Advanced Science and Engineering, Waseda Univ.) YOSHINO, Tetsuya; NAKAO, Yoichi; KIRIKAE, Teruo
- 4D3-32\*** Synthesis and Assignment of the Absolute Configuration of Indenotryptoline Bisindole Alkaloid BE-54017 (Institute of Microbial Chemistry) KIMURA, Tomoyuki; KANAGAKI, Shuhei; IMOTO, Masaya; WATANABE, Takumi; SHIBASAKI, Masakatsuo

Chair: TANIMOTO, Hiroki (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(4D3-35, 4D3-37, 4D3-38, 4D3-39, 4D3-40)
- 4D3-35\*** One-Pot Synthesis of 2-Aminoimidazole Derivatives Inspired by Arginine Post-Translational Modification (RIKEN Advanced Science Institute; Osaka university, Department of Chemistry) IWATA, Takayuki; FUKASE, Koichi; TANAKA, Katsunori
- 4D3-37** Asymmetric synthesis of substituted amines by imino [4+4]/[4+2] cascade reaction (RIKEN Advanced Science Institute) PRADIPTA, Ambara Rachmat; TANAKA, Katsunori
- 4D3-38** Large scale culture of dinoflagellate and Physiological activity of symbioimine (Univ. of Kanagawa Chemical) YOKOTA, Keisuke; KAWAZOE, Yoshinori; UEMURA, Daisuke
- 4D3-39** Searching for Bioactive Alkaloids from Marine Sponge (Ehime University) KUROKAWA, Yoshihiko; KURAMOTO, Makoto; YOKOO, Yoshitaka; MORI, Shigeki; UNO, Hidemitsu
- 4D3-40** Development of the new selective activation method at the peptide C-terminus using *N*-acetylguanidine (Grad. Sch. Sci., Osaka Univ.) ISOE, Madoka; OKAMOTO, Ryo; KAJIHARA, Yasuhiro

Chair: TANAKA, Katsunori (15 : 50~16 : 30)

- \* 15:40-15:50: interval for laptop PC connection.(4D3-42, 4D3-43, 4D3-44)
- 4D3-42** Development of the efficient synthetic method of peptide-guanidine derivatives (Osaka Univ.) SAKAMOTO, Noriko; OKAMOTO, Ryo; KAJIHARA, Yasuhiro
- 4D3-43** New preparation method of peptide-thioester utilizing a specific peptide sequence (Osaka Univ.) KANEMITSU, Yurie; OKAMOTO, Ryo; IZUMI, Masayuki; KAJIHARA, Yasuhiro
- 4D3-44\*** Synthesis of Histone H3 by Sequential Ligation Based on the Use of the Peptides Containing a Cys-Pro-Ester Auto-Activation Unit (Osaka Univ.) KAWAKAMI, Toru; AKAI, Yuichi; FUJIMOTO, Hisao; KITA, Chieko; TAKEMURA, Lisa; AOKI, Yuko; WASEDA, Masazumi; AIMOTO, Saburo

# Room D4

## FOREST HOUSE F111

### Organic Chemistry -Reaction and Synthesis- Organic Photochemistry

Friday, March 22, AM

Chair: SUENOBU, Tomoyoshi (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(1D4-08, 1D4-09, 1D4-11, 1D4-12, 1D4-13)
- 1D4-08** Synthesis and Photoreaction of 2-Vinyl-1,2-dihydropyridine Derivatives (School of Engineering, The Univ. of Shiga Prefecture) UI, Michiki; KOJIMA, Masaaki; TUKISATO, Chikara; KUMAGAI, Tutomu
- 1D4-09\*** Photo-Recycling Reactions of Chloroform: Conversions to Urea, Amide, and Carbonate (Graduate School of Science, Kobe University) TSUDA, Akihiko
- 1D4-11** Photo-Recycling Reactions of Tetrachlorinated Ethane and Ethylene: Conversions to Urea, Amide, Carbonate, and Ester (Graduate School of Science, Kobe University) ZHANG, Ailing; TSUDA, Akihiko
- 1D4-12** Radical cyclization of (2-bromoaryl)allyl ether with hydroxide ion via photoinduced electron transfer (Univ. of Fukui) KANAI, Hiroto; YOSHIMI, Yasuhiro; NISHIKAWA, Keisuke; MAEDA, Kousuke
- 1D4-13** Development of New Caged Compounds Using Thiochromone-type Photolabile Protecting Group (Nara Institute of Science and Technology) SUGIURA, Ryo; SASAKI, Yasuo; NISHIYAMA, Yasuhiro; TANIMOTO, Hiroki; HOSOKAWA, Yoichiro; KAKIUCHI, Kiyomi

Friday, March 22, PM

Chair: TSUDA, Akihiko (14 : 30~15 : 30)

- \* 14:20-14:30: interval for laptop PC connection.(1D4-34, 1D4-35, 1D4-36, 1D4-37, 1D4-38, 1D4-39)
- 1D4-34\*** Synthesis of Novel Caged-Glutamates and Their Photochemical Reactivity (Hiroshima Univ.;JST-CREST) BOINAPALLY, Srikanth; ABE, Manabu
- 1D4-35** Photohalogenation of Aromatic Compounds with Hydrogen Halide by the Photoexcited State of 2,3-dichloro-5,6-dicyano-*p*-benzoquinone (Osaka Univ.;ALCA, JST) FUJIMOTO, Atsushi; OHKUBO, Kei; FUKUZUMI, Shunichi
- 1D4-36** Construction of artificial photosynthesis system with simultaneous water oxidation and oxygenation of substrates by Aluminum porphyrins (Grad. Sch. Urban Environmental Sci., Tokyo Metropolitan Univ.) SAGAWA, Shogo; FAZALURAHMAN, Kuttassery; GOMI, Yuki; ONUKI, Satomi; NABETANI, Yu; TACHIBANA, Hiroshi; INOUE, Haruo
- 1D4-37\*** Aerobic Oxidative Coupling Reactions of Tertiary Aliphatic Amines Under Visible-Light Photocatalysis (Graduate School of Science, The Univ. of Tokyo) YOO, Woo-jin; TANOUE, Arata; KOBAYASHI, Shu
- 1D4-38** Synthesis of Coupling Molecules of Triphenylamine with Diquat and their Photo and Electrochemical Characteristics (Dept of Appl. Chem., Waseda Univ.) OKA, Tatsuya; HORIE, Yutarou; NAKAJIMA, Satoshi; OYAZU, Kenichi; NISHIDE, Hiroyuki
- 1D4-39** Oxidative water activation catalyzed by metalloporphyrins (Grad. Sch. Urban Environmental Sci., Tokyo Metropolitan Univ.) FAZALURAHMAN, Kuttassery; SAGAWA, Shogo; GOMI, Yuki; ONUKI, Satomi; NABETANI, Yu; TACHIBANA, Hiroshi; INOUE, Haruo

Chair: MAEDA, Hajime (15 : 40~16 : 40)

- \* 15:30-15:40: interval for laptop PC connection.(1D4-41, 1D4-42, 1D4-43, 1D4-44, 1D4-45, 1D4-46)
- 1D4-41** Paterno-Buechi reaction of Furfuryl alcohol derivatives (Department of Chemistry, Graduate School of Science, Hiroshima Univ.) FUJII, Yoshimi; ABE, Manabu
- 1D4-42** Photo-Induced Chlorination of Salicylaldehydes (Graduate School of Engineering Science, Osaka Univ) HOSHINO, Makoto; ENDO, Osamu; KOMIYA, Naryoshi; NAOTA, Takeshi
- 1D4-43** Addition of carboxylic acids to alkenes via catalytic photochemical decarboxylation (Univ. of Fukui) NISHIKAWA, Keisuke; YOSHIMI, Yasuhiro; MAEDA, Kousuke
- 1D4-44** Study on Synthesis of Photoresponsive Imidazolium Ionic Liquid (Univ. of Tsukuba) ISHIZAKI, Maai; ARAI, Tatsuo
- 1D4-45** Adsorption of Metallo-porphyrin on Semiconductor and Electron Injection (Tokyo Metropolitan University, Urban environmental sciences) ONUKI, Satomi; SAGAWA, Shogo; GOMI, Yuuki; NABETANI, Yu; TACHIBANA, Hiroshi; INOUE, Haruo
- 1D4-46** Preparation and Reactivity of Visible-light Responsive B<sub>12</sub>-TiO<sub>2</sub> Catalyst Composed of Interfacial Complexation (Kyushu Univ.) YONEMURA, Shunsuke; SHIMAKOSHI, Hisashi; ABE, Masaaki; HISAEDA, Yoshio

Chair: SHIMAKOSHI, Hisashi (16 : 50~17 : 30)

- \* 16:40-16:50: interval for laptop PC connection.(1D4-48, 1D4-50, 1D4-51)
- 1D4-48\*** Reaction mechanism of photochemical CO<sub>2</sub> reduction sensitized by rhenium bipyridine complexes: study by means of rapid-scan infrared spectroscopy (Grad. Sch. Urban Environmental Sci., Tokyo Metropolitan Univ.) KOU, Youki; NABETANI, Yu; SHIMADA Tetsuya, Tetsuya; TAKAGI, Shinsuke; TACHIBANA, Hiroshi; INOUE, Haruo
- 1D4-50** Photocatalytic Trifluoromethylation of Aromatic Compounds by Electron-Transfer State of 9-Xylyl-10-Methylacridinium Ion Derivatives (Osaka Univ.; ALCA,JST) MATSUMOTO, Soichiro; OHKUBO, Kei; FUKUZUMI, Shunichi
- 1D4-51** Diastereoselective [2+2] Photocycloaddition in Supercritical Carbon Dioxide (Nara Institute of Science and Technology) NAKATANI, Kazuya; NISHIYAMA, Yasuhiro; KAKIUCHI, Kiyomi

Saturday, March 23, AM

Chair: FUJITSUKA, Mamoru (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2D4-01, 2D4-02, 2D4-04, 2D4-05, 2D4-06)
- 2D4-01** [2+2] Photocycloaddition of PhenanthreneEthylene Dyad in Solution and in the Crystalline State (Grad. Sch. of Eng., Osaka Pref. Univ.; RIMED, Osaka Pref. Univ.) KAWAKAMI, Jun; NAKANISHI, Yosuke; OHTA, Eisuke; MIZUNO, Kazuhiko; IKEDA, Hiroshi
- 2D4-02\*** Enantiodifferentiating Supramolecular Photocyclodimerization of 2-Anthracenecarboxylate Mediated by Molecularly Imprinted Poly(L-lysine)s (Grad. School of Eng. & UIC, Osaka Univ.) TANAKA, Hidekazu; NISHIJIMA, Masaki; MORI, Tadashi; FUKUHARA, Gaku; YANG, Cheng; DZWOLAK, Wojciech; INOUE, Yoshihisa
- 2D4-04** Synthesis and Photochemical reaction of diaza[3.3]paracyclophanes incorporating fluorine atoms on their benzene rings (Okayama Univ.; Kyusyu Univ.) OKAMOTO, Hideki; KOZAI, Tetsuya; OKABAYASHI, Zenji; SHINMYOZU, Teruo; SATAKE, Kyosuke
- 2D4-05** Study on Supramolecular Complexation Behavior and Enantiodifferentiating Photocyclodimerization of 2-Anthracenecarboxylate with L-Prolinol (Graduate School of Osaka University) KAWANAMI, Yuku; KATSUMATA, Shin-ya; NISHIJIMA, Masaki; FUKUHARA, Gaku; YANG, Cheng; MORI, Tadashi; INOUE, Yoshihisa
- 2D4-06** Diastereoselective [2+2] Photocycloaddition of Chiral Cyclic Enones to Olefins in Aqueous solvent (Nara Institute of Science and Technology) SHIBATA, Mikiko; NISHIYAMA, Yasuhiro; KAKIUCHI, Kiyomi

Chair: TAKAGI, Shinsuke (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(2D4-08, 2D4-09, 2D4-10, 2D4-11, 2D4-12, 2D4-13)
- 2D4-08** Regioselectivity in the Patern-Bchi reaction of allylamine with benzophenone (Hiroshima Univ.) KOSAKA, Ami; ABE, Manabu
- 2D4-09** Novel Photoaddition of Acetonitrile to 1,1-Dicyano-4-aryl-1-butenes (Graduate School of Engineering, Osaka Univ.) AOKI, Yoshiaki; ITO, Tadashi; NISHIUCHI, Emi; MORI, Tadashi; FUKUHARA, Gaku; INOUE, Yoshihisa
- 2D4-10** Control of Axial Chirality of Quinolonecarboxamides by Formation of Chiral Salts and Asymmetric Photoreaction Using Chiral Memory (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; TAKAGISHI, Naoya; MINO, Takashi
- 2D4-11** Synthesis of Macrocyclic Polyethers by [2 + 2] Photocycloaddition Reaction of 2-Substituted Chromone Carboxylic Acid Derivatives (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; YOSHIDA, Wataru; KATABIRA, Satoshi; MINO, Takashi
- 2D4-12** Supramolecular Photocyclodimerization of Cinnamic acid Mediated by (S)-Prolinol in Solution (Grad. School of Eng. and UIC, Osaka Univ.) AZUMAI, Hiroki; NISHIJIMA, Masaki; FUKUHARA, Gaku; YANG, Cheng; MORI, Tadashi; INOUE, Yoshihisa
- 2D4-13** [3+2]-Photocycloadditions of 2,3-Dialkyl-1,4-dicyanonaphthalenes and Phenylacetylene (Graduate School of Science and Engineering, Shimane Univ.) YOKOYAMA, Kazutaka; SHIRATORI, Hideo; KUBO, Yasuo

Chair: SHIRATORI, Hideo (11 : 20~12 : 00)

- \* 11:10-11:20: interval for laptop PC connection.(2D4-15, 2D4-16, 2D4-17, 2D4-18)
- 2D4-15** Novel Chiral [4+4]-Cyclodimers Formed upon Photocyclodimerization of 2-Anthracenecarboxylate Mediated by  $\beta$ -Cyclodextrin (Graduate School of Osaka University; College of Chemistry, Sichuan University; UIC of Osaka University) MATSUSHITA, Ryohei; YANG, Cheng; FUKUHARA, Gaku; NISHIJIMA, Masaki; MORI, Tadashi; INOUE, Yoshihisa
- 2D4-16** Enantiodifferentiating Supramolecular Photocyclodimerization of 2-Anthracenecarboxylate Mediated by  $\beta$ -Cyclodextrin Dimers (Graduate School of Osaka University; College of Chemistry, Sichuan University; UIC of Osaka University) YAMAUCHI, Masahito; MASTUSHITA, Ryohei; YANG, Cheng; FUKUHARA, Gaku; NISHIJIMA, Masaki; MORI, Tadashi; INOUE, Yoshihisa
- 2D4-17** Study of Photoinduced Intermolecular Proton Transfer of Anthracene Derivative Having Two Urea Groups (Univ. of Tsukuba) MATSUMOTO, Hisato; NISHIMURA, Yoshinobu; ARAI, Tatsuo
- 2D4-18** Radical ring expansion of cyclic keto ester having carboxylic group via

photochemical decarboxylation (Univ. of Fukui) ANDO, Tomoki; YOSHIMI, Yasuharu; NISHIKAWA, Keisuke; MAEDA, Kousuke

### Saturday, March 23, PM

Chair: OHKUBO, Kei (13 : 10~14 : 10)

- \* 13:00-13:10: interval for laptop PC connection.(2D4-26, 2D4-27, 2D4-29, 2D4-30, 2D4-31)
- 2D4-26** Enantiodifferentiating Photocyclodimerization of 2,6-Anthracenedicarboxylate Mediated by Human Serum Albumin. (Grad. School of Eng. & UIC, Osaka Univ.) TANAKA, Koichiro; NISHIJIMA, Masaki; MORI, Tadashi; YANG, Cheng; FUKUHARA, Gaku; INOUE, Yoshihisa
- 2D4-27\*** Enantiodifferentiating Supramolecular Asymmetric [2+2] Photocycloaddition Using Menthyl Amine Derivatives as a Chiral Template (Grad. Sch. Mat. Sci., NAIST) YANAGISAWA, Yuuki; NISHIYAMA, Yasuhiro; KAKIUCHI, Kiyomi
- 2D4-29** Photoreaction of 2,6-Diazoniaanthracene with Anthracene Derivatives (Graduate School of Engineering, Osaka Univ.) TANAKA, Hiroki; MORI, Tadashi; FUKUHARA, Gaku; INOUE, Yoshihisa
- 2D4-30** Synthesis of Pyrenocycloalkenes Using [2+2]Photocycloaddition to Pyrene and Diels-Alder Reaction (Graduate School of Natural Science and Technology, Kanazawa University) MAEDA, Masashi; MAEDA, Hajime; SEGI, Masahito
- 2D4-31** Meta-photocycloadditions of Aromatic Lactones Having Naphthalene Skeleton with Alkenes (Graduate School of Science and Engineering, Shimane Univ.) USUDA, Ryuusuke; SHIRATORI, Hideo; KUBO, Yasuo

Chair: MORI, Tadashi (14 : 20~15 : 20)

- \* 14:10-14:20: interval for laptop PC connection.(2D4-33, 2D4-34, 2D4-35, 2D4-36, 2D4-37, 2D4-38)
- 2D4-33** Photochemical Behavior of 4,4'-Bis(styryl)biphenyl Derivatives (Univ. of Tsukuba) SAKURAI, Hiroya; ARAI, Tatsuo
- 2D4-34** Emission Properties of Heteroatom-substituted Diaroylmethanato-boron Difluoride (Grad. Sch. of Eng., Osaka Pref. Univ.; RIMED, Osaka Pref. Univ.) SAKAI, Atsushi; TANAKA, Mirai; OHTA, Eisuke; YOSHIMOTO, Yuichi; MIZUNO, Kazuhiko; IKEDA, Hiroshi
- 2D4-35** Study on the Aequorea bioluminescence mechanism: Luminescent properties of  $\pi$ -conjugation-extended analogs of the light-emitter (Univ. of Electro-Communications) HAYASHI, Chihiro; MAKI, Shojiro; NIWA, Haruki; HIRANO, Takashi
- 2D4-36** Studies on the color modulation mechanism of firefly bioluminescence with aminoluciferin analogs (UEC Tokyo) MATSUHASHI, Takuto; Viviani R., Vadim; MAKI, Shojiro; NIWA, Haruki; HIRANO, Takashi
- 2D4-37** Emission Analysis by Double Laser Flash Photolysis and Application to OLED of the Trimethylenemethane Biradical (Grad. Sch. of Eng., Osaka Pref. Univ.; RIMED, Osaka Pref. Univ.) TAKAE, Kosuke; FURUTA, Suguru; MATSUI, Yasunori; OHTA, Eisuke; MIZUNO, Kazuhiko; NAITO, Hiroyoshi; IKEDA, Hiroshi
- 2D4-38** Photochemistry of poly(benzyl ether) substituted stilbene dendrimers with ester group at meta position of terminated benzene rings (Univ. of Tsukuba) KEINO, Taichi; ARAI, Tatsuo

Chair: OKAMOTO, Hideki (15 : 30~16 : 30)

- \* 15:20-15:30: interval for laptop PC connection.(2D4-40, 2D4-41, 2D4-42, 2D4-43, 2D4-44, 2D4-45)
- 2D4-40** Photoreaction of 2-Naphthaleneboronate Ester Derivatives in the Presence of Aliphatic Amines (Faculty of Science and Engineering, Shimane Univ.) FUJIWARA, Ryoji; SHIRATORI, Hideo; KUBO, Yasuo
- 2D4-41** Photochemical properties of 2'-hydroxychalcone derivatives with pyridyl or quinolyl group (Univ. of Tsukuba) AIZAWA, Fumiya; ARAI, Tatsuo
- 2D4-42** Photoinduced Hydrogen Evolution Using Pyrene Derivatives by Laser Irradiation (Osaka Univ.; ALCA/JST) KOHNO, Naoki; OHKUBO, Kei; FUKUZUMI, Shunichi
- 2D4-43** Synthesis and Substituent Effect on Photochemical Behavior of Olefinic Compounds Having Pyridine and Pyrrole Rings (Univ. of Tsukuba) KURIHARA, Seiya; ARAI, Tatsuo
- 2D4-44** Promoting Effect of DMF on Photo-allylation Reaction of Dicyanoarenes with Hypervalent Alkylsilicon Reagents (Shimane Univ.) MATSUOKA, Daisuke; NISHIGAICHI, Yutaka
- 2D4-45** Study on photoisomerization and fluorescence properties of stilbene derivatives having aromatic substituents at para position of benzene rings (Univ. of Tsukuba) KASHIURA, Mutsuki; ARAI, Tatsuo

## Biofunctional Chemistry ; Biotechnology

### Sunday, March 24, AM

Chair: MATSUDA, Tomoko (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3D4-01, 3D4-02, 3D4-03, 3D4-04, 3D4-05, 3D4-06)
- 3D4-01** Immobilization of Enzyme using CaCO<sub>3</sub> microcapsule (Meisei University; AIST-Kansai) YOTSUYA, Koji; MATSUMOTO, Kazutsugu; SHIOKAWA, Kumi; FUJIWARA, Masahiro
- 3D4-02** Enzymatic Molecular Recognition for 1,2-Diol Monotosylate Deriva-

tives (Meisei University; University of Hyogo) MATSUMOTO, Kazutsugu; HASHIMOTO, Manabu; AKIYA, Shozo; KATO, Dai-ichiro; NEGORO, Seiji

- 3D4-03** Control of stereochemistry by deletion and overexpression of the genes related ketone reduction in photosynthetic bacterium *Synechocystis* sp. PCC6803 (Fac. Sci., Tokyo Univ. of Sci.) TAGUCHI, Toshihiro; UMEMO, Nobuaki; OHTA, Hisataka; TAKEMURA, Tetsuo; NAKAMURA, Kaoru
- 3D4-04** Optical resolution of 2,6-dicarboxytripterycene esters by enzymatic hydrolysis (Tokyo Univ. of Sci.) MIYAMA, Yukari; TAKEMURA, Tetsuo; YAMAMOTO, Gaku; MAZAKI, Yasuhiro
- 3D4-05** Elucidation of the 2,6-triptycene derivative conversion process by the isolated soil bacterium, *Pseudomonas nitroreducens* (Fac. Sci., Tokyo Univ. of Sci.) SATOH, Go; NISHIMURA, Shinnosuke; KITAOKA, Tsukasa; MAZAKI, Yasuhiro; TAKEMURA, Tetsuo
- 3D4-06** Asymmetric Reduction of Ketones using Submerged Aquatic Plants as a Biocatalyst (School of Science, Osaka Prefecture University) UJIGAWA, Kazuma; ONO, Megumi; KOJIMA, Hideo

Chair: KOJIMA, Hideo (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3D4-08, 3D4-09, 3D4-10, 3D4-11, 3D4-12, 3D4-13)
- 3D4-08** Asymmetric Synthesis of Optically active Zingerols by Lipase-Catalyzed Transesterification and Efficient Synthesis of their Analogue (Dept. Adv. Biosci., Grad. Sch. Agric., Kinki Univ.) ISOMORI, Sachiko; NAKAMURA, Kaoru; KITAYAMA, Takashi
- 3D4-09** Stereoselectivity of 2-methylcycloalkanol by lipase-catalyzed transesterification (Dept. Adv. Biosci., Grad. Sch. Agric., Kinki Univ.) HIRAIWA, Kazusa; YAMAMOTO, Chieko; SAITO, Ayumi; OTA, Sayo; KITAYAMA, Takashi
- 3D4-10** Dynamic Kinetic Resolution of secondary alcohols using Lipase in the presence of a solid acid catalyst (Tottori University) HARAMI, Hiroyuki; SHIMOMURA, Ken-ichi; HAYASE, Shuichi; NOKAMI, Toshiki; KATADA, Naonobu; ITOH, Toshiyuki
- 3D4-11** Lipase mediated DKR reaction of secondary alcohols under reduced pressure in an ionic liquid solvent system (Tottori University) TAKATA, Yuki; HARAMI, Hiroyuki; HAYASE, Shuichi; NOKAMI, Toshiki; KATADA, Naonobu; ITOH, Toshiyuki
- 3D4-12** Selectivity for 2-alcohol enantiomer from *n*-alkane by soluble methane monooxygenase (Tokyo Institute of Technology) MIYAJI, Akimitsu; NAITO, Kaoru; NAKAGAWA, Souya; MOTOKURA, Ken; BABA, Toshihide
- 3D4-13** Development of novel Baeyer-Villiger oxidation by *Fusarium* sp. (Dept. of Bioeng., Tokyo Institute of Technol.) KAWAGUCHI, Nozomi; FUKUI, Shusuke; TANABE, Tomofumi; MASUDA, Ayaka; KITAYAMA, Takashi; KATO, Dai-ichiro; FUJII, Mikio; MATSUDA, Tomoko

Chair: MIYAMOTO, Kenji (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(3D4-15, 3D4-16, 3D4-17, 3D4-18, 3D4-19, 3D4-20)
- 3D4-15** Propylene oxidation by the combination of methane monooxygenase and photoreduction of NAD(P)<sup>+</sup> by chloroplast (Department Bioengineering, Tokyo Institute of Technology) MORI, Fumiya; ITO, Hidehiro; OKURA, Ichiro; KAMACHI, Toshiaki
- 3D4-16** Hydroxylation and glycosylation of monoterpene using plant cultured cells. (Graduate School of Sci., Okayama Univ. of Sci.) SUWADA, Ken; OZAKI, Shinichi; SIMODA, Kei; HAMADA, Hiroki
- 3D4-17** Functional activity of trans-Resveratrol (Graduate School of Sci., Okayama Univ. of Sci.) UESUGI, Disuke; OZAKI, Shinichi; SIMODA, Kei; HORIO, Yoshiyuki; HAMADA, Hiroki
- 3D4-18** Heterologous Expression of the Gene Encoding Aconitate Isomerase from *Pseudomonas* sp. WU-0701 in *Escherichia coli* (Dept. Appl. Chem., Fac. Sci. Eng., Waseda Univ.) YUHARA, Kahori; HAMACHI, Tatsuya; KOBAYASHI, Keiichi; HONDA, Yuki; KIRIMURA, Kohtarō
- 3D4-19** High-yield Production of *p*-Aminosalicylic Acid by Reversible Salicylic Acid Decarboxylase Obtained through Site-directed Mutagenesis (Dept. Appl. Chem., Fac. Sci. Eng., Waseda Univ.) IENAGA, Saori; ITO, Yuto; KOBAYASHI, Keiichi; HONDA, Yuki; KIRIMURA, Kohtarō
- 3D4-20** Chemo-enzymatic Synthesis of Efficient Derivatives Using Rare Sugars (Kagawa Univ.) MAEDA, Keiko; KAGAWA, Saneyoshi; TAKAGI, Yumiko

### Sunday, March 24, PM

Chair: KIRIMURA, Kohtarō (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(3D4-28, 3D4-30, 3D4-31, 3D4-32, 3D4-33)
- 3D4-28\*** Electrochemical Gating of TCA Cycle Activity in Current Generating Bacteria, *Shewanella* by Focusing on the Extracellular Electron Transfer (Univ. of Tokyo, RCAST, ERATO/JST) MATSUDA, Shoichi; LIU, Huan; NAKANISHI, Shuji; HASHIMOTO, Kazuhito
- 3D4-30** Next-generation sequencing based metagenomic analysis of microbial community in organic hydroponics (Dept. Biosci. Inform., Keio Univ; Div. Appl. Life Sci., Grad. Sch. Agric., Kyoto Univ; Dep. Biotech., Toyama Pref. Univ.; NIVTS., NARO) YOSHIDA, Shosuke; ONO, Mizuki;

SHINOHARA, Wataru; SAKAKIBARA, Yasubumi; OGAWA, Jun; ANDO, Aninori; KATO, Yasuo; SHINOHARA, Makoto; MIYAMOTO, Kenji

**3D4-31** Control of Cellular Functions by Preparation of Layer-by-Layer Nanofilms (Grad. of Eng., Osaka Univ.) MATSUSAKI, Michiya; YOSHIKAI, Takashi; MATSUZAWA, Atsushi; AKASHI, Mitsuru

**3D4-32** Light-Responsive Avidin-Biotin Hydrogel for Cell Manipulation (Faculty of Engineering, The University of Tokyo) OHASHI, Noriyuki; YAMAGUCHI, Satoshi; YAMAHIRA, Shinya; MINAMIHATA, Kousuke; NAGAMUNE, Teruyuki

**3D4-33** Photo-labile Nano-sized Shells for Cell Manipulation (Faculty of Engineering, Univ. of Tokyo) CHUJO, Kazuki; YAMAGUCHI, Satoshi; YAMAHIRA, Shinya; NAGAMUNE, Teruyuki

Chair: KUBO, Izumi (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(3D4-35, 3D4-37, 3D4-38, 3D4-39, 3D4-40)

**3D4-35\*** Force spectroscopy of controlled cell adhesion for cell separation (Biomedical Research Institute, AIST, Dept. Biotechnol. Life Sci., TUAT, Dept. Mat. Eng., UT) KAWAMURA, Ryuzo; MISHIMA, Mari; SILBERBERG, Yaron; FUKAZAWA, Kyoko; ISHIHARA, Kazuhiko; NAKAMURA, Chikashi

**3D4-37** The risk assessment of cell nucleus insertion of nanoneedle by gamma-H2AX expression analysis (Dept. Biotechnol. Life Sci., TUAT, Biomedical Research Institute, AIST, Dept. Mat. Eng., UT) NAKA, Ryohei; RYU, Seunghwan; KAWAMURA, Ryuzo; NAKAMURA, Chikashi

**3D4-38** Preparation of single cell array using micro pillar by contact printing (Dept. Biotechnol. Life Sci., TUAT, Biomedical Research Institute, AIST, Dept. Mat. Eng., UT) MIYAZAKI, Minami; KAWAMURA, Ryuzo; SATHULURI, Ramachandra Rao; KOBAYASHI, Takeshi; ISHIHARA, Kazuhiko; FUKAZAWA, Kyoko; IWATA, Futoshi; NAKAMURA, Chikashi

**3D4-39** The preparation of the human antibody light chain library and the study on cancer cell cytotoxicity (Department of Applied Chemistry, Faculty of Engineering, Univ. of Oita; Research Promotion Institute, Univ. of Oita) WATANABE, Manami; HIHUMI, Emi; UDA, Taizo; MORIYAMA, Kazuki; SONODA, Sari; IIKURA, Ryo

**3D4-40** Cytotoxicity of human antigenase against cancer cells (Univ. of Oita, Research Promotion Institute, Univ. of Oita.) KUSUNOKI, Tomoya; SONODA, Sari; ONO, Masayuki; HIFUMI, Emi; UDA, Taizou

Chair: TSUGAWA, Wakako (15 : 50~16 : 50)

\* 15:40-15:50: interval for laptop PC connection.(3D4-42, 3D4-43, 3D4-44, 3D4-46, 3D4-47)

**3D4-42** Structural Optimization of Fluorescence Labeling Probes for Intracellular Proteins (Graduate school of engineering, Osaka Univ.) YAMAGATA, Yusuke; MIZUKAMI, Shin; YOSHIMURA, Akimasa; KIKUCHI, Kazuya

**3D4-43** Development of method for controlling protein labeling reaction by light (Graduate school of engineering, Osaka Univ.) YOSHIMURA, Akimasa; MIZUKAMI, Shin; KIKUCHI, Kazuya

**3D4-44\*** Detection of expressed genes in single jurkat cells using microfluidic disk (Soka Univ.) SHOZEN, Naoki; FURUTANI, Shunsuke; AOYAMA, Yuri; KUBO, Izumi

**3D4-46** Selective Detection of Salmonella enterica by PCR on micro fluidic disk for single cell isolation (Soka Univ.) KAJIYA, Mitsutoshi; FURUTANI, Shunsuke; SHOZEN, Naoki; NAGAI, Hidenori; KUBO, Izumi

**3D4-47** Entrapment and staining of Escherichia coli in microchamber by exchanging solution (Soka Univ.) HASHIMOTO, Hiromi; FURUTANI, Shunsuke; FUJIWARA, Yuko; KUBO, Izumi

Chair: HIFUMI, Emi (17 : 00~17 : 40)

\* 16:50-17:00: interval for laptop PC connection.(3D4-49, 3D4-50, 3D4-51, 3D4-52)

**3D4-49** Characterization of blue-light sensing chimeric protein with LOV domain from a marin cyanobacterium *Synechococcus* sp. (Tokyo Univ. of Agric. and Technol.) NAKAJIMA, Mitsuharu; OKANO, Hiroto; ABE, Koichi; FERRI, Stefano; KOJIMA, Katsuhiko; SODE, Koji

**3D4-50** Light regulated expression of autotransporter in *Synechocystis* sp. PCC 6803 (Tokyo Univ. of Agric. and Technol.) FERRI, Stefano; NAKAMURA, Mayumi; MIYAKE, Kotone; KOJIMA, Katsuhiko; NAKAJIMA, Mitsuharu; ABE, Koichi; SODE, Koji

**3D4-51** The construction of synthetic cyanobacterial host with green light inducible auto lysis (Tokyo Univ. of Agric. and Technol.) MIYAKE, Kotone; ABE, Koichi; FERRI, Stefano; KOJIMA, Katsuhiko; NAKAJIMA, Mitsuharu; SODE, Koji

**3D4-52** Gold Nanoparticles as a Vaccine Platform: The Shape-Dependency of Immunological Responses *In Vitro* and *In Vivo* (Grad. School of Chemical Sciences and Engineering, Hokkaido Univ.) MATSUNAGA, Tatsuya; NIKURA, Kenichi; SUZUKI, Tadaki; KOBAYASHI, Shintaro; YAMAGUCHI, Hiroki; OHBA, Yasuko; KAJINO, Kiichi; NINOMIYA, Takafumi; SAWA, Hirofumi; IJIO, Kuniharu

## Monday, March 25, AM

Chair: HARA, Masayuki (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(4D4-01, 4D4-02, 4D4-03, 4D4-04, 4D4-05, 4D4-06)

**4D4-01** Evaluation and development as a biosensor-chip of LSPR micro-flow-chip via nanoimprint technology (Grad. Sch. Eng., Osaka Univ.) JIANG, Shu; SAITOH, Masato; MURAHASHI, Mizuh; TAMIYA, Eiichi

**4D4-02** Single beam biosensing by using laser polymerization and enzyme reactions (Dept. Appl. Phys., Osaka Univ.) YOSHIKAWA, Hiroyuki; IMURA, Shuhei; TAMIYA, Eiichi

**4D4-03** Construction of multi-enzyme electrode composed of FAD-dependent and NAD-dependent enzymes and single electron mediator. (Tokyo University of Agriculture and Technology) SAKUTA, Riku; TAKEDA, Kouta; IGARASHI, Kiyohiko; SAMEJIMA, Masahiro; NAKAMURA, Nobuhumi; OHNO, Hiroyuki

**4D4-04** Biomarker sensing using antibody-embedded titanium oxide thin films (Graduate School of Engineering, Kobe University) MURATA, Akiko; OOYA, Tooru; TAKEUCHI, Toshifumi

**4D4-05** Estimation of the boron-containing rare earth oxides as new medicine for boron neutron capture therapy (Grad. Sch. of Eng., Osaka City Univ.) YUKAWA, Hiroko; KAWASAKI, Riku; SAKURAMOTO, Masashi; KATAGIRI, Kiyofumi; TOMITA, Koji; MASUNAGA, Shin-ichiro; ONO, Koji; SAKURAI, Yoshinori; KIRIHATA, Mitsunori; AZUMA, Hideki; NAGASAKI, Takeshi

**4D4-06** Cross-linked  $\epsilon$ -poly-polysine bearing BSH as a polymeric drug for boron neutron capture therapy (Grad. Sch. of Eng., Osaka City Univ.) SAKURAMOTO, Masashi; KAWASAKI, Riku; YUKAWA, Hiroko; MASUNAGA, Shin-ichiro; ONO, Koji; SAKURAI, Yoshinori; KIRIHATA, Mitsunori; AZUMA, Hideki; NAGASAKI, Takeshi

Chair: TAKEUCHI, Toshifumi (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(4D4-08, 4D4-10, 4D4-11, 4D4-12)

**4D4-08\*** Screening and Mechanism Analysis of Radioprotectors That Target p53 (Tokyo Univ. Sci. ; Hiroshima Univ.) ARIYASU, Shinya; MORITA, Akinori; TAKAHASHI, Ippei; SAWA, Akiko; KUZUOKA, Tomoyo; UCHIDA, Takatoshi; OHYA, Soichiro; HOSOI, Yoshio; AOKI, Shin

**4D4-10** Studies on the degradation of sodium alginate by gamma-irradiation using viscometry. (Grad. Sch. Sci., Osaka Prefecture Univ.) YAMAMOTO, Takaya; MORI, Hideki; HARA, Masayuki

**4D4-11** Proliferation of neural stem/progenitor cells of  $\gamma$ -radiation-cross-linked polyvinyl alcohol gels (Osaka Prefecture Univ. Grad. Sch. Sci.) MORI, Hideki; KAWASE, Fumie; HARA, Masayuki

**4D4-12\*** Studies on the collagen gel cross-linked by various methods. (Osaka Prefecture Univ.; Grad. Sch. Sci.) MORI, Hideki; HARA, Masayuki

Chair: TAKEDA, Naoya (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(4D4-15, 4D4-17, 4D4-18, 4D4-19, 4D4-20)

**4D4-15\*** The synthesis of anticancer taxol with no side effect (Graduate School of Sci., Okayama Univ. of Sci.) HAMADA, Hiroki; SENO, Masaharu

**4D4-17** The combinational effect of aminolevulinic acid and anticancer drug on cancer cells (Tokyo Tech) ITO, Kensuke; HAGIYA, Yu-ichiro; TANAKA, Tohru; OKURA, Ichiro; OGURA, Shun-ichiro

**4D4-18** Development of a cell chip system for detection of circulating tumor cells (Health Research Institute, AIST) YAMAMURA, Shohei; YATSUSHIRO, Shouki; ABE, Kaori; MAY, Mawthet; BABA, Yoshinobu; KATAOKA, Masatoshi

**4D4-19** Photodynamic activities of human serum albumin-Zn(II)porphyrin complexes and their action mechanism (Faculty of Sci. and Eng., Chuo Univ.) AKIYAMA, Motofusa; SUGIURA, Yu; KOMATSU, Teruyuki

**4D4-20** Synthesis and evaluation of fullerene derivatives in vitro (Univ. of Kanagawa Inst of Technol) HASHIMOTO, Akiko; TAKAMURA, Takeji

## Monday, March 25, PM

Chair: NAKATA, Eiji (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(4D4-28, 4D4-29, 4D4-30, 4D4-31, 4D4-33)

**4D4-28** Improvement of Photodynamic Activity by Using Fullerene Derivative- $\gamma$ -Cyclodextrin Complexes (Graduate School of Materials Science, Nara Institute of Science and Technology) IIZUKA, Tatsuya; IKEDA, Atsushi; AKIYAMA, Motofusa; KIKUCHI, Jun-ichi; KONISHI, Toshifumi; ISHIDA-KITAGAWA, Norihiro; TATEBE, Hisashi; SHIOZAKI, Kazuhiro

**4D4-29** Water-solubilization and Photodynamic Activity of Fullerene Derivatives by Using Aqua  $\beta$  (Graduate School of Materials Science, Nara Institute of Science and Technology) IKEDA, Atsushi; IIZUKA, Tatsuya; AKIYAMA, Motofusa; KIKUCHI, Jun-ichi.; OGAWA, Takuya; ISHIDA-KITAGAWA, Norihiro; TATEBE, Hisashi; SHIOZAKI, Kazuhiro; SUZUKI, Toshio; NAGASAKI, Takeshi

**4D4-30** Development of the liposome contained glyco-lipid as a drug carrier (Graduate School of Materials Science, Nara Institute of Science and Technology) KOMEDA, Chikako; IKEDA, Atsushi; AKIYAMA, Motofusa;

KIKUCHI, Jun-ichi.; ISHIDA - KITAGAWA, Norihiro; TATEBE, Hisashi; SHIOZAKI, Kazuhiro

**4D4-31** Selective caveolae-mediated endocytosis of GM3-binding peptide-modified liposomes (Keio Univ.) KIMURA, Takato; KIM, Jeeyoung; MATSUBARA, Teruhiko; SATO, Toshinori

**4D4-33** Cytotoxicity of human antibody light chains for A549(Lung Carcinoma cells). (Department of Applied Chemistry, Faculty of Engineering, Univ. of Oita. Research Promotion Institute, Univ. of Oita.) SONODA, Sari; HIFUMI, Emi; UDA, Taizo

Chair: IKEDA, Atsushi (14 : 40~15 : 30)

\* 14:30-14:40: interval for laptop PC connection.(4D4-35, 4D4-37, 4D4-38)

**4D4-35\*** Physiological functions of Antigenases and the generation mechanism (Oita University;Research Promotion Institute / Oita University;Faculty of Engineering) HIFUMI, Emi; FUJIMOTO, Naoko; UDA, Taizo

**4D4-37** The effect of aminolevulinic acid on the circadian rhythms (Tokyo Tech) HIRANO, Tomohisa; YAMASITA, Kohei; HAGIYA, Yu-ichiro; TANAKA, Tohru; OKURA, Ichiro; OGURA, Shun-ichiro

**4D4-38\*** Novel String-Like Scaffold of Type I Collagen Simultaneously Crosslinked with Glutaraldehyde in Electrospinning Process and Fabrication of Oriented 3D Myotube Tissue (Dept. of Life Sci. and Med. Biosci., Grad. School of Adv. Sci. and Eng., Waseda Univ.) TAKEDA, Naoya; TAMURA, Kenichi; MINEGUCHI, Ryo; HARAGUCHI, Yuji; SHIMIZU, Tatsuya; OKANO, Teruo; HARA, Yusuke

## Room D5 FOREST HOUSE F112

### Biofunctional Chemistry ; Biotechnology

Friday, March 22, AM

Chair: CHUMAN, Yoshiro (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(1D5-01, 1D5-02, 1D5-03, 1D5-04, 1D5-05, 1D5-06)

**1D5-01** ZnO particles aligned along a peptide nanofiber (Department of Materials Chemistry, Ryukoku University) TOMIZAKI, Kin-ya; KUBO, Seiya; AHN, Soo-ang; IMAI, Takahito

**1D5-02** Peptide-Templated Synthesis of Silica Nanofibers Containing Iron Compounds (Ryukoku University) AHN, Soo-ang; IMAI, Takahito; TOMIZAKI, Kin-ya

**1D5-03** Peptide nanofibers covered with TiO<sub>2</sub> applicable to graphene synthesis (Department of Materials Chemistry, Ryukoku University) UNO, Kousei; AHN, Soo-ang; IMAI, Takahito; TOMIZAKI, Kin-ya

**1D5-04** Site-Specific Silica Precipitation on DNA Using a PNA-Peptide Conjugate (FIRST, Konan Univ.; FIBER, Konan Univ.;Department of Materials Chemistry, Ryukoku Univ.) NISHIYAMA, Hiroto; NAGAI, Kazuma; TSURUOKA, Takaaki; FUJII, Satoshi; TOMIZAKI, Kin-ya; USUI, Kenji

**1D5-05** Designed peptides for control of DNA G-quadruplex formation depending on calpain activity (FIRST, Konan Univ.; FIBER, Konan Univ.) OKADA, Arisa; USUI, Kenji; SUGIMOTO, Naoki

**1D5-06** Apatite Deposition on Substrate Surfaces that utilizes Peptides under Body Fluid Conditions (Tokyo Univ. of Sci.; Keio Univ.) YAMAGUCHI, Yudai; KAMAYA, Noriaki; KOYAMA, Yuki; MATSUBARA, Teruhiko; SATO, Toshinori; HASHIZUME, Mineo

Chair: USUI, Kenji (10 : 10~10 : 10)

\* 10:00-10:10: interval for laptop PC connection.(1D5-08, 1D5-09, 1D5-10)

**1D5-08** Self-assembly of surfactant-like peptides and their use for gold nanocrystals synthesis. (Department of Materials Chemistry, Ryukoku University) KOBAYASHI, Akitsugu; IMAI, Takahito; TOMIZAKI, Kin-ya

**1D5-09** Formation of silver nanocrystals by spatial arrangement of biomimetalization peptide via p53 tetramerization domain (Hokkaido University; Dept. of Chem.) SAKAGUCHI, Tatsuya; JANAIRO, Jose Isagani; CHUMAN, Yoshiro; HARA, Kenji; FUKUOKA, Atsushi; SAKAGUCHI, Kazuyasu

**1D5-10\*** Enhanced Structural Control of Palladium Nanoparticle Aided by the p53 Tetramerization Domain-Conjugated Biomimetalization Peptide (Hokkaido University; Dept. of Chem.) JANAIRO, Jose Isagani; SAKAGUCHI, Tatsuya; CHUMAN, Yoshiro; HARA, Kenji; FUKUOKA, Atsushi; SAKAGUCHI, Kazuyasu

Chair: TOMIZAKI, Kin-Ya (11 : 00~11 : 10)

\* 10:50-11:00: interval for laptop PC connection.(1D5-13, 1D5-14, 1D5-15, 1D5-16)

**1D5-13** Optimization of a substrate peptide with highest reactivity for the NEXT-A reaction (The Univ. of Electro-Communications) KAWAGUCHI, Jun; TAKI, Masumi

**1D5-14** Chemical synthesis of histone through the combination of solid phase peptide synthesis and sequential ligation (Univ. of Tokyo; RCAST) SUEOKA, Takuma; HAYASHI, Gosuke; OKAMOTO, Akimitsu

**1D5-15** An attempt to design bilayer transmembrane segments (Graduate School of Life Science and Systems Engineering, Kyushu Institute of Technology) YAMAMOTO, Hironori; NISHINO, Norikazu; KATO, Tamaki

**1D5-16\*** Temperature Dependency of Elastin Model Peptide-Attached Dendrimer (Osaka Prefecture University) KOJIMA, Chie; IRIE, Kotaro

Friday, March 22, PM

Chair: TSUMURAYA, Takeshi (13 : 00~14 : 10)

\* 12:50-13:00: interval for laptop PC connection.(1D5-25, 1D5-26, 1D5-27, 1D5-28, 1D5-29, 1D5-31)

**1D5-25** Stereochemical effect in inactivation and reactivation of chymotrypsin by diphenylphosphonate derivatives (Grad. Sch. of Sci. and Eng., Univ. of Toyama) NAKAI, Takahiko; SAWAI, Yuusuke; INOUE, Daisuke; KURODA, Hirofumi; OYAMA, Hiroshi; HORINO, Yoshikazu; UMEZAKI, Masahito; ONO, Shin

**1D5-26** Construction and Spectroscopic Investigation of a Metal Complex at the Active Site of Subtilisin (Nara Institute of Science and Technology) GONDA, Katsuya; MATSUO, Takashi; HIROTA, Shun

**1D5-27** Analysis of enzymes reacting with glycated amino acids isolated from *Clostridium* species (Tokyo Univ. of Agric. and Technol.) KAMIO, Eri; TSUGAWA, Wakako; SODE, Koji

**1D5-28** Kinetic analysis and DNA characterization of enzyme reactions by using a DNA-immobilized RfS-QCM (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) UEMURA, Kensuke; KAWASAKI, Takayoshi; OKAHATA, Yoshio

**1D5-29\*** 3D profilometric measurements of cellulase reaction kinetics on nanofibrous matrix (JAMSTEC) TSUDOME, Mikiko; DEGUCHI, Shigeru

**1D5-31** Self-hydroxylation around Metal Binding Site of Cupin Protein (Graduate School of Engineering, Osaka University) NOBUSHIGE, Kazunori; ISHIHAMA, Ken-ichi; FUJIEDA, Noubutaka; ITOH, Shinobu

Saturday, March 23, AM

Chair: MURAOKA, Takahiro (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(2D5-01, 2D5-03, 2D5-04, 2D5-05)

**2D5-01\*** AM contact mechanism and elucidation of the system (Graduate school of Pharmaceutical Sciences, Kyushu University) TAKASHIMA, Ippei; KINOSHITA, Miyuki; NAKAGAWA, Ayaka; SUGIMOTO, Manabu; HAMACHI, Itaru; OJIDA, Akio

**2D5-03** Molecular designing of fluorescent probes for expanding AM contact mechanism (Graduate school of Pharmaceutical Sciences, Kyushu University) KINOSHITA, Miyuki; TAKASHIMA, Ippei; OJIDA, Akio

**2D5-04** Fluorescence imaging of Hydrogen Sulfide in cell utilizing fluorescently ratiometric change caused by AM contact mechanism (Graduate school of Pharmaceutical Sciences, Kyushu University) TAKASHIMA, Ippei; KAWAGOE, Ryosuke; HAMACHI, Itaru; OJIDA, Akio

**2D5-05\*** The evaluation of intracellular dynamics of the self-assembled fluorescent nano probe (IAE, Kyoto Univ.) NAKATA, Eiji; MORII, Takashi

Chair: NAKATA, Eiji (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(2D5-08, 2D5-09, 2D5-10, 2D5-11, 2D5-12)

**2D5-08** Synthesis and properties of DNA localized fluorescence probe for detecting of hydrogen peroxide (Faculty of Science, Fukuoka University) AGEMURA, Yu; NAKAGAWA, Hiroyuki; OKUMA, Kentaro; NAGAHORA, Noriyoshi; SHIOJI, Kosei

**2D5-09** Multicolor Imaging of Living Cells Using Organelle-Targeted Fluorescent Probes for Zinc Ion (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) OSHIDA, Yoshimasa; TAKI, Masayasu; YAMAMOTO, Yukio

**2D5-10** Hypoxia imaging using iridium complexes bearing dipyrinato ligand (Department of Chemistry and Chemical Biology, Gunma University) YOSHIHARA, Toshitada; YAGIHASHI, Miki; HOSAKA, Masahiro; TAKEUCHI, Toshiyuki; TOBITA, Seiji

**2D5-11** Glycopeptides for Controlling Glyco-Clustering and their Affinity Evaluation to Lectin (Tokyo Univ. of Technol.) ISOBE, Chika; OKADA, Tomoko; MINOURA, Norihiko

**2D5-12\*** Protein Manipulation by Discrete Non-Linear PEGs (IMRAM, Tohoku Univ.) MURAOKA, Takahiro; ADACHI, Kota; UI, Mihoko; KAWASAKI, Shunichi; TOCHIO, Hidehito; SHIRAKAWA, Masahiro; KINBARA, Kazushi

Chair: MORI-I, Takashi (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(2D5-15, 2D5-16, 2D5-17, 2D5-19, 2D5-20)

**2D5-15** Screening and characterization of peptides recognizing naphthalene (Tokyo Institute of Technology; Tokyo University of Science) SAWADA, Toshiki; OKEYA, Yuta; HASHIZUME, Mineo; SERIZAWA, Takeshi

**2D5-16** Inhibition of quorum sensing by n-alkylamine modified cyclodextrin (Faculty of Engineering Utsunomiya University) SAITO, Yuki; MOROHOSHI, Tomohiro; KATO, Norihiro; IKEDA, Tsukasa; OBA,

Toru; ITO, Satoshi

- 2D5-17\*** Anti-Inflammatory Effect of 1'-Acetoxychavicol Acetate/ $\beta$ -1,3-Glucan on Contact Dermatitis (Grad. Sch. of Eng., Osaka City Univ) LI, Jiawei; KAGOSHIMA, Yuta; SUZUKI, Toshio; AZUMA, Hideki; NAGASAKI, Takeshi
- 2D5-19** Development of fluorescent probe for chloride anion in cell (Grad. Sch. Pharm. Sci., Kyushu Univ.; Doshisha Univ.) KUMADE, Ayane; OSHIKAWA, Yuji; EGASHIRA, Yoshihiro; TAKAMORI, Shigeo; OJIDA, Akio
- 2D5-20** The synthesis of a new intercalator to use in induced FRET (Konan University) KAWAMURA, Koji; MURASHIMA, Takashi

### Saturday, March 23, PM

Chair: OKADA, Tomoko (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(2D5-28, 2D5-29, 2D5-30, 2D5-31, 2D5-32, 2D5-33)
- 2D5-28** Development of New Fluorescent Reagents for for One-Step Electrophoretic Gel Stain of Proteins (AIST; Kanto Chemical Co.,Inc.) SUZUKI, Yoshio; TAKAGI, Nobuyuki; SANO, Takuma; CHIMURO, Tomoyuki
- 2D5-29** Synthesis of Water-Soluble Cyclophanes Bearing a Ni-NTA Moiety and Host-Guest Interaction with His-tag Proteins (Fukuoka University, Graduate School of Science) YASUNAGA, Terutaka; HAYASHIDA, Osamu
- 2D5-30** Guest-Binding and Delivery of Water-Soluble Cyclophanes by Fluorescence Quenching Method (Fukuoka University, Graduate School of Science) KAKU, Yu; KIMURA, Keiichi; HAYASHIDA, Osamu
- 2D5-31** Synthesis of Controlled Guest-Release of Reduction-Responsive Cyclophanes Having Disulfide Linkage (Fukuoka University, Graduate School of Science) ICHIMURA, Kazuaki; HAYASHIDA, Osamu
- 2D5-32** NMR Analysis of Inclusion Behaviors of Cyclodextrins for 17- $\beta$ -Estradiol Derivatives in Aqueous Solution (The Noguchi Institute) ODA, Yoshiki; KATSURAYA, Kaname; YAMANOI, Takashi
- 2D5-33** Development of Receptors with Multiple Hydrogen-Bonding Sites for Anion Recognition (Okayama University) EMA, Tadashi; WATANABE, Sagiri; OKUDA, Keiichi; YAMASAKI, Takayuki

Chair: HAYASHIDA, Osamu (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(2D5-35, 2D5-37, 2D5-38, 2D5-39, 2D5-40)
- 2D5-35\*** Development of Reversible Fluorescence Sensor for Mercury Ion with Extremely High Affinity (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) AKAOKA, Kazushi; TAKI, Masayasu; YAMAMOTO, Yukio
- 2D5-37** Synthesis and intracellular behavior of BODIPY dimer dyes (Faculty of Science, Fukuoka University) Iwasaki, Haruka; NAKAGAWA, Hiroyuki; NAGAHORA, Noriyoshi; OKUMA, Kentaro; SHIOJI, Kosei
- 2D5-38** PET-dependent Fluorescence Sensing of Enzymatic Reactions Using Large and Tunable pKa Shifts of Aliphatic Amines (Grad. Sch. Pharm. Sci., Kyushu Univ.) OSHIKAWA, Yuji; NAKAZONO, Manabu; OJIDA, Akio
- 2D5-39** Syntheses and Affinity Evaluation of Ruthenium-Glycoclusters bearing Controlled Linker Length (TUT) IMAIZUMI, Ryuichi; OKADA, Tomoko; MINOURA, Norihiko
- 2D5-40** Synthesis of Fluoro-coating Phthalocyanine Conjugated with Cyclodextrin and Photo-dynamic Activity (Nagoya Institute of Technology) MORI, Satoru; YOSHIYAMA, Hideyuki; TOKUNAGA, Etsuko; SHIBATA, Norio

Chair: HIRAKAWA, Kazutaka (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(2D5-42, 2D5-43, 2D5-44, 2D5-45, 2D5-46, 2D5-47)
- 2D5-42** Mechanism of fluorescent response of quinoline-based dinuclear zinc complexes toward pyrophosphate (Graduate School of Humanities and Science and KYOUSEI Science Center, Nara Women's Univ.) UGAI, Anna; MIKATA, Yuji
- 2D5-43** Fluorescent response of quinoline-based tris(2-pyridylmethyl)amine (TPA) analogs toward metal ion (Graduate School of Humanities and Sciences and KYOUSEI Science Center, Nara Women's Univ.) NODOMI, Yuki; MIKATA, Yuji
- 2D5-44** Metal ion-induced fluorescent response of bisquinoline derivatives with a thioether linker (Fac.Sci.and KYOUSEI Science center, Nara Women's Univ.) NAKANISHI, Kaori; MIKATA, Yuji
- 2D5-45** Synthesis and Metal Coordination of Porphyrin with Four Nicotinoyl Groups (Faculty of Sci. and Eng., Chuo University) YAMAZAWA, Yukika; KASUYA, Sakiko; KOMATSU, Teruyuki
- 2D5-46** Synthesis of cyclic porphyrin trimer having six carboxylic acid groups at the outskirts (Tokyo Univ. of Science) NAMIKI, Tomoya; SATAKE, Akiharu
- 2D5-47** Solvatochromic Behavior of a distorted porphyrin (Grad. School of Pure and Applied Sciences, Univ. of Tsukuba) OCHIAI, Hidemi; ISHIZUKA, Tomoya; KOTANI, Hiroaki; KOJIMA, Takahiko

Chair: MIKATA, Yuji (17 : 00~17 : 30)

- \* 16:50-17:00: interval for laptop PC connection.(2D5-49, 2D5-50, 2D5-51)
- 2D5-49** Formation of supramolecular assemblies of a G-quartet with porphyrins and temperature-dependence of the structure (Osaka Univ.; ALCA(JST) ; Univ. of Tsukuba) INUI, Yuji; KOJIMA, Takahiko;

FUKUZUMI, Shunichi

- 2D5-50** Control of the singlet oxygen generating activity of water-soluble meso-anthrylporphyrin photosensitizer through DNA recognition (Shizuoka Univ.) HIRAKAWA, Kazutaka; OKAZAKI, Shigetoshi
- 2D5-51** Photoresponse property with the electrode modified with photosystem I and molecular wires (School of Science, The University of Tokyo) MIYACHI, Mariko; YAMANOI, Yoshinori; TERASAKI, Nao; INOUE, Yasunori; NISHIHARA, Hiroshi

### Sunday, March 24, AM

Chair: SAGA, Yoshitaka (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3D5-01, 3D5-02, 3D5-03, 3D5-04, 3D5-05, 3D5-06)
- 3D5-01** Synthesis of Chlorophyll Derivatives Possessing Substituents at the 3- and 20-Positions and Their Reactivities (Ritsumeikan Univ.; Ryukoku Univ.) TAMIAKI, Hitoshi; ARIKI, Nobutaka; MIYATAKE, Tomohiro
- 3D5-02** Synthesis of carbonylated chlorophyll derivatives and their physical properties (Ritsumeikan Univ.) TAMIAKI, Hitoshi; TANAKA, Takuya; WANG, Xiao-feng
- 3D5-03** Reactivity of chlorophyll derivative possessing a trifluoroacetylacetate group at the C3 position with amines (Ritsumeikan Univ.) KINOSHITA, Yusuke; TAMIAKI, Hitoshi
- 3D5-04** Self-assemblies of zinc chlorophyll derivatives in oligopeptide matrixes (Ryukoku University) MIYATAKE, Tomohiro; HASUNUMA, Yuki; WATANABE, Mikiya
- 3D5-05** Self-Assembled Structures of N-containing Hetero Ring-Appended Zinc Chlorophyll Derivatives (Nihon Univ.); College of Science and Technology) SHINOZAKI, Yoshinao; OTSUKI, Joe; RICHARDS, Gary; OGAWA, Keizo; OHARA, Kazuaki; YAMAGUCHI, Kentaro; YOSHIKAWA, Isao; ARAKI, Koji
- 3D5-06** Free radical reactions of chlorophylls (Fac. Eng., Utsunomiya Univ.) OBA, Toru; TATENO, Yubi; FUKUSUMI, Takanori; TAKEI, Natsuki; ITO, Satoshi

Chair: MIYATAKE, Tomohiro (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3D5-08, 3D5-09, 3D5-10, 3D5-12, 3D5-13)
- 3D5-08** Relationship between molecular structures of chlorophylls and their amphiphilicity (Grad. Sch. Eng., Utsunomiya Univ.) OBA, Toru; KOKUBU, Yuki; YASUDA, Satoru; FUKUSUMI, Takanori; ITO, Satoshi
- 3D5-09** Photochemical properties of iodinated chlorins (Graduate School of Engineering, Utsunomiya University) OBA, Toru; YASUDA, Satoru; HORIUCHI, Hiroaki; FUJIWARA, Kyoko; ITOU, Satoshi; OTSUKI, Joe; NAGASE, Hiroki
- 3D5-10\*** Effects of Peripheral Substituents in the Tetrapyrrole Macrocycle upon Demetalation Properties of Chlorophylls (Kinki Univ.; Utsunomiya Univ.; Ritsumeikan Univ.) SADAOKA, Kana; OBA, Toru; TAMIAKI, Hitoshi; SAGA, Yoshitaka
- 3D5-12** Biosynthesis of Unnatural Bacteriochlorophyll *c* Esterified with Linear Alcohols Possessing Halogen in Green Sulfur Photosynthetic Bacteria (Kinki Univ.; Ritsumeikan Univ.) SAGA, Yoshitaka; HAYASHI, Keisuke; MIZOGUCHI, Tadashi; TAMIAKI, Hitoshi
- 3D5-13** Synthesis of Bacteriochlorophylla Derivatives Esterified with Various Alcohols and Reconstitution with Light-Harvesting Proteins (Kinki Univ.) SAGA, Yoshitaka; KAWAMURA, Kenji

Chair: OBA, Toru (11 : 20~12 : 00)

- \* 11:10-11:20: interval for laptop PC connection.(3D5-15, 3D5-17, 3D5-18)
- 3D5-15\*** Supramolecular Nanostructures of Self-Aggregates of Natural Bacteriochlorophylls (Ritsumeikan Univ.) SHOJI, Sunao; MIZOGUCHI, Tadashi; TAMIAKI, Hitoshi
- 3D5-17** Separation and Self-Aggregation of Isomers of Zinc Chlorophyll Derivatives Possessing a Crown-Ether (Kinki Univ.; Ritsumeikan Univ.) TAKAHASHI, Naoya; TAMIAKI, Hitoshi; SAGA, Yoshitaka
- 3D5-18** Self-Assembly of Bacteriochlorophylls *e* and *c* Derivatives with Alkoxysilanes (Kinki Univ.; Ritsumeikan Univ.) SAGA, Yoshitaka; SAIKI, Tatsuya; TAMIAKI, Hitoshi

### Sunday, March 24, PM

Chair: HINO, Hiroshi (13 : 30~14 : 20)

- \* 13:20-13:30: interval for laptop PC connection.(3D5-28, 3D5-29, 3D5-30, 3D5-31)
- 3D5-28** Analysis of structure and interaction function of sphingolipid nanocluster in synaptosomal biomembrane model (Keio Univ.) FUKUDA, Ryoto; KOJIMA, Takahiko; MATSUBARA, Teruhiko; YAMAMOTO, Naoki; YANAGISAWA, Katsuhiko; SATO, Toshinori
- 3D5-29** Analysis of endogenous glycosphingolipids involved in differentiation or differentiation about human mesenchymal stem cells from bone marrow (Keio Univ.) SHIBANO, Yuki; KISHIMOTO, Satoko; ISHIHARA, Masayuki; SATO, Toshinori
- 3D5-30** Analysis of new glycan markers for human induced pluripotent stem (iPS) cells (Keio Univ.; Natl. Res. Inst. for Child Health and Dev.) SHIBATA, Eri; OJIMA, Takuma; TOYODA, Masashi; NAKAJIMA, Hideki;



INOUE, Mayu; FUJIMOTO, Junichiro; UMEZAWA, Akihiro; SATO, Toshinori

**3D5-31\*** O-Glycomic analysis of stem cells based on  $\beta$ -elimination in the presence of pyrazolone analogues (Hokkaido Univ.; Graduate School of Advanced Life Science) FURUKAWA, Jun-ichi; FUJITANI, Naoki; PIAO, Jinhua; SHINOHARA, Yasuro

Chair: IZUMI, Masayuki (14 : 30~15 : 30)

\* 14:20-14:30: interval for laptop PC connection.(3D5-34, 3D5-35, 3D5-37, 3D5-38)

**3D5-34** Chemo-enzymatic synthesis and interaction analysis of O-Mannose type glycopeptides Library in  $\alpha$ -dystroglycan (Hokkaido Univ.; Grad. School of Life Science) KIKUCHI, Seiya; HINO, Hiroshi; NISHIMURA, Shimichiro

**3D5-35\*** Sialyllactose-modified 3-way junction DNA as a inhibitor of influenza hemagglutinin (Kobe Univ. Human Dev.) EBARA, Yasuhiro; KAIHATSU, Kunihiko; KATO, Nobuo

**3D5-37** Development of quick/conventional diagnostic method for Guillain-Barre syndrome using sugar-chain immobilized fluorescent nanoparticles (Graduate School of Science and Engineering, Kagoshima Univ.) SHINCHI, Hiroyuki; YUKI, Nobuhiro; ISHIDA, Hideharu; HIRATA, Koichi; WAKAO, Masahiro; SUDA, Yasuo

**3D5-38\*** Control of the hydrolytic activity of cellulose nanofibers by convection (Tokyo Tech) OKURA, Hiromichi; SERIZAWA, Takeshi

Chair: WAKAO, Masahiro (15 : 40~16 : 30)

\* 15:30-15:40: interval for laptop PC connection.(3D5-41, 3D5-43, 3D5-44, 3D5-45)

**3D5-41\*** Functional analysis of endo-mannosidase in the endoplasmic reticulum using synthetic substrate (Seikei Univ.; RIKEN-ASI; ERATO-JST) TOTANI, Kiichiro; WATANABE, Chie; SAITO, Nobuhiko; HIRANO, Makoto; ITO, Yukishige

**3D5-43** Selective inhibitors for mannosidases in the endoplasmic reticulum (Department of Materials and Life Science, Seikei Univ.) KURIBARA, Taiki; HIRANO, Makoto; TOTANI, Kiichiro

**3D5-44** Total Synthesis of Homogeneous Erythropoietin Bearing High Mannose-type Oligosaccharide (Osaka Univ.) KIUCHI, Tatsuo; OKAMOTO, Ryo; IZUMI, Masayuki; ITO, Yukishige; KAJIHARA, Yasuhiro

**3D5-45** Synthetic Study of Carbohydrate Binding Domain of Siglec7 (Osaka Univ.) OTSUKI, Akihisa; OKAMOTO, Ryo; IZUMI, Masayuki; KAJIHARA, Yasuhiro

Chair: TOTANI, Kiichiro (16 : 40~17 : 30)

\* 16:30-16:40: interval for laptop PC connection.(3D5-47, 3D5-48, 3D5-49, 3D5-50, 3D5-51)

**3D5-47\*** Bacterial cell wall peptidoglycan fragment library/array for investigation of their protein recognition (Grad. Sch. of Sci., Osaka Univ.) WANG, Ning; HIRATA, Akiyoshi; NOKIHARA, Kiyoshi; FUJIMOTO, Yukari; FUKASE, Koichi

**3D5-48** Synthetic study on chondroitin sulfate tetrasaccharide partial structure (Graduate School of Science and Engineering, Kagoshima Univ.) MIYACHI, Kento; WAKAO, Masahiro; ICHIKI, Yukiko; KAKITSUBATA, Yuhei; SUDA, Yasuo

**3D5-49** Synthesis of dermatan sulfate partial structures and their binding interaction (Graduate School of Science and Engineering, Kagoshima Univ.) KAKITSUBATA, Yuhei; WAKAO, Masahiro; SUDA, Yasuo

**3D5-50\*** Chemical synthesis of homogeneous glycoprotein and its structural analysis by NMR (Sch. Sci., Osaka Univ.) NGUYEN, Hien Minh; OKAMOTO, Ryo; IZUMI, Masayuki; KAJIHARA, Yasuhiro

**3D5-51** Synthetic study of Fc region of human antibody IgG by use of chemical and E. coli expression methods (Osaka Univ.) IMADA, Shohei; OKAMOTO, Ryo; IZUMI, Masayuki; KAJIHARA, Yasuhiro

## Monday, March 25, AM

### lipid

Chair: KIKUCHI, Jun-Ichi (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(4D5-01, 4D5-02, 4D5-03, 4D5-05)

**4D5-01** Self-Assembly of Luminescent Lanthanide Complexes with Cholesterlylamide Sidearms (Osaka City Univ.; JST, CREST) SHINODA, Satoshi; SAGAMI, Takuya

**4D5-02** Synthesis and Liposome Formation of Artificial Lipids Possessing a Bipyridine Moiety (Kinki Univ.; Ryukoku Univ.) SAGA, Yoshitaka; TOMIDA, Takashi; MIYATAKE, Tomohiro

**4D5-03\*** Self-spreading behavior of lipid bilayer at the solid-aqueous ionic liquid interface (NTT Basic Research Labs., NTT Corporation) FURUKAWA, Kazuaki; HIBINO, Hiroki

**4D5-05\*** Observation of lipid membrane dynamics using asymmetric giant liposomes (Kanagawa Academy of Science and Technology, Institute of Industrial Science, The University of Tokyo) KAMIYA, Koki; KAWANO, Ryuji; OSAKI, Toshihisa; TAKEUCHI, Shoji

Chair: MIYATAKE, Tomohiro (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(4D5-08, 4D5-09, 4D5-11, 4D5-12)

**4D5-08** Dynamic Behaviors into Giant Unilamellar Vesicles Induced by Uptake of [70]Fullerene (Graduate School of Materials Science, Nara Institute of Science and Technology) HIDA, Tomohiro; IKEDA, Atsushi; YASUHARA, Kazuma; TSUKAMOTO, Manami; IIZUKA, Tatsuya; KIKUCHI, Jun-ichi.

**4D5-09\*** Dynamic change of membrane physical property in cell-sized model membrane by interaction with amyloid beta peptides. (Sch. Mat. Sci., JAIST) MORITA, Masamune; VESTERGARRD, Mun'delanjji C.; HAMADA, Tsutomu; TAKAGI, Masahiro

**4D5-11** Bicelle crystallization for analysis of interaction between membrane protein and lipids (Grad. Sch. Sci., Osaka Univ.) SHIMADA, Masanori; MATSUMORI, Nobuaki; NIYAMA, Mayumi; KAWATAKE, Satoshi; MATSUOKA, Shigeru; SUGIYAMA, Shigeru; MURATA, Michio; MIZOHATA, Eiichi; INOUE, Tsuyoshi

**4D5-12\*** Electron Conduction and Photocurrent Generation of a Light-Harvesting/Reaction Center Core Complex in Lipid Membrane Environments (Nagoya Institute of Technology) SUMINO, Ayumi; DEWA, Takehisa; SASAKI, Nobuaki; KONDO, Masaharu; HASHIMOTO, Hideki; NANGO, Mamoru

Chair: TOYOTA, Taro (11 : 20~12 : 10)

\* 11:10-11:20: interval for laptop PC connection.(4D5-15, 4D5-16, 4D5-18)

**4D5-15** Role of cholesterol in curvature necessary for maintaining cell-sized lipid vesicles (JAIST; Sch. of Materials Science) KATO, Sho; MORITA, Masamune; YODA, Tsuyoshi; HAMADA, Tsutomu; TAKAGI, Masahiro

**4D5-16\*** The effects of Oxidized Products of Lipids on phase separation of Membrane (School of Materials Science, JAIST) YODA, Tsuyoshi; PHAN, Houn Thi Than; VESTERGAARD, Mun'delanjji; HAMADA, Tsutomu; TAKAGI, Masahiro

**4D5-18\*** <sup>2</sup>H Solid State NMR study on the mobility of sphingomyelin (Sch. Sci., Osaka Univ.) YASUDA, Tomokazu; TSUCHIKAWA, Hiroshi; MATSUMORI, Nobuaki; MURATA, Michio

## Monday, March 25, PM

### lipid

Chair: TANAKA, Tsuyoshi (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(4D5-28, 4D5-29, 4D5-30)

**4D5-28** Synthesis of amphiphilic hinge sugars aiming at Zn<sup>2+</sup>-responsive liposomes (Grad. Sch. of Biosci. and Biotech., Tokyo Tech.) TAKEUCHI, Junji; SHIMOYAMA, Atsushi; OHKUBO, Akihiro; YUASA, Hideya

**4D5-29** Successive self-reproduction of vesicular model protocell (The Univ. of Tokyo) KURIHARA, Kensuke; OKURA, Yusaku; KAN, Yumi; SUZUKI, Kentaro; TOYOTA, Taro; SUGAWARA, Tadashi

**4D5-30\*** Gene Delivery to Primary Neurons Mediated by Organic-Inorganic Hybrid Vesicle (Nara Inst. of Sci. and Technol.) TAHARA, Keishiro; MORIUCHI, Takanobu; TSUKUI, Miku; HIROTA, Akira; MAENO, Takanori; TORIYAMA, Michinori; INAGAKI, Naoyuki; KIKUCHI, Jun-ichi

Chair: TAKAGI, Masahiro (14 : 20~15 : 00)

\* 14:10-14:20: interval for laptop PC connection.(4D5-33, 4D5-35, 4D5-36)

**4D5-33\*** Functional analysis of  $\Delta^9$  desaturase genes from oleaginous marine diatom *Fistulifera* sp. strain JPCC DA0580. (Inst. Engr., Tokyo Univ. Agri. Tech.) MUTO, Masaki; KUBOTA, Chihiro; MATSUMOTO, Mitsufumi; TANAKA, Masayoshi; YOSHINO, Tomoko; TANAKA, Tsuyoshi

**4D5-35** Protein Kinase Inhibitor Assay with Cell-Penetrative Polymers and a Fluorogenic Liposome (Ryukoku Univ.; Univ. of Geneva) MIYATAKE, Tomohiro; ISOTANI, Yuji; MURATA, Hiroto; MATILE, Stefan

**4D5-36** Synthesis of Cell-Penetrative Polymers and Application for Kinase Assays (Ryukoku Univ.; Univ. of Geneva) MIYATAKE, Tomohiro; IWAMOTO, Hiroki; SUZUKI, Hayato; MATILE, Stefan

# Room E1

FOREST HOUSE F201

## Biofunctional Chemistry ; Biotechnology

Friday, March 22, AM

### DNA Nanotechnology

Chair: KUZUYA, Akinori (9 : 30 ~ 10 : 30)

\* 9:20-9:30: interval for laptop PC connection.(1E1-04, 1E1-05, 1E1-06, 1E1-07, 1E1-08)

**1E1-04** Immobilization of a single protein at defined position of DNA origami by using zinc finger proteins (IAE, Kyoto Univ.) NISHIGUCHI, Yasuhiro;

NAKATA, Eiji; UEMURA, Shouhei; NGO, Anh Tien; SAIMURA, Masayuki; MORII, Takashi

- 1E1-05<sup>#</sup>** Construction of Dimeric Adaptor to Locate Protein Dimers on Molecular Switchboard (IAE, Kyoto Univ.) NGO, Anh Tien; NAKATA, Eiji; SAIMURA, Masayuki; MORII, Takashi
- 1E1-06** integration of ion channel complexes by using DNA origami (Graduate School of Engineering, Kyoto University) KOYAMA, Shohei; KIYONAKA, Shigeki; NAKATA, Eiji; SUZUKI, Yuki; HIDAKA, Kumi; MORI, Emiko; ENDO, Masayuki; MORII, Takashi; SUGIYAMA, Hiroshi; MORI, Yasuo
- 1E1-07** Construction of RNA-templated DNA nano structures (Kyoto Univ. Graduate School of Science; Kyoto Univ. iCeMS) YAMAMOTO, Seigi; ENDO, Masayuki; TATSUMI, Koichi; EMURA, Tomoko; HIDAKA, Kumi; SUGIYAMA, Hiroshi
- 1E1-08<sup>#\*</sup>** Regulation of assembly of DNA nanostructures using photo-switchable oligonucleotides (Kyoto Univ. Graduate School of Science; Kyoto Univ. iCeMS) YANG, Yangyang; ENDO, Masayuki; SUZUKI, Yuki; HIDAKA, Kumi; SUGIYAMA, Hiroshi

Chair: MORI-I, Takashi (10 : 40~11 : 40)

- \* 10:30-10:40: interval for laptop PC connection.(1E1-11, 1E1-12, 1E1-13, 1E1-14, 1E1-15, 1E1-16)
- 1E1-11** Construction of rotaxane introduced cyclodextrin bearing DNA oligomer (Kansai Univ.) ISHINO, Mana; SONODA, Takuya; KUZUYA, Akinori; OHYA, Yuichi
- 1E1-12** A Nanoswitching Device Using Nanomechanical DNA Origami (Kansai Univ.) HASHIZUME, Mirai; KAMEDA, Koji; SAKAI, Yusuke; YAMAZAKI, Takahiro; KUZUYA, Akinori; OHYA, Yuichi; KOMIYAMA, Makoto
- 1E1-13** Efficient preparation of DNA Nanotubes using DNA Sudare design (Kansai Univ.) MINAMIDA, Shinya; KAINO, Masafumi; HASHIZUME, Mirai; KUZUYA, Akinori; OHYA, Yuichi
- 1E1-14** Development of a new disk-like DNA Origami nanostructure using DNA Sudare design (Kansai Univ.) KAINO, Masafumi; MINAMIDA, Shinya; HASHIZUME, Mirai; KUZUYA, Akinori; OHYA, Yuichi
- 1E1-15** Estimation of intramolecular stacking interactions in DNA origami (Kansai Univ.) KITAWAKI, Yusuke; HASHIZUME, Mirai; ISHINO, Mana; MINAMIDA, Shinya; KAINO, Masafumi; SONODA, Takuya; MATSUMOTO, Nana; KUZUYA, Akinori; OHYA, Yuichi
- 1E1-16** Creation of DNA tile structure equipped with heat resistance (School of Material Science, Japan Advanced Institute of Science and Technology) NAKAMURA, Shigetaka; FUJIMOTO, Kenzo

## Friday, March 22, PM

Chair: NAKATANI, Kazuhiko (12 : 50~13 : 50)

- \* 12:40-12:50: interval for laptop PC connection.(1E1-24, 1E1-25, 1E1-26, 1E1-28)
- 1E1-24** Design of ribonucleopeptides with catalytic functional groups (IAE, Kyoto Univ.) TAMURA, Tomoki; FUJIKAWA, Yusuke; NAKANO, Shun; NAKATA, Eiji; MORII, Takashi
- 1E1-25<sup>#</sup>** Construction of a nano-assembly with ribonucleopeptide receptors (IAE, Kyoto Univ.) LIEW, Fong Fong; ANNONI, Chiara; TAMURA, Tomoki; NAKANO, Shun; NAKATA, Eiji; MORII, Takashi
- 1E1-26<sup>#\*</sup>** Single-molecule observation of B-Z transition in a DNA nanostructure (Kyoto Univ. Graduate School of Science; Kyoto Univ. iCeMS) RAJENDRAN, Arivazhagan; ENDO, Masayuki; HIDAKA, Kumi; SUGIYAMA, Hiroshi
- 1E1-28<sup>\*</sup>** Regulation of Cre-loxP site specific recombination using DNA origami scaffold (Kyoto Univ. Graduate School of Science; Kyoto Univ. iCeMS) SUZUKI, Yuki; KATSUDA, Yusuke; OU, Keiyu; HIDAKA, Kumi; ENDO, Masayuki; SUGIYAMA, Hiroshi

Chair: FUJIMOTO, Kenzo (14 : 00~14 : 50)

- \* 13:50-14:00: interval for laptop PC connection.(1E1-31, 1E1-33, 1E1-34, 1E1-35)
- 1E1-31<sup>\*</sup>** Construction of two-dimensional nanostructures to lipid bilayer membrane surface by novel amphiphilic DNA (ISIR, Osaka Univ.) MAKISHI, Shingo; SHIBATA, Tomonori; MATSUZAKI, Koichi; CONTERA, Sonia; Antoran; DOHNO, Chikara; NAKATANI, Kazuhiko
- 1E1-33** Stabilization of artificial DNA junctions via metal complexation (Grad. School of Science, The Univ. of Tokyo) TAKEZAWA, Yusuke; DUPREY, Jean-louis; SHIONOYA, Mitsuhiko
- 1E1-34** Development of a solid-supported DNA hybrid catalyst for asymmetric synthesis (Graduate School of Science, Kyoto University) PARK, Soyoun; IKEHATA, Keiichi; SUGIYAMA, Hiroshi
- 1E1-35** DNA-Based hybrid catalysts using the covalent anchoring strategy (Graduate School of Science, Kyoto University) PARK, Soyoun; IKEHATA, Keiichi; SUGIYAMA, Hiroshi

Chair: ENDO, Masayuki (17 : 10~18 : 10)

- \* 17:00-17:10: interval for laptop PC connection.(1E1-50, 1E1-51, 1E1-52, 1E1-54, 1E1-55)
- 1E1-50** Synthesis of RNA bulge binding small molecule and application as inhibitor of Dicer cleavage reaction (ISIR, Osaka Univ.) OTABE, Takahiro;

MURATA, Asako; TAKEI, Fumie; NAKATANI, Kazuhiko

- 1E1-51** Development of artificial gene expression system by G-G mismatch binding ligand-induced pseudoknot formation (ISIR, Osaka Univ.) MATSUMOTO, Saki; HONG, Changfeng; MURATA, Asako; NAKATANI, Kazuhiko
- 1E1-52<sup>\*</sup>** Homologous recombination in human cells using ARCUT (Univ. of Tsukuba) IKEDO, Akiyuki; SHIGI, Narumi; SUMAOKA, Jun; KOMIYAMA, Makoto
- 1E1-54** Development of Chemical Method with High Sensitivity to Detect DNA Methylation (Univ. of Tokyo RCAST) TOYOMURA, Makoto; HAYASHI, Gosuke; OKAMOTO, Akimitsu
- 1E1-55** A novel real-time PCR assay for the pinpoint detection of methylated DNA. (Tokyo Univ. of Technol.) TAKANASHI, Kenta; KATO, Teru

## Saturday, March 23, AM

Chair: ASANUMA, Hiroyuki (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2E1-01, 2E1-02, 2E1-03, 2E1-04, 2E1-06)
- 2E1-01** Promotion of Purine Motif Triplex DNA Formation by Budding Yeast Triplex DNA Binding Protein STM1 (Tokyo Univ. of Sci.) SASAKI, Kiyomi; MASE, Kikue; SATO, Norihiro; TORIGOE, Hidetaka
- 2E1-02** Development of the Strategy for Selective Chemical Modification to an abasic site in duplex DNA (IMRAM, Tohoku University) SATO, Norihiro; MOKI, Takuma; HAGIHARA, Shinya; NAGATSUGI, Fumi
- 2E1-03** Development of fluorescence 'turn on type' PCR using cytosine-bulge binding fluorescent molecules (ISIR, Osaka Univ.) YU, Gaigai; TAKEI, Fumie; SHIBATA, Tomonori; DOHNO, Chikara; NAKATANI, Kazuhiko
- 2E1-04<sup>\*</sup>** Creation of Prototype XNA Switch Molecules (Graduate School of Engineering, Gunma University) KASAHARA, Yuuya; IRISAWA, Yuuta; OZAKI, Hiroaki; OBIKA, Satoshi; KUWAHARA, Masayasu
- 2E1-06** Screening of sugar-modified DNA aptamers by CE-SELEX (Graduate School of Engineering, Gunma University) IRISAWA, Yuuta; KASAHARA, Yuuya; OZAKI, Hiroaki; OBIKA, Satoshi; KUWAHARA, Masayasu

Chair: SHINOZUKA, Kazuo (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(2E1-08, 2E1-10, 2E1-11, 2E1-12, 2E1-13)
- 2E1-08<sup>\*</sup>** Development of novel artificial nucleic acids, aTNA and sTNA, composed of acyclic diols and its application to the fluorescent detection of oligonucleotides (Nagoya Univ.) MURAYAMA, Keiji; TANAKA, Yoshihiro; KASHIDA, Hiromu; ASANUMA, Hiroyuki
- 2E1-10** Synthesis of new emissive deoxyguanosine analog as novel fluorescent probe and application to biomolecular switching device (Graduate School of Science, Kyoto University) OTOMO, Haruka; PARK, Soyoun; SUGIYAMA, Hiroshi
- 2E1-11<sup>#</sup>** Multicolor chromosome imaging by click chemistry (Faculty of Medicine, University of Miyazaki) LIU, Hongshan; XU, Yan
- 2E1-12** DNA-templated formation and release of ruthenium-platinum dinuclear complex and application to gene analysis (Kumamoto Univ.; Chuo Univ.) KITAMURA, Yusuke; TODA, Kentaro; TOMIMORI, Manabu; CHIKIRA, Makoto; IHARA, Toshihiro
- 2E1-13** Chemical detection of 5-hydroxymethylcytosine (RCAST, The Univ. of Tokyo) SHIOTA, Hidefumi; HAYASHI, Gosuke; OKAMOTO, Akimitsu

Chair: IHARA, Toshihiro (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(2E1-15, 2E1-17, 2E1-18, 2E1-19, 2E1-20)
- 2E1-15<sup>\*</sup>** Design and synthesis of new phosphine derivative for nucleic acid detection (RIKEN) SANEYOSHI, Hisao; MASHIMO, Takushi; HATANO, Ken; ABE, Hiroshi; ITO, Yoshihiro
- 2E1-17** Design of sensitive linear probe without destabilizing the duplex (Sch. Eng., Nagoya Univ.) AKAHANE, Mariko; NIWA, Rie; OSAWA, Takuya; KATO, Tomohiro; KASHIDA, Hiromu; ASANUMA, Hiroyuki
- 2E1-18** Synthesis and fluorescent properties of a novel silylated pyrene having diisopropyl group and fluorescence labeled probe DNA (Gunma University) MOKI, Daisuke; MORIGUCHI, Tomohisa; SHINOZUKA, Kazuo
- 2E1-19** Development of the Novel Dumbbell-Formed Molecular Beacon Probe Modified by the Silylated Pyrene (Gunma University) TAKAYAMA, Noriko; MORIGUCHI, Tomohisa; SHINOZUKA, Kazuo
- 2E1-20** Control of the localization of nucleic acid probes which detect mRNA in living cells (Univ. of Tokyo RCAST) TAKEDA, Katsuya; HAYASHI, Gosuke; OKAMOTO, Akimitsu

## Saturday, March 23, PM

Chair: OKAMOTO, Akimitsu (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(2E1-28, 2E1-29, 2E1-31, 2E1-32, 2E1-33)
- 2E1-28** Design of linear probe detecting RNA and its application to the fluorescent imaging of cells. (Grad. Sch. Eng., Nagoya Univ.) AKAHANE, Mariko; OSAWA, Takuya; KATO, Tomohiro; KAMIYA, Yukiko; KSHIDA, Hiromu; ASANUMA, Hiroyuki
- 2E1-29<sup>\*</sup>** Cell function analysis and control using nucleic acid aptamer (1):

Control of intercellular adhesion and its application. (IFRC, Kyushu University) TOKUNAGA, Takeshi; KUWAHATA, Kohei; SANDO, Shinsuke

**2E1-31** Cell function analysis and control using nucleic acid aptamer (2): Molecular sensing at cell surface (IFRC, Kyushu University) KUWAHATA, Kohei; TOKUNAGA, Takeshi; SANDO, Shinsuke

**2E1-32** Cell function analysis and control using nucleic acid aptamer (3): Design of cell-recognition motif (IFRC, Kyushu University) HOSHIKA, Rina; TSUCHIYA, Akira; SANDO, Shinsuke

**2E1-33** DNA detection using strand exchange reaction on graphene oxide (Kumamoto Univ.) MIYAHATA, Takaaki; FUTAMURA, Akira; YOSHIMURA, Syouta; KITAMURA, Yuusuke; IHARA, Toshihiro

Chair: KASHIDA, Hiromu (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(2E1-35, 2E1-37, 2E1-38, 2E1-39)

**2E1-35\*** Synthesis of novel cationic peptides binding to RNA duplexes (Univ. of Tokyo) MAEDA, Yusuke; IWATA, Rintaro; WADA, Takeshi

**2E1-37** Signal-on type electrochemical gene detection in homogenous solution using ferrocenylnaphthalene diimide and  $\beta$ -cyclodextrin (Kyushu Institute of Technology) TAKENAKA, Hirotomo; SATO, Shinobu; TAKENAKA, Shigeori

**2E1-38** DNA detection using naphthalene diimide having cysteine moieties as a molecular staple to clip double stranded DNA on a gold electrode (Kyushu Inst. Tech.) HORI, Yuki; SATO, Shinobu; TAKENAKA, Shigeori

**2E1-39\*** Drug-binding artificial nucleic acid aptamers: effects of the foreign functionality on binding properties. (Univ. of Gunma) IMAIZUMI, Yuri; KITAZUME, Syunsuke; FUJITA, Hiroto; KASAHARA, Yuuya; OZAKI, Hiroaki; KUWAHARA, Masayasu; ENDOH, Tamaki; SUGIMOTO, Naoki

Chair: TAKENAKA, Shigeori (15 : 50~16 : 40)

\* 15:40-15:50: interval for laptop PC connection.(2E1-42, 2E1-43, 2E1-44, 2E1-45, 2E1-46)

**2E1-42** Development of new nucleoside sensors utilizing fluorescent triplexes (Sch. Biosci. Biotech., Tokyo Tech) OHZEKI, Hiroki; ODA, Yuki; KANAMORI, Takashi; OHKUBO, Akihiro; SEKINE, Mitsuo; SEIO, Kohji

**2E1-43** The interaction between sugar linked Zn complexes and DNA in the crowding conditions (Kansai Univ., Kyoto Univ., NAIST) NAKAI, Misaki; HIRARA, Akari; FUKUDA, Hironobu; YANO, Shigenobu; NAKABAYASHI, Yasuo

**2E1-44** Synthesis and Properties of Peptide Ribonucleic Acid (PRNA)-DNA Chimeras for Efficient RNase H Cleavage Activity of RNA Complex (IMRAM, Tohoku Univ.) UEMATSU, Ryohei; MIZUTANI, Tatsuya; SAKAMOTO, Seiji; ARAKI, Yasuyuki; MATSUYAMA, Yohei; YAMAYOSHI, Asako; MURAKAMI, Akira; WADA, Takehiko

**2E1-45** Effect of molecular environments on the behaviors of biomolecules (39):Quantitative analysis for the effects of the hydrated ionic liquid on the stability of the Hoogsteen base pairs (FIBER, Konan Univ.; FIRST, Konan Univ.) NAKAMURA, Ken; TATEISHI, Hisae; SUGIMOTO, Naoki

**2E1-46** Effect of molecular environments on the behaviors of biomolecules (40): Analysis for the effect of choline ions on the stability of DNA base pairs using the molecular dynamics simulation (FIBER, Konan Univ.) NAKANNO, Miki; TATEISHI, Hisae; SUGIMOTO, Naoki

Chair: OHYA, Yuichi (16 : 50~17 : 30)

\* 16:40-16:50: interval for laptop PC connection.(2E1-48, 2E1-49, 2E1-50, 2E1-51)

**2E1-48\*** Effect of molecular environments on the behaviors of biomolecules(45): Interfacial hybridization kinetics on living cell surface (FIBER, Konan Univ.; FIRST, Konan Univ.) AMBADAS, Rode; ENDOH, Tamaki; TAKAHASHI, Shuntaro; TATEISHI, Hisae; SUGIMOTO, Naoki

**2E1-49** Synthesis and design of RNA binding molecules in enthalpy-driven matter (ISIR, Osaka Univ.) NATSUHARA, Nozomi; DI, Yue; TSUDA, Tetsuya; NAKATANI, Kazuhiko

**2E1-50** Synthesis and design of RNA binding molecules in entropy-driven manner (ISIR, Osaka Univ.) DI, Yue; LI, Jinxing; TSUDA, Tetsuya; NAKATANI, Kazuhiko

**2E1-51** Inhibition of pre-miRNA processing by Dicer using RNA-binding small molecules (ISIR, Osaka Univ.) MURATA, Asako; FUKUZUMI, Takeo; UMEMOTO, Shiori; KOHYAMA, Izumi; DOHNO, Chikara; NAKATANI, Kazuhiko

### Sunday, March 24, AM

Chair: TORIGOE, Hidetaka (9 : 00 ~10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(3E1-01, 3E1-03, 3E1-05)

**3E1-01\*** Guanine-tethered antisense induce guanine quadruplex formation in RNAs. (Graduate School of Science and Technology, Hirosaki Univ.) HAGIHARA, Masaki

**3E1-03\*** Effect of molecular environments on the behaviors of biomolecules (38): Thermal stability of G-quadruplex under high pressure (FIBER, Konan Univ.) TAKAHASHI, Shuntaro; SUGIMOTO, Naoki

**3E1-05\*** Effect of molecular environments on the behaviors of biomolecules (46):Translational frameshift mediated by RNA G-quadruplex in mRNA (FIBER, Konan Univ.; FIRST, Konan Univ.) ENDOH, Tamaki;

NAKAMURA, Ken; SUGIMOTO, Naoki

Chair: YAMAMOTO, Yasuhiko (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(3E1-08, 3E1-09, 3E1-10, 3E1-11, 3E1-12)

**3E1-08** Development of a Novel Method to Determine the Concentration of Lead Ion: Application of Quadruplex DNA Formation Involving Lead Ion (Tokyo Univ. of Sci.) ENOMOTO, Souta; IMAZAKI, Mari; TORIGOE, Hidetaka

**3E1-09\*** Structure and stability of telomeric RNA G-quadruplex (Faculty of Medicine, University of Miyazaki) YANG, Jie; ISHIZUKA, Takumi; XU, Yan

**3E1-10** Hole trapping of G-quartets in G-quadruplex (ISIR, Osaka Univ.) CHOI, Jungkweon; TANAKA, Atsushi; FUJITSUKA, Mamoru; MAJIMA, Tetsuro.

**3E1-11** Effect of molecular environments on the behaviors of biomolecules (41): Effect of cell-mimic conditions induced by the phospholipid membrane on the G-quadruplex formations (FIBER, Konan Univ.; FIRST, Konan Univ.) PRAMANIK, Smritimoy; TATEISHI, Hisae; SUGIMOTO, Naoki

**3E1-12\*** Effect of molecular environments on the behaviors of biomolecules (42) : Quantitative analysis of transcription regulated by non-canonical structures in template DNA (FIBER, Konan Univ.; FIRST, Konan Univ.) TATEISHI, Hisae; ISONO, Noburu; SUGIMOTO, Naoki

Chair: WADA, Takehiko (11 : 20~12 : 30)

\* 11:10-11:20: interval for laptop PC connection.(3E1-15, 3E1-16, 3E1-17, 3E1-18, 3E1-19, 3E1-20, 3E1-21)

**3E1-15** Aptamer selection focusing on G-quadruplex forming sequence in genome (Tokyo Univ. of Agric. & Technol.) SAITO, Taiki; YOKOYAMA, Tomomi; YOSHIDA, Wataru; Ikebukuro, Kazunori

**3E1-16** Selection of biomarker binding aptamer based on G-quadruplex forming sequence in genome (Tokyo Univ. of Agric. & Technol.) YOSHIDA, Wataru; YOKOYAMA, Tomomi; SAITO, Taiki; Ikebukuro, Kazunori

**3E1-17** Effect of molecular environments on the behaviors of biomolecules (44):Sensitive detection of DNA G-quadruplex by thioflavin T (FIRST, Konan Univ.) MAEDA, Ryuichi; GABELICA, Valerie; FUJIMOTO, Takeshi; YAKU, Hidenobu; MURASHIMA, Takashi; SUGIMOTO, Naoki; MIYOSHI, Daisuke

**3E1-18** Effect of molecular environments on the behaviors of biomolecules (44):Structure and stability of long telomeric DNAs under cell-mimicking conditions (FIRST, Konan Univ.; FIBER, Konan Univ.) MIYOSHI, Daisuke; YU, Haiqing; GU, Xiaobo; NAKANO, Shu-ichi; SUGIMOTO, Naoki

**3E1-19** Electrochemical detection of aberrant methylated hTERT gene using ferrocenylnaphthalene diimide coupled with multi-electrode chip (Kyushu Inst. Tech.) SAEKI, Toshiro; TANAKA, Tomoki; SATOU, Shinobu; TAKENAKA, Shigeori

**3E1-20** Interaction between heme and G-quartet in heme-DNA complexes (Department of Chemistry, University of Tsukuba and National Food Research Institute, National Agriculture and Food Research Organization) OKADA, Tatsuya; SAITO, Kaori; TAI, Hulin; HEMMI, Hikaru; YAMAMOTO, Yasuhiko

**3E1-21** Functional analyses of TAF15 at telomere (Shizuoka Univ.) YUKAWA, Nina; TAKAHAMA, Kentaro; OYOSHI, Takanori

### Sunday, March 24, PM

Chair: YAMANA, Kazushige (13 : 40~14 : 40)

\* 13:30-13:40: interval for laptop PC connection.(3E1-29, 3E1-30, 3E1-31, 3E1-32, 3E1-33)

**3E1-29** Chemical synthesis of  $O^6$ -phosphoryl inosine derivatives (Gifu University) MORITA, Yasuhiro; OKA, Natsumi; ANDO, Kaori

**3E1-30** Synthesis of oligonucleotides having biodegradable protecting group on phosphodiester linkages. (Kanagawa University) SAGAWA, Naoki; TOMORI, Takahito; OKAMOTO, Itaru; ONO, Akira

**3E1-31** Synthesis and properties of triplex-forming oligonucleotides containing 6-thioxanthosine and 6-thioguanosine derivatives (Sch. Biosci. Biotech., Tokyo Tech) INDE, Takeshi; OHKUBO, Akihiro; YAMADA, Kenji; HATTORI, Yusaku; KANAMORI, Takashi; SEIO, Kohji; SEKINE, Mitsuo

**3E1-32** Synthesis and properties of cyclic RNA oligonucleotides containing acyl groups at the 5'- and 3'-terminal sites (Grad. Sch. Biosci. Biotech., Tokyo Tech) TAGO, Nobuhiro; OHKUBO, Akihiro; KANAMORI, Takashi; SEIO, Kohji; SEKINE, Mitsuo

**3E1-33\*** Reactivity of the cross-link forming pyrimidine derivative to guanine analog (IMRAM, Tohoku Univ.) KUSANO, Shuhei; HAGIHARA, Shinya; NATSUGI, Humi

Chair: WADA, Takeshi (14 : 50~15 : 50)

\* 14:40-14:50: interval for laptop PC connection.(3E1-36, 3E1-37, 3E1-38, 3E1-39, 3E1-40)

**3E1-36** Development of new dumbbell shaped decoy nucleic acid containing the C-5 trisamine modified nucleoside. (Gunma University) MOTEGI, Yutaka; MORIGUCHI, Tomohisa; SHINOZUKA, Kazuo; INOUE, Yusuke; MATSUTA, Tsuyoshi; SAITO, Chinatsu

- 3E1-37** Synthesis and photophysical properties of novel fluorescent 8-aza-7-deazapurine nucleosides (Nihon Univ.) SUZUKI, Azusa; OKADA, Yuji; HONDA, Kaori; SAITO, Isao; SAITO, Yoshio
- 3E1-38** The function of artificial oligodeoxynucleotides possessing acetylene group at phosphate unit (Graduate School of Engineering, University of Kyoto) ANDO, Yuichiro; NISHIMOTO, Sei-ichi; TANABE, Kazuhito
- 3E1-39** Synthesis and base recognition abilities of triplex forming oligonucleotides containing 4-(2-guanidoethyl)pyrimidine derivatives (Sch. Biosci. Biotech., Tokyo Tech) ITO, Yu; OHKUBO, Akihiro; YAMADA, Kenji; YOSHIMURA, Kiichi; KANAMORI, Takashi; SEIO, Kohji; SEKINE, Mitsuo
- 3E1-40\*** Synthesis and properties of triplex forming oligonucleotides for four base pairs recognition (Tokyo Institute of Technology) YAMADA, Kenji; OHKUBO, Akihiro; ITO, Yu; YOSHIMURA, Kiichi; KANAMORI, Takashi; SEIO, Kohji; SEKINE, Mitsuo

Chair: NAGATSUGI, Fumi (16 : 00~16 : 50)

- \* 15:50-16:00: interval for laptop PC connection.(3E1-43, 3E1-44, 3E1-46, 3E1-47)
- 3E1-43** Chemical synthesis of U1snRNA containing trimethylguanosine cap analogs (Sch. Biosci. Biotech., Tokyo Tech) SUZUKI, Makoto; OHKUBO, Akihiro; KANAMORI, Takashi; SEIO, Kohji; SEKINE, Mitsuo
- 3E1-44\*** Stereocontrolled solid-phase synthesis of PO/PS chimeric oligoribonucleotides by using 2'-O-CEM-protected oxazaphospholidine monomers (Univ. of Tokyo; Frontier Sciences; JST-CREST; National Cancer Center Research Institute) NUKAGA, Yohei; TAKESHITA, Fumitaka; OCHIYA, Takahiro; WADA, Takeshi
- 3E1-46** A new method for chemical synthesis of RNA using phthalimido-methoxymethyl group (Grad. Sch. Frontier Sci., The Univ. of Tokyo) NAKANO, Kouhei; ARAI, Kouichirou; UCHIYAMA, Naoki; WADA, Takeshi
- 3E1-47** Design and Synthesis of Triazole-linked RNA (Tohoku University) YAMAZAKI, Naomi; FUJINO, Tomoko; ENDO, Kenta; ISOBE, Hiroyuki

Chair: SEIO, Kohji (17 : 00~17 : 40)

- \* 16:50-17:00: interval for laptop PC connection.(3E1-49, 3E1-50, 3E1-51, 3E1-52)
- 3E1-49** Design and Synthesis of Triazolium-linked DNA as a Water-soluble Oligonucleotide (Tohoku University) FUJINO, Tomoko; OKADA, Koudai; MIYAUCHI, Yusuke; ISOBE, Hiroyuki
- 3E1-50** Effect of chemical modification for peptide nucleic acid on its mismatch discrimination (Univ. of Osaka; The Institute for Scientific and Industrial Research) HAYASHI, Tenko; KAIHATSU, Kunihiro; KATO, Nobuo
- 3E1-51** Quantitative analysis of DNA local structures by 19F NMR using 19F-labeled oligonucleotide (Grad. Sch. Eng., Kyoto Univ.) TSUDA, Takuya; NISHIMOTO, Sei-ichi; TANABE, Kazuhito
- 3E1-52** Synthesis and evaluation of a new class of artificial DNA based on alkynyl C-nucleosides with four types of nonnatural nucleobases having triple hydrogen-bonding sites (Graduate School of Pharmaceutical Sciences, Univ. of Toyama) SHIRATO, Wataru; CHIBA, Junya; INOUE, Masahiko

Chair: INOUE, Masahiko (17 : 50~18 : 40)

- \* 17:40-17:50: interval for laptop PC connection.(3E1-54, 3E1-55, 3E1-57, 3E1-58)
- 3E1-54** Synthesis and fluorescent properties of dU having imidazolinone derivative. (Tokyo Institute of Technology) KANAMORI, Takashi; TAKAMURA, Akihiro; OHKUBO, Akihiro; SEKINE, Mitsuo; SEIO, Kohji
- 3E1-55\*** Synthesis and properties of a stable analogue of the cytosine-containing cyclobutane pyrimidine dimer (Osaka Univ.) YAMAMOTO, Junpei; OYAMA, Tomoko; KUNISHI, Tomohiro; IWAI, Shigenori
- 3E1-57** Synthesis and photochromic properties of GFP-inspired nucleoside isosteres(1) (Kyoto inst. of Tech.) YAMAMOTO, Isao; SAKATA, Yuya; YAMAYOSHI, Asako; MURAKAMI, Akira; KOBORI, Akio
- 3E1-58** Synthesis and photochromic properties of GFP-inspired nucleoside isosteres(2) (Kyoto Inst. of Tech.) KOBORI, Akio; SAKATA, Yuya; YAMAMOTO, Isao; YAMAYOSHI, Asako; MURAKAMI, Akira

## Monday, March 25, AM

Chair: SUGIYAMA, Hiroshi (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4E1-01, 4E1-03, 4E1-04, 4E1-06)
- 4E1-01\*** Development of high-throughput method for identification of novel G-quadruplex based upon fluorescent G-quadruplex ligand and a DNA microarray (Tokyo Univ of Agri and Tech (TUAT)) IIDA, Keisuke; NAKAMURA, Takahiro; YOSHIDA, Wataru; YOKOYAMA, Tomomi; TERA, Masayuki; NAKABAYASHI, Kazuhiko; SEIMIYA, Hiroyuki; HATA, Kenichiro; IKEBUKURO, Kazunori; NAGASAWA, Kazuo
- 4E1-03** Interaction analysis between small molecules and G-quadruplex forming motifs observed from CpG island (Tokyo Univ of Agri and Tech (TUAT)) MAJIMA, Satoki; IIDA, Keisuke; NAKAMURA, Takahiro; YOSHIDA, Wataru; TERA, Masayuki; IKEBUKURO, Kazunori; NAGASAWA, Kazuo
- 4E1-04\*** Screening of a small molecule that modulate RNA G-quadruplex and

- evaluation of function (iCeMS, Kyoto Univ.; ICR, Kyoto Univ.) KATSUDA, Yousuke; UESUGI, Motonari
- 4E1-06** Identification of G-quadruplex RNA binding specificities of mutated TLS (Shizuoka Univ.) SHITARA, Takumi; TAKAHAMA, Kentaro; OYOSHI, Takanori

Chair: NAGASAWA, Kazuo (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(4E1-08, 4E1-09, 4E1-10, 4E1-12)
- 4E1-08** Synthesis of Tandem Pyrrole-Imidazole Polyamide Binding to Human Telomeres Specifically (Graduate School of Science, Kyoto University; Chemical Biology Lab.) KAWAMOTO, Yusuke; BANDO, Toshikazu; MAESHIMA, Kazuhiro; SUGIYAMA, Hiroshi
- 4E1-09** Increase of c-Myc expression by inhibition of G-quadruplex by PI-polyamide (Dept. of Chem. Kyoto Univ.) TAKENAKA, Tomohiro; MORINAGA, Hironobu; BANDO, Toshikazu; SUGIYAMA, Hiroshi
- 4E1-10\*** Unfolding of Quadruplex DNA by Budding Yeast Telomeric DNA Binding Protein Cdc13 (Tokyo Univ. of Sci.) IMAZAKI, Mari; KUBO, Shutaro; TORIGOE, Hidetaka
- 4E1-12\*** Identification of nucleic binding specificities and biological functions of TLS in telomere (Shizuoka Univ.) TAKAHAMA, Kentaro; KUROKAWA, Riki; SAYAMA, Kazutoshi; OYOSHI, Takanori

Chair: OYOSHI, Takanori (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(4E1-15, 4E1-17, 4E1-18, 4E1-20)
- 4E1-15\*** Improvement of riboregulators using RNA binding protein (Tokyo Univ. of Agric. & Technol.) ABE, Koichi; SAKAI, Yuta; NAKASHIMA, Saki; ARAKI, Masataka; SODE, Koji; IKEBUKURO, Kazunori
- 4E1-17** Loop engineering of riboregulators to improve their function (Tokyo Univ. of Agric. & Technol.) ABE, Koichi; KAWAI, Sumiya; SAKAI, Yuta; NAKASHIMA, Saki; ARAKI, Masataka; SODE, Koji; IKEBUKURO, Kazunori
- 4E1-18\*** Regulation of gene expression by photoreactive antisense oligonucleotide containing carbazole derivative. (JAIST) SHIGENO, Atsuo; SAKAMOTO, Takashi; FUJIMOTO, Kenzo
- 4E1-20** Photochemical regulated expression of GFP by sequence selective RNA photocrosslinking (Sch. Mat. Sci., JAIST) OHTAKI, Yu-ichi; SHIGENO, Atsuo; SAKAMOTO, Takashi; FUJIMOTO, Kenzo

## Monday, March 25, PM

Chair: OZAKI, Hiroaki (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(4E1-28, 4E1-30, 4E1-31, 4E1-32, 4E1-33)
- 4E1-28\*** Study on FRET between fluorophores additionally tethered within DNA duplex (Graduate School of Engineering, Nagoya Univ.) KATO, Tomohiro; KASHIDA, Hiromu; KISHIDA, Hideo; YADA, Hiroyuki; OKAMOTO, Hiroshi; ASANUMA, Hiroyuki
- 4E1-30** Synthesis and evaluation of transmembrane amphiphilic DNA (ISIR, Osaka Univ.) MATSUZAKI, Koichi; SHIBATA, Tomonori; MAKISHI, Shingo; DOHNO, Chikara; NAKATANI, Kazuhiko
- 4E1-31** DNA conformational change induced by photoionizable Malachite Green polymer (Nara National College of Technology) OSHITA, Minami; UDA, Ryoko
- 4E1-32** Photoregulation of gene expression by visible light with T7 promoter introducing modified azobenzene (Grad. Sch. Eng., Nagoya Univ.) TAKAGI, Toshiki; NISHIOKA, Hidenori; KAMIYA, Yukiko; LIANG, Xingguo; ASANUMA, Hiroyuki
- 4E1-33** Transcriptome-wide identification of N6-methyladenosines in sporulating *Saccharomyces cerevisiae* (Univ. of Tokyo) KUDO, Ken-ichi; OHIRA, Takayuki; TAKEUCHI, Yuki; SUZUKI, Takeo; SUZUKI, Tsutomu

Chair: KAMIYA, Yukiko (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(4E1-35, 4E1-37, 4E1-38, 4E1-39, 4E1-40)
- 4E1-35\*** Acceleration of Rolling Circle DNA amplification by use of microwave heating (Tokyo Univ. of Science; Saitama Univ.; Kyushu Inst. of Tech.) YOSHIMURA, Takeo; SUZUKI, Takamasa; NEMOTO, Naoto; MINEKI, Shigeru; OHUCHI, Shokichi
- 4E1-37** Gene regulation by crosslink forming oligonucleotides (Tohoku university; IMRAM) HAGIHARA, Shinya; KUSANO, Shuhei; IDA, Yuta; IWAMOTO, Nao; NAGATSUGI, Fumi
- 4E1-38** Development of novel crosslinkable molecules fixed conformation (IMRAM, Tohoku Univ.) IDA, Yuta; KUSANO, Shuhei; IWAMOTO, Nao; HGIHARA, Shinya; NAGATSUGI, Fumi
- 4E1-39** Development of novel fluorochrome binding to RNA. (ISIR, Osaka Univ.) TSUDA, Tetsuya; UMEMOTO, Shiori; HUKUZUMI, Takeo; NAKATANI, Kazuhiko
- 4E1-40** Enzymatic synthesis and properties of siRNA bearing a functional group at the 3'-end (Gunma University, Graduate school of Engineering) MASUDA, Tomokazu; OZAKI, Hiroaki

Chair: MIYOSHI, Daisuke (15 : 50~16 : 40)

- \* 15:40-15:50: interval for laptop PC connection.(4E1-42, 4E1-43, 4E1-44,

4E1-45, 4E1-46)

- 4E1-42** Evaluation of viscoelastic properties of various DNA structures (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) NAGAO, Yasutaka; FURUSAWA, Hiroyuki; OKAHATA, Yoshio
- 4E1-43** Observation of conformational switching of riboswitch by using a quartz crystal microbalance (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) HARUHARA, Yumiko; FURUSAWA, Hiroyuki; OKAHATA, Yoshio
- 4E1-44** Observation of tRNA aminoacylation mediated by aminoacyl-tRNA synthetase on a quartz crystal microbalance (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) OKANOYA, Yuta; YOSHIMINE, Hiroshi; FURUSAWA, Hiroyuki; OKAHATA, Yoshio
- 4E1-45** Fluorescent imaging of RISC in cell by use of siRNA involving a dye pair in cell (Grad. Sch. Eng., Nagoya Univ.) KAMIYA, Yukiko; ITO, Anna; TAKAI, Junya; URUSHIHARA, Masaaki; ITO, Hiroshi; KASHIDA, Hiromu; LIANG, Xingguo; ASANUMA, Hiroyuki
- 4E1-46** Improvement of stability and activity of siRNA involving acyclic scaffold (Sch. Eng., Nagoya Univ.) TAKAI, Junya; MURAYAMA, Keiji; ITO, Hiroshi; KASHIDA, Hiromu; KAMIYA, Yukiko; ASANUMA, Hiroyuki

## Room E2

### FOREST HOUSE F202

## Biofunctional Chemistry ; Biotechnology

Friday, March 22, AM

Chair: MATSUO, Takashi (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(1E2-01, 1E2-02, 1E2-04, 1E2-05)
- 1E2-01** Structure-based Improvement of Tyrosinase Activity (Graduate School of Engineering, Osaka University) OBA, Takuro; YABUTA, Shintaro; FUJIEDA, Noubutaka; ITOH, Shinobu
- 1E2-02\*** Formation mechanism of dinuclear copper active site in tyrosinase (Graduate School of Engineering, Osaka University) FUJIEDA, Noubutaka; YABUTA, Shintaro; IKEDA, Takuya; ITOH, Shinobu
- 1E2-04** Reaction of 3Fe-4S cluster involved in nitrogenase transcriptional regulator VnfA with Nitric Oxide (Grad. Sch. Sci., Nagoya Univ., RCMS, Nagoya Univ.) MIURA, Yukio; YOSHIMITSU, Kyohei; NAKAJIMA, Hiroshi; WATANABE, Yoshihito
- 1E2-05\*** Conversion of wild-type cytochrome P450BM3 into a small alkane hydroxylase utilizing a dummy substrate (Grad. School of Sci. Nagoya Univ.) KAWAKAMI, Norifumi; SHOJI, Osami; WATANABE, Yoshihito
- Chair: NAKAMURA, Nobufumi (10 : 10 ~ 11 : 10)
- \* 10:00-10:10: interval for laptop PC connection.(1E2-08, 1E2-09, 1E2-10, 1E2-11, 1E2-12)
- 1E2-08** Direct Hydroxylation of Benzene by Tricking the Substrate Recognition of Cytochrome P450BM3 (Grad. School of Sci. Nagoya Univ) KUNIMATSU, Tatsuya; KAWAKAMI, Norifumi; SHOJI, Osami; WATANABE, Yoshihito
- 1E2-09** Biochemical properties of HupD, a heme-binding protein in the heme-uptake system of *Listeria monocytogenes* (Okazaki Inst. for Integ. Biosci, Osaka Univ.) OKAMOTO, Yasunori; HAYASHI, Takashi; SAWAI, Hitomi; AONO, Shigetoshi
- 1E2-10** The Regulation of Heme Degradation Activity by the Hydrogen Bond around Heme in Huz from *Vibrio cholerae* (Grad. School of Chem. Sci. and Eng., Hokkaido Univ.) SEKINE, Yukari; UCHIDA, Takeshi; MATSUI, Toshitaka; IKEDA-SAITO, Masao; ISHIMORI, Koichiro
- 1E2-11** Heme demetallation reaction without breaking heme (Division of Chemistry, School of Science, Hokkaido University) SASAKI, Miho; UCHIDA, Takeshi; ISHIMORI, Koichiro
- 1E2-12\*** Active Site Structure and Enzyme Activity of a Heme Degradation Enzyme from *Mycobacterium tuberculosis*, MhuD (Tohoku Univ.; Inst. of Multidisciplinary Res. for Adv. Materials) NAMBU, Shusuke; ONO, Yukari; MATSUI, Toshitaka; GOULDING, Celia; AKIYAMA, Kimio; TAKAHASHI, Satoshi; TSUMOTO, Kouhei; IKEDA-SAITO, Masao
- Chair: ITOH, Shinobu (11 : 20 ~ 12 : 20)
- \* 11:10-11:20: interval for laptop PC connection.(1E2-15, 1E2-16, 1E2-18, 1E2-19)
- 1E2-15** Unusual products of IsdG, a heme degrading enzyme from *Staphylococcus aureus* (Tohoku Univ.; Inst. Of Multidisciplinary Res. For Adv. Materials.) ONO, Yukari; NAMBU, Shusuke; MATSUI, Toshitaka; GOULDING, Celia; TAKAHASHI, Satoshi; TSUMOTO, Kouhei; IKEDA-SAITO, Masao
- 1E2-16\*** Biochemical analyses of Hcg proteins involved in biosynthesis of the metal center of [Fe]-hydrogenase (Max Planck Institute for terrestrial microbiology) FUJISHIRO, Takashi; TAMURA, Haruka; SCHICK, Michael; KAHNT, Joerg; XIE, Xiulan; ERMLER, Ulrich; SHIMA, Seigo

- 1E2-18** Structure and Properties of a Blue Copper Protein, Pseudoazurin His6Val Mutant (Ibaraki Univ.) SAKAIRI, Tsuyoshi; UNNO, Masaki; KOHZUMA, Takamitsu
- 1E2-19\*** Electron transfer reaction of a novel sugar dehydrogenase from basidiomycete *Coprinoopsis cinerea* (Tokyo University of Agriculture and Technology) TAKEDA, Kouta; ISHIDA, Takuya; MATUMURA, Hiroto; YOSHIDA, Makoto; IGARASHI, Kiyohiko; SAMEJIMA, Masahiro; NAKAMURA, Nobuhumi; OHNO, Hiroyuki

Friday, March 22, PM

Chair: HIROTA, Shun (13 : 30 ~ 14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(1E2-28, 1E2-31, 1E2-32)
- 1E2-28** Young Scholar Lectures of CSJ Development of Biocatalysts Utilizing Substrate Misrecognition of Cytochrome P450s (Grad. Sch. Sci., Nagoya Univ.) Shoji, Osami
- 1E2-31** Cell-based evaluation of guanidino group-containing farnesyltransferase inhibitors designed for disrupting K-Ras protein-protein interactions (ISIR, Osaka Univ.) TSUBAMOTO, Mai; KATO, Nobuo; OHKANDA, Junko
- 1E2-32\*** A multiple-resonance NMR chemical probe for the *in situ* screening of enzyme inhibitors (Kyushu Univ.; INAMORI frontier research center) UEKI, Ryosuke; NONAKA, Hiroshi; SANDO, Shinsuke

Chair: FUJIEDA, Nobutaka (17 : 00 ~ 18 : 00)

- \* 16:50-17:00: interval for laptop PC connection.(1E2-49, 1E2-51, 1E2-52, 1E2-53, 1E2-54)
- 1E2-49\*** Construction of a pyrene monomer/excimer emissions switching system based on conformational change of adenylate kinase. (Graduate School of Materials Science, Nara Institute of Science and Technology (NAIST)) FUJII, Akira; MATSUO, Takashi; HIROTA, Shun
- 1E2-51** Effect of protein addition on paper sludge saccharification reaction with enzyme (Numazu National College of Technology) TANIGUCHI, Yuuki; TAKEGUCHI, Masayuki; HASUMI, Fumihiko
- 1E2-52** AFM Force Mapping of Gb3 Ceramide in Lipid membrane by Verotoxin (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) KOIZUMI, Shohei; MORI, Toshiaki; OKAHATA, Yoshio
- 1E2-53** Direct observation of binding behavior and decomposition behavior of chitinase onto chitin film (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) SHISHIDO, Keisuke; MORI, Toshiaki; OKAHATA, Yoshio
- 1E2-54** Single molecular dynamics Analysis of Glycosylations Catalyzed by Glycogen Phosphorylase by Using Force-curve Measurements (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) MURAKAMI, Tomoya; MORI, Toshiaki; OKAHATA, Yoshio

Saturday, March 23, AM

Chair: KAMACHI, Toshiaki (9 : 00 ~ 9 : 30)

- \* 8:50-9:00: interval for laptop PC connection.(2E2-01, 2E2-03)
- 2E2-01\*** A reconstituted natural product biosynthesis system reveals a unique catalytic activity of a posttranslational heterocyclase (Grad. School of Science, Univ. of Tokyo; PRESTO, JST; Grad. School of Engineering, Univ. of Tokyo) GOTO, Yuki; TSUNODA, Shotaro; ITO, Yumi; KATO, Yasuharu; SUGA, Hiroaki
- 2E2-03** Biosynthesis of artificial azoline compounds by an engineered posttranslational heterocyclase (Grad. School of Science, Univ. of Tokyo; PRESTO, JST) TSUNODA, Shotaro; GOTO, Yuki; SUGA, Hiroaki

Chair: TAKAHASHI, Satoshi (9 : 40 ~ 10 : 40)

- \* 9:30-9:40: interval for laptop PC connection.(2E2-05, 2E2-06, 2E2-07, 2E2-08, 2E2-09, 2E2-10)
- 2E2-05** Oligomer formation of zinc-substituted cytochrome *c* by domain swapping (Graduate School of Materials Science, Nara Institute of Science and Technology (NAIST)) NAGAO, Satoshi; TOMIOKA, Yuya; MOROI, Maki; HIROTA, Shun
- 2E2-06** Synthesis and Characteristics of Hemoglobin-Albumin Cluster Bound Bilirubin (Faculty of Sci. and Eng., Chuo University) HOSAKA, Hitomi; TOMITA, Daiki; KOMATSU, Teruyuki
- 2E2-07** Synthesis of Hemoglobin-Albumin Cluster Bound Flavon and Heme Reduction. (Faculty of Sci. and Eng., Chuo University) DAIJIMA, Yuta; TOMITA, Daiki; KOMATSU, Teruyuki
- 2E2-08** Salt Effect on Dimeric Horse Cytochrome *c* (Nara Institute of Science and Technology, Graduate School of Materials Science) RYUZAKI, Michiko; YAMANAKA, Masaru; HIROTA, Shun
- 2E2-09** Polymerization of *Aquifex aeolicus* Cytochrome *c*<sub>555</sub> (Nara Institute of Science and Technology, Graduate School of Materials Science) YAMANAKA, Masaru; HADA, Masao; HIROTA, Shun
- 2E2-10** Characterization of axial ligand mutation in cytochrome *c*<sub>3</sub> from *Desulfovibrio vulgaris* (Department Bioengineering, Tokyo Institute of Technology) ITO, Chikara; NAKAZAWA, Yu; SUGIMOTO, Taro; TABATA, Kenji; KAMACHI, Toshiaki

Chair: KIMURA, Takayoshi (10 : 50 ~ 11 : 50)

- \* 10:40-10:50: interval for laptop PC connection.(2E2-12, 2E2-13, 2E2-14, 2E2-15, 2E2-16, 2E2-17)

- 2E2-12** Relationship between the structure of the heme acquisition protein from *Pseudomonas aeruginosa* and the transportation of heme (Grad. School of Sci. Nagoya Univ.) TERADA, Mitsuyoshi; SHOJI, Osami; OZAKI, Shin-ich; WATANABE, Yoshihito
- 2E2-13** Oligomerization of Cytochrome *b<sub>562</sub>* from *Escherichia coli* and Its Dimeric Structure and Function (Nara Institute of Science and Technology, Graduate School of Materials Science) KURIBAYASHI, Mai; NAGAO, Satoshi; HIROTA, Shun
- 2E2-14** Human Cytochrome *c* Oligomerization Studied by Its Met80Ala Mutant (Nara Institute of Science and Technology, Graduate School of Materials Science) YAMASHIRO, Nobuhiro; WANG, Zhonghua; NAGAO, Satoshi; HIROTA, Shun
- 2E2-15** A spectroscopic study of *Rhodnius prolixus*  $\alpha$ -glucosidase with a hemozoin formation activity (Osaka University) KAKU, Shotaro; NAKATANI, Keisuke; ISIKAWA, Haruto; MIZUTANI, Yasuhisa
- 2E2-16** Structure and Physicochemical Property of Supramolecular Hemoprotein Assembly toward Pigment Organization (Osaka Univ.) FUJIMAKI, Nishiki; OOHORA, Koji; HAYASHI, Takashi
- 2E2-17** DNA-Hemoprotein Complexation using Artificial Heme Tethering Polyamine Interface and Cross-linked Effect by Aldehyde-dextran (Osaka Univ.) OSHITA, Kaori; KOGA, Satoe; ONODA, Akira; HAYASHI, Takashi

### Saturday, March 23, PM

Chair: TSUGAWA, Wakako (13 : 00~14 : 00)

- \* 12:50-13:00: interval for laptop PC connection.(2E2-25, 2E2-26, 2E2-28, 2E2-30)
- 2E2-25** Construction and physicochemical properties of thermally induced hemoprotein supramolecular assembly (Osaka Univ.) ONUMA, Yoshitaka; OOHORA, Koji; HAYASHI, Takashi
- 2E2-26\*** Structural dynamics of HemAT associated with oxygen dissociation: Probed by time-resolved resonance Raman spectroscopy (Grad. Sch. Sci., Osaka Univ.) ISHIKAWA, Haruto; YOSHIDA, Yuu; AONO, Shigetoshi; MIZUTANI, Yasuhisa
- 2E2-28\*** pH Dependence of the Protein Conformation and Spin-State of Cytochrome *c* from *Alcaligenes xylosoxidans* (Univ. of Ibaraki; Institute of Applied Beam) TAKASHINA, Akiko; TIEDEMANN, Michael; UNNO, Masaki; STILLMAN, Martin; KOHZUMA, Takamitsu
- 2E2-30** Mechanism of denaturation and aggregate formation of cytochrome *c* in dioxane aqueous solutions (Kinki Univ.; Lab. Physical chemistry) INOMATA, Takashi; KAMIYAMA, Tadashi; KIMURA, Takayoshi
- Chair: KOBATAKE, Eiry (14 : 10~15 : 10)
- \* 14:00-14:10: interval for laptop PC connection.(2E2-32, 2E2-33, 2E2-34, 2E2-35, 2E2-36, 2E2-37)
- 2E2-32** Molecular recognition of a copper chaperone protein regulated by the formation of a disulfide bond (Dept. of Chem., Keio Univ.) HONDA, Kazuki; FURUKAWA, Yoshiaki
- 2E2-33** Understanding an intracellular transport pathway of copper ions by its reconstitution in a test tube (Fac. Sci. Tech., Keio Univ.) SHIMIZU, Masahiro; FURUKAWA, Yoshiaki
- 2E2-34** Transforming a de novo designed blue copper protein into a red copper protein (Nagoya Inst. of Technology) KAMEI, Misato; SHIGA, Daigo; TANAKA, Toshiki
- 2E2-35** In vivo synthesis of polyhedra crystals immobilizing metalloproteins. (Grad. Sch. Biosci. and Biotech. Tokyo Tech. Kyoto Inst. Tech.) NEGISHI, Hashiru; ABE, Satoshi; MORI, Hajime; UENO, Takafumi
- 2E2-36** The effect of Lanthanide ion to fibrilization of alpha-synuclein (Tokyo Univ. Agric. & Technol.) ABE, Koichi; LEE, Somin; HARADA, Ryuichi; UCHIKURA, Yuki; IKEBUKURO, Kazunori; SODE, Koji
- 2E2-37** A new mechanism regulating enzymatic activation of Cu<sub>2</sub>Zn-superoxidodismutase by its copper chaperone (Fac. Sci. Tech., Keio Univ.) KATO, Saki; FURUKAWA, Yoshiaki

Chair: SERA, Takashi (15 : 20~16 : 20)

- \* 15:10-15:20: interval for laptop PC connection.(2E2-39, 2E2-40, 2E2-41, 2E2-43)
- 2E2-39** Inhibition of collagen production by cisplatin-DMSO complex and its molecular mechanism (Waseda Univ.) ZENDA, Miyu
- 2E2-40** Design of self-assembling protein for three-dimensional cell culture (TokyoTech) MIZUGUCHI, Yoshinori; MIE, Masayasu; KOBATAKE, Eiry
- 2E2-41\*** Precise design of protein monomers for the construction of ordered structures by a bottom-up approach (Inst. of Medical Sci., Univ. of Tokyo) MATSUNAGA, Ryo; YANAKA, Saeko; TSUMOTO, Kouhei
- 2E2-43\*** SCREENING OF PEPTIDES DISTINGUISHING PROTEIN QUATERNARY STRUCTURES BY A PHAGE DISPLAY TECHNIQUE (Dept. of Chem., Keio Univ.) NOMURA, Takao; FURUKAWA, Yoshiaki

Chair: TSUMOTO, Kouhei (16 : 30~17 : 30)

- \* 16:20-16:30: interval for laptop PC connection.(2E2-46, 2E2-47, 2E2-48, 2E2-49, 2E2-50, 2E2-51)
- 2E2-46** Evaluation of mistic and AcGFP as fusion protein partners for functional expression of eukaryotic integral membrane proteins in *E.coli*

- (Meiji Univ.) OKUHARA, Tomoki; TAKIGUCHI, Ayano; NAGAI, Manabu; IKEDA, Eiji; OZAKI, Hiroshi
- 2E2-47** Expression and purification of human Alg13 and Alg14 in *Escherichia coli* (Meiji Univ.) TAKIGUCHI, Ayano; OKUHARA, Tomoki; NAGAI, Manabu; IKEDA, Eiji; OZAKI, Hiroshi
- 2E2-48** Expression of the h-GalNac-T1 in *B.subtilis* and characterization of the product (Meiji Univ.) IKEDA, Eiji; NAGAI, Manabu; OKUHARA, Tomoki; TAKIGUCHI, Ayano; OZAKI, Hiroshi
- 2E2-49** DNA cleavage in mammalian cells by sandwiched zinc finger nucleases (Okayama Univ.) MORI, Tomoaki; SERA, Takashi
- 2E2-50** Improvement of the substrate specificity of sandwiched zinc finger nucleases (Okayama Univ.) MORI, Tomoaki; KITA, Yuta; SHINOMIYA, Kazuki; AOYAMA, Yasuhiro; SERA, Takashi
- 2E2-51** Preparation and characterization of chimeric transducers of Htr8 and HemAT from extremely halophilic archaeon *Haloarcula japonica* (Dept. Bioeng., Tokyo Tech) MATSUBARA, Toshitaka; TADIKARA, Teppei; YATSUNAMI, Rie; FUKUI, Toshiaki; NAKAMURA, Satoshi

### Sunday, March 24, AM

Chair: TAKAHASHI, Tsuyoshi (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3E2-01, 3E2-02, 3E2-03, 3E2-04, 3E2-06)
- 3E2-01** Analysis for interaction of helical peptides with DNAs by using quartz crystal microbalance (Graduate School of Pharmaceutical Sciences, Univ. of Toyama) SAKAGUCHI, Ikumi; NOGAMI, Kagayaki; FUJIMOTO, Kazuhisa; INOUE, Masahiko
- 3E2-02** Evaluation for interaction of side chain cross-linked helical peptides with anti-apoptotic protein Bcl-xL (Graduate School of Pharmaceutical Sciences, Univ. of Toyama) NOGAMI, Kagayaki; TAKAHAMA, Kentaro; FUJIMOTO, Kazuhisa; OYOSHI, Takanori; INOUE, Masahiko
- 3E2-03** Design of highly reactive peptide tag-probe pair for selective covalent labeling of cell proteins (1) (Graduate school of Pharmaceutical Sciences, Kyushu University) KIDO, Munetsugu; TABATA, Shigekazu; HAMACHI, Itaru; OJIDA, Akio
- 3E2-04\*** Design of a Highly Reactive Peptide Tag-Probe Pair for Selective Covalent Labeling of Cell Proteins (2) (Kyushu Univ. Graduate School of Pharmaceutical Sciences) TABATA, Shigekazu; KIDO, Munetsugu; HAMACHI, Itaru; OJIDA, Akio
- 3E2-06** Detection of protease activity using fluorescence recovery from concentration quenching (Graduate School of Life Science and Systems Engineering, Kyushu Institute of Technology) SATO, Daisuke; HATTORI, Tsukasa; BLANQUET, Ella; KATO, Tamaki
- Chair: OJIDA, Akio (10 : 10~11 : 10)
- \* 10:00-10:10: interval for laptop PC connection.(3E2-08, 3E2-09, 3E2-10, 3E2-11, 3E2-13)
- 3E2-08** Fluorescence measurement of enzyme activity in urine using microtube as reaction vessel (Graduate School of Life Science and Systems Engineering, Kyushu Institute of Technology) KOGA, Naoya; NISHINO, Norikazu; KATO, Tamaki
- 3E2-09** Design of S-peptide analogues derived from ribonuclease A for constructing a detection system of molecular interaction (Dept. of Eng., Gunma Univ.) SAITO, Akinori; TAKAHASHI, Tsuyoshi
- 3E2-10** Enzyme activity detection system using liposomes and functional antimicrobial peptides (Graduate School of Engineering, Osaka Univ.) KASHIBE, Masayoshi; MIZUKAMI, Shin; KIKUCHI, Kazuya
- 3E2-11\*** Analysis of regulation of gene expression involving translation release factor (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) TAKAHASHI, Shuntaro; HIROSE, Atsushi; OKAHATA, Yoshio
- 3E2-13** Analysis of translation rate of rare-codon cluster on mRNA using quartz-crystal microbalance (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) HIROSE, Atsushi; TAKAHASHI, Shuntaro; OKAHATA, Yoshio

Chair: MATSUURA, Kazunori (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(3E2-15, 3E2-17, 3E2-18, 3E2-19)
- 3E2-15\*** Effective Formation of Functionalized Nanowires Based on Control of Amyloid Self-Assembly (Hokkaido Univ.; Dept. of Chem.) SAKAI, Hiroki; WATANABE, Ken; CHUMAN, Yoshiro; WYTENBACH, Thomas; BOWERS, Michael T.; UOSAKI, Kohei; SAKGUCHI, Kazuyasu
- 3E2-17** Amyloid fibrillation by two types of peptides derived from tau (Institute of advanced energy, Kyoto Univ. and Univ. of Fukui Faculty of Medical Science) BABA, Ayumi; INOUE, Masahumi; KONNO, Takashi; NAKATA, Eiji; MORII, Takashi
- 3E2-18** Sequence-dependent on Cyclic Peptide Nanotube Formation (Graduate School of Life Science and Systems Engineering, Kyushu Institute of Technology) WANG, Mengnan; YAMAMOTO, Shotaro; WU, Zhe; KATO, Tamaki
- 3E2-19\*** Construction and characterization of mesoscaled assemblies composed of filamentous viruses and gold nano particles in mesoscale (Tokyo Institute of Technology) SAWADA, Toshiki; SERIZAWA, Takeshi

Sunday, March 24, PM

Chair: TOMIZAKI, Kin-Ya (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(3E2-28, 3E2-29, 3E2-30, 3E2-31, 3E2-33)
- 3E2-28** Control of cell growth by polymer affinity peptide nanofiber (Kyoto Institute of Technology) KUMO, Sayaka; TSUCHIYA, Nobuhiko; TANAKA, Naoki
- 3E2-29** Preparation and characterization of the GFP nanofiber bearing the functional peptides (Nagoya Inst. of Tech.) OKIYAMA, Naoya; MIZUNO, Toshihisa; OTA, Eriko; SUMINO, Ayumi; NOJI, Tomoyasu; DEWA, Takehisa; OKU, Jun-ichi; TANAKA, Tosiki; SUGIYASU, Kazunori; TAKEUCHI, Masayuki
- 3E2-30** Solubilization of membrane proteins by the PG-surfactants having the functional molecules (Nagoya inst. of Tech.) KOEDA, Shuhei; UMEZAKI, Katsunari; MIZUNO, Toshihisa; NOJI, Tomoyasu; DEWA, Takehisa; TANAKA, Toshiki; NANGO, Mamoru; SUGIYASU, Kazunori; TAKEUCHI, Masayuki
- 3E2-31\*** Characterization of bilayer formation properties of the intramolecular-bridged PG-surfactants and inclusion properties of membrane proteins in their-forming bilayer membranes (Nagoya Inst. of Tech.) UMEZAKI, Katsunari; KOEDA, Shuhei; MIZUNO, Toshihisa; SUMINO, Ayumi; DEWA, Takehisa; TANAKA, Tosiki; NANGO, Mamoru; SUGIYASU, Kazunori; TAKEUCHI, Masayuki
- 3E2-33** Synthesis and Characterization of C-terminal capped viral  $\beta$ -Annulus Peptide (Tottori University) FUJITA, Seiya; MATSUURA, Kazunori

Chair: TANAKA, Naoki (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(3E2-35, 3E2-36, 3E2-37, 3E2-38, 3E2-39)
- 3E2-35** Synthesis and Characterization of Human Serum Albumin conjugated  $\beta$ -Annulus Peptide (Tottori University) HONJO, Takahide; MATSUURA, Kazunori
- 3E2-36** Synthesis and self-assembly of B-strand peptide dimers connected with a variety of alkyl linkers. (Department of Materials Chemistry, Ryukoku University) TANAKA, Atsushi; KUROSAWA, Takahiro; IMAI, Takahito; TOMIZAKI, Kin-ya
- 3E2-37** Synthesis and alignment of ZnSe-ferritins along self-assembled peptide nanoarchitectures (Department of Materials Chemistry, Ryukoku University) KONISHI, Tatsuya; IMAI, Takahito; TOMIZAKI, Kin-ya
- 3E2-38** Oxidative folding of hen egg white lysozyme by using a water-soluble selenoxide reagent with high disulfide formation ability. (Tokai University) SHINOZAKI, Reina; ARAI, Kenta; IWAOKA, Michio
- 3E2-39\*** Rational design of serum albumin binding protein derived from human by the grafting of contact residues (Graduate School of Frontier Sci., Univ. of Tokyo) OSHIRO, Satoshi; HONDA, Shinya

Chair: HOHSAKA, Takahiro (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(3E2-42, 3E2-44, 3E2-46, 3E2-47)
- 3E2-42\*** Engineered proteinA ligand using combinatorial histidine scanning for the affinity purification of antibody (National Institute of Advanced Industrial Science and Technology) TSUKAMOTO, Masayuki; OOISHI, Ayako; WATANABE, Hideki; HONDA, Shinya
- 3E2-44\*** Controlling hemolytic activity of pore-forming toxin alpha-hemolysin by chemically-modified functional molecules. (Tohoku Univ., IMRAM) UI, Mihoko; HARIMA, Kosuke; TANAKA, Yoshikazu; TAKEI, Toshiaki; TSUMOTO, Kouhei; KINBARA, Kazushi
- 3E2-46** control of polyglutamine (polyQ)-induced cytotoxicity using fluorescent proteins that mimic polyQ structures (Dept. of Eng., Gunma Univ.) OSAWA, Saki; KOKIDO, Yuzuru; MIHARA, Hisakazu; TAKAHASHI, Tsuyoshi
- 3E2-47** Construction of monoclonal antibodies that recognize fluorescent proteins presenting amyloid structures (ASRLD Unit, Gunma Univ.) TAKAHASHI, Tsuyoshi; TERAWAKI, Naomi ; OSAWA, Saki

Chair: OKAMOTO, Akimitsu (17 : 00~17 : 40)

- \* 16:50-17:00: interval for laptop PC connection.(3E2-49, 3E2-51)
- 3E2-49\*** Novel Methods for Site-Specific PEGylation of Proteins Using Nonnatural Amino Acid Mutagenesis (School of Materials Science, JAIST) WATANABE, Takayoshi; YAMAGUCHI, Atsushi; SHIRAGA, Kaori; HOHSAKA, Takahiro
- 3E2-51\*** Understanding the molecular mechanism of mammalian circadian clock (RIKEN) SHINOHARA, Yuta; ODE, Koji; NAKAJIMA, Masato; KOYAMA, Yohei; UKAI, Hideki; MATSUMOTO, Katsuhiko; UEDA, Hiroki
- Chair: KINBARA, Kazushi (17 : 50~18 : 30)
- \* 17:40-17:50: interval for laptop PC connection.(3E2-54, 3E2-55, 3E2-56, 3E2-57)
- 3E2-54** Synthesis of double fluorescent-labeled single-chain antibody and detection of antigen by FRET and fluorescence quenching (School of Materials Science, JAIST) YOSHIKOSHI, Kensuke; HOHSAKA, Takahiro
- 3E2-55** Reactivity of catalytic antibody heavy chain JN1-2 for HA of

- influenza virus type A (Department of Applied Chemistry, Faculty of Engineering, Univ. of Oita. Research Promotion Institute. Univ. of Oita.) TAKEZOE, Ayaka; FUJIMOTO, Naoko; HIFUMI, Emi; UDA, Taizou
- 3E2-56** Design of a cationic dendrimer for the formation of nano-particle of antigenic protein. (Kyoto Institute of Technology) KAMEYAMA, Rina; ICHIKAWA, Masahiro; TANAKA, Naoki
- 3E2-57** Detection of posttranslational modification hydroxylysine in protein (Univ. of Tokyo; Research Center for Advanced Science and Technology) SAKAMOTO, Ryosuke; HAYASHI, Gosuke; OKAMOTO, Akimitsu

Monday, March 25, AM

Chair: FURUSAWA, Hiroyuki (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4E2-01, 4E2-02, 4E2-04, 4E2-06)
- 4E2-01** Chemical modification of protein crystal surface toward artificial extracellular matrix (Grad. Sch. of Kyoto Univ. ; iCeMS, Kyoto Univ.) TOKURA, Yu; TUBE, Hiroyasu; ABE, Satoshi; KITAGAWA, Susumu; UENO, Takahumi
- 4E2-02\*** In vivo Protein Crystallization Mechanism and Functionalization of the Crystals (Grad. Biosci. Biotech. Tokyo Tech.; WPI-iCeMS, Kyoto Univ.; Kyoto Inst. Tech.) ABE, Satoshi; MORONE, Nobuhiko; HOUSER, John; MORI, Hajime; UENO, Takafumi
- 4E2-04\*** Design of Gas-releasing Protein Crystals toward an Extracellular Matrix (iCeMS, Kyoto Univ., Grad. Sch. of Engineering, Kyoto Univ., Grad. Sch. of Biosci. and Biotech., Tokyo Inst. Tech.) TUBE, Hiroyasu; TOKURA, Yu; ABE, Satoshi; KITAGAWA, Susumu; UENO, Takafumi
- 4E2-06** Water-soluble fatty acid mimics bearing high affinity to fatty acid binding protein (Graduate School of Science, Osaka University) OTSUKA, Kohei; MATSUOKA, Shigeru; HIROSE, Mika; SATOU, Fuminori; MIZOHATA, Eiichi; SUGIYAMA, Shigeru; INOUE, Tsuyoshi; MURATA, Michio

Chair: OZAWA, Takeaki (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(4E2-08, 4E2-09, 4E2-10, 4E2-11, 4E2-13)
- 4E2-08** Direct measurement of interaction between signal transduction proteins by surface force measurement. (IMRAM, Tohoku Univ.) FUJIWARA, Hitomi; UMEMURA, Taizo; FUJITA, Masaya; KURIHARA, Kazuo
- 4E2-09** Electrochemical detection method of bacterial genome using zinc finger protein fused with glucose dehydrogenase (Tokyo Univ. of Agric. & Technol.) LEE, Jinhee; KEZUKA, Aki; TATSUMI, Atsuro; YOSHIDA, Wataru; ABE, Koichi; Ikebukuro, Kazunori
- 4E2-10** Observation of lipid-membrane fluidity in re-constructed lipid bilayer on DNA structures using total internal reflection fluorescence microscopy (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) TSUJI, Kentaro; FURUSAWA, Hiroyuki; OKAHATA, Yoshio
- 4E2-11\*** The mechanism of electron transfer reactions in protein disulfide-bond formation system from *E. coli* (Dept. Biomol. Engineering, Tokyo Inst. of Tech.) YAZAWA, Kenjiro; FURUSAWA, Hiroyuki; OKAHATA, Yoshio
- 4E2-13** Mapping of Light-Harvesting Pigment-Protein Complexes in Reconstituted Photosynthetic Membranes (OCARINA, Osaka City Univ.) SUGAI, Yuko; URAGAMI, Chiasa; HANJO, Kohei; NANGO, Mamoru; HASHIMOTO, Hideki

Chair: TERAZIMA, Masahide (11 : 20~12 : 00)

- \* 11:10-11:20: interval for laptop PC connection.(4E2-15, 4E2-17)
- 4E2-15\*** Development and application of a method to control protein activity with light (Univ. of Tokyo; School of Science) KATSURA, Yoshihiro; OZAWA, Takeaki
- 4E2-17\*** Construction and characterization of photosynthetic antenna assembly (Nagoya Inst. of Tech; JST/PRESTO; JST/CREST) DEWA, Takehisa; KOMORI, Daisuke; NOJI, Tomoyasu; SUMINO, Ayumi; NANGO, Mamoru

Monday, March 25, PM

Chair: UENO, Takafumi (13 : 10~14 : 10)

- \* 13:00-13:10: interval for laptop PC connection.(4E2-26, 4E2-27, 4E2-28, 4E2-30)
- 4E2-26** Kinetic Measurement of Photo-induced Reaction of UVR8 Revealed by Transient Grating Method (Department of Chemistry Graduate school of Science KyotoUniversity) MIYAMORI, Takaaki; NAKASONE, Yusuke; HITOMI, Kenichi; CHRISTIE, John M; GETZOFF, Elizabeth D; TERAZIMA, Masahide
- 4E2-27** Effects of macromolecular crowding on the reaction of phototropin 1 LOV2 domain (Kyoto Univ. ; Osaka Prefecture Univ.) YOSHITAKE, Tomoyuki; NAKASONE, Yusuke; TOYOOKA, Tsuguyoshi; ZIKIHARA, Kazunori; TOKUTOMI, Satoru; TERAZIMA, Masahide
- 4E2-28\*** high pressure transient lens study on the fluctuation of phototropin LOV2 domain (Grad. Sch. Sci., Kyoto Univ.) KUROI, Kunisato; SATO, Francielle; NAKASONE, Yusuke; ZIKIHARA, Kazunori; TOKUTOMI, Satoru; TERAZIMA, Masahide
- 4E2-30\*** Thermodynamic measurement of the structural fluctuation in the signaling state of phototropin (Kyoto Univ. ; Osaka Prefecture Univ.)

NAKASONE, Yusuke; ZIKIHARA, Kazunori; TOKUTOMI, Satoru; TERAZIMA, Masahide

Chair: MIE, Masayasu (14 : 20~15 : 40)

\* 14:10-14:20: interval for laptop PC connection.(4E2-33, 4E2-34, 4E2-35, 4E2-36, 4E2-38, 4E2-40)

**4E2-33** Construction of Functional Azurin-modified Electrode by Site-specific Sequential modification (Research Center for Materials Science, Nagoya Univ.; Nagoya Univ.) MIYAZAKI, Soushi; NAKAJIMA, Hiroshi; WATANANE, Yoshihito

**4E2-34** Signal transduction mechanism consisting of electron transfer proteins -Application to transcriptional regulator- (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.) NAKAJIMA, Hiroshi; MIYAZAKI, Soushi; WATANABE, Yoshihito

**4E2-35** Photo-control of the receptor protein DCC to induce axon elongation in neuron (The Univ. of Tokyo) ENDO, Mizuki; HATTORI, Mitsuru; OZAWA, Takeaki

**4E2-36\*** Solid-state NMR study of temperature and pressure induced structural changes in Bacteriorhodopsin (Grad. Sch. Eng., Yokohama Natl. Univ.) KAWAMURA, Izuru; SHIGETA, Arisu; HORIGOME, Miyako; OKITSU, Takashi; WADA, Akimori; TUZI, Satoru; NAITO, Akira

**4E2-38\*\*** Membrane translocation and cell entry of a protein screw (iCeMS, Kyoto Univ.Grad. Sch. Engr. Kyoto Univ.Grad. Sch. Biosci. and Biotech. Tokyo Inst. Tech.) SANGHAMITRA, Nusrat; INABA, Hiroshi; WANG, Dan Ohtan; KANAMARU, Shuji; ARISAKA, Fumio; AIBA, Kazuhiro; NAKATSUJI, Norio; KITAGAWA, Susumu; UENO, Takafumi

**4E2-40** Cell penetration mechanism of an artificial protein screw: From a structural perspective (Grad. Sch. Biosci. and Biotech. Tokyo Inst. Tech. Grad. Sch. Engr. Kyoto Univ.iCeMS, Kyoto Univ.) MATSUMOTO, Takahiro; INABA, Hiroshi; SANGHAMITRA, Nusrat; KITAGAWA, Susumu; ABE, Satoshi; UENO, Takafumi

Chair: ATOMI, Haruyuki (15 : 50~17 : 00)

\* 15:40-15:50: interval for laptop PC connection.(4E2-42, 4E2-43, 4E2-44, 4E2-45, 4E2-46, 4E2-48)

**4E2-42** Development of the method for displaying DNA on a cell surface using phiX174 GeneA\* protein (TokyoTech) YORITA, Tsuyoshi; MIE, Masayasu; KOBATAKE, Eiry

**4E2-43** Construction of CNTF-tethered ECM for regeneration of nerve tissue (TokyoTech) KIM, Jaehoon; MIE, Masayasu; KOBATAKE, Eiry

**4E2-44** Construction of a novel extracellular matrix for bone regeneration (TokyoTech) HIROTA, Yuusuke; MIE, Masayasu; KOBATAKE, Eiry

**4E2-45** Functional analysis of crystal morphological regulator protein Mms6 using in magnetotactic bacteria by partial deletion of its amino acid sequence. (Inst. Engr., Tokyo Univ. Agri. Tech.) NARUMIYA, Kaori; YAMAGISHI, Ayana; ODA, Mayumi; TANAKA, Masayoshi; MATSUNAGA, Tadashi; ARAKAKI, Atsushi

**4E2-46\*** Enhanced expression of heterologous proteins on bacterial magnetic particle surface using the protease deletion mutant of *Magnetospirillum magneticum* AMB-1. (Inst. Engr., Tokyo Univ. Agri. Tech.) KANETSUKI, Yuka; TANAKA, Tsuyoshi; MATSUNAGA, Tadashi; YOSHINO, Tomoko

**4E2-48** Functional expression of antigen peptide-MHC class I fusion proteins onto bacterial magnetic particles and its application to cell separation. (Inst. Engr., Tokyo Univ. Agri. Tech.) YASUDA, Takayuki; HONDA, Toru; TANAKA, Tsuyoshi; MATSUNAGA, Tadashi; YOSHINO, Tomoko

## Room E3 FOREST HOUSE F203

### Chemical Biology

Friday, March 22, AM

Chair: TSUKIJI, Shinya (9 : 20 ~10 : 30)

\* 9:10-9:20: interval for laptop PC connection.(1E3-03, 1E3-04, 1E3-06, 1E3-08, 1E3-09)

**1E3-03** Detection of proteins that interact with membrane lipid sphingomyelin (Osaka Univ.) MORI, Shoko; TSUCHIKAWA, Hiroshi; UMEGAWA, Yuichi; MATSUMORI, Nobuaki; MURATA, Michio

**1E3-04\*** Biosensing using Innovative Chemical Probes 1: Turn-On Imaging of Enzyme Activity using Self-Assembling Nano-Probes (Graduate School of Engineering, Kyoto University) MATSUO, Kazuya; FUKUYAMA, Yoshiaki; KAMADA, Rui; MIZUSAWA, Keigo; IMAI, Hirohiko; TAKAYAMA, Yuki; NARAZAKI, Michiko; MATSUDA, Tetuya; TAKAOKA, Yousuke; HAMACHI, Itaru

**1E3-06\*** Biosensing using Innovative Chemical Probes(2) In Cell Fluorescence Protein Imaging by Self-Assembling Nanoprobes (Kyoto Univ.) TAKAOKA, Yousuke; MIZUSAWA, Keigo; HAMACHI, Itaru

**1E3-08** Highly sensitive <sup>19</sup>F MR imaging for cancer (Engineering, Osaka Univ.) MATSUSHITA, Hisashi; SUGIHARA, Fuminori; NAKANISHI, Yosuke; YOSHIOKA, Yoshichika; MIZUKAMI, Shin; KIKUCHI, Kazuya

**1E3-09** Development of Highly Sensitive Silica Nanoparticle for <sup>19</sup>F chemical shift imaging (Graduate School of Engineering, Osaka Univ.) MUKAI, Hiroaki; SUGIHARA, Fuminori; MATSUSHITA, Hisashi; YOSHIOKA, Yoshichika; MIZUKAMI, Shin; KIKUCHI, Kazuya

Chair: MIZUKAMI, Shin (10 : 40~11 : 40)

\* 10:30-10:40: interval for laptop PC connection.(1E3-11, 1E3-13, 1E3-14, 1E3-15, 1E3-16)

**1E3-11\*** Biosensing using Innovative Chemical probes 3:Organelle-Localizable Fluorescence Chemosensors for Analysis of Nucleoside Polyphosphate Dynamics (Kyoto University) KURISHITA, Yasutaka; OJIDA, Akio; HAMACHI, Itaru

**1E3-13** Nucleus-Localizing Fluorescent Compounds 1: Nucleus-Specific Localization of Fluorescent Molecules Using a Hoechst-Tag (Department of Bioengineering, Nagaoka University of Technology; Department of Electrical Engineering, Nagaoka University of Technology; Graduate School of Engineering, Department of Synthetic Chemistry and Biological Chemistry, Kyoto University; Top Runner Incubation Center for Academia-Industry Fusion, Nagaoka University of Technology) KIKUCHI, Tamaki; TAKIGAWA, Kazumasa; NAKAMURA, Akinobu; KURISHITA, Yasutaka; ISHIDA, Manabu; NAKAYAMA, Tadachika; HAMACHI, Itaru; TSUKIJI, Shinya

**1E3-14** Nucleus-Localizing Fluorescent Compounds 2: Photochemical Properties and Intracellular Behavior of Hoechst-Tagged Fluorescent Molecules (Department of Electrical Engineering, Nagaoka University of Technology; Department of Bioengineering, Nagaoka University of Technology; Graduate School of Engineering, Department of Synthetic Chemistry and Biological Chemistry, Kyoto University; Top Runner Incubation Center for Academia-Industry Fusion, Nagaoka University of Technology) NAKAMURA, Akinobu; TAKIGAWA, Kazumasa; KURISHITA, Yasutaka; ISHIDA, Manabu; NAKAYAMA, Tadachika; HAMACHI, Itaru; TSUKIJI, Shinya

**1E3-15** Hyperpolarized magnetic resonance molecular probe for highly sensitive detection of biomolecules (1): Design of hyperpolarized substrate for an analysis of disease-related enzyme (Kyushu Univ.) NISHIHARA, Tatsuya; NONAKA, Hiroshi; URANO, Yasuteru; SANDO, Shinsuke

**1E3-16** Hyperpolarized magnetic resonance molecular probe for highly sensitive detection of biomolecules(2):Study on properties of hyperpolarized molecules and attempt for a long polarized lifetime (Kyushu Univ.) NONAKA, Hiroshi; HATA, Ryunosuke; KAMEYAMA, Yutaka; SANDO, Shinsuke

### Friday, March 22, PM

Chair: OHKANDA, Junko (12 : 50~13 : 50)

\* 12:40-12:50: interval for laptop PC connection.(1E3-24, 1E3-25, 1E3-26, 1E3-28, 1E3-29)

**1E3-24** Discovery of [4+4] cycloaddition of polyamine-derived imines and possibility of biofunctions (RIKEN Advanced Science Institute) TSUTSUI, Ayumi; TANAKA, Katsunori

**1E3-25** Property and bioactivity of [4+4] cycloadducts from polyamines and acrolein (RIKEN Advanced Science Institute) TANAKA, Katsunori

**1E3-26\*\*** Examining the Interaction of the Marine Sponge Peptide Theonellamide A with Sterols in Lipid Bilayers (Osaka Univ.) ESPIRITU, Rafael; KINOSHITA, Masanao; MATSUMORI, Nobuaki; MURATA, Michio; NISHIMURA, Shinichi; KAKEYA, Hideaki; MATSUNAGA, Shigeki; YOSHIDA, Minoru

**1E3-28** Stable-Isotope Enriched Biocompatible Polymer Probes for a Highly-Sensitive Multiple Resonance NMR Analysis (Graduate School of Engineering, Kyoto Univ.) HASEGAWA, Yoshinori; YAMADA, Hisatsugu; KIMURA, Yu; TOCHIO, Hidehito; SHIRAKAWA, Masahiro; SUGIHARA, Fuminori; IMAI, Hirohiko; TAKAYAMA, Yuki; MATSUDA, Tetsuya; YANO, Tetsuya; SANDO, Shinsuke; AOYAMA, Yasuhiro; TOSHIMITSU, Akio; KONDO, Teruyuki

**1E3-29** Development of Stable-Isotope Enriched Biocompatible Polymer Probes and Their Application to Magnetic Resonance Imaging (Grad School of Engineering, Kyoto Univ.) HASEGAWA, Yoshinori; YAMADA, Hisatsugu; KIMURA, Yu; TOCHIO, Hidehito; SHIRAKAWA, Masahiro; SUGIHARA, Fuminori; IMAI, Hirohiko; TAKAYAMA, Yuki; MATSUDA, Tetsuya; SANDO, Shinsuke; AOYAMA, Yasuhiro; TOSHIMITSU, Akio; KONDO, Teruyuki

Chair: UEDA, Minoru (14 : 00~14 : 40)

\* 13:50-14:00: interval for laptop PC connection.(1E3-31, 1E3-33, 1E3-34)

**1E3-31\*** Development of Novel PYP-Tag Mutants for Rapid Labeling Reactions (IFReC, Osaka Univ.Graduate School of Engineering, Osaka Univ.JST, PRESTO) KAMIKAWA, Yuka; HORI, Yuichiro; KIKUCHI, Kazuya

**1E3-33** Development of Protein Multicolor Imaging Technique Based on PYP-tag and Its Synthetic Fluorescent Probes (Graduate School of Engineering, Osaka Univ.) HIRAYAMA, Shinya; HORI, Yuichiro; KIKUCHI, Kazuya

**1E3-34** Biological Application of Protein Labeling System Utilizing PYP-tag and Dimethylaminocoumarin Probe (Graduate School of Engineering, Osaka Univ.) SATO, Motoki; HORI, Yuichiro; KIKUCHI, Kazuya



Chair: NAKATA, Eiji (17 : 10~18 : 10)

\* 17:00-17:10: interval for laptop PC connection.(1E3-50, 1E3-52, 1E3-53, 1E3-54, 1E3-55)

**1E3-50\*** Inhibition of potassium channels and control of cell membrane potentials by photo-induced charge separated molecules (Kyoto Univ., WPI-iCeMS; Kyoto Univ., Grad. Sch. Eng.) TAKANO, Yuta; NUMATA, Tomohiro; MURAKAMI, Tatsuya; KAWASHIMA, Fumiaki; MORONE, Nobuhiro; HEUSER, John E.; MORI, Yasuo; IMAHORI, Hiroshi

**1E3-52** Photoregulation of cell membrane potential by porphyrin-fullerene linked molecules (Kyoto Univ., WPI-iCeMS; Kyoto Univ., Grad.Scl.Eng.) MIYAKE, Kazuaki; TAKANO, Yuta; MURAKAMI, Tatsuya; NUMATA, Tomohiro; MORI, Yasuo; IMAHORI, Hiroshi

**1E3-53** In cell chemical labeling (1) Specific labeling of HER2, a breast cancer marker using LDT chemistry. (Graduate school of Engineering, Kyoto university) YAMAURA, Kei; TAMURA, Tomonori; KIOI, Yoshiyuki; TAKAOKA, Yousuke; KIYONAKA, Shigeki; HAMACHI, Itaru

**1E3-54** In cell chemical labeling (2) Site-specific protein <sup>19</sup>F chemical labeling using affinity-guided DMAP (AGD) catalysts (Kyoto Univ.) TAKAHASHI, Naoya; TAMURA, Tomonori; TAKAOKA, Yousuke; TOCHIO, Hidehito; SHIRAKAWA, Masahiro; HAMACHI, Itaru

**1E3-55** In Cell Chemical Labeling (3) Specific Endogenous Protein Labeling in live Cells using AGD Chemistry (Graduate School of Engineering, Kyoto University) SONG, Zhining; TAKAOKA, Yousuke; MINATO, Daishiro; HAMACHI, Itaru

## Saturday, March 23, AM

Chair: HIRAI, Go (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(2E3-01, 2E3-02, 2E3-04, 2E3-05, 2E3-06)

**2E3-01** Searching of the Target Proteins of an Antitumor Macrolide Aplyronine A with Photoaffinity Probes (Univ. of Tsukuba) YAMAGISHI, Kota; HIRAYAMA, Yuichiro; YONEDA, Kozo; TSUCHIYA, Kota; KITA, Masaki; KIGOSHI, Hideo

**2E3-02\*** Study on the Mode of Action of an Antitumor Macrolide Aplyronine A (Univ. of Tsukuba) HIRAYAMA, Yuichiro; YONEDA, Kozo; YAMAGISHI, Kota; KITA, Masaki; KIGOSHI, Hideo

**2E3-04** Study on the Mode of Action of an Antitumor Macrolide Aplyronine A by Cell Observation (Univ. of Tsukuba) YONEDA, Kozo; HIRAYAMA, Yuichiro; YAMAGISHI, Kota; KITA, Masaki; KIGOSHI, Hideo

**2E3-05** Synthesis of molecular probes for identifying receptors of sperm-activating and sperm-attracting factor isolated from the ascidian *Ciona intestinalis*. (Kyushu Univ.; The Univ. of Tokyo) KOSAKA, Koji; TORIKAI, Kohei; YOSHIDA, Manabu; OISHI, Tohru

**2E3-06** Synthetic Studies on splenocin B, a potent inhibitor of pro-inflammatory cytokine production (Osaka City Univ.) YOSHIDA, Ken-ichi; IJIRI, Minako; OGAWA, Hikaru; USUKI, Yoshinosuke; IIO, Hideo

Chair: HORI, Yuichiro (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(2E3-08, 2E3-10, 2E3-11, 2E3-13)

**2E3-08\*** Cell Regulation by Plasma Membrane-Localizing Ligands 1: Construction of synthetic signaling pathways in living cells (Top Runner Incubation Center for Academia-Industry Fusion, Nagaoka University of Technology; Department of Bioengineering, Nagaoka University of Technology; Graduate School of Engineering, Department of Synthetic Chemistry and Biological Chemistry, Kyoto University) ISHIDA, Manabu; WATANABE, Hideaki; TAKIGAWA, Kazumasa; HAMACHI, Itaru; TSUKIJI, Shinya

**2E3-10** Cell Regulation by Plasma Membrane-Localizing Ligands 2: Activation of an Endogenous Lipid Signaling Pathway (Department of Bioengineering, Nagaoka University of Technology; Top Runner Incubation Center for Academia-Industry Fusion, Nagaoka University of Technology; Graduate School of Engineering, Department of Synthetic Chemistry and Biological Chemistry, Kyoto University) OKI, Choji; ISHIDA, Manabu; WATANABE, Hideaki; HAMACHI, Itaru; TSUKIJI, Shinya

**2E3-11\*** Design of cell-penetrating protein screw for modulation of intracellular signal transduction by delivery of carbon monoxide (Grad. Sch. Engn. Kyoto Univ.iCeMS, Kyoto Univ.Grad. Sch. Biosci. and Biotech. Tokyo Inst. Tech.) INABA, Hiroshi; SANGHAMITRA, Nusrat; FUJITA, Kenta; KUCHIMARU, Takahiro; KONDOH, Shinae; KITAGAWA, Susumu; UENO, Takafumi

**2E3-13** Control of release of carbon monoxide by adjusting coordination structure of artificial protein screw surface (Grad. Sch. Biosci. and Biotech. Tokyo Inst. Tech.Grad. Sch. Engn. Kyoto Univ.iCeMS, Kyoto Univ.) FUJITA, Kenta; INABA, Hiroshi; SANGHAMITRA, Nusrat; KITAGAWA, Susumu; ABE, Satoshi; UENO, Takafumi

Chair: SUGIYAMA, Hiroshi (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(2E3-15)

**2E3-15** CSJ Award for Creative Works Natural Product-like Peptide Synthesis Using an Integrated System of RNA Catalyst and Translation Apparatus (The Univ. of Tokyo) SUGA, Hiroaki

## Saturday, March 23, PM

Chair: KIYONAKA, Shigeki (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(2E3-28, 2E3-29, 2E3-30, 2E3-31)

**2E3-28** Chemical biology of fat accumulation inhibitor, ternatin (Kanagawa Univ. Dept. of Chemistry) TANAKA, Yoko; KATAGIRI, Keisuke; SAITOU, Naoki; KAWAZOE, Yoshinori; UEMURA, Daisuke

**2E3-29** A novel selenium-containing imidazole, selenoneine and its antioxidant activity (National Research Institute of Fisheries Science; Fisheries Research Agency, Japan) YAMASHITA, Yumiko; IMAMURA, Shintaro; YABU, Takeshi; ISHIHARA, Kenji; YAMASHITA, Michiaki

**2E3-30** Studies on the Mode of Actions of Auripyrones (Univ. of Tsukuba) TAKEMURA, Takuma; TANABE, Satoshi; HAYAKAWA, Ichiro; KITA, Masaki; KIGOSHI, Hideo

**2E3-31** Young Scholar Lectures of CSJ Developing New Chemical Biology Methodologies by Modifying Synthetic Ligands (Top Runner Incubation Center for Academia-Industry Fusion, Nagaoka University of Technology) Tsukiji, Shinya

Chair: ONODA, Akira (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(2E3-35, 2E3-36, 2E3-37, 2E3-38, 2E3-40)

**2E3-35** Progress of LDAI chemistry(1) isozyme selectivity on the labeling (Kyoto Univ.) AWA, Masashi; MIKI, Takayuki; TAKAOKA, Yousuke; HAMACHI, Itaru

**2E3-36** Progress of LDAI chemistry(2)Pulse-chase analysis of endogenous membrane proteins in live cells (Graduate School of Engineering, Kyoto Univ.) MIKI, Takayuki; FUJISHIMA, Sho-hei; YASUI, Ryosuke; HAMACHI, Itaru

**2E3-37** Progress of LDAI chemistry(3) Chemical label of neurotransmitter receptor (Department of Synthetic Chemistry and Biological Chemistry Kyoto University) WAKAYAMA, Sho; KIYONAKA, Shigeki; HAMACHI, Itaru

**2E3-38\*** Development of Metal Complex-Based Fluorescent Probes for H<sub>2</sub>O<sub>2</sub> (1) (Doshisha Univ.) TAKEYASU, Toshiyuki; HITOMI, Yutaka; KODERA, Masato

**2E3-40** Development of Metal Complex-Based Fluorescent Probes for H<sub>2</sub>O<sub>2</sub> (2) (Doshisha Univ.) TAKANO, Hiroto; TAKEYASU, Toshiyuki; HITOMI, Yutaka; KODERA, Masato

Chair: TAKI, Masayasu (15 : 50~16 : 50)

\* 15:40-15:50: interval for laptop PC connection.(2E3-42, 2E3-43, 2E3-45, 2E3-47)

**2E3-42** Chemical labeling of glycoproteins by catalyst-tethered lectins(1): Construction and evaluation of catalyst-tethered lectins (Kyoto University) FUJII, Kumiko; HAYASHI, Takahiro; TAKAOKA, Yousuke; KIYONAKA, Shigeki; HAMACHI, Itaru

**2E3-43\*** Chemical labeling of glycoproteins by catalyst-tethered lectins(2): Labeling and profiling of glycoproteins on living cells (Graduate School of Engineering, Kyoto University) HAYASHI, Takahiro; SUN, Yedi; TAMURA, Tomonori; KUWATA, Keiko; KIYONAKA, Shigeki; TAKAOKA, Yousuke; HAMACHI, Itaru

**2E3-45\*** Generation of Fluorescent Protein-Based Indicator for Citrate (Dept. Appl. Chem., Fac. Sci. Eng., Waseda Univ.) HONDA, Yuki; KIRIMURA, Kohtaro

**2E3-47** Synthesis and Functional Evaluation of MnO Nanoparticles for Dual Photoacoustic and MR Imaging (Kyoto Univ.) KIMURA, Yu; SUGII, Hiroaki; TOSHIMITSU, Akio; MATSUDA, Tetsuya; IMAI, Hirohiko; KONDO, Teruyuki

Chair: MATSUO, Takashi (17 : 00~17 : 30)

\* 16:50-17:00: interval for laptop PC connection.(2E3-49, 2E3-51)

**2E3-49\*** Development of selective fluorescent probes for Fe(II) and their application (Gifu Pharmaceutical University) HIRAYAMA, Tasuku; NIWA, Masato; OKUDA, Kensuke; NAGASAWA, Hideko

**2E3-51** Development of pH-Activatable Fluorescent Probe Aiming at Long-term Imaging of Osteoclast dynamics (Graduate School of Engineering, Osaka Univ.) MAEDA, Hiroki; KOWADA, Toshiyuki; KIKUCHI, Kazuya

## Biofunctional Chemistry ; Biotechnology

### Sunday, March 24, AM

Chair: TAKADA, Tadao (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(3E3-01, 3E3-02, 3E3-03, 3E3-04, 3E3-05, 3E3-06)

**3E3-01** Reaction analysis of ultra fast photocrosslinking reaction in DNA double strand (JAIST) YAMADA, Asuka; SAKAMOTO, Takashi; YOSHIMURA, Yoshinaga; FUJIMOTO, Kenzo

**3E3-02** Development of ultrafast DNA photocrosslinking in triplex DNA (Sch. Mat. Sci., JAIST) YOSHINAGA, Hiroki; SAKAMOTO, Takashi; FUJIMOTO, Kenzo

**3E3-03** Development of reversible photocrosslinking reaction to pseudo-

idine in oligoribonucleotide (JAIST; School of Materials Science) KISHI, Satomi; SAKAMOTO, Takashi; FUJIMOTO, Kenzo

- 3E3-04** Interstrand cross-linking of DNA duplex by Diels-Alder reaction (Sch. Eng., Nagoya Univ.) OKAYAMA, Yasuaki; HIGASHIYAMA, Naofumi; KATO, Tomohiro; KASHIDA, Hiromu; ASANUMA, Hiroyuki
- 3E3-05** Photocrosslinking of DNA duplexes via [2+2] dimerization of stilbene derivatives (Sch. Eng., Nagoya Univ.) DOI, Tetsuya; SAKAKIBARA, Takumi; HAYASHI, Takamitsu; FUJII, Taiga; KASHIDA, Hiromu; ASANUMA, Hiroyuki
- 3E3-06** Interstrand photo-crosslinking of RNA duplex by *p*-stilbazole-tethered RNA (Sch. Eng., Nagoya Univ.) DOI, Tetsuya; IISHIBA, Kazuki; SAKAKIBARA, Takumi; TAKAI, Junya; KAMIYA, Yukiko; KASHIDA, Hiromu; ASANUMA, Hiroyuki

Chair: MURAKAMI, Akira (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3E3-08, 3E3-09, 3E3-10, 3E3-11, 3E3-12, 3E3-13)
- 3E3-08** Charge delocalization during hole transfer in DNA (The Institute of Scientific and Industrial Research, Osaka Univ., Department of Chemistry, Stanford Univ.) KAWAI, Kiyohiko; OSAKADA, Yasuko; MAJIMA, Tetsuro
- 3E3-09** Evaluation of Electron Transfer in DNA and RNA by Distance Dependence (University of Hyogo) TAKAMATSU, Yuta; TAKADA, Tadao; NAKAMURA, Mitsunobu; YAMANA, Kazushige
- 3E3-10** Control of organization of perylene diimide derivatives on DNA and its application for photo-responsive device (University of Hyogo) ASHIDA, Akane; TAKADA, Tadao; NAKAMURA, Mitsunobu; YAMANA, Kazushige
- 3E3-11** Modulation of Excess Electron Transfer in DNA by Inserting 2'-Deoxycytidine Derivatives (Graduate School of Engineering, Kyoto Univ.) ITO, Takeo; KURIHARA, Ryohsuke; UTSUMI, Nihiro; NISHIMOTO, Seiichi
- 3E3-12** Synthesis and properties of a modified DNA containing diisopropylsilyl linkage (Gunma University) SEKINE, Mitsuaki; MORIGUCHI, Tomohisa; SHINOZUKA, Kazuo
- 3E3-13** Photoreactivity of RNA containing 5-bromouracil (Sugiyama Lab., Dept. of Chem., Grad. Sch. of Sci., Kyoto Univ.) KIZAKI, Seiichi; MORINAGA, Hironobu; SUGIYAMA, Hiroshi

Chair: KAWAI, Kiyohiko (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(3E3-15, 3E3-16, 3E3-18, 3E3-19, 3E3-20)
- 3E3-15** Inhibition of the *bcl-2* gene by antisense oligoribonucleotides containing a photoresponsive  $\alpha$ -haloaldehyde derivative (Kyoto Inst. of Tech.) NAGAE, Yuko; YAMAYOSHI, Asako; MURAKAMI, Akira; KOBORI, Akio
- 3E3-16\*** Interaction analysis between RISC and antisense oligonucleotide by in vitro RNAi system (Kyoto Inst. of Tech.) MATSUYAMA, Yohei; YAMAYOSHI, Asako; KOBORI, Akio; MURAKAMI, Akira
- 3E3-18** Inhibition of RISC function by antisense oligonucleotides containing a linker moiety (II) Development of functional oligonucleotides to induce allosteric regulation of RISC function (Kyoto Inst. of Tech.) YAMAYOSHI, Asako; MUKAI, Takatoshi; NAKAMURA, Hiromi; KOBORI, Akio; MURAKAMI, Akira
- 3E3-19** Development of a novel peptide-oligonucleotide conjugates for regulation of RISC function. (Kyoto Inst. of Tech.) YAMAYOSHI, Asako; ARIYOSHI, Junpei; KOBORI, Akio; MURAKAMI, Akira
- 3E3-20** Synthesis and properties of a novel RNA detecting probe which increase fluorescent intensity by binding to the 3'-end of a target RNA (Kanagawa University) OHNO, Kentaro; ONO, Akira; OKAMOTO, Itaru

## Chemical Biology

Sunday, March 24, PM

Chair: KIYONAKA, Shigeki (16 : 50~17 : 50)

- \* 16:40-16:50: interval for laptop PC connection.(3E3-48, 3E3-49, 3E3-51, 3E3-53)
- 3E3-48** Raman diagnosis of the differentiation process of mouse mesenchymal stem cells into osteoblasts (Osaka Univ., Graduate School of Engineering, Department of Applied Physics) HASHIMOTO, Aya; CHIU, Liang-da; IKEUCHI, Tomohiko; FUJITA, Katsumasa; TAKEDACHI, Masahide; YAMAGUCHI, Yoshinori; KAWATA, Satoshi; MURAKAMI, Shinya; TAMIYA, Eiichi
- 3E3-49\*** Synthesis of quantum dot with HaloTag ligand for single molecule imaging in living cells (RIKEN Kobe (OLABB)) KOMATSUZAKI, Akihito; TSUKASAKI, Yoshikazu; OHYANAGI, Tatsuya; MIYANAGA, Yukihiro; UEDA, Masahiro; JIN, Takashi
- 3E3-51\*** One pot synthesis of water soluble PbS quantum dots for near infrared *in vivo* imaging (RIKEN) NAKANE, Yuko; TSUKASAKI, Yoshikazu; KOMATSUZAKI, Akihito; JIN, Takashi
- 3E3-53** Introduction of ruthenium complex into oligodeoxynucleotides and their properties as hypoxia imaging probe (Kyoto Univ.) YOSHIHARA, Kazuki; SON, Aoi; NISHIMOTO, Sei-ichi; TANABE, Kazuhito

Chair: TAKAOKA, Yousuke (18 : 00~18 : 30)

- \* 17:50-18:00: interval for laptop PC connection.(3E3-55, 3E3-56)
- 3E3-55** Synthesis of ruthenium complexes possessing hydrophobic substituents and their applications to hypoxia imaging (Kyoto Univ.) KAWASAKI, Atsushi; SON, Aoi; TANABE, Kazuhito
- 3E3-56\*** Carboranes, Hypoxia Inducible Factor (HIF) Inhibitors, Induces Degradation of HIF-1 $\alpha$  by Inhibiting Heat Shock Protein 60 (Gakushuin Univ.) NAKAMURA, Hiroyuki; BAN, Hyun Seung; SHIMIZU, Kazuki; AZUMA, Soyoko; YASUI, Yuka; SATO, Shinichi

Monday, March 25, AM

Chair: ONODA, Akira (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4E3-01, 4E3-02, 4E3-03, 4E3-05)
- 4E3-01** Selective Photo-degradation of Verotoxin-1 of *Escherichia coli* serotype O-157 by Porphyrin-Globotriose(Gb3) Hybrids (Keio Univ.; Faculty of Science and Technology) OKOCHI, Atsushi; TANIMOTO, Shuho; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu
- 4E3-02** Photo-degradation of Amyloid  $\beta$  by Porphyrin Derivatives and Their Effect on Neuron-like PC12 Cells (Keio Univ.; Faculty of Science and Technology) HIRABAYASHI, Ayumi; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu
- 4E3-03\*** Cyclophosphoribide enols as detoxified catabolites of chlorophylls by heterotrophic protists (Ritsumeikan University) KASHIYAMA, Yuichiro; KINOSHITA, Yusuke; TAMIAKI, Hitoshi
- 4E3-05\*** Development of novel fluorescence probes for hydrolases using pterin derivatives (Nagahama Inst. of Bio-Sci. & Tech.) KAWAI, Yasushi; MATSUMOTO, Minako

Chair: NANBA, Kosuke (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(4E3-08, 4E3-09, 4E3-10, 4E3-11, 4E3-12)
- 4E3-08** Synthesis and Photochemistry of new caged fluorophores to label a protein of interest (Toho University) TONEGAWA, Chihiro; NAKAYAMA, Tomohiro; SUZUKI, Akinobu; FURUTA, Toshiaki
- 4E3-09** Development of New Caged Compounds that can be activated in the Presence of  $\beta$ -galactosidase (Toho University) OKA, Eri; SUZUKI, Akinobu; FURUTA, Toshiaki
- 4E3-10** Biomembrane-embedded DMAP catalysts(1):lipid labeling on liposome and biomembrane (Graduate School of Engineering, Kyoto University) YASUEDA, Yuki; TAMURA, Tomonori; TAKAOKA, Yousuke; KIYONAKA, Shigeki; IKENOUCI, Junichi; UEDA, Masato; HAMACHI, Itaru
- 4E3-11** Biomembrane-embedded DMAP catalysts(2):membrane protein labeling on Red blood cells (Graduate School of Engineering, Kyoto University) KOMATSU, Kazuhiro; TAMURA, Tomonori; TAKAOKA, Yousuke; KIYONAKA, Shigeki; IKENOUCI, Junichi; UEDA, Masato; HAMACHI, Itaru
- 4E3-12\*** Biomembrane-embedded DMAP catalysts (3): Selective labeling of microdomain on cell membrane (Graduate School of Engineering, Kyoto University) TAMURA, Tomonori; TAKAOKA, Yousuke; KIYONAKA, Shigeki; IKENOUCI, Junichi; UEDA, Masato; HAMACHI, Itaru

Chair: TANAKA, Katsunori (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(4E3-15, 4E3-17, 4E3-19)
- 4E3-15\*** A Solid-phase Method for Target-selective Protein Affinity Labeling (Keio Univ.; Faculty of Science and Technology) TAKAHASHI, Daisuke; KANEKO, Hajime; KUWAHARA, Daichi; TOSHIMA, Kazunobu
- 4E3-17\*** Near-Infrared Photodynamic Therapy Using Up-Conversion Lanthanide Nanoparticles and 5-Aminolevulinic acid (Grad. Sch. of Biosci. and Biotech., Tokyo Tech.; SBI Pharma. Co.Ltd) SHIMOYAMA, Atsushi; WATASE, Hiroya; LIU, Yu; IIZUKA, Masayuki; TANAKA, Tatsumi; SOTOKAWA, Izumi; OGURA, Shun-ichiro; HAGIYA, Yuichiro; TAKAHASHI, Kiwamu; INOUE, Katsushi; TANAKA, Tohru; OHKUBO, Akihiro; YUASA, Hideya
- 4E3-19\*** Development of fluorescence probes for super-resolution microscopy based on intramolecular spirocyclization (Grad. Sch. Med., The Univ. of Tokyo) UNO, Shin-nosuke; KAMIYA, Mako; YOSHIHARA, Toshitada; TOBITA, Seiji; TARHAN, Mehmet Cagatay; FUJITA, Hiroyuki; URANO, Yasuteru

Monday, March 25, PM

Chair: SANDO, Shinsuke (13 : 40~14 : 30)

- \* 13:30-13:40: interval for laptop PC connection.(4E3-29, 4E3-30, 4E3-31, 4E3-32)
- 4E3-29\*** Synthesis of spin probe for in vivo electron paramagnetic resonance imaging of cerebral nicotinic receptor (Tohoku Univ.) WANG, Xiaoli; ITTO, Kaori; XU, Shu; MIYAKE, Yusuke; EMOTO, Miho; FUJII, Hitotada; HIRATA, Hiroshi; ARIMOTO, Hirokazu
- 4E3-30** Synthesis of dual specificity phosphatase VHR inhibitors, RE12 derivatives, and their evaluation. (RIKEN) KOJIMA, Shuntaro; FREDERIC, Thuaud; UCHIDA, Takako; HIRAI, Go; OONUMA, Kana; TSUCHIMOTO, Teruhisa; SODEOKA, Mikiko

- 4E3-31** Stability Effects on 14-3-3 Protein/Phosphopeptides Complexes of 3-Amino-9-deoxycotylenol (ISIR, Osaka Univ.) YONEYAMA, Toru; ISHIDA, Ryosuke; NITTA, Hajime; OHKANDA, Junko; KATO, Nobuo
- 4E3-32\*** Photo-convertible Molecular Glue from Adhesion to Fixation for Hybridization with Biomolecules (Sch. Eng., The Univ. of Tokyo) UCHIDA, Noriyuki; OKURO, Kou; ARIGA, Takayuki; TOMISHIGE, Michio; AIDA, Takuzo

Chair: KITA, Masaki (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(4E3-35, 4E3-37, 4E3-38, 4E3-40)
- 4E3-35\*** Development and Application of Triazapentalenes as Fluorescent Probes (Graduate school of science, Hokkaido Univ.) OSAWA, Ayumi; MERA, Akane; KANAKI, Michika; NAMBA, Kosuke; TANINO, Keiji
- 4E3-37** One-Pot Synthesis of Highly Fluorescent 2,5-Disubstituted-1,3a,6a-triazapentalene (Hokkaido Univ.; Laboratory of Organic Chemistry II) MERA, Akane; OSAWA, Ayumi; NAMBA, Kosuke; TANINO, Keiji
- 4E3-38\*** A Near-Infrared Fluorescent Probe for Live-Cell Superresolution Microscopy of Cellular Proteins (Ecole polytechnique federale de Lausanne; The University of Tokyo) UMEZAWA, Keitaro; LUKINAVICIUS, Grazvydas; REYMOND, Luc; URANO, Yasuteru; JOHNSON, Kai
- 4E3-40** Regulating interactions between biomolecules and engineered nanoparticles by surface modification of nanoparticles in living cells (Graduate School of Engineering, Kyoto Univ.) NAKAMURA, Takuma; ITO, Takeo; KURIHARA, Ryosuke; KUSAKA, Eriko

Chair: DOHNO, Chikara (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(4E3-42, 4E3-44, 4E3-46)
- 4E3-42\*** Near infrared in vivo imaging of breast tumors using Herceptin labeled fluorescent gold nanoclusters (Laboratory for Nano-Bio probes, QBiC, Riken) JIN, Takashi; NAKAMURA, Mari; WATANABE, Tomonobu
- 4E3-44\*** Development of deep-tissue imaging method using 2nd near-infrared quantum dots (RIKEN Kobe OLABB) TSUKASAKI, Yoshikazu; OHYANAGI, Tatsuya; NAKANE, Yuhko; JIN, Takashi
- 4E3-46\*** Study of Single-molecule Fluorescent Imaging by Using ODMR (Kyoto Univ.) SOTOMA, Shingo

## Room E4

FOREST HOUSE F204

### Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds

Friday, March 22, AM

Chair: UENO, Masaharu (9 : 50 ~ 10 : 50)

- \* 9:40-9:50: interval for laptop PC connection.(1E4-06, 1E4-07, 1E4-08, 1E4-09, 1E4-11)
- 1E4-06** Catalytic Enantioselective Synthesis of Alkenylhydrosilane and Its Transformation (1) (Inst. for Materials Chemistry and Engineering, Kyushu Univ., Interdisciplinary Graduate School of Engineering Sciences, Kyushu Univ.) IGAWA, Kazunobu; YOSHIHIRO, Daisuke; ICHIKAWA, Nobumasa; TOMOOKA, Katsuhiko
- 1E4-07** Catalytic Enantioselective Synthesis of Alkenylhydrosilane and Its Transformation (2) (Inst. for Materials Chemistry and Engineering, Kyushu Univ., Interdisciplinary Graduate School of Engineering Sciences, Kyushu Univ. Department of Applied Chemistry, Tokyo Inst. of Technology) IGAWA, Kazunobu; YOSHIHIRO, Daisuke; ICHIKAWA, Nobumasa; KOKAN, Naoto; TOMOOKA, Katsuhiko
- 1E4-08** Catalytic asymmetric 1,3-dipolar cycloaddition of acyclic azomethine imines and alkynes (Graduate School of Science, Kyoto University) TAKIGUCHI, Yuka; HASHIMOTO, Takuya; MARUOKA, Keiji
- 1E4-09\*** Chiral phase-transfer catalyzed Mannich-type reaction and alkylation for the asymmetric synthesis of tetrasubstituted allenes (Graduate School of Science, Kyoto University) SAKATA, Kazuki; TAMAKUNI, Fumiko; HASHIMOTO, Takuya; MARUOKA, Keiji
- 1E4-11** Copper-catalyzed Enantiomer-selective Carbamoylation of  $\alpha$ ,  $\alpha$ -Disubstituted  $\alpha$ -Hydroxy Esters (Faculty of Eng. & Frontier Chem. Center, Hokkaido Univ.) MATSUI, Choichiro; KURONO, Nobuhito; OHKUMA, Takeshi

Chair: HASHIMOTO, Takuya (11 : 00~12 : 00)

- \* 10:50-11:00: interval for laptop PC connection.(1E4-13, 1E4-14, 1E4-15, 1E4-16, 1E4-17, 1E4-18)
- 1E4-13** Chiral Copper(II)-Catalyzed Enantioselective Boron Conjugate Additions to  $\alpha$ ,  $\beta$ -Unsaturated Carbonyl Compounds in Water (Graduate School of Science, The Univ. of Tokyo) XU, Pengyu; KITANOSONO, Taku; ENDO, Toshimitsu; UENO, Masaharu; KOBAYASHI, Shu
- 1E4-14** Catalytic asymmetric silyl conjugate additions to  $\alpha$ ,  $\beta$ -unsaturated carbonyl compounds in aqueous media (Graduate School of Science, The Univ. of Tokyo) UENO, Masaharu; DATE, Tomoaki; KOBAYASHI, Shu

- 1E4-15** Catalytic Asymmetric Allylic Oxidation Using Novel N,N-Bidentate Ligand-Cu(I) Complexes (Graduate School of Science, Kobe University) ISHII, Masami; IWANAGA, Kazunari; TAN, Qitao; HAYASHI, Masahiko
- 1E4-16** Catalytic asymmetric synthesis of isoxazolidines from  $\alpha$ -keto esters by utilizing nickel-diamine catalysts (RIKEN) NAKAMURA, Genta; SOHTOME, Yoshihiro; SYLVAIN, Lectard; TSUCHIMOTO, Teruhisa; SODEOKA, Mikiko
- 1E4-17** Enantioselective borane reduction of trifluoromethyl ketones using the oxazaborolidine catalyst generated in situ from chiral lactam alcohol (Kagawa University; Faculty of Agriculture) HARAUCHI, Yuki; YANAGITA, Ryo; FURUMOTO, Toshio; KAWANAMI, Yasuhiro
- 1E4-18** Asymmetric Conjugate Cyanation of  $\alpha$ ,  $\beta$ -Unsaturated Carbonyl Compounds Catalyzed by the Ruthenium/Lithium Combined Complexes (Faculty of Eng. & Frontier Chem. Center, Hokkaido Univ.) SAKAGUCHI, Yusuke; KURONO, Nobuhito; OHKUMA, Takeshi

### Friday, March 22, PM

Chair: UCHIDA, Tatsuya (13 : 10~14 : 10)

- \* 13:00-13:10: interval for laptop PC connection.(1E4-26, 1E4-28, 1E4-29, 1E4-30, 1E4-31)
- 1E4-26\*** Asymmetric cycloaddition of azomethine imines to terminal alkynes catalyzed by group 11 metal amides (Graduate School of Science, The Univ. of Tokyo) IMAIZUMI, Takaki; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 1E4-28** Development of efficient asymmetric [3+2] cycloaddition reactions catalyzed by chiral copper(I) amide complexes (Graduate School of Science, The Univ. of Tokyo) YOSHIMOTO, Susumu; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 1E4-29** Development of metal amide catalysts with electron-withdrawing ligands (School of Science, The Univ. of Tokyo) YAMASHITA, Yasuhiro; SAITO, Yuki; IMAIZUMI, Takaki; KOBAYASHI, Shu
- 1E4-30** Development of Boronic Acid-Catalysts for Amide Condensation of  $\alpha$ -Hydroxycarboxylic Acids (Nagoya Univ.; Okayama Univ.; CREST) YAMASHITA, Risa; SAKAKURA, Akira; ISHIHARA, Kazuaki
- 1E4-31\*** New highly active boronic acid catalysts for dehydrative condensation reaction between carboxylic acids and amines (Nagoya Univ., CREST) LU, Yanhui; ISHIHARA, Kazuaki

Chair: YAMASHITA, Yasuhiro (14 : 20~15 : 20)

- \* 14:10-14:20: interval for laptop PC connection.(1E4-33, 1E4-34, 1E4-35, 1E4-36, 1E4-37)
- 1E4-33** Highly Enantio- and Diastereoselective Hetero-Diels-Alder Reaction of Allylsilanes Induced by Chiral *n*-Cation Catalysts (Nagoya Univ.; Okayama Univ.; CREST) SUZUKI, Takahiro; SAKAKURA, Akira; ISHIHARA, Kazuaki
- 1E4-34** Ruthenium-salen complex-catalyzed aerobic oxidative enantiomer differentiation of racemic sec-alcohols (Faculty of Science, Graduate School, and International Institute of Carbon-Neutral Energy Research, Kyushu University) MIZOGUCHI, Hirotaka; UCHIDA, Tatsuya; KATSUKI, Tsutomu
- 1E4-35** Ru-salen Catalyzed Enantioselective Intermolecular C-H bond Amination using Azide compounds(2) (Faculty of Science, Graduate School and International Institute for Carbon-Neutral Energy Research, Kyushu University) NISHIOKA, Yota; UCHIDA, Tatsuya; KATSUKI, Tsutomu
- 1E4-36** Asymmetric Synthesis of the Ether Ring Structure using Iridium-catalyst (Univ. of Toyama) MIYAZAWA, Masahiro; YAMAGISHI, Kanae; YOSHIHARA, Syo-ko; EIZAWA, To-ru; YOKOYAMA, Hajime; HIRAI, Yoshiro
- 1E4-37\*** Higher Ordered Stereoselective Diels-Alder Reaction Induced by Chiral Tailor-Made Supramolecular Lewis Acid Catalysts (Nagoya Univ., CREST) MIZUNO, Tomokazu; HATANNO, Manabu; ISHIHARA, Kazuaki

Chair: OHMATSU, Kohsuke (15 : 30~16 : 30)

- \* 15:20-15:30: interval for laptop PC connection.(1E4-40, 1E4-41, 1E4-42, 1E4-43, 1E4-44, 1E4-45)
- 1E4-40** Lewis Acid-Assisted Chiral Phosphoric Acid Catalysts for Highly Enantioselective Diels-Alder Reaction toward Synthesis of Optically Active Alkaloids (Nagoya Univ., CREST) GOTO, Yuta; AKAKURA, Matsuijiro; HATANNO, Manabu; ISHIHARA, Kazuaki
- 1E4-41** Highly Enantioselective Diels-Alder Reaction Induced by Chiral Supramolecular Lewis Acid Catalysts Based on "CN-B" and "PO-B" Coordination Bonds (Nagoya Univ., CREST) MAKINO, Yuma; MIZUNO, Tomokazu; HATANNO, Manabu; ISHIHARA, Kazuaki
- 1E4-42** Development of catalytic 1,4-addition reactions based on product base mechanism (Graduate School of Science, The Univ. of Tokyo) SUZUKI, Hirotsugu; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 1E4-43** Efficient synthesis of pyranone derivatives via catalytic 1,4-addition reactions of sulfonylimidates (Graduate School of Science, The Univ. of Tokyo) KOBAYASHI, Shu; MASAKI, Nobuhisa; MASUDA, Koichiro; YAMASHITA, Yasuhiro
- 1E4-44** Difluoro(trimethylsilyl)methylation with Metal Enolates based on C-F Bond Activation (Graduate School of Science and Engineering, Tokyo Institute of Technology) HASHIMOTO, Ryota; IIDA, Toshiaki; AIKAWA, Kohsuke; ITO, Shigekazu; MIKAMI, Koichi

**1E4-45** Stereoselective Synthesis of Tetrasubstituted Olefins bearing CF<sub>3</sub> Group via Thermal Electrocyclic Ring Opening of Oxetene and its Synthetic Application (Graduate School of Science and Engineering, Tokyo Institute of Technology) SHIMIZU, Natsumi; HIOKI, Yuta; AIKAWA, Kohsuke; MIKAMI, Koichi

Chair: HATANO, Manabu (16 : 40~17 : 30)

\* 16:30-16:40: interval for laptop PC connection.(1E4-47, 1E4-49, 1E4-50, 1E4-51)

**1E4-47\*** Highly Selective and Versatile Catalytic Systems for Asymmetric Mukaiyama Aldol Reactions in Aqueous Media (Graduate School of Science, The Univ. of Tokyo) KITANOSONO, Taku; KOBAYASHI, Shu

**1E4-49** Development of catalytic asymmetric allylic amination using aqueous ammonia (Graduate School of Science, The Univ. of Tokyo) ENDO, Toshimitsu; UENO, Masaharu; KOBAYASHI, Shu

**1E4-50** Enantioselective Protonation via Aza-Michael Addition with Chiral Copper(II) Catalyst in Water (Graduate School of Science, The University of Tokyo) SAKAI, Masaru; KITANOSONO, Taku; KOBAYASHI, Shu

**1E4-51<sup>#</sup>** Chiral Silver Phosphate Catalyzed Intramolecular Cyclization/Enantioselective Reduction of *ortho*-Alkynylaryl Ketones (Graduate School of Science, Tohoku Univ.) LI, Feng; TODA, Yasunori; TERADA, Masahiro

Chair: AIKAWA, Kohsuke (17 : 40~18 : 30)

\* 17:30-17:40: interval for laptop PC connection.(1E4-53, 1E4-54, 1E4-55, 1E4-56, 1E4-57)

**1E4-53** Mild and efficient *C*-acylation of  $\beta$ -dicarbonyl compounds utilizing LiOH or MgCl<sub>2</sub>-amine-*N*-methylimidazole agent (NMI) (Department of Chemistry, School of Science and Technology, Kwasei Gakuin Univ.) OTSUKA, Arisa; YAMAMOTO, Ayumu; TANABE, Yoo

**1E4-54** Dehydration-type Ti-Claisen condensation between  $\alpha$ -sulfonyloxy acetates and formyl esters: Application to several cross coupling reactions - part 2 (Department of Chemistry, School of Science and Technology, Kwasei Gakuin Univ.) KAMADA, Risa; KITAGUCHI, Hideya; TANABE, Yoo

**1E4-55** Deprotection of Dithioacetals with 30% Hydrogen Peroxide Catalyzed by Fe(III)-NaI (Shizuoka Institute of Science & Technology) SUZUKI, Satoshi; ISHIZUKA, Yuki; SUZUKI, Takaya; KIRIHARA, Masayuki

**1E4-56** Reverse Regioselectivity in Palladium-Catalyzed Allylic Alkylation by Using Ion-Paired Ligand (Grad. Sch. of Eng., Nagoya Univ.) HARA, Yoshiyuki; OHMATSU, Kohsuke; OOI, Takashi

**1E4-57** Ligand-Enabled Multiple Absolute Stereocontrol in Palladium-Catalyzed Cycloaddition for Asymmetric Construction of Contiguous Quaternary Stereocenters (Grad. Sch. of Eng., Nagoya Univ.) IMAGAWA, Naomichi; OHMATSU, Kohsuke; OOI, Takashi

## Saturday, March 23, AM

Chair: HATANO, Manabu (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(2E4-01, 2E4-02, 2E4-03, 2E4-04, 2E4-05, 2E4-06)

**2E4-01** Catalytic Flow Synthesis of Nitoralkenes toward Tandem Reactions (Graduate School of Science, The Univ. of Tokyo) TSUBOGO, Tetsu; KOBAYASHI, Shu

**2E4-02** Synthesis of  $\beta$ -Amino Acid Derivatives Using Chiral Calcium Iodide Catalysts (Graduate School of Science, The Univ. of Tokyo) SHIMIZU, Shota; TSUBOGO, Tetsu; KOBAYASHI, Shu

**2E4-03<sup>#</sup>** Synthesis of Glutamic Acid Derivatives Utilizing Tunable Calcium-Catalyzed Chemoselective Asymmetric 1,4-Addition Reactions (Graduate School of Science, The Univ. of Tokyo) HUTKA, Martin; TSUBOGO, Tetsu; KOBAYASHI, Shu

**2E4-04** Development of Chiral Bis(oxazolidine)pyridine Ligand: Application to Enantioselective Reactions (Graduate school of Science, Chiba Univ.) SATO, Toru; OGINO, Yuta; ARAI, Takayoshi

**2E4-05** Chiral Bis(oxazolidine)pyridine-Cu Complex-catalyzed Enantioselective [3+2] Cycloaddition of Azomethine Imines with Alkynes (Graduate school of Science, Chiba Univ.) OGINO, Yuta; SATO, Toru; ARAI, Takayoshi

**2E4-06** Development of Asymmetric Bis(alkoxycarbonylation) Reactions Catalyzed by Palladium(II) Chloride in the Presence of Copper(I) Triflate (Kanazawa University, Graduate School of Natural Science and Technology) FURUYA, Tomoki; YONEZAWA, Yasushi; ARATANI, Takahiro; INOMATA, Katsuhiko; UKAJI, Yutaka

Chair: UKAJI, Yutaka (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(2E4-08, 2E4-10, 2E4-11, 2E4-12, 2E4-13)

**2E4-08\*** 1,4- and 1,2-Selective Hydrophosphonylation of  $\alpha,\beta$ -Unsaturated Esters and Ketones Catalyzed by Chiral Magnesium(II) Binaphtholate Aqua Complexes (Nagoya Univ., CREST) HORIBE, Takahiro; HATANO, Manabu; ISHIIHARA, Kazuaki

**2E4-10** Chiral Lithium(I) Phosphoryl Phenoxide Catalysts for Highly Enantioselective Cyanosilylation of Ketones (Nagoya Univ., CREST) YAMAKAWA, Katsuya; KAWAI, Tomoaki; HORIBE, Takahiro; HATANO, Manabu; ISHIIHARA, Kazuaki

**2E4-11** Regio- and Stereoselective Alkylation to  $\alpha$ -Imino Esters with Grignard Reagent-Derived Zinc(II) Ate Complexes (Nagoya Univ.,

CREST) YAMASHITA, Kenji; HATANO, Manabu; ISHIIHARA, Kazuaki

**2E4-12** Catalytic Asymmetric Iodolactonization Using Zn-Complex Derived from 3,3'-Formyl-BINOL and Chiral Diamine (Graduate School of Science, Chiba Univ.) SUGIYAMA, Noriyuki; ARAI, Takayoshi

**2E4-13** Enantioselective 1,4-addition of 3-indolylindole catalyzed by chiral imidazoline-aminophenol-metal complex (Graduate School of Science, Chiba Univ.) AWATA, Atsuko; YAMAMOTO, Yushi; ARAI, Takayoshi

Chair: ISHIIHARA, Kazuaki (11 : 20~11 : 50)

\* 11:10-11:20: interval for laptop PC connection.(2E4-15)

**2E4-15** Young Scholar Lectures of CSJ Development of Highly Efficient Transformation Reactions Based on Unique Reactivity of Silyl Substituted Unsaturated Bonds (IMCE, Kyushu Univ.) Igawa, Kazunobu

## Saturday, March 23, PM

Chair: ARAI, Takayoshi (13 : 00~14 : 00)

\* 12:50-13:00: interval for laptop PC connection.(2E4-25, 2E4-27, 2E4-28, 2E4-30)

**2E4-25\*** Development of catalytic asymmetric reactions of  $\alpha$ -alkylidene- $\beta$ -keto imides (Waseda Univ., Graduate School of Advanced Sci. and Engin.) ORIMOTO, Kohei; OYAMA, Harufumi; NAMERA, Yuki; NAKADA, Masahisa

**2E4-27** Development of catalytic asymmetric Mukaiyama-Michael reaction of  $\alpha$ -alkylidene- $\beta$ -keto imide (Waseda Univ., Graduate School of Advanced Sci. and Engin.) ORIMOTO, Kohei; OYAMA, Harufumi; NAKADA, Masahisa

**2E4-28\*** Development of Polymer-Incarcerated Chiral Rhodium/Silver Nanoparticles Catalyzed Asymmetric 1,4-Addition Reactions of Arylboronic Acids with Enones (Graduate School of Science, the Univ. of Tokyo) YASUKAWA, Tomohiro; MIYAMURA, Hiroyuki; KOBAYASHI, Shu

**2E4-30<sup>#</sup>** Corriu-Kumada-Tamao Reaction at Room Temperature Catalyzed by Non-innocent Carbene Cross-linkage Copolymer Incarcerated Nickel Nanoparticles. (Graduate School of Science, The University of Tokyo) SOULE, Jean-francois; MIYAMURA, Hiroyuki; KOBAYASHI, Shu

Chair: YASUDA, Makoto (14 : 10~15 : 10)

\* 14:00-14:10: interval for laptop PC connection.(2E4-32, 2E4-33, 2E4-35, 2E4-36, 2E4-37)

**2E4-32** Development of immobilized Sc catalyst which can be used in aqueous media (Graduate School of Science, The Univ. of Tokyo) SONOYAMA, Arisa; MIYAMURA, Hiroyuki; KOBAYASHI, Shu

**2E4-33\*** The Microwave Effect on the Catalytic Asymmetric Reaction(1) Catalytic atropo-Enantioselective Methanolysis Reaction of Biaryl Lactones (Keio Univ.) NUSHIRO, Kazuya; TSUBO, Tatsuyuki; KIKUCHI, Satoshi; YAMADA, Tohru

**2E4-35** The Microwave Effect on the Catalytic Asymmetric Reaction(2) Catalytic atropo-Enantioselective CBS Reduction of Biaryl Lactones (Keio Univ.) NUSHIRO, Kazuya; KIKUCHI, Satoshi; YAMADA, Tohru

**2E4-36** Tandem Asymmetric Michael-Henry Reaction Catalyzed by Imidazoline-Aminophenol(IAP)-Ni Complex (Graduate School of Science, Chiba Univ.) YAMAMOTO, Yushi; ARAI, Takayoshi

**2E4-37** Cobalt(II) complexes catalyzed Michael reaction of nitroolefines to 1,2-nitroamines (Tokai university) KATSUMATA, Yoshitaka; KOBAYASHI, Takumi; TAKIGUCHI, Akihiro; SHIMURA, Tatsuki; KEZUKA, Satoko

Chair: MIYAMURA, Hiroyuki (15 : 20~16 : 10)

\* 15:10-15:20: interval for laptop PC connection.(2E4-39, 2E4-41, 2E4-42)

**2E4-39<sup>#</sup>** Catalytic Enantioselective Alkenylation of Aldehydes Using  $\alpha$ -Alkenylaluminum Reagents Generated by Ni-Catalyzed Hydroalumination of Terminal Alkynes (Kyoto Institute of Technology) KUMAR, Ravindra; HARADA, Toshiro

**2E4-41** Catalytic Enantioselective Alkenylation of Aldehydes Using  $\beta$ -Disubstituted Alkenylaluminum Reagents Generated by Zr-Catalyzed Carboalumination of Terminal Alkynes (Kyoto Institute of Technology) MORIMOTO, Haruki; HARADA, Toshiro

**2E4-42\*** Enantioselective Borohydride Reduction of Aliphatic Ketones Catalyzed by Ketoiminatocobalt(III) Complex (Keio Univ.) TSUBO, Tatsuyuki; CHEN, Hsiu-hui; YOKOMORI, Minako; KIKUCHI, Satoshi; YAMADA, Tohru

Chair: KIKUCHI, Satoshi (16 : 20~17 : 20)

\* 16:10-16:20: interval for laptop PC connection.(2E4-45, 2E4-47, 2E4-48, 2E4-49)

**2E4-45\*** Iron-Catalyzed Asymmetric Aerobic Dearomatization of 2-Naphthols (Kyushu Univ.; International Institute for Carbon-Neutral Energy Research, Kyushu University) OGUMA, Takuya; KATSUKI, Tsutomu

**2E4-47** Chiral Zn(II)-bisamidine catalyzed asymmetric Mukaiyama aldol reaction of  $\alpha$ -ketoesters (Univ. of Rikkyo) KISHI, Nobutaka; YAMANAKA, Masahiro

**2E4-48** Development of chiral Ag-Bisamidine Catalyzed Asymmetric Friedel-Crafts Alkylation of Indoles with Nitoroalkenes (Rikkyo University) TAKITA, Kyoko; YAMANAKA, Masahiro

**2E4-49\*** Coupling Reaction of Alkenyl Ether Analogues with Ketene Silyl

Acetals Catalyzed by Gallium Tribromide (Osaka University)  
NISHIMOTO, Yoshihiro; UEDA, Hiroki; IMAOKA, Hiroto; YASUDA, Makoto; BABA, Akio

### Sunday, March 24, AM

Chair: KODAMA, Shin-taro (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(3E4-01, 3E4-02, 3E4-03, 3E4-05, 3E4-06)

- 3E4-01** Cobalt-catalyzed reductive carboxylation of  $\alpha$ ,  $\beta$ -unsaturated nitrile derivatives with carbon dioxide (1) (Keio University) HAYASHI, Takuo; HAYASHI, Chika; KIKUCHI, Satoshi; YAMADA, Tooru
- 3E4-02** Cobalt-catalyzed reductive carboxylation of  $\alpha$ ,  $\beta$ -unsaturated nitrile derivatives with carbon dioxide (2) (Keio University) HAYASHI, Takuo; HAYASHI, Chika; KIKUCHI, Satoshi; YAMADA, Tooru
- 3E4-03\*** Catalytic Hydrogenation of Unactivated Amides Triggered by Hydrogenation of Catalyst Precursor Ruthenium Complex (Grad. Sch. Sci., Nagoya Univ.) MIURA, Takashi; NARUTO, Masayuki; HELD, Ingmar; OISHI, Shunsuke; NOYORI, Ryoji; SAITO, Susumu
- 3E4-05** Development of the Catalytic Synthesis of Pyrroles via in-situ Formed Unmasked  $\alpha$ -Amino Aldehydes Derived from  $\beta$ -Amino Alcohols (Grad. Sch. Sci., Nagoya Univ.) IIDA, Kazuki; MIURA, Takashi; ANDO, Junki; NARUTO, Masayuki; NOYORI, Ryoji; SAITO, Susumu
- 3E4-06** Development of Rh-Catalyzed Cross-Aldol-Type Reaction and its Application to Double-Aldol Reaction (Univ. of Tokyo; ERATO-JST) YAMAMOTO, Kumiko; LIN, Luqing; MATSUNAGA, Shigeki; KANAI, Motomu

Chair: SAITO, Susumu (10 : 10~11 : 00)

\* 10:00-10:10: interval for laptop PC connection.(3E4-08, 3E4-10, 3E4-11, 3E4-12)

- 3E4-08\*** Rh(I)-Catalyzed Intermolecular [6+2] Cycloaddition of 4-Allenals and Alkynes (Faculty of Pharmaceutical Sciences, Hokkaido University) HOSOTANI, Akihito; OONISHI, Yoshihiro; SATO, Yoshihiro
- 3E4-10** Novel Rh(I)-Catalyzed Cyclization via Oxarhodacycle Intermediate: Construction of Bicyclo[5.3.0]decaatriene Skeleton (Faculty of Pharmaceutical Sciences, Hokkaido University) YOKOE, Takayuki; OONISHI, Yoshihiro; HOSOTANI, Akihito; SATO, Yoshihiro
- 3E4-11** Iridium- and Rhodium-Catalyzed  $sp^3$  C-H Bond Silylation and Its Application (Faculty of Pharmaceutical Sciences, Hokkaido University) MICHIGAMI, Kenichi; MITA, Tsuyoshi; SATO, Yoshihiro
- 3E4-12** Nickel-Catalyzed Ring-Opening Hydroalkynylation of Vinylcyclopropane using Triisopropylacetylene (Institute of Science and Engineering, Chuo Univ.) TOH, Ayumi; OGATA, Kenichi; FUKUZAWA, Shin-ichi

Chair: SAITO, Nozomi (11 : 10~12 : 00)

\* 11:00-11:10: interval for laptop PC connection.(3E4-14, 3E4-16, 3E4-17, 3E4-18)

- 3E4-14\*** Visible-Light-Mediated Functionalizations of Amines via  $\alpha$ -Aminoalkyl Radicals as Key intermediates (School of Engineering, The Univ. of Tokyo) NAKAJIMA, Kazunari; ASHIDA, Yuya; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki
- 3E4-16** Functionalization of Fullerene Based on Generation of  $\alpha$ -Aminoalkyl Radicals Mediated by Visible-Light-Induced Electron Transfer (School of Engineering, The Univ. of Tokyo) ASHIDA, Yuya; NAKAJIMA, Kazunari; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki
- 3E4-17** Visible-Light-Mediated Addition of Benzyl Radicals Generated from Decarboxylation of Arylacetic Acids toward Electron Deficient Alkenes (School of Engineering, The Univ. of Tokyo) NAKAJIMA, Kazunari; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki
- 3E4-18** (*E*)-, (*Z*)-Stereo-complementary total synthesis of SSRI, Zimelidine utilizing stereoselective enol tosylations and stereoretentive cross-coupling reactions. (Department of Chemistry, School of Science and Technology, Kwansai Gakuin Univ.) ASHIDA, Yuichiro; SUZUKI, Takeyuki; TANABE, Yoo

### Sunday, March 24, PM

Chair: MIYAKE, Yoshihiro (14 : 20~15 : 20)

\* 14:10-14:20: interval for laptop PC connection.(3E4-33, 3E4-34, 3E4-35, 3E4-37, 3E4-38)

- 3E4-33** Research on the new synthesis of imides by palladium-catalyzed coupling reactions of boranes and stannanes (Waseda Univ., Graduate school of Advanced Sci. and Engin.) TOMIZAWA, Takeuchi; ORIMOTO, Kohei; NAKADA, Masahisa
- 3E4-34** Construction of the 1,4-Diene Skeletons by the Suzuki-Miyura-Type Coupling (Kochi Univ. Faculty of Science) NAKANO, Keiji; NOGAMI, Yukina
- 3E4-35\*** Silver Catalyzed Chemical Fixation of Carbon Dioxide with Activation of C-C Triple Bond (Keio University) KIKUCHI, Satoshi; SEKINE, Kohei; ISHIDA, Tomonobu; YAMADA, Tooru
- 3E4-37** Development of Catalytic Hydrogenation Processes of Cosmetic Compounds Using Continuous Flow Reactors (Graduate School of Science, The University of Tokyo., GSC Social Cooperation Laboratory, Cosmos Technical Center CO.,LTD.) WATANABE, Yuhya; AKATSUKA, Yuichi;

OYAMADA, Hidekazu; KOBAYASHI, Shu

- 3E4-38** Development of Continuous Flow Hydrogenation Using Polysilane-supported Palladium Catalysts (Graduate School of Science, The Univ. of Tokyo) OKUMURA, Mikiko; MIYAMURA, Hiroyuki; OYAMADA, Hidekazu; KOBAYASHI, Shu

Chair: NAKANO, Keiji (15 : 30~16 : 30)

\* 15:20-15:30: interval for laptop PC connection.(3E4-40, 3E4-41, 3E4-43, 3E4-44, 3E4-45)

- 3E4-40\*** Cooperative Catalytic System of Platinum/Iridium Alloyed Nanoclusters and a Catechol Derivative: An Efficient Synthesis of Quinazolines Through a Sequential Aerobic Oxidative Process (Graduate School of Science, The Univ. of Tokyo) YUAN, Hao; YOO, Woo-jin; MIYAMURA, Hiroyuki; KOBAYASHI, Shu
- 3E4-41\*** Development of electrophilic trifluoromethylation of olefins (RIKEN) SHIMIZU, Ryo; EGAMI, Hiromichi; HAMASHIMA, Yoshitaka; SODEOKA, Mikiko
- 3E4-43** Study on  $S_N2'$  Alkylation of trifluoromethylated allyl alcohols (RIKEN) USUI, Yoshihiko; EGAMI, Hiromichi; SHIMIZU, Ryo; CHIHARA, Teiji; SODEOKA, Mikiko
- 3E4-44** Trifluoromethylation of olefins coupled with C-C bond formation (ERATO-JST, RIKEN) EGAMI, Hiromichi; SHIMIZU, Ryo; KAWAMURA, Shintaro; SODEOKA, Mikiko
- 3E4-45** Silver-Catalyzed  $CO_2$  Incorporation into Secondary Propargylic Alcohols (Keio Univ.) UGAIJIN, Rie; KIKUCHI, Satoshi; YAMADA, Tooru

Chair: HAMASHIMA, Yoshitaka (16 : 40~17 : 40)

\* 16:30-16:40: interval for laptop PC connection.(3E4-47, 3E4-48, 3E4-49, 3E4-50, 3E4-51, 3E4-52)

- 3E4-47** Silver-Catalyzed  $CO_2$  Incorporation into *o*-Alkynylaniline Derivatives (Keio Univ.) ISHIDA, Tomonobu; KIKUCHI, Satoshi; TSUBO, Tatsuyuki; YAMADA, Tooru
- 3E4-48** C-C Bond Formation with Carbon Dioxide Promoted by a Silver Catalyst (1) (Fac. Sci. Tech., Keio Univ.) SEKINE, Kohei; ISHIDA, Tomonobu; KIKUCHI, Satoshi; YAMADA, Tooru
- 3E4-49** C-C Bond Formation with Carbon Dioxide Promoted by a Silver Catalyst (2) (Fac. Sci. Tech., Keio Univ.) TAKAYANAGI, Ayano; SEKINE, Kohei; KIKUCHI, Satoshi; YAMADA, Tooru
- 3E4-50** Gold-catalyzed Cyclization of 1-Arylbut-3-yn-1-ol. Synthesis of Substituted Naphthalenes. (Graduate School of Sci., Osaka City Univ.) SHIMODA, Airi; OKADA, Takuya; SHINADA, Tetsuro; SAKAGUCHI, Kazuhiko; OHFUNE, Yasufumi
- 3E4-51** Zn-Catalyzed Direct Substitution of Alcohols with Various Nucleophiles (Graduate School of Engineering Science, Osaka University) NAKAHARA, Yasuhiro; KANDULA, Sathiaiah; KITA, Yusuke; MASHIMA, Kazushi
- 3E4-52** The Development of Metal Antimonate-Catalyzed Oxidative Allylation Reactions of Amino Acid Derivatives (Graduate School of Science, The Univ. of Tokyo) TANOUE, Arata; YOO, Woo-jin; KOBAYASHI, Shu

### Monday, March 25, AM

Chair: YASUDA, Makoto (9 : 00 ~ 9 : 50)

\* 8:50-9:00: interval for laptop PC connection.(4E4-01, 4E4-03, 4E4-04)

- 4E4-01\*** Zinc hydroxide catalyzed alkylation reactions in aqueous media: specific organic reactions only occurred in the presence of water (Graduate School of Science, The Univ. of Tokyo) UENO, Masaharu; ENDO, Toshimitsu; YOSHINO, Takumi; SCHNEIDER, Uwe; KOBAYASHI, Shu
- 4E4-03** Development of allylation of aldehydes using immobilized zinc hydroxide catalysts and application to the flow synthesis (Graduate School of Science, The Univ. of Tokyo) YOSHINO, Takumi; UENO, Masaharu; KOBAYASHI, Shu
- 4E4-04\*** New possibility of metal amides as highly functionalized catalysts (Graduate School of Science, The Univ. of Tokyo) YAMASHITA, Yasuhiro; KOBAYASHI, Shu

Chair: MIYAMURA, Hiroyuki (10 : 00~10 : 50)

\* 9:50-10:00: interval for laptop PC connection.(4E4-07, 4E4-08, 4E4-09, 4E4-10, 4E4-11)

- 4E4-07** Direct Alkynylation of Acetals with Terminal Alkynes Catalyzed by Zinc Chloride (Osaka University) SUZUKI, Itaru; YASUDA, Makoto; BABA, Akio
- 4E4-08** Lewis Acid-Catalyzed Stereoselective [2+2] Cycloaddition Reaction of Dimethyl Trifluoroethylidene Malonate with Styrenes (Shimane Univ.; Kyushu Univ.) ANAYAMA, Yuma; KOBAYASHI, Hidenari; TAHARA, Satoko; KOBAYASHI, Tomoki; TANAKA, Junji; WADA, Eiji
- 4E4-09** Oxidative Debenzylation of Benzyl amines and Benzyl ethers Using Alkali Metal Bromide. (Chiba Univ.) NAKAMURA, Yuu; MORIYAMA, Katsuhiko; TOGO, Hideo
- 4E4-10** Environmentally Benign Oxidation of Alcohols Using Alkali Metal Salt Catalyst (Chiba Univ., Graduate School of Science) TAKEMURA, Misato; MORIYAMA, Katsuhiko; TOGO, Hideo
- 4E4-11** One-pot Conversion of Aromatic Bromides into Esters and Amides via Aryl Trichloromethyl Ketones (Chiba Univ. Graduate School of Science)

DOHI, Soya; MORIYAMA, Katsuhiko; TOGO, Hideo

Chair: MORIYAMA, Katsuhiko (11 : 00~11 : 50)

\* 10:50-11:00: interval for laptop PC connection.(4E4-13, 4E4-14, 4E4-16, 4E4-17)

**4E4-13** Rapid analytical method of catalytic reactions using mass spectrometry (Graduate School of Science, The Univ. of Tokyo) MASUDA, Koichiro; YAMAGUCHI, Miyuki; KOBAYASHI, Shu**4E4-14\*** Development of synthetic organic reactions based on aerobic oxidation and reaction integration catalyzed by immobilized metal nanocluster catalysts (Graduate School of Science, The Univ. of Tokyo) MIYAMURA, Hiroyuki; KOBAYASHI, Shu**4E4-16** Heterogeneous Gold Nanoparticles and Cobalt as Dual Catalysts to Promote Selective Direct Amidation from Aldehydes and Amines Under Aerobic Conditions (Graduate School of Science, The Univ. of Tokyo) MIN, Hyemin; SOULE, Jean-francois; MIYAMURA, Hiroyuki; KOBAYASHI, Shu**4E4-17** Integration of aerobic oxidation and asymmetric C-C bond formation reaction facilitated by well-organised heterogeneous catalysts (Graduate School of Science, The Univ. of Tokyo) CHOO, Chong Yu Gerald; YASUKAWA, Tomohiro; MIYAMURA, Hiroyuki; YOO, Woo-jin; KOBAYASHI, Shu

## Room E5

FOREST HOUSE F205

### Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds

Friday, March 22, AM

Chair: URAGUCHI, Daisuke (9 : 50 ~10 : 50)

\* 9:40-9:50: interval for laptop PC connection.(1E5-06, 1E5-07, 1E5-08, 1E5-09, 1E5-10, 1E5-11)

**1E5-06** 1,3-Alkyl Migration of 1,2,2-Substituted Amino-3-butene (Graduate School of Science, Tohoku Univ.) KANAI, Chihiro; MOMIYAMA, Norie; TERADA, Masahiro**1E5-07** Mechanistic Studies of Chiral Phosphoric Acid Catalyzed Stereoselective Aza-Petasis-Ferrier Rearrangement Based on Theoretical Calculations (Graduate School of Science, Tohoku Univ.) KOMURO, Takazumi; TODA, Yasunori; KORENAGA, Toshinobu; TERADA, Masahiro**1E5-08** Chiral Perfluoro Binaphthyl Phosphoric Acid catalyzed Enantioselective Imino-ene Reaction (Graduate School of Science, Tohoku Univ.) OKAMOTO, Hiroshi; MOMIYAMA, Norie; TERADA, Masahiro**1E5-09** Chiral Phosphoric Acid Catalyzed Transfer Hydrogenation of Trifluoromethylated Ketimines without N-substituent (Faculty of Science, Gakushuin University) SATO, Takahiro; MORI, Keiji; AKIYAMA, Takahiko**1E5-10** Enantioselective Transfer Hydrogenation of  $\alpha, \alpha$ -Difluoromethylketimines by Use of Benzothiazoline as a Hydrogen Donor in Combination with Chiral Phosphoric Acid (Faculty of Science, Gakushuin University) SAKAMOTO, Tsubasa; MORI, Keiji; AKIYAMA, Takahiko**1E5-11** Chiral Phosphoric Acid-Catalyzed Enantioselective Three-component Mannich-type Reaction with Aliphatic Aldehydes (Faculty of Science, Gakushuin University) SHIBATA, Michiko; OGAWA, Kohei; MORI, Keiji; AKIYAMA, Takahiko

Chair: AKIYAMA, Takahiko (11 : 00~11 : 40)

\* 10:50-11:00: interval for laptop PC connection.(1E5-13, 1E5-14, 1E5-15, 1E5-16)

**1E5-13** Asymmetric Conjugate Addition of Nitroalkanes to Vinylsulfones (Grad. Sch. Eng., Nagoya Univ.) NAKAMURA, Shinji; URAGUCHI, Daisuke; OOI, Takashi**1E5-14** Development of Highly Regio-, Diastereo-, and Enantioselective 1,6- and 1,8-Additions (Grad. Sch. Eng., Nagoya Univ.) YOSHIOKA, Ken; URAGUCHI, Daisuke; OOI, Takashi**1E5-15** Facile construction of polycyclic skeletons by employing dioxanone-derivative (Department of Chemistry, Tokyo Institute of Technology) AOKI, Yoshifumi; MOCHIZUKI, Yuta; YOSHINARI, Tomohiro; OHMORI, Ken; SUZUKI, Keisuke**1E5-16** Synthetic studies of piperidine alkaloid himbacine using intramolecular Diels-Alder reaction (Tokyo Institute of Technology) KITAMURA, Jun; AOKI, Yoshifumi; OHMORI, Ken; SUZUKI, Keisuke

Friday, March 22, PM

Chair: HARAGUCHI, Naoki (13 : 10~14 : 10)

\* 13:00-13:10: interval for laptop PC connection.(1E5-26, 1E5-27, 1E5-28, 1E5-29, 1E5-30, 1E5-31)

**1E5-26** Synthesis of chiral  $\alpha$ -Hetero Carboxylic Acids via Catalytic Asymmetric Protonation (Grad. Sch. Eng., Nagoya Univ.) OHIRA, Yuki; KIZU,

Tomohito; URAGUCHI, Daisuke; OOI, Takashi

**1E5-27** Catalytic Asymmetric Oxidation of *N*-Sulfonylimines Using Hydrogen Peroxide (Grad. Sch. Eng., Nagoya Univ.) TSUTSUMI, Ryosuke; URAGUCHI, Daisuke; OOI, Takashi**1E5-28** Kinetic resolution of secondary alcohols using new axially chiral diamine catalysts (Okayama Univ.) AKEHI, Masaru; MANDAI, Hiroki; SUGA, Seiji**1E5-29** Development of new axially chiral DMAP derivatives and application to asymmetric Steglich rearrangement. (Okayama Univ.) YURI, Kazunobu; AKEHI, Masaru; MANDAI, Hiroki; SUGA, Seiji**1E5-30** Kinetic resolution of a planar-chiral ferrocene by a peptide catalyst (Inst. Ind. Sci., Univ. of Tokyo) AKIYAMA, Midori; AKAGAWA, Kenko; KUDO, Kazuaki**1E5-31** Asymmetric Michael reaction using the peptide catalyst with a primary amino group (Inst. Ind. Sci., Univ. of Tokyo) SUZUKI, Rieko; AKAGAWA, Kenko; KUDO, Kazuaki

Chair: AKAGAWA, Kenko (14 : 20~15 : 20)

\* 14:10-14:20: interval for laptop PC connection.(1E5-33, 1E5-34, 1E5-35, 1E5-36, 1E5-37, 1E5-38)

**1E5-33** Synthesis of novel bisoquinolinium salt derivatives having axial chirality (Graduate School of Engineering, Toyohashi University of Technology) SUZUKI, Yuki; HARAGUCHI, Naoki; ITSUNO, Shinichi**1E5-34** Asymmetric alkylation using cinchonidine quaternary ammonium salts containing sulfonamide (Toyohashi University of Technology) YAMAMOTO, Shunya; HARAGUCHI, Naoki; ITSUNO, Shinichi**1E5-35** Enantioselective intramolecular hydroaminations catalyzed by a chiral brnsted acid bearing a neighboring strong acid moiety (Department of Chemistry, Graduate School of Science, Hiroshima University) SAKAI, Yuichiro; TAKAGI, Ryukichi; ABE, Manabu**1E5-36** Chiral Phosphoric Acid Catalyzed Kinetic Resolution of Indolines via Hydrogen Transfer to Imines (Gakushuin Univ.) SAITO, Kodai; AKIYAMA, Takahiko**1E5-37** Construction of All-Carbon Quaternary Stereocenter by Asymmetric Friedel-Crafts Reaction of Indole with *B*-Alkoxy carbonyl-Nitrostyrene by means of Chiral Phosphoric Acid (Faculty of Science, Gakushuin University) WAKAZAWA, Manari; MORI, Keiji; AKIYAMA, Takahiko**1E5-38** Reduction of Nitro Group by Use of Benzothiazoline as a Reducing Agent (Faculty of Science, Gakushuin University) YAMAMOTO, Ryota; MORI, Keiji; AKIYAMA, Takahiko

Chair: MISAKI, Tomonori (15 : 30~16 : 20)

\* 15:20-15:30: interval for laptop PC connection.(1E5-40, 1E5-41, 1E5-42, 1E5-43, 1E5-44)

**1E5-40** Development of Synthesis of Novel Chiral P2 Phosphazene (Graduate School of Science, Tohoku Univ.) DAN, Katsunori; KONDOH, Azusa; TERADA, Masahiro**1E5-41** Mechanistic Study on Enantioselective 1,4-Reduction of Benzopyrylium Ion as a Reactive Intermediate Catalyzed by a Chiral Bronsted Acid (Graduate School of Science, Tohoku Univ.) YAMANAKA, Takuto; TODA, Yasunori; KORENAGA, Toshinobu; TERADA, Masahiro**1E5-42** Development of Chiral Bronsted Acid Catalyzed Petasis-Ferrier-Type Rearrangement and Its Theoretical Study (Graduate School of Science, Tohoku Univ.) KANOMATA, Kyohei; TODA, Yasunori; GRIDNEV, Ilya; TERADA, Masahiro**1E5-43** Tail-to-Tail Dimerization of Methyl Methacrylate by *N*-Heterocyclic Carbene Catalyst (Nagoya Institute of Technology) KATO, Terumasa; OTA, Yoshiya; MATSUOKA, Shin-ichi; TAKAGI, Koji; SUZUKI, Masato**1E5-44** *N*-Heterocyclic Carbene Catalyzed Cyclotramerization of Methyl Acrylate (Nagoya Institute of Technology) NAMERA, Shoko; WASHIO, Atsushi; MATSUOKA, Shin-ichi; TAKAGI, Koji; SUZUKI, Masato

Chair: MINAMI, Tatsuya (16 : 30~17 : 20)

\* 16:20-16:30: interval for laptop PC connection.(1E5-46, 1E5-47, 1E5-48, 1E5-49, 1E5-50)

**1E5-46** Development of Catalytic Asymmetric  $\alpha$ -Hydroxylation of Pyranoindolizine Derivatives Using Novel Guanidine-Urea Bifunctional Organocatalyst (Tokyo University of Agriculture and Technology) ODAGI, Minami; WATANABE, Tatsuya; NAGAWARA, Kazuo**1E5-47** Asymmetric  $\alpha$ -hydroxylation of  $\beta$ -dicarbonyl compounds using guanidine-urea bifunctional organocatalyst (Tokyo University of Agriculture and Technology) FURUKORI, Kota; ODAGI, Minami; WATANABE, Tatsuya; NAGASAWA, Kazuo**1E5-48** Enantioselective Addition of Diethylzinc to Aldehyde by a Use of 1,3- or 1,4-Amino Alcohol Having Chiral Amino Moiety (Yokohama National Univ.) ASAMI, Masatoshi; KITAYAMA, Takumi; HOSODA, Naoya; YAMAGUCHI, Yoshitaka**1E5-49** Catalytic enantioselective alkylation of aldehydes by using *o*-xylylene type 1,4-amino alcohol having chiral amino moiety (Graduate School of Engineering, Yokohama National Univ.) MATSUDA, Kouhei; MIYAJIMA, Akane; HOSODA, Naoya; ASAMI, Masatoshi**1E5-50** Asymmetric Michael Addition of Benzoylacetates to Cyclic Enones Catalyzed by a Primary  $\beta$ -Amino Acid Salt and Its Application for the Synthesis of Enantioenriched 1,5-Diketones (Faculty of Engineering, Hokkaido University) YOSHIDA, Masanori; KUBARA, Ami; HARA, Shoji

Chair: NAGASAWA, Kazuo (17 : 30~18 : 20)

- \* 17:20-17:30: interval for laptop PC connection.(1E5-52, 1E5-53, 1E5-54, 1E5-55, 1E5-56)
- 1E5-52** Asymmetric Henry reaction catalyzed by chiral biaryl-based bis (thiourea) organocatalyst (Fukuoka Univ. of Education) NAKAYAMA, Yuki; ITO, Katsuji
- 1E5-53** DBU-mediated synthesis of Carbonates from Carbon Dioxide. (Saga Univ.) INOUE, Yusuke; KITAMURA, Tsugio
- 1E5-54** Synthesis of Fluorine-Substituted Cyclopentenones via Organocatalyzed Generation of Difluorocarbene (Faculty of Pure and Applied Sciences, University of Tsukuba) FUCHIBE, Kohei; TAKAYAMA, Ryo; AONO, Tatsuya; ICHIKAWA, Junji
- 1E5-55** Enantioselective Aza Diels-Alder Reaction between Unactivated Dienes and Imines Catalyzed by Chiral Bronsted Acids. (Osaka City University) NANTAKU, Shuto; ISHIMURA, Toshiki; HATANAKA, Yasuo; MINAMI, Tatsuya
- 1E5-56** Development of conjugate addition reactions of 5H-Oxazol-4-ones using chiral guanidine catalysts (Grad. Sch. Mat. Sci., Univ. of Hyogo) JIN, Nari; MISAKI, Tomonori; SUGIMURA, Takashi

## Saturday, March 23, AM

Chair: MORIYAMA, Katsuhiko (9 : 10 ~10 : 10)

- \* 9:00-9:10: interval for laptop PC connection.(2E5-02, 2E5-03, 2E5-04, 2E5-05, 2E5-06, 2E5-07)
- 2E5-02** Chiral Thiourea/PPY-catalyzed Asymmetric Michael Addition Reaction-1. Application to the Diastereoselective Reaction (Kochi Univ., Faculty of Science) WATANABE, Naruhisa; MIYAMAE, Naomu; MORITAKA, Maya; KOTSUKI, Hiyoshizo
- 2E5-03** Chiral Thiourea/PPY-catalyzed Asymmetric Michael Addition Reaction-2. Application to the Chiral Discriminative Michael Addition Reaction of Cyclohexadienones (Kochi Univ., Faculty of Science) MIYAMAE, Naomu; WATANABE, Naruhisa; MORITAKA, Maya; KOTSUKI, Hiyoshizo
- 2E5-04** Development of Chiral Nucleophilic Phosphite Catalysts for Enantioselective Iodolactonization (Nagoya Univ.; Okayama Univ.; CREST) NAKATSUJI, Hidefumi; SAWAMURA, Yasuhiro; SAKAKURA, Akira; ISHIHARA, Kazuaki
- 2E5-05** Nucleophilic Phosphite(III)-Catalyzed Selective Bromocyclization of Polyprenoids (Nagoya Univ.; Okayama Univ.; CREST) SAWAMURA, Yasuhiro; NAKATSUJI, Hidefumi; SAKAKURA, Akira; ISHIHARA, Kazuaki
- 2E5-06** Kinetic Resolution of Racemic Carboxylic Acids Catalyzed by Chiral Lewis Base-Assisted Bronsted Acid (LBBA) through Asymmetric Lactonization (Nagoya Univ. CREST; Okayama Univ.) SAKUMA, Masayuki; SAKAKURA, Akira; ISHIHARA, Kazuaki
- 2E5-07** N-Heterocyclic Carbene Catalyzed Oxidative Coupling of Aldehydes with Carbodiimides: Effective Synthesis of *N*-Acylureas (Kanazawa Univ., Graduate School of Natural Science and Technology) TABATAKE, Yuhta; SOETA, Takahiro; UKAJI, Yutaka

Chair: SAKAKURA, Akira (10 : 20~11 : 10)

- \* 10:10-10:20: interval for laptop PC connection.(2E5-09, 2E5-10, 2E5-11, 2E5-12, 2E5-13)
- 2E5-09** Preparation and Synthetic use of Novel Ion-Supported (diacetoxiodo)benzenes (Chiba Univ. Graduate School of Science) IINUMA, Masataka; MORIYAMA, Katsuhiko; TOGO, Hideo
- 2E5-10** Environmentally benign amidation of carboxylic acids with ion-supported triphenylphosphine (Chiba Univ.) KAWAGOE, Yusuke; MORIYAMA, Katsuhiko; TOUGOU, Hideo
- 2E5-11** Organocatalytic Michael Addition Using 2-Aminopyridine Catalyst Based on Molecular Recognition (Shizuoka University) KATO, Takahiro; MASE, Nobuyuki
- 2E5-12** Fluorescence-based Rapid Screenings for Superior Organocatalyst in Synthesis of Quaternary Carbon-Containing Aldols (Shizuoka University) ITO, Hiroshi; SASAKI, Aiko; MASE, Nobuyuki
- 2E5-13** Organocatalytic Synthesis of High Purity Polylactide in Supercritical Carbon Dioxide: Development of Carbon Dioxide Plasticizing Polymerization (Shizuoka University) YAMAMOTO, Shoji; KUMAZAWA, Fumihiko; MASE, Nobuyuki

Chair: HAYASHI, Yujiro (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(2E5-15, 2E5-16, 2E5-17, 2E5-18)
- 2E5-15** Synthesis and Application of Novel Phase-Transfer Catalysts Derived from Commercially Available Chiral Phosphines (Department of Chemistry, Graduate School of Science, Kyoto University) KASAI, Atsuyuki; TOKUDA, Takashi; SHIRAKAWA, Seiji; MARUOKA, Keiji
- 2E5-16** Construction of Chiral Quaternary Carbon Centers by the Phase-Transfer Catalyzed Alkylation of Cyclic Ketones and Its Application (Kyoto Univ.; Graduate School of Science) HAYASHI, Yumi; KANO, Taichi; MARUOKA, Keiji
- 2E5-17** Oxidation of Unactivated sp<sup>3</sup> CH by *in-situ* Generated (Diphenylphosphinoyl)oxyl Hypervalent Iodine Reagent (Department of Chemistry, Graduate School of Science, Kyoto University) USUI, Asuka; MOTEGI, Shin; MARUOKA, Keiji

- 2E5-18** CSJ Award for Young Chemists Development of Practical Synthetic Transformations by the Control of Acid-catalyzed Reactions of Diazocarbonyl Compounds (Grad. Sch. Sci., Kyoto Univ.) HASHIMOTO, Takuya

## Saturday, March 23, PM

Chair: AKIYAMA, Takahiko (13 : 30~14 : 20)

- \* 13:20-13:30: interval for laptop PC connection.(2E5-28, 2E5-31)
- 2E5-28** Young Scholar Lectures of CSJ New Insight into Asymmetric Phase-Transfer Reaction -Development of Environmentally Benign Base-Free Neutral Reaction System- (Graduate School of Science, Kyoto University) Shirakawa, Seiji
- 2E5-31\*** Parallel Kinetic Resolution of  $\alpha$ -Ferrocenyl Cations Catalyzed by Chiral Bronsted Acid (Graduate School of Science, Tohoku Univ.) TODA, Yasunori; TERADA, Masahiro

Chair: SOETA, Takahiro (14 : 30~15 : 20)

- \* 14:20-14:30: interval for laptop PC connection.(2E5-34, 2E5-36, 2E5-37, 2E5-38)
- 2E5-34\*** Enantio- and diastereoselective Nitro-Michael Reaction Catalyzed by Cinchona Alkaloids (Osaka City University) SEKIKAWA, Tohru; CHINNZEI, Tatsuya; HATANAKA, Yasuo; MINAMI, Tatsuya
- 2E5-36** Asymmetric Aldol Reaction of Formaldehyde Catalyzed by Diarylprolinol (Graduate School of Science, Tohoku University) YASUI, Yusuke; HAYASHI, Yujiro
- 2E5-37** Asymmetric Aldol Reaction of Glyoxal Catalyzed by Diarylprolinol (Graduate School of Science, Tohoku University) HAYASHI, Yujiro; KOJIMA, Masahiro
- 2E5-38** Asymmetric Aldol Reaction of Alkynyl Aldehyde Catalyzed by Diarylprolinol (Graduate School of Science, Tohoku University) HAYASHI, Yujiro; KOJIMA, Masahiro; KANDA, Yuta; YASUI, Yusuke

Chair: HASHIMOTO, Takuya (15 : 30~16 : 20)

- \* 15:20-15:30: interval for laptop PC connection.(2E5-40, 2E5-41, 2E5-42, 2E5-43)
- 2E5-40** Chiral Phosphoric Acid Catalyzed Asymmetric Transfer Hydrogenation of Aromatic Ketimine Derivatives using Benzothiazoline as a Hydrogen Donor (Gakushuin Univ.) Horiguchi, Kosaku; SAITO, Kodai; AKIYAMA, Takahiko
- 2E5-41** Steric Control Mechanisms in Chiral Phosphoric Acid Catalyzed Asymmetric Transfer Hydrogenation of Ketimine: Comparison of Benzothiazoline and Hantzsch Ester (Rikkyo University) SHIBATA, Yukihiko; YAMANAKA, Masahiro
- 2E5-42** Theoretical Study on 4-Pyrrolidinopyridine Catalyzed Chemoselective Monocyclization of Linear Diols (Rikkyo University) SATO, Makoto; YAMANAKA, Masahiro; TSUDA, Ayumi; HURUTA, Takumi; KAWABATA, Takeo
- 2E5-43\*** Cinchona alkaloid amide/copper catalyzed asymmetric vinylogous Mannich reaction of ketimines. (Nagoya Institute of Technology) HAYASHI, Masashi; SANO, Masahide; NAKAMURA, Shuichi

Chair: MASE, Nobuyuki (16 : 30~17 : 20)

- \* 16:20-16:30: interval for laptop PC connection.(2E5-46, 2E5-48, 2E5-49, 2E5-50)
- 2E5-46\*** Total Synthesis of Prostaglandin E1 Methyl Ester by Three Pots Sequences (Graduate School of Science, Tohoku University) UMEMIYA, Shigenobu; HAYASHI, Yujiro
- 2E5-48** Development of Novel Chiral P3 Phosphazene Superbase Catalyst (Graduate School of Science, Tohoku Univ.) GOTO, Kengo; TERADA, Masahiro
- 2E5-49** Development of Novel Herically Chiral Spiro P3 Phosphazene Superbase Catalyst (Graduate School of Science, Tohoku Univ.) OISHI, Masafumi; GOTO, Kengo; TERADA, Masahiro
- 2E5-50** Development of New Optically Active Guanidinophosphazene Organosuperbase Catalyst and Its Application to Catalytic Asymmetric Reactions (Graduate School of Science, Tohoku Univ.; Daiichi Sankyo Co., LTD.) TAKEDA, Tadahiyo; TERADA, Masahiro

## Sunday, March 24, AM

Chair: NAKATA, Kenya (9 : 50 ~10 : 50)

- \* 9:40-9:50: interval for laptop PC connection.(3E5-06, 3E5-07, 3E5-08, 3E5-09, 3E5-10, 3E5-11)
- 3E5-06** Development of Highly Enantioselective Cyano-Ethoxycarbonylation of Isatin Derivatives (Nagoya Univ.; Okayama Univ.; CREST) OGURA, Yoshihiro; SAKAKURA, Akira; ISHIHARA, Kazuaki
- 3E5-07** Synthesis of Chiral Binaphthyl Pyrophosphate and Development to Chiral Bronsted Acid Catalysts (Nagoya Univ.; Okayama Univ.; CREST) OKAMOTO, Haruka; NAKATSUJI, Hidefumi; SAKAKURA, Akira; ISHIHARA, Kazuaki
- 3E5-08** Enantioselective Diels-Alder Reaction of 1,2-Dihydropyridines with  $\alpha$ -Heterosubstituted Acroleins Catalyzed by Chiral Primary Ammonium Salts. (Nagoya Univ.; CREST) YAMADA, Hiroki; ISHIHARA, Kazuaki
- 3E5-09** Application of quinone imine ketals in axially chiral dicarboxylic acid

catalysis (Department of Chemistry, Graduate school of Science, Kyoto University) NAKATSU, Hiroki; HASHIMOTO, Takuya; MARUOKA, Keiji

- 3E5-10<sup>#</sup>** Development of chiral carboxylic acid catalyst based on the self-assembly of an ortho-carboxyphenylboronic acid and a chiral diol (Graduate School of Science, Kyoto University) OSUNA GALVEZ, Alberto; HASHIMOTO, Takuya; MARUOKA, Keiji
- 3E5-11** Chiral Thiyl Radical-Catalyzed Asymmetric [3+2] Cycloaddition (Graduate School of Science, Kyoto University) KAWAMATA, Yu; HASHIMOTO, Takuya; MARUOKA, Keiji

Chair: UYANIK, Muhammet (11:00~11:50)

- \* 10:50-11:00: interval for laptop PC connection.(3E5-13, 3E5-14, 3E5-15, 3E5-16, 3E5-17)
- 3E5-13** Development of 1,4-addition reactions of nitriles using organosuperbases as catalysts (Graduate School of Science, the Univ. of Tokyo) NAKANO, Junya; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 3E5-14<sup>#</sup>** Efficient synthesis of nitrogen containing compounds via organosuperbase catalysis (Graduate School of Science, the Univ. of Tokyo) HONEY, Mark; NAKANO, Junya; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 3E5-15** Study of the Structure of Highly Active Chiral Titanium Catalysts Derived from 3-Aryl-H<sub>2</sub>-BINOLs (Kyoto Institute of Technology) UENISHI, Ami; HARADA, Toshiro
- 3E5-16** Kinetic Resolution of Racemic 2-Hydroxylactones and 2-Hydroxylactams by the Asymmetric Esterification Using MA-BTM Combined System (Tokyo Univ. of Science) NAKATA, Kenya; KITAJIMA, Hirota; SHIINA, Isamu
- 3E5-17** Kinetic Resolution of Racemic Secondary Benzylic Alcohols with Free Carboxylic Acids by Asymmetric Esterification Using Pyridine-3-carboxylic Anhydride (3-PCA) as a Coupling Reagent (Tokyo Univ. of Science) NAKATA, Kenya; ONO, Keisuke; SHIINA, Isamu

### Sunday, March 24, PM

Chair: OHMATSU, Kohsuke (14:20~15:20)

- \* 14:10-14:20: interval for laptop PC connection.(3E5-33, 3E5-34, 3E5-35, 3E5-36, 3E5-38)
- 3E5-33** Unusual Anti-Selective Conjugate Addition of Aldehyde to Nitroolefin Catalyzed by a Biaryl-based Secondary Amine (Graduate School of Science, Kyoto University) SUGIMOTO, Hisashi; KANO, Taichi; MARUOKA, Keiji
- 3E5-34** Development of asymmetric hydroxyamination of aldehydes with an in-situ generated nitroso compound using a secondary amine catalyst (Graduate School of Science, Kyoto University) SHIROZU, Fumitaka; KANO, Taichi; MARUOKA, Keiji
- 3E5-35** Enantioselective Construction of All-Carbon Quaternary Stereocenter by Mannich-type Reaction of Alkynyl-Substituted Imine Precursor (Graduate School of Science, Kyoto University) YURINO, Taiga; KANO, Taichi; MARUOKA, Keiji
- 3E5-36\*** Chiral Hypervalent Iodine(III)-Catalyzed Enantioselective Oxidative Dearomatization of Phenols and the Reaction Mechanism (Nagoya Univ.) YASUI, Takeshi; UYANIK, Muhammet; ISHIHARA, Kazuaki
- 3E5-38** Chiral Hypervalent Iodine(III)-Catalyzed Enantioselective Oxidative Dearomatization of Phenols to *ortho*-Benzoquinone Monoacetals (Nagoya Univ.) SASAKURA, Niiha; UYANIK, Muhammet; ISHIHARA, Kazuaki

Chair: HAYASHI, Masahiko (15:30~16:30)

- \* 15:20-15:30: interval for laptop PC connection.(3E5-40, 3E5-41, 3E5-42, 3E5-43, 3E5-44, 3E5-45)
- 3E5-40** Enantioselective Oxidative Cycloamination Catalyzed by Chiral (Hypo)iodite Species (Nagoya Univ.) SUZUKI, Daisuke; OKAMOTO, Hiroaki; UYANIK, Muhammet; ISHIHARA, Kazuaki
- 3E5-41** Enantioselective Synthesis of 2-Acylchroman Derivatives Using Chiral (Hypo)iodite Catalysts (Nagoya Univ.) HAYASHI, Hiroki; UYANIK, Muhammet; ISHIHARA, Kazuaki
- 3E5-42** Chiral (Hypo)iodite-Catalyzed Enantioselective Oxidative Dearomatization of 1-Naphthol Derivatives (Nagoya Univ.) OHORI, Kento; YASUI, Takeshi; UYANIK, Muhammet; ISHIHARA, Kazuaki
- 3E5-43** Asymmetric Alkylation of Oxindoles with Racemic Secondary Halides Catalyzed by Chiral 1,2,3-Triazolium Salts (Grad. Sch. of Eng., Nagoya Univ.) HAKAMATA, Yusuke; OHMATSU, Kohsuke; OOI, Takashi
- 3E5-44** Chiral 1,2,3-Triazolium Salt-Catalyzed Asymmetric Reactions of  $\alpha$ -Cyano  $\alpha$ -Sulfonyl Carbanions (Grad. Sch. of Eng., Nagoya Univ.) GOTO, Ayano; OHMATSU, Kohsuke; OOI, Takashi
- 3E5-45** 1,2,3-Triazolium Salts-Catalyzed Ring Openings of Racemic 2,2-Disubstituted Aziridines with Oxindoles for Asymmetric Construction of Contiguous All-Carbon Quaternary Stereocenters. (Grad. Sch. of Eng., Nagoya Univ.) ANDO, Yuichiro; OHMATSU, Kohsuke; OOI, Takashi

Chair: HATANO, Manabu (16:40~17:40)

- \* 16:30-16:40: interval for laptop PC connection.(3E5-47, 3E5-49, 3E5-50, 3E5-51, 3E5-52)
- 3E5-47\*** Mechanistic Studies of the Dynamic Kinetic Resolution of Racemic 2-Arylalkanoic Acids Using MA-BTM Combined System (Tokyo Univ. of Science) ONO, Keisuke; TENGEIJI, Atsushi; NAKATA, Kenya; SHIINA, Isamu

Isamu

- 3E5-49** The First Non-enzymatic Dynamic Kinetic Resolution of Racemic 2-Amino-2-arylacetic Acids Using MA-BTM Combined System (Tokyo Univ. of Science) NAKATA, Kenya; KAWANISHI, Tatsuya; ONO, Keisuke; SHIINA, Isamu
- 3E5-50** An Effective Kinetic Resolution of Racemic 2-Aryl-2-fluoropropanoic Acids Using MA-BTM Combined System (Tokyo Univ. of Science) TENGEIJI, Atsushi; ONO, Keisuke; NAKATA, Kenya; SHIINA, Isamu
- 3E5-51** Synthesis of optically active 2-aryl-6-methylpyran derivatives (1) (Department of Chemistry, Graduate School of Science, Kobe University) SHIMAZAKI, Atsuko; MICHIGAMI, Kyosuke; HAYASHI, Masahiko
- 3E5-52** Synthesis of optically active 2-aryl-6-methylpyran derivatives (2) (Department of Chemistry, Graduate School of Science, Kobe University) MICHIGAMI, Kyosuke; HAYASHI, Masahiko

### Monday, March 25, AM

Chair: MORI, Keiji (9:00~10:00)

- \* 8:50-9:00: interval for laptop PC connection.(4E5-01, 4E5-02, 4E5-03, 4E5-04, 4E5-05, 4E5-06)
- 4E5-01** Asymmetric synthesis of  $\alpha, \beta$ -diaminoesters by catalytic imine-imine cross coupling reaction. (Graduate School of Science, The Univ. of Tokyo) MATSUMOTO, Masatoshi; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 4E5-02** Efficient synthesis of 1,2-diamine derivatives by catalytic imine-imine cross coupling reactions (Graduate School of Science, The Univ. of Tokyo) HARADA, Masashi; MATSUMOTO, Masatoshi; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 4E5-03** Asymmetric Synthesis of Chroman Derivatives via Intramolecular Oxy-Michael Addition Reaction by Bifunctional Organocatalysts (Kyoto Univ.) MIYAJI, Ryota; ASANO, Keisuke; MATSUBARA, Seijiro
- 4E5-04** Asymmetric Spiroketal Synthesis by Bifunctional Organocatalysts (Kyoto Univ.) YONEDA, Naoki; FUKATA, Yukihiko; ASANO, Keisuke; MATSUBARA, Seijiro
- 4E5-05** Selective Synthesis of Both Enantiomers of 2-Oxazolindiones by a Common Cinchona-Alkaloid-based Aminothiourethane Catalyst (Kyoto Univ.) FUKATA, Yukihiko; ASANO, Keisuke; MATSUBARA, Seijiro
- 4E5-06** Dehydrative Esterifications in Water Using Novel Alkylbenzenesulfonic Acid Catalysts (Graduate School of Science, The Univ. of Tokyo) YAGYU, Daisuke; KITANOSONO, Taku; KOBAYASHI, Shu

Chair: ITSUNO, Shin-ichi (10:10~11:10)

- \* 10:00-10:10: interval for laptop PC connection.(4E5-08, 4E5-09, 4E5-10, 4E5-11, 4E5-12, 4E5-13)
- 4E5-08** Catalytic enantioselective Diels-Alder reaction of  $\alpha$ -haloacroleins with amidodienes by C<sub>1</sub> symmetric bis phosphoric acid (Graduate School of Science, Tohoku Univ.) FUNAYAMA, Kosuke; MOMIYAMA, Norie; TERADA, Masahiro
- 4E5-09** Synthesis of Chiral Carboxylic Acid-Phosphoric Acid Binaphthyl and Its Application to Enantioselective Hetero Diels-Alder Reaction of Azo Compounds and Amidodienes (Graduate School of Science, Tohoku Univ.) TABUSE, Hideaki; MOMIYAMA, Norie; TERADA, Masahiro
- 4E5-10** Base-Catalyzed [2,3]-Wittig/Phospha-Brook Tandem Rearrangement Sequence (Graduate School of Science, Tohoku Univ.) KONDOH, Azusa; TERADA, Masahiro
- 4E5-11** A Convenient Method for the Kinetic Resolution of Racemic 2-Hydroxyphosphates Using MA-BTM Combined System (Tokyo Univ. of Science) ONO, Keisuke; SHIINA, Isamu
- 4E5-12** Kinetic Resolution of Racemic 2-Hydroxyoximes and those derivatives by the Asymmetric Esterification Using MA-BTM Combined System (Tokyo Univ. of Science) NAKATA, Kenya; FUTAMI, Kengo; ZHANG, Qi; NAKAHARA, Takayoshi; ONO, Keisuke; SHIINA, Isamu
- 4E5-13** Synthesis of Spirolactones by Phosphazene Base-Catalyzed Intramolecular Cyclization (Graduate School of Science, Tohoku Univ.) ANDO, Kenichi; KONDOH, Azusa; TERADA, Masahiro

Chair: KONDOH, Azusa (11:20~12:20)

- \* 11:10-11:20: interval for laptop PC connection.(4E5-15, 4E5-16, 4E5-17, 4E5-18, 4E5-19, 4E5-20)
- 4E5-15** Asymmetric Mannich Reaction of  $\alpha$ -Keto Imines Catalyzed by Diarylprolinol Silyl Ether (Graduate School of Science, Tohoku University) HAYASHI, Yujiro; SHOMURA, Hiroki; SAKAMOTO, Daisuke
- 4E5-16** Asymmetric Synthesis of Cyclopropanes Bearing a Quaternary Carbon Center by Diphenylprolinol Silyl Ether (Graduate School of Science, Tohoku University) HAYASHI, Yujiro; YAMAZAKI, Tatsuya; NAKANISHI, Yuki; UCHIMARU, Tadafumi
- 4E5-17** Synthesis of Trifluoromethyl substituted Isoquinoline Derivatives by Internal redox processes (Faculty of Science, Gakushuin University) UMEHARA, Nobuaki; MORI, Keiji; AKIYAMA, Takahiko
- 4E5-18** Construction of Heteropolycycles by Hydride Shift Mediated C-H Bond Functionalization. (Faculty of Science, Gakushuin University) KURIHARA, Kazuki; MORI, Keiji; AKIYAMA, Takahiko
- 4E5-19** Synthesis of Main-chain Polymer of MacMillan Catalyst for Asymmetric Diels-Alder Reaction (III) (Toyohashi University of Technology) AISYAH, Najwa; HARAGUCHI, Naoki; ITSUNO, Shinichi
- 4E5-20\*** Synthesis of hydrosilylated and thioether modified cinchona alkaloid



based organocatalysts and their applications into asymmetric reactions (Toyohashi University of Technology) ISLAM, Md. Robiul; HARAGUCHI, Naoki; ITSUNO, Shinichi

## Room E6

### FOREST HOUSE F206

## Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds

Friday, March 22, AM

Chair: KIHARA, Nobuhiro (9 : 40 ~ 10 : 40)

\* 9:30-9:40: interval for laptop PC connection.(1E6-05, 1E6-06, 1E6-07, 1E6-08, 1E6-09, 1E6-10)

**1E6-05** Synthesis of 4-Quinolones Using Thermal Rearrangement of Iminocyclobutenones. (Mie University) ITO, Akinori; YOKOYAMA, Keiichi; HACHIYA, Iwao; SHIMIZU, Makoto

**1E6-06** Synthesis of Chiral  $\beta$ -Lactams Using Thermal Rearrangement of Chiral Aminocyclobutenones. (Mie University) ITO, Akinori; HACHIYA, Iwao; SHIMIZU, Makoto

**1E6-07** Synthetic Study of Heterocyclic Compounds Using Cycloaddition Reaction of the Diene Derived from 2,3-Dimethoxy-2,3-dimethyl-1,4-dioxane (Mie University) YAMAMOTO, Toshihiro; MIZOTA, Isao; HACHIYA, Iwao; SHIMIZU, Makoto

**1E6-08** Asymmetric synthesis of Allene Derivative with a medium cyclic structure (Dept. Adv. Biosci., Grad. Sch. Agric., Kinki Univ.) KAMEO, Masaki; TATSUMI, Hiroaki; GOUDA, Daisuke; HAGIWARA, Toshiharu; KAWAI, Yasushi; KITAYAMA, Takashi

**1E6-09** Development of novel structure via unique transannular reaction of zerumbone (Dept. Adv. Biosci., Grad. Sch. Agric., Kinki Univ.) TAKAHASHI, Issei; AWATA, Masataka; KAWAI, Yasushi; KITAYAMA, Takashi

**1E6-10** Annulation reaction of zerumbone: Favorskii rearrangement (Dept. Adv. Biosci., Fac. Agric., Kinki Univ.) FUKUSHIMA, Miyuki; TAKAHASHI, Issei; IFUKU, Masashi; KAWAI, Yasushi; KITAYAMA, Takashi

Chair: KITAYAMA, Takashi (10 : 50 ~ 11 : 50)

\* 10:40-10:50: interval for laptop PC connection.(1E6-12, 1E6-13, 1E6-14, 1E6-15, 1E6-16, 1E6-17)

**1E6-12** Development of axially chiral reaction field for acylation using hydrogen-bonding between amides (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) KOMATSU, Shoko; KIHARA, Nobuhiro

**1E6-13** Thermodynamic chirality-induction to crown ether using the reversible Nicholas etherification (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) URAI, Naoki; KIHARA, Nobuhiro

**1E6-14** Umpolung Reaction Using 3-Oxoquinoxalin-2-carboxylate Derivatives (Mie University) MUSHIKA, Miki; MIYAMARU, Satoru; SHIMIZU, Makoto

**1E6-15** Synthesis of Quaternary  $\alpha$ -Amino Acid Derivatives Utilizing Tandem Reaction to Iminomalonates and Desymmetrization of the Resulting Products. (Mie University) MUSHIKA, Miki; SHIMIZU, Makoto

**1E6-16** N-Alkylation of  $\beta, \gamma$ -Alkenyl- $\alpha$ -iminoester and Subsequent Synthesis of  $\alpha, \beta$ -Unsaturated- $\alpha$ -amino Lactones (Mie University) TANAKA, Hirotsuka; SHIMIZU, Makoto

**1E6-17** Study of a novel stereocontrolled constructing method for quaternary and all-carbon quaternary stereocenters from achiral carbonyl compounds. (Univ. of Kanagawa) SATO, Ken-ichi; KOJIMA, Masaru; HORIUCHI, Yuuki; MATSUYOSHI, Toshihiko; AKAI, Shoji; NAKAMURA, Yutaka

Friday, March 22, PM

Chair: MOROHASHI, Naoya (13 : 00 ~ 14 : 00)

\* 12:50-13:00: interval for laptop PC connection.(1E6-25, 1E6-26, 1E6-27, 1E6-28, 1E6-29, 1E6-30)

**1E6-25** Umpolung N,N-Dialkylation and N,N,C-Trialkylation Reactions of  $\alpha$ -Sulfoximine Ester (Mie University) MAEDA, Tatsuya; SHIMIZU, Makoto

**1E6-26** Cyclization of  $\alpha$ -Imino Esters via 1,3-Aza-Brook Rearrangement and Synthetic Study of (+)-Duocarmycin A (Mie University) KATSURAYAMA, Haruna; SHIMIZU, Makoto

**1E6-27** Nucleophilic Addition Reaction to Iminium Salt Generated from Cyclic Amino Ketene Silyl Acetals (Mie University) YATO, Atsuhiko; SHIMIZU, Makoto

**1E6-28** Synthesis of Substituted Tetracenes via [4+2] Cycloaddition of Epoxynaphthalene (Department of Chemistry, School of Science and Technology, Kwansai Gakuin Univ.) HANEDA, Hiroshi; EGUCHI, Fumiaki; HAMURA, Toshiyuki

**1E6-29** Study on the Synthesis of  $\pi$ -Conjugated Belt-like Compounds by Successive Cycloadditions of Isobenzofuran (Department of Chemistry,

School of Science and Technology, Kwansai Gakuin University) KAKIHARA, Daisuke; KAWANISHI, Kazuki; NAKAGAWA, Haruki; HAMURA, Toshiyuki

**1E6-30** Novel Transformation of Allyl Alcohol Derivatives to Propargyl Alcohol Derivatives (Fac. Sci., Tokyo Univ. of Sci.) INAGAKI, Mai; KIRISEKO, Akito; KUTSUMURA, Noriki; SAITO, Takao

Chair: IGAWA, Kazunobu (14 : 10 ~ 15 : 10)

\* 14:00-14:10: interval for laptop PC connection.(1E6-32, 1E6-34, 1E6-35, 1E6-36, 1E6-37)

**1E6-32\*** Field Control of Asymmetric Molecular Recognition: Control of Stereoselectivity by the Permittivity of Solvent in Lipase-catalyzed Kinetic Resolution (Graduate School of Engineering, Tohoku University) KITAMOTO, Yuichi; MOROHASHI, Naoya; HATTORI, Tetsutaro

**1E6-34** Synthesis of sugar derivatives using 1,3-dipolar cycloaddition reactions (Dept. Adv. Biosci., Grad. Sch. Agric., Kinki Univ.) MORI, Ryutaro; IZUMOTO, Akira; HASHIMOTO, Yu; MATSUMOTO, Nobuyuki; TAGUCHI, Yoshinori; NAKAO, Keisuke; TANAKA, Masashi; KITAYAMA, Takashi

**1E6-35** Ring-Opening Halogenation Reaction of Azetidin-3-one Promoted by Titanium Tetrahalide (Mie University) ARIGA, Shizuka; MORI, Ryouta; HACHIYA, Iwao; SHIMIZU, Makoto

**1E6-36** Regioselective Ring-Opening Halogenation Reaction of Azetidin-3-one O-Alkyl Oxime Promoted by Titanium Tetrahalide (Mie University) ARIGA, Shizuka; HACHIYA, Iwao; SHIMIZU, Makoto

**1E6-37** Diastereoselective Halo Aldol Reaction of  $\gamma$ -Alkoxy Alkynyl Ketone Derivatives by Titanium Tetraiodide and Its Applications (Mie University) KAYAKI, Shota; HACHIYA, Iwao; SHIMIZU, Makoto

Chair: KUTSUMURA, Noriki (15 : 20 ~ 16 : 20)

\* 15:10-15:20: interval for laptop PC connection.(1E6-39, 1E6-40, 1E6-41, 1E6-42, 1E6-43, 1E6-44)

**1E6-39** Synthesis and stereochemistry of 1<sup>6</sup>-Substituted 3-Aza[7]orthocyclophane (Inst. for Materials Chemistry and Engineering, Kyushu Univ., Interdisciplinary Graduate School of Engineering Sciences, Kyushu Univ.) HATAYAMA, Yusuke; IGAWA, Kazunobu; TOMOOKA, Katsuhiko

**1E6-40** Synthesis of 6-Substituted 3-Aza[7]orthocyclophane and Its Stereochemical Behavior (Inst. for Materials Chemistry and Engineering, Kyushu Univ., Interdisciplinary Graduate School of Engineering Sciences, Kyushu Univ. Department of Applied Chemistry, Tokyo Inst. of Technology) IGAWA, Kazunobu; OGAWA, Kouhei; KAWABATA, Takeshi; UEHARA, Kazuhiro; TOMOOKA, Katsuhiko

**1E6-41** Synthesis and Stereochemistry of [7]Orthocyclophane (Inst. for Materials Chemistry and Engineering, Kyushu Univ., Interdisciplinary Graduate School of Engineering Sciences, Kyushu Univ.) IGAWA, Kazunobu; MACHIDA, Kouhei; UEHARA, Kazuhiro; TOMOOKA, Katsuhiko

**1E6-42** Environmentally Benign Glycol Cleavage and Related Reactions (Shizuoka Institute of Science & Technology) IWAI, Toshiaki; YAMAZAKI, Kento; ISHIZUKA, Yuki; KIRIHARA, Masayuki

**1E6-43** Iodoarylation of benzyne species (Department of Chemistry, School of Science and Technology, Kwansai Gakuin University) MARUYAMA, Daisuke; TAKEDA, Asa; SUZUKI, Keisuke; HAMURA, Toshiyuki

**1E6-44** Catalytic generation of benzyne and its application (Department of Chemistry, School of Science and Technology, Kwansai Gakuin University) TAKEDA, Asa; SUZUKI, Keisuke; HAMURA, Toshiyuki

Chair: OHMORI, Ken (16 : 30 ~ 17 : 30)

\* 16:20-16:30: interval for laptop PC connection.(1E6-46, 1E6-47, 1E6-48, 1E6-49, 1E6-50, 1E6-51)

**1E6-46** Stereochemical Behavior of Planar Chiral  $\gamma$ -Amino Acid and Its Derivatives (Inst. for Materials Chemistry and Engineering, Kyushu Univ., Interdisciplinary Graduate School of Engineering Sciences, Kyushu Univ. Department of Applied Chemistry, Tokyo Inst. of Technology) IGAWA, Kazunobu; NOGUCHI, Kyohai; KAWABATA, Takeshi; OGI, Yoshinobu; TOMOOKA, Katsuhiko

**1E6-47** Synthesis and Stereochemistry of Conformationally Restricted Dihydrooxonine (Inst. for Materials Chemistry and Engineering, Kyushu Univ., Interdisciplinary Graduate School of Engineering Sciences, Kyushu Univ.) IGAWA, Kazunobu; YAMAURA, Yutaro; TOMOOKA, Katsuhiko

**1E6-48** Synthesis of Phenolic Acid Glycerol Esters Using Isobutoxycarbonyl Group as a Protecting Group (Kobe Gakuin Univ. ; Faculty of Pharmaceutical Sciences) TAKIMOTO, Tatsuya; SASAKI, Hideaki; SHINOHARA, Risa; MAEDA, Yukari; TOTANI, Nagao

**1E6-49<sup>#</sup>** Development of Efficient Approach to Medium-sized Heterocyclic Alkyne (Inst. for Materials Chemistry and Engineering, Kyushu Univ., Interdisciplinary Graduate School of Engineering Sciences, Kyushu Univ.) NI, Runyan; IGAWA, Kazunobu; TOMOOKA, Katsuhiko

**1E6-50** Stereochemical Study on Asymmetric Ozone Oxidation (Inst. for Materials Chemistry and Engineering, Kyushu Univ., Interdisciplinary Graduate School of Engineering Sciences, Kyushu Univ.) IGAWA, Kazunobu; MITSUDA, Naoto; NISHINO, Kosuke; KAWASAKI, Yuuya; TOMOOKA, Katsuhiko

**1E6-51** Investigation of the oxo components in the boronic Mannich reaction (Konan Univ.) MIYAZAWA, Toshifumi; UENISHI, Keisuke; DANJO,

Hiroshi

Chair: DANJO, Hiroshi (17 : 40~18 : 30)

- \* 17:30-17:40: interval for laptop PC connection.(1E6-53, 1E6-54, 1E6-55, 1E6-56, 1E6-57)
- 1E6-53** Construction of polycarbocyclic skeletons by Friedel-Crafts reaction with benzyne (Graduate School of Science and Technology, Tokyo Institute of Technology) TAKIGUCHI, Hiromu; OHMORI, Ken; SUZUKI, Keisuke
- 1E6-54** Synthetic study on enantiomerically pure C2-symmetrical paracyclophane and its derivatization (Tokyo Institute of Technology Faculty of Science) KITAJIMA, Yoko; SAVUKYNAS, Vaidas; TAKIGUCHI, Hiromu; OHMORI, Ken; SUZUKI, Keisuke
- 1E6-55** Stereospecific Retro-Cycloaddition Approach to Axially Chiral Multi-Substituted Allenes (Department of Chemistry, Tokyo Institute of Technology) MATSUSHITA, Kyouhei; AOKI, Yoshifumi; OHMORI, Ken; SUZUKI, Keisuke
- 1E6-56** Development of new synthetic reactions using *gem*-dicyanozone. (Hokkaido Univ.) IWKURA, Masaru; TANINO, Keiji
- 1E6-57** A new synthetic method of conjugated dienes from alkanenitriles (Hokkaido Univ.) NISHIDA, Akihiro; HIRAMATSU, Takahiro; TANINO, Keiji

## Saturday, March 23, AM

Chair: SAIMOTO, Hiroyuki (9 : 00 ~9 : 50)

- \* 8:50-9:00: interval for laptop PC connection.(2E6-01, 2E6-02, 2E6-03, 2E6-04, 2E6-05)
- 2E6-01** Synthetic study of Arenicolides (2) (Department of Applied Chemistry, Kogakuin University) NAITOU, Minako; OHBO, Masumi; YAMADA, Haruki; NAKANO, Taeko; YASUI, Eiko; MIYASHITA, Masaaki; NAGUMO, Shinji
- 2E6-02** The development of regioselective Friedel-Crafts reaction of epoxy nitroalkene (Department of Applied Chemistry, Kogakuin University) SAHARA, Yui; YASUI, Eiko; NAGUMO, Shinji
- 2E6-03** Synthetic Study of Valerena-4,7(11)-diene with Potent Sedative Activity (Dept. Adv. Biosci., Grad. Sch. Agric., Kinki Univ.) TSUMAGATA, Hiroki; IZU, Yukako; KITAYAMA, Takashi
- 2E6-04** Synthesis of anastrephin by using  $S_N2'$  type allylic substitution (Tokyo Institute of Technology; Department of Bioengineering) SAKAI, Masahiro; OGAWA, Narihito; KOBAYASHI, Yuichi
- 2E6-05** Construction of quaternary carbon atom via rearrangement of  $\beta$ -silyl nitrile derivatives. (Hokkaido Univ.) KITAJIMA, Fumitaka; SAKURAI, Kentaro; IKEDA, Shinichi; TANINO, Keiji

Chair: OGAWA, Narihito (10 : 00~10 : 50)

- \* 9:50-10:00: interval for laptop PC connection.(2E6-07, 2E6-08, 2E6-09, 2E6-10, 2E6-11)
- 2E6-07** Synthesis of ascofuranone derivatives showing antitrypanosomiasis activity (Tottori Univ.) ISHIDE, Yurie; HAGA, Yasushi; YAMAMOTO, Masaichi; IZAWA, Hironori; IFUKU, Shinsuke; MORIMOTO, Minoru; SAIMOTO, Hiroyuki
- 2E6-08** Synthesis of Ascofuranone derivatives Possess Anti-Trypanosome Alternative Oxidase Activity (Tottori Univ.) AOYAMA, Takahiro; TAKAI, Satoshi; HAGA, Yasushi; YAMAMOTO, Masaichi; KITA, Kiyoshi; IZAWA, Hironori; IFUKU, Shinsuke; MORIMOTO, Minoru; SAIMOTO, Hiroyuki
- 2E6-09** Synthesis of Ascofuranone derivatives Having Anti-Trypanosome Alternative Oxidase Activity (Tottori Univ.) MATSUBARA, Shinji; NAKASHIMA, Yurie; HAGA, Yasushi; YAMAMOTO, Masaichi; KITA, Kiyoshi; IZAWA, Hironori; IFUKU, Shinsuke; MORIMOTO, Minoru; SAIMOTO, Hiroyuki
- 2E6-10** Z-selective intramolecular Horner-Wadsworth-Emmons reaction for the synthesis of macrocyclic lactones (Gifu University) EGUCHI, Yuma; ANDO, Kaori
- 2E6-11** The concise synthesis of polypropionates by the stereoselective reductions, and application of the first total synthesis of septoriamycin A (Waseda Univ.) NAKAMURA, Tatsuya; HARACHI, Mio; HOSOKAWA, Seijiro

Chair: SHIMIZU, Makoto (11 : 00~12 : 00)

- \* 10:50-11:00: interval for laptop PC connection.(2E6-13)
- 2E6-13 CSJ Award for Creative Works** Development of Effective Dehydration Condensation and Its Application to Total Synthesis of Biologically Active Molecules (Fac. Sci., Tokyo Univ. of Sci.) SHIINA, Isamu

## Saturday, March 23, PM

Chair: YAJIMA, Tomoko (13 : 10~14 : 10)

- \* 13:00-13:10: interval for laptop PC connection.(2E6-26, 2E6-27, 2E6-28, 2E6-29, 2E6-30, 2E6-31)
- 2E6-26** Synthetic Study of Muscopyridine Analogue via 2-Pyridone Synthesis by Conjugate Addition Reaction of  $\beta$ -Keto Ester to Alkynyl Imine as a Key Reaction (Mie University) HACHIYA, Iwao; AGATA, Ryosuke; KUGISAKI, Naoki; SHIMIZU, Makoto
- 2E6-27** Synthetic Study of Muscopyridine Analogue via 2-Pyridone Synthesis

by Conjugate Addition Reaction of Dimethyl Malonate to Alkynyl Imine as a Key Reaction (Mie University) KUGISAKI, Naoki; HACHIYA, Iwao; SHIMIZU, Makoto

- 2E6-28** Synthetic Study of Biologically Active Artocarpin by Coupling Reaction (Mie University) TANIGUCHI, Kana; MIZOTA, Isao; SHIMIZU, Makoto
- 2E6-29** Synthetic Study on Highly Oxidized Angucyclinones (Graduate School of Science and Technology, Tokyo Institute of Technology) NAGANO, Tomohiko; KAMAKURA, Takahiro; TAKIKAWA, Hiroshi; SUZUKI, Keisuke
- 2E6-30** Synthetic study on pusilatin, macrocyclic bisbenzyl natural products. (Graduate School of Science and Technology, Tokyo Institute of Technology) YAMADA, Takahiro; TAKIGUCHI, Hiromu; OHMORI, Ken; SUZUKI, Keisuke
- 2E6-31** Synthetic Study on Garcinielliptone HF (Graduate School of Science and Technology, Tokyo Institute of Technology) MORITA, Masao; OHMORI, Ken; SUZUKI, Keisuke

Chair: MIZOTA, Isao (14 : 20~15 : 20)

- \* 14:10-14:20: interval for laptop PC connection.(2E6-33, 2E6-34, 2E6-35, 2E6-36, 2E6-37, 2E6-38)
- 2E6-33** Photoinduced Perfluoroalkylation of Anthracene (Ochanomizu Univ.) NOGAMI, Emiko; YAJIMA, Tomoko
- 2E6-34** Photoinduced Perfluoroalkylation of 9-Methylantracene (Ochanomizu Univ.) NOGAMI, Emiko; YAJIMA, Tomoko
- 2E6-35** Catalytic Asymmetric Michael Addition Reaction of  $\beta$ -Trifluoromethyl-Substituted Acryloyl Pyrazole with Active Methylene Compounds (Shimane Univ.; Kyushu Univ.) MATSUI, Shogo; OHYAMA, Akihiro; IWAGAMI, Yurika; TANAKA, Junji; WADA, Eiji
- 2E6-36** Aldol reactions of  $\beta$ -CF<sub>3</sub> carbonyl compounds (Graduate school of Engineering, Tokyo University of Agriculture and Technology) SUZUKI, Takuya; KAWASAKI-TAKASUKA, Tomoko; YAMAZAKI, Takashi
- 2E6-37** Novel synthesis of unsymmetric perfluoroalkyl substituted acenes (Graduate School of Engineering, Tokyo University of Agriculture and Technology) KINOSHITA, Keita; YAMADA, Shigeyuki; IWAMA, Shota; KAWASAKI-TAKASUKA, Tomoko; YAMAZAKI, Takashi
- 2E6-38** Trifluoromethylation of Isoxazole Triflones: Syntheses of SO<sub>2</sub>CF<sub>3</sub> Substituted 5-Trifluoromethyl-2-isoxazolines (Nagoya Institute of Technology, Graduate School of Engineering) SUGITA, Yutaka; KAWAI, Hiroyuki; TOKUNAGA, Etsuko; SHIBATA, Norio

Chair: TAKIKAWA, Hiroshi (15 : 30~16 : 30)

- \* 15:20-15:30: interval for laptop PC connection.(2E6-40, 2E6-41, 2E6-42, 2E6-43, 2E6-45)
- 2E6-40** Lewis Acid Catalyzed Intramolecular Fluoroacylation of Alkynes (Graduate School of Engineering, Osaka University) SANAGAWA, Atsushi; KUNIYASU, Hitoshi; IWASAKI, Takanori; KAMBE, Nobuaki
- 2E6-41** Isomerization of  $\beta$ -Trifluoromethylated Aldol Product Derived from Cyclohexanone (Gifu University) FUNABIKI, Kazumasa; SAKAIDA, Yuta; KUBOTA, Yasuhiro; MATSUI, Masaki; KUBOTA, Yoshihiro
- 2E6-42** Synthesis of oxazolidinone based on C-F bond cleavage (Nagoya Institute of Technology) TERADA, Chisato; SUZUKI, Satoru; KITAYAMA, Takashi; TOKUNAGA, Etsuko; SHIBATA, Norio
- 2E6-43\*** Desymmetrization of Aliphatic Fluorides by C-F Bond Activation (Department of Frontier Materials, Nagoya Institute of Technology) SUZUKI, Satoru; TERADA, Chisato; KITAYAMA, Takashi; TOKUNAGA, Etsuko; SHIBATA, Norio
- 2E6-45** Esterification in Solkane (Department of Frontier Materials, Graduate School of Engineering, Nagoya Institute of Technology) AZUMA, Ayaka; XU, Xui-hua; TOKUNAGA, Etsuko; SHIBATA, Norio

Chair: IWASAKI, Takanori (16 : 40~17 : 20)

- \* 16:30-16:40: interval for laptop PC connection.(2E6-47, 2E6-48, 2E6-49, 2E6-50)
- 2E6-47** Stereoselective Reaction of Chiral Aminoallylstannane with Carbonyl Compounds Using Transmetalation by Metal Halides (Osaka University) YASUDA, Makoto; NAGANO, Yoshitaka; BABA, Akio
- 2E6-48** Synthetic study on isoflavonoids based on 1,2-rearrangement strategy (Graduate School of Science and Technology, Tokyo Institute of Technology) NAKAMURA, Kayo; OHMORI, Ken; SUZUKI, Keisuke
- 2E6-49** Reduction of  $\alpha$ -heterosubstituted carbonyl compounds by Ga(I). (Dep. of Chemistry, Fac. of Science, Kanagawa Univ.) KAZAMI, Takashi; KIHARA, Nobuhiro
- 2E6-50** Acetals of *N,N*-Dimethylformamides: Ambiphilic Behavior in Converting Carbon Dioxide to Dialkyl Carbonates (Grad. Sch. Sci., Nagoya Univ.) TAKADA, Yuki; MATSUOKA, Aki; DU, Ya; NAKA, Hiroshi; NOYORI, Ryoji; SAITO, Susumu

## Sunday, March 24, AM

Chair: TAKAYA, Jun (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3E6-01, 3E6-02, 3E6-03, 3E6-04, 3E6-06)
- 3E6-01** Asymmetric Synthesis of Chiral Glycerin Arising from Carbon Isotope Substitution and Its Chiral Discrimination by Asymmetric Autocatalysis

- (Tokyo Univ. of Science) OJI, Shotaro; OZAWA, Hirokazu; MATSUMOTO, Arimasa; SOAI, Kenso
- 3E6-02** Asymmetric Synthesis Using Enantiotopic Crystal Faces of Pyrimidine Carbalddehyde (Tokyo Univ. of Science, Univ. of Fukui) IKAGA, Takayuki; AMIHARA, Ai; KAWASAKI, Tsuneomi; MATSUMOTO, Arimasa; SOAI, Kenso
- 3E6-03** Competitive Asymmetric Autocatalysis Using  $\beta$ -Amino Alcohols and Design of Chiral Catalyst with High Asymmetric Power. (Tokyo Univ. of Science/Univ. of Fukui) NOTO, Ryo; WATABE, Naoki; KAWASAKI, Tsuneomi; MATSUMOTO, Arimasa; SOAI, Kenso
- 3E6-04\*** Claisen Rearrangement of  $\alpha$ -Imino Allyl Ester Utilizing N-Alkylation (Mie University) MIZOTA, Isao; SHIMIZU, Makoto
- 3E6-06** Stereoselective Claisen Rearrangement of  $\alpha$ -Imino Allyl Esters Using an Umpolung Reaction (Mie University) MIZOTA, Isao; FUKAYA, Toshikazu; SHIMIZU, Makoto

Chair: HOSODA, Naoya (10 : 10~11 : 00)

- \* 10:00-10:10: interval for laptop PC connection.(3E6-08, 3E6-09, 3E6-11, 3E6-12)
- 3E6-08** Enantioselective Synthesis on the Single Crystal Surface of Calcium Sulfate Dihydrate (Gypsum) in Conjunction with Asymmetric Autocatalysis (2) (Tokyo Univ. of Science, Univ. of Fukui) KAIMORI, Yoshiyasu; UCHIDA, Mizuki; KAWASAKI, Tsuneomi; MATSUMOTO, Arimasa; SOAI, Kenso
- 3E6-09\*** Absolute Control of Crystal Chirality by the Dehydration of Crystal Water of Achiral Nucleobase Cytosine Monohydrate and Asymmetric Autocatalysis (Tokyo Univ. of Science, Univ. of Fukui) MINEKI, Hiroko; KAIMORI, Yoshiyasu; KAWASAKI, Tsuneomi; MATSUMOTO, Arimasa; SOAI, Kenso
- 3E6-11** Nucleophilic Addition Reaction of  $\alpha$ -Imino Esters Using C-Silylation Followed by Aza-Brook Rearrangement (Mie University) KATANNO, Takafumi; MIZOTA, Isao; SHIMIZU, Makoto
- 3E6-12** N-Alkylation of  $\alpha$ -Imino Ester Followed by Nucleophilic Addition Reaction and Application to a New Flow System. (Mie University) SANO, Takanori; MIZOTA, Isao; SHIMIZU, Makoto

Chair: MATSUMOTO, Arimasa (11 : 10~12 : 00)

- \* 11:00-11:10: interval for laptop PC connection.(3E6-14, 3E6-15, 3E6-16, 3E6-17, 3E6-18)
- 3E6-14** Umpolung Reaction of  $\alpha$ -Imino Nitrile (Mie University) TATEISHI, Masasato; FURUKAWA, Yuuki; SHIMIZU, Makoto
- 3E6-15** Carbon-Carbon Bond Formation Reaction Using an Umpolung Reaction of  $\alpha$ -Imino Phosphonates (Mie University) TATEISHI, Masasato; SHIMIZU, Makoto
- 3E6-16** Successive Carbon-Carbon Bond Formation Reaction Using Umpolung Reaction to  $\alpha$ -Imino Thioester (Mie University) UEDA, Chihiro; MIZOTA, Isao; SHIMIZU, Makoto
- 3E6-17** Tandem carbon-carbon bond formation utilizing photo-induced coupling between acylsilanes and organoboron compounds (Tokyo Tech) ASHIDA, Ryo; TAMASHIMA, Hiroto; SASANO, Kouta; IWASAWA, Nobuharu; KUSAMA, Hiroyuki
- 3E6-18** Asymmetric Synthesis of 3-Substituted Phtalide; An Application to a Synthesis of (+)-Spirolaxine Methyl Ether (Yokohama Natl. Univ.) TANUMA, Kenji; HOSODA, Naoya; ASAMI, Masatoshi

### Sunday, March 24, PM

Chair: MATSUBARA, Ryosuke (14 : 20~15 : 20)

- \* 14:10-14:20: interval for laptop PC connection.(3E6-33, 3E6-34, 3E6-35, 3E6-36, 3E6-37, 3E6-38)
- 3E6-33** STEREOSELECTIVE RADICAL ADDITION TO F3TBSI (Ochanomizu University) SUGIURA, Nana; YAJIMA, Tomoko; KAWADA, Kosuke; KAGAWA, Takumi
- 3E6-34** Studies on benzylic oxidation of aryl alkanes using sodium bromide as catalyst. (Fac. Sci., Kochi Univ.) MAEJIMA, Yukako; NAGANO, Takashi
- 3E6-35** Bromide Ion-Catalyzed Oxidation of Alcohols Using Hydrogen Peroxide. (Fac. Sci., Kochi Univ.) KOMAGAWA, Hiromi; NAGANO, Takashi
- 3E6-36** Visible-Light-Mediated Functionalization of Anilines via Aminium Radicals as Key Intermediates (School of Engineering, The Univ. of Tokyo) TAKATA, Shohei; NAKAJIMA, Kazunari; AHIDA, Yuya; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki
- 3E6-37** Elucidation of Synthetic Pathway of Flavor (Acetaldehyde) in Alcoholic Beverages for Efficient Aerobic Oxidation of Alcohol in Organic Synthesis (Shizuoka University) KITAMURA, Takumi; MASE, Nobuyuki
- 3E6-38<sup>#</sup>** Synthesis of Quantum Dot/Hydroxy-apo-10'-carotenal Conjugates for in vivo Visualization of Carotenoid-derived Volatile Compounds (Shizuoka University) VO, Anh Tu; JITSUKATA, Hoshimi; MASE, Nobuyuki; BALDERMANN, Susanne; WATANABE, Naoharu

Chair: MASE, Nobuyuki (15 : 30~16 : 30)

- \* 15:20-15:30: interval for laptop PC connection.(3E6-40, 3E6-41, 3E6-42, 3E6-43, 3E6-44, 3E6-45)
- 3E6-40** (Hypo)iodite-Catalyzed Oxidative Biaryl Coupling Reaction of Phenols (Nagoya Univ.) NAGATA, Dai; UYANIK, Muhammet;

ISHIHARA, Kazuaki

- 3E6-41** (Hypo)Iodite-Catalyzed Oxidative Carbon-Nitrogen Coupling Reaction at  $\alpha$ -Position of Ketones (Nagoya Univ.) TSUKAHARA, Mayuko; UYANIK, Muhammet; ISHIIHARA, Kazuaki
- 3E6-42** Hypervalent Iodine(V)-Catalyzed Regioselective Oxidation of Phenols with Oxone and Its Synthetic Application (Nagoya Univ.) MUTSUGA, Tatsuya; UYANIK, Muhammet; ISHIIHARA, Kazuaki
- 3E6-43** Regioselective Bromoallylation of Alkylidenecyclopropanes (Graduate School of Science, Osaka Prefecture University) KIPPO, Takashi; HAMAOKA, Kanako; RYU, Ilhyong
- 3E6-44** Radical Mediated Three-Component Coupling Reaction of Alkylidenecyclopropanes, Carbon Monoxides and Allylic Bromides (Graduate School of Science, Osaka Prefecture University) KIPPO, Takashi; RYU, Ilhyong
- 3E6-45** Radical Additions of Acetals to Vinyl Bromides (Graduate School of Science, Osaka Prefecture University) KIPPO, Takashi; KIMURA, Yuki; RYU, Ilhyong

Chair: ENDOU, Kouhei (16 : 40~17 : 30)

- \* 16:30-16:40: interval for laptop PC connection.(3E6-47, 3E6-48, 3E6-49, 3E6-50, 3E6-51)
- 3E6-47** Development of Heterogeneous Hydrogenation with Micronanobubble (Shizuoka University) ISOMURA, Shogo; MASE, Nobuyuki
- 3E6-48** On-site Synthesis of Hydrogen Peroxide Using Micronanobubbles (Shizuoka University) SAKAI, Takuma; MASE, Nobuyuki
- 3E6-49** Synthesis of novel difluoromethylene synthons by the regioselective ring opening of gem-difluorocyclopropanes via radical reaction pathway with allyltributyltin. (Tottori University) MUNEMORI, Daisuke; NOKAMI, Toshiki; ITOH, Toshiyuki
- 3E6-50** Synthesis of a Novel Spiro Type Bis-gem-Difluorocyclopropane (Tottori University) KAWAMURA, Tsuyoshi; MUNEMORI, Daisuke; NOKAMI, Toshiki; ITOH, Toshiyuki
- 3E6-51** Development of Alcohol Reduction Using Light (Kobe Univ.) SHIN, Yong soon; MATSUBARA, Ryosuke

Chair: NOKAMI, Toshiki (17 : 40~18 : 30)

- \* 17:30-17:40: interval for laptop PC connection.(3E6-53, 3E6-54, 3E6-55, 3E6-56, 3E6-57)
- 3E6-53** Tartaric-Magnesium Complex Mediated Asymmetric Strecker-type Reaction of Nitrones and Cyanohydrin (Kanazawa Univ., Graduate School of Natural Science and Technology) SAKAI, Takahiro; SOETA, Takahiro; ENDO, Kohei; UKAJI, Yutaka
- 3E6-54** Development of Z-Selective Formation of Vinyl Triflates Based on "Syn-Effect" and Synthetic Application (Kanazawa Univ., Graduate School of Natural Science and Technology) KUROSAWA, Fumiya; NAKANO, Takeo; SOETA, Takahiro; ENDO, Kohei; UKAJI, Yutaka
- 3E6-55** One-pot conversion of methyl groups bonded to arene to nitrile groups: novel preparation of aromatic nitriles (Chiba Univ.) TSUCHIYA, Daisuke; MORIYAMA, Katsuhiko; TOGO, Hideo
- 3E6-56** Facile one-pot transformation of carboxylic acids into nitriles with SDBBA-H. (Chiba Univ.) MIYAGI, Kotaro; MORIYAMA, Katsuhiko; TOGO, Hideo
- 3E6-57** Facile one-pot transformation of alcohols to nitriles under mild conditions (Univ. of Chiba) SHIMOJO, Hiroyuki; SAITO, Takao; MORIYAMA, Katsuhiko; TOGO, Hideo

## Room F1 FOREST HOUSE F301

### Organic Chemistry -Reaction and Synthesis- Aromatic Compounds

Saturday, March 23, AM

Chair: UEDA, Mitsuhiro (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2F1-01, 2F1-02, 2F1-03, 2F1-04, 2F1-05, 2F1-06)
- 2F1-01** Single Electron Transfer-Induced Coupling of Aryl Grignard Reagents with Alkenyl Halides (Graduate School of Science, Kyoto University; IMRE, Singapore) SHIRAKAWA, Eiji; MURAKAMI, Takuya; WATABE, Ryo; HAYASHI, Tamio
- 2F1-02** Transition Metal-Free Coupling of Arylzinc Reagents with Aryl Halides (Graduate School of Science, Kyoto University; IMRE, Singapore) SHIRAKAWA, Eiji; TAMAKUNI, Fumiko; KUSANO, Eugene; UCHIYAMA, Nanase; KONAGAYA, Wataru; WATABE, Ryo; HAYASHI, Tamio
- 2F1-03** Direct Arylation of Aliphatic C-H Bonds with Arenes Using a Peroxide and a Base (Graduate School of Science, Kyoto University) UENO, Ryota; SHIRAKAWA, Eiji
- 2F1-04** Sequential multi-click reaction based on azido-type selective cycloadditions: studies toward facile assembly of functional molecules (Tokyo Med. & Dent. Univ.; Tokyo Inst. Tech.; JNC Petrochem. Co.) KANNO, Kimiyuki;

YOSHIDA, Suguru; KII, Isao; MATSUSHITA, Takeshi; HAGIWARA, Masatoshi; HOSOYA, Takamitsu

- 2F1-05** Studies on clickability of sterically-hindered aliphatic azides toward sequential assembly of functional molecules (Tokyo Med. & Dent. Univ.; Tokyo Inst. Tech.) MORITA, Takamoto; YOSHIDA, Suguru; SHIRAIISHI, Akira; HOSOYA, Takamitsu
- 2F1-06** Further enhancement of the clickability of doubly sterically-hindered aryl azide elicited by the *para*-substituent (Tokyo Med. & Dent. Univ.; Tokyo Univ. Sci.; JNC Petrochem. Co.) TANAKA, Junko; YOSHIDA, Suguru; MATSUSHITA, Takeshi; HOSOYA, Takamitsu

Chair: SHIRAKAWA, Eiji (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(2F1-08, 2F1-09, 2F1-10, 2F1-11, 2F1-12, 2F1-13)
- 2F1-08** Radical Hydroxymethylation of Aryl Halides. (Graduate School of Science, Osaka Prefecture University) OKADA, Takuma; KAWAMOTO, Takuji; RYU, Ilhyong
- 2F1-09** Radical Reaction using Borohydride through 1,5-Hydrogen Transfer (Graduate School of Science, Osaka Prefecture University) KAWAMOTO, Takuji; RYU, Ilhyong
- 2F1-10** Palladium-catalyzed cross-coupling reaction of aminoazulene derivatives. (Tokyo University of Science) OKADA, Yuya; TSUKADA, Satoru; ABE, Noritaka; GUNJI, Takahiro
- 2F1-11** Highly Active and Chemoselective Hydrogenation of Nitroarenes Catalyzed by the Alkyne Derivatives-stabilized Pd Nanoparticles (Faculty of Eng. & Frontier Chem. Center, Hokkaido Univ.) ARAI, Noriyoshi; DEKITA, Atsushi; TAKAYA, Masahiro; OHKUMA, Takeshi
- 2F1-12** Transition-Metal-Free Cross-Coupling Reaction of Benzyl Bromides with Aryl- and Vinylboronic Acids (Graduate School of Science, Osaka Prefecture University) UEDA, Mitsuhiro; NISHIMURA, Kota; RYU, Ilhyong
- 2F1-13** Formation of 1-Indanol by 5-Exo Cyclization of 1-Butenyl-2-phenyllithium (Graduate School of Science, Osaka Prefecture University) KUBO, Haruka; UEDA, Mitsuhiro; RYU, Ilhyong

Chair: FUCHIBE, Kohei (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(2F1-15, 2F1-16, 2F1-17, 2F1-19)
- 2F1-15** Polysilylation Reaction of Anthracene via Birch-Type Silylation (Graduate School of Engineering, Gunma Univ.) KANNO, Ken-ichiro; KOBAYASHI, Naotaka; TSURUSAKI, Akihiro; KYUSHIN, Soichiro
- 2F1-16** Coupling of Organomagnesium Reagent by Quinonediimine as an Oxidant (Osaka Univ.) AMAYA, Toru; SUZUKI, Riyo; HIRAO, Toshikazu
- 2F1-17\*** Regioselective Alternate Functionalization of Hexaphenylbenzene Derivatives through Halogen Dance (The Univ. of Tokyo) KOJIMA, Tatsuo; HIRAOKA, Shuichi
- 2F1-19\*** Development of Novel Stereocontrol Method in Asymmetric Aldol Reactions of Cyclic Ketones with Aromatic Aldehydes Using (L)-Valine Derivative (Department of Chemistry, National Defense Academy) TANIMURA, Yuya; YASUNAGA, Kenji; ISHIMARU, Kaori

## Saturday, March 23, PM

Chair: YOSHIDA, Suguru (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(2F1-28, 2F1-29, 2F1-30, 2F1-31, 2F1-32, 2F1-33)
- 2F1-28** Synthesis and properties of cyclotrimerization complex of 4,5-dialkyl-1,2-bis(5-tropolonylethynyl)benzenes (Graduate School of Environment and Information Science, Yokohama National University) SUMI, Chisaki; OTANI, Hiroyuki; SULTANA, Fatema; IYODA, Masahiko
- 2F1-29** Synthesis and Properties of *m*-Terphenyl Type 5,5-Bitropolone (Graduate School of Environment and Information Science, Yokohama National University) LI, Qian; OTANI, Hiroyuki
- 2F1-30** Synthesis and properties of 3-(4-*N,N*-dimethylaminophenylthienyl)-8-cyano-8-benzoyloxycarbonylheptafulvene (Graduate School of Environment and Information Science, Yokohama National University) HOSOYAMADA, Hayato; OTANI, Hiroyuki
- 2F1-31** A Highly Efficient Synthesis of 1,2-Bis(trimethylsilyl)benzenes Using a Hybrid Grignard Reagent (Saga Univ.) GONDO, Keisuke; KITAMURA, Tsugio
- 2F1-32** Pictet-Spengler Reaction in Subcritical Water (Graduate School of Engineering, Nagoya Institute of Technology) OGAWA, Masaki; HIRASHITA, Tsunehisa; ARAKI, Shuki
- 2F1-33** Intramolecular Dehydrative Cycloaromatization of (Biaryl-2-yl)acet-aldehydes: A Facile Synthesis of Polycyclic Aromatic Hydrocarbons (Faculty of Pure and Applied Sciences, University of Tsukuba) TAKAHASHI, Ikko; FUJITA, Takeshi; ICHIKAWA, Junji

Chair: FUJITA, Takeshi (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(2F1-35, 2F1-36, 2F1-37, 2F1-38, 2F1-39, 2F1-40)
- 2F1-35** Synthesis of aromatic oxophosphorus compounds by the Michaelis-Arbuzov-type reaction of arynes (Tokyo Med. & Dent. Univ.) YOSHIDA, Suguru; HOSOYA, Takamitsu

- 2F1-36** Rapid and efficient generation of benzyne via sulfoxide-metal exchange reaction (Tokyo Med. & Dent. Univ.; Nihon Univ.) UCHIDA, Keisuke; YOSHIDA, Suguru; HOSOYA, Takamitsu
- 2F1-37** A new method to generate benzyne triggered by boron "ate" complex (Tokyo Med. & Dent. Univ.) SUMIDA, Yuto; HOSOYA, Takamitsu
- 2F1-38** Synthesis and reactions of Ethyl 2-amino-3-haloazulene-1-carboxylate (Tokyo University of Science) NAKAGAWA, Hajime; TSUKADA, Satoru; ABE, Noritaka; GUNJI, Takahiro
- 2F1-39** Synthesis of Phosphinic Acid Bearing with Biaryl Skeleton (Graduate School of Science, Tohoku Univ.) NARUMI, Tomohiro; MOMIYAMA, Norie; TERADA, Masahiro
- 2F1-40** Selective Acylation of Phenolic Hydroxyls Mediated by Metal Fluorides (Konan Univ.) MIYAZAWA, Toshifumi; KAMISHIMA, Akihiro; DANJO, Hiroshi

Chair: OBORA, Yasushi (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(2F1-42, 2F1-43, 2F1-44, 2F1-45, 2F1-46, 2F1-47)
- 2F1-42** Iodine-Mediated Oxidative Cation Cyclizations of 1,1-Difluoro-1-alkenes: Synthesis of Difluorodibenzofulvenes (Faculty of Pure and Applied Sciences, University of Tsukuba) TAKANOHASHI, Tsuyoshi; FUJITA, Takeshi; ICHIKAWA, Junji
- 2F1-43** Construction of Multi-Helical Structure via Domino Friedel-Crafts-type Cyclization of 1,1-Difluoroalkenes (Faculty of Pure and Applied Sciences, University of Tsukuba) SUZUKI, Naoto; FUJITA, Takeshi; ICHIKAWA, Junji
- 2F1-44** Synthesis of Fluorinated Acenes by Domino Cyclization of Trifluoromethylalkenes (Faculty of Pure and Applied Sciences, University of Tsukuba) MIURA, Keisuke; KITAGAWA, Tsubasa; FUCHIBE, Kohei; ICHIKAWA, Junji
- 2F1-45** Acyl group introduction reaction of aromatic ring with trichlorotoluene (Department of Organic and Polymer Materials Chemistry, Tokyo Univ. of Agri. and Technol.) KUSAKABE, Taro; OKAMOTO, Akiko; YONEZAWA, Noriyuki
- 2F1-46** Synthesis of 2-pyridylphosphinate derivatives and their application as Lewis base catalysts. (Gifu University) ITO, Kousuke; OKA, Natsuhisa; ANDO, Kaori
- 2F1-47** Synthesis of ethynyl ketones from terminal alkynes and aldehydes using an indium catalyst (Tokyo Univ. of Science) SAKAI, Norio; KUROGI, Kotaro; IKEDA, Reiko; KONAKAHARA, Takeo

Chair: DANJO, Hiroshi (17 : 00~18 : 00)

- \* 16:50-17:00: interval for laptop PC connection.(2F1-49, 2F1-50, 2F1-52, 2F1-53)
- 2F1-49** Oxidative Aromatization with Copper and HBr Catalyst: Synthesis of Phenol Derivatives (Research Core for Interdisciplinary Sciences, Okayama University) KIKUSHIMA, Kotaro; NISHINA, Yuta
- 2F1-50\*** Photochemical Synthesis of Acenes Having Substituents at End-positions (Nara Institute of Science and Technology) KATSUTA, Shuhei; OHASHI, Chika; MOTOYAMA, Takao; MASUO, Sadahiro; NAKAYAMA, Ken-ichi; YAMADA, Hiroko
- 2F1-52** Synthesis and Properties of Diketone Precursor of Thiophene Fused Anthracene with Different Number of Fused Rings (Graduate School of Materials Science, Nara Institute of Science and Technology, DOJINDO LABORATORIES, Graduate School of Science and Engineering, Yamagata University, CREST, JST, PRESTO, JST) KANESHIGE, Yoshitaka; TATENAKA, Yuki; KATHUTA, Syuhei; OHASHI, Chika; KUZUHARA, Daiki; ARATANI, Naoki; NAKAYAMA, Ken-ichi; YAMADA, Hiroko
- 2F1-53\*** An Efficient Synthesis of Xanthone Derivatives (School of Pharmacy, Tokyo University of Pharmacy and Life Sciences/Department of Chemistry, Tokyo Institute of Technology) FUJIMOTO, Yuuki; ITAKURA, Ryohei; HOSHI, Hiroki; TAKEMURA, Ayano; KUROKAWA, Haruhito; ANDO, Yoshio; SUZUKI, Keisuke; MATSUMOTO, Takashi

## Sunday, March 24, AM

Chair: NAKAE, Takahiro (9 : 00~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3F1-01, 3F1-02, 3F1-03, 3F1-04, 3F1-05, 3F1-06)
- 3F1-01** The synthesis of novel pentacene dimer derivatives (Graduate School of Materials Science, Nara Institute of Science and Technology, PRESTO, JST, CREST, JST) TANAKA, Kazuki; ARATANI, Naoki; YAMADA, Hiroko
- 3F1-02** Synthetic approach of tetracene-fused TTF (Graduate School of Material Science, Nara Institute of Science and Technology) YAMASHITA, Masataka; KUZUHARA, Daiki; ARATANI, Naoki; YAMADA, Hiroko
- 3F1-03** Development of insulated  $\pi$ -conjugated molecules using a helical methylene chain (Graduate School of Engineering, Osaka University/Osaka Dental University) TAKAHASHI, Ryota; TSUDA, Susumu; FUJIWARA, Shin-ichi; IWASAKI, Takanori; KUNIYASU, Hitoshi; KAMBE, Nobuaki
- 3F1-04** Two-Component Lyotropic Liquid Crystal Formation by Cyclic Bis (ethynylhelicene oligomer) (Tohoku University International Advanced Research and Education Organization) SAITO, Nozomi; YAMAGUCHI, Masahiko
- 3F1-05** Synthesis of an Amphiphilic Ethynylhelicene Oligomer with Hydrophilic Terminal Group (Graduate School of Pharmaceutical Sciences, Tohoku

University) SAITO, Nozomi; KOBAYASHI, Higashi; YAMAGUCHI, Masahiko

- 3F1-06** Dimeric Aggregation of Chiral Hexadehydrotribenzo[12]annulene Containing Helicene (Graduate School of Pharmaceutical Sciences, Tohoku University) SAITO, Nozomi; TERAKAWA, Ryo; YAMAGUCHI, Masahiko

Chair: YAMADA, Hisatsugu (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(3F1-08, 3F1-09, 3F1-10, 3F1-11, 3F1-12, 3F1-13)

- 3F1-08** Synthesis and Structure-Property Relationship of 5,15-Diazaporphyrin Dimers (Department of Molecular Engineering, Graduate School of Engineering, Kyoto University; Kyoto Univ., WPI-iCeMS) FUJII, Daisuke; MATANO, Yoshihiro; IMAHORI, Hiroshi

- 3F1-09** Synthesis of conjugation-expanded bisBODIPYs and their physical properties as near-infrared dyes (Ehime Univ.) KITATSUKA, Manami; NAKAMURA, Mitsunori; NAKAE, Takahiro; MORI, Sigeki; OKUJIMA, Tetsuo; UNO, Hidemitsu

- 3F1-10** Development of a Novel Time Resolved Fluorescence Sensor for Singlet Oxygen (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) YOSHIHARA, Tomohiro; TAKI, Masayasu; YAMAMOTO, Yukio

- 3F1-11** Molecular Thermal Hysteresis during the Structural Changes of Sulfonamidohelicene Oligomer between Helix Dimer and Random Coil. (Grad. Sch. Pharm. Sci., Tohoku Univ.) SHIGENO, Masanori; KUSHIDA, Yo; YAMAGUCHI, Masahiko

- 3F1-12** Synthesis of Optically Active Oxycarbonylhelicene Oligomers (Tohoku Univ.) SHIGENO, Masanori; ITO, Tatsuya; YAMAGUTI, Masahiko

- 3F1-13** Sol-gel transition by acid/base response Aminomethylene Helicene Oligomers (Grad. Sch. Pharm. Sci., Tohoku Univ.) SHIGENO, Masanori; SATOH, Masahiko; KUSHIDA, Yo; ICHINOSE, Wataru; YAMAGUCHI, Masahiko

Chair: FUJIHARA, Tetsuaki (11 : 20~12 : 10)

\* 11:10-11:20: interval for laptop PC connection.(3F1-15, 3F1-17, 3F1-19)

- 3F1-15\*** Thermal Electrocylic Reaction of Thiazole Tetramers (Department of Chemistry, Graduate School of Science, Nagoya University; Research Center for Materials Science, Nagoya University; Institute of Transformative Bio-Molecules (WPI-ITBM), Nagoya University; PREST, Japan Science and Technology Agency) MOURI, Kazuhiro; SAITO, Shohei; YAMAGUCHI, Shigehiro

- 3F1-17\*** Synthesis of O,X-hybrid-type calix[4]arenes via Ullmann-type reaction (Graduate School of Engineering, Tohoku University) TANAKA, Shinya; NEBUYA, Satoru; NAKAMURA, Yuka; KOBAYASHI, Takahiro; MOROHASHI, Naoya; HATTORI, Tetsutaro

- 3F1-19** Study on high yield synthetic method for hexamer and octamer of p-tert butyl thiacalix[n]arenes (Akita Univ.) KIMURO, Takashi; YAMADA, Manabu; KONDO, Yoshihiko; HAMADA, Humio

## Sunday, March 24, PM

Chair: OHTA, Hidetoshi (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(3F1-35, 3F1-36, 3F1-37, 3F1-38, 3F1-39, 3F1-40)

- 3F1-35** Synthesis and optical resolution of 1-helicenol derivatives for the development of helicene-based catalysts. (School of Pharmacy, Iwate Med. Univ.) TSUJIHARA, Tetsuya; ONODERA, Shun; SUZUKI, Yoko; CHIBA, Shiori; SUZUKI, Takeyuki; HATANAKA, Minoru

- 3F1-36** Synthesis of Dissymmetric Biaryls by Cycloisomerization of o-Phenylenedynes (Masamune-Bergman Reaction) (Kumamoto Univ.; Kyushu Univ.) IRIE, Ryo; FURUSAWA, Masaki; IMAHORI, Tatsushi; IGAWA, Kazunobu; TOMOOKA, Katsuhiko

- 3F1-37** Chiral Amine-catalyzed Asymmetric Masamune-Bergman Reaction (Kumamoto Univ.; Kyushu Univ.) IRIE, Ryo; ARITA, Kosuke; FURUSAWA, Masaki; IMAHORI, Tatsushi; IGAWA, Kazunobu; TOMOOKA, Katsuhiko

- 3F1-38** Synthesis and Fluorescent Properties of Composite Materials of Two-Component Helicene Disulfide Gels and Gold Nanoparticles (Graduate school of Pharmaceutical Sciences, Tohoku University) YAMAMOTO, Koji; AN, Zengjian; SAITO, Nozomi; YAMAGUCHI, Masahiko

- 3F1-39** Synthesis of Distorted Chiral Di(adamantyl)chrysenes (Tohoku Univ.) YAMAMOTO, Koji; OYAMADA, Naohiro; SHENG, Xia; YAMAGUCHI, Masahiko

- 3F1-40** Synthesis of Chiral Russig's Blue Containing 1,8-Di(adamantyl)naphthalene Skeletons (Tohoku Univ.) YAMAMOTO, Koji; KOBAYASHI, Yuta; YAMAGUCHI, Masahiko

Chair: SAITO, Shohei (15 : 50~16 : 20)

\* 15:40-15:50: interval for laptop PC connection.(3F1-42, 3F1-43, 3F1-44)

- 3F1-42** Enantioselective Synthesis of [11]Helicene-Like Molecules via Rhodium-Catalyzed Double Intramolecular [2+2+2] Cycloaddition (Department of Applied Chemistry, Graduate school of Engineering, Tokyo University of Agriculture and Technology) KIMURA, Yuki; FUKAWA, Naohiro; MIYAUCHI, Yuta; TANAKA, Ken

- 3F1-43** Photochemical Synthesis and Properties of Oligothiophenyl Anthracene

Derivatives (Graduate school of Materials Science, Nara Institute of Science and Technology Material Science, PRESTO, JST, CREST, JST) SUGII, Shuhei; IKEDA, Shinya; MOTOYAMA, Takao; KUZUHARA, Daiki; ARATANI, Naoki; NAKAYAMA, Kenichi; YAMADA, Hiroko

- 3F1-44** Synthesis of B,O-Chelated dipyrromethene-boron complexes (Organic Chemistry Lab in Faculty of Science, Ehime University) SHIDA, Yoichi; TOMIMORI, Yuya; MORI, Shigeki; NAKAE, Takahiro; UNO, Hidemitsu; OKUJIMA, Tetsuo

## Room F2 FOREST HOUSE F302

### Organic Chemistry -Reaction and Synthesis- Heterocyclic Compounds

Saturday, March 23, AM

Chair: TAKIZAWA, Shinobu (9 : 00~10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(2F2-01, 2F2-02, 2F2-03, 2F2-04, 2F2-05, 2F2-06)

- 2F2-01** Synthesis of planar-chiral bispyridylmethane derivatives and their asymmetric cyclopropanation reactions (Waseda University) OGAWA, Narihito; MUGISHIMA, Nanako; KANOMATA, Nobuhiro

- 2F2-02** Asymmetric 1,3-Dipolar Cycloaddition of Azomethine Imines Utilizing Tartaric Acid Ester as a Chiral Auxiliary (kanazawa Univ., Graduate School of Natural Science and Technology) YOSHIDA, Mari; SASSA, Naotaru; KATO, Tomomitsu; SOETA, Takahiro; INOMATA, Katsuhiko; UKAJI, Yutaka

- 2F2-03** 1,3-Dipolar Cycloaddition of Azomethine Ylides Generated from 2-Acyl Aziridines (Kanazawa Univ., Graduate School of Natural Science and Technology) MIYAMOTO, Yoshiaki; WADA, Norihiro; SOETA, Takahiro; INOMATA, Katsuhiko; UKAJI, Yutaka

- 2F2-04** Asymmetric Hydrogenation of Multisubstituted Isoquinolines Catalyzed by Chiral Iridium Dinuclear Complexes (Graduate School of Engineering Science, Osaka University) NAGANO, Takuto; YAMAJI, Kenta; IIMURO, Atsuhiko; KANDULA, Sathaiah; KITA, Yusuke; MASHIMA, Kazushi

- 2F2-05** Mechanistic study of asymmetric hydrogenation of isoquinolinium salts (Graduate School of Engineering Science, Osaka University) YAMAJI, Kenta; KANDULA, Sathaiah; IIMURO, Atsuhiko; NAGANO, Takuto; KITA, Yusuke; MASHIMA, Kazushi

- 2F2-06** Chiral Lewis acid-catalyzed asymmetric O-H insertion reactions of rhodium carbenoids derived from diazoacyloxazolidinones (Shinshu Univ.) ARISUE, Kaoru; ITOH, Kennosuke; SUGA, Hiroyuki

Chair: SUGA, Hiroyuki (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(2F2-08, 2F2-09, 2F2-10, 2F2-11, 2F2-12, 2F2-13)

- 2F2-08** Synthesis of and catalytic asymmetric Henry reactions with planar-chiral parapyridinophanes having functional groups on their ansa-bridges (Waseda University) MOTOSHIROMIZU, Takahiro; TANAKA, Mika; OGAWA, Narihito; KANOMATA, Nobuhiro

- 2F2-09** Design and Synthesis of Novel Planar-chiral Pyridinophanes Having Thermodynamically Less Flexible Ansa-bridges as Asymmetric Organocatalysts (Waseda University) FUJIYASU, Yosuke; OGAWA, Narihito; KANOMATA, Nobuhiro

- 2F2-10** Development of heterocyclic synthesis using cyclopropanation of optically active nitro compounds (Yamaguchi University) MORIYAMA, Takaaki; KAMIMURA, Akio

- 2F2-11** Development of Functionalized 1,2,3-Triazole and Their Applications to Enantioselective reaction (ISIR, Osaka University) YOSHIDA, Yasushi; TAKIZAWA, Shinobu; SASAI, Hiroaki

- 2F2-12\*** An Enantioselective Intramolecular Rauhut-Currier Reaction: Approach to ALPHA-Methylidene-GAMMA-butyrolactones using Organocatalyst (ISIR, Osaka University) NGUYEN, Tue; GROSSMAN, ANDRE; SUZUKI, Michitaka; TAKIZAWA, Shinobu; ENDERS, Dieter; SASAI, Hiroaki

- 2F2-13** Chiral Thiourea-catalyzed Asymmetric Diels-Alder Reaction of Alkylidene Oxindoles (Kochi Univ., Faculty of Science) MATSUGI, Aoi; YAMAUCHI, Tomoyuki; KOTSUKI, Hiroyoshi

Chair: KANOMATA, Nobuhiro (11 : 20~12 : 20)

\* 11:10-11:20: interval for laptop PC connection.(2F2-15, 2F2-16, 2F2-17, 2F2-18, 2F2-19, 2F2-20)

- 2F2-15** The Synthesis of Polycyclic Hetero Compounds via Intramolecular Radical Cyclization by using Photo-Organocatalyst (Graduate School of Science, Osaka Prefecture University) SAKAGUCHI, Tsukasa; UEDA, Mitsuhiro; RYU, Ilhyong

- 2F2-16** Practical Synthesis of Various Fluorescent 1,4-Dihydropyridines Using Multi-Component Coupling Reaction (Waseda Univ.) ZAITSU, Yuto; TAKEI, Ryo; ABE, Junya; SUEKI, Shunsuke; SHIMIZU, Isao

- 2F2-17** Emission Properties of Alloxan Substituted Flavin (Graduate School of Engineering Science, Osaka Univ.) IMADA, Yasushi; SUZUKI, Haruka; KOMIYA, Naruyoshi; NAOTA, Takeshi
- 2F2-18** Synthesis and properties of fluorescent  $\lambda^5$ -Phosphinines (Ehime University) OCHI, Yusuke; SASAKI, Shino; KAIHARA, Kunihiko; WATANABE, Yutaka; OHTA, Hidetoshi; ASahi, Tsuyoshi; HAYASHI, Minoru
- 2F2-19** Synthesis and properties of 3-oxo- $\lambda^5$ -phosphole derivatives (Ehime University) NAGASHIO, Junki; KIKUCHI, Mitsuru; WATANABE, Yutaka; OHTA, Hidetoshi; HAYASHI, Minoru
- 2F2-20** A novel synthesis of  $\lambda^3$ -phospholes by transformation of 3-oxo- $\lambda^5$ -phospholes (Ehime University) SEIRYU, Wakana; WATANABE, Yutaka; OHTA, Hidetoshi; HAYASHI, Minoru

## Saturday, March 23, PM

Chair: HAYASHI, Minoru (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(2F2-28, 2F2-29, 2F2-30, 2F2-31, 2F2-32, 2F2-33)
- 2F2-28** Dearomatizing Conversion of Pyrazine and Pyridine Derivatives via Transition-Metal-Free Addition Reactions of Diboron and Silylboronic Ester (Kyoto Univ.) OHMURA, Toshimichi; MORIMASA, Yohei; OSHIMA, Kazuyuki; SUGINOME, Michinori
- 2F2-29** Application of Proline-Based Chiral Ionic Liquids for Asymmetric Michael Reaction (Oita University) YAMAMOTO, Yuki; NOBUOKA, Kaoru; KITAOKA, Satoshi; ISHIKAWA, Yuichi
- 2F2-30** Conversion of Cellulose into Biofuel Utilizing Ionic Liquids (Oita University) NAKANO, Takashi; KITAOKA, Satoshi; NOBUOKA, Kaoru; ISHIKAWA, Yuichi
- 2F2-31** Acid-Catalyzed Ring Expansion Reaction of N-Aryl-2-vinylazetidines: Synthesis and Stability of Eight-Membered Nitrogen Heterocycles (Faculty of Science, Tokyo University of Science) SHIMIZU, Tomoaki; KOYA, Shunsuke; YAMASAKI, Ryu; MUTOH, Yuichiro; SAITO, Shinichi
- 2F2-32** Ring Expanding Metathesis Oligomerization of Nitrones(1) (Graduate School of Engineering Science, Osaka Univ) IMADA, Yasushi; MAEDA, Hiroki; KISHIMOTO, Masayuki; SUGANO, Yoshinori; OKITA, Chiaki; KANESHIRO, Hiroyuki; NISHIDA, Yuri; KOMIYA, Naruyoshi; NAOTA, Takeshi
- 2F2-33** Ring Expanding Metathesis Oligomerization of Nitrones(2) (Graduate School of Engineering Science, Osaka Univ) IMADA, Yasushi; MAEDA, Hiroki; KISHIMOTO, Masayuki; SUGANO, Yoshinori; OKITA, Chiaki; KANESHIRO, Hiroyuki; NISHIDA, Yuri; KOMIYA, Naruyoshi; NAOTA, Takeshi

Chair: OHMURA, Toshimichi (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(2F2-35, 2F2-37, 2F2-38, 2F2-39, 2F2-40)
- 2F2-35\*** Synthesis and Spectroscopic studies of Phthalocyanine Derivatives having Pentafluorosulfanyl groups (Graduate School of Engineering, Nagoya Institute of Technology) IIDA, Norihito; TOKUNAGA, Estuko; SHIBATA, Norio
- 2F2-37** A study of novel synthesis of tetrabenzoporphyrin metal complexes (Fac. Eng., Utsunomiya Univ.) MAKIHATA, Daishi; OBA, Toru; ITO, Satoshi
- 2F2-38** Synthesis and Analysis of Fluoro-coated Subphthalocyanines (Nagoya Institute of Technology) OI, Shota; MORI, Satoru; DASU, Baniburata; TOKUNAGA, Etsuko; SHIBATA, Norio
- 2F2-39** Total synthesis of aspidospermidine by formal cycloaddition of cyclobutanone and indole (Kanazawa Univ.) MATSUO, Jun-ichi; KAWANO, Mizuki; KIUCHI, Takaaki; ISHIBASHI, Hiroyuki
- 2F2-40** Synthesis of azulene-azaazulene conjugated oligomer having acetylene group. (Tokyo University of Science) SHITAUNE, Daigo; TSUKADA, Satoru; ABE, Noritaka; GUNJI, Takahiro

Chair: SHIBATA, Norio (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(2F2-42, 2F2-44, 2F2-45, 2F2-46, 2F2-47)
- 2F2-42\*** Synthesis of Poly-substituted Pyridodiazepine Derivatives from Pyridine and Cyclic Ureas (Fac. Pharm. Sci., Hokkaido Univ.) SAITO, Nozomi; NAKAMURA, Kenichi; SATO, Yoshihiro
- 2F2-44** N,N-acyltosylhydrazide as a novel synthetic synthon for constructing a tetrasubstituted carbon center possessing nitrogen (Hokkaido Univ.; Laboratory of Organic Chemistry II) SHOBO, Yoshihiro; SHOJI, Isamu; NAMBA, Kosuke; TANINO, Keiji
- 2F2-45** Development of new method for synthesis of ellipticine derivatives (Tokyo Univ. of Science) SATO, Daiki; IKEDA, Reiko; SAKAI, Norio; KONAKAHARA, Takeo
- 2F2-46** Synthesis of alpha-arylcabonyl compounds with 2-azido-1,3-dimethylimidazolium hexafluorophosphate (Kyusyu Institute of Technology) MURAKAMI, Kento; SHIRATAKE, Yuichiro; KOGA, Tatsuya; OKAUCHI, Tatsuo; KITAMURA, Mitsuru
- 2F2-47** Formation of Novel dibenzoxazepines by reaction of quinoline N-oxides with arylne (Faculty of Science, Fukuoka University) HIRANO, Koki; NAGAHORA, Noriyoshi; SHIOJI, Kosei; OKUMA, Kentaro

Chair: KITAMURA, Mitsuru (17 : 00~17 : 50)

- \* 16:50-17:00: interval for laptop PC connection.(2F2-49, 2F2-50, 2F2-51, 2F2-52, 2F2-53)
- 2F2-49** Development of New Synthetic Method of Furoxan (Kobe Univ.) SAEKI, Yuuta; MATSUBARA, Ryosuke
- 2F2-50** Synthesis of Heterocyclic Compounds Using 1-Aryl-2-pentene-1,4-diones and Cyclic Ketones (Kumamoto Univ.; Grad. School Sci. & Tec.; Dept. Chem.) NISHINO, Hiroshi; OHOISHI, Akihiro
- 2F2-51** Study on Dimerization of Acetoacetamide (Kochi Univ. of Technology) HIRAI, Sho; SUGIMOTO, Ryuichi; SAIGO, Kazuhiko; NISHIWAKI, Nagatoshi
- 2F2-52** Generation of Chirality Involving Photodimerization of Chromone-2-carboxylic esters (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; BABA, Nozomi; YAGISHITA, Fumitoshi; MINO, Takashi
- 2F2-53** Development of C2-chiral ligands by the photodimerization of chromone derivatives (Graduate School of Eng., Chiba Univ.) SAKAMOTO, Masami; UEDA, Yuki; YOSHIDA, Wataru; YAGISHITA, Fumitoshi; MINO, Takashi

## Sunday, March 24, AM

Chair: MINO, Takashi (9 : 00~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3F2-01, 3F2-02, 3F2-03, 3F2-04, 3F2-05, 3F2-06)
- 3F2-01** Synthesis of pyrrolinone and pyrrole derivatives using enamines and 1,2-diketones. (Tokyo Univ. of Science) KANAMORI, Taisuke; KATO, Takubo; IKEDA, Reiko; SAKAI, Norio; KONAKAHARA, Takeo
- 3F2-02** Synthesis of 2,2'-biimidazole conjugated by two 1,4-benzoquinone moieties. (Tokyo Univ. of Science) ISHIMOTO, Keita; KINISHITA, Izuru; SATAKE, Akiharu
- 3F2-03** Azide-Alkyne 1,3-Dipolar Cycloaddition Using 2-Ethynylpyridine-Copper Chloride catalyst (Institute of Science and engineering, Chuo) HIROKI, Hidekatsu; OGATA, Kenichi; FUKUZAWA, Shin-ichi
- 3F2-04** One-pot preparation of pyrazoles and isoxazoles from alkynes with aldehydes (Chiba Univ.) HIRIGAE, Ryo; MORIYAMA, Katsuhiko; TOUGOU, Hideo
- 3F2-05** Synthesis of carbazoles by the intramolecular coupling of diarylamines using supported palladium hydroxide catalysts. (Kyushu University) TSUNODA, Ryosuke; ISHIDA, Tamao; HAMASAKI, Akiyuki; OOHASHI, Hironori; YOKOYAMA, Takushi; TOKUNAGA, Makoto
- 3F2-06** Mechanism of Synthesis of 1,3-Dialkyltetrazolium-5-thiolate (Graduate School of Engineering, Nagoya Institute of Technology) MURAKAMI, Suguru; HIRASHITA, Tsunehisa; ARAKI, Shuki

Chair: ISHIDA, Tamao (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3F2-08, 3F2-09, 3F2-10, 3F2-11, 3F2-12)
- 3F2-08** Lewis acid-promoted Cyclization Reactions of Allenyl Esters and Amides of Ethenetricarboxylate (Nara Univ. of Education; Osaka Prefecture Univ.; Grad. Sch. Mat. Sci., NAIST) FUKUSHIMA, Yugo; YAMAZAKI, Shoko; OGAWA, Akiya; KAKIUCHI, Kiyomi
- 3F2-09** Lewis acid-promoted Halogenation/Cyclization of Allyl Amides of Ethenetricarboxylate (Nara Univ. of Education) YAMAZAKI, Shoko; FUJINAMI, Ken; UEDA, Kohta
- 3F2-10** Catalytic .5b.4.2b.1.5d. Cycloaddition of Isocyanides with N-Acyl Imine Equivalents.3a. Effective of Synthesis 5-Amino Oxazole Derivatives (Kanazawa University, Graduate of Natural Science and Technology) TAMURA, Kaname; SOETA, Takahiro; UKAJI, Yutaka
- 3F2-11** Synthesis and applications of various imidazo[1,5-a]pyridine carbenes (Department of Chemistry, Faculty of Engineering, Gifu University) KOTO, Yuma; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 3F2-12\*** Cyclization reactions of 1,6-dienes triggered by amination (Gifu University) NAGATA, Hayami; SUGIMOTO, Yuku; YOSHIMATSU, Mitsuhiro

Chair: RYU, Ilhyong (11 : 20~11 : 50)

- \* 11:10-11:20: interval for laptop PC connection.(3F2-15)
- 3F2-15** CSJ Award for Young Chemists Development of Efficient Synthetic Methods for Azaheterocycles Powered by Transition Metal-Catalyzed Redox Reactions (Nanyang Tech.Univ., Singapore) CHIBA, Shunsuke

## Sunday, March 24, PM

Chair: CHIBA, Shunsuke (14 : 20~15 : 20)

- \* 14:10-14:20: interval for laptop PC connection.(3F2-33, 3F2-34, 3F2-35, 3F2-36, 3F2-37)
- 3F2-33** Oxidation of 4-methylpyrrole-2-carboxylates with DDQ in the presence of a glycol (Kanazawa Univ., Graduate School of Natural Science and Technology) TAKAHASHI, Kana; IWAMOTO, Ryoji; SAKATA, Ryo; SOETA, Takahiro; INOMATA, Katsuhiko; UKAJI, Yutaka
- 3F2-34** Synthesis of Sterically Locked Phytochrome Chromophores Based on the Oxidation Reaction of Pyrrole Compounds. (Kanazawa University, Graduate School of Natural Science and Technology) SAKATA, Ryo; IWAMOTO, Ryoji; CHEN, Liyi; INOMATA, Katsuhiko; UKAJI, Yutaka

- 3F2-35** Synthesis of Sterically Fixed Phytochrome Chromophores Anchored to *meso*-Position by Regioselective Oxidation at *meso*-Position. (Kanazawa University, Graduate School of Natural Science and Technology) TANAKA, Yudai; IWAMOTO, Ryoji; INOMATA, Katsuhiko; UKAJI, Yutaka
- 3F2-36** Synthesis of dibenzonaphthyridines via tandem aldol-intramolecular Michael reaction of 2-acetylaminobenzaldehyde with acetophenones (Faculty of Science, Fukuoka University) KOGA, Tomohiro; NAGAHORA, Noriyoshi; SHIOJI, Kosei; OKUMA, Kentaro
- 3F2-37\*** Studies on the Reactivity of Trinitroquinolone and Functionalization (Kochi Univ. of Technology) CHEN, Xin; KOBIRO, Kazuya; SUGIMOTO, Ryuichi; SAIGO, Kazuhiko; NISHIWAKI, Nagatoshi

Chair: SHIOJI, Kosei (15 : 30~16 : 30)

- \* 15:20-15:30: interval for laptop PC connection.(3F2-40, 3F2-41, 3F2-42, 3F2-43, 3F2-44, 3F2-45)
- 3F2-40** Total Synthesis of Yaequinolone Derivatives via Generation and Ring Closure of Propadienechalcogenone Intermediates (Fac. Eng., Iwate Univ.) SHIMADA, Kazuaki; IZUMI, Hironori; KORENAGA, Toshinobu
- 3F2-41** A Novel One-Step Synthesis of a,b-Unsaturated Carbodithioate Esters from Propargyl Ethers (Faculty of Engineering, Iwate University) SHIMADA, Kazuaki; ISHIKAWA, Fumiya; KORENAGA, Toshinobu
- 3F2-42** Construction of neuroprotective function on 8-quinolinol scaffold (Okayama Univ., Toyama National College of Technology) WANG, Ming-qing; YONEZAWA, Mizuhiko; WANG, Li; PANG, Cui-qing; KAWAFUCHI, Hiroyuki; INOKUCHI, Tsutomu
- 3F2-43** Microwave-assisted Multicomponent Reaction for the Synthesis of Tetrahydroquinolinone Derivatives (Okayama Univ., Toyama National College of Technology) SHABAN, Elkhabiry; HOSSAIN, Md.Imran; NAGAE, Sachie; WANG, Ning; KAWAFUCHI, Hiroyuki; INOKUCHI, Tsutomu
- 3F2-44** Regioselective N-Methylation of Indolo[3,2-c]quinolines and Derivative Synthesis (Okayama Univ., Toyama National College of Technology) WANG, Ning; IMAI, Kento; PANG, Cui-qing; LU, Wen-jie; KAWAFUCHI, Hiroyuki; INOKUCHI, Tsutomu
- 3F2-45** Synthesis of bis (quinoline-crowned-2-benzimidazole) connected through a bis amide moiety and its interaction with alkali metal ions (Tokyo Univ. of Science) TANAKA, Kazuo; SATAKE, Akiharu

Chair: KORENAGA, Toshinobu (16 : 40~17 : 30)

- \* 16:30-16:40: interval for laptop PC connection.(3F2-47, 3F2-48, 3F2-49, 3F2-50, 3F2-51)
- 3F2-47** Synthesis and Characterization of Thermally Stable Monosubstituted Thiophene 1-Oxide and 1-Imides (Waseda University) MIYOSHI, Mayu; OTANI, Takashi; SHIBATA, Takanori; MATSUO, Tsukasa; TAMAO, Kohei
- 3F2-48** Synthesis of 3,7-dialkoxybenzo[1,2-b:4,5-b']dithiophene Derivatives (Faculty of Engineering, Osaka University) MINAMI, Sojiro; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro
- 3F2-49** Synthesis of aromatic sultam from aromatic sulfonamide (Tokushima Bunri University) KATAGIRI, Kosuke; KUNITOMI, Nobuto; MIURA, Marina; KAWAGUCHI, Taichi; SAKAI, Takahiro; TOMINAGA, Masahide; AZUMAYA, Isao
- 3F2-50** NHC Copper Complexes Catalyzed Direct Thiolation of Benzothiazole (Institute of Science and engineering, Chuo) FURUYA, Syoichi; INOMATA, Hiroshi; OGATA, Kenichi; FUKUZAWA, Shin-ichi
- 3F2-51** Synthesis of 2-alkylidene-3,1-benzoxathiin-4-ones and determination of cis-trans structures by oxidation. (National Inst. Adv. Ind. Sci & Tec ; Tokyo Univ. of Sci.) SHIMIZU, Masao; YAMANAKA, Masaki; ANDO, Wataru; SHIMADA, Shigeru; KONAKAHARA, Takeo

## Monday, March 25, AM

Chair: NISHIWAKI, Nagatoshi (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4F2-01, 4F2-02, 4F2-03, 4F2-04, 4F2-05)
- 4F2-01** Development of the Pd(II)-catalyzed cyclization and its application to the synthetic studies of indole skeleton(2) (Toyama Univ.) YOKOYAMA, Hajime; KUBO, Takayoshi; MIYAZAWA, Masahiro; HIRAI, Yoshiro
- 4F2-02** Development of Synthesis Methods for High LuminescentIndorizino [3,4,5-*ab*]isoindoles (Graduate School of Materials Science, Nara Institute of Science and Technology) MORIYAMA, Hirotake; MIYAKE, Satoshi; KUZUHARA, Daiki; ARATANI, Naoki; YAMADA, Hiroko
- 4F2-03** Development of a novel single-step construction of an indole skeleton from a propargyl acetate and an aniline by copper triflate (Tokyo Univ. of Science, Fac. of Sci. and Tech.) SAKAI, Norio; TKAYANAGI, Mitsumasa; IKEDA, Reiko; KONAKAHARA, Takeo
- 4F2-04** Synthesis of 4-azaindoles by a multi-component coupling reaction via *N*-vinylaminonitrile derivatives. (Tokyo Univ. of Science) SHIMIZU, Yuta; YANAGIBASHI, Kenji; SASADA, Toshiaki; IKEDA, Reiko; SAKAI, Norio; KONAKAHARA, Takeo
- 4F2-05\*** Me<sub>2</sub>AlCl-mediated carboxylation, ethoxycarbonylation, and *N*-(1-naphthyl)carbonylation of indoles (Graduate School of Engineering, Tohoku University) KONNO, Megumi; NEMOTO, Koji; ONOZAWA, Satoru; CHIBA, Masafumi; SASAKI, Yosuke; TANAKA, Shinya; HATTORI, Tetsutaro

Chair: TAKAHASHI, Masaki (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(4F2-08, 4F2-09, 4F2-10, 4F2-11, 4F2-12, 4F2-13)
- 4F2-08** Regioselective Aminomethylation of Indole by an Acid Catalyst (Tokyo Univ. of Science) SAKAI, Norio; OKANO, Hidetoshi; SHIMAMURA, Kazuyori; IKEDA, Reiko; KONAKAHARA, Takeo
- 4F2-09\*** Base-Mediated Carboxylation of Indole and Pyrrole Derivatives with Carbon Dioxide (Graduate School of Science, The Univ. of Tokyo) NGUYEN, Vu Quang Thanh; YOO, Woo-jin; KOBAYASHI, Shu
- 4F2-10** Trifluoromethanesulfonic acid-promoted transformation from *o*-alkylphenyl isocyanates to 3-alkylidene-oxindoles (Tokyo Univ. of Sci.) ODO, Toshifumi; KUTSUMURA, Noriki; SAITO, Takao
- 4F2-11** Withdrawn
- 4F2-12** Catalytic trifluoromethylation of indole derivatives (ERATO-JST / RIKEN) MIYAZAKI, Ayako; SHIMIZU, Ryo; EGAMI, Hiromichi; SODEOKA, Mikiko
- 4F2-13** The Development of Iron-catalyzed Synthesis of Heterocyclic Compounds (Tottori University) SAKAE, Mikei; OSHITANI, Shunsuke; HAYASE, Shuichi; NOKAMI, Toshiki; KAWATSURA, Motoki; ITOH, Toshiyuki

Chair: NOKAMI, Toshiki (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(4F2-15, 4F2-16, 4F2-17, 4F2-18, 4F2-19, 4F2-20)
- 4F2-15** Efficient Synthesis of Indole Alkaloids via Electrophilic Allylation Promoted by Pd-catalyst (Nagasaki Univ.) KURODA, Azusa; ONODERA, Gen; KIMURA, Masanari
- 4F2-16** Synthesis of Nitrogen-Containing Heterocycles via Amphiphilic Allylation of Imines and Nitriles (Nagasaki Univ.) YAMADA, Naoshi; SANADA, Syohei; ONODERA, Gen; KIMURA, Masanari
- 4F2-17** Development of a Synthetic Method for Chiral 3-Spiro- $\alpha$ -methylene- $\gamma$ -butyrolactone Oxindoles via Enantioselectively Catalytic Amido-allylation of Isatin Derivatives (Faculty of Engineering, Shizuoka University) MURATA, Yusuke; SHIDA, Masahiro; SENGOKU, Tetsuya; TAKAHASHI, Masaki; YODA, Hidemi
- 4F2-18** Synthetic Studies toward Stemaphylline, a New Insecticidal Stemonal Alkaloid (Faculty of Engineering, Shizuoka University) SENGOKU, Tetsuya; MAKINO, Yuto; ISOZAKI, Yuya; TAKAHASHI, Masaki; YODA, Hidemi
- 4F2-19\*** Stereoselective Synthesis of (+)-Batzellaside B from L-Pyroglutamic Acid (Faculty of Engineering, Shizuoka University) WIERZEJSKA, Jolanta; SUZUKI, Chihiro; SENGOKU, Tetsuya; TAKAHASHI, Masaki; YODA, Hidemi
- 4F2-20** Synthesis of Indolizines from Ethynylpyridines and their Oligomerization (Kochi Univ. of Technology) AWANE, Ayaka; SUGIMOTO, Ryuichi; SAIGO, Kazuhiko; NISHIWAKI, Nagatoshi

## Room F3

FOREST HOUSE F303

## Organic Chemistry -Reaction and Synthesis- Heteroatom Compounds

Friday, March 22, AM

Chair: SHIBAHARA, Fumitoshi (9 : 30 ~10 : 20)

- \* 9:20-9:30: interval for laptop PC connection.(1F3-04, 1F3-05, 1F3-06, 1F3-07, 1F3-08)
- 1F3-04** Application of Perfluoroalkylated Phosphines to catalytic Reactions and their recycling (Osaka Prefecture Univ.) MINAMIDA, Yoshiaki; KAWAGUCHI, Shin-ichi; OGAWA, Akiya
- 1F3-05** Highly Regioselective Hydroselelention to Terminal Alkynes by Use of Diselenide-Ph<sub>2</sub>P(O)H Mixed Systems under Photoirradiation (Graduate School of Engineering, Osaka Prefecture Univ.) KOBIKI, Yohsuke; KAWAGUCHI, Shin-ichi; OGAWA, Akiya
- 1F3-06** Regio- and stereospecific synthesis of (E)-1-iodoanilines with in situ generated HI (Ryukoku Univ.) SATO, H. Akihiro; OHASHI, Kazuhiro; IWASAWA, Tetsuo
- 1F3-07** 4b-Aza-12b-boradibenzo[g,p]chrysenes Possessing Electron-Withdrawing Groups: Synthesis and Physical Properties (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) AOKI, Yuma; HASHIMOTO, Sigma; HATAKEYAMA, Takuji; NAKAMURA, Masaharu
- 1F3-08** Synthesis of BN-fused Polycyclic Aromatic Compounds Containing Heterole Unit (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) HASHIMOTO, Sigma; HATAKEYAMA, Takuji; NAKAMURA, Masaharu

Chair: HATAKEYAMA, Takuji (10 : 30~11 : 20)

- \* 10:20-10:30: interval for laptop PC connection.(1F3-10, 1F3-11, 1F3-12, 1F3-13, 1F3-14)

**1F3-10** Synthesis and Properties of *o*-carborane Derivatives That Combine Different Emission Units (Graduate School of Engineering, Kyoto University) NAITOU, Hirofumi; TOMINAGA, Masato; MORISAKI, Yasuhiro; CHUJO, Yoshiki

**1F3-11** Effective synthesis of chiral diphosphacrowns (Graduate School of Engineering, Kyoto University) KATO, Ryosuke; MORISAKI, Yasuhiro; CHUJO, Yoshiki

**1F3-12** Oxidation of Sulfides with Hydrogen Peroxide Catalyzed by Vitamin B<sub>2</sub> Derivatives (Graduate School of Engineering Science, Osaka Univ.) TAKAGISHI, Masamitsu; IMADA, Yasushi; KOMIYA, Naruyoshi; NAOA, Takeshi

**1F3-13** Synthesis of *Z*- $\alpha$ , $\beta$ -unsaturated sulfones by using new Peterson reagents (Gifu University) OKUMURA, Miho; ANDO, Kaori

**1F3-14** Development of a new Julia-Kocienski reagent (Gifu University) KAWANO, Daiki; SEMII, Yutaka; ANDO, Kaori

Chair: TAJIMA, Tomoyuki (11 : 30~12 : 20)

\* 11:20-11:30: interval for laptop PC connection.(1F3-16, 1F3-17, 1F3-18, 1F3-19, 1F3-20)

**1F3-16** Syntheses and reaction of selenophosphonates having a binaphthyl group. (Department of Chemistry, Faculty of Engineering, Gifu University) MAEKAWA, Yuki; MONZAKI, Masaki; ANDO, Takafumi; MURAI, Toshiaki

**1F3-17** Synthesis of imidazo[1,5-*d*]pyridines having a hydroxy group and synthesis of monoanionic *N,O*-chelate type boron complexes. (Department of Chemistry, Faculty of Engineering, Gifu University) MIYAHARA, Keitaro; NAGAYA, Eri; SHIBAHARA, Fumitoshi; MURAI, Toshiaki

**1F3-18** Preparation of Asymmetric Double-headed Trifluoroacetates (Okayama University; Faculty of Engineering) HAMAGUCHI, Tomohiro; KATAGIRI, Toshimasa

**1F3-19** Electron transfer reduction by Mg-Cu in DMI-LiCl solvent (Okayama University, Faculty of engineering) YOSHIKAWA, Mai; KATAGIRI, Toshimasa

**1F3-20** Palladium-Catalyzed Intramolecular Selenocarbonylation of Alkynes with Carbamoselenoates Leading to Benzoselenophene Derivatives (Osaka Dental University; Graduate School of Engineering, Osaka University;) FUJIWARA, Shin-ichi; HIGASHIDA, Toru; TSUDA, Susumu; IWASAKI, Takanori; KUNIYASU, Hitoshi; KAMBE, Nobuaki

### Friday, March 22, PM

Chair: MURAI, Toshiaki (13 : 30~14 : 20)

\* 13:20-13:30: interval for laptop PC connection.(1F3-28, 1F3-29)

**1F3-28** Synthesis and Property of 2,9-Disubstituted Hexathiopentacene (Okayama Univ.) IOKA, Kenta; HAYASHI, Yuuki; TAJIMA, Tomoyuki; TAKAGUCHI, Yutaka

**1F3-29 CSJ Award for Technical Development** Development and commercialization of a new direct fluorination method for synthesizing perfluorinated compounds (Research Center, Asahi Glass Co., Ltd.) Okazoe, Takashi; Watanabe, Kunio; Oharu, Kazuya; Yanase, Kouichi; Shirakawa, Daisuke

Chair: NAKATA, Norio (14 : 30~15 : 20)

\* 14:20-14:30: interval for laptop PC connection.(1F3-34, 1F3-36, 1F3-38)

**1F3-34\*** Chemistry of Bora-Cyclophanes: Formation of Boron-Benzene  $\sigma$  Complex (Department of Chemistry, Graduate School of Science, Nagoya University; RCMS, Nagoya University; WPI-ITbM, Nagoya University) KUSHIDA, Tomokatsu; YAMAGUCHI, Shigehiro

**1F3-36\*** Synthesis and Characterization of B-Heterocyclic  $\pi$ -Radical and Its Reactivity as a Boryl Radical (The University of Tokyo) ARAMAKI, Yoshitaka; OMIYA, Hideki; YAMASHITA, Makoto; NAKABAYASHI, Koji; OHKOSHI, Shin-ichi; NOZAKI, Kyoko

**1F3-38** Synthesis of chiral tertiary alcohols via asymmetric chlorination of  $\beta$ -keto esters and subsequent S<sub>N</sub>2 substitution (Toyoashi Tech) SHIBATOMI, Kazutaka; IMOKAWA, Yusuke; NARAYAMA, Akira; IWASA, Seiji

Chair: ANDO, Kaori (15 : 30~16 : 20)

\* 15:20-15:30: interval for laptop PC connection.(1F3-40, 1F3-41, 1F3-42, 1F3-43, 1F3-44)

**1F3-40** One-pot synthesis of 3-hydroxybenzoates via Diels-Alder reaction of furans (Osaka Prefecture Univ.) SHINOHARA, Hiroyuki; SONODA, Motohiro; HAYAGANE, Naoya; OGAWA, Akiya

**1F3-41** Oxidations and Fluorescence Property of Thiophene-3(2H)-imine Derivatives synthesized by Intramolecular Cyano Diels-Alder Reaction (Saitama Univ.) AOKI, Yutaro; NAKATA, Norio; ISHII, Akihiko

**1F3-42** Synthesis of [SSSS]-Type Bis(thiophenolate) Ligand Bearing a trans-1,2-Cyclooctane Ring and Its Reaction with Platinum Complexes (Grad. Sch. Sci., Eng., Saitama Univ.) MIKAMI, Hiroki; TOYODA, Eriko; NAKATA, Norio; ISHII, Akihiko

**1F3-43** Synthesis and Property of Novel Unsymmetrical Diborane(4) Compound (Chuo Univ. Faculty of Science and Engineering) ASAKAWA, Hiroki; YAMASHITA, Makoto

**1F3-44** Synthesis and property of boryl substituted phosphine (Chuo Univ. Faculty of Science and Engineering) ASAMI, Syunsuke; OKAMOTO,

Masafumi; YAMASHITA, Makoto; SUZUKI, Kazunori

Chair: SATO, Soichi (16 : 30~17 : 20)

\* 16:20-16:30: interval for laptop PC connection.(1F3-46, 1F3-47, 1F3-48, 1F3-49, 1F3-50)

**1F3-46** Formation of Gold Cluster Stabilized by Coordination of Bissulfide or Dithiolate (Tokyo Metropolitan University) OONISHI, Takaya; HIRABAYASHI, Kazunori; SHIMIZU, Toshio

**1F3-47** Synthesis and Properties of Unsaturated Benzothiacrown Ethers (Tokyo Metropolitan University) MURAKAMI, Mai; HIRABAYASHI, Kazunori; SHIMIZU, Toshio

**1F3-48** A Novel Tridentate Ligand for Systematic Study on the Turnstile Rotation Mechanism: Application to Synthesis of Pentacoordinate Antimony Compounds (Fac. Sci., Toho Univ.) SUZUKI, Kaori; MATSUKAWA, Shiro; TAKAHASHI, Masashi

**1F3-49** Synthesis of Zirconium Complex having C<sub>1</sub>-symmetric [OSSO]-type Ligand and Olefin Polymerization (Saitama Univ.) YAMAMOTO, Hanako; TODA, Tomoyuki; NAKATA, Norio; ISHII, Akihiko

**1F3-50** Synthesis and Fluorescence Property of 3-Methylene-2,3-dihydrothiophene Derivative with Push-pull Substituents (Grad. Sch. Sci., Eng., Saitama Univ.) MAKISHIMA, Yukihiro; NAKATA, Norio; ISHII, Akihiko

Chair: YAMASHITA, Makoto (17 : 30~18 : 10)

\* 17:20-17:30: interval for laptop PC connection.(1F3-52, 1F3-53, 1F3-54, 1F3-55)

**1F3-52** Bifunctional Catalyst-Silver acetate/ThioClickFerrophos Catalyzed Asymmetric 1,3-Dipolar Cycloaddition of Azomethine Ylides with Electron Deficient Alkenes (Graduate School of Science and Engineering, Chuo Univ.) WATANABE, Sayo; TOKUMITSU, Chihiro; KONNO, Takashi; OGATA, Kenichi; FUKUZAWA, Shin-ichi

**1F3-53** Isolation and structure of Organo-telluranyl Dication (Department of Chemistry, Tokyo Metropolitan University, Institute for Chemical Research, Kyoto University) SATO, Soichi; AIHOSHI, Mitsushi; FUKUI, Takahiro; SUGAMATA, Koh; SASAMORI, Takahiro; TOKITOH, Norihiro

**1F3-54** Lewis Acid Catalyzed Reactions of Oxirane with Adamantyl Organosulfides. (Tokyo Metropolitan University) AIZU, Shigeaki; HIRABAYASHI, Kazunori; SHIMIZU, Toshio

**1F3-55** Azidation of beta-ketoesters under the condition using guanidine hydroiodide and UHP (Tokyo Univ. of Agriculture and Technology) KOJIMA, Kouhei; YAMAGUCHI, Takahisa; YASUI, Kouji; NAGASAWA, Kazuo

### Saturday, March 23, AM

Chair: SASAMORI, Takahiro (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(2F3-01, 2F3-03, 2F3-05, 2F3-06)

**2F3-01\*** Novel Coupling Reaction of Silyl Enol with Aromatic Compounds Using Iodonium Salt (Ritsumeikan Univ.) YAMAOKA, Nobutaka; NAKAMURA, Shota; SUMIDA, Kohei; DOHI, Toshifumi; KITA, Yasuyuki

**2F3-03\*** Organocatalyzed Enantioselective aza-MBH Reaction of Ketimines (ISIR, Osaka Univ. University of Bourgogne) TAKIZAWA, Shinobu; REMOND, Emmanuelle; ARTEAGA, Fernando Arteaga; YOSHIDA, Yasushi; BAYARDON, Jerome; VELLAISAMY, Sridharan; JUGE, Sylvain; SASAI, Hiroaki

**2F3-05** Evaluation of relationship between substituents and photophysical properties of 5-arylaminothiazoles. (Fac. Eng., Gifu Univ.) YAMAGUCHI, Kirara; HORI, Fumihiko; MURAI, Toshiaki

**2F3-06** One-Pot Cross-Coupling Synthesis of Thioethers Using Thiourea (Kochi University) YAMAMOTO, Atsushi; KANENO, Daisuke

Chair: NAKA, Kensuke (10 : 10~11 : 00)

\* 10:00-10:10: interval for laptop PC connection.(2F3-08, 2F3-10, 2F3-11)

**2F3-08\*** Silyl-migrations in frustrated Lewis pair chemistry of ((CH<sub>3</sub>)<sub>3</sub>SI)3P and B(p-C<sub>6</sub>F<sub>4</sub>H)<sub>3</sub> (Univ. of Toronto) TAKEUCHI, Katsuhiko; STEPHAN, Douglas W.

**2F3-10** Acene-selective hydrogenation catalyzed by FLP (Grad Sch Sci, Nagoya Univ; Univ. of Toronto) SEGAWA, Yasutomo; STEPHAN, Douglas W.

**2F3-11\*** Regioselective elimination of vicinal dibromides utilizing an adjacent heteroatom: Practical synthetic application to vinyl triflate (Fac. Sci., Tokyo Univ. of Sci.) KUTSUMURA, Noriki; TOGUCHI, Shohei; TANAKA, Osamu; YAMAGUCHI, Hitoshi; SAITO, Takao

Chair: MAEDA, Hajime (11 : 10~12 : 00)

\* 11:00-11:10: interval for laptop PC connection.(2F3-14, 2F3-15, 2F3-16, 2F3-17)

**2F3-14** Reactions of N-heterocyclic carbenes with various acetylenes (Shizuoka University) WATANABE, Yoshihiro; SAKAMOTO, Kenkichi

**2F3-15** Synthesis, structure, and reaction of sterically crowded triarylphosphines conjugated with cyano groups (Graduate School of Science, Tohoku University) SASAKI, Shigeru

**2F3-16** Synthesis and Oxidation Reactions of Polysubstituted Methylselenobenzenes (Department of Chemistry, Graduate School of Science and Engineering, Saitama University) FUJITA, Masahiro; SAITO, Masaichi



**2F3-17\*** Syntheses and Redox Behavior of Stable 1,2-Bis(ferrocenyl)dipnictene Derivatives (Institute for Chemical Research, Kyoto University) SAKAGAMI, Michiyasu; SASAMORI, Takahiro; TOKITOH, Norihiro

### Saturday, March 23, PM

Chair: SAITO, Masaichi (13 : 10~14 : 00)

- \* 13:00-13:10: interval for laptop PC connection.(2F3-26, 2F3-27, 2F3-28, 2F3-29, 2F3-30)
- 2F3-26** Reaction of [4+2] Cycloadducts of Selenocarbonyl Compounds and Cyclopentadiene with Organolithium Reagents (Kanazawa Univ.) NATORI, Naomasa; MAEDA, Hajime; SEGI, Masahito
- 2F3-27** Synthesis of Seleno-sugar Derivatives via Cycloaddition Reaction of Selenoaldehydes with Danishefsky's Diene (Kanazawa University) KOBAYASHI, Akane; MAEDA, Hajime; SEGI, Masahito
- 2F3-28** Synthesis of various aminomaleimide derivatives and their substituent effect on solid state luminescence (Grad. Sch. of Sci. and Tech., Kyoto Inst. of Tech.) KIZAKI, Kohei; NAKA, Kensuke
- 2F3-29** Synthesis of a novel platinum(II) complex with a cyclocorganoarsenic ligand showing room temperature solid-state luminescence (Kyoto Institute of Technology) UNESAKI, Hikaru; NAKA, Kensuke
- 2F3-30** Synthesis of novel bidentate cyclocorganoarsenic ligands by radical reaction of phenylacetylene and cyclooligoarsine (Grad. Sch. of Sci. and Tech., Kyoto Inst. of Tech) ADACHI, Hiroki; NAKA, Kensuke

Chair: IWAOKA, Michio (14 : 10~15 : 00)

- \* 14:00-14:10: interval for laptop PC connection.(2F3-32, 2F3-33, 2F3-34, 2F3-35, 2F3-36)
- 2F3-32** Synthesis and photochemical properties of fluorescence phosphonium salts having trivalent phosphine moiety (Faculty of Science, Fukuoka University) OGAWA, Yuya; YASUI, Shinro; NAKAGAWA, Hiroyuki; NAGAHORA, Noriyoshi; OKUMA, Kentaro; SHIOJI, Kosei
- 2F3-33** Synthesis of Novel Cycloalkane-fused Phosphinines (Faculty of Science, Fukuoka University) NAGAHORA, Noriyoshi; NISHIJIMA, Shuhei; SHIOJI, Kosei; OKUMA, Kentaro
- 2F3-34** Synthesis and Properties of Tetraalkyl-substituted Dibismuthane and Distibane Having Remarkably Long Pnictogen-Pnictogen Bonds (Graduate School of Science, Tohoku University) HIRAKAWA, Fumiya; ISHIDA, Shintaro; IWAMOTO, Takeaki
- 2F3-35** Preparations of Ethynylthiophene Derivatives Bearing Polar Functional Groups and Construction of Their Linked Systems (Graduate School of Science, Tohoku University) NAGANUMA, Daisuke; IWAMOTO, Takeaki; TOYOTA, Kozo
- 2F3-36** Synthesis, Structure and Reactions of *N*-Heterocyclic Carbene Adduct of Dichlorosilylalumane (Department of Chemistry, Graduate School of Science and Engineering, Saitama University) MATSUOKA, Ryota; SAITO, Masaichi

Chair: NAGAHORA, Noriyoshi (15 : 10~16 : 10)

- \* 15:00-15:10: interval for laptop PC connection.(2F3-38, 2F3-39, 2F3-40, 2F3-41, 2F3-43)
- 2F3-38** Formation of Thiophenes by the [3+2]Cycloaddition Reaction of 3-Aminothiocinnamaldehydes with Diazoalkanes Contrary to Frontier Orbital Theory (Josai Univ.) YAMAMOTO, Tatsuo; MURAOKA, Motomu; MATSUSITA, Shuuhei
- 2F3-39** Stochastic disulfide bond formation of polypeptides by using a water-soluble selenoxide reagent (Tokai University) NOGUUCHI, Masato; ARAI, Kenta; IWAOKA, Michio
- 2F3-40** Evaluation of the glutathione peroxidase-like activity of a water-soluble five-membered ring selenide having amino groups (Tokai University) TAKAHIRA, Motoi; ARAI, Kenta; IWAOKA, Michio
- 2F3-41\*** Synthesis of water-soluble five-membered ring selenides with a long-chain alkyl group and the application to oxidative protein folding (Tokai Univ.) ARAI, Kenta; MORIAI, Kenji; IWAOKA, Michio
- 2F3-43** Studies on the Generation of Low-coordinated Boron Species Utilizing Bulky Amino Substituents (Institute for Chemical Research, Kyoto University) TSUTSUMI, Yosuke; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro

Chair: ISHIDA, Shintaro (16 : 20~17 : 20)

- \* 16:10-16:20: interval for laptop PC connection.(2F3-45, 2F3-46, 2F3-48, 2F3-49, 2F3-50)
- 2F3-45** Development of selenium antioxidants with a long alkyl chain (Tokai University) KATAKURA, Arisa; LIN, Ying-yin; IWAOKA, Michio
- 2F3-46\*\*** Effect of structure and substitution on the one-electron redox reaction of organoselenium compounds. (Bhabha Atomic Research Centre, India) SINGH, Beena G.; IWAOKA, Michio; PRIYADARSINI, Indira K.
- 2F3-48** Dynamic Kinetic Resolution of *N*-protected amino acid esters by base hydrolysis with Chiral Phase-Transfer Catalysts derived from cinchona alkaloids. (Dept. of Chemistry, Kyushu Univ.; Catalysis Organic Chemistry Lab.) NAKAMURA, Ryota; YAMAMOTO, Eiji; HAMASAKI, Akiyuki; ISHIDA, Tamao; TOKUNAGA, Makoto
- 2F3-49** Striking Effect of Phosphonate Substituents on Photochemical Cyclization of *o*-Alkylbenzoyl Compounds (Graduate School of Engineering, Kyoto University) YUHKI, Tatsuya; ISHIDA, Naoki;

MURAKAMI, Masahiro

**2F3-50** Phosphine-mediated cycloaddition of thiophthalic anhydrides with polyynes. (Kyoto University; Graduate School of Engineering) INAMI, Tasuku; KURAHASHI, Takuya; MATSUBARA, Seijiro

### Sunday, March 24, PM

Chair: AGO, Tomohiro (12 : 30~13 : 20)

- \* 12:20-12:30: interval for laptop PC connection.(3F3-22, 3F3-24, 3F3-26)
- 3F3-22\*** Development of Photoinduced Reduction Using Lanthanoid Metals Aimed at Synthesis of Functional Polysilanes (Graduate School of Engineering, Osaka Prefecture University) YOSHIMURA, Aya; NOMOTO, Akihiro; OGAWA, Akiya
- 3F3-24\*** Syntheses and Properties of *N*-Hydroxysulfenamides in Various Environments for Steric Protection (Tokyo Institute of Technology) ISHIHARA, Michihiro; SASE, Shohei; GOTO, Kei
- 3F3-26** Synthesis of hexasilsequioxane with different substituents (Grad. Sch. Eng., Gunma Univ.) TANAKA, Satoshi; TAKEDA, Nobuhiro; UNNO, Masafumi

Chair: KIMURA, Takeshi (13 : 30~14 : 20)

- \* 13:20-13:30: interval for laptop PC connection.(3F3-28, 3F3-30, 3F3-32)
- 3F3-28\*** Syntheses and Structures of a Stable Alumole and its Dianion (Institute for Chemical Research, Kyoto University; Fukui Institute for Fundamental Chemistry, Kyoto University) WASANO, Tatsuya; AGOU, Tomohiro; JIN, Pen; NAGASE, Shigeru; TOKITOH, Norihiro
- 3F3-30\*** Organocatalyzed Asymmetric Allylic Trifluoromethylation and Kinetic Resolution of Morita-Baylis-Hillman Adducts (Graduate School of Engineering, Nagoya Institute of Technology) NISHIMINE, Takayuki; FURUKAWA, Tatsuya; FUKUSHI, Kazunobu; SHIBATA, Naoyuki; TOKUNAGA, Etsuko; SHIBATA, Norio
- 3F3-32** One-step Synthesis of Novel Trithia[5]helicene Derivatives Using Photocyclization Reaction (Grad. Sch. of Eng., Osaka Pref. Univ.; RIMED) YAMAMOTO, Atsushi; OHTA, Eisuke; MIZUNO, Kazuhiko; IKEDA, Hiroshi

Chair: KAWASHIMA, Takayuki (14 : 30~15 : 20)

- \* 14:20-14:30: interval for laptop PC connection.(3F3-34)
- 3F3-34# Special Lecture** New Insights in Enabling Phosphorus Chemistry (VU University Amsterdam) Koop Lammertsma

Chair: TAKEDA, Nobuhiro (15 : 30~16 : 20)

- \* 15:20-15:30: interval for laptop PC connection.(3F3-40, 3F3-41, 3F3-42, 3F3-43, 3F3-44)
- 3F3-40** Synthesis and metal chelation ability of tripodaltris-dithiocarbamate compound (Osaka Prefecture Univ.) KINOSHITA, Yuma; OZAKI, Toshiya; NOMOTO, Akihiro; UESHIMA, Michio; OGAWA, Akiya
- 3F3-41** Synthesis of platinum and palladium complexes coordinated by pyridine-Schiff base ligand bearing amino acid (Osaka Prefecture Univ.) SAKAI, Yuta; KINOSHITA, Yuuma; NOMOTO, Akihiro; YANO, Shigenobu; OGAWA, Akiya
- 3F3-42** Regio- and stereoselective addition of aromatic mercapto compounds to extended conjugated system (Osaka Prefecture Univ.) FUJIYAMA, Takuya; NAKAGAWA, Naoki; IKEDA, Takuma; NOMOTO, Akihiro; UESHIMA, Michio; OGAWA, Akiya
- 3F3-43** Synthesis and application to organic semiconductors of thiophene-condensed 1,4-dithiin derivatives (Faculty of Engineering, Iwate University) ITO, Hiroki; YAMAMOTO, Tatuya; MURAOKA, Hiroki; OGAWA, Satoshi
- 3F3-44** Preparation and electrochemical and optical properties of chalcogenotetraazaporphyrins with 4-methylpyridine as axial ligands (Iwate Univ.) KIMURA, Takeshi; MURAKAMI, Naoko

Chair: MINOURA, Mao (16 : 30~17 : 20)

- \* 16:20-16:30: interval for laptop PC connection.(3F3-46, 3F3-47, 3F3-48, 3F3-49, 3F3-50)
- 3F3-46** Synthesis and characterization of aryl-functionalized 2,4,6-tri(2-thienyl)-1,3,5-triazine derivatives (Fac. of Engin., Iwate Univ.) MURAOKA, Hiroki; MORI, Masayoshi; OGAWA, Satoshi
- 3F3-47** Synthesis and characterization of branched-type oligothiophene derivatives with a phosphole core (Fac. of Engin., Iwate Univ.) MURAOKA, Hiroki; UJIIE, Shinpei; OGAWA, Satoshi
- 3F3-48** Synthesis and optical property of silyl-substituted *N*-confused porphyrin. (Grad. Sch. Eng., Gunma Univ.) SAGAWA, Yuta; TAKEDA, Nobuhiro; UNNO, Masafumi
- 3F3-49** Isomerization reaction of cage-silsesquioxane (Gunma Univ.) SHIMADA, Ryo; TAKEDA, Nobuhiro; UNNO, Masafumi
- 3F3-50** Reactions of a Dialumene-Benzene Adduct with Acetylenes (Institute for Chemical Research, Kyoto University; Fukui Institute for Fundamental Chemistry, Kyoto University) NAGATA, Koichi; AGOU, Tomohiro; JIN, Peng; NAGASE, Shigeru; TOKITOH, Norihiro

Chair: MURAOKA, Hiroki (17 : 30~18 : 30)

- \* 17:20-17:30: interval for laptop PC connection.(3F3-52, 3F3-53, 3F3-54, 3F3-55, 3F3-56)
- 3F3-52** Synthesis of Indole Trifluoromethylsulfones(Triflones) by Thia-Fries

Rearrangement (Department of Engineering, Nagoya Institute of Technology) TANIGUCHI, Misaki; XU, Xiu-hua; TOKUNAGA, Etsuko; SHIBATA, Norio

- 3F3-53** Enantioselective Synthesis of Epoxides by Methylhydrazine-induced Aerobic Epoxidation of Trifluoromethyl-substituted Enones (Graduate School of Engineering, Nagoya Institute of Technology) OKUSU, Satoshi; KAWAI, Hiroyuki; TOKUNAGA, Etsuko; SHIBATA, Norio
- 3F3-54** Synthesis and Structure of *N*-silyl Substituted Thio, Seleno and Telluroreases (Kitasato Univ.) SHIRAI, Masaki; MINOURA, Mao; MAZAKI, Yasuhiro
- 3F3-55** Generation and Trapping Reactions of  $\alpha, \beta$ -Unsaturated Sulfenic Acid (Department of Chemistry, School of Science) YUKIMOTO, Mariko; MINOURA, Mao; MAZAKI, Yasuhiro
- 3F3-56\*** Electron Distribution Analysis of Triphospha[3]radialene and Its Radical Anion (Institute for Chemical Research, Kyoto Univ.) MIYAKE, Hideaki; SASAMORI, Takahiro; TOKITOH, Norihiro; HASHIZUME, Daisuke; FURUKAWA, Ko; JIN, Peng; NAGASE, Shigeru

### Monday, March 25, AM

Chair: NAKAHODO, Tsukasa (9 : 00 ~ 9 : 50)

- \* 8:50-9:00: interval for laptop PC connection.(4F3-01, 4F3-02, 4F3-03, 4F3-04, 4F3-05)
- 4F3-01** Synthesis of a Stable Selenoaldehyde through the Dehydration of a Primary-alkyl-substituted Selenenic Acid (Tokyo Institute of Technology) KAKIMOTO, Ryo; SASE, Shohei; GOTO, Kei
- 4F3-02** Elucidation of Thermal Decomposition Mechanism of *S*-Nitrosocysteine Derivatives (Tokyo Institute of Technology) IDEUE, Taku; SASE, Shohei; GOTO, Kei
- 4F3-03<sup>#</sup>** Reactivities of *N*-alkyl-*S*-fluoroiminosulfonium Salts towards Enolates. (Department of Applied Chemistry, Graduate School of Science and Technology, Univ. of Toyama) SHEIKH, Md. Chanmiya; KATOH, Kazuma; FUKUROI, Hironobu; YOSHIMURA, Toshiaki
- 4F3-04** Self-disproportionation of Enantiomers of Thalidomide and its Derivatives (Nagoya Institute of Technology) MAENO, Mayaka; TOKUNAGA, Etsuko; SHIBATA, Norio
- 4F3-05** Synthesis and biological activity of difluorothalidomide (Nagoya Institute of Technology) TAIRA, Hiromi; MAENO, Mayaka; TOKUNAGA, Etsuko; SHIBATA, Norio

Chair: SASE, Shohei (10 : 00 ~ 10 : 50)

- \* 9:50-10:00: interval for laptop PC connection.(4F3-07, 4F3-08, 4F3-09, 4F3-10, 4F3-11)
- 4F3-07** Palladium-catalyzed synthesis of unsymmetric diaryldisilanes and their optical properties (School of Science, The University of Tokyo) SHIMADA, Masaki; YAMANAI, Yoshinori; NISHIHARA, Hiroshi
- 4F3-08** Studies on the Synthesis of Chalcogen-substituted Phosphonium Species (Institute for Chemical Research, Kyoto University) SUGAMATA, Koh; SASAMORI, Takahiro; TOKITOH, Norihiro
- 4F3-09** Synthetic Study on Stable Phosphaaluminenes (Kyoto Univ.) IKEDA, Shin; AGOU, Tomohiro; TOKITOH, Norihiro
- 4F3-10** Click Functionalization of Polythiophene Nanotubes having Different Alkyl Chain (Kinki Univ. Faculty of Science and Engineering) ABIKO, Sho; NAKAHODO, Tsukasa; FUJIHARA, Hisashi
- 4F3-11** Synthesis and Properties of Metal Nanoparticle-Chiral Azo Polythiophene Nanotube Composites (Kinki Univ. Faculty of Science and Engineering) UEHIGASHI, Atsushi; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

Chair: OZAWA, Fumiyouki (11 : 00 ~ 11 : 50)

- \* 10:50-11:00: interval for laptop PC connection.(4F3-13)
- 4F3-13<sup>#</sup> Special Lecture** Developing the chemistry of monovalent phosphorus (Nanyang Technological University) Francois Mathey

### Monday, March 25, PM

Chair: UMEDA, Rui (13 : 10 ~ 14 : 00)

- \* 13:00-13:10: interval for laptop PC connection.(4F3-26, 4F3-27, 4F3-28, 4F3-29, 4F3-30)
- 4F3-26** Synthesis of chain-end and middle functionalized polymers by photo-induced radical coupling reaction of organotellurium compounds (ICR, Kyoto Univ.;CREST, JST) ARIMA, Takahiro; NAKAMURA, Yasuyuki; YAMAGO, Shigeru
- 4F3-27** Concise synthesis of branched polymers by using different reactivities of heteroatom compounds toward radicals (ICR, Kyoto Univ.;CREST, JST) YAHATA, Yoshikazu; YAMAGO, Shigeru
- 4F3-28** Synthesis of Vinylene-Linked Phosphole Derivatives Using Heck Reactions (Kyoto Univ., Grad. Sch. Eng.; WPI-iCeMS) HAYASHI, Yukiko; MATANO, Yoshihiro; IMAHORI, Hiroshi
- 4F3-29** Synthesis and Properties of Chiral Polythiophene Nanotubes bearing Ionic Liquid Moiety (Kinki Univ. Faculty of Science and Engineering) KITAMURA, Madoka; NAKAHODO, Tsukasa; FUJIHARA, Hisashi
- 4F3-30** Synthesis, Properties and Characteristics of Dithieno[2,3-*a*:3',2'-*c*]phenazine Derivatives (Fac. of Systems Engineering, Wakayama Univ.) TSUJI, Takuya; OSUGA, Hideji; YAMAMOTO, Shinpei; SAKAMOTO,

Hidefumi

Chair: NAKAMURA, Yasuyuki (14 : 10 ~ 15 : 00)

- \* 14:00-14:10: interval for laptop PC connection.(4F3-32, 4F3-33, 4F3-34, 4F3-35, 4F3-36)
- 4F3-32** Oxidation of *N,N*-Diarylamines with Benzeneseleninic Anhydride (Kansai Univ.) YOSHIMURA, Akira; UMEDA, Rui; NISHIYAMA, Yutaka
- 4F3-33** Synthesis of Multiple Substituted Pyrroles by Selenium-Catalyzed Reaction of Nitrobutanones with Carbon Monoxide (Kansai Univ.) MASHINO, Tsukasa; UMEDA, Rui; NISHIYAMA, Yutaka
- 4F3-34** Synthesis of amino acid derivatives via vinylphosphonium salts and Its Stereoselectivity (Faculty of Life and Medical Sciences, Doshisha Univ.) KOBAYASHI, Wataru; KISHIMOTO, Hiroaki; MASUDA, Atsushi; FURUKAWA, Isao; OE, Yohei; OHTA, Tetsuo
- 4F3-35**  $\text{Co}_2(\text{CO})_8$ -Catalyzed Thiolative Carbonylation of Internal Alkynes with CO. (Osaka Prefecture Univ.) HIGASHIMAE, Shinya; HIGUCHI, Yoshihiro; TAMAI, Taichi; NOMOTO, Akihiro; SONODA, Motohiro; OGAWA, Akiya
- 4F3-36** Development of Perfluoroalkylchalcogenation of Terminal Alkynes under Photoirradiation (Osaka Prefecture Univ.) TAMAI, Taichi; NOMOTO, Akihiro; SONODA, Motohiro; OGAWA, Akiya

Chair: MATANO, Yoshihiro (15 : 10 ~ 15 : 50)

- \* 15:00-15:10: interval for laptop PC connection.(4F3-38, 4F3-39, 4F3-40, 4F3-41)
- 4F3-38** Hydrosilylation of fluorine-containing alkenes (Kyoto Institute of Technology; Department of Chemistry and Materials Technology) IKEDA, Natsumi; KONNO, Tsutomu
- 4F3-39** Stereoselective synthesis of monofluoroalkenes *via* the ring-opening reaction of difluorocyclopropane derivatives (Kyoto Institute of Technology; Department of Chemistry and Materials Technology) HOSHINO, Tomoko; KONNO, Tsutomu
- 4F3-40** Green Oxidation of Alcohols Using Vanadium Catalysts in Water (Osaka Prefecture Univ.) HIGASHIURA, Yuuki; MARUI, Kuniaki; KODAMA, Shintaro; NOMOTO, Akihiro; UESHIMA, Michio; OGAWA, Akiya
- 4F3-41** Zn-porphyrin Complex Catalyzed Photoinduced Oxidation of Benzylamines under the Atmosphere of Oxygen (Osaka Prefecture Univ.) MARUI, Kuniaki; NOMOTO, Akihiro; UESHIMA, Michio; AKASHI, Haruo; YANO, Shigenobu; OGAWA, Akiya

## Room F4 FOREST HOUSE F304

### Organic Chemistry -Reaction and Synthesis- Metallo-organic Chemistry

Friday, March 22, AM

Ag

Chair: ASAO, Naoki (9 : 00 ~ 10 : 10)

- \* 8:50-9:00: interval for laptop PC connection.(1F4-01, 1F4-02, 1F4-04, 1F4-05, 1F4-06, 1F4-07)
- 1F4-01** Ring-Opening Fluorination of Cyclobutanols Catalyzed by Silver (Graduate School of Engineering, Kyoto University) OKUMURA, Shintaro; NAKANISHI, Yuuta; ISHIDA, Naoki; MURAKAMI, Masahiro

Au

- 1F4-02\*** Synthesis and Catalytic Activities of Gold Complexes Bearing  $\pi$ -Acceptor NHC Ligands in Hydroalkoxylation of Alkenes (Graduate School of Engineering, Tohoku University; Environment Conservation Research Institute, Tohoku University) SATO, Tetsuo; HIROSE, Yoichi; YOSHIOKA, Daisuke; SHIMOJO, Tsubasa; OI, Shuichi
- 1F4-04** Activation of  $\text{Ph}_3\text{PAuCl}$  catalyst with  $\text{SnCl}_2$  and activated Au-catalyzed nucleophilic addition of electron-rich arenes to alkynes (Sophia Univ.) TOCHIGI, Atsushi; OGURA, Satoshi; MIMURA, Marina; SUZUKI, Noriyuki; MASUYAMA, Yoshiro
- 1F4-05** Au(I)-Catalyzed Synthesis of Tricyclo[4.3.0.0<sup>5,7</sup>]nonene Framework via Oxidative 1,5-Enyne Cyclization (Dept. of Chem. and Biochem., Sch. of Adv. Sci. and Eng., Waseda Univ.) UETAKE, Yuta; NIWA, Takashi; NAKADA, Masahisa
- 1F4-06** Counter-anion Effect on DPCB-digold Complexes and Application for Asymmetric Reaction Using Chiral Anions (Graduate School of Science and Engineering, Tokyo Institute of Technology) NANKO, Masaki; MIKAMI, Koichi; AIKAWA, Kohsuke; ITO, Shigekazu
- 1F4-07** Asymmetric Dearomatization of Fused Arenes by Gold-Catalyzed Intramolecular Double C-C Bond Formation (Department of Applied Chemistry, Graduate school of Engineering, Tokyo University of Agriculture

and Technology) OKA, Junko; OKAMOTO, Ryuichi; SHIBUYA, Tetsuro; TANAKA, Ken

Chair: SUZUKI, Noriyuki (10 : 20~11 : 30)

\* 10:10-10:20: interval for laptop PC connection.(1F4-09, 1F4-10, 1F4-11, 1F4-12, 1F4-13, 1F4-14)

**1F4-09\*** Nanoporous gold catalyst for highly efficient diborylation of alkynes (WPI-AIMR, Tohoku University) CHEN, Qiang; JIN, Tienan; ASAO, Naoki; YAMAMOTO, Yoshinori

**1F4-10\*** Nanoporous gold catalyst for cross-dehydrogenative coupling via C-H bond activation (WPI-AIMR, Tohoku University) HO, Hon Eong; JIN, Tienan; ASAO, Naoki; YAMAMOTO, Yoshinori

## Ni

**1F4-11** Nickel-Catalyzed Homoallylation of Polyhydroxy N,O-Acetals Promoted by Organoboranes (Nagasaki Univ.) AKIOKA, Yusuke; MORI, Takamichi; ONODERA, Gen; KIMURA, Masanari

**1F4-12** Nickel-catalyzed Multi-component Coupling Reaction of Carbon Dioxide, Unsaturated Hydrocarbons and Organozinc Reagents. (Nagasaki Univ.) MORI, Yasuyuki; MORI, Takamichi; ONODERA, Gen; KIMURA, Masanari

## Zn

**1F4-13** Three-Component Coupling Reaction of Conjugated Ene-yne, Carbonyl Compounds and Organozinc Reagents (Nagasaki Univ.) HAYASHI, Maya; MORI, Takamichi; ONODERA, Gen; KIMURA, Masanari

## Ni

**1F4-14\*** Synthesis of oligothiophene dendrimers by nickel-catalyzed deprotonative cross coupling of thiophenes (Kobe University) TANAKA, Shota; TATSUTA, Go; MURAKAMI, Kohei; SUGIE, Atsushi; MORI, Atsunori

Chair: IWASAKI, Takanori (11 : 40~12 : 30)

\* 11:30-11:40: interval for laptop PC connection.(1F4-17, 1F4-18, 1F4-19, 1F4-20)

**1F4-17** Studies on multiple coupling of metallothiophenes with 2,3-dibromothiophene on the synthesis of branched oligothiophenes (Kobe University) TATSUTA, Go; TANAKA, Shota; SUGIE, Atsushi; MORI, Atsunori

**1F4-18** Synthesis of organic dye composed of oligothiophenes dendrimer with multiple coupling of thiophene derivatives (Kobe University) MURAKAMI, Kohei; TANAKA, Syota; SUGIE, Atsushi; MORI, Atsunori

**1F4-19** Nickel-catalyzed cycloaddition via elimination of carbon monoxide and carbon dioxide (Kyoto University; Graduate School of Engineering) NAKAI, Kenichiro; KURAHASHI, Takuya; MATSUBARA, Sejiro

**1F4-20\*** Ni-Catalyzed Selective Formation of Unsaturated Carboxylic Acids From Diketene and Alkynes (Nagasaki Univ.) MORI, Takamichi; ONODERA, Gen; KIMURA, Masanari

## Friday, March 22, PM

Chair: KITA, Yusuke (13 : 40~14 : 50)

\* 13:30-13:40: interval for laptop PC connection.(1F4-29, 1F4-30, 1F4-32, 1F4-33, 1F4-34)

**1F4-29** Asymmetric Synthesis of Helicenes via Enantioselective Ni-Catalyzed Intramolecular Alkyne Trimerization Using Chiral Helical Polymer Ligand PQXphos (Kyoto Univ.) ADACHI, Takumi; YAMAMOTO, Takeshi; SUGINOME, Michinori; JANCARIK, Andrej; STARY, Ivo; STARA, Irena.G.

**1F4-30\*** Alkylation of bromoalkanoic acids and benzothiazoles catalyzed by Ni in the presence of 1,3-butadiene (Graduate School of Engineering, Osaka University, Graduate School of Science, Osaka University, Graduate School of Engineering, Kyoto University) IWASAKI, Takanori; GHADERI, Arash; FUKUOKA, Asuka; HIGASHIKAWA, Kiyokazu; REDDY, Vutukuri Prakash; HO, Willbe W. S.; FUJIMOTO, Yukari; FUKASE, Koichi; TERAO, Jun; KUNIYASU, Hitoshi; KAMBE, Nobuaki

**1F4-32** Nickel-catalyzed four-component coupling reaction of 1,3-butadiene, alkyl fluoride and aryl Grignard reagent through dimerization of 1,3-butadiene (Graduate School of Engineering, Osaka University) FUKUOKA, Asuka; IWASAKI, Takanori; TERAO, Jun; KUNIYASU, Hitoshi; KAMBE, Nobuaki

**1F4-33** Practical synthesis of head-to-tail-type polythiophene block copolymer by cross-coupling polymerization. (Kobe university) NAKAMURA, Karin; TAMBA, Shunsuke; SUGIE, Atsushi; MORI, Atsunori

**1F4-34\*** Novel polythiophene synthesis via C-S bond cleavage by cross-coupling polymerization with thiophene derivatives (Kobe University) TAMBA, Shunsuke; NAKAMURA, Karin; SUGIE, Atsushi; MORI, Atsunori

Chair: ONODERA, Gen (15 : 00~16 : 00)

\* 14:50-15:00: interval for laptop PC connection.(1F4-37, 1F4-38, 1F4-39, 1F4-40, 1F4-41, 1F4-42)

**1F4-37** Ni(0)/Chiral NHC-Catalyzed Enantioselective[2+2] Cycloaddition Reaction of Enones with Conjugated Enynes (Faculty of Engineering, Osaka University) TAMAI, Eri; NISHIMURA, Akira; OHASHI, Masato; OGOSHI, Sensuke

**1F4-38** Nickel-Catalyzed Amination of N-Heteroaryl Methyl Ether (Faculty of Engineering, Osaka University) TOBISU, Mamoru; YASUTOME, Ayaka; YAMAKAWA, Ken; SHIMASAKI, Toshiaki; CHATANI, Naoto

**1F4-39** Nickel-Catalyzed Reductive and Borylation Reactions Involving the Cleavage of a Carbon-nitrogen Bond in Aniline Derivatives (Faculty of Engineering, Osaka University) TOBISU, Mamoru; NAKAMURA, Keisuke; CHATANI, Naoto

**1F4-40** Nickel-Catalyzed Reaction of Aromatic Amides with Alkyl Halides: Direct Carbon-Hydrogen Bond Alkylation (Faculty of Engineering, Osaka University) YOSHINORI, Aihara; CHATANI, Naoto

**1F4-41** Nickel-Catalyzed Domino Difluorocyclopropanation/Ring Expansion of Dienol Silyl Ethers: Synthesis of Five-Membered Difluoroenol Silyl Ethers (Faculty of Pure and Applied Sciences, University of Tsukuba) AONO, Tatsuya; SASAGAWA, Hisashi; FUCHIBE, Kohei; ICHIKAWA, Junji

**1F4-42** Synthesis of Benzoicyclic Ketones through Ni(0)-Catalyzed Intramolecular Hydroacylation of Alkenes (Faculty of Engineering, Osaka University) HAYASHI, Yukari; HOSHIMOTO, Yoichi; OHASHI, Masato; OGOSHI, Sensuke

Chair: NAKAO, Yoshiaki (16 : 10~17 : 20)

\* 16:00-16:10: interval for laptop PC connection.(1F4-44, 1F4-45, 1F4-46, 1F4-47, 1F4-48, 1F4-49, 1F4-50)

**1F4-44** Synthesis of Benzoasiloles via ( $\eta^2$ -Aldehyde)Ni(0) Complexes (Faculty of Engineering, Osaka University) YABUKI, Hayato; HOSHIMOTO, Yoichi; OHASHI, Masato; OGOSHI, Sensuke

**1F4-45** Nickel-Catalyzed Direct Alkylation of Heterocycles with  $\alpha$ -Halocarbonyl Compounds (Faculty of Engineering, Osaka University) NAKATANI, Akihiro; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro

**1F4-46** Ni(0)-catalyzed [2+2+2] cycloaddition of two alkynes with an imine (Faculty of Engineering, Osaka University) OHATA, Tomoya; OHASHI, Masato; OGOSHI, Sensuke

**1F4-47** Synthesis of Ni Complexes bearing novel Ligands and Application to Cross-Coupling Reactions (SCRI) MOCHIMARU, Shogo; TADAOKA, Hiroshi; YAMAMOTO, Tetsuya; YAMAKAWA, Tetsu

**1F4-48** Ni-Catalyzed Direct Alkenylation of Heteroarenes (Grad Sch Sci, Nagoya Univ; WPI-ITbM, Nagoya Univ) KAMADA, Yuko; LINGKUI, Meng; MUTO, Kei; YAMAGUCHI, Junichiro; ITAMI, Kenichiro

**1F4-49** Ni-Catalyzed Direct Coupling of Carbonyl Compounds and Phenol Derivatives (Grad Sch Sci, Nagoya Univ; WPI-ITbM, Nagoya Univ) TAKISE, Ryosuke; MUTO, Kei; YAMAGUCHI, Junichiro; ITAMI, Kenichiro

**1F4-50** Novel polythiophene synthesis by cross-coupling polycondensation with organolithium. (Kobe university) FUJI, Kanta; TAMBA, Shunsuke; SUGIE, Atsushi; MORI, Atsunori

Chair: OHASHI, Masato (17 : 30~18 : 40)

\* 17:20-17:30: interval for laptop PC connection.(1F4-52, 1F4-53, 1F4-55, 1F4-56, 1F4-57, 1F4-58)

**1F4-52** Cross-coupling polymerization of organolithium induced by Halogen Dance of thiophene derivatives (Kobe university) SHONO, Keisuke; TAMBA, Shunsuke; SUGIE, Atsushi; MORI, Atsunori

**1F4-53\*** Nickel-Mediated Defluorinative Coupling Reactions of Trifluoromethylalkenes with Alkynes (Faculty of Pure and Applied Sciences, University of Tsukuba) ICHITSUKA, Tomohiro; FUJITA, Takeshi; ICHIKAWA, Junji

**1F4-55** Nickel-Catalyzed Direct Synthesis of Fluoroarenes via [2+2+2] Cycloaddition of Difluoroethylene and Alkynes (Faculty of Pure and Applied Sciences, University of Tsukuba) ICHITSUKA, Tomohiro; WATABE, Yota; FUJITA, Takeshi; ICHIKAWA, Junji

## Pt

**1F4-56** Platinum porphyrin catalyzed cycloisomerization of enynes. (Kyoto University; Graduate School of Engineering) HASEGAWA, Makoto; KURAHASHI, Takuya; MATSUBARA, Sejiro

**1F4-57** Platinum-Catalyzed One-Pot Allylation of Carbon Electrophiles with Alkenylsilanes (Saitama Univ.) KIZU, Ryosuke; KINOSHITA, Hidenori; MIURA, Katsukiyo

**1F4-58** Platinum-Catalyzed Hydrative Dimerization of Alkynylsilanes: Improvement of Reaction Efficiency and Examination of Mechanistic Aspects (Saitama Univ.) KIKUCHI, Kasumi; KINOSHITA, Hidenori; MIURA, Katsukiyo

## Saturday, March 23, AM

### Fe

Chair: OGASAWARA, Masamichi (9 : 00 ~10 : 10)

\* 8:50-9:00: interval for laptop PC connection.(2F4-01, 2F4-03, 2F4-04, 2F4-05, 2F4-06, 2F4-07)

- 2F4-01\*** Iron-Catalyzed Nitrogen-Directed Aromatic C-H Bond Allylation with Allyl Phenyl Ether (Univ. of Tokyo) ASAKO, Sobi; NORINDER, Jakob; ILIES, Laurean; YOSHIKAI, Naohiko; NAKAMURA, Eiichi
- 2F4-03** Selective synthesis of 1,3-enynes via iron-catalyzed carbomagnesiation of 1,3-diyne (Univ. of Tokyo) YOSHIDA, Takumi; ILIES, Laurean; NAKAMURA, Eiichi
- 2F4-04<sup>#</sup>** Iron-Catalyzed Directed C(sp<sup>3</sup>)H Bond Arylation with Organozinc Reagents (Univ. of Tokyo) SHANG, Rui; MATSUMOTO, Arimasa; ILIES, Laurean; NAKAMURA, Eiichi
- 2F4-05<sup>#</sup>** Iron-Catalyzed Selective  $\delta$ -Addition of Aryl Grignard Reagents to  $\alpha, \beta, \gamma, \delta$ -Unsaturated Organophosphorus Compounds (Tokyo Institute of Technology) OH, Yun Taek; SUGANO, Goshi; HATA, Takeshi; URABE, Hirokazu
- 2F4-06** Iron-Catalyzed Diboration of Alkynes (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) NAKAGAWA, Naohisa; HATAKEYAMA, Takuji; NAKAMURA, Masaharu
- 2F4-07** Structural Analysis of Aryliron Intermediates and Mechanistic Studies of Iron-Catalyzed Cross-Coupling Reactions (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) NAKAJIMA, Sho; HASHIMOTO, Toru; NAKAGAWA, Naohisa; IMAYOSHI, Ryujii; GOWER, N. J.; SUNADA, Yusuke; NAGASHIMA, Hideo; ISOZAKI, Katsuhiko; HATAKEYAMA, Takuji; TAKAYA, Hikaru; NAKAMURA, Masaharu

Chair: KURAHASHI, Takuya (10 : 20~11 : 10)

- \* 10:10-10:20: interval for laptop PC connection.(2F4-09, 2F4-11, 2F4-12, 2F4-13)
- 2F4-09\*** Asymmetric Synthesis of Planar-Chiral  $\eta^5$ -Dihydroindenyl Complexes by Molybdenum-Catalyzed Asymmetric Ring-Closing Metathesis (Catalysis Research Center, Hokkaido Univ.; Aichi Univ. of Edu.) OGASAWARA, Masamichi; ARAE, Sachie; NAKAJIMA, Kiyohiko; TAKAHASHI, Tamotsu
- 2F4-11** Enantioselective Synthesis of Greg Fu's Planar-Chiral Ferrocene-DMAP Utilizing Ring-Closing Metathesis (Catalysis Research Center, Hokkaido Univ.; Graduate School of Science, Chiba Univ. Edu.) OGASAWARA, Masamichi; WADA, Shiro; ISSHIKI, Erika; YANAGISAWA, Akira; TAKAHASHI, Tamotsu; YOSHIDA, Kazuhiko

## Fe

- 2F4-12** Iron-Promoted Direct Arylation of Benzoquinones (Hiroshima Univ.) KOMEYAMA, Kimihiro; KASHIHARA, Tetsuya; TAKAKI, Ken
- 2F4-13** Iron-Promoted Direct Arylation of Heteroarenes (Hiroshima Univ.) KOMEYAMA, Kimihiro; NAGAO, Yuya; TAKAKI, Ken

Chair: OZAWA, Fumiyuki (11 : 20~12 : 10)

- \* 11:10-11:20: interval for laptop PC connection.(2F4-15, 2F4-18, 2F4-19, 2F4-20, 2F4-21)
- 2F4-15 CSJ Award for Young Chemists** Development of Iron-Catalyzed Cross-coupling Reactions Based on Mechanistic Studies (ICR, Kyoto Univ.) HATAKEYAMA, Takuji
- 2F4-18** Iron-Catalyzed ortho-C-H amination of Aromatic Amines (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) IMAYOSHI, Ryujii; HATAKEYAMA, Takuji; NAKAMURA, Masaharu
- 2F4-19** Iron-Catalyzed ortho-C-H Arylation of Aromatic Amines (International Research Center for Elements Science, Institute for Chemical Research, Kyoto Univ.) MOCHIZUKI, Ayaka; IMAYOSHI, Ryujii; GHORAI, Sujit.K.; HATAKEYAMA, Takuji; NAKAMURA, Masaharu

Chair: NISHIKATA, Takashi (12 : 10~12 : 30)

- 2F4-20** Iron porphyrinoids catalyzed hetero-Diels-Alder reaction of dienes and aldehydes. (Kyoto University; Graduate School of Engineering) KUWANO, Toru; KURAHASHI, Takuya; MATSUBARA, Seiji
- 2F4-21** Iron porphyrin catalyzed [3+2] cycloaddition of aziridines with carbonyl compounds. (Kyoto University; Graduate School of Engineering) TERANISHI, Satoru; KURAHASHI, Takuya; MATSUBARA, Seiji

## Saturday, March 23, PM

### Ru

Chair: SATO, Tetsuo (13 : 40~14 : 50)

- \* 13:30-13:40: interval for laptop PC connection.(2F4-29, 2F4-30, 2F4-31, 2F4-32, 2F4-33, 2F4-34)
- 2F4-29** Synthesis of Novel Ruthenium Complexes Bearing a Functional Bipyridonate Ligand and Dehydrogenative Oxidation of Alcohols Catalyzed by the Complexes (Kyoto Univ.) SANO, Hayato; FUJITA, Ken-ichi; YAMAGUCHI, Ryohei
- 2F4-30** Ruthenium-catalyzed formation of aromatic rings via cycloisomerization of 3,4-dicycloxy-1,5-diyne (Kyoto University) OKAMOTO, Kazuhiko; SAKATA, Naoki; MIKI, Koji; OHE, Kouichi
- 2F4-31** Ruthenium porphyrin catalyzed Diels-Alder reaction of enones with dienes. (Kyoto University; Graduate School of Engineering) TERADA,

- Takuma; KURAHASHI, Takuya; MATSUBARA, Seiji
- 2F4-32** Ruthenium-Catalyzed Transformation of Aryl and Alkenyl Triflates to Halides (Graduate School of Science, Kyoto University; IMRE, Singapore) UENO, Ryota; IMAZAKI, Yusuke; SHIRAKAWA, Eiji; HAYASHI, Tamio
- 2F4-33** Carbocycle-Selective Catalytic Asymmetric Hydrogenation of Quinolines (Kyushu Univ.) IKEDA, Ryuhei; HIRASADA, Kazuki; KUWANO, Ryouichi
- 2F4-34\*** Tandem hydroformylation/hydrogenation of alkenes to *normal*-alcohols using Rh/Ru dual catalyst system and its kinetic analysis for mechanistic study (The Univ. of Tokyo, Graduate School of Engineering) TAKAHASHI, Kohei; YAMASHITA, Makoto; NOZAKI, Kyouko

Chair: FUKUYAMA, Takahide (15 : 00~16 : 10)

- \* 14:50-15:00: interval for laptop PC connection.(2F4-37, 2F4-38, 2F4-39, 2F4-40, 2F4-41, 2F4-42, 2F4-43)
- 2F4-37** Tandem hydroformylation/hydrogenation of terminal alkene to *normal*-alcohol using singular Ru catalyst having cyclopentadienone ligand (The Univ. of Tokyo, Graduate School of Engineering) TAKAHASHI, Kohei; YAMASHITA, Makoto; NOZAKI, Kyouko
- 2F4-38** Ruthenium-Catalyzed Deamination and Alkylation of *o*-Acylanilines via C-N Bond Cleavage (Keio Univ.) KOREEDA, Tetsuro; KOCHI, Takuya; KAKIUCHI, Fumitoshi
- 2F4-39** Ruthenium-Catalyzed Monoalkenylation of Aromatic Ketones via Selective Cleavage of Carbon-Oxygen or Nitrogen Bonds (Keio Univ.) AKIBA, Nana; KOCHI, Takuya; KAKIUCHI, Fumitoshi
- 2F4-40** Catalytic Propargylic Substitution Reaction via Propargylic C-H Activation: Propargylic Alkylation of Terminal Alkynes (School of Engineering, The University of Tokyo) SENDA, Yasushi; SHIBATA, Masashi; MIYAKE, Yoshihiro; NISHIBAYASHI, Yoshiaki
- 2F4-41** Ruthenium-Catalyzed Ortho Selective Direct Benzoylation (Graduate School of Engineering and Environment Conservation Research Institute, Tohoku University) HIRASAWA, Kengo; SATO, Tetsuo; OI, Shuichi
- 2F4-42** Preparation of ethers from alcohols and acetals with ruthenium catalysis (Faculty of Life and Medical Sciences, Doshisha Univ.) ONAKA, Ryota; OE, Yohei; OHTA, Tetsuo
- 2F4-43** Ruthenium-Catalyzed anti-Markovnikov Hydroamination of Allylic Alcohols (Faculty of Life and Medical Sciences, Doshisha Univ.) NAKAMURA, Yushi; OE, Yohei; OHTA, Tetsuo

Chair: FUJITA, Ken-Ichi (16 : 20~17 : 30)

- \* 16:10-16:20: interval for laptop PC connection.(2F4-45, 2F4-46, 2F4-47, 2F4-48, 2F4-49, 2F4-50, 2F4-51)
- 2F4-45** Catalytic asymmetric cyclopropanation reactions of exo-methylene group and their synthetic applications (Synthetic Organic Chemistry Laboratory, Department of Environmental and Life Sciences, Toyohashi Univ. of Tech.) FURUKAWA, Shun; CHANTAMATO, Soda; SHIBATOMI, Kazutaka; IWASA, Seiji
- 2F4-46** New development of catalytic asymmetric cyclopropanation reactions of allenyl group (Toyohashi University of Technology; Synthetic Organic Chemistry Laboratory) KIMURA, Seiya; CHANTHAMATH, Soda; SHIBATOMI, Kazutaka; IWASA, Seiji
- 2F4-47** Asymmetric isomerization reaction of allylic alcohols catalyzed by BINAP/DBAPEN-Ru(II) complex (Faculty of Eng. & Frontier Chem. Center, Hokkaido Univ.) SATO, Keisuke; ARAI, Noriyoshi; OHKUMA, Takeshi
- 2F4-48\*** Ruthenium-Catalyzed Regioselective Addition of 1,3-Diketones to Terminal Alkynes (Graduate School of Science, Osaka Prefecture University) LOTARD, Benjamin; FUKUYAMA, Takahide; CELIA, Brancore; OKAMOTO, Hiromi; RYU, Ilhyong
- 2F4-49**  $\alpha$ -Alkylation of Acetamides Using Primary Alcohols Catalyzed by Ruthenium Hydride (Graduate School of Science, Osaka Prefecture University) KUWAHARA, Takashi; FUKUYAMA, Takahide; RYU, Ilhyong
- 2F4-50** Ruthenium Catalyzed C-H Arylation of Aromatic Nitriles with Arylboronates (Keio Univ.) KOSEKI, Yuta; KOCHI, Takuya; KAKIUCHI, Humitoshi
- 2F4-51** Short Synthesis of Tetrabenzocoronene Derivatives Using Catalytic Aromatic C-H and C-O Arylations (Keio Univ.) TERAII, Seiya; KITAZAWA, Kentaro; KOCHI, Takuya; KAKIUCHI, Fumitoshi

## Sunday, March 24, PM

Chair: KOCHI, Takuya (13 : 00~14 : 00)

- \* 12:50-13:00: interval for laptop PC connection.(3F4-25, 3F4-26, 3F4-27, 3F4-28, 3F4-29)
- 3F4-25** Asymmetric Hydrogenation of Alkynyl Ketones Catalyzed by  $\eta^6$ -Arene/TsDPEN-Ru(II) Complex (Faculty of Engineering & Frontier Chem. Center, Hokkaido University) SATOH, Hironori; ARAI, Noriyoshi; OHKUMA, Takeshi
- 3F4-26** Asymmetric Hydrogenation of Quinoxalines Catalyzed by Novel Ruthenabicyclic Complexes (Faculty of Eng. & Frontier Chem. Center, Hokkaido Univ.) SARUWATARI, Yu; ARAI, Noriyoshi; OHKUMA, Takeshi
- 3F4-27** Development of fac-Selective chiral PNN-type tridentate ligand, Ph-BINAN-Py-PPH<sub>2</sub> (Department of Chemistry and Department of Basic

Medicinal Sciences, Nagoya University and Research Center for Materials Science) YAMAMURA, Tomoya; NAKATSUKA, Hiroshi; TANAKA, Shinji; KITAMURA, Masato

- 3F4-28** Synthesis of Oligo(quinoline-2,3-diyl)s via Ru-Catalyzed Polycondensation of 3-Bromoquinoline: Iterative C-H Activation Directed by the Quinoline Nitrogen Atoms in the Main Chain (Kyoto Univ.) MIZUTA, Seiji; YAMAMOTO, Takeshi; NAGATA, Yuuya; SUGINOME, Michinori

## V

- 3F4-29\*** Enantioselective C-C Bond Forming Reactions Using Vanadium(V) Complexes (ISIR, Osaka Univ.) TAKIZAWA, Shinobu; KODERA, Junpei; ARTEAGA, Fernando Arteaga; YOSHIDA, Yasushi; NAGATA, Yoshihiro; SASAI, Hiroaki

Chair: NAGATA, Yuuya (14 : 10~15 : 20)

\* 14:00-14:10: interval for laptop PC connection.(3F4-32, 3F4-33, 3F4-34, 3F4-35, 3F4-36, 3F4-37)

- 3F4-32** Synthesis and Catalytic Function of Dinuclear Hemisalen Complexes for the Cross-Pinacol Coupling Reaction (Osaka Univ.) MIYASAKA, Akihiro; AMAYA, Toru; HIRAO, Toshikazu

- 3F4-33** Oxovanadium-Induced Synthesis of Ureas from Amines and Carbon Dioxide. (Osaka Univ.) MORIUCHI, Toshiyuki; KAWAI, Ryota; HIRAO, Toshikazu

- 3F4-34** Oxidative Cross-Coupling of Carbanion Analogues Induced by High-Valent Vanadium (Osaka Univ.) AMAYA, Toru; MAEGAWA, Yusuke; MASUDA, Takaya; HIRAO, Toshikazu

- 3F4-35** Vanadium-catalyzed chlorination under molecular oxygen (Osaka Univ.) MORIUCHI, Toshiyuki; KATO, Satoshi; HIRAO, Toshikazu

## Nb

- 3F4-36** NbCl<sub>5</sub>-mediated Synthesis of Amides by the reaction of olefins and nitriles (Faculty of Chemistry, Materials and Bioengineering, Kansai University) YASUDA, Kaoru; OBORA, Yasushi

- 3F4-37\*** Synthesis of Pyridines From Intermolecular cycloaddition of alkynes with nitriles catalyzed by NbCl<sub>5</sub>/Zn/alkoxysilane system (Faculty of Chemistry, Materials and Bioengineering, Kansai University) SATOH, Yasushi; OBORA, Yasushi

Chair: AMAYA, Toru (15 : 30~16 : 20)

\* 15:20-15:30: interval for laptop PC connection.(3F4-40, 3F4-41, 3F4-42, 3F4-43, 3F4-44)

- 3F4-40** Development of a novel method for the synthesis of quinoline derivatives by addition reaction of niobium carbenoid intermediate to  $\pi$  bond (Faculty of Science; Gakushuin University) RYUTARO, Ito; MORI, Keiji; AKIYAMA, Takahiko

## Si

- 3F4-41** Scandium-catalyzed [3+2] cycloaddition of allylsilanes to  $\beta$ -silylenones (Kyoto University) OKAMOTO, Kazuhiro; TAMURA, Eisuke; OHE, Kouichi

- 3F4-42** Cross-coupling Reaction of Organosilicon Reagents with Aryl Sulfonates through Intramolecular Activation (Graduate School of Engineering, Kyoto University; JST-PRESTO) OHGI, Akito; NAKAO, Yoshiaki; HIYAMA, Tamejiro

- 3F4-43** Cu(I)-Catalyzed Alkylation of Alkenyl and Arylsilanes via the Formation of Cyclic Silicates (Tokyo Univ. of Agric. and Tech.) TSUBOUCHI, Akira; MURAMATSU, Daisuke; TAKEDA, Takeshi

- 3F4-44** Titanocene(II)-Promoted Reaction of 1,3-Bis(phenylthio)-3-(trialkylsilyl)-1-propenes with Unsaturated Compounds (Tokyo Univ. of Agric. and Tech.) TAKEDA, Takeshi; FUJII, Tomoya; TSUBOUCHI, Akira

Chair: OKAMOTO, Kazuhiro (16 : 30~17 : 30)

\* 16:20-16:30: interval for laptop PC connection.(3F4-46, 3F4-47, 3F4-48, 3F4-49, 3F4-50, 3F4-51)

- 3F4-46** Preparation of Silyl Enol Ethers by the Carbonyl Olefination of Silyl Esters (Tokyo Univ. of Agric. and Tech.) TAKEDA, Takeshi; FUKADA, Tatsuya; TSUBOUCHI, Akira

- 3F4-47** Stereoselective Preparation of Conjugated Dienes by the Reaction of  $\gamma$ -Trimethylsilylallyltitanocenes with Ketones (Tokyo Univ. of Agric. and Tech.) TAKEDA, Takeshi; TATEISHI, Keiichi; FUJII, Tomoya; TSUBOUCHI, Akira

## Sn

- 3F4-48** Tin-catalyzed Addition-cyclization Reaction between  $\alpha$ -Hydroxyketones with Arylidene malononitriles (Research Center for Environmental Preserving, Graduate School of Engineering, Osaka University) TAKANO, Yugo; SHIBATA, Ikuya

- 3F4-49** Tin-catalyzed Addition-cyclization Reaction between 2-Methyleneaziridines with Arylidene malononitriles (Research Center for Environmental Preserving, Graduate School of Engineering, Osaka University) TAKAHASHI, Hiroki; SHIBATA, Ikuya

## Cr

- 3F4-50** Catalytic Asymmetric Synthesis of C-N Axially Chiral Compounds Utilizing Desymmetrization of (Arene)chromium Complexes by Asymmetric Ring-Closing Metathesis (Osaka Prefecture Univ.; Catalysis Research Center, Hokkaido Univ.) KAMIKAWA, Ken; NAKAMURA, Chihiro; ARAE, Sachie; WU, Wei-yi; TAKAHASHI, Tamotsu; OGASAWARA, Masamichi

## W

- 3F4-51** Efficient method for preparation of azepano[1,2-*a*]indole derivatives based on tungsten-catalyzed tandem cyclization reaction (Tokyo Institute of Technology) MINOWA, Akira; KARIBE, Yusuke; KUSAMA, Hiroyuki; IWASAWA, Nobuharu

## Mn

Chair: TANAKA, Shinji (17 : 40~18 : 50)

\* 17:30-17:40: interval for laptop PC connection.(3F4-53, 3F4-54, 3F4-55, 3F4-56, 3F4-57, 3F4-58, 3F4-59)

- 3F4-53** Modular Synthesis of Phenanthridine Derivatives by Oxidative Cyclization of 2-Isocyanobiphenyls with Organoboron Reagents (Faculty of Engineering, Osaka University) TOBISU, Mamoru; FURUKAWA, Takayuki; KOH, Keika; CHATANI, Naoto

## Zn

- 3F4-54** Asymmetric Synthesis of beta-hydroxyamide Derivatives via Reformasky type Reaction (Kyoto Univ.) HARAGUCHI, Ryosuke; MATSUBARA, Seijiro

- 3F4-55** Zinc catalyst mediated Michael Addition of 2-(1,3-dioxoisindolin-2-yl)malonates to Vinyl Ketones (Tottori University) HIROOKA, Souichirou; ISHIOKA, Akihiko; HAYASE, Shuichi; NOKAMI, Toshiki; ITOH, Toshiyuki

- 3F4-56** Nucleophilic cyclopropanation with the Furukawa reagent (Univ. of Hyogo) FUJII, Kanami; SUGIMURA, Takashi

- 3F4-57** Mechanistic Studies on Zinc-Catalyzed Dehydrogenative N-Silylation of Indoles with Hydrosilanes and Its Application to Dehydrogenative C-Silylation (School of Science and Technology, Meiji University) SEKINE, Masaru; IKETANI, Yoshihiko; TSUCHIMOTO, Teruhisa

## La

- 3F4-58** Lanthanum Metal-Mediated Reaction of Benzophenone and Electrophiles (Kansai Univ.) TOIYA, Shunsuke; UMEDA, Rui; NISHIYAMA, Yutaka

## Sr

- 3F4-59** Development and Application for Unexpected Sr-mediated Alkylation of Esters (Faculty of Integrated Arts and Sciences, The University of Tokushima) YAMAGUCHI, Yuka; MIYAZAKI, Yasuaki; ABIRU, Honami; KIKUCHI, Makoto; WADA, Makoto; MIYOSHI, Norikazu

## Monday, March 25, AM

## Se

Chair: MINO, Takashi (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(4F4-01, 4F4-02, 4F4-03, 4F4-04, 4F4-05, 4F4-06)

- 4F4-01** Synthesis and X-ray crystallography of optically active cycloalkene using organoselenium compound (Grad. Sch. Sci., Eng., Yamagata Univ.) NAKAZAWA, Yuri; KATOU, Akane; MURAKAMI, Satoshi; KATAGIRI, Hiroshi; WATANABE, Masataka; HATANNO, Bunpei; KIJIMA, Tatsuro

## Te

- 4F4-02** Novel alkoxytelluranes generated from epoxides and TeCl<sub>4</sub> (Kanagawa Univ) HAMAGUCHI, Kuniaki; JIN, Ren-hua

## Cu

- 4F4-03** Catalytic Aromatic Trifluoromethylation via beta-Carbon Elimination (Graduate School of Engineering, Gunma University) SHIMIZU, Naoto; KONDO, Hideaki; OISHI, Masahiro; FUJIKAWA, Kenichi; AMII, Hideki

- 4F4-04** Development of novel synthetic method of trifluoromethyl copper reagent and its application to trifluoromethylations (Graduate School of Science and Engineering, Tokyo Institute of Technology) SERIZAWA, Hiroki; AIKAWA, Kohsuke; MIKAMI, Koichi

- 4F4-05** Development of trifluoromethyl zinc reagent and its application to trifluoromethylations (Graduate School of Science and Engineering, Tokyo Institute of Technology) NAKAMURA, Yuzo; FUJII, Motohiro; AIKAWA, Kohsuke; MIKAMI, Koichi

**4F4-06** Copper-Catalyzed Three-component Silylstannylation of Alkynes (Graduate School of Engineering, Hiroshima University) YOSHIDA, Hiroto; ITO, Yu; TAKAKI, Ken

Chair: ITO, Hajime (10 : 10~11 : 00)

\* 10:00-10:10: interval for laptop PC connection.(4F4-08, 4F4-09, 4F4-10, 4F4-11, 4F4-12)

**4F4-08** Copper-Catalyzed Three-component Carboboration of Unsaturated Hydrocarbons (Graduate School of Engineering, Hiroshima University) YOSHIDA, Hiroto; KAGEYUKI, Ikuo; TAKAKI, Ken

**4F4-09** Copper-Catalyzed Hydroboration of Alkynes with an Unsymmetrical Diboron (Graduate School of Engineering, Hiroshima University) YOSHIDA, Hiroto; TAKEMOTO, Yuki; TAKAKI, Ken

**4F4-10** Copper-Catalyzed Distannylation of Alkynes (Graduate School of Engineering, Hiroshima University) YOSHIDA, Hiroto; SHINKE, Ayako; TAKAKI, Ken

**4F4-11** Copper-Catalyzed Formal Hydroamination of Alkenes with Electrophilic Amination Reagents (Faculty of Engineering, Osaka University) MIKI, Yuya; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro

**4F4-12** Copper-Catalyzed  $\alpha$ -Amination of Silyl Ketene Acetals with *N*-Chloroamines (Graduate School of Engineering, Kyoto University) MORIMOTO, Masao; MIURA, Tomoya; MURAKAMI, Masahiro

Chair: HIRANO, Koji (11 : 10~12 : 00)

\* 11:00-11:10: interval for laptop PC connection.(4F4-14, 4F4-15, 4F4-16, 4F4-17, 4F4-18)

**4F4-14** Copper(I)-Catalyzed Borylative Exo-Cyclization of Alkenyl Halides (Faculty of Engineering and Frontier Chemistry Center, Graduate School of Chemical Sciences and Engineering, Hokkaido Univ.University) KUBOTA, Koji; YAMAMOTO, Eiji; ITO, Hajime

**4F4-15** Copper(I)-Catalyzed Intramolecular Borylative Cyclization of Alkenyl Ketones (Faculty of Engineering and Frontier Chemistry Center, Graduate School of Chemical Sciences and Engineering, Hokkaido Univ.) KOJIMA, Ryoto; YAMAMOTO, Eiji; KUBOTA, Koji; ITO, Hajime

**4F4-16** Copper(I)-Catalyzed Enantioselective Synthesis of Optically Active Alkoxy Allylboronates (Faculty of Eng. & Frontier Chem. Center, Hokkaido Univ.) TAKENOUCHI, Yuta; YAMAMOTO, Eiji; OZAKI, Taichi; MIYA, Takanori; ITO, Hajime

**4F4-17** Copper-Catalyzed Asymmetric Propargylic Amination Using BIC-MAP Ligand (Chiba Univ.) MINO, Takashi; TAGUCHI, Hirofumi; HASHIMOTO, Masatoshi; SAKAMOTO, Masami

**4F4-18** Copper-Catalyzed Amination of Hydrofullerenes via C-H Functionalization (WPI-AIMR, Tohoku University) SI, Weili; JIN, Tienan; ASAO, Naoki; YAMAMOTO, Yoshinori

## Room F5

FOREST HOUSE F305

### Organic Chemistry -Reaction and Synthesis-Metallo-organic Chemistry

Friday, March 22, AM

#### B

Chair: NISHIMOTO, Yoshihiro (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(1F5-01, 1F5-03, 1F5-04, 1F5-05, 1F5-06)

**1F5-01\*** Formal Nucleophilic Boryl Substitution of Organohalides with Silylborane and Base (Faculty of Engineering and Frontier Chemistry Center, Graduate School of Chemical Sciences and Engineering, Hokkaido Univ.) YAMAMOTO, Eiji; IZUMI, Kiyotaka; ITO, Hajime

**1F5-03** Development of Novel Synthetic Method for Triarylborane with Silyldiarylborane/Alkoxy Base Systems (Faculty of Engineering and Frontier Chemistry Center, Graduate School of Chemical Sciences and Engineering, Hokkaido Univ.) IZUMI, Kiyotaka; YAMAMOTO, Eiji; ITO, Hajime

**1F5-04** Double Cross-Coupling Reaction of Cyclic Iodonium Salts and Organodiboron Compounds (Kyoto Inst. Tech.; Grad. Sch. Eng., Kyoto Univ.) KAKI, Rina; KADOWAKI, Tsugumi; SHIMIZU, Masaki

**1F5-05** Cross-Coupling Reactions with Lithium Methyltriolborate (Faculty of Engineering and Frontier Chemistry Center, Graduate School of Chemical Sciences and Engineering, Hokkaido Univ.) IKIZAKURA, Kazuya; ITO, Hajime; YAMAMOTO, Yasunori

#### AI

**1F5-06** Regioselective Synthesis of Polysubstituted Benzenes from Silylated Dienynes by Hydroalumination Followed by  $6\pi$ -Electrocyclization (Saitama Univ.) TOJIMA, Takayuki; KINOSHITA, Hidenori; MIURA, Katsukiyo

Chair: TSUCHIMOTO, Teruhisa (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(1F5-08, 1F5-09, 1F5-10, 1F5-11, 1F5-12, 1F5-13)

**1F5-08** Regioselective Synthesis of Polysubstituted Benzenes by Cross Reaction of Silylated 1,3-Enynes Using Diisobutylaluminum Hydride (Saitama Univ.) SAITOH, Masahiro; KINOSHITA, Hidenori; MIURA, Katsukiyo

**1F5-09** Diisobutylaluminum Hydride-Promoted Cyclization of Silylated Enynes: Efficient Synthesis of Indenes and Benzofulvenes (Saitama Univ.) HIRAI, Nobuyoshi; KINOSHITA, Hidenori; MIURA, Katsukiyo

#### In

**1F5-10** Indium Triiodide Catalyzed Direct Transformation from Amides to Highly-decorated Amines Using Hydrosilanes and Silyl Nucleophiles (Osaka University) INAMOTO, Yoshihiro; KAGA, Yuta; NISHIMOTO, Yoshihiro; YASUDA, Makoto; BABA, Akio

**1F5-11** Transformation from Carboxylic Acids to Secondary Alcohols Using Indium(III) Catalyst and Organosilicon Compounds (Osaka University) INAMOTO, Yoshihiro; NISHIMOTO, Yoshihiro; YASUDA, Makoto; BABA, Akio

**1F5-12** Coupling Reaction of Allenyl Ethers with Ketene Silyl Acetals Mediated by Indium Triiodide (Grad. Sch. Eng., Osaka Univ.) NISHIMURA, Takashi; NISHIMOTO, Yoshihiro; YASUDA, Makoto; BABA, Akio

**1F5-13** Indium-Catalyzed Domino Reactions of 1,1-Difluoroallenes: Facile Syntheses of Substituted Fluorophenanthrenes (Faculty of Pure and Applied Sciences, University of Tsukuba) FUCHIBE, Kohei; WATANABE, Shumpei; ZHAO, Nan; ICHIKAWA, Junji

Chair: KINOSHITA, Hidenori (11 : 20~12 : 10)

\* 11:10-11:20: interval for laptop PC connection.(1F5-15, 1F5-16, 1F5-17, 1F5-18, 1F5-19)

**1F5-15** Indium-Catalyzed Formal N-Arylation and N-Alkylation of Pyrroles with Amines (School of Science and Technology, Meiji University) OKI, Kenji; YONEKURA, Kyohei; TSUCHIMOTO, Teruhisa

**1F5-16** Sequential Alkylation of Pyrroles in Unusual Order Based on Indium Catalysis (School of Science and Technology, Meiji University) NOMIYAMA, Shota; OGURA, Takahiro; IGARASHI, Motohiro; TSUCHIMOTO, Teruhisa

**1F5-17** Photochemical Reaction of Organoindium Tetraphenylporphyrin Complexes by Visible Light (Graduate School of Engineering, Nagoya Institute of Technology) NISHIHARA, Sachiko; SUGIYAMA, Kazuki; HIRASHITA, Tsunehisa; ARAKI, Shuki

**1F5-18** Indium-Catalyzed Annulation of Heteroarylindoles with  $\alpha, \beta$ -Unsaturated Carbonyl Compounds in the Presence of a Hydride Reducing Agent (School of Science and Technology, Meiji University) JOHSHITA, Takahiro; SAMBAI, Kazuhiro; TSUCHIMOTO, Teruhisa

**1F5-19** Indium-Catalyzed Annulation of Heteroarylindoles with  $\alpha, \beta$ -Unsaturated Carbonyl Compounds in the Presence of a Bromine-Based Oxidizing Agent (School of Science and Technology, Meiji University) SAMBAI, Kazuhiro; JOHSHITA, Takahiro; TSUCHIMOTO, Teruhisa

Friday, March 22, PM

#### Co

Chair: SHIBAHARA, Fumitoshi (13 : 20~14 : 40)

\* 13:10-13:20: interval for laptop PC connection.(1F5-27, 1F5-29, 1F5-31, 1F5-32, 1F5-33, 1F5-34)

**1F5-27\*** Cobalt-Catalyzed Asymmetric Alkynylation of Carbon-Carbon Unsaturated Bonds (Graduate School of Science, Kyoto University) SAWANO, Takahiro; OU, Keiyu; ASHOURI, Akram; NISHIMURA, Takahiro; HAYASHI, Tamio

**1F5-29\*** Mechanistic study of cobalt(II)-catalyzed selective O-esterification over N-amidation (Graduate School of Engineering Science, Osaka University; Graduate School of Pharmaceutical Sciences, Kyushu University) HAYASHI, Yukiko; OHSHIMA, Takashi; MASHIMA, Kazushi

**1F5-31** Cobalt-Catalyzed Carboxylation of Propargyl Esters Employing CO<sub>2</sub> (Graduate School of Engineering, Kyoto University) NOGI, Keisuke; FUJIHARA, Tetsuaki; TERAOKA, Jun; TSUJI, Yasushi

**1F5-32** Efficient Recovery of Catalysts in Copolymerization of Epoxides with Carbon Dioxide (Univ. of Tokyo) FUJIE, Ryuhei; NAKANO, Koji; SHINTANI, Ryo; NOZAKI, Kyoko

**1F5-33** Efficient epoxide ring-opening by self-assembly Co-salan complex (Priority Organization for Innovation and Excellence, Kumamoto Univ.; Department of Chemistry, Graduate School of Science and Technology, Kumamoto Univ.) HAYASHI, Yusuke; IRIE, Ryo; KURIHARA, Seiji; IMAHORI, Tatsushi

**1F5-34** Cobalt-catalyzed oxidative cyanation of tertiary aromatic amines (Tokyo University of Science, Faculty of Science and Technology) SAKAI, Norio; MUTSURO, Akihiro; IKEDA, Reiko; KONAKAHARA, Takeo

## Cu

Chair: SAKAGUCHI, Satoshi (14 : 50~16 : 00)

- \* 14:40-14:50: interval for laptop PC connection.(1F5-36, 1F5-37, 1F5-38, 1F5-39, 1F5-40, 1F5-41)
- 1F5-36** Copper-catalyzed allylboration of allenes employing diboron and allyl phosphates (Graduate School of Engineering, Kyoto University) BESSHO, Naoto; SEMBA, Kazuhiko; FUJIHARA, Tetsuaki; TERAU, Jun; TSUJI, Yasushi
- 1F5-37** Copper-catalyzed synthesis of 2-boryl-1,3-butadiene derivatives via substitution reaction of  $\alpha$ -alkoxyallenes with a borylcopper species (Graduate School of Engineering, Kyoto University) SEMBA, Kazuhiko; FUJIHARA, Tetsuaki; TERAU, Jun; TSUJI, Yasushi
- 1F5-38** Copper-catalyzed  $\gamma$ -selective coupling between primary allylic phosphates and terminal alkynes with functionalized *N*-heterocyclic carbene ligands (Department of Chemistry, Faculty of Science, Hokkaido Univ.) SATOH, Tatsunori; MAKIDA, Yusuke; OHMIYA, Hirohisa; SAWAMURA, Masaya
- 1F5-39** Copper-Catalyzed Three-Component Coupling Reactions of Alkylboranes, Alkynoates and Electrophiles (Department of Chemistry, Faculty of Science, Hokkaido Univ.) WAKAMATSU, Takamichi; NAGAO, Kazunori; OHMIYA, Hirohisa; SAWAMURA, Masaya
- 1F5-40** Copper-catalyzed hydrocarboxylation of allenes using carbon dioxide and hydrosilanes (Graduate School of Engineering, Kyoto University) KUGA, Kazunari; TANI, Yosuke; FUJIHARA, Tetsuaki; TERAU, Jun; TSUJI, Yasushi
- 1F5-41\*** Copper-catalyzed silacarboxylation of carbon-carbon multiple bonds by using carbon dioxide and silylboranes (Graduate School of Engineering, Kyoto University) TANI, Yosuke; SEMBA, Kazuhiko; FUJIHARA, Tetsuaki; TERAU, Jun; TSUJI, Yasushi

Chair: OHMIYA, Hirohisa (16 : 10~17 : 10)

- \* 16:00-16:10: interval for laptop PC connection.(1F5-44, 1F5-45, 1F5-46, 1F5-47, 1F5-48, 1F5-49)
- 1F5-44** Copper-Catalyzed Asymmetric Allylic Substitution of Allyl Phosphates with Silylboronates (Kyoto Univ.; Univ. of Tokyo; IMRE) TAKEDA, Momotaro; SHINTANI, Ryo; HAYASHI, Tamio
- 1F5-45** Stereoselectivity in Copper-Catalyzed Reaction of *O*-Propargylic Oximes and Maleimides (Graduate School of Science, Tohoku Univ.) KUDO, Yu; NAKAMURA, Itaru; TERADA, Masahiro
- 1F5-46** Enantioselective Synthesis of Isochromans by Sequential Intramolecular Cyclization and Asymmetric Hydrogenation of *o*-Alkynylacetophenone Derivatives by Means of Chiral Copper(II) Phosphate (Gakushuin Univ.) KAJIWARA, Yuki; SAITO, Kodai; AKIYAMA, Takahiko
- 1F5-47** Stereoselective Synthesis of Unsaturated Lactones bearing an all-carbon Substituted Quaternary Center by Catalytic Conjugate Addition Using Multinuclear Copper Catalyst (Waseda University, Waseda Institute for Advanced Study) YAKEISHI, Sayuri; ENDO, Kohei; SHIBATA, Takanori
- 1F5-48** Cu-catalyzed Enantioselective Construction of Spiroquinoline Skeleton (ISIR, Osaka University) SAKO, Makoto; TAKENAKA, Kazuhiro; SASAI, Hiroaki
- 1F5-49** Synthesis of Dihydropyrimidines by Copper-Catalyzed Cascade Reaction of *O*-Propargylic Oximes and Isocyanates (Graduate School of Science, Tohoku University) ONUMA, Toshiki; ZHANG, Dong; NAKAMURA, Itaru; TERADA, Masahiro

Chair: OHSHIMA, Takashi (17 : 20~18 : 30)

- \* 17:10-17:20: interval for laptop PC connection.(1F5-51, 1F5-52, 1F5-53, 1F5-54, 1F5-55, 1F5-56, 1F5-57)
- 1F5-51** Copper-Catalyzed Stereodivergent Alkylation of 2-Butene-1,4-diol Derivatives with Alkylboranes (Department of Chemistry, Faculty of Science, Hokkaido Univ.) NAGAO, Kazunori; OHMIYA, Hirohisa; SAWAMURA, Masaya
- 1F5-52** Copper-Catalyzed Enantioselective Allylic Substitution with Alkylboranes (Department of Chemistry, Faculty of Science, Hokkaido Univ.) HOJOH, Kentaro; SHIDO, Yoshinori; OHMIYA, Hirohisa; SAWAMURA, Masaya
- 1F5-53** Asymmetric 1,2- and 1,4-additions using chiral copper catalysts in high chemoselectivity :the effects of the switching of ligands and solvents (Graduate School of Science and Engineering, Tokyo Institute of Technology) TORII, Kota; AIKAWA, Kosuke; MIKAMI, Koichi
- 1F5-54** Synthesis of a Chiral *N*-Heterocyclic Carbene bearing a Phosphate-Type Anionic Group and Application to Copper-Catalyzed Enantioselective Conjugate Addition Reactions (Department of Chemistry, Faculty of Science, Hokkaido Univ.) AKIYAMA, Yuki; IWAI, Tomohiro; SAWAMURA, Masaya
- 1F5-55** Design and synthesis of hydroxy-amide functionalized azolium salt derived from leucine and its utilization for Cu-catalyzed asymmetric conjugate addition reaction (Kansai Univ.) KAMIHIGASHI, Shun; SHIBATA, Naoatsu; SAKAGUCHI, Satoshi
- 1F5-56** Synthesis of hydroxy-alkyl substituted benzimidazolium salts from amino acids for Cu-catalyzed enantioselective conjugate addition reaction (Kansai Univ.) KAWASHIMA, Hiromasa; TATSUSHIRO, Ayako; SAKAGUCHI, Satoshi
- 1F5-57** Enantioselective Kinugasa Reaction between Terminal Alkynes and

Nitrones Catalyzed by Copper-Chiral Hydroxy Amino Phosphine Complexes (Department of Chemistry, Faculty of Science, Hokkaido Univ.) ISHII, Takaoki; OHMIYA, Hirohisa; SAWAMURA, Masaya

## Saturday, March 23, AM

Chair: NAKAMURA, Itaru (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2F5-01, 2F5-03, 2F5-05)
- 2F5-01\*\*** Construction of an all-carbon quaternary stereocenter in a chiral form by using allylic substitution (Tokyo Institute of Technology; Department of Bioengineering) FENG, Chao; KOBAYASHI, Yuichi
- 2F5-03\*** Copper-Catalyzed Carbon-Nitrogen Bond Formation Reaction Using Organoboron Reagents (The Univ. of Tokyo, CREST-JST) SUEKI, Shunsuke; KUNINOBU, Yoichiro
- 2F5-05\*\*** Copper-Catalyzed Oxidative Transformation of Amidines for Synthesis of Azaheterocycles (Division of Chemistry and Biological Chemistry, School of Physical and Mathematical Sciences, Nanyang Technological University, Singapore) SANJAYA, Stephen; CHIBA, Shunsuke; CHEN, Hui
- Chair: CHIBA, Shunsuke (10 : 10~11 : 10)
- \* 10:00-10:10: interval for laptop PC connection.(2F5-08, 2F5-09, 2F5-11, 2F5-12)
- 2F5-08** Cu-Catalyzed Regioselective Alkylative Carboxylation of Ynamide Using Carbon Dioxide and Alkylzinc Reagents (RIKEN) TAKIMOTO, Masanori; HOU, Zhaomin
- 2F5-09\*** Cu-Catalyzed Carboxylation of Aryl Aluminum Species Generated by C-H Bond Activation: Formal Catalytic C-H Carboxylation of Aromatic Compounds. (RIKEN) UENO, Atsushi; TAKIMOTO, Masanori; TAKAO, Ikariya; HOU, Zhaomin
- 2F5-11** Copper-Catalyzed Cyanation of Alkynes with Cyanogen Iodide (Kyoto University) OKAMOTO, Kazuhiro; WATANABE, Masahito; MURAI, Masahito; OHE, Kouichi
- 2F5-12\*\*** Copper-catalyzed boracarboxylation of styrenes with diborane and carbon dioxide (RIKEN) ZHANG, Liang; HOU, Zhaomin

Chair: TANAKA, Ken (11 : 20~12 : 30)

- \* 11:10-11:20: interval for laptop PC connection.(2F5-15, 2F5-18, 2F5-20, 2F5-21)
- 2F5-15** Young Scholar Lectures of CSJ Development of New Catalytic C-N Bond Formation Based on Electrophilic Amination Reagents (Department of Applied Chemistry, Faculty of Engineering, Osaka University) Hirano, Koji

## Rh

- 2F5-18\*** Synthesis of Cyclobutenes by [2+2] Cycloaddition of Terminal Alkynes with Electron-Deficient Alkenes Using 8-Quinololato Rhodium Catalysts (Keio Univ.) SAKAI, Kazunori; KOCHI, Takuya; KAKIUCHI, Fumitoshi
- 2F5-20** Dimerization of Terminal Alkynes and Addition of Active Methylene Compounds to 1,3-Enynes Catalyzed by an 8-Quinololato Rhodium Catalyst (Keio Univ.) MOCHIZUKI, Katsufumi; KOCHI, Takuya; KAKIUCHI, Fumitoshi
- 2F5-21** Cross-Coupling of Vinyl Halides with Arylboron Compounds under Rhodium(I) Catalysis (Tokyo Univ. of Science) MATSUDA, Takanori; SUZUKI, Kentaro; MIURA, Norio

## Saturday, March 23, PM

Chair: ARISAWA, Mieko (13 : 40~14 : 50)

- \* 13:30-13:40: interval for laptop PC connection.(2F5-29, 2F5-30, 2F5-31, 2F5-32, 2F5-33, 2F5-34)
- 2F5-29** Rhodium-Catalyzed Intramolecular Addition/Spirocyclization of Arylboronic Esters Bearing an  $\alpha, \beta$ -Unsaturated Ester (Tokyo Univ. of Science) YASUOKA, Satoshi; MATSUDA, Takanori
- 2F5-30** Arylative Cyclization of 1,4-Enynes with Arylboronic Acids via 1,4-Rhodium Migration (Tokyo Univ. of Science) MATSUDA, Takanori; WATANUKI, Shoichi
- 2F5-31** Synthesis of Azocine Derivatives by Rhodium-Catalyzed 2,3-Rearrangement/Heterocyclization Cascade (Graduate School of Science, Tohoku University) SATO, Yoshinori; NAKAMURA, Itaru; TERADA, Masahiro
- 2F5-32** Synthesis of *N*-Sulfonyl-2,5-disubstituted-4-oxazoline by Rhodium(II)-Catalyzed Denitrogenative Annulation of *N*-Sulfonyl-1,2,3-triazoles with Aldehydes (Graduate School of Engineering, Kyoto University) HIRAGA, Kentaro; MIURA, Tomoya; MURAKAMI, Masahiro
- 2F5-33** Synthesis of Tricyclic Dihydroindole Derivatives by Intramolecular [3+2] Cycloaddition of  $\alpha$ -Imino Rhodium Carbenes with Aromatic Rings. (Graduate School of Engineering, Kyoto University) FUNAKOSHI, Yuuta; MIURA, Tomoya; MURAKAMI, Masahiro
- 2F5-34\***  $\beta$ -Selective Direct Arylation of Pyrroles and Synthesis of Lamellarin I (Grad Sch Sci, Nagoya Univ; WPI-ITbM, Nagoya Univ) UEDA, Kirika; MACEICZYK, Richard; YAMAGUCHI, Junichiro; ITAMI, Kenichiro

Chair: YAMAGUCHI, Junichiro (15 : 00~16 : 10)

- \* 14:50-15:00: interval for laptop PC connection.(2F5-37, 2F5-39, 2F5-40,

2F5-41, 2F5-42, 2F5-43)

**2F5-37\*** Rhodium-catalyzed intra and intermolecular oxidative cross-coupling of (heater)arenes with heterocycles via twofold C-H cleavage (Graduate School of Engineering, Osaka University) REDDY, Vutukuri Prakash; QIU, Renhua; IWASAKI, Takanori; KAMBE, Nobuaki

**2F5-39** Synthesis and Characterization of Silica-Supported Tripod Phosphines: Application to Transition Metal Catalyzed Borylation of C(sp<sup>3</sup>)-H Bonds (Department of Chemistry, Faculty of Science, Hokkaido Univ.) IWAI, Tomohiro; TANAKA, Ryotaro; HARADA, Tomoya; SAWAMURA, Masaya

**2F5-40** Rhodium Catalyzed Olefinic sp<sup>2</sup>C-H Bond Carboxylation with CO<sub>2</sub> (Tokyo Institute of Technology) ISOBE, Kotaro; MIZUNO, Hajime; TAKAYA, Jun; IWASAWA, Nobuharu

**2F5-41** Rhodium(III)-Catalyzed Synthesis of Indoles from 1-Alkylidene-2-arylhydrazones and Alkynes via C-H and N-N Bond Cleavages (Tokyo Univ. of Science) TOMARU, Yuki; MATSUDA, Takanori

**2F5-42** Rhodium-Catalyzed [3+2+2] Cycloaddition of Cyclopropenones and 1,6-Enynes (Tokyo Univ. of Science) SAKURAI, Yusuke; MATSUDA, Takanori

**2F5-43** Rh-catalyzed Ring-opening Reaction of Cyclopropenones with Alkenes to Cyclopentenones (Kyoto Univ.) KONDO, Teruyuki; TANIGUCHI, Ryosuke; KIMURA, Yu; TOSHIMITSU, Akio

Chair: MATSUDA, Takanori (16 : 20~17 : 30)

\* 16:10-16:20: interval for laptop PC connection.(2F5-45, 2F5-46, 2F5-47, 2F5-48, 2F5-49, 2F5-50, 2F5-51)

**2F5-45** Synthesis of alpha-Arylcarbonyl Compounds from Diazoquinone (Kyushu Institute of Technology) ARAKI, Keiichi; FUKUZUMI, Noriyuki; MATSUZAKI, Hiroki; OKAUCHI, Tatsuo; KITAMURA, Mitsuru

**2F5-46** Rh-catalyzed benzylation reaction of heterocyclic compounds using benzyl phenyl ketone (Faculty of Pharmaceutical Sciences, Graduate School of Tohoku University) ARISAWA, Mieko; LI, Guangzhe; YAMAGUCHI, Masahiko

**2F5-47** Rhodium-Catalyzed Chemo-, Regio-, and Enantioselective Intermolecular Cyclotrimerization of Silylacetylenes, Acetylenedicarboxylates, and Acrylamides (Department of Applied Chemistry, Graduate school of Engineering, Tokyo University of Agriculture and Technology) HARA, Jun; ISHIDA, Mana; KOBAYASHI, Masayuki; TANAKA, Ken

**2F5-48** Enantioselective Construction of Spiro[2.5]octane Skeletons by Rhodium-Catalyzed [2+2+2] Cycloaddition (Department of Applied Chemistry, Graduate school of Engineering, Tokyo University of Agriculture and Technology) YOSHIDA, Tomoka; TAJIMA, Yuki; KOBAYASHI, Masayuki; TANAKA, Ken

**2F5-49** Asymmetric Synthesis of Axially Chiral Biaryls via Rhodium-Catalyzed Diastereoselective Double [2+2+2] Cycloaddition (Department of Applied Chemistry, Graduate school of Engineering, Tokyo University of Agriculture and Technology) MORI, Ayaka; ARAKI, Tatsuya; TANAKA, Ken

**2F5-50** Synthesis of Cyclic Heteroarylenes Containing Thiophenes by Consecutive Inter- and Intramolecular [2+2+2] Cycloadditions (Waseda University) FUJIMOTO, Masako; OTANI, Takashi; SHIBATA, Takanori

**2F5-51** Rh(III)-Catalyzed C-H Bond Activation along with Rollover for the Synthesis of 4-Azafluorenes (Waseda University) TAKAYASU, Satoshi; YUZAWA, Shun; OHTANI, Takashi; SHIBATA, Takanori

## Sunday, March 24, PM

Chair: MURAKAMI, Masahiro (13 : 30~14 : 30)

\* 13:20-13:30: interval for laptop PC connection.(3F5-28)

**3F5-28 CSJ Award for Creative Works** Development of Direct Aromatic Coupling by Transition Metal Catalysts (Grad. Sch. Eng., Osaka Univ.) MIURA, Masahiro

Chair: RYU, Ilhyong (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(3F5-35)

**3F5-35 CSJ Award for Creative Works** Development of New Catalytic Syntheses and Reactions of Highly Functionalized Organoboron Acids on the Basis of New Molecular and Reaction Design (Grad. Sch. Eng., Kyoto Univ.) SUGINOME, Michiki

## Ir

Chair: OBORA, Yasushi (15 : 50~17 : 00)

\* 15:40-15:50: interval for laptop PC connection.(3F5-42, 3F5-44, 3F5-45, 3F5-46, 3F5-47, 3F5-48)

**3F5-42\*** Cationic Ir(I)-Catalyzed Alkylation of Unreactive Bonds with Alkenes (Waseda University) PAN, Shiguang; MATSUO, Yusuke; RYU, Naoto; SHIBATA, Takanori

**3F5-44** Ir(I)-Catalyzed Synthesis of N-substituted Pyridones from 2-Alkoxy-pyridines via C-O bond Cleavage (Waseda University) RYU, Naoto; PAN, Shiguang; SHIBATA, Takanori

**3F5-45** Iridium-Catalyzed Vinyl C-H Borylation of  $\alpha, \beta$ -Unsaturated Esters by Bis(pincolato)diboron (Faculty of Engineering and Frontier Chemistry Center, Graduate School of Chemical Sciences and Engineering,

Hokkaido Univ.) DOI, Hana; SASAKI, Ikuo; HASHIMOTO, Ikuya;

KIKUCHI, Takao; ITO, Hajime; MIYAUURA, Norio; ISHIYAMA, Tatsuo

**3F5-46** Development of Iridium-Catalyzed Regioselective C-H Borylation of Conjugated Dienes (Faculty of Engineering and Frontier Chemistry Center, Graduate School of Chemical Sciences and Engineering, Hokkaido Univ.) OBA, Akihisa; SASAKI, Ikuo; ISHIYAMA, Tatsuo; ITO, Hajime

**3F5-47** Ir-Catalyzed Site-Selective C-H Borylation of Quinolines with Silica-Supported Monophosphine Ligands (Department of Chemistry, Faculty of Science, Hokkaido Univ.) KONISHI, Shota; KAWAMORITA, Soichiro; IWAI, Tomohiro; TAJUDDIN, Hazmi; HARRISSON, Peter; STEEL, Patrick G.; MARDER, Todd B.; SAWAMURA, Masaya

**3F5-48** Ir-Catalyzed Borylation of Unactivated C(sp<sup>3</sup>)-H Bonds with Silica-Supported Monophosphine Ligands (Department of Chemistry, Faculty of Science, Hokkaido Univ.) MURAKAMI, Ryo; KAWAMORITA, Soichiro; IWAI, Tomohiro; SAWAMURA, Masaya

Chair: IWAI, Tomohiro (17 : 10~18 : 20)

\* 17:00-17:10: interval for laptop PC connection.(3F5-50, 3F5-51, 3F5-52, 3F5-53, 3F5-54, 3F5-55, 3F5-56)

**3F5-50** Iridium-Catalyzed Regioselective C(sp<sup>3</sup>)-H Borylation of Tetraalkylsilanes (Kyoto Univ.) OHMURA, Toshimichi; TORIGOE, Takeru; SUGINOME, Michinori

**3F5-51** Iridium-Catalytic Asymmetric Hydrogenation of 4-substituted Pyrimidine (Kyushu Univ.) HASHIGUCHI, Yuta; KUWANO, Ryoichi

**3F5-52** Asymmetric Hydrogenation of Substituted Pyridinium Salts Catalyzed by Iridium(III) Complexes (Graduate School of Engineering Science, Osaka University) IIMURO, Atsuhiko; HIDA, Shoji; KITA, Yusuke; MASHIMA, Kazushi

**3F5-53** Ir-catalyzed Vinylation of Carbazole Derivatives with Vinylacetate (Faculty of Chemistry, Materials and Bioengineering, Kansai University) OGAWA, Shinji; OBORA, Yasushi

**3F5-54** Enantioselective Synthesis of Homoallylic Alcohols by Sequential Actions of Cationic Iridium Complex and a Chiral Phosphonic Acid on 1-Alkenylboronates and Aldehydes (Graduate School of Engineering, Kyoto University) NISHIDA, Yui; MIURA, Tomoya; MURAKAMI, Masahiro

**3F5-55** Iridium-Catalyzed [3 + 2] Annulation of Aryl-Substituted *N*-Sulfonyl Ketimines with 1,3-Dienes via C-H Activation (Graduate School of Science, Kyoto University) NISHIMURA, Takahiro; EBE, Yusuke; HAYASHI, Tamio

**3F5-56** Iridium-Catalyzed Asymmetric [3 + 2] Annulation of 3-Aryl-3-hydroxyisoindolin-1-ones with 1,3-dienes via C-H Activation (Graduate School of Science, Kyoto University) NISHIMURA, Takahiro; NAGAMOTO, Midori; HAYASHI, Tamio

## Monday, March 25, AM

Chair: MORIMOTO, Tsumoru (9 : 00 ~ 10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(4F5-01, 4F5-02, 4F5-03, 4F5-04, 4F5-05, 4F5-06)

**4F5-01** Iridium-Catalyzed Regioselective Addition of 1,3-Diketones to Simple Terminal Alkenes (Coll. Sci. Eng., Aoyama Gakuin Univ.) MIURA, Hiroki; SAGAWA, Jun; TAKEUCHI, Ryo

**4F5-02** Iridium-Catalyzed [2+2+2] Cycloaddition of Dienes with Cyanamides (Coll. Sci. Eng., Aoyama Gakuin Univ.) MIURA, Hiroki; ISHII, Satoshi; TAKEUCHI, Ryo

## Rh

**4F5-03** Rhodium-Catalyzed Addition of Terminal Alkynes to 3,3-Diarylcyclopropenes (Graduate School of Science, Kyoto University) NISHIMOTO, Shouta; SAWANO, Takahiro; NISHIMURA, Takahiro; HAYASHI, Tamio

**4F5-04** Rhodium-Catalyzed Asymmetric Arylation of Cyclic Ketimines (Graduate School of Science, Kyoto University) NISHIMURA, Takahiro; FUJIMOTO, Hiroto; EBE, Yusuke; HAYASHI, Tamio

**4F5-05** Synthesis of  $\alpha$ -Allyl- $\alpha$ -Aminoketone via Copper/Rhodium-Catalyzed Multi-functionalization of Terminal Alkynes (Graduate School of Engineering, Kyoto University) TANAKA, Takamasa; YADA, Akira; MIURA, Tomoya; MURAKAMI, Masahiro

**4F5-06** Stereoselective Synthesis of Amino-Substituted Silyl Enol Ethers by Rhodium-Catalyzed Reaction of *N*-Sulfonyl-1,2,3-triazoles with Silanols. (Faculty of Engineering, Kyoto University) NAKAMURO, Takayuki; HIRAGA, Kentaro; MIURA, Tomoya; MURAKAMI, Masahiro

Chair: OHMURA, Toshimichi (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(4F5-08, 4F5-09, 4F5-11, 4F5-12, 4F5-13)

**4F5-08** *E*-Selective Silylimination of Terminal Alkynes with Hydrosilanes and Isocyanides in the Presence of Rhodium Catalyst (Faculty of Engineering, Osaka University) FUKUMOTO, Yoshiya; SHIMIZU, Hiroto; CHATANI, Naoto

**4F5-09\*** Theoretical Studies on the Rhodium-Catalyzed Decyanative Borylation Reaction of Nitriles (Faculty of Engineering, Osaka University) TOBISU, Mamoru; KINUTA, Hirota; KITA, Yusuke; TAKAHASHI, Hiroaki; MORI, Seiji; CHATANI, Naoto

**4F5-11** Synthesis of *meta*-cyclophanes by ring expansion of *ortho*-alkylbenzo-



- cycloalkanones (Graduate School of Engineering Kyoto University) SAWANO, Shota; ISHIDA, Naoki; MURAKAMI, Masahiro
- 4F5-12** Restructuring of N-Arenesulfonylazetidins into Benzosultams via 1,5-Rhodium Shift (Graduate School of Engineering, Kyoto University) SHIMAMOTO, Yasuhiro; YANO, Takaaki; ISHIDA, Naoki; MURAKAMI, Masahiro
- 4F5-13** Stereoselective Synthesis of Cyclopentanols via Carbene Insertion into Cyclobutanols (Graduate School of Engineering, Kyoto University) FUJITA, Shoichiro; YADA, Akira; MURAKAMI, Masahiro

Chair: ISHIDA, Naoki (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(4F5-15, 4F5-16, 4F5-17, 4F5-18, 4F5-19, 4F5-20)
- 4F5-15** Synthesis of Dibenzofurans by Rh-Catalyzed Decarboxylative Cyclization of 2-Aryloxybenzoic Acids (Graduate School of Science, Osaka Prefecture University) MAETANI, Shinji; FUKUYAMA, Takahide; RYU, Ilhyong
- 4F5-16** Synthesis of Fluorenones by Rhodium Catalyzed Intramolecular Acylation of Biarylcarboxylic Acids (Graduate School of Science, Osaka Prefecture University) MAETANI, Shinji; MIYAGAWA, Kazusa; FUKUYAMA, Takahide; RYU, Ilhyong
- 4F5-17** Rh(I)/Pd(0)-Catalyzed Cyclocarbonylation Reactions of C-Nucleophile-Tethered Bromobenzenes Using Aldehydes as a Carbonyl Source (Nara Institute of Science and Technology) MORIMOTO, Tsumoru; TOMIIE, Ai; KAKIUCHI, Kiyomi
- 4F5-18** Rhodium(I)-Catalyzed Carbonylation Reactions of Allenynes with Formaldehyde (Nara Institute of Science and Technology) MORIMOTO, Tsumoru; OKA, Nagato; YOSHIDA, Yuka; KAKIUCHI, Kiyomi
- 4F5-19** Rh(I)-Catalyzed Carbonylative Arylation of Alkynes with Arylboronic Acids Using Formaldehyde as a Carbonyl Source (Nara Institute of Science and Technology) MORIMOTO, Tsumoru; WANG, Chuang; KAKIUCHI, Kiyomi; ARTOK, Levent
- 4F5-20** Synthesis of Fluorene Derivatives through Rhodium- and Iridium-Catalyzed Intramolecular Dehydrogenative Cyclization (Faculty of Engineering, Osaka University) ITOH, Masaki; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro

## Room F6

### FOREST HOUSE F306

## Organic Chemistry -Reaction and Synthesis- Metallo-organic Chemistry

Friday, March 22, AM

Pd

Chair: MINAMI, Yasunori (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(1F6-01, 1F6-02, 1F6-03, 1F6-04, 1F6-05, 1F6-06)
- 1F6-01** Homocoupling Reaction of Aryltrimethylsilanes Using Pd Catalyst and Copper Salt (Graduate School of Engineering and Environment Conservation Research Institute, Tohoku University) OMURA, Kento; FUNAKI, Kenji; SATO, Tetsuo; OI, Shuichi
- 1F6-02**  $\alpha$ -Arylation of  $\alpha, \beta$ -unsaturated esters with aryltrimethylsilanes using palladium catalyst and copper salt (Graduate School of Engineering and Environment Conservation Research Institute, Tohoku University) AKIYAMA, Youichi; SATO, Tetsuo; OI, Syuichi
- 1F6-03** Optimization of Reaction Condition of Palladium-Catalyzed Aryl-fluorination of Allenes (Graduate School of Engineering, Osaka University) WAKASA, Takashi; KUNYASU, Hitoshi; SANAGAWA, Atsushi; IWASAKI, Takanori; KAMBE, Nobuaki
- 1F6-04** Development of New SPRIX Ligands Having Efficient Asymmetric Environment (ISIR, Osaka University) LIN, Xianjin; TAKENAKA, Kazuhiro; TAKIZAWA, Shinobu; SASAI, Hiroaki
- 1F6-05** Enantioselective Pd(II)/Pd(IV) Catalysis Utilizing SPRIX Ligand: Effective Construction of Chiral Acetoxyated Tetrahydrofurans (ISIR, Osaka University) DHAGE, Yogesh; TAKENAKA, Kazuhiro; TAKIZAWA, Shinobu; SASAI, Hiroaki
- 1F6-06** Umpolung Reactivity of Pd Enolate: Cyclative Haloacetoxylation of Alkynyl Cyclohexadienones Catalyzed by Pd-SPRIX (ISIR, Osaka University) MOHANTA, Suman Chandra; TAKENAKA, Kazuhiro; TAKIZAWA, Shinobu; SASAI, Hiroaki

Chair: NISHIHARA, Yasushi (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(1F6-08, 1F6-09, 1F6-10, 1F6-11, 1F6-13)
- 1F6-08** Cyloisomerization of Acyclic 1,n-Dienes via Chain-Walking (Keio Univ.) HAMASAKI, Tarō; KAKIUCHI, Fumitoshi; KOCHI, Takuya
- 1F6-09** Palladium-Catalyzed Synthesis of Phospholes from Biphenylphosphine Derivatives via Carbon-Phosphorus Bond Cleavage (Faculty of

Engineering, Osaka University) TOBISU, Mamoru; BABA, Katsuaki; CHATANI, Naoto

- 1F6-10** Transition metal-catalyzed regioselective alkylation of indoles with alcohols as alkylating reagents (Faculty of Life and Medical Sciences, Doshisha Univ.) PUTRA, Anggi; TAKIGAWA, Kei; TANAKA, Hatsuki; ITO, Yoshihiko; OE, Yohei; OHTA, Tetsuo
- 1F6-11** C-H Activation by the cooperation between a palladium catalyst and an alkoxy group (Research and Development Initiative, Chuo University) MINAMI, Yasunori; SHIRAIISHI, Yuki; YAMADA, Kotomi; HIYAMA, Tamejiro
- 1F6-13** Palladium-Catalyzed Cycloaddition Reaction of Alkynyl Aryl Ethers with 1,2-Dienes and their Analogues (Graduate school of Science and Engineering, Chuo Univ.) KANDA, Mayuko; MINAMI, Yasunori; HIYAMA, Tamejiro

Chair: YAMASHITA, Makoto (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(1F6-15, 1F6-16, 1F6-17, 1F6-18, 1F6-20)
- 1F6-15** Palladium-Catalyzed Decarboxylative Cross-Coupling: Synthesis of Chalcone Derivatives (Faculty of Engineering, Osaka University) UNOH, Yuto; HIRANO, Koji; SATOH, Tetsuya; MIURA, Masahiro
- 1F6-16** Diboration of Alkynyl MIDA Boronates and Sequential Suzuki-Miyaura Cross-Coupling Reactions (Graduate School of Natural Science and Technology, Okayama University) HYODO, Keita; SUETSUGU, Masato; IWASAKI, Masayuki; NISHIHARA, Yasushi
- 1F6-17** Highly Selective Synthesis of Multi-substituted Olefins through Silaboration of Alkynylboronates and chemoselective Suzuki-Miyaura Couplings (Graduate School of Natural Science and Technology, Okayama University and Department of Chemistry, Aichi University of Education) JIAO, Jiao; IWASAKI, Masayuki; NAKAJIMA, Kiyohiko; NISHIHARA, Yasushi
- 1F6-18** Synthesis of diazaheterocyclic compounds by palladium-catalyzed decarboxylative transformation of 1,2,4-oxadiazol-5(4H)-ones (Department of Energy and Hydrocarbon Chemistry, Graduate School of Engineering, Kyoto University) OKAMOTO, Kazuhiro; OHE, Kouichi
- 1F6-20** Palladium-catalyzed decarboxylative condensation of isoxazol-5(4H)-ones with aldehydes (Kyoto University) OKAMOTO, Kazuhiro; SHIMBAYASHI, Takuya; OHE, Kouichi

Friday, March 22, PM

Chair: ITAMI, Kenichiro (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(1F6-28, 1F6-31, 1F6-32, 1F6-33)
- 1F6-28** Young Scholar Lectures of CSJ Catalytic Asymmetric Synthesis using Cationic Palladium Complexes (Graduate School of Science and Engineering, Tokyo Institute of Technology) Aikawa, Kohsuke
- 1F6-31** Design and Synthesis of Polystyrene-cross-linking Tripod Phosphines and Application to Transition Metal Catalyzed C-H and C-Cl Transformation Reactions (Department of Chemistry, Faculty of Science, Hokkaido Univ.) HARADA, Tomoya; IWAI, Tomohiro; SAWAMURA, Masaya
- 1F6-32** Pd-Catalyzed Cross-Coupling Reactions of Chloroarenes with Silica-Supported Tripod Phosphines (Department of Chemistry, Faculty of Science, Hokkaido Univ.) TANAKA, Ryotaro; HARADA, Tomoya; IWAI, Tomohiro; SAWAMURA, Masaya
- 1F6-33** Palladium-Catalyzed Arylation of Unsaturated Carbon-Carbon Bonds Using Sodium Sulfinates (Fukushima Medical Univ.) TANIGUCHI, Nobukazu

Chair: UENO, Satoshi (14 : 40~15 : 50)

- \* 14:30-14:40: interval for laptop PC connection.(1F6-35, 1F6-36, 1F6-37, 1F6-38, 1F6-39, 1F6-40, 1F6-41)
- 1F6-35** Efficient Synthesis of Picene Derivatives bearing the Thiophene Moieties (Graduate School of Natural Science and Technology, Okayama University) KINOSHITA, Megumi; NONOBE, Hikaru; LI, Jing; IWASAKI, Masayuki; NISHIHARA, Yasushi
- 1F6-36** Pd-Catalyzed and Copper-Mediated Cross-Coupling Reaction of Aryl- or Alkenylboronic Acids with Acid Chlorides (Graduate School of Natural Science and Technology, Okayama University) OGAWA, Daisuke; SUETSUGU, Masato; HYODO, Keita; LI, Jing; IWASAKI, Masayuki; NISHIHARA, Yasushi
- 1F6-37** Hindered Heterobiaryls by C-H Arylation: New Generation Catalyst (Grad Sch Sci, Nagoya Univ; WPI-ITbM, Nagoya Univ) KONDO, Hiroki; YAMAGUCHI, Kazuya; YAMAGUCHI, Junichiro; ITAMI, Kenichiro
- 1F6-38** Synthesis of Non-planar Polycyclic Aromatic Hydrocarbons via C-H Arylation (Grad Sch Sci, Nagoya Univ; WPI-ITbM, Nagoya Univ) FUJIKAWA, Takao; KAWASUMI, Katsuaki; MOCHIDA, Kenji; SEGAWA, Yasutomo; ITAMI, Kenichiro
- 1F6-39** Direct Indole-to-Carbazole  $\pi$ -Extension through Palladium Catalysis (Grad Sch Sci, Nagoya Univ; WPI-ITbM, Nagoya Univ) OZAKI, Kyohei; ZHANG, Hua; ITO, Hideto; LEI, Aiwen; ITAMI, Kenichiro
- 1F6-40** Pd-catalyzed Regioselective and Stereospecific Suzuki-Miyaura Coupling Reaction of Aziridines (Graduate School of Engineering, Osaka University) TAKEDA, Youhei; IKEDA, Yuki; MINAKATA, Satoshi
- 1F6-41** Preparation of reusable Pd-nanoparticle catalyst with retained high

activity prepared from hydridosilica monolith (Nara National College of Technology; Kyoto University) MATSUSHIMA, Ayumi; ICHII, Shun; MOITRA, Nirmalya; KANAMORI, Kazuyoshi; KAMEI, Toshiyuki; NAKANISHI, Kazuki; SHIMADA, Toyoshi

Chair: TAKAYA, Jun (16 : 00~17 : 10)

- \* 15:50-16:00: interval for laptop PC connection.(1F6-43, 1F6-44, 1F6-45, 1F6-47, 1F6-48, 1F6-49)
- 1F6-43** Efficient synthesis of tertiary phosphine derivatives via Pd-catalyzed P-C cross coupling reaction of  $\alpha$ -oxymethylphosphine-borane complexes (Ehime University) KIKUCHI, Hiroki; TANAKA, Ipeei; WATANABE, Yutaka; OHTA, Hidetoshi; HAYASHI, Minoru
- 1F6-44** Pd-catalyzed P-C cross-coupling reaction of aryl bromides and triflates (Ehime University) TANAKA, Ipeei; WATANABE, Yutaka; OHTA, Hidetoshi; HAYASHI, Minoru
- 1F6-45\*** Catalytic Asymmetric Synthesis of Silicon-Stereogenic Bridged Biaryls (Kyoto Univ.) SHINTANI, Ryo; MACIVER, Eleanor E.; TAMAKUNI, Fumiko; OTOMO, Haruka; OTA, Kensuke; HAYASHI, Tamio
- 1F6-47** Palladium-Catalyzed Regio- and Stereoselective Addition of Heteroaryl Sulfides to Terminal Alkynes (Graduate School of Natural Science and Technology, Okayama University) HU, Hao; NISHIMURA, Yugo; IWASAKI, Masayuki; NISHIHARA, Yasushi
- 1F6-48** Palladium-Catalyzed Double Dehydrogenation of Saturated Ketones (Kyushu Univ.) YASUOKA, Shohei; KUWANO, Ryoichi; UENO, Satoshi
- 1F6-49** Dimerization of Palladium Carbenes Generated from  $\alpha$ -Silyl- $\sigma$ -allylpalladium Complexes (Univ. of Toyama) KOSHIBA, Ryoma; TAKAHASHI, Yu; HORINO, Yoshikazu; ABE, Hitoshi

Chair: SHINTANI, Ryo (17 : 20~18 : 30)

- \* 17:10-17:20: interval for laptop PC connection.(1F6-51, 1F6-52, 1F6-53, 1F6-54, 1F6-55, 1F6-56, 1F6-57)
- 1F6-51** Synthesis of primary allylic alcohols from terminal alkenes by palladium catalyzed allylic oxidation (Kyushu University) TOMITA, Ren; ISHIDA, Tamao; HAMASAKI, Akiyuki; TOKUNAGA, Makoto
- 1F6-52** Nucleophilic Enantioselective Allylation of Ketimines Catalyzed by Palladium(II) Pincer Complexes with Chiral Bis(imidazoline) Ligands (Nagoya Institute of Technology) NAKAMURA, Masayuki; HYODO, Kengo; NAKAMURA, Shuichi
- 1F6-53** Pd-Catalyzed  $\alpha$ -Arylation of Phenylacetic acid with Aryl Halides (Kobe university) TANAKA, Daiki; TANAKA, Shota; SUGIE, Atsushi; MORI, Atsunori
- 1F6-54** Palladium-Catalyzed Asymmetric Allylic Alkylation of Indoles Using C-N Axially Chiral Indole Ligand. (Chiba Univ.) MINO, Takashi; ISHIKAWA, Miho; NISHIKAWA, Kenji; SAKAMOTO, Masami
- 1F6-55** Unsymmetric NHC-Pd catalyzed addition of arylboronic acids to carbonyl compounds (SCRI) YAMAMOTO, Tetsuya; FURUSAWA, Takuma; OE, Yohei; YAMAKAWA, Tetsu; OHTA, Tetsuo
- 1F6-56**  $\text{P}(\text{SiPr})_2$ -Pincer Palladium-Catalyzed Dehydrogenative Borylation of 1,3-Dienes (Tokyo Tech) IGUCHI, Shoichi; KIRAI, Naohiro; ITO, Tatsuyoshi; TAKAYA, Jun; IWASAWA, Nobuharu
- 1F6-57** Palladium-Catalyzed Allylic Alkylation with Ketone Enolates (Department of Bioengineering; Tokyo Institute of Technology) KINOCHI, Wataru; KOBAYASHI, Yuichi

## Saturday, March 23, AM

Chair: IWASAKI, Masayuki (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2F6-01, 2F6-02, 2F6-03, 2F6-04, 2F6-05, 2F6-06)
- 2F6-01** Asymmetric heteroarylation by chiral cationic Pd catalysts and its application to tandem reaction. (Graduate School of Science and Engineering, Tokyo Institute of Technology) ASAI, Yuya; HIOKI, Yuta; AIKAWA, Kohsuke; MIKAMI, Koichi
- 2F6-02** Intramolecular Aminocyanation of Alkenes (Graduate School of Engineering, Kyoto University) MIYAZAKI, Yosuke; NAKAO, Yoshiaki
- 2F6-03** Synthesis of Ketones by Carbonylative Coupling of Alkyl Iodides and Aryl Boronic Acids (Graduate School of Science, Osaka Prefecture University) SUMINO, Shuhei; UI, Takahito; RYU, Ilhyong
- 2F6-04** Synthesis of Planar Chiral Phosphine Ligand Utilizing Asymmetric Ortho-lithiation and Applicatin for Asymmetric Coupling with Palladium Catalyst (Waseda Univ.) HAMANAKA, Risa; KANDA, Kazumasa; SHIBATA, Takanori
- 2F6-05** Asymmetric Sonogashira Coupling for High Enantioselective Synthesis of Planar-Chiral Paracyclophanes (Waseda Univ.; Waseda Institute for Advanced Study) OSHIMA, Shoya; HAMANAKA, Risa; KANDA, Kazumasa; SHIBATA, Takanori
- 2F6-06** Synthesis of Phosphine-Sulfonate Ligands Bearing Biaryl Backbone and Their Application to Catalytic Reactions (The University of Tokyo, Graduate School of Engineering) GOTO, Hiroki; ITO, Shingo; NOZAKI, Kyoko

Chair: ITO, Shingo (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(2F6-08, 2F6-09, 2F6-10, 2F6-11, 2F6-12, 2F6-13)
- 2F6-08** Pd-catalyzed Silylative Ring-opening Reaction of Vinylcyclopropanes

with Hexamethyldisilane (Saitama Univ.) KIKUCHI, Hiromasa; KINOSHITA, Hidenori; MIURA, Katsukiyo

- 2F6-09** Synthesis of Oligo(naphthalene-2,3-diyl)s via Iterative Suzuki-Miyaura Coupling of Boron-Masked 3-Iodo-2-naphthylboronic Acids (Kyoto Univ.) ISHIBASHI, Aoi; KOYANAGI, Masashi; EICHENAUER, Nils; IHARA, Hideki; YAMAMOTO, Takeshi; SUGINOME, Michinori
- 2F6-10\*** Palladium-Catalyzed Three-Component Coupling using Arynes, Iso-cyanides, and Cyanoformates (Graduate School of Natural Science and Technology, Okayama University and Department of Chemistry, Aichi University of Education) LI, Jing; NOYORI, Shintaro; IWASAKI, Masayuki; NAKAJIMA, Kiyohiko; NISHIHARA, Yasushi
- 2F6-11** Pd-catalyzed Direct C-H Arylation of 5-Position of Isoxazole Ring (ISIR, Osaka University) SHIGENOBU, Masashi; TAKENAKA, Kazuhiro; SASAI, Hiroaki
- 2F6-12** Palladium-Catalyzed endo-Selective Cyclization Reaction of  $\omega$ -Hydroxy Nnamides with Aryl Halides (Graduate School of Science, Kyoto University) FUJINO, Daishi; YORIMITSU, Hideki; OSUKA, Atsuhiko
- 2F6-13**  $\text{P}(\text{SiPr})_2$ -Pincer Palladium Catalyzed 1,2-Dialumination of Alkynes (Tokyo Institute of Technology) ANDO, Yuichiro; TAKAYA, Jun; IWASAWA, Nobuharu

Chair: TAKENAKA, Kazuhiro (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(2F6-15, 2F6-16, 2F6-17, 2F6-18, 2F6-20)
- 2F6-15** Pd-catalyzed Asymmetric Ring-Opening C-C Bond Formation of meso-1,4-Epoxydihydronaphthalenes with Organoboron Acids Using Chiral Helical Polymer Ligand PQXphos (Kyoto Univ.) AKAI, Yuto; YAMAMOTO, Takeshi; SUGINOME, Michinori
- 2F6-16** Palladium-catalyzed reduction of carboxylic acids to aldehydes employing hydrosilanes and pivalic anhydride (Graduate School of Engineering, Kyoto University) CONG, Cong; FUJIHARA, Tetsuaki; TERAO, Jun; TSUJI, Yasushi
- 2F6-17** Palladium-catalyzed hydroacylation of allenes employing acid anhydrides and hydrosilanes (Graduate School of Engineering, Kyoto University) HOSOMI, Takuro; TATSUMI, Kenta; CONG, Cong; FUJIHARA, Tetsuaki; TERAO, Jun; TSUJI, Yasushi
- 2F6-18\*** Pd(0)-Catalyzed Coupling Reaction of Fluoroolefins with Organoboronates via Key Reaction Intermediates Generated by C-F Bond Activation (Faculty of Engineering, Osaka University) SAIJO, Hiroki; OHASHI, Masato; OGOSHI, Sensuke
- 2F6-20** Coupling Reaction of Tetrafluoroethylene with Organosilanes in the Presence of Palladium Catalyst (Faculty of Engineering, Osaka University) SAKAGUCHI, Hironobu; SAIJO, Hiroki; OHASHI, Masato; OGOSHI, Sensuke

## Saturday, March 23, PM

Chair: OGOSHI, Sensuke (13 : 30~14 : 40)

- \* 13:20-13:30: interval for laptop PC connection.(2F6-28, 2F6-29, 2F6-30, 2F6-31, 2F6-32, 2F6-34)
- 2F6-28** Synthesis of multiple substituted benzothiophene by palladium-catalyzed arylation cyclization of 2-ethynylthioanisole (Fac. Eng., Gifu Univ.) YAMAUCHI, Takayuki; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 2F6-29** Palladium porphyrin catalyzed hydrogenation. (Kyoto University; Graduate School of Engineering) NISHIBAYASHI, Ryo; KURAHASHI, Takuya; MATSUBARA, Seijiro
- 2F6-30** Stereospecific Suzuki-Miyaura Coupling of Optically Active  $\alpha$ -(Acylamino)alkylboronic Esters (Kyoto Univ.) OHMURA, Toshimichi; MIWA, Kyoko; SUGINOME, Michinori
- 2F6-31** Palladium-Catalyzed Silylation of Aryl Chlorides with Disilanes (Department of Chemistry, Graduate School of Science, Kyoto University) YAMAMOTO, Yutaro; MURAKAMI, Kei; YORIMITSU, Hideki; OSUKA, Atsuhiko
- 2F6-32\*** Surface modification of arylhalide moiety of bipedal-thiol adsorbed onto gold nanoparticle by palladium-mediated coupling reaction (Kobe Univ.) TANG, Lili; SUGIE, Atsushi; YAMAUCHI, Hiroki; MORI, Atsunori; KANIE, Kiyoshi; MURAMATSU, Atsushi
- 2F6-34** C-H arylation reaction of thiophene derivatives with arylhalide moiety of bipedal-thiol adsorbed onto gold nanoparticle (Kobe Univ.) MIYAMURA, Kei; SUGIE, Atsushi; KUMAZAWA, Kenta; TANAKA, Shota; MORI, Atsunori; KANIE, Kiyoshi; MURAMATSU, Atsushi

Chair: YAMAMOTO, Takeshi (14 : 50~16 : 00)

- \* 14:40-14:50: interval for laptop PC connection.(2F6-36, 2F6-37, 2F6-38, 2F6-39, 2F6-40, 2F6-41, 2F6-42)
- 2F6-36** Pd-Catalyzed Dehydrogenative Cross-Coupling Reaction between Benzothiophenes and Simple Arenes (Graduate School of Engineering and Environment Conservation Research Institute, Tohoku University) FUNAKI, Kenji; SATO, Tomo; SATO, Tetsuo; OI, Shuichi
- 2F6-37** Palladium-catalyzed cross-coupling reactions of bulky aryl halides with diaryl amines (Graduate School of Science, Kyoto University) SUZUKI, Yuko; MURAKAMI, Kei; YORIMITSU, Hideki; OSUKA, Atsuhiko
- 2F6-38** Synthesis of Azahelicene N-Oxide by Palladium Catalyzed Direct C-H

- Annulation of Pendant Z-Bromovinyl Side Chain (Osaka Prefecture Univ.) MATSUMOTO, Yuki; KAMIKAWA, Ken
- 2F6-39<sup>#</sup>** Catalytic enantioselective synthesis of spiro[4.4]nonanes and their applications to organocatalysis (ISIR, Osaka Univ.) FAN, Lulu; TAKIZAWA, Shinobu; SASAI, Hiroaki
- 2F6-40** Regioselective Synthesis of Polysubstituted Benzenes by Pd-Catalyzed Reaction of 1-Iodo-1-silylalkenes with Terminal Alkynes (Saitama Univ.) TAKAHASHI, Hiroto; KINOSHITA, Hidenori; MIURA, Katsukiyo
- 2F6-41** Intramolecular Metathesis Between Carbon-Carbon and Carbon-Silicon  $\sigma$ -Bonds Catalyzed by Palladium (Kyoto University, Graduate School of Engineering) ISHIDA, Naoki; IKEMOTO, Wataru; MURAKAMI, Masahiro
- 2F6-42** Development of C2-selective direct oxidative alkylation of 4-bromoimidazole derivatives. (Gifu University) TANAKA, Yasuhiro; SHIBAHARA, Fumitoshi; MURAI, Toshiaki

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Chair: FUJIHARA, Tetsuaki (16 : 10~17 : 30)

- \* 16:00-16:10: interval for laptop PC connection.(2F6-44, 2F6-46, 2F6-47, 2F6-48, 2F6-50, 2F6-51)
- 2F6-44\*** Cobalt-Salen Complex Catalyzed Oxidative Deformylation of Aldehydes for the Preparation of Hydroperoxide Derivatives (Tokyo Institute of Technology) WATANABE, Eiichi; KUSAMA, Hiroyuki; IWASAWA, Nobuharu
- 2F6-46** Hydration of Terminal Alkynes Catalyzed by Water-Soluble Cobalt (III) Porphyrin Complexes (Department of Chemistry and Research Center for Materials Science, Nagoya University) NISHIMURA, Takuho; TACHINAMI, Tadashi; USHIMARU, Richiro; NOYORI, Ryoji; NAKA, Hiroshi
- 2F6-47** Catalytic Activation of Terminal Alkynes by Cobalt(III) Porphyrin Complexes (Department of Chemistry and Research Center for Materials Science, Nagoya University) USHIMARU, Richiro; NOYORI, Ryoji; NAKA, Hiroshi
- 2F6-48\*** Cationic Cobalt(III)-catalyzed Directed Arene C-H Bond Addition to Polar Electrophiles (Graduate School of Pharmaceutical Sciences, The University of Tokyo) YOSHINO, Tatsuhiko; IKEMOTO, Hideya; MATSUNAGA, Shigeki; KANAI, Motomu
- 2F6-50** Cobalt-Catalyzed [2+2] Cycloaddition of Alkenes with 1,3-Enynes (Faculty of Engineering, Osaka University) NISHIMURA, Akira; OHASHI, Masato; OGOSHI, Sensuke
- 2F6-51** Cobalt-Catalyzed Tandem Cycloaddition Reaction of 1,6-heptadiynes with Arylboronic Acids (Faculty of Science, Osaka Prefecture University) SUYAMA, Yuki; UEDA, Mitsuhiro; RYU, Ilhyong

## Asian International Symposium - Organic Chemistry / Green Sustainable Chemistry -

Sunday, March 24, PM

(12 : 50~13 : 00)

- 3F6-24<sup>#</sup>** Opening (Okayama Univ.) Kazuhiko Takai (12:50~13:00)

Chair: Masaya Sawamura (13 : 00~14 : 40)

- 3F6-25<sup>#</sup> Keynote Lecture** Gold-Catalyzed Cyclizations and Cycloadditions: Selectivity Control (East China Normal Univ., China) Feng Liu; Deyun Qian; Wenbo Li; Junliang Zhang (13:00~13:30)
- 3F6-28<sup>#</sup> Invited Lecture** Transition Metal-Catalyzed Tandem Cyclization Reactions for Preparation of Polycyclic Indole Derivatives (Tokyo Institute of Technology) Hiroyuki Kusama (13:30~13:50)
- 3F6-30<sup>#</sup> Keynote Lecture** Learning the Art of Transition Metal Catalyzed C-H Bond Aminations for Practical Organic Synthesis (Nanyang Technological Univ., Singapore) Philip Wai Hong Chan (13:50~14:20)
- 3F6-33<sup>#</sup> Invited Lecture** Catalytic Skeletal Rearrangement of O-Propargylic Oximes (Tohoku Univ.) Itaru Nakamura (14:20~14:40)

Chair: Yasuhiro Uozumi (14 : 50~16 : 10)

- \* 14:40-14:50: interval for laptop PC connection.(3F6-36, 3F6-39, 3F6-41)
- 3F6-36<sup>#</sup> Keynote Lecture** Cyclopolymerization of Alkynes via Olefin Metathesis (Seoul National Univ., Korea) Tae-Lim Choi (14:50~15:20)
- 3F6-39<sup>#</sup> Invited Lecture** Mechanistic Study of Hafnium Complexes-Catalyzed Dehydrogenative Cyclization Reaction of 2,6-Lutidine and Internal Alkynes (Osaka Univ.) Hayato Tsurugi; Koji Yamamoto; Ai Kondo; Kazushi Mashima (15:20~15:40)
- 3F6-41<sup>#</sup> Keynote Lecture** The Odyssey of the N-Heterocyclic Carbene in Promoting C-H Functionalization (Academia Sinica, Taiwan) Tiow-Gan, Ong; Wei-Chun, Shih; Wen-Ching, Chen; Ying-Cheih, Lai; Ming-Shiuan, Yu (15:40~16:10)

Chair: Yasushi Morita (16 : 20~17 : 30)

- \* 16:10-16:20: interval for laptop PC connection.(3F6-45, 3F6-47, 3F6-49)
- 3F6-45<sup>#</sup> Invited Lecture** Development of Functional  $\pi$ -conjugated Systems towards Electronic Application (Osaka Univ.) Yutaka Ie (16:20~16:40)
- 3F6-47<sup>#</sup> Invited Lecture** Syntheses and Properties of Organic High-spin

Molecular Systems Based on Nitronyl Nitroxide Radical (Osaka City Univ.) Shuichi Suzuki (16:40~17:00)

- 3F6-49<sup>#</sup> Keynote Lecture** Open-shell Polycyclic Hydrocarbons (National Singapore Univ., Singapore) Jishan Wu (17:00~17:30)

(17 : 30~17 : 40)

- 3F6-52<sup>#</sup>** Closing Remarks (Osaka Univ.) Naoto Chatani (17:30~17:40)

**Room G1**  
PRISM HOUSE P107

## Analytical Chemistry

Friday, March 22, AM

Chair: MAEDA, Kohji (10 : 00~10 : 50)

- \* 9:50-10:00: interval for laptop PC connection.(1G1-07, 1G1-08, 1G1-09, 1G1-10)
- 1G1-07<sup>#</sup>** Development of Silica Modified Chemically with Schiff Base for Determination of Heavy Metal Ions in Environmental Water (Faculty of Systems Engineering, Wakayama University) DOUANGPHILA, Phouthavanh; YAJIMA, Setsuko; KIMURA, Keiichi
- 1G1-08** Mass analysis of halogenated polycyclic aromatic hydrocarbons by using 266nm laser ionization (Chem. Res. Lab., Tokyo Tech) HORIE, Satoko; MISAWA, Kentaro; IMAJO, Takashi; FUJII, Masaaki
- 1G1-09** Structural analysis of chlorophyll f in a cyanobacterium strain KCl (Division of Materials Science, Faculty of Pure and Applied, Univ. of Tsukuba) KOMATSU, Hirohisa
- 1G1-10\*** Microscopic Measurements of Lateral Diffusion Coefficients of Rhodamine B at Liquid/Liquid Interfaces by Total Internal Reflection-Fluorescence Recovery after Photobleaching (Osaka Univ.) SHINOMORI, Naoki; TSUKAHARA, Satoshi

Chair: TSUKAHARA, Satoshi (11 : 00~12 : 00)

- \* 10:50-11:00: interval for laptop PC connection.(1G1-13, 1G1-14, 1G1-16, 1G1-17, 1G1-18)
- 1G1-13** Study of autoinhibition in ion transfer across the interface between water and ionic liquid by using spectroscopic ellipsometry (Kyoto Univ. Graduate School of Engineering) YAMAUCHI, Takanori; NISHI, Naoya; SAKKA, Tetsuo
- 1G1-14\*** Propagation and Synchronization of Potential Oscillations in Multiple Liquid Membrane Systems (Kyoto Institute of Technology) TATSUNO, Yoshihide; KOZURU, Takumi; YOSHIDA, Yumi; MAEDA, Kohji
- 1G1-16** Study of tube radial distribution phenomenon (TRDP) and its application; TRDP creation based on aqueous two-phase micellar systems and application to separation (Graduate school of Science and Engineering, Doshisha University; TRDP Research Center) UNESAKI, Katsuya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 1G1-17** Study of tube radial distribution phenomenon (TRDP) and its application; TRDP creation based on fluororous-organic solvent two phase systems and application to separation. (Faculty of science and Engineering, Doshisha University) KITAGUCHI, Koichi; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 1G1-18** Study of tube radial distribution phenomenon (TRDP) and its application; influence of the physical properties of organic solvents on TRDP (Graduate school of Science and Engineering, Doshisha University; TRDP Research Center) FUJINAGA, Satoshi; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko

Friday, March 22, PM

Chair: KUBONO, Koji (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(1G1-28, 1G1-29, 1G1-30, 1G1-32, 1G1-33)
- 1G1-28** CFD study of wide-bore hydrodynamic chromatography and its application to bioanalysis. (Faculty of Science and Engineering, Doshisha University) MORIMOTO, Chika; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 1G1-29** Study of tube radial distribution phenomenon (TRDP) and its application; effect of surfactants on tube radial distribution chromatography (TRDC) (Faculty of Science and Engineering, Doshisha University; TRDP Research Center) HANAMURA, Naoya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 1G1-30\*** Analysis of molecular recognition on bundled surfaces of single-walled carbon nanotubes (Univ. of Kyushu; Department of Applied Chemistry) YOO, Jongtae; FUJIGAYA, Tsuyohiko; NAKASHIMA, Naotoshi
- 1G1-32** Development of selective separation and recovery system for precious metals with a pH stimuli-responsive polymer using ternary homogeneous liquid-liquid extraction (HoLLE) (Ibaraki University) SAITO, Shotaro; IGARASHI, Shukuro; TAKEMORI, Toshifumi; YOSHIDA, Norihiro; YAMAGUCHI, Hitoshi

**1G1-33** Conformational Change of Receptor Molecules Consisted of a Disulfide Bonding between Two Thioureylene Groups Accompanied by the Complex Formation with Anion (Kyushu Univ.) TOMITA, Kentaro; ISHIOKA, Toshio; HARATA, Akira

Chair: NAKAHARA, Yoshio (14 : 40~15 : 40)

\* 14:30-14:40: interval for laptop PC connection.(1G1-35, 1G1-36, 1G1-38, 1G1-39, 1G1-40)

**1G1-35** Development of Fluorescence Sensor for Phosphate through Cu(II) complex with Carbazoylaminiophenol (Osaka Kyoiku University) KUSUMOTO, Nao; KUBONO, Koji; TANI, Keita; YOKOI, Kunihiko

**1G1-36\*** Lanthanide (Tm, Yb & Lu) ions transport to specific oxygen donor ligand modified mesoporous HyLBA and their sorption mechanism (JAEA) AWUAL, Md.Rabiul; KOBAYASHI, Tohru; MIYAZAKI, Yuji; MOTOKAWA, Ryuhwi; SHIWAKU, Hideaki; SUZUKI, Shinichi; OKAMOTO, Yoshihiro; YAITA, Tsuyoshi

**1G1-38** Development of novel fluorescent sensors with the controllable mode of fluorescent change (Instit. Biomat. Bioeng., Tokyo Med. Dent. Univ.) SHIRAIISHI, Takuya; NAKA, Akihito; HIRANO, Tomoya; KAGECHIKA, Hiroyuki

**1G1-39** Anion Sensing by Hydrogen Bonding Leading to Near-Infrared Absorption Switching of Diradical Complexes: The Effect of Metal, Substituents, and Ligating Atoms (Tohoku Univ.) WADA, Shotaro; MASUYA, Atsuko; IKI, Nobuhiko; HOSHINO, Hitoshi

**1G1-40** Determination of Cd(II) by Self-assembly of a Luminescent Cd(II)-Tb(III)-Thiacalix[4]arene Ternary Complex and Application to Real Samples (TOHOKU Univ. Environment) ABE, Norioki; IKI, Nobuhiko; HOSHINO, Hitoshi

Chair: HAYASHITA, Takashi (15 : 50~16 : 50)

\* 15:40-15:50: interval for laptop PC connection.(1G1-42, 1G1-43, 1G1-44, 1G1-45, 1G1-46, 1G1-47)

**1G1-42** Temperature-Swing Solid-Phase Extraction of Cesium Ion Using Poly (N-isopropylacrylamide) Hydrogel Containing Carboxyl Groups as Ion-Exchange Group (Faculty of Systems Engineering, Wakayama University) HORIGUCHI, Syo; NAKAHARA, Yoshio; KIMURA, Keiichi

**1G1-43** Homogeneous Liquid-Liquid Extraction of Metal Ions Using Hydrophobization Reaction of Pyridinium-Type Ionic Liquids (Faculty of Systems Engineering, Wakayama University) OTSUKA, Koji; OSAKI, Shusuke; YAJIMA, Setsuko; KIMURA, Keiichi

**1G1-44** Chiral Recognition of Cysteine Immobilized on Gold Substrate by AFM Tip Modified Chemically with Optically Active Crown Ethers (Faculty of Systems Engineering, Wakayama University) MITANI, Hitoki; NAKAHARA, Yoshio; KADO, Shinpei; KIMURA, Keiichi

**1G1-45** Study of tube radial distribution phenomenon (TRDP) and its application; the effects of pH and salt concentration on radial distribution chromatography (TRDC) (Graduate School of Science and Engineering of Doshisha University, TRDC Research Center) KAN, Hyo; HASIMOTO, Masahiko; KTUKAGOSI, Kazuhiko

**1G1-46** Study of tube radial distribution phenomenon (TRDP) and its application; TRDP creation based on ionic liquids aqueous two-phase systems and application to separation (Graduate school of science and engineering, Doshisha University; TRDP Research Center) KAWAI, Yuki; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko

**1G1-47** Switching hydrophilic and hydrophobic using temperature responsive polymers and control permeability characteristic of the solution (Tokyo Metropolitan University) HIDA, Mitsuaki; UTSIDA, Yuu; ZENG, Hulie; NAKAJIMA, Hizuru; UCHIYAMA, Katsumi

Chair: UCHIYAMA, Katsumi (17 : 00~17 : 50)

\* 16:50-17:00: interval for laptop PC connection.(1G1-49, 1G1-50, 1G1-51, 1G1-52, 1G1-53)

**1G1-49** Development of ditopic type probe / cyclodextrin complex sensor possessing ion recognition function (Faculty of Science and Technology, Sophia University) NONAKA, Kentaro; YASUI, Masashi; YAMAGUCHI, Mai; HASHIMOTO, Takeshi; HAYASHITA, Takashi

**1G1-50** Design and Ion Recognition Function of Dipicolylamine Fluorescent Probe (Faculty of Science and Technology, Sophia University) KOBAYASHI, Hiroyuki; KATANO, Kohei; HASHIMOTO, Takeshi; HAYASHITA, Takashi

**1G1-51** High Kinetic Stability and <sup>1</sup>H Relaxivity of Trigadolium(III)-Thiacalixarene Complex (TOHOKU Univ.; Harvard Medical School) NAKAMURA, Mami; IKI, Nobuhiko; ESZTER, Boros; PETER, Caravan

**1G1-52** Design of Separation Material for Saccharide using Phenylboronic Acid Azoprobe (Faculty of Science and Technology, Sophia University) YAMADA, Taiji; YAMAZAKI, Masafumi; HASHIMOTO, Takeshi; HAYASHITA, Takashi

**1G1-53** Development of Interface Molecular Imprinting Chromogenic Sensor Possessing Sugar Recognition Function (Faculty of Science and Technology, Sophia University) KOSHINO, Anna; HATTORI, Yuka; HASHIMOTO, Takeshi; HAYASHITA, Takashi

## Saturday, March 23, AM

Chair: SATO, Shinobu (9 : 10 ~10 : 10)

\* 9:00-9:10: interval for laptop PC connection.(2G1-02, 2G1-03, 2G1-04, 2G1-05, 2G1-06)

**2G1-02** Sucrose measurement utilizing SPR sensor based on hetero-core fiber optic (Soka Univ.) SEKI, Atsushi; NARITA, Kouhei; WATANABE, Kazuhiro

**2G1-03** Optical Sensing of Carbohydrate-Protein Interactions Using Glyco-protein-conjugated Gold Nanoparticles (Kochi University) KIYOOKA, Chihiro; HADANO, Shingo; WATANABE, Shigeru

**2G1-04** Detection of Lectin by a Fiber-optic Biosensor Based on Localized Surface Plasmon Resonance (Kochi University) NAKASHIMA, Yukinori; HADANO, Shingo; WATANABE, Shigeru

**2G1-05** Fabrication of two-dimensional high-ordered array substrate of gold nanoparticle under laser irradiation and evaluation of its analytical performance as an optical sensor (Tokyo Metropolitan University, Chemistry) YASUMURO, Shunsuke; FUJITA, Takashi; SHIBAMOTO, Kohei

**2G1-06\*** Chemical sensing photonic crystal (1): novel sensing concept and its application for ion sensing using plasticized polyvinyl chloride-based photonic crystal (Osaka Pref. Univ.) ENDO, Tatsuro; AKI, Shoma; HISAMOTO, Hideaki

Chair: NAGAI, Hidekazu (10 : 20~11 : 20)

\* 10:10-10:20: interval for laptop PC connection.(2G1-09, 2G1-10, 2G1-11, 2G1-13)

**2G1-09** Potentiometric Detection of Enantiomers Using Chiral Mesoporous Silica Modified Chemically with Crown Ether Derivative (Faculty of Systems Engineering, Wakayama University) NAKAGAWA, Yusuke; YAJIMA, Setsuko; KIMURA, Keiichi

**2G1-10** Examination of aromatic components and physiological activities of cooked standard rice steam by year (Dep., Biotech.&Chem., Fac., Eng., Kinki Univ., Japan) MURAKAMI, Yuki; FUJITA, Akiko; KAWAKAMI, Koji; TACHIBANA, Shinya; OKADA, Yoshiharu; NOMURA, Masato

**2G1-11\*** Effective preparation of alkaline adducted metal oxide nanoparticles and their application for SALDI-MS (Faculty of Engineering, Hokkaido Univ.) YONEZAWA, Tetsu; HASEGAWA, Chihiro

**2G1-13\*** Coordination compounds formed from organic multi-dentate ligands and metals observed by cold-spray ionization mass spectrometry (Tokushima Bunri University) OHARA, Kazuaki; TOMINAGA, Masahide; AZUMAYA, Isao; YAMAGUCHI, Kentaro

Chair: YONEZAWA, Tetsu (11 : 30~12 : 00)

\* 11:20-11:30: interval for laptop PC connection.(2G1-16, 2G1-18)

**2G1-16\*** Development of Software for Fungal Species Identification Based on Multivariate Statistical Analysis of IMS and GC/MS Data: Fungal Odor Detection Techniques in Early Growth Stages (Nara Women's Univ. ; DYNACOM Co., Ltd. ; Toho Univ. ; Nagoya Univ.) TAKEUCHI, Takae; ICHII, Shoko; TSURI, Sayaka; KIMURA, Tomoko; YAMASHITA, Asuka; NAKAMURA, Yoshitaka; SUGAI, Toshiki; AKASHI, Tomohiro

**2G1-18** High sensitivity detection of Strontium by laser ionization mass spectroscopy (Research Institute of Instrumentation Frontier, AIST) NAGAI, Hidekazu; SAITO, Naoaki

## Saturday, March 23, PM

Chair: YOSHIMURA, Hideaki (13 : 10~14 : 10)

\* 13:00-13:10: interval for laptop PC connection.(2G1-26, 2G1-28, 2G1-29, 2G1-30, 2G1-31)

**2G1-26\*** Tunnel-current based Identification of Micro RNA by using nano-gap electrode (ISIR, Osaka Univ.) OHSHIRO, Takahito; TANIGUCHI, Masateru; KAWAI, Tomoji

**2G1-28** Discrimination of single-nucleotide variations based on the single-base extension in conjunction with functionalized microspheres (Faculty of Science and Engineering, Doshisha University) FUJISHIMA, Kohei; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko

**2G1-29** Detection of DNA point mutation through allele-specific cleavage of DNA/RNA chimeric probe by RNase H (Faculty of Science and Engineering, Doshisha University) YUASA, Ayae; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko

**2G1-30** Fundamental study of G4 oligonucleotide-immobilized electrode aiming at electrochemical sodium ion detection (Kyushu Inst. Tech.) LIU, Yinyin; SATO, Shinobu; TAKENAKA, Shigeori

**2G1-31** Design of molecular beacon probe for detecting DNA point mutations (Faculty of Science and Engineering, Doshisha University) WATANABE, Syo; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko

Chair: UENO, Yuko (14 : 20~15 : 20)

\* 14:10-14:20: interval for laptop PC connection.(2G1-33, 2G1-34, 2G1-36, 2G1-37)

**2G1-33** Detection of single-point mutations through stem-loop structure formation of DNA strand derived from the ligase detection reaction (Faculty of Science and Engineering, Doshisha University) YAMAMOTO, Shunsuke; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko

- 2G1-34\*** Visualization of Telomeric Repeat-Containing RNA with Genetically Encoded Fluorescent Probe (Univ. of Tokyo) YAMADA, Toshimichi; YOSHIMURA, Hideaki; HATTORI, Mitsuru; OZAWA, Takeaki
- 2G1-36** Development of stem cells imaging method using cadmium-free quantum dots (Graduate School of Engineering, Nagoya Univ.) MIYAZAKI, Yoshiyuki; YUKAWA, Hiroshi; NISHI, Hiroyasu; YASUI, Takao; KAJI, Noritada; TORIMOTO, Tsukasa; BABA, Yoshinobu
- 2G1-37\*** Single-molecule analysis of dynamics of a signal transduction molecule Akt (Univ. of Tokyo) YOSHIMURA, Hideaki; OZAWA, Takeaki

Chair: KAJI, Noritada (15 : 30~16 : 30)

- \* 15:20-15:30: interval for laptop PC connection.(2G1-40, 2G1-42, 2G1-44)
- 2G1-40\*** Increase sensitivity of on-chip graphene aptasensor by using spacer-introduced aptamer (NTT Microsystem Integration Labs. NTT Corp.) UENO, Yuku; FURUKAWA, Kazuaki; MATSUO, Kota; INOUE, Suzuyo; HAYASHI, Katsuyoshi; HIBINO, Hiroki; TAMECHIKA, Emi
- 2G1-42\*\*** Quantitative Analysis and Imaging for Phosphatidylinositol 3,4,5-trisphosphate on Cell Membrane by Split Luciferase Complementation. (Univ. of Tokyo) YANG, Lingzhi; NASU, Yusuke; OZAWA, Takeaki
- 2G1-44\*** Fabrication of bioluminescent capsules for live-cell imaging (EMTECH, AIST) KIM, sung bae

Chair: OHSHIRO, Takahito (16 : 40~17 : 30)

- \* 16:30-16:40: interval for laptop PC connection.(2G1-47, 2G1-48, 2G1-49, 2G1-50, 2G1-51)
- 2G1-47** Design of Triple Bond Formation for Raman Imaging of Biomolecules (RCast, The Univ. of Tokyo) IKEDA, Taro; HAYASHI, Gosuke; OKAMOTO, Akimitsu
- 2G1-48** Ex vivo multimodal nonlinear optical imaging of rat cornea (the University of Tokyo, University of Tsukuba) SEGAWA, Hiroki; KAJI, Yuichi; KANO, Hideaki; OZAWA, Takeaki
- 2G1-49** Fourier Transform Infrared spectroscopic measurement: a method that aims to distinctly identify periodontal disease in saliva samples (Kyushu Inst. Tech.) FUJII, Satoshi; FUKUDA, Keisuke; NAKASHIMA, Keisuke; NISHIHARA, Tatsuji; SATO, Shinobu; TAKENAKA, Shigeori
- 2G1-50** Study of tube radial distribution phenomenon (TRDP) and its application; development chromatography (TRDC) by taking advantage of on-line fluorescence derivatization (Graduate School of Science and Engineering, Doshisha University ; TRDP Research Center) HAMAGUCHI, Yuya; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 2G1-51** Development of newly diagnostic method of the large intestine cancer using total porphyrin precursor concentration as cancer maker (Numazu National College of Technology; Hasumi Lab.) NIIMI, Mari; ASHIKAWA, Yasushi; WATANABE, Satoshi; KAMIYA, Shinji; OKURA, Ichiro; TSUCHIYA, Tatsuyuki; YAMAMOTO, Toshiaki; TAKEGUCHI, Masayuki; HASUMI, Fumihiko

### Sunday, March 24, AM

Chair: HISAMOTO, Hideaki (9 : 10 ~ 10 : 10)

- \* 9:00-9:10: interval for laptop PC connection.(3G1-02, 3G1-04, 3G1-05, 3G1-07)
- 3G1-02\*** Highly sensitive electrophoretic analysis using LVSEP: Application to cationic analytes. 4 (Graduate School of Engineering, Kyoto University; Health Research Institute, National Institute of Advanced Industrial Science and Technology; Graduate School of Science and Technology, Hirosaki University) ITO, Jun; KAWAI, Takayuki; SUEYOSHI, Kenji; KUBO, Takuya; KITAGAWA, Fumihiko; OTSUKA, Koji
- 3G1-04** Sensitivity Enhancement in Capillary Electrophoresis-Mass Spectrometry Using LVSEP. 4 (Graduate School of Engineering, Kyoto University) OTA, Hiroya; KAWAI, Takayuki; SUEYOSHI, Kenji; KUBO, Takuya; KITAGAWA, Fumihiko; OTSUKA, Koji
- 3G1-05\*** Self-assembled nanowire structures for DNA separation (Nagoya Univ. ;FIRST, Nagoya Univ. ;ISIR, Osaka Univ.) YASUI, Takao; SAKON, Rahong; YANAGIDA, Takeshi; KAJI, Noritada; KANAI, Masaki; KAGASHIMA, Kazuki; TOKESHI, Manabu; KAWAI, Tomoji; BABA, Yoshinobu
- 3G1-07** Controlling the translocation velocity of a single DNA molecule through nanopore channels (Graduate School of Engineering, Nagoya Univ. ; FIRST Research Center for Innovative Nanobiodevices, Nagoya Univ.) SUN, Xiaoyin; YASUI, Takao; SAKON, Rahong; YANAGIDA, Takeshi; KAJI, Noritada; KANAI, Masaki; NAGASHIMA, Kazuki; KAWAI, Tomoji; BABA, Yoshinobu

Chair: MAWATARI, Kazuma (10 : 20~11 : 20)

- \* 10:10-10:20: interval for laptop PC connection.(3G1-09, 3G1-10, 3G1-11, 3G1-12, 3G1-13, 3G1-14)
- 3G1-09** Development of DNA extraction methods by nanowire devices (Graduated School of Engineering, Nagoya Univ. ; FIRST Research Center for Innovative Nanobiodevices, Nagoya Univ.) OOTSUKA, Kouhei; YASUI, Takao; SAKON, Rahong; YANAGITA, Takeshi; KANAI, Masaki; NAGASHIMA, Kazuki; KAJI, Noritada; KAWAI, Tomoji; BABA, Yoshinobu
- 3G1-10** Ultra-fast Separation of Biomolecules by Using Nanobiodevice

- (Graduate School of Engineering, Nagoya Univ. ; FIRST Research Center for Innovative Nanobiodevices, Nagoya Univ.) WU, Qiong; YASUI, Takao; SAKON, Rahong; NAGASHIMA, Kazuki; YANAGIDA, Takeshi; KANAI, Masaki; KAJI, Noritada; TOKESHI, Manabu; KAWAI, Tomoji; BABA, Yoshinobu
- 3G1-11** Development of ESI Interface-integrated Microdevice for an Application of LVSEP to Microchip Electrophoresis-Mass Spectrometry. 5 (Graduate School of Engineering, Kyoto University) OKETANI, Mami; KAWAI, Takayuki; SUEYOSHI, Kenji; KUBO, Takuya; KITAGAWA, Fumihiko; OTSUKA, Koji

- 3G1-12** Label-free Electrophoretic Analysis of Carbohydrates Using Complexation with Quinoloneboronic Acids. 2 (Graduate School of Engineering, Kyoto University) KANEMORI, Koichi; KAWAI, Takayuki; SUEYOSHI, Kenji; KUBO, Takuya; KITAGAWA, Fumihiko; OTSUKA, Koji
- 3G1-13** Electrophoretic Analysis Using a Capillary Partially Filled with an Affinity Ligand-encapsulated Hydrogel. 3 (Graduate School of Engineering, Kyoto University) FUKUSHIMA, Yuda; SUEYOSHI, Kenji; KUBO, Takuya; KITAGAWA, Fumihiko; OTSUKA, Koji
- 3G1-14** Development of simple and highly-sensitive enzyme activity assay device using the combination of reagent release capillary and hydrogel including micellar solution (Osaka Pref. Univ.) AGURA, Naoki; ENDO, Tatsuro; HISAMOTO, Hideaki

Chair: SUEYOSHI, Kenji (11 : 30~12 : 10)

- \* 11:20-11:30: interval for laptop PC connection.(3G1-16, 3G1-17, 3G1-19)
- 3G1-16** Deep Microfluidic Absorbance Detection Cell Replicated from Thickly Stacked SU-8 Dry Film Resist Mold (Nagoya Univ.) ONOSHIMA, Daisuke; WANG, Jun; AKI, Michihiko; ARINAGA, Kenji; KAJI, Noritada; TOKESHI, Manabu; FUJITA, Shozo; YOKOYAMA, Naoki; BABA, Yoshinobu
- 3G1-17\*** Capillary-Assembled Microchip-3rd Generation (CAS-Chip-3G)(1): Development of Mass-Productible Capillary-Array Chip and Fundamental Investigation on the Sample Introduction (Osaka Pref. Univ.) HENARES, Terence G.; FUNANO, Shun-ichi; ENDO, Tatsuro; HISAMOTO, Hideaki
- 3G1-19** Microscale experiment of analytical chemistry in undergraduate level -Practice in Chuo University- (Chuo Univ.) KATAYAMA, Kenji; KUWAHARA, Shota; MATSUI, Takayuki; SAITO, Yutaka; MARUI, Sachiko

### Sunday, March 24, PM

Chair: HIBARA, Akihito (14 : 30~15 : 20)

- \* 14:20-14:30: interval for laptop PC connection.(3G1-34, 3G1-35, 3G1-36, 3G1-37, 3G1-38)
- 3G1-34** Improvement and Characterization of Test Strip Loaded with Molybdate Adsorbed Latex Nanoparticle for Detection of Ppb-level Arsenic (V) (Nagaoka Univ. of Tech.) SHIDA, Yasutaro; TAKAHASHI, Yukiko
- 3G1-35** Study of tube radial distribution phenomenon (TRDP) and its application; chemiluminescence of singlet oxygen in a microspace and the TRDP effect (Faculty of Science and Engineering, Doshisha University; TRDP Research Center) SUZUKI, Naomichi; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 3G1-36** Study of tube radial distribution phenomenon (TRDP) and its application; development of microchip chromatography (MC-TRDC) (Graduate School of Science and Engineering, Doshisha University; TRDP Research Center) MATSUDA, Takafumi; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko
- 3G1-37** Development of polymer modification method in extended nanopore and application to nanochromatography (Department of applied chemistry, The University of Tokyo) KATAGIRI, Junpei; MAWATARI, Kazuma; KITAMORI, Takehiko
- 3G1-38** Withdrawn

Chair: ENDO, Tatsuro (15 : 30~16 : 20)

- \* 15:20-15:30: interval for laptop PC connection.(3G1-40, 3G1-41, 3G1-42, 3G1-43, 3G1-44)
- 3G1-40** A novel high sensitivity method for non-labeling amplified DNA detection based on diffracted light by nanostructures (Graduate School of Engineering, Nagoya Univ. ; FIRST Research Center for Innovative Nanobiodevices, Nagoya Univ.) OGAWA, Kensuke; YASUI, Takao; KAJI, Noritada; TOKESHI, Manabu; HORIIKE, Yasuhiro; NILSSON, Mats; BABA, Yoshinobu
- 3G1-41** A Microfluidic Device for Permeability Assays of Lymphatic Capillaries (Japan Women's Univ.; Hamamatsu Univ. School of Medicine) SATO, Miwa; SASAKI, Naoki; HIRAKAWA, Satoshi; SATO, Kae
- 3G1-42** Interfacial-photo chemistry in microfluid actuation by utilizing photo-degradative surfactant (Japan Women's Univ.; IIS, The Univ of Tokyo.) HARADA, Marie; FUKUYAMA, Mao; SATO, Kae; HIBARA, Akihito
- 3G1-43** Development of free-flow electrophoresis microdevices for purification of the gene therapeutic nanodevices (Graduate School of Engineering, Nagoya Univ. ; FIRST Research Center for Innovative Nanobiodevices, Nagoya Univ.) SHIGENAKA, Daisuke; UKAWA, Masami; KAJI, Noritada; TOKESHI, Manabu; AKITA, Hidetaka; HARASHIMA, Hideyoshi; BABA, Yoshinobu
- 3G1-44** Study on enzyme reaction in inter-cellular bio-mimetic extended-nano

space (Sch. Eng., The Univ. of Tokyo) SARUKO, Takashi; MAWATARI, Kazuma; KITRAMORI, Takehiko

Chair: SATO, Kae (16 : 30~17 : 20)

\* 16:20-16:30: interval for laptop PC connection.(3G1-46, 3G1-48, 3G1-49, 3G1-50)

**3G1-46\*** Practical method for single molecule vibrational spectroscopy (Univ. Osaka, ISIR) TSUTSUI, Makusu; TANIGUCHI, Masateru

**3G1-48** Development of Nanowire devices for separation and enrichment of biomolecules (Graduate School of Engineering, Nagoya Univ. ; FIRST Research Center for Innovative Nanobiodevices, Nagoya Univ.) ITO, Satoru; YASUI, Takao; HE, Yong; YANAGIDA, Takeshi; SAKON, Rahong; KANAI, Masaki; NAGASHIMA, Kazuki; YUKAWA, Hiroshi; KAJI, Noritada; KAWAI, Tomoji; BABA, Yoshinobu

**3G1-49** Detection of DNA methylation sites at a single DNA molecule level by nanobio-devices (Nagoya Univ.) MIZUTANI, Mayu; YASUI, Takao; KASAMA, Toshihiro; KAJI, Noritada; BABA, Yoshinobu

**3G1-50** Förster resonance energy transfer between different nanoparticles tethered on ssDNA (Faculty of Science and Engineering, Doshisha University) TANAKA, Hironari; HASHIMOTO, Masahiko; TSUKAGOSHI, Kazuhiko

## Monday, March 25, AM

Chair: IMASAKA, Totaro (9 : 40 ~10 : 30)

\* 9:30-9:40: interval for laptop PC connection.(4G1-05, 4G1-06, 4G1-07, 4G1-08, 4G1-09)

**4G1-05** Foreign matter test of food product by Vis-NIR imaging (3) Detection of internal solid foreign object by transmission image. (Graduate school of bioagricultural sciences, Nagoya University) KOBORI, Hikaru; MA, Te; KATAYAMA, Norihisa; TSUCHIKAWA, Satoru

**4G1-06** Elimination of chlorine-concerned spectral interferences on determination of arsenic and vanadium by inductively coupled plasma mass spectrometry (UBE Scientific Analysis Laboratory, Inc.) KOZONO, Shuji

**4G1-07** Development of subpicosecond time resolved absorption microspectroscopic system and its application to organic solids. (Ehime Univ.) UDAKA, Osamu; ISHIBASHI, Yukihide; ASAH, Tsuyoshi

**4G1-08** Development of Fluorometric Determination Method for Be(II) Using Apigenin-Cationic Surfactant Micellar System (Graduate School of Environmental Studies, Tohoku Univ.) KARASHIMADA, Ryunosuke; IKI, Nobuhiko; HOSHINO, Hitoshi

**4G1-09** Luminescence Enhancement System Comprising Surfactant Micelle and 8-hydroxy-7-iodo-5-quinolinesulfonic acid for Trace Determination of Lead(II) (Graduate School of Environmental Studies, Tohoku Univ.) SUGAWARA, Kaori; IKI, Nobuhiko; HOSHINO, Hitoshi

Chair: IKI, Nobuhiko (10 : 40~11 : 40)

\* 10:30-10:40: interval for laptop PC connection.(4G1-11, 4G1-12, 4G1-14, 4G1-15, 4G1-16)

**4G1-11\*** Determination of Pesticides by Gas Chromatography/Time-of-Flight Mass Spectrometry Based on Laser Multiphoton Ionization (Kyushu Univ.; Graduate School of Engineering) YANG, Xixiang; TANG, Yuanyuan; EZOE, Ryota; MATSUI, Taiki; IMASAKA, Totaro

**4G1-12\*** Gas Chromatograph/Multiphoton Ionization/Time-of-Flight Mass Spectrometer Designed for the Detection of Negatively Charged Species (Kyushu Univ.; Graduate School of Engineering) OKUDAIRA, Hiroki; UCHIMURA, Tomohiro; IMASAKA, Totaro

**4G1-14** Chemical state using a high-resolution double-crystal X-ray spectrometer (ICR, Kyoto Univ.) ITO, Yoshiaki; FUKUSHIMA, Sei; TOCHIO, Tatsunori; FUJII, Tatsunori; TERASAWA, Mititaka

**4G1-15** Development of Electrochemical Cell for In Situ XAFS Measurement in Lithium-Ion Secondary Battery Cathode (Ritsumeikan University) MIYAHARA, Ryota; KATAYAMA, Misaki; INADA, Yasuhiro

**4G1-16** Redox property of supported Mn catalyst (Ritsumeikan University) FURUSATO, Kazutaka; UTSUMI, Maiko; KATAYAMA, Misaki; INADA, Yasuhiro

## Room G2

PRISM HOUSE P108

## Education and History

Friday, March 22, PM

Chair: WAKABAYASHI, Fumitaka (13 : 00~14 : 00)

\* 12:50-13:00: interval for laptop PC connection.(1G2-25, 1G2-26, 1G2-27, 1G2-29)

**1G2-25** Quantitative Measurement of Copper Ion Concentrations in Water with a Simple Reflection Colorimeter. (Kyoto Municipal Fushimi Technical High School) HATA, Sohei

**1G2-26** Volume Change in Diluting Sodium Chloride Aqueous Solutions

(Kobe College) NAKAGAWA, Tetsuo

**1G2-27\*** Microscale experiment of analytical chemistry in undergraduate level -Practice in Chuo University- (Chuo Univ.) KATAYAMA, Kenji; KUWAHARA, Shota; MATSUI, Takayuki; SAITO, Yutaka; MARUI, Sachiko; FUKUZAWA, Sinichi

**1G2-29\*** The Applicability of the Newly Developed Microscale Chemistry Kit to Activities for Pupils (Tohoku Univ.) OGINO, Kazuko; KURIYAMA, Yasunao; KOBAYASHI, Masahiro; INOMATA, Shinji; OGINO, Hiroshi

Chair: OGINO, Kazuko (14 : 10~15 : 10)

\* 14:00-14:10: interval for laptop PC connection.(1G2-32)

**1G2-32 CSJ Award for Chemical Education** Contributions to Chemical Education by Development and Delivery Practice of Teaching Materials and Methods in Chemical Experiments (Dept. of Sci. Edu. (Org. Chem.), Aichi Univ. of Education) Toya, Yoshiaki

Chair: SHIMO, Mamoru (15 : 20~16 : 20)

\* 15:10-15:20: interval for laptop PC connection.(1G2-39)

**1G2-39 CSJ Award for Chemical Education** Contribution to the Chemistry Education and the Chemistry Popularization Based on the National Museum of Nature and Science's Activity (Natl. Mus. Nature & Science) Wakabayashi, Fumitaka

Chair: KATAYAMA, Kenji (16 : 30~17 : 30)

\* 16:20-16:30: interval for laptop PC connection.(1G2-46, 1G2-48, 1G2-50)

**1G2-46\*** Introduction of cooperative exercises to lectures on basic chemistry in university. (Okayama Univ. of Sci.) TAKAHARA, Shuichi

**1G2-48\*** Development of a web-voting system intended for using in the peer-instruction method (Naurto Univ. of Educ.) TAKEDA, Kiyoshi

**1G2-50\*** The chemical playing cards as teaching material for valence bonding: according to new chemical structural formula (Lab. Global Energy System) SANO, Hiroshi

## Saturday, March 23, AM

Chair: OHASHI, Atsushi (9 : 20 ~10 : 20)

\* 9:10-9:20: interval for laptop PC connection.(2G2-03, 2G2-06)

**2G2-03 CSJ Award for Merits for Chemical Education** Implementing Chemistry Education for Remedial Students (Minato Highschool of Osaka Prefecture) Hirai, Toshio

**2G2-06 CSJ Award for Merits for Chemical Education** Development of Experimental Devices and the Video Teaching Materials with a high education effect (Tokyo Metropolitan Aoyama Senior High School) Yoshida, Takumi

Chair: TAKAGI, Yumiko (10 : 30~11 : 30)

\* 10:20-10:30: interval for laptop PC connection.(2G2-10, 2G2-13)

**2G2-10 CSJ Award for Merits for Chemical Education** Development and Dissemination of Chemistry Teaching Aids Applicable to Science Class of Elementary and Junior High Schools (Shinagawa city united Hoyonomori Junior High Schools) Yamaguchi, Akihiko

**2G2-13 CSJ Award for Merits for Chemical Education** Contribution to High School Chemistry Education through Improvement of Theoretical Understanding of Chemistry and Development of Teaching Materials for Experiments (Osaka Prefectural Shimizudani High School) Ishizu, Tanyuu

Chair: KISHII, Kazuyuki (11 : 40~12 : 10)

\* 11:30-11:40: interval for laptop PC connection.(2G2-17)

**2G2-17 CSJ Award for Merits for Chemical Education** The Advancement of Chemical Education for High School Students (Miyagi Prefectural Sendai Daini Senior High School) Watanabe, Naoshi

## Saturday, March 23, PM

Chair: HAYASHI, Hideko (13 : 20~14 : 20)

\* 13:10-13:20: interval for laptop PC connection.(2G2-27, 2G2-28, 2G2-29, 2G2-30, 2G2-31, 2G2-32)

**2G2-27** What is *koobunshi-porimaa*? Usage and polysemy of *koobunshi* and related terms (Department of Human System Science, Tokyo tech.) TAKANO, Akihiko; NOHARA, Kayoko

**2G2-28** Junior High School Student's Attitude toward School Science textbook between China and Japan (Kagawa Univ.) WANG, Shan; ONISHI, Miho; SASAKI, Nobuyuki; TAKAGI, Yumiko

**2G2-29** Development of environmental-benign teaching material; Host a science Fair. (Kagawa Univ.) KAGAWA, Saneyoshi; TAKAGI, Yumiko

**2G2-30** Chemical education using photofunctional chromophores (Univ. of Tokyo) ISHII, Kazuyuki; KAWAGOE, Shio; OSHIMA, Marie

**2G2-31** Development of an effective learning materials for structure of metal crystals (Univ. of Ehime) OHASHI, Atsushi

**2G2-32** Significance and methods of teaching chemically on "Origins of Life" (Naruto University of Education) MUNEGUMI, Toratane

Chair: MUNEGUMI, Toratane (14 : 30~15 : 30)

\* 14:20-14:30: interval for laptop PC connection.(2G2-34, 2G2-35, 2G2-36,

2G2-37, 2G2-38)

- 2G2-34** Visualization experiment of dissolution reaction of zinc in the Volta's battery (Chiba Univ.) SUZUKI, Koutarou; HAYASHI, Hideko
- 2G2-35** The Trial Use of Dry Battery Kits for Technical Education and the Present Status of its Effect (Osaka Electro-Commun. Univ.) TANASE, Shigeo; YUGUCHI, Yoshiaki
- 2G2-36** Modification of dye-sensitized solar cell in teaching materials for elementary and junior high schools (Nagasaki Univ.) HOSHINO, Yoshimasa; TAKAKI, Takuro
- 2G2-37** A practice of corrosion study guidance for graduate students registered at electrical engineering course (Nippon Telegraph and Telephone Corporation; Kanazawa University) SAITO, Hiroyuki
- 2G2-38\*** Development of the oxygen sensor for elementary and secondary educations and teaching materials development- Respiration of mushroom- (Tokyo National College of Technology) TAKAHASHI, Mitsuo; SONOBE, Yukie; SATO, Michiyuki; IIDA, Hiroshi; OHIRA, Kazuyuki; ISHIGURO, Mitsuhiro; KONDO, Hirobumi; GOTO, Kenichi; HAYASHI, Seiichi; HORI, Tesuo; YAMAMOTO, Katsuhiko; TERATANI, Shousuke; MATSUBARA, Shizuo

Chair: TAKAHASHI, Mitsuo (15 : 40~16 : 40)

- \* 15:30-15:40: interval for laptop PC connection.(2G2-41, 2G2-42, 2G2-43, 2G2-44, 2G2-45, 2G2-46)
- 2G2-41** The experiment of unelectrolyzed tin plating and bronze plating (Tokyo Univ. of Sci.) HORI, Hazuki; INOUE, Masayuki
- 2G2-42** Color change at the time of the fusion in the Sn-Zn alloy surface (Oita natl college of technology) KIYOMATSU, Tenki; HIMENO, Keita; TANAKA, Yudai; ABE, Kouhei; HIRANO, Rui; NINOMIYA, Junko
- 2G2-43** Hydrogenation of plant oils catalyzed with chitin-supported palladium (Tokyo Univ. of Sci.) ABIRU, Daisuke; INOUE, Masayuki
- 2G2-44** Structural Determination of Malic Acid as Teaching Material (Graduate School of Education, Hiroshima University) ENDO, Daisuke; AMIMOTO, Kiichi
- 2G2-45** The convenient coloring reaction to detect esters accelerated with cationic surfactants- classification by the component of fatty acids in plant oils - (Tokyo Univ. of Sci.) NAGASAKI, Kazuki; INOUE, Masayuki
- 2G2-46** Saponification of esters accelerated by cationic surfactants (2)- Application to the synthesis of soap - (Tokyo Univ. Sci.) INOUE, Masayuki; YAMAMOTO, Tuyoosi

Chair: INOUE, Masayuki (16 : 50~17 : 30)

- \* 16:40-16:50: interval for laptop PC connection.(2G2-48, 2G2-50, 2G2-51)
- 2G2-48\*** Development of Teaching Materials for Concise Isolation Method of Carotenoids and Practice of the Chemical Experiments Study (Miyagi University of Education) ENDO, Kazuki; KASAI, Kayoko
- 2G2-50** The application of CDP to aim the molecular recognition in secondary education (Ohtani Jr.&Sr. High school) NISHIDA, Tetsuya
- 2G2-51** A Simple Measurement Method of Enzyme Kinetics by Use of a Redox Indicator (Graduate School of Education, Hiroshima University) NISHIGUCHI, Hiromitsu; AMIMOTO, Kiichi

## Room G3

### PRISM HOUSE P109

## Theoretical Chemistry, Informatics Chemistry and Computational Chemistry

Friday, March 22, AM

Chair: KISHI, Ryohei (9 : 00 ~9 : 40)

- \* 8:50-9:00: interval for laptop PC connection.(1G3-01, 1G3-02, 1G3-03, 1G3-04)
- 1G3-01** Dependencies of calculated magnetic interactions on basis sets and functional sets in (VO)<sub>n</sub> clusters (Osaka University) KITAGAWA, Yasutaka; MATSUI, Tohru; YASUDA, Natsumi; HATAKE, Hiroshi; KAWAKAMI, Takashi; YAMANAKA, Shusuke; OKUMURA, Mitsutaka
- 1G3-02** Analysis of electronic structures of gold clusters based on linear response function (Sch. Sci., Osaka Univ.) UEDA, Koki; YAMANAKA, Shusuke; KITAGAWA, Yasutaka; KAWAKAMI, Takashi; YAMAGUCHI, Kizashi; NAKAMURA, Haruki; OKUMURA, Mitsutaka
- 1G3-03** A theoretical approach to QM/MM boundary problems based on linear response function (Sch. Sci., Osaka Univ.) YAMANAKA, Shusuke; UEDA, Koki; KITAGAWA, Yasutaka; KAWAKAMI, Takashi; OKUMURA, Mitsutaka; YAMAGUCHI, Kizashi; NAKAMURA, Haruki
- 1G3-04** A theoretical study of the heavy atom effects on the zero-field splitting tensors of high-spin oligonitrenes (Osaka City University; Osaka University) SUGISAKI, Kenji; TOYOTA, Kazuo; SATO, Kazunobu; SHIOMI, Daisuke; KITAGAWA, Masahiro; TAKUI, Takeji

Friday, March 22, PM

Chair: OKUMURA, Mitutaka (12 : 40~13 : 40)

- \* 12:30-12:40: interval for laptop PC connection.(1G3-23)
- 1G3-23 CSJ Award for Creative Works** Development of Multi-Physics Simulator Based on Quantum Chemistry and Design of Chemical-Reaction-Controlled Mechanical System (Grad. Sch. Eng., Tohoku Univ.) KUBO, Momoji

Chair: TORII, Hajime (13 : 50~14 : 50)

- \* 13:40-13:50: interval for laptop PC connection.(1G3-30, 1G3-31, 1G3-33, 1G3-34)
- 1G3-30** Theoretical Study on the Electronic Structures of Lanthanoid-Cyclooctatetraene Complexes (Univ. of Keio) YABUSHITA, Satoshi; NAKAJO, Erika; MASUDA, Tomohide
- 1G3-31\*** Theoretical study of intramolecular charge migrations through fundamental and overtone intensities of OH and CH stretching vibrations (Keio Univ.) TAKAHASHI, Hirokazu; YABUSHITA, Satoshi
- 1G3-33** Theoretical Study of Electron Transfer in a Liquid Medium (Graduate School of Science, Nagoya University;WPI-ITbM, Nagoya University) USUI, Kosuke; YOKOGAWA, Daisuke; IRLE, Stephan
- 1G3-34\*** Development of TD-DFT calculation coupled with RISM-SCF-SEDD and application to excited state calculation in solution (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) YOKOGAWA, Daisuke; IRLE, Stephan

Chair: YABUSHITA, Satoshi (15 : 00~16 : 00)

- \* 14:50-15:00: interval for laptop PC connection.(1G3-37, 1G3-38, 1G3-39, 1G3-41)
- 1G3-37** Time-resolved Spectrum and Theoretical Calculation on the Photo-excitation and Relaxation Processes of Hydrophobic Environment Fluorescent Probe Anilino-naphthalenesulfonate (Tokyo Univ. of Science) YANO, Rie; BANNO, Motohiro; YUI, Hiroharu
- 1G3-38** A consideration on the similarity between halogen bonding and hydrogen bonding (Shizuoka Univ.) TORII, Hajime
- 1G3-39\*** Accurate prediction of the muon-electron hyperfine coupling constant of muonated ethyl radical: an ab initio path integral simulations study (Yokohama City Univ.) YAMADA, Kenta; KAWASHIMA, Yukio; TACHIKAWA, Masanori
- 1G3-41\*** Development of multi-component molecular orbital method for solvent effect (Yokohama City Univ.) KANEMATSU, Yusuke; TACHIKAWA, Masanori

Chair: SATO, Hirofumi (16 : 10~17 : 10)

- \* 16:00-16:10: interval for laptop PC connection.(1G3-44, 1G3-45, 1G3-46, 1G3-48)
- 1G3-44** Analysis of weak inter-molecular interactions in nano-molecules by RI-MP2 massively parallel calculations (RIKEN AICS) KATOUDA, Michio; NAKAJIMA, Takahito
- 1G3-45** Development of a scalable MRCI theory : Joint approach with the full-internally contracted representation and ab initio DMRG method (Institute for Molecular Science) SAITOW, Masaaki; KURASHIGE, Yuki; YANAI, Takeshi
- 1G3-46\*** Multireference electronic-structure theory based on the density matrix renormalization group algorithm: Theory and application to the study of the manganese cluster in PS II (Institute for Molecular Science) KURASHIGE, Yuki; YANAI, Takeshi
- 1G3-48\*** Collective electron motion in noble-metal clusters and mechanism of Raman enhancement (IMS; GUAS) YASUIKE, Tomokazu; NOBUSADA, Katsuyuki

Chair: KURASHIGE, Yuki (17 : 20~18 : 20)

- \* 17:10-17:20: interval for laptop PC connection.(1G3-51, 1G3-52, 1G3-53, 1G3-54, 1G3-55, 1G3-56)
- 1G3-51** Theoretical study of solvation structure of Co(III)-Cysteine complexes in aqueous media by RISM-SCF-SEDD method (Kyoto University) FUKUDA, Genta ; SATO, Hirofumi
- 1G3-52** Theoretical study on solvatochromism of merocyanine using RISM-SCF-SEDD method (Kyoto Univ.) WADA, Takuya; SATO, Hirofumi
- 1G3-53** Theoretical study on the excited states of flavin species in aqueous solution with RISM-SCF-SEDD method (Kyoto Univ.) INAGAMI, Naoto; SATO, Hirofumi
- 1G3-54** Theoretical Study of Magnetic Property for Cyano-bridged Single-chain Transition Metal Complexes (Kyoto Univ.) MASUI, Motonori; SATO, Hirofumi; NAKAO, Yoshihide
- 1G3-55** Theoretical Study of Luminescent Platinum (II) Complex in Crystal Structure (Kyoto Univ.) KATO, Ryosuke; SATO, Hirofumi; NAKAO, Yoshihide
- 1G3-56** biradical dyes designed by quantum chemical calculation (Postgraduate Tokyo Institute of Technology;School of engineering) HIYOSHI, Junya; HAYASHI, Yoshihiro; KAWAUCHI, Susumu

scale systems (Waseda Univ.) SEINO, Junji; NAKAI, Hiromi

Chair: KAMACHI, Takashi (16 : 30~17 : 20)

\* 16:20-16:30: interval for laptop PC connection.(2G3-46, 2G3-47, 2G3-48, 2G3-49)

**2G3-46** Theoretical study on the dynamic first hyperpolarizabilities using the quantum master equation approach based on the time-dependent density functional theory (Osaka University) MURATA, Yusuke; KISHIMOTO, Shingo; ITO, Soichi; HUKUDA, Koutaro; KISHI, Ryohei; NAKANO, Masayoshi**2G3-47** Theoretical study on non-linear optical properties of polycyclic aromatic hydrocarbon systems by the real-space functional theory (Osaka Univ.) INUI, Tomoya; OKUNO, Katsuki; BABA, Takeshi; YONEDA, Kyohai; FUKUDA, Kotaro; SHIGETA, Yasuteru; NAKANO, Masayoshi**2G3-48** Theoretical study on charge-dependence of nonlinear optical properties of silicon nano-dots (Osaka University) KUWABARA, Hiroyuki; INUI, Tomoya; OKUNO, Katsuki; FUKUDA, Koutarou; BABA, Takeshi; SHIGETA, Yasuteru; NAKANO, Masayoshi**2G3-49\*** QSPR Study for Estimating Acid Dissociation Constant Using Combination of Cumulated Bond Order Indices (FUJITSU LABORATORIES LTD.) SATO, Hiroyuki; TAKAHASHI, Atsuya; MATSUURA, Azuma

## Sunday, March 24, AM

Chair: TAKANO, Yu (9 : 10 ~ 10 : 10)

\* 9:00-9:10: interval for laptop PC connection.(3G3-02, 3G3-04, 3G3-06, 3G3-07)

**3G3-02\*** A computational scheme for computing redox potential of metal complexes by using solvation models (Department of Chemistry, Graduate school of Science, Osaka University; Department of Materials Engineering Science, Graduate School of Engineering Science, Osaka University) MATSUI, Toru; KITAGAWA, Yasutaka; SHIGETA, Yasuteru; OKUMURA, Mitsutaka**3G3-04\*** Computational Mutation Analysis of Diol Dehydratase in the Glycerol Dehydration Reaction (IMCE) DOITOMI, Kazuki; KAMACHI, Takashi; TORAYA, Tetsuo; YOSHIZAWA, Kazunari**3G3-06** Quantum Chemical study on the mechanism of the light-harvesting antenna in photosystem II (Center for Computational Sciences, Univ. of Tsukuba) TAGUCHI, Masahiko; KOMATSU, Yu; SATO, Akimasa; SO, Eunseong; SHOJI, Mitsuo; KAYANUMA, Megumi; KAMIYA, Katsumasa; UMEMURA, Masayuki; YABANA, Kazuhiro; SHIRAISHI, Kenji**3G3-07** QM/MM geometry optimization on HIV-1 protease complexes (Department of Chemistry, Univ. of Tsukuba) KANDATSU, Tomoaki; MORIHASHI, Kenji

Chair: MITANI, Masaki (10 : 20~11 : 20)

\* 10:10-10:20: interval for laptop PC connection.(3G3-09, 3G3-12, 3G3-13, 3G3-14)

**3G3-09** Young Scholar Lectures of CSJ Theoretical study on molecular recognition of biomolecules by integral equation theory of liquids (Kyushu University) Yoshida, Norio**3G3-12** Theoretical study on Fluorescence Enhancement of PicoGreen Dye (Advanced Science and Engineering, Waseda Univ.; Faculty of Science, Kapsart Univ.; RISE, Waseda Univ.; JST-CREST) TAKADA, Yuta; SAPARPAKORN, Patchreenart; OKOSHI, Masaki; YOSHIKAWA, Takeshi; NAKAI, Hiromi**3G3-13** A QM/MM study on the Cyclooxygenase reaction mechanism (Ibaraki Univ., JST ACT-C) YOSHIMURA, Takayoshi; MORI, Seiji**3G3-14** Ab initio calculations on the pi-conjugation length and molecular orientation of PCBM/P3HT as organic photovoltaic(OPV) cells (Univ. of Tokyo) HOSHINO, Seira; FUJII, Mikiya; YAMASHITA, Koichi

Chair: YOSHIDA, Norio (11 : 30~12 : 30)

\* 11:20-11:30: interval for laptop PC connection.(3G3-16, 3G3-17, 3G3-18, 3G3-19, 3G3-20)

**3G3-16** Ab initio study on the cathode material Na<sub>2</sub>FePO<sub>4</sub>F of sodium ion batteries (Univ. of Tokyo) UBAGAI, Ryo; TSUBAKIYAMA, Kenta; YAMASHITA, Koichi**3G3-17** Hole mobility prediction of rubrene including the crystal field effect (Univ. of Tsukuba) KASE, Kouichi; MORIHASHI, Kenji**3G3-18** Development of the calculation method for Franck-Condon factors including the axis-switching effect, and the application to organic molecules (Fac. Sci. Tech., Keio Univ.) YAMAMOTO, Takuma; YABUSHITA, Satoshi**3G3-19** Potts model formulation of intermolecular interactions on conformations and its application to 1-methyl-3-propyl-imidazolium chloride (Tottori Univ. Graduate School of Engineering) HAYASE, Shuichi; NOKAMI, Toshiaki; ITOH, Toshiyuki**3G3-20\*** Optimization of the Homodesmotic Stabilization Energy of Benzene (Shizuoka Univ.) NAKAGAMI, Yuto; SEKINE, Rika; AIHARA, Jun-ichi

## Saturday, March 23, AM

Chair: YASUIKE, Tomokazu (9 : 00 ~ 9 : 30)

\* 8:50-9:00: interval for laptop PC connection.(2G3-01, 2G3-02)

**2G3-01** Theoretical investigation of Cl removal from Au cluster (Grad. Sch. Sci., Osaka Univ.) TADA, Kohei; SAKATA, Kohei; HAYASHI, Sachio; KITAGAWA, Yasutaka; KAWAKAMI, Takashi; YAMANAKA, Shusuke; OKUMURA, Mitsutaka**2G3-02\*** A Theoretical Study of Activation of Ketone by Ge(II) Hydride and Prediction of Catalytic Cycle (Fukui Institute for Fundamental Chemistry, Kyoto Univ.) TAKAGI, Nozomi; SAKAKI, Shigeyoshi

Chair: SUGIMOTO, Manabu (9 : 40 ~ 10 : 40)

\* 9:30-9:40: interval for laptop PC connection.(2G3-05, 2G3-07, 2G3-09, 2G3-10)

**2G3-05\*** Understandings of chemical reaction dynamics in terms of Stationary Lagrangian Coherent Structure (RIES, Hokkaido Univ.) TERAMOTO, Hiroshi; TODA, Mikito; KOMATSUZAKI, Tamiki**2G3-07\*** Theoretical study on underpotential deposition of Ag ion on Au(111) electrode by finite-temperature density functional theory combined with open boundary cluster model (Institute for molecular science) IIDA, Kenji; YASUIKE, Tomokazu; NOBUSADA, Katsuyuki**2G3-09** Scaled Hypersphere Search of reaction pathways by SCC-DFTB method: Isomerization reactions of C<sub>60</sub> (Wakayama Univ., Hokkaido Univ., Toyota Phys. & Chem. Research Institute.) TOKOYAMA, Hiroaki; YAMAKADO, Hideo; MAEDA, Satoshi; OHNO, Koichi**2G3-10** Exploration of Intermolecular Reaction Processes by GRRM-GDSP Method (Toyota Phys. & Chem. Res. Institute) OHNO, Koichi

Chair: NAKANO, Masayoshi (10 : 50~11 : 50)

\* 10:40-10:50: interval for laptop PC connection.(2G3-12, 2G3-15, 2G3-16)

**2G3-12** CSJ Award for Young Chemists Development of Automated Reaction Path Search Methods and Elucidation of Unknown Reaction Mechanisms (Faculty of Sci., Hokkaido Univ.) MAEDA, Satoshi**2G3-15** A GRRM/AFIR Study on the Mechanism of a Photocycloaddition Reaction (Hokkaido Univ.; Kyoto Univ.; Emory Univ.) MAEDA, Satoshi; HARABUCHI, Yu; TAKETSUGU, Tetsuya; MOROKUMA, Keiji**2G3-16\*** Automated exploration of minimum energy conical intersection geometries by combining GRRM and spin flip TDDFT methods : Toward applications to large molecule (Hokkaido Univ.; Kyoto Univ.; Emory Univ.) HARABUCHI, Yu; MAEDA, Satoshi; TAKETSUGU, Tetsuya; MINEZAWA, Noriyuki; MOROKUMA, Keiji

## Saturday, March 23, PM

Chair: SHIGETA, Yasuteru (13 : 00~14 : 00)

\* 12:50-13:00: interval for laptop PC connection.(2G3-25, 2G3-27, 2G3-29)

**2G3-25\*** Theoretical Investigation of an Aldol-Type Reaction with Rh complex (Graduate School of Science, Nagoya University; WPI-ITbM, Nagoya University) NISHIMOTO, Yoshio; FUJIMORI, Takahisa; YOKOGAWA, Daisuke; IRLE, Stephan**2G3-27\*** Theoretical Study on Heme Metabolism by Heme Oxygenase (IMCE) KAMACHI, Takashi; NISHIMI, Tomonori; YOSHIZAWA, Kazunari**2G3-29\*** Role of Tyrosine Residue in Methane Activation at the Dicopper Site of pMMO: A DFT Study (IMCE Kyushu Univ.) SHIOTA, Yoshihito; YOSHIZAWA, Kazunari

Chair: SHIOTA, Yoshihito (14 : 10~15 : 10)

\* 14:00-14:10: interval for laptop PC connection.(2G3-32, 2G3-33, 2G3-34, 2G3-36)

**2G3-32** A theoretical study on photodissociation of 1,2-diiodo-tetrafluoroethane in solution (Kyoto Univ.) ISHIKAWA, Rei; SATO, Hirohumi**2G3-33** Electronic Coupling Estimation with Fragment-DFT Implementation (Yasuda Women's University; University of Tsukuba) SHIMODO, Yasuyo; MORIHASHI, Kenji**2G3-34\*** Angular Correlation in He-like Systems and Artificial Atoms (Nihon Univ.) SAKO, Tokuei**2G3-36\*** Theoretical Study on Modulation of Light Absorption of Organic Dyes by Metal Ion (GSST, Kumamoto Univ.) SUGIMOTO, Manabu; NAKAGAWA, Saika; TAKASHIMA, Ippei; OJIDA, Akio

Chair: SAKO, Tokuei (15 : 20~16 : 20)

\* 15:10-15:20: interval for laptop PC connection.(2G3-39, 2G3-41, 2G3-42, 2G3-43)

**2G3-39\*** Time-dependent density functional theory based on local response dispersion method (Waseda Univ.) IKABATA, Yasuhiro; NAKAI, Hiromi**2G3-41** Implementation of local response dispersion method: Extension to plane wave basis (Waseda Univ.; Nakai Lab.) TSUKAMOTO, Yusuke; IKABATA, Yasuhiro; IMAMURA, Yutaka; NAKAI, Hiromi**2G3-42** Divide-and-conquer-based electron correlation theory for spin-dependent two-component relativistic Hamiltonian (Waseda Univ.) NAKANO, Masahiko; SEINO, Junji; NAKAI, Hiromi**2G3-43\*** Linear-scaling fully relativistic quantum-chemical theory for large-



Asian International Symposium  
- Theoretical Chemistry, Chemoinformatics,  
Computational Chemistry -

Sunday, March 24, PM

Chair: SATO, Hirofumi (13 : 30~14 : 30)

- 3G3-28<sup>#</sup>** Opening Remarks (Waseda Univ.) NAKAI, Hiromi (13:30~13:40)  
**3G3-29<sup>#</sup>** Keynote Lecture Development and application of computer simulation techniques: Water cluster and bacterial cytoplasm (Jawaharlal Nehru Univ.) BANDYOPADHYAY, Pradipta (13:40~14:10)  
**3G3-32<sup>#</sup>** Invited Lecture Large scale molecular dynamics calculations of assembly of amphiphilic molecules (Nagoya Univ.) YOSHII, Noriyuki (14:10~14:30)

Chair: GOTO, Hitoshi (14 : 40~15 : 40)

- 3G3-35<sup>#</sup>** Invited Lecture Drug discovery across multiple paradigms - from ligand-based virtual screening to chemical genomics-based virtual screening (Kyoto Univ.) BROWN, J.B. (14:40~15:00)  
**3G3-37<sup>#</sup>** Invited Lecture Recent progresses of molecular dynamics simulation methods: from a proton pump function to drug design (Univ. of Tokyo) YAMASHITA, Takefumi (15:00~15:20)  
**3G3-39<sup>#</sup>** Invited Lecture Virtual sensors with chemoinformatic techniques (Univ. of Tokyo) KANEKO, Hiromasa (15:20~15:40)

Chair: OKUMURA, Mitsutaka (15 : 50~17 : 10)

- 3G3-42<sup>#</sup>** Keynote Lecture Vibrational spectroscopy of carbon nanostructures (National Chiao Tung Univ.) WITEK, Henryk A. (15:50~16:20)  
**3G3-45<sup>#</sup>** Invited Lecture Quantum chemical calculations of large delocalized molecules with the divide-and-conquer method (Waseda Univ.) KOBAYASHI, Masato (16:20~16:40)  
**3G3-47<sup>#</sup>** Invited Lecture Electronic excited states of large conjugated molecules studied by the direct SAC-CI method (Institute for Molecular Science) FUKUDA, Ryoichi (16:40~17:00)  
**3G3-49<sup>#</sup>** Closing Remarks (Shizuoka Univ.) TORII, Hajime (17:00~17:10)

Theoretical Chemistry, Informatics Chemistry  
and Computational Chemistry

Monday, March 25, AM

Chair: KITAGAWA, Yasutaka (9 : 10 ~10 : 10)

- \* 9:00-9:10: interval for laptop PC connection.(4G3-02, 4G3-03, 4G3-04, 4G3-06)  
**4G3-02** Optimal control of molecular alignment/orientation by using the combination of THz and IR laser pulses (Tohoku Univ) YOSHIDA, Masataka; NAKASHIMA, Kaoru; OHTSUKI, Yukiyo; KONO, Hirohiko  
**4G3-03** Numerical synthesis of THz pulses for scalable quantum computing with KCs molecules trapped in an optical lattice (Tohoku Univ.) ARAI, Kenta; OHTSUKI, Yukiyo; KONO, Hirohiko  
**4G3-04\*** The dynamics of quantum dissipative system coupling to structured spectral density: A stochastic solution using a colored noise generation method (Tohoku Univ.) IMAI, Hajime; OHTSUKI, Yukiyo; KONO, Hirohiko  
**4G3-06\*** A real-time simulation on the coherent vibration dynamics in nanocarbons induced by near-IR laser pulses (Tohoku Univ.) YAMAZAKI, Kaoru; NIITSU, Naoyuki; NAKAMURA, Takashi; KANNO, Manabu; KONO, Hirohiko

Chair: KAWAKAMI, Takashi (10 : 20~11 : 20)

- \* 10:10-10:20: interval for laptop PC connection.(4G3-09, 4G3-11, 4G3-13)  
**4G3-09\*** Semiclassical wave packet propagation incorporated nonadiabatic transition for multidimensional systems (Sophia University ; Faculty of Science and Technology) MURAKAMI, Tatsuhiro; KONDORSKIY, Alexey; ISHIDA, Toshimasa; NANBU, Shinkoh  
**4G3-11\*** Quantum Interference Effects of ICI Photofragments (Sci. Tech., Keio Univ.) MATSUOKA, Takahide; YABUSHITA, Satoshi  
**4G3-13\*** Multireference Perturbation Theory for Molecular Vibrations (University of Bristol) MIZUKAMI, Wataru; TEW, David P.

Chair: NAKAO, Yoshihide (11 : 30~12 : 30)

- \* 11:20-11:30: interval for laptop PC connection.(4G3-16, 4G3-17, 4G3-18, 4G3-19, 4G3-20)  
**4G3-16** Theoretical studies on electron dynamics of intramolecular hydrogen transfer reaction in malonaldehyde (Univ. of Tokyo) KUROKI, Ayaka; USHIYAMA, Hiroshi; YAMASHITA, Koichi  
**4G3-17** Theoretical study of chemical bonding through electronic stress tensor density and force constant matrix (Grad. Sch. Eng., Kyoto Univ.) NOZAKI, Hiroo; IKEDA, Yuji; ICHIKAWA, Kazuhide; TACHIBANA, Akitomo  
**4G3-18** Computing the crystal polymorphous structures of polycyclic aromatic hydrocarbons (The Univ. of Electro-Communications) YAMAKITA, Yoshihiro; ITO, Ryo; AZUMAI, Yukie  
**4G3-19** Space group imposed Monte Carlo calculations on the crystal

structures of acenes (The Univ. of Electro-Communications) ITO, Ryo; YAMAKITA, Yoshihiro

- 4G3-20<sup>#</sup>** Kinetic Stability Governs Fullerene C20-C100 Abundances (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) IRLE, Stephan; NISHIMURA, Yoshifumi; FEDOROV, Alexander S.; WITEK, Henryk A.

Room G4

PRISM HOUSE P110

Catalysts and Catalysis

Friday, March 22, PM

Chair: KAMIYA, Yuichi (13 : 00~13 : 50)

- \* 12:50-13:00: interval for laptop PC connection.(1G4-25, 1G4-27, 1G4-28, 1G4-29)  
**1G4-25\*** Evaluation of Lewis acid strength in water by the basic probe molecule and catalytic activities of Lewis acid catalysts (MSL, Tokyo Tech) KOITO, Yusuke; NAKAJIMA, Kiyotaka; KOBAYASHI, Hisayoshi; HASEGAWA, Ryota; KITANO, Masaaki; HARA, Michikazu  
**1G4-27** Cyclodehydration of sugar alcohols by using layered transition metal oxides as solid acid catalysts (Univ. Tokyo) TAKAGAKI, Atsushi; MORITA, Yuya; KIKUCHI, Ryuji; OYAMA, S. Ted  
**1G4-28** Furfural production from xylose aqueous solution over early transition metal oxides (Materials and Structures Laboratory, Tokyo Institute of Technology.) NOMA, Ryohei; NAKAJIMA, Kiyotaka; KITANO, Masaaki; HARA, Michikazu  
**1G4-29** One-Pot Conversion of Pentoses into Furfural Derivatives using Solid Acid and Base Catalysts (Japan Adv. Inst. of Sci. Tech.; Sch. of Mater. Sci.) SHIROTORI, Mahiro; NISHIMURA, Shun; EBITANI, Kohki

Chair: NAKAJIMA, Kiyotaka (14 : 00~14 : 50)

- \* 13:50-14:00: interval for laptop PC connection.(1G4-31, 1G4-32, 1G4-34, 1G4-35)  
**1G4-31** Efficient Synthesis of Quinazoline-2,4(1*H*,3*H*)-diones Using CO<sub>2</sub> and 2-Aminobenzonitriles Catalyzed by a Monomeric Tungstate (Graduate School of Engineering, The University of Tokyo) SUNABA, Hanako; KIMURA, Toshihiro; KAMATA, Keigo; MIZUNO, Noritaka  
**1G4-32\*** Chemical Fixation of Carbon Dioxide at Atmospheric Pressure Catalyzed by a Bifunctional Tungstate Catalyst (School of Engineering, The University of Tokyo) KIMURA, Toshihiro; KAMATA, Keigo; MIZUNO, Noritaka  
**1G4-34** Investigation of base property of various layered double hydroxides (LDHs) in aldol addition (Graduate School of Engineering, Kyoto University) HIROTA, Jun-ichi; TERAMURA, Kentaro; SHISHIDO, Tetsuya; TANAKA, Tsunehiro  
**1G4-35** Comparative study of catalytic activities of SiO<sub>2</sub>, TiO<sub>2</sub>, and Al<sub>2</sub>O<sub>3</sub>-supported H<sub>4</sub>SiW<sub>12</sub>O<sub>40</sub> (Graduate School of Environmental Science, Hokkaido Univ.; Research Faculty of Environmental Earth Science, Hokkaido Univ.) MIYAGI, Yuichi; KAMIYA, Yuichi

Chair: TAKAGAKI, Atsushi (15 : 00~15 : 40)

- \* 14:50-15:00: interval for laptop PC connection.(1G4-37, 1G4-39, 1G4-40)  
**1G4-37\*** Synthesis and Lewis Acid Catalysis of Mesoporous Titanosilicate (MSL, Tokyo Tech) SHINTAKU, Hiroshi; NAKAJIMA, Kiyotaka; KITANO, Masaaki; HARA, Michikazu  
**1G4-39** Synthesis and catalytic property of K-based mixed oxides as solid base (Kumamoto Univ.) IKEUE, Keita; ANDO, Eriko; MACHIDA, Masato  
**1G4-40** Structure and basic property of nitrided FSM-16 (Graduate School of Engineering, Kyoto University) KATO, Yusuke; SHISHIDO, Tetsuya; TERAMURA, Kentaro; TANAKA, Tsunehiro

Chair: KAMATA, Keigo (15 : 50~16 : 40)

- \* 15:40-15:50: interval for laptop PC connection.(1G4-42, 1G4-44, 1G4-45, 1G4-46)  
**1G4-42\*** Temperature Effect on <sup>1</sup>H Chemical Shift of Hydroxyl Groups in Zeolites and their Catalytic Activities as Solid Acids (Tokyo Institute of Technology) MUNAKATA, Hajime; KOYAMA, To-ru; MOTOKURA, Ken; MIYAJI, Akimitsu; BABA, Toshihide  
**1G4-44** Structure and acid property of tungsten oxide on alumina calcined at high temperatures (Grad. Sch. Eng., Kyoto Univ.) HAYASHI, Tomohiro; KITANO, Tomoyuki; SHISHIDO, Tetsuya; TERAMURA, Kentaro; TANAKA, Tsunehiro  
**1G4-45** Lewis Acid Catalysis of WO<sub>3</sub>/ZrO<sub>2</sub> Catalyst in Water (Materials Structures Laboratory, T.I.Tech.) TAKEDA, Daiki; NAKAJIMA, Kiyotaka; KITANO, Masaaki; HARA, Michikazu  
**1G4-46** Solid acid catalysis of Ta-doped titanate nanotubes (MSL, Tokyo Tech) MORITA, Ikki; KITANO, Masaaki; NAKAJIMA, Kiyotaka; HARA, Michikazu

Chair: IKEUE, Keita (16 : 50~17 : 30)

- \* 16:40-16:50: interval for laptop PC connection.(1G4-48, 1G4-50, 1G4-51)  
**1G4-48\*** MTO activity over CON-type zeolites synthesized under various conditions (Tokyo Tech) YOSHIOKA, Masato; YOKOI, Toshiyuki; NOMURA, Junko; TATSUMI, Takashi  
**1G4-50** Pathway of CO<sub>2</sub> entrance into the MFI-type zeolites channels by X-ray single crystal structural analysis. (National Defense Academy of Japan) FUJIYAMA, Shinjiro; KAMIYA, Natsumi; NISHI, Koji; YOKOMORI, Yoshinobu  
**1G4-51** Preparation of Sn-containing MWW type zeolites and evaluation of their catalytic performance (Chem. Res. Lab., Tokyo Tech) ITO, Chihiro; OTOMO, Ryoichi; YOKOI, Toshiyuki; NOMURA, Junko; TATSUMI, Takashi

Chair: HOSOKAWA, Saburo (17 : 40~18 : 20)

- \* 17:30-17:40: interval for laptop PC connection.(1G4-53, 1G4-55, 1G4-56)  
**1G4-53\*** Mechanism of dehydration of sugars over Beta zeolite catalysts (Chemical Resources Laboratory, Tokyo Institute of Technology) OTOMO, Ryoichi; YOKOI, Toshiyuki; NOMURA, Junko; TATSUMI, Junko  
**1G4-55** Movements of Cation in K<sub>11</sub>-ZK4 Zeolite (Toyohashi Univ. of Tech.) KOIZUMI, Yusuke; HIGASHI, Toshiaki; OHGUSHI, Tatsuo  
**1G4-56** Synthesis of TS-1 by Post-synthesis method and its catalytic performance (Chem. Res. Lab., Tokyo Tech) KATSUTA, Sayuri; YOKOI, Toshiyuki; NOMURA, Junko; TATSUMI, Takashi

### Saturday, March 23, AM

Chair: OKUMURA, Kazu (9 : 00 ~9 : 40)

- \* 8:50-9:00: interval for laptop PC connection.(2G4-01, 2G4-02, 2G4-03, 2G4-04)  
**2G4-01** STM studies on surface structure and reactivity of Ni<sub>2</sub>P(101b0). (Hokkaido Univ.) KONO, Kentaro; ARIGA, Hiroko; TAKAKUSAGI, Satoru; OTANI, Shigeki; OYAMA, S. Ted; ASAKURA, Kiyotaka  
**2G4-02** Activation of methane by utilizing the O<sub>2</sub> species adsorbed on CuMFI (Okayama Univ., Kyoto Institute of Tech.) SOGAWA, Yusuke; ITADANI, Atsushi; TORIGOE, Hiroe; OHKUBO, Takahiro; YUMURA, Takashi; KOBAYASHI, Hisayoshi; KURODA, Yasushige  
**2G4-03** The observation of an initial state of an enantioselective hydrogenation using Pd-CD catalyst (Univ. of Hyogo) MAMEDA, Takuya; SUGIMURA, Takashi  
**2G4-04** Application of localized surface plasmon resonanceto the metallic catalyst (Osaka Univ.) TAKAKURA, Shuhei; FUKU, Kojiro; KAMEGAWA, Takashi; MORI, Kohsuke; YAMASHITA, Hiromi

Chair: ARIGA, Hiroko (9 : 50 ~10 : 30)

- \* 9:40-9:50: interval for laptop PC connection.(2G4-06, 2G4-07, 2G4-08)  
**2G4-06** Activation of CH<sub>4</sub> caused by Zn<sup>2+</sup> exchanged in MFI (Okayama University; Kyoto Institute of Technology) ODA, Akira; TORIGOE, Hiroe; ITADANI, Atsushi; OHKUBO, Takahiro; YUMURA, Takashi; KOBAYASHI, Hisayoshi; KURODA, Yasushige  
**2G4-07** In-situ time-resolved XAFS study on Pd(core)-Pd(shell)/C cathode catalysts in polyelectrolyte fuel cells under potential controlled conditions (The Univ. of Electro-Communications; JASRI/Spring-8) NAGAMATSU, Shin-ichi; TAKAO, Shinobu; IMAIZUMI, Yoshiaki; YAMAMOTO, Takashi; SAMJESKE, Gabor; SEKIZAWA, Oki; NAGASAWA, Kensaku; LIU, Licheng; URUGA, Tomoya; IWASAWA, Yasuhiro  
**2G4-08\*** The formation mechanism of particles on Re-modified Ir catalyst using TPR-XAFS (Grad. Sch. Eng., Tohoku Univ.) AMADA, Yasushi; TAMURA, Masazumi; NAKAGAWA, Yoshinao; OKUMURA, Kazu; TOMISHIGE, Keiichi

Chair: TAKAKUSAGI, Satoru (10 : 40~11 : 10)

- \* 10:30-10:40: interval for laptop PC connection.(2G4-11, 2G4-12, 2G4-13)  
**2G4-11** Redox mechanism of cobalt catalysts supported on alumina as studied by XAFS technique (Ritsumeikan University) TOMIGA, Hiroki; YAMASHITA, Syohei; KATAYAMA, Misaki; INADA, Yasuhiro  
**2G4-12** Formation Mechanism of PdCu Alloy Catalyst As Studied by XAFS Technique (Ritumeikan University) SHIMADA, Kana; MIYAKE, Yasuyuki; KATAYAMA, Misaki; INADA, Yasuhiro  
**2G4-13** Redox kinetics of nickel catalysts supported on silica (Ritsumeikan University) YAMASHITA, Shohei; KATAYAMA, Misaki; INADA, Yasuhiro

Chair: KITANO, Masaaki (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(2G4-15, 2G4-17, 2G4-19, 2G4-20)  
**2G4-15\*** Unique Photosensitizing Property of Ruthenium Complex Fixed on Crystal-like Periodic Mesoporous Organosilica (Toyota Central R&D Labs., Inc. ; JST/ACT-C) MAEGAWA, Yoshifumi; WAKI, Minoru; GOTO, Yasutomo; SHIRAI, Soichi; YAMANAKA, Ken-ichi; INAGAKI, Shinji  
**2G4-17\*** Observation on the Micropore Wall Surface of Sulfonated Mesoporous Silica by using Analytical Electron Microscope (Tokyo Univ. of Agri. and Technol.; JEOL Co.Ltd) MAKI, Tei; TOMINAGA, Yoichi  
**2G4-19** Development of One-pot Hydroxylation Reaction of Phenol by Utilizing Core-shell Type Catalyst (Osaka Univ.) IKURUMI, Shohei;

- OKADA, Shusuke; KAMEGAWA, Takashi; MORI, Kohsuke; YAMASHITA, Hiromi  
**2G4-20** Heterogeneous Lewis Acid Catalysts of Tin Triflate constructed within MCM-41 frameworks (Graduate School of Engineering, Osaka Prefecture University) SAITO, Masakazu; IKEDA, Hikaru; HORIUCHI, Yu; MATSUOKA, Masaya

### Saturday, March 23, PM

Chair: NAKAGAWA, Yoshinao (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(2G4-28, 2G4-29, 2G4-30, 2G4-31, 2G4-32, 2G4-33)  
**2G4-28** Synthesis of 2,5-dimethylfuran from sugars using heterogeneous palladium catalyst (Japan Adv. Inst. of Sci. Tech. ; Sch. of Mater.Sci) IKEDA, Naoya; NISHIMURA, Shun; EBITANI, Kohki  
**2G4-29** Methane dehydroaromatization over Mo-modified GaAIMFI catalysts (Saitama Institute of Technology, Osaka Prefecture University) ARITANI, Hirofumi; MOGI, Subaru; OHYA, Fumitaka; NAKAHIRA, Atsushi  
**2G4-30** Development of hydroxyapatite-supported gold nanoparticle catalyst for the efficient synthesis of silyl ethers from hydrosilanes and alcohols (Osaka Univ.) YAMAMOTO, Yuuya; NOUJIMA, Akifumi; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi  
**2G4-31** Development of AgNPs@CeO<sub>2</sub> Core-Shell NanocompositeCatalyst for Chemoselective Reduction of Unsaturated Aldehydes (Osaka Univ.) MATOBA, Motoshi; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi  
**2G4-32** Selective Hydrogenolysis of Polyols Using Pt/WO<sub>3</sub> Catalysts (Osaka Univ.) YAMAKAWA, Takayuki; ARUNDHATHI, Racha; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi  
**2G4-33** Alkaline Earth Titanate as a Ruthenium Catalyst Support for Ammonia Synthesis (Osaka Prefecture University) KAMEI, Genki; HORIUCHI, Yu; MATSUOKA, Masaya

Chair: MATSUOKA, Masaya (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(2G4-35, 2G4-37, 2G4-39, 2G4-40)  
**2G4-35\*** Ru-loaded 12CaO7Al<sub>2</sub>O<sub>3</sub> electride for ammonia synthesis (MSL, Tokyo Tech) KITANO, Masaaki; INOUE, Yasunori; KANBARA, Shinji; HAYASHI, Fumitaka; MATSUISHI, Satoru; YOKOYAMA, Toshiharu; HARA, Michikazu; HOSONO, Hideo  
**2G4-37\*** Preparation of 12CaO 7Al<sub>2</sub>O<sub>3</sub> electride with high-surface area and its catalytic activity for ammonia synthesis (MSL, Tokyo Tech) INOUE, Yasunori; KITANO, Masaaki; MATSUISHI, Satoru; HARA, Michikazu; HOSONO, Hideo  
**2G4-39** Reaction mechanism on Ru-loaded C12A7 electride catalyst for ammonia synthesis (MSL, Tokyo Tech) KANBARA, Shinji; INOUE, Yasunori; KITANO, Masaaki; HARA, Mitikazu; HOSONO, Hideo  
**2G4-40** C12A7 electride supported cobalt catalysts for Ammonia Synthesis (MSL, Tokyo Tech) TOKUNARI, Mai; INOUE, Yasunori; KITANO, Masaaki; HARA, Michikazu; HOSONO, Hideo

Chair: NISHIMURA, Shun (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(2G4-42, 2G4-43, 2G4-44, 2G4-45, 2G4-46, 2G4-47)  
**2G4-42** The development of reversible hydrogenation-dehydrogenation with dihydroimidazolium (Inst. of Industrial Science, Univ. of Tokyo) HATAZAWA, Masahiro; SEINO, Hidetake; YOSHIE, Naoko  
**2G4-43** Hydrogenation of Nitrobenzene by Using Pd Nanoparticles Encapsulated within Metal-Organic Framework (Osaka Prefecture University) NISHIKAWA, Kenji; TOYAO, Takashi; HORIUCHI, Yu; MATSUOKA, Masaya  
**2G4-44\*** The synthesis of PtSn alloy catalysts and their catalytic behaviors in propane dehydrogenation. (Univ. of Japan Chemical; Japan Chemical Co. Ltd) DENG, Lidan; SHISHIDO, Tetsuya; TERAMURA, Kentaro; TANAKA, Tsunehiro  
**2G4-45** Liquid-phase total hydrogenation of furfural over Pd-based catalysts (Graduate school of Engineering, Tohoku University) TAKADA, Kana; TAMURA, Masazumi; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi  
**2G4-46** Performance and mechanism of gas-phase total hydrogenation of furfural over silica-supported nickel nanoparticle catalyst (Grad. Sch. Eng., Tohoku Univ.) OYA, Shin-ichi; NAKAZAWA, Hiroya; YAKAGAWA, Yoshinao; TOMISHIGE, Keiichi  
**2G4-47** Selective hydrogenation of unsaturated aldehydes to unsaturated alcohols over metal oxide modified Ir/SiO<sub>2</sub> Catalyst (School of Engineering, Tohoku University) TOKONAMI, Kensuke; TAMURA, Masazumi; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi

### Sunday, March 24, AM

Chair: MURATSUGU, Satoshi (9 : 00 ~9 : 50)

- \* 8:50-9:00: interval for laptop PC connection.(3G4-01, 3G4-02, 3G4-03, 3G4-04, 3G4-05)

- 3G4-01** Preparation of Pd-GO Composite and Application to Suzuki-Miyaura Cross Coupling Reaction (Research Core for Interdisciplinary Sciences, Okayama University) YAMAMOTO, Shunichi; NISHINA, Yuta
- 3G4-02** Pd-Graphene Oxide Composites as Catalysts for Mizoroki-Heck Reaction (Research Core for Interdisciplinary Sciences, Okayama University) SAITO, Akinori; YAMAMOTO, Shunichi; NISHINA, Yuta
- 3G4-03** Pd-Graphene Oxide Composites for Chemoselective Catalytic Hydrogenation Derivatives(2) a Molecular Dynamics Examination (Research Core for Interdisciplinary Sciences, Okayama University) MORIMOTO, Naoki; YAMAMOTO, Shunichi; NISHINA, Yuta
- 3G4-04** Hydrogen production from formic acid decomposition catalyzed by palladium nanoparticles supported on ion exchange resins with basicity (Osaka Univ.) DOJO, Masahiro; MORI, Kohsuke; YAMASHITA, Hiromi
- 3G4-05** Preparation of a silica-supported Pd nanoparticle catalyst by reduction with alcohol and its catalytic dechlorination property (Natl Inst Adv Sci & Technol (AIST)) UKISU, Yuji

Chair: MORI, Kohsuke (10 : 00~11 : 10)

- \* 9:50-10:00: interval for laptop PC connection.(3G4-07, 3G4-08, 3G4-09, 3G4-11)
- 3G4-07<sup>#</sup>** Preparation of a molecularly imprinted Pd-complex catalyst for Suzuki coupling reaction (IMS) MAITY, Niladri; MURATSUGU, Satoshi; TADA, Mizuki
- 3G4-08** Preparation and selective Glucose oxidation for a Pt/Al<sub>2</sub>O<sub>3</sub> catalyst with a sugar binding site (IMS) WAKI, Minoru; MURATSUGU, Satoshi; TADA, Mizuki
- 3G4-09<sup>\*</sup>** Study on selective nitrile hydrogenation on oxide-supported Ru cluster catalysts (IMS) WANG, Fei; MURATSUGU, Satoshi; ISHIGURO, Nozomu; TADA, Mizuki
- 3G4-11** Young Scholar Lectures of CSJ Concerted Catalysis between Coinage Metal Nanoparticles and Inorganic Supports (Graduate School of Engineering Science, Osaka University) Mitsudome, Takato

Chair: TADA, Mizuki (11 : 20~11 : 50)

- \* 11:10-11:20: interval for laptop PC connection.(3G4-15, 3G4-16, 3G4-17)
- 3G4-15** Effects of sodium on active sites formation of zeolite-supported rhodium phosphide catalysts for hydrodesulfurization (Muroran Institute of Technology) SAWADA, Ayaka; KANDA, Yasuharu; SUGIOKA, Masatoshi; UEMICHI, Yoshio
- 3G4-16** Hydrothermal gasification of phenol water with novel carbon-supported Ru-modified Ni catalysts (Mie University) SATOH, Shunichi; HASHIMOTO, Tadanori; NASU, Hiroyuki; ISHIHARA, Atsushi
- 3G4-17** Hydrocracking of atmospheric residue using Curie point pyrolyzer (Fac. Eng., Mie Univ.) ISHIHARA, Atsushi; AMANO, Masayoshi; HASHIMOTO, Tadanori; NASU, Hiroyuki

## Sunday, March 24, PM

Chair: JITSUKAWA, Koichiro (13 : 00~13 : 30)

- \* 12:50-13:00: interval for laptop PC connection.(3G4-25)
- 3G4-25** CSJ Award for Young Chemists Design of Highly Functionalized Polyoxometalate-Based Catalysts (Sch. Eng., The Univ. of Tokyo) KAMATA, Keigo
- Chair: YAMAGUCHI, Kazuya (13 : 40~14 : 40)
- \* 13:30-13:40: interval for laptop PC connection.(3G4-29, 3G4-31, 3G4-32, 3G4-34)
- 3G4-29<sup>\*</sup>** Development of Supported Gold Nanoparticle Catalyst for Highly Efficient Carbonylation of Amines (Osaka Univ.) NOUJIMA, Akifumi; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi
- 3G4-31** Pd-catalyzed highly efficient oxygenation of unsaturated esters into keto esters using molecular oxygen as a sole oxidant (Osaka Univ.) YOSHIDA, Syuhei; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi
- 3G4-32<sup>#</sup>** Phenol synthesis by selective oxidation of benzene on Pt-based supported catalysts (The Univ. of Electro-Communications) WANG, Linsheng; YAMAMOTO, Sadaaki; WATANABE, Hikaru; HAYASHIZAKI, Kenichiro; NAGAMATSU, Shin-ichi; SASAKI, Takehiko; TADA, Mizuki; IWASAWA, Yasuhiro
- 3G4-34<sup>#</sup>** Pt-Au-Ag Porous Nanoparticles as Catalyst for Methanol Electro-oxidation Reaction (WPI-AIMR, Tohoku University) ZHAO, Ming; ASAO, Naoki; YAMAMOTO, Yoshinori

Chair: MITSUDOME, Takato (14 : 50~15 : 40)

- \* 14:40-14:50: interval for laptop PC connection.(3G4-36, 3G4-37, 3G4-39)
- 3G4-36** Synthesis of Nitriles via Manganese Oxide Promoted Oxidative Dehydrodesulfurization of Primary Thioamides (School of Engineering, The University of Tokyo) YAJIMA, Kazuhisa; YAMAGUCHI, Kazuya; MIZUNO, Noritaka
- 3G4-37<sup>\*</sup>** Oxidative Synthesis of Primary Amides from Alkylarenes with Manganese Oxides (School of Engineering, The University of Tokyo) YAMAGUCHI, Kazuya; WANG, Ye; MIZUNO, Noritaka
- 3G4-39<sup>\*</sup>** Chemo- and Regioselective Direct Hydroxylation of Arenes Catalyzed by a Divanadium-Substituted Polyoxometalate (School of Engineering, The

University of Tokyo) KAMATA, Keigo; YAMAURA, Taiyo; MIZUNO, Noritaka

Chair: OGURA, Masaru (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(3G4-42, 3G4-43, 3G4-44, 3G4-46, 3G4-47)
- 3G4-42** Microwave Effect on Catalytic Dehydrogenation of Ethylbenzene on Magnetite (Grad. Sch. Sci., Eng., Tokyo Tech) HANEISHI, Naoto; MOCHIZUKI, Dai; MAITANI, Masato; SUZUKI, Eiichi; WADA, Yuji
- 3G4-43** Formation of carbon-filled-zeolite/zeolite core/shell structure and its application for the microwave irradiation. (Grad. Sch. Sci., Eng., Tokyo Tech) SASAKI, Ryo; MOCHIZUKI, Dai; MAITANI, Masato; SUZUKI, Eiichi; WADA, Yuji
- 3G4-44<sup>#</sup>** CeO<sub>2</sub>-catalyzed dimethyl carbonate direct synthesis from CO<sub>2</sub> and methanol in combination with nitrile hydration (Grad. Sch. Eng., Tohoku Univ.) TAMURA, Masazumi; HONDA, Masayoshi; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi
- 3G4-46** Reaction pathways of ethanol to propene on a Se-modified In<sub>2</sub>O<sub>3</sub> catalyst (Chem. Res. Lab., Tokyo Tech) HIRAKAWA, Shota; MIZUNO, Shota; TANAKA, Masashi; IWAMOTO, Masakazu
- 3G4-47** Optimization and the mechanism of catalytic conversion of carbon dioxide into dimethyl carbonate using surface Lewis acid-base pairs over cerium oxides (Graduate School of Science, Chiba University) WATANABE, Kentaro; OKA, Kazuki; IZUMI, Yasuo

Chair: MAITANI, Masato (17 : 00~17 : 50)

- \* 16:50-17:00: interval for laptop PC connection.(3G4-49, 3G4-50, 3G4-51, 3G4-52, 3G4-53)
- 3G4-49** Application of Fe-beta zeolites as a hydrocarbon reformer trap material (IIS, The Univ. of Tokyo) MOMMA, Kiyofumi; OONISHI, Takeshi; OGURA, Masaru
- 3G4-50** Influence of reaction conditions upon catalytic hydrogenation of nitrate in water over a supported nickel catalyst (Graduate School of Environmental Science, Hokkaido Univ.; Research Faculty of Environmental Earth Science, Hokkaido Univ.) MARUYAMA, Tsubasa; HIRAYAMA, Jun; KAMIYA, Yuichi
- 3G4-51** Reaction mechanism of photocatalytic reduction of nitrate in water in the presence of Pt/SrTiO<sub>3</sub>:Rh and Sn-Pd/Al<sub>2</sub>O<sub>3</sub> under visible light irradiation. (Graduate School of Environmental Science, Hokkaido University/Graduate School of Engineering, Kyoto University Research Faculty of Environmental Earth Science, Hokkaido University) HIRAYAMA, Jun; ABE, Ryo; KAMIYA, Yuichi
- 3G4-52<sup>#</sup>** Decomposition of ammonium ion in water by catalytic ozonation using cobalt oxides (Graduate School of Environmental Science, Hokkaido Univ.; Research Faculty of Environmental Earth Science, Hokkaido Univ.) MAHARDIANI, Lina; KAMIYA, Yuichi
- 3G4-53** Direct Decomposition of NO over Cerium Oxide Doped Ba-Y<sub>2</sub>O<sub>3</sub> Catalyst (Nagoya Institute of Technology) DOI, Yasuyuki; HANEDA, Masaaki; OZAWA, Masakuni

## Room G5

PRISM HOUSE P111

## Catalysts and Catalysis

Friday, March 22, PM

Chair: KAMEGAWA, Takashi (13 : 00~14 : 00)

- \* 12:50-13:00: interval for laptop PC connection.(1G5-25, 1G5-26, 1G5-27, 1G5-28, 1G5-29, 1G5-30)
- 1G5-25** Photocatalytic dehydrogenation of tetrahydroquinolines (Kinki Univ.) SETO, Naoko; IMAURA, Kazuya; HASHIMOTO, Keiji; KOMINAMI, Hiroshi
- 1G5-26** Photooxidation of alcohols on tantalum oxide (Graduate School of Engineering, Kyoto University) NODA, Atsuhiko; OHNO, Yasuhiro; SHISHIDO, Tetsuya; TERAMURA, Kentaro; TANAKA, Tsunehiro
- 1G5-27** Additive effect of Mo into V<sub>2</sub>O<sub>5</sub>/SiO<sub>2</sub> on photocatalytic activity for epoxidation of propene (Graduate School of Engineering, Kyoto University) NISHIKORI, Tatsushi; TAKAYAMA, Yoshihisa; TERAMURA, Kentaro; SHISHIDO, Tetsuya; TANAKA, Tunehiro
- 1G5-28** Reductive deoxygenation of sulfoxides over titanium(IV) oxide photocatalyst (Kinki Univ.) NAKANISHI, Kousuke; YAMAMOTO, Satoshi; IMAMURA, Kazuya; HASHIMOTO, Keiji; KOMINAMI, Hiroshi
- 1G5-29** Secondary Amine Synthesis from Primary Amines and Alcohols by Titanium Dioxide Photocatalyst Loaded with Pd Nanoparticles (Osaka Univ.) FUJIWARA, Keisuke; SUGANO, Yoshitsune; SHIRAI, Yasuhiro; HIRAI, Takayuki
- 1G5-30<sup>#</sup>** Characterization of Cu species on TiO<sub>2</sub> photocatalysts fabricated by various methods (Univ. of Japan Chemical; Japan Chemical Co.Ltd) WANG, Zheng; TERAMURA, Kentaro; SHISHIDO, Tetsuya; TANAKA, Tsunehiro

Chair: MORIKAWA, Takeshi (14 : 10~15 : 10)

- \* 14:00-14:10: interval for laptop PC connection.(1G5-32, 1G5-33, 1G5-35, 1G5-36, 1G5-37)
- 1G5-32** Construction of Metal Nanoparticle-Semiconductor Nanocomposite Materials Using Biotin-avidin Interaction and Its Photocatalytic Applications (Osaka Univ.) HARADA, Hirofumi; ONODA, Akira; HAYASHI, Takashi
- 1G5-33** Fabrication of TiO<sub>2</sub> helical tubes and their photocatalytic activities. (Shinshu University) OI, Shin; SUZUKI, Masahiro; HANABUSA, Kenji
- 1G5-35** Promotional effects of bimetallic nanoparticles for TiO<sub>2</sub> photocatalyst (IMR, Tohoku Univ.) MIZUKOSHI, Yoshiteru; MASAHASHI, Naoya
- 1G5-36** Functional properties of superhydrophobic thin film photocatalysts prepared by composite coating of PTFE and TiO<sub>2</sub> (Osaka Univ.) KAMEGAWA, Takashi; IRIKAWA, Koichi; SHIMIZU, Yuki; YAMASHITA, Hiromi
- 1G5-37<sup>#</sup>** Selective local nitrogen doping in a TiO<sub>2</sub> electrode for enhanced photoelectrochemical properties in Ultraviolet light (National Institute for Materials Science) CAO, Junyu; KAKO, Tetsuya; YE, Jinhua

Chair: MORI, Kohsuke (15 : 20~16 : 20)

- \* 15:10-15:20: interval for laptop PC connection.(1G5-39, 1G5-40, 1G5-41, 1G5-42)
- 1G5-39** Study of the synthesis of zinc oxide to preferably expose (0001) face and the reactivity for CO photo-PROX (Chiba university) YOSHIDA, Yusuke; IZUMI, Yasuo
- 1G5-40** Visible Light Assisted NH<sub>3</sub>-SCR over Porphyrin-modified TiO<sub>2</sub> Photocatalysts (Graduate School of Engineering, Kyoto University) YAMAMOTO, Akira; MIZUNO, Yuto; TERAMURA, Kentaro; SHISHIDO, Tetsuya; TANAKA, Tsunehiro
- 1G5-41** Simultaneous removal of nitrite and ammonium ion in aqueous suspensions of titanium(IV) oxide photocatalyst (Kinki Univ.) KITSUI, Ken; TOYA, Kouta; ISHIYAMA, Yuki; GEKKOU, Hitoshi; HASHIMOTO, Keiji; KOMINAMI, Hiroshi
- 1G5-42** Young Scholar Lectures of CSJ Heterogeneous Photocatalysis under Controlled Reaction Environments (Graduate School of Engineering, Hiroshima University) Ide, Yusuke

Chair: SHISHIDO, Tetsuya (16 : 30~17 : 30)

- \* 16:20-16:30: interval for laptop PC connection.(1G5-46, 1G5-47, 1G5-48, 1G5-49, 1G5-50, 1G5-51)
- 1G5-46** Effects of water content on photoxidation of oxalic acid by a donor-acceptor linked dyad (Osaka Univ.; ALCA, JST) NOMURA, Akifumi; YAMADA, Yusuke; FUKUZUMI, Shunichi
- 1G5-47** Supporting Effect of Ruthenium Catalyst on Photocatalytic Hydrogen Evolution Using 2-Phenyl-4-(1-naphthyl)quinolinium Ion (Osaka Univ.; ALCA, JST) SHIKANO, Shinya; YAMADA, Yusuke; FUKUZUMI, Shunichi
- 1G5-48<sup>#</sup>** Size-dependent Mie's scattering effect on TiO<sub>2</sub> spheres towards efficient H<sub>2</sub> evolution (Hokkaido Univ.) XU, Hua; KAKO, Tetsuya; YE, Jinhua
- 1G5-49** Synthesis of photocatalyst by mechanochemical reaction of Ti<sub>2</sub>O<sub>3</sub> in water (Univ. of Okayama) UNO, Miyuki; NISHIMOTO, Shunsuke; KAMESHIMA, Yoshikazu; MIYAKE, Michihiro
- 1G5-50<sup>#</sup>** selective synthesis and photocatalytic properties of cubic and orthorhombic NaNbO<sub>3</sub> (Hokkaido University, National Institute for Materials Science) LI, Peng; KAKO, Tetsuya; YE, Jinhua
- 1G5-51** Preparation and Evaluation Photocatalytic Activity of Mesoporous Oxide Monolith (Tokyo Tech) NOGAWA, Takashi; ISOBE, Toshihiro; MATSUSHITA, Sachiko; NAKAJIMA, Akira

Chair: HORIUCHI, Yu (17 : 40~18 : 20)

- \* 17:30-17:40: interval for laptop PC connection.(1G5-53, 1G5-54, 1G5-55, 1G5-56)
- 1G5-53** FTIR/XAFS analyses of photocatalytic reaction mechanism of carbon dioxide into methanol using layered double hydroxides (Chiba University, Graduate School of Science) MORIKAWA, Motoharu; AHMED, Naveed; IZUMI, Yasuo
- 1G5-54** Screening of photocatalytic organic reactions using a micro-reactor (Chuo Univ.) SHIMAOKA, Kento; TAKEDA, Yuki; SHIMIZU, Ryo; KUWABARA, Kenta; KUWAHARA, Shota; KATAYAMA, Kenji
- 1G5-55** Photocatalytic activity of layered double hydroxides (LDHs) that consist of three kinds of metal ions (Faculty of Engineering, Kyoto University) ISHII, Hirotsugu; IGUCHI, Shoji; TERAMURA, Kentaro; SHISHIDO, Tetsuya; TANAKA, Tsunehiro
- 1G5-56** Photocatalytic reduction of carbon dioxide in water over various layered double hydroxide (LDH) (Graduate School of Engineering, Kyoto University) IGUCHI, Shoji; ISHII, Hirotsugu; TERAMURA, Kentaro; SHISHIDO, Tetsuya; TANAKA, Tsunehiro

### Saturday, March 23, AM

Chair: HOSOKAWA, Saburo (9 : 00 ~ 9 : 40)

- \* 8:50-9:00: interval for laptop PC connection.(2G5-01, 2G5-02, 2G5-03, 2G5-04)
- 2G5-01** Reduction of nitrate ions over InBO<sub>3</sub> photocatalysts under UV light irradiation (Faculty of Science, Tokyo Univ. of Science, Division of

Photocatalyst for Energy and Environment, Research Institute of Science and Technology, Tokyo Univ. of Science) KINUGASA, Tomoki; SHISHIDO, Wataru; JIA, Qingxin; IWASE, Akihiko; KUDO, Akihiko

- 2G5-02** Doping effect of metal ions into NaTaO<sub>3</sub> photocatalyst on CO<sub>2</sub> reduction using water as an electron source (Faculty of Science, Division of Photocatalyst for Energy and Environment, Research Institute of Science and Technology, Tokyo Univ. of Science) NAKANISHI, Haruka; TAKAYAMA, Tomoaki; IWASE, Akihiko; KUDO, Akihiko
- 2G5-03** Water Splitting and CO<sub>2</sub> Reduction over New Tantalate Photocatalysts with Tungsten-Bronze Structure (Faculty of Science, Tokyo University of Science, Division of Photocatalyst for Energy and Environment, Research Institute of Science and Technology, Tokyo University of Science) TAKAYAMA, Tomoaki; IWASE, Akihiko; KUDO, Akihiko
- 2G5-04<sup>#</sup>** Effect of flux treatment on photocatalytic activity of SrTiO<sub>3</sub> photocatalyst for water splitting (Faculty of Eng., The Univ. of Tokyo) HAM, Yeilin; MIYOSHI, Yoshiko; MORI, Hirotsugu; HISATOMI, Takashi; MINEGISHI, Tsutomu; SAKATA, Yoshihisa; DOMEN, Kazunari

Chair: SAKATA, Yoshihisa (9 : 50 ~ 10 : 50)

- \* 9:40-9:50: interval for laptop PC connection.(2G5-06, 2G5-07, 2G5-08, 2G5-09, 2G5-10, 2G5-11)
- 2G5-06** Sensitization of layered photocatalysts with wide band gap to visible light by a silver-based molten salt treatment (Faculty of Science, Tokyo Univ. of Science, Division of Photocatalyst for Energy and Environment, Research Institute of Science and Technology, Tokyo Univ. of Science) HORIE, Hirotsugu; IWASE, Akihiko; KUDO, Akihiko
- 2G5-07** Photoelectrochemical properties of BiVO<sub>4</sub> electrode prepared by a microwave-assisted chemical bath deposition method (Faculty of Science, Tokyo Univ. of Science, Division of Photocatalyst for Energy and Environment, Research Institute of Science and Technology, Tokyo Univ. of Science) JIA, Qingxin; SOMA, Kota; IWASE, Akihiko; KUDO, Akihiko
- 2G5-08** Effect of Surface Modification on Photoelectrochemical Properties of Rh-doped SrTiO<sub>3</sub> with p-type Semiconductor Property (Faculty of Science, Tokyo Univ. of Science, Division of Photocatalyst for Energy and Environment, Research Institute of Science and Technology, Tokyo Univ. of Science) IWASHINA, Katsuya; IWASE, Akihiko; KUDO, Akihiko
- 2G5-09** Photocatalytic properties under visible light irradiation of Ru-doped SrTiO<sub>3</sub> prepared by various synthesis methods (Faculty of Science, Tokyo Univ. of Science, Division of Photocatalyst for Energy and Environment, Research Institute of Science and Technology, Tokyo Univ. of Science) SUZUKI, Sho; AKIBA, Hiroki; SOMA, Kota; IWASHINA, Katsuya; IWASE, Akihiko; KUDO, Akihiko
- 2G5-10** Photocatalytic reactions over Ir-doped BaNb<sub>2</sub>O<sub>6</sub> under visible light irradiation (Faculty of Science, Tokyo Univ. of Science, Division of Photocatalyst for Energy and Environment, Research Institute of Science and Technology, Tokyo Univ. of Science) KATO, Takaaki; YAMAGUCHI, Masaharu; IWASE, Akihiko; KUDO, Akihiko
- 2G5-11** Photocatalytic properties of transition metal-doped K<sub>0.5</sub>La<sub>0.5</sub>TiO<sub>3</sub>-SrTiO<sub>3</sub> solid solution (Faculty of Science, Tokyo Univ. of Science, Division of Photocatalyst for Energy and Environment, Research Institute of Science and Technology, Tokyo Univ. of Science) HANAI, Minami; SOMA, Kota; AKIBA, Hiroki; IWASHINA, Katsuya; IWASE, Akihiko; KUDO, Akihiko

Chair: IWASE, Akihiko (11 : 00~12 : 00)

- \* 10:50-11:00: interval for laptop PC connection.(2G5-13, 2G5-14, 2G5-15, 2G5-16, 2G5-17, 2G5-18)
- 2G5-13** Photocatalytic H<sub>2</sub> Evolution by La- and Rh-codoped SrTiO<sub>3</sub> under Visible Light Irradiation (The Univ. of Tokyo) WANG, Qian; HISATOMI, Takashi; DOMEN, Kazunari
- 2G5-14** Studies on the effect of synthetic methods on the photocatalytic activity of oxysulfide La<sub>3</sub>Ti<sub>2</sub>MS<sub>5</sub>O<sub>7</sub> (M = Cu, Ag) (Univ. of Tokyo) NASU, Koki; MORIYA, Yosuke; DOMEN, Kazunari
- 2G5-15** Synthesis of LaTiO<sub>2</sub>N photocatalyst for water splitting using La<sub>2</sub>TiO<sub>5</sub> as a precursor and activity evaluation (Univ. of Tokyo) TAKAMURA, Toru; TAKASE, Masafumi; MATSUKAWA, Michinori; MORIYA, Yosuke; DOMEN, Kazunari
- 2G5-16** Physical properties and photocatalytic activity of Tantalum nitride prepared from Tantalum oxide with various particle size (Univ. of Tokyo; Dpt. of Chem. Sys. Eng.) KODERA, Masanori; MA, Susu Khine; HISATOMI, Takashi; DOMEN, Kazunari
- 2G5-17** Visible-light-driven water oxidation over W-modified BaTaO<sub>2</sub>N photocatalysts (Tokyo Institute of Tech.; The Univ. of Tokyo) MAEDA, Kazuhiko; DOMEN, Kazunari
- 2G5-18** Two-step water splitting on Ta<sub>3</sub>N<sub>5</sub> photocatalysts without electron mediator (The University of Tokyo) XIONG, Anke; HISATOMI, Takashi; DOMEN, Kazunari

### Saturday, March 23, PM

Chair: YAMAKATA, Akira (13 : 10~14 : 10)

- \* 13:00-13:10: interval for laptop PC connection.(2G5-26, 2G5-27, 2G5-28, 2G5-29, 2G5-30, 2G5-31)
- 2G5-26** Photocatalytic water oxidation over surface treated oxide semiconductor photocatalysts using I<sub>3</sub><sup>-</sup> ions as electron capture reagent (ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY

- (AIST) MISEKI, Yugo; FUJIYOSHI, Satoshi; SAYAMA, Kazuhiro  
**2G5-27<sup>#</sup>** Modification of alkaline-metal-salt-added Ta<sub>3</sub>N<sub>5</sub> with cocatalysts for Z-scheme water splitting application (Department of Engineering, The University of Tokyo) MA, Su Su Khine; HISATOMI, Takashi; MAEDA, Kazuhiko; MORIYA, Yosuke; DOMEN, Kazunari  
**2G5-28<sup>#</sup>** Stable water splitting using BaTaO<sub>2</sub>N electrode prepared by particle transfer method (The Univ. of Tokyo) CLUNE, Justin; XIONG, Anke; MINEGISHI, Tsutomu; DOMEN, Kazunari  
**2G5-29** Study on preparation of hematite nano-rod photoelectrode catalyzed by the template-method and its solar water splitting performance (Tokyo Univ. of Science) ISHIBASHI, Masataka; IMAI, Tetsuya; MACHIDA, Yuya; OSHIMA, Norihiko; OZAWA, Hironobu; ARAKAWA, Hironori  
**2G5-30** Study on Preparation of CuWO<sub>4</sub> Thin-Film Photoelectrode Catalyst by the CSD Method and its Solar Water Splitting Performance (Fac. Eng., Tokyo Univ. of Sci.) IZUTSU, Satomi; KINPARA, Hironari; YANAGI, Akihiro; OYAMA, Takeshi; OZAWA, Hironobu; ARAKAWA, Hironori  
**2G5-31<sup>#</sup>** Reduced TiO<sub>2</sub> Nanotube Arrays for Photoelectrochemical Water Splitting (National Institute for Materials Science) KANG, Qing; YE, Jinhua

Chair: HIGASHI, Masanobu (14 : 20~15 : 20)

- \* 14:10-14:20: interval for laptop PC connection.(2G5-33, 2G5-35, 2G5-36, 2G5-37, 2G5-38)  
**2G5-33<sup>#</sup>** p-CuO Photocatalyst for Efficient Solar Hydrogen Production (Kyushu Univ. IMCE; I2CNER) ZAHARAN, Zaki, N.; MOHAMED, Eman, A.; OHTA, Takehiro; NARUTA, Yoshinori  
**2G5-35** Water splitting over Cu cocatalyst loaded photocatalysts with layered structure (Faculty of Science, Tokyo University of Science, Division of Photocatalyst for Energy and Environment, Research Institute of Science and Technology, Tokyo University of Science) MIURA, Mariko; JIA, Qingxin; IWASE, Akihiko; KUDO, Akihiko  
**2G5-36** Z-schematic water splitting under visible light irradiation using Rh-doped SrTiO<sub>3</sub> without loading cocatalysts as a H<sub>2</sub>-evolving photocatalyst (Faculty of Science, Tokyo Univ. of Science, Division of Photocatalyst for Energy and Environment, Research Institute of Science and Technology, Tokyo Univ. of Science) SATO, Ko; TAKAYAMA, Tomoaki; IWASE, Akihiko; KUDO, Akihiko  
**2G5-37** Photoelectrochemical properties of La<sub>3</sub>Ti<sub>2</sub>CuS<sub>5</sub>O<sub>7</sub> electrode prepared by particle transfer method (Department of Engineering, Univ. of Tokyo) IWANAGA, Aki; MINEGISHI, Tsutomu; KUBOTA, Jun; DOMEN, Kazunari  
**2G5-38** Effects of surface modification with CdS layers on Cu-Ga-Se photocathodes prepared by the Particle Transfer Method (Univ. of Tokyo) KUMAGAI, Hiromu; MINEGISHI, Tsutomu; KUBOTA, Jun; DOMEN, Kazunari

Chair: MISEKI, Yugo (15 : 30~16 : 20)

- \* 15:20-15:30: interval for laptop PC connection.(2G5-40, 2G5-41, 2G5-42, 2G5-43, 2G5-44)  
**2G5-40** Charge Carrier Dynamics of LaTiO<sub>3</sub>N photocatalyst investigated by Femtosecond Diffuse Reflectance Spectroscopy (AIST, Univ. Tokyo, ARPChem) FURUBE, Akihiro; SINGH, Rupashree Balia; MATSUZAKI, Hiroyuki; MINEGISHI, Tsutomu; KUBOTA, Jun; DOMEN, Kazunari  
**2G5-41** Study on Preparation of Gallium Zinc Oxynitride Photocatalysts with Longer Absorption Edges for Overall Water Splitting (The Univ. of Tokyo) ASAI, Tomohiro; NAGASE, Hiroki; HISATOMI, Takashi; HARADA, Makoto; DOMEN, Kazunari  
**2G5-42** Physical properties and photocatalytic activity of gallium zinc oxynitride synthesized using a rotary kiln type furnace (Univ. of Tokyo) NAGASE, Hiroki; MORIYA, Yosuke; HISATOMI, Takashi; DOMEN, Kazunari  
**2G5-43** Preparation and photo-catalytic properties of carbon/nitrogen materials (Osaka Electro-Communication University; Kawaguchi Laboratory.) ISHIDA, Yuki; KAWAGUCHI, Masayuki  
**2G5-44** Development the photofuel cells consisting of Ag and TiO<sub>2</sub> to in situ obtain hydrogen (Chiba University) OGURA, Yuta; IZUMI, Yasuo

Chair: HISATOMI, Takashi (16 : 30~17 : 30)

- \* 16:20-16:30: interval for laptop PC connection.(2G5-46, 2G5-47, 2G5-48, 2G5-49, 2G5-50, 2G5-51)  
**2G5-46** Supported Au-Cu Bimetallic Alloy Nanoparticles as Catalyst for Aerobic Oxidation with an Activity Regenerated by Visible Light Irradiation (Osaka Univ.) SUGANO, Yoshitsune; TSUKAMOTO, Daijiro; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki  
**2G5-47** Formation of Au/TiO<sub>x</sub> photocatalyst by the W/O emulsion method stabilized with three-phase emulsification and its photocatalytic properties activated with irradiation of visible light (Kanagawa Univ. Project of Three-Phase Emulsification Technology) ISHIGAKI, Hayato; IMAI, Yoko; TAKAHASHI, Masashi; KOBAYASHI, Koichi; TOYODA, Kaori; TAJIMA, Kazuo  
**2G5-48** Spectroscopic detection of the reaction intermediates on the gold-nanoparticle-deposited titanium dioxide (Nagaoka univ. of technol.) SAITO, Hironobu; TAKANAMI, Ryota; NOSAKA, Yoshio  
**2G5-49** Photoinduced dechlorination of chlorinated aromatic compounds over gold-titanium oxide modified with co-catalysts under irradiation of visible light (Kinki Univ.) TANAKA, Atsuhiko; FUKU, Kojiro; NISHI, Takuya;

- HASHIMOTO, Keiji; KOMINAMI, Hiroshi  
**2G5-50** Selective photocatalytic oxidation of organic compounds over silver halides under irradiation of visible light (Kinki Univ.) NISHINO, Yuri; TANAKA, Atsuhiko; HASHIMOTO, Keiji; KOMINAMI, Hiroshi  
**2G5-51** Photocatalytic Reaction on Aliphane-Titania Composite Films (Shinshu Univ.; Nagano Pref. Inst. Tech.) ITO, Masaaki; NISHIKIORI, Hiromasa; TANAKA, Nobuaki; FUJII, Tsuneo

## Sunday, March 24, AM

Chair: YAMADA, Yusuke (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3G5-01, 3G5-02, 3G5-04, 3G5-05)  
**3G5-01** Hierarchical intercalation of Ir and Rh complexes into layered material and photocatalytic hydrogen production (Osaka Univ.) MORI, Kohsuke; AOYAMA, Junya; YAMASHITA, Hiromi  
**3G5-02<sup>#</sup>** Efficient Photochemical Water Splitting with Use of Dye/Catalyst Modified Electrodes (Kyushu Univ. IMCE; I2CNER) LIU, Bo; ZAHARAN, Zaki N.; OHTA, Takehiro; NARUTA, Yoshinori  
**3G5-04** Preparation of dyes and Pt-TiO<sub>2</sub> composite material by utilization of sulfocalixarene as a linker and its photocatalytic activity in the hydrogen production (Osaka Univ.) MATSUURA, Sachiyo; KAMEGAWA, Takashi; YAMASHITA, Hiromi  
**3G5-05\*** Design of Visible-Light-Responsive MOF Photocatalysts Utilizing Light-Harvesting Organic Linkers (Osaka Prefecture Univ.; Sumitomo Chemical Co.Ltd) HORIUCHI, Yu; TOYAO, Takashi; SAITO, Masakazu; MOCHIZUKI, Katsunori; IWATA, Masatoshi; HIGASHIMURA, Hideyuki; MATSUOKA, Masaya

Chair: SHIRAIISHI, Yasuhiro (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3G5-08, 3G5-10, 3G5-12, 3G5-13)  
**3G5-08\*** CO<sub>2</sub> photoreduction by Z-scheme reaction combining semiconductor/metal complex hybrid photocathode with SrTiO<sub>3</sub> photoanode (Toyota Central R&D Labs., Inc.) ARAI, Takeo; SATO, Shunsuke; KAJINO, Tsutomu; MORIKAWA, Takeshi  
**3G5-10\*** Highly efficient mononuclear iridium complex photocatalyst for CO<sub>2</sub> reduction under visible light (Toyota Central R&D Labs.,Inc) SATO, Shunsuke; MORIKAWA, Takeshi; KAJINO, Tsutomu  
**3G5-12<sup>#</sup>** Synthesis and characterization of a new heterojunction Ag<sub>3</sub>PO<sub>4</sub>/Cr-SrTiO<sub>3</sub> for photodegradation of gaseous organic pollutants under visible light irradiation (Hokkaido Univ.) GUO, Jianjun; OUYANG, Shuxin; YE, Jinhua; KAKO, Tetsuya  
**3G5-13** The effect of calcination on the photocatalytic properties of Rh<sup>3+</sup>/TiO<sub>2</sub> responding to visible light (Kinki Univ.) KITANO, Sho; HASHIMOTO, Keiji; KOMINAMI, Hiroshi

Chair: KOMINAMI, Hiroshi (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(3G5-15, 3G5-16, 3G5-18, 3G5-19)  
**3G5-15<sup>#</sup>** An ion-exchange route for the synthesis of hierarchical In<sub>2</sub>S<sub>3</sub>/ZnIn<sub>2</sub>S<sub>4</sub> bulk composite and its photocatalytic activity under visible-light irradiation (Hokkaido Univ.) MEI, Zongwei; YE, Jinhua; KAKO, Tetsuya  
**3G5-16\*** Superior Catalysis of Nickel-Iron and Nickel-Manganese Composite Oxides for Visible-light Driven Water oxidation (Graduate School of Engineering, Osaka University; ALCA, JST) HONG, Dachao; YAMADA, Yusuke; FUKUZUMI, Shunichi  
**3G5-18** Photocatalytic property of various transition metals doped SrTiO<sub>3</sub> (-Toyota Tech. Inst.) OKAWA, Masahiro; INUKAI, Manabu; KAMIYA, Itaru; YAMAKATA, Akira  
**3G5-19\*** Charge-Carrier Dynamics in Cu or Fe Loaded N-Doped TiO<sub>2</sub> Powder Studied by Femtosecond Diffuse Reflectance Spectroscopy (Toyota Central R&D Labs., Inc.) YAMANAKA, Ken-ichi; OHWAKI, Takeshi; MORIKAWA, Takeshi

## Sunday, March 24, PM

Chair: MOTOKURA, Ken (13 : 30~14 : 20)

- \* 13:20-13:30: interval for laptop PC connection.(3G5-28, 3G5-30, 3G5-32)  
**3G5-28\*** Catalytic activities and structures of a "magic number" Pt<sub>13</sub> cluster and Pt<sub>12</sub> cluster (Tokyo Institute of Technology, Chemical Resources Laboratory; ICU) KITAZAWA, Hirokazu; ALBRECHT, Ken; IMAOKA, Takane; CHUN, Wang Jac; YAMAMOTO, Kimihisa  
**3G5-30\*** Size-dependent electronic and catalytic properties of polyamine dendrimer encapsulated subnanometer Pd clusters (Osaka Univ.) KIBATA, Takayuki; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi  
**3G5-32** S-Acylation of thiols with carboxylic acids or esters over solid acid catalysts (Saitama University; RIKEN) YAMAZAKI, Hitomi; KUDO, Kentaro; NAGASHIMA, Sayoko; KAMIGUCHI, Satoshi; CHIHARA, Teiji  
 Chair: NAGASHIMA, Sayoko (14 : 30~15 : 10)  
 \* 14:20-14:30: interval for laptop PC connection.(3G5-34, 3G5-35, 3G5-36)  
**3G5-34** Size-dependent Lewis Acid Catalysis of Yb(III)-based Porous Coordination Polymer (iCeMS, Kyoto Univ.) KIYONAGA, Tomokazu;

HIGUCHI, Masakazu; KITAGAWA, Susumu

- 3G5-35** Reverse Water Gas Reaction Catalyzed by Anionic Ru Mononuclear Carbonyl Complex (National Institute of Advanced Industrial Science and Technology (AIST)) TSUCHIYA, Kazuyoshi; TOMINAGA, Ken-ichi
- 3G5-36\*** Reductive Transformation of Carbon Dioxide Using Cu-Diphosphine Complex Catalysts with Hydrosilanes (Tokyo Institute of Technology) MOTOKURA, Ken; KASHIWAME, Daiki; TAKAHASHI, Naoki; MIYAJI, Akimitsu; BABA, Toshihide

Chair: HARA, Takayoshi (15 : 20~16 : 20)

\* 15:10-15:20: interval for laptop PC connection.(3G5-39, 3G5-40, 3G5-41, 3G5-43, 3G5-44)

- 3G5-39** Creation of a Silica-Supported Monomeric Vanadium(V) Catalyst for 1,3-Isomerization of Allylic Alcohols (Osaka Univ.) IKEDA, Satoshi; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi
- 3G5-40** Castro-Stephens Reactions by Copper-silica Mixed Catalysis (Chem. Res. Lab., Tokyo Tech) USUI, Takashi; ISHITANI, Haruro; IWAMOTO, Masakazu
- 3G5-41\*** Development of Efficient Oxidative Cross-Coupling and Hydration Systems by Simple Solid Catalysts (School of Engineering, The University of Tokyo) JIN, Xiongjie; YAMAGUCHI, Kazuya; MIZUNO, Noritaka
- 3G5-43** Reaction between Carbon Dioxide and o-phenylenediamine and its derivatives catalyzed by ceria (Univ. of Tokyo) SASAKI, Takehiko; PANDIT, Palash
- 3G5-44** Hydroalkoxylation of conjugated olefins over CeO<sub>2</sub>/Nitrile cocatalyst (School of Engineering, Tohoku University) KISHI, Ryota; TAMURA, Masazumi; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi

Chair: SASAKI, Takehiko (16 : 30~17 : 30)

\* 16:20-16:30: interval for laptop PC connection.(3G5-46, 3G5-47, 3G5-48, 3G5-49, 3G5-50)

- 3G5-46** Nanoporous Gold-Catalyzed Hydrosilylation of Alkyne (Graduate School of Science, Tohoku University; WPI Advanced Institute for Materials Research, Tohoku University;) ISHIKAWA, Yoshifumi; ASAO, Naoki; YAMAMOTO, Yoshinori
- 3G5-47** Acetalization Reaction Mechanism of Benzaldehyde by a Novel Pd-Ag Catalyst. (Osaka Prefecture University) NITTA, Ryoichi; SATO, Masaaki
- 3G5-48** Amination of propylene glycol with aqueous ammonia over rhodium-based catalysts (Grad. Sch. Eng., Tohoku Univ.) TAKANASHI, Tsukasa; TAMURA, Masazumi; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi
- 3G5-49** Synergistic catalysis of a Pd complex and tertiary amine for allylation of nucleophiles (Tokyo Institute of Technology) NODA, Hiroto; MOTOKURA, Ken; MIYAJI, Akimitsu; BABA, Toshihide
- 3G5-50\*** Carbon-Carbon Bond-Forming Reactions Catalyzed by Anionic Rh Hydroxide Complex Intercalated Ni-Zn Hydroxy Double Salt (Graduate School of Engineering, Chiba University) HARA, Takayoshi; FUJITA, Nozomi; ICHIKUNI, Nobuyuki; SHIMAZU, Shogo

Chair: TAMURA, Masazumi (17 : 40~18 : 20)

\* 17:30-17:40: interval for laptop PC connection.(3G5-53, 3G5-54, 3G5-56)

- 3G5-53** Rhodium Acetate/Base-Catalyzed N-Silylation of Indole Derivatives with Hydrosilanes (School of Engineering, The University of Tokyo) ITAGAKI, Shintaro; KAMATA, Keigo; YAMAGUCHI, Kazuya; MIZUNO, Noritaka
- 3G5-54\*** Intramolecular cyclization within the nanocavity of poly(propylene imine) dendrimer catalyst (Osaka Univ.) MAENO, Zen; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi
- 3G5-56** Development of one-pot catalytic system for unsaturated nitriles from acetals using solid acid and polyamine dendrimer (Osaka Univ.) TSUYUSAKI, Takahiro; KIBATA, Takayuki; MAENO, Zen; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro; KANEDA, Kiyotomi

## Room G6

PRISM HOUSE P112

### Physical Chemistry -Structure-

Friday, March 22, AM

Chair: ISHIKAWA, Haruto (9 : 30 ~10 : 20)

\* 9:20-9:30: interval for laptop PC connection.(1G6-04, 1G6-05, 1G6-06, 1G6-07)

- 1G6-04** Structural analysis of an EF hand motif by FTIR spectroscopy (Tokyo Med. Dent. Univ., AIST, Univ. Tokyo) NARA, Masayuki; MORII, Hisayuki; TANOKURA, Masaru
- 1G6-05** Conformational stability in para-substituted selenoanisoles studied by Raman spectroscopy and quantum chemical calculations (The Univ. of Electro-

Communications) KOBAYASHI, Noriaki; YAMAKITA, Yoshihiro; HAYASHI, Naoto

- 1G6-06** UV-Induced Formation and Decomposition of 5-Membered Ring Ketene Compounds Produced from 3-Chlorosalicylic Acid (Tokyo Univ. of Agriculture and Technology) MIYAGAWA, Masaya; IIZUMI, Shota; AKAI, Nobuyuki; NAKATA, Munetaka
- 1G6-07\*** Detection of Molecular Chirality by Induced Resonance Raman Optical Activity (Kwansei Gakuin Univ.; IOCB(Czech)) YAMAMOTO, Shigeki; BOUR, Petr; OZAKI, Yukihiko

Chair: YAMAGUCHI, Shoichi (10 : 30~11 : 20)

\* 10:20-10:30: interval for laptop PC connection.(1G6-10, 1G6-11, 1G6-12, 1G6-14)

- 1G6-10** tip-enhanced Raman spectroscopic study of the epitaxial graphene grown on 4H-SiC(0001) C-face and Si-face (Kwansei Gakuin Univ.) SUZUKI, Toshiaki; MINAMI, Satoshi; KUTUMA, Yasunori; ASHIDA, Koji; KANEKO, Tadaaki; OZAKI, Yukihiko
- 1G6-11** The high-sensitive detection of myoglobin derivatives by using surface-enhanced Raman spectroscopy (SERS) (Kwansei Gakuin Univ.) EGASHIRA, Masatoshi; SUZUKI, Toshiaki; OZAKI, Yukihiko
- 1G6-12\*** Surface-Enhanced Raman Scattering measurement at the Strong-Coupling regime (Hokkaido Univ.) NAGASAWA, Fumika; TAKASE, Mai; MURAKOSHI, Kei
- 1G6-14** In-situ SERS observation of small number molecules under electrochemical potential control (Hokkaido Univ.) YONEZAWA, Yuko; NAGASAWA, Fumika; MURAKOSHI, Kei

Chair: TAHARA, Tahei (11 : 30~12 : 30)

\* 11:20-11:30: interval for laptop PC connection.(1G6-16)

- 1G6-16 CSJ Award for Creative Works** Watching Protein Dynamics by Time-Resolved Resonance Raman Spectroscopy (Grad. Sch. Sci., Osaka Univ.) MIZUTANI, Yasuhisa

### Friday, March 22, PM

Chair: KIM, Yousoo (13 : 40~14 : 40)

\* 13:30-13:40: interval for laptop PC connection.(1G6-29, 1G6-30, 1G6-31, 1G6-32, 1G6-33)

- 1G6-29** Observation of local electronic states of acridine molecules adsorbed graphite surface. (Univ. of Tsukuba) MORITO, Yujiro; IWATAKE, Keigo; AKIBA, Chisato; CHANG, Chawen; NABAE, Yuta; KAKIMOTO, Masaaki; KONDO, Takahiro; NAKAMURA, Junji
- 1G6-30** Adsorption properties of Ammonia on the defect induced graphite surface. (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) SHIBUYA, Riku; SAKURAI, Masakataka; KAWARAI, Keiichi; SAITO, Yoshihiko; USHIGOME, Daiki; SHIKANO, Taishi; KONDO, Takahiro; NAKAMURA, Junji
- 1G6-31** Impact of spatial configuration of molecules on the image potential state of PbPc/HOPG surface (Graduate School of Science, Osaka Univ.) KAWAKITA, Noriaki; YAMAMOTO, Ryota; TAGUCHI, Masataka; YAMADA, Takashi; KATO, Hiroyuki; MUNAKATA, Toshiaki
- 1G6-32** Two-Photon Photoemission Spectroscopy of Rubrene Single Crystal (Graduate School of Science, Osaka Univ.) TERAWAKI, Rie; UEBA, Takahiro; PARK, Juyeon; KITAGAWA, Yasutaka; OKUMURA, Mitsutaka; YAMADA, Takashi; KATO, Hiroyuki; MUNAKATA, Toshiaki
- 1G6-33\*** Probing delocalization of holes at organic semiconductor-insulator interfaces with charge modulation spectroscopy (Kyoto Univ.) MIYATA, Kiyoshi; TANAKA, Shunsuke; SUGIMOTO, Toshiaki; WATANABE, Kazuya; MIWA, Kazumoto; UEMURA, Takafumi; KANG, Myeong Jin; TAKIMIYA, Kazuo; KUWABARA, Hirokazu; HAMADA, Masahiro; TAKEYA, Jun-ichi; MATSUMOTO, Yoshiyasu

Chair: KONDO, Takahiro (14 : 50~15 : 50)

\* 14:40-14:50: interval for laptop PC connection.(1G6-36, 1G6-37, 1G6-38, 1G6-39, 1G6-41)

- 1G6-36** Dynamics of hydrogen on Ni<sub>2</sub>P(0001) surface (CRC, Hokkaido Univ.) ARIGA, Hiroko; MIYAMOTO, Takeshi; HERNANDEZ, Alvin; KINOSHITA, Kumiko; TAKAKUSAGI, Satoru; OTANI, Shigeki; OYAMA, Ted; ASAKURA, Kiyotaka
- 1G6-37** Angle-resolved photoemission study of Ni<sub>2</sub>P(10-10): Change in the surface electronic structure induced by P segregation (Rikkyo Univ.; Tokyo Inst. Technol.) EDAMOTO, Kazuyuki; IMANISHI, Saori; KAKEFU, Youhei; OZAWA, Ken-ichi
- 1G6-38** Relative stabilities of crystal faces of anatase (TiO<sub>2</sub>) compared by AFM observation of etch pits formed in oxidative environment (Chuo University, Japan) OKAWA, Yohei; SHINDO, Hitoshi; SAITO, Syunichiro
- 1G6-39\*** A photoelectron spectroscopic study on electronic structure and charge transfer of chemically-modified SrTiO<sub>3</sub>(100) surfaces (ISSP, Univ. of Tokyo) HARADA, Yosuke; KAWASAKI, Seiji; YOSHIMOTO, Shinya; MUKAI, Kozo; SHIMIZU, Sumera; KOITAYA, Takanori; SHIOZAWA, Yuichiro; FUJIMAKI, Kazutaka; LIPPMAA, Mikko; YOSHINOBU, Jun
- 1G6-41** Measurements of the electronic state dynamics of the photocatalyst BaLa<sub>4</sub>Ti<sub>4</sub>O<sub>15</sub> for water splitting studied with diffuse reflectance transient absorption spectroscopy (Graduate School of Science, Kyoto Univ.) YABUTA, Mitsunori; TAKAYAMA, Tomoaki; WATANABE, Kazuya;

KUDO, Akihiko; SUGIMOTO, Toshiki; MATSUMOTO, Yoshiyasu

Chair: KATO, Hiroyuki (16 : 00~17 : 00)

- \* 15:50-16:00: interval for laptop PC connection.(1G6-43, 1G6-45, 1G6-46, 1G6-48)
- 1G6-43\*** Comparative study of phenol and thiophenol adsorption on Cu(110) (Graduate School of Science, Kyoto University, Japan) KITAGUCHI, Yuya; HABUKA, Satoru; MITSUI, Takuya; HATTA, Shinichirou; OKUYAMA, Hiroshi; ARUGA, Tetsuya
- 1G6-45\*** Angular Distribution of Desorbing CO<sub>2</sub> in Decomposition of Formate on Cu(111) on Cu(110) (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) QUAN, Jiamei; SAKURAI, Masataka; MATSUSHIMA, Tatsuo; KONDO, Takahiro; NAKAMURA, Junji
- 1G6-46\*** Adsorption and dissociation of CO<sub>2</sub> on Cu(997) at low temperature (ISSP, Univ. of Tokyo) KOITAYA, Takanori; MUKAI, Kozo; YOSHIMOTO, Shinya; YOSHINOBU, Jun
- 1G6-48** Vibrational dynamics of cyclohexane on Cu(100) under photo-stimulated desorption condition (Kyoto Univ.) MIYAMOTO, Yoshiki; INOUE, Ken-ichi; SUGIMOTO, Toshiki; WATANABE, Kazuya; MATSUMOTO, Yoshiyasu

Chair: ONISHI, Hiroshi (17 : 10~18 : 00)

- \* 17:00-17:10: interval for laptop PC connection.(1G6-50, 1G6-52, 1G6-54)
- 1G6-50\*** Precursor states of CO on Cu(100) in photo-stimulated desorption and diffusion processes (Kyoto Univ.) INOUE, Ken-ichi; MIYAMOTO, Yoshiki; WATANABE, Kazuya; SUGIMOTO, Toshiki; MATSUMOTO, Yoshiyasu
- 1G6-52\*\*** Quantitative Estimate of the pH at Neutral Lipid/Water Interfaces Revealed by Heterodyne-Detected Electronic Sum Frequency Generation (RIKEN) KUNDU, Achintya; YAMAGUCHI, Shoichi; TAHARA, Tahei
- 1G6-54** Heterodyne-Detected Sum Frequency Generation Spectroscopy for Buried Interfaces (RIKEN) YAMAGUCHI, Shoichi; TAHARA, Tahei

### Saturday, March 23, AM

Chair: OGURA, Takashi (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(2G6-01, 2G6-02, 2G6-03, 2G6-05)
- 2G6-01** Surface-enhanced Raman scattering of 4,4'-bipyridine on SERS substrate made by near-field photo reduction (Kwansei Gakuin Univ.) IKEMACHI, Takuya; KITAHAMA, Yasutaka; SUZUKI, Toshiaki; OZAKI, Yukihiko
- 2G6-02** Change of surface-enhanced Raman scattering spectra by washing the near-field photo reduced silver substrate (Kwansei Gakuin Univ.) KITAHAMA, Yasutaka; IKEMACHI, Takuya; SUZUKI, Toshiaki; OZAKI, Yukihiko
- 2G6-03\*** Time-resolved Impulsive Raman Study on Ultrafast Structural Dynamics of Photoactive Yellow Protein in the Excited state (Molecular Spectroscopy Laboratory, RIKEN) KURAMOCHI, Hikaru; TAKEUCHI, Satoshi; KAMIKUBO, Hironari; KATAOKA, Mikio; TAHARA, Tahei
- 2G6-05\*** Time-resolved near-IR stimulated Raman spectra of  $\beta$ -carotene in S<sub>2</sub> state (Gakushuin Univ.) TAKAYA, Tomohisa; IWATA, Koichi

Chair: IWATA, Koichi (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(2G6-08, 2G6-09, 2G6-10, 2G6-11, 2G6-12, 2G6-13)
- 2G6-08** Chromophore structure in fluorescent protein Dronpa observed by Resonance Raman spectroscopy (Osaka University) HIGASHINO, Asuka; MIZUNO, Misao; MIZUTANI, Yasuhisa
- 2G6-09** Oxygen-specific Structural Change of Oxygen Sensor Protein FixL Revealed by Ultraviolet Resonance Raman Spectroscopy (Osaka University) YAMAWAKI, Takeo; ISHIKAWA, Haruto; MIZUNO, Misao; NAKAMURA, Hiroo; SHIRO, Yoshitsugu; MIZUTANI, Yasuhisa
- 2G6-10** Chromophore Structures of Photocycle Intermediates in Gloeobacter Rhodopsin: A Resonance Raman Study (Osaka University) NAKAJIMA, Ayumi; MIZUNO, Misao; KANDORI, Hideki; MIZUTANI, Yasuhisa
- 2G6-11** Regulation Mechanism in Iron Regulatory Proteins by Specific Heme Binding (Div. of Chem., Dep. of Sci., Hokkaido Univ.) OGURA, Mariko; WATANABE, Yuta; UCHIDA, Takeshi; IWAI, Kazuhiro; ISHIMORI, Koichiro
- 2G6-12** Resonance Raman Study on Indoleamine 2,3-Dioxygenase: Control of Reactivity by Substrate-Binding (Grad. Schl. Life Sci., U. Hyogo, RIKEN SPring-8 Center) YANAGISAWA, Sachiko; HARA, Masayuki; SUGIMOTO, Hiroshi; SHIRO, Yoshitsugu; OGURA, Takashi
- 2G6-13** Resonance Raman Study on FMN in Mitochondrial Respiratory Complex I (Univ. of Hyogo) HIKITA, Masahide; ITOH-SHINZAWA, Kyoko; MORIYAMA, Masakazu; OGURA, Takashi; KIHARA, Kiyohito; YOSHIKAWA, Shinya

Chair: BABA, Masaaki (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(2G6-15, 2G6-16, 2G6-18, 2G6-19)
- 2G6-15** Detection of complex formation through selective electronic state observation: an X-ray emission study of iron amino acid complex (RIKEN/SPring-8) TOKUSHIMA, Takashi; HORIKAWA, Yuka; SHIN, Shik

- 2G6-16\*** Study of NH-OC hydrogen bonded structures of pyrrole solvated clusters (Univ. of Hyogo) MATSUMOTO, Yoshiteru; MURAKAMI, Sunao; HONMA, Kenji
- 2G6-18** IR spectroscopy of pyrrole binary clusters:  $\pi$  hydrogen-bonded structures by 3-dimensional acceptor (Univ. of Hyogo) MURAKAMI, Sunao; MATSUMOTO, Yoshiteru; HONMA, Kenji
- 2G6-19\*** Comparison of infrared spectra of organic crystals having double-hydrogen bond networks with those of molecular clusters (Fac.Sci., Kyushu Univ.; Inst. Mat. Chem. and Eng., Kyushu Univ.; Chiba Inst. Tech.; BASE, Tokyo Univ. Agri. and Tech.) OYAMA, Kazuko; GOTO, Kenta; SHINMYOZU, Teruo; YAMAMOTO, Norifumi; IIZUMI, Shota; NAKATA, Munetaka; SEKIYA, Hiroshi

### Saturday, March 23, PM

Chair: OKUMURA, Mitutaka (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(2G6-28, 2G6-29, 2G6-31, 2G6-32)
- 2G6-28** Excited States Study of Open-shell Singlet  $\pi$ -Conjugated Condensed Ring Hydrocarbons Based on Multireference Perturbation Theory (Osaka University) ITO, Soichi; MINAMI, Takuya; NAKANO, Masayoshi
- 2G6-29\*** Signature of singlet open-shell character on excitation energies: Analysis based on a theoretical model and result for polyacenes (Osaka University) MINAMI, Takuya; ITO, Soichi; NAKANO, Masayoshi
- 2G6-31** Study of Assignment of the Absorption bands for the liquid benzene and mono-substituted benzene by using far-ultraviolet spectroscopy and quantumchemical calculations (Kwansei Gakuin Univ.) UEMATSU, Yuuki; MORISAWA, Yuusuke; OZAKI, Yukihiko; YASUNAGA, Manaka
- 2G6-32\*** Study of Surface Structure of the Adhesive Polymers by using Attenuated Total Reflection Spectroscopy in the Far-Ultraviolet Region (Kinki Univ., Tetra Pak Inc., Kwansei Gakuin Univ. Kobe Univ. Kurabo) MORISAWA, Yusuke; NAKAYAMA, Atsushi; ONO, Kazuya; TANIMURA, Erika; SATO, Harumi; KARIYAMA, Naomi; HIGASHI, Noboru; OZAKI, Yukihiko

Chair: YABUSHITA, Satoshi (16 : 50~17 : 30)

- \* 16:40-16:50: interval for laptop PC connection.(2G6-48, 2G6-49, 2G6-50)
- 2G6-48** Theoretical study on the correlation between diradical characters and third-order nonlinear optical properties of heterodinuclear transition-metal systems involving Cr atoms (Osaka University) YAMADA, Taishi; INOUE, Yuda; SHIGETA, Yasuteru; NAKANO, Masayoshi
- 2G6-49** Theoretical study on the diradical character and third-order nonlinear optical properties of cyclic thiazyl radical compounds (Osaka University) MATSUI, Hiroshi; FUKUDA, Kotaro; KISHI, Ryohei; SHIGETA, Yasuteru; NAKANO, Masayoshi
- 2G6-50\*** Theoretical study on the diradical character dependence of the third-order nonlinear optical properties of asymmetric open-shell singlet molecules (Osaka University) NAKANO, Masayoshi

### Sunday, March 24, AM

Chair: KAWAKAMI, Takashi (9 : 00 ~9 : 50)

- \* 8:50-9:00: interval for laptop PC connection.(3G6-01, 3G6-02, 3G6-04)
- 3G6-01** Theoretical study on the singlet open-shell character and the nonlinear optical properties of the one-dimensional fused-ring systems composed of five- and six-membered rings (Osaka University; University of Namur) FUKUDA, Kotaro; CHAMPAGNE, Benoit; NAKANO, Masayoshi
- 3G6-02\*** Theoretical study on the electronic structure of the ground and excited states and optical response properties of rylene and anthene (Graduate school of engineering science, Osaka University, AIST, Graduate school of science, Osaka University) KISHI, Ryohei; KISHIMOTO, Shingo; MINAMIDE, Shu; MURATA, Yusuke; ITO, Soichi; FUKUDA, Kotaro; SHIGETA, Yasuteru; KAMADA, Kenji; OHTA, Koji; KUBO, Takashi; NAKANO, Masayoshi
- 3G6-04\*** A study of electronic state of liquid amide and nylon by using attenuated total reflection spectroscopy in far ultraviolet region (Kinki Univ. Kwansei Gakuin Univ.) MORISAWA, Yusuke; YASUNAGA, Manaka; EHARA, Masahiro; OZAKI, Yukihiko

Chair: ONDA, Ken (10 : 00~10 : 50)

- \* 9:50-10:00: interval for laptop PC connection.(3G6-07, 3G6-08, 3G6-09, 3G6-10)
- 3G6-07** Development of Pump-probe Photoelectron Spectrometer for Hydrated Electrons using a Noncollinear Optical Parametric Amplifier (Kyoto Univ.) HAYASHI, Masahiro; HORIO, Takuya; ADACHI, Shunsuke; SUZUKI, Tosinori
- 3G6-08** Development of a magnetic bottle time-of-flight photoelectron spectrometer and photoelectron spectroscopy of liquid samples (Kyoto Univ.) YAMAMOTO, Yoichi; SATO, Motoki; HORIO, Takuya; SUZUKI, Yoshiichi; SUZUKI, Toshinori
- 3G6-09** development of a transient absorption setup based on 5-fs noncollinear optical parametric amplifier (Kyoto Univ.) WATANABE, Yuya; NOZUE, Shuho; SUZUKI, Toshinori; ADACHI, Shunsuke
- 3G6-10\*** Multiphoton ionization of He irradiated by intense FEL pulses in EUV generated by amplification of laser high-order harmonics (The univ. of

Tokyo, RIKEN XFEL, RIKEN extreme photonics, JAEA) IWASAKI, Atsushi; OWADA, Shigeki; OGAMI, Seiji; SATO, Takahiro; TOGASHI, Takashi; TOGASHI, Takashi; MIDORIKAWA, Katsumi; AOYAMA, Makoto; YAMAKAWA, Koichi; MATSUBARA, Shinichi; OGAWA, Kanade; MATSUBARA, Yuichi; TOMIZAWA, Hiromitsu; MATSUBARA, Shinichi; NAGASONO, Mitsuru; YABASHI, Makina; ISHIKAWA, Tetsuya; YAMANOUCHI, Kaoru

Chair: MATSUMOTO, Yoshiteru (11 : 00~12 : 00)

\* 10:50-11:00: interval for laptop PC connection.(3G6-13, 3G6-15, 3G6-17)

**3G6-13\*** Jet Spectroscopy of Si Containing Free Radicals (Hiroshima City Univ.) FUKUSHIMA, Masaru; ISHIWATA, Takashi

**3G6-15\*** Ultrahigh-resolution Laser Spectroscopy and Magnetic Effect of the Nitrate Radical 662 nm Band (Kobe Univ.) TADA, Kohei; KASHIHARA, Wataru; KASAHARA, Shunji; BABA, Masaaki; ISHIWATA, Takashi; HIROTA, Eizi

**3G6-17\*\*** Gas phase spectroscopy of acetaminophen – Reassignments of conformers by electronic and IR spectra (Tokyo Tech) SOHN, Woon Yong; ISHIUCHI, Shun-ichi; FUJII, Masaaki

### Sunday, March 24, PM

Chair: FUKUSHIMA, Masaru (13 : 10~13 : 40)

\* 13:00-13:10: interval for laptop PC connection.(3G6-26, 3G6-28)

**3G6-26\*** Microwave Studies on 1,4-Pentadiene:  $\text{CH}_2=\text{CH}-\text{CH}_2-\text{CH}=\text{CH}_2$ ; Transformations among the three rotational isomers (Univ. Tokyo, Hongo; Grad. Univ. Adv. Studies; Kanagawa Inst. Tech.; Tokyo Inst. Tech.; Univ. Tokyo, Komaba; Gunma Univ.) HIROTA, Eizi; WATANABE, Ryo; KAWASHIMA, Yoshiyuki; MIZOGUCHI, Asao; KANAMORI, Hideto; NAKAJIMA, Masakazu; ENDO, Yasuki; SUMIYOSHI, Yoshihiro

**3G6-28** Fourier Transform Microwave Spectroscopy of the  $\text{N}_2$ -Ethylene Oxide Complex (II); Nuclear Quadrupole Coupling Constant of the Nitrogen Atoms (Kanagawa Inst. Tech.; Grad. Univ. Adv. Studies) KAWASHIMA, Yoshiyuki; HIROTA, Eizi

Chair: MIYAZAKI, Yuji (13 : 50~14 : 40)

\* 13:40-13:50: interval for laptop PC connection.(3G6-30, 3G6-31, 3G6-32, 3G6-33)

**3G6-30** Structure analyses of organic molecules by a new single crystal neutron diffractometer SENJU (CROSS; JAEA; Tohoku Univ.; Tsukuba Univ.; Showa Pharmaceutical Univ.) OHHARA, Takashi; KIYANAGI, Ryoji; KAWASAKI, Takuro; OIKAWA, Kenichi; TAMURA, Itaru; KANEKO, Koji; NAKAO, Akiko; HANASHIMA, Takayasu; MUNAKATA, Koji; KIMURA, Hiroyuki; LEE, Chang-hee; NODA, Yukio; TAKAHASHI, Miwako; KIYOTANI, Tamiko; OSHIMA, Kenichi; ARAI, Masatoshi

**3G6-31** Crystal Structures and Dielectric Properties of Hydrogen-Bonding Molecular Crystals of *o*-Fluoroaniline and Phosphoric Acid (Tohoku Univ.) YOSHII, Yuya; TAKEDA, Takashi; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki

**3G6-32** Structural origin of the thermal expansion anisotropy of  $\text{ABMO}_4$  (A = Ca, Sr; B = lanthanoid; M = Al, Ga) (Tokyo Tech) KAWAMURA, Keishi; OMOTO, Kazuki; FUJII, Kotaro; YASHIMA, Masatomo

**3G6-33\*** Ab Initio Crystal Structure Analysis of Novel Mixed Conductor  $\text{BaNdInO}_4$  (Tokyo Inst. of Tech.) FUJII, Kotaro; ESAKI, Yuichi; OMOTO, Kazuki; YASHIMA, Masatomo

Chair: TAKEGOSHI, Kiyonori (14 : 50~16 : 00)

\* 14:40-14:50: interval for laptop PC connection.(3G6-36, 3G6-37, 3G6-39, 3G6-40, 3G6-41, 3G6-42)

**3G6-36** Solid-state NMR of Adsorption of Trimethylphosphine Oxide on Silicalite (Nat. Inst. Adv. Ind. Sci. Tec.) HAYASHI, Shigenobu; JIMURA, Keiko; KOJIMA, Natsuko

**3G6-37\*** Analysis of molecular motion and proton conductivity of imidazolium succinate using solid-state NMR (Kanazawa Univ., Science) UMIYAMA, Tsuyoshi; OHASHI, Ryutaro; IDA, Tomonori; MIZUNO, Motohiro

**3G6-39** The molecular structure and double quantum transitions of the ground-state triplet nitroxide diradical with sizable ZFS in magnetically diluted single crystals as studied by CW/Pulsed ESR (Osaka City University) NAKAZAWA, Shigeaki; KAWAMORI, Moeko; SUGISAKI, Kenzi; TOYOTA, Kazuo; SHIOMI, Daisuke; SATO, Kazunobu; OMUKAI, Kosuke; FURUI, Takanori; KURATSU, Masato; SUZUKI, Syuichi; KOZAKI, Masatoshi; OKADA, Keiji; TAKUI, Takeji

**3G6-40** Nitrogen nuclear spin manipulation in isotope-labeled diphenylnitroxides by pulsed ELDOR spectroscopy (Graduate School of Science, Osaka City Univ.) TANAKA, Ayaka; SATO, Kazunobu; YOSHINO, Tomohiro; NISHIDA, Shinsuke; NAKAZAWA, Shigeaki; RAHIMI, Robabeh; TOYOTA, Kazuo; SHIOMI, Daisuke; MORITA, Yasushi; KITAGAWA, Masahiro; TAKUI, Takeji

**3G6-41** A thermally accessible excited quartet state of a  $\pi$ -delocalized trinitroxide radical as studied by CW/pulsed ESR spectroscopy (Graduate School of Science, Osaka City Univ.; FIRST) AYABE, Kazuki; SATO, Kazunobu; NAGATA, Atsuki; SUZUKI, Shuichi; KURATSU, Masato; SUGISAKI, Kenji; NAKAZAWA, Shigeaki; TOYOTA, Kazuo; SHIOMI, Daisuke; KOZAKI, Masatoshi; OKADA, Keiji; TAKUI, Takeji

**3G6-42** A study of electronic states of  $\pi$ -conjugated nitroxide radicals with quinoline skeletons by cw/pulsed ESR/ENDOR spectroscopy in solution (Graduate School of Science, Osaka City Univ.; Faculty of Science and Technology, Keio Univ.; FIRST) TANJI, Yusuke; YOSHINO, Tomohiro; SATO, Kazunobu; NAKAZAWA, Shigeaki; TOYOTA, Kazuo; SHIOMI, Daisuke; YOSHIOKA, Naoki; TAKUI, Takeji

## Room G7 PRISM HOUSE P113

### Physical Chemistry -Properties-

Friday, March 22, AM

Chair: NAKANO, Masayosi (10 : 30~11 : 00)

\* 10:20-10:30: interval for laptop PC connection.(1G7-10, 1G7-11, 1G7-12)

**1G7-10** Photochemical properties of phthalocyanine linked to quinone (Univ. of Tokyo) YOKOI, Takanori; ISHII, Kazuyuki

**1G7-11** On-Off switching of the thermochromic chiroptical behavior of pseudoisocyanine (Toho Univ., Fukuoka Univ. and Tokyo Univ. of Science) KURIHARA, Mai; HARADA, Takunori; KURODA, Reiko; MORIYAMA, Hiroshi

**1G7-12** Study on the electronic state of organic ferroelectric compound TTF-CA (KEK IMSS PF / CMRC) TAKAHASHI, Yukari; NAKAO, Hironori; KUMAI, Reiji; ISHIBASHI, Shouji; HORIUCHI, Sachio; KOHYAMA, Masanori; KOBAYASHI, Kensuke; YAKASAKI, Yuichi; OKAMOTO, Jun; SUDAYAMA, Takaaki; MURAKAMI, Youichi; TOKURA, Yoshinori

Chair: KISHII, Kazuyuki (11 : 10~12 : 10)

\* 11:00-11:10: interval for laptop PC connection.(1G7-14, 1G7-15, 1G7-16, 1G7-18)

**1G7-14** Soft ionized mass detection of impurity and dimeric substance ion from Alkyl substituted tetracene. (JNC Petrochemical Corp.) KOMATSU, Toshiki

**1G7-15\*** High-Efficiency Near-Infrared Organic Light-Emitting Devices Based on Iridium Complex with Negligible Efficiency Roll-off (Tsinghua University) TAO, Ran; QIAO, Juan

**1G7-16\*** Theoretical study of open-shell character and third-order nonlinear optical property originating from the antidot structure in graphene (Osaka University) YONEDA, Kyohei; FUKUDA, Kotaro; MATSUI, Hiroshi; KISHI, Ryohei; SHIGETA, Yasuteru; NAKANO, Masayoshi

**1G7-18\*** Development of microscale experiments in physical chemistry for chemical education for undergraduates (Chuo Univ.) KATAYAMA, Kenji; KUWAHARA, Shota; TSUCHIYA, Naomi; HORIE, Ryo

Friday, March 22, PM

Chair: FURUKAWA, Kou (13 : 20~14 : 20)

\* 13:10-13:20: interval for laptop PC connection.(1G7-27, 1G7-28, 1G7-29, 1G7-30, 1G7-31, 1G7-32)

**1G7-27** Iodine absorption properties of Cu(TCNQ) (Kobe Univ.) MIYAO, Koji; FUNABIKI, Akira; TAKAHASHI, Kazuyuki; MOCHIDA, Tomoyuki

**1G7-28** Metallic property at interface of donor and acceptor molecular crystals (Grad. School of Chem. Sci. and Eng., Hokkaido Univ.) TAKAYAMA, Katsuya; NAKAGAWA, Yuki; HASEGAWA, Hiroyuki; TAKAHASHI, Yukihiko; HARADA, Jyun; INABE, Tamotu

**1G7-29** Structures and physical properties of dication-TCNQ salts with regulated charge separation (Grad School of Chem. Sci. and Eng. Hokkaido Univ.) KUBOTA, Hiroyuki; TAKAHASHI, Yukihiko; HASEGAWA, Hiroyuki; HARADA, Jun; INABE, Tamotsu

**1G7-30** The crystal and electronic structure of charge transfer complexes with using Anthracene (Grad. School of Chem. Sci. and Eng., Hokkaido Univ.) YOKOKURA, Seiya; TAKAHASHI, Yukihiko; HASEGAWA, Hiroyuki; HARADA, Jun; INABE, Tamotsu

**1G7-31** Introduction of asymmetry into axially substituted iron phthalocyanine CT complexes (Kumamoto Univ.; Osaka Univ.) MATSUDA, Masaki; HAMADA, Yumi; NISHI, Miki; KANDA, Akinori; HANASAKI, Noriaki

**1G7-32** Magneto-transport properties of axially ligated chromium phthalocyanine conductors (Grad. School of Chem. Sci. and Eng., Hokkaido Univ.) TAKITA, Yusuke; TAKAHASHI, Yukihiko; HASEGAWA, Hiroyuki; HARADA, Jun; INABE, Tamotsu; KANDA, Akinori; HANASAKI, Noriaki

Chair: MORI, Hatsumi (14 : 30~15 : 30)

\* 14:20-14:30: interval for laptop PC connection.(1G7-34, 1G7-37, 1G7-38, 1G7-39)

**1G7-34** CSJ Award for Outstanding Young Women Chemists Study of electronic properties in organic salt-bridge compounds (National Institute for Materials Science (NIMS)) Kobayashi, Yuka

**1G7-37** Magnetic Resonance Investigation of Electronic States in TTF-CCO and TTP-CCO Derivatives (IMS, SOKENDAI, NIMS, Ehime Univ.) NAKAMURA, Toshikazu; FURUKAWA, Ko; TERAUCHI, Tsuyoshi;



- KOBAYASHI, Yuka; MISAKI, Yohji  
**1G7-38** Clarification of Photoconduction Mechanism in Covalent Organic Framework (COF) Materials by using Time-Resolved ESR Spectroscopy (Yokohama National Univ., Institute for Molecular Science, Graduate Univ. for Advanced Studies) TAKAHASHI, Seiya; JIN, Shangbin; FURUKAWA, Ko; JIANG, Donglin; NAKAMURA, Toshikazu  
**1G7-39** Spin Dynamics of Photoconductive COF Materials Including C60 Molecules within Pore (Institute for Molecular Science; Graduate Univ. for Advanced Studies; Yokohama National Univ.) FURUKAWA, Ko; CHEN, Long; JIANG, Donglin; TAKAHASHI, Seiya; NAKAMURA, Toshikazu

Chair: NAKAMURA, Toshikazu (15 : 40~16 : 40)

- \* 15:30-15:40: interval for laptop PC connection.(1G7-41, 1G7-42, 1G7-43, 1G7-44, 1G7-45, 1G7-46)  
**1G7-41** Crystal Structure and Properties of Hybrid Organic-Inorganic Layered Perovskites based on  $A_2MX_4$  (A = Organic cation, M = Pb, Cu and X = Cl, Br, I) (Grad School of Chem. Sci. and Eng. Hokkaido Univ.) LORENA, Giancarlo; TAKAHASHI, Yukihiko; HASEGAWA, Hiroyuki; HARADA, Jun; INABE, Tamotsu  
**1G7-42** Physical properties and device fabrication of organic-inorganic hybrid semiconductors (Faculty of Science) HASEGAWA, Hiroyuki; OSAKI, Tsuyoshi; KUDO, Yu; LORENA, Giancarlo; TAKAHASHI, Yukihiko; HARADA, Jun; INABE, Tamotsu  
**1G7-43** Crystal structure and magnetic order state of antiperovskite complexes :  $(TSF)_3[(Mo_6X_{14})X]$  (X = Cl, Br) (Meijo Univ. Fac. of Agric., Kyoto Univ. LTM Center, Nagoya Univ. Grad. Sch. of Sci., Nagoya Univ. Grad. Sch. of Eng., Univ. de Rennes 1) HIRAMATSU, Takaaki; YOSHIDA, Yukihiko; OTSUKA, Akihiro; YAMOCHI, Hideki; SHIMIZU, Yasuhiro; HATTORI, Yuma; KISHIDA, Hideo; ITO, Hiroshi; KIRAKCI, Kaplan; CORDIER, Stephane; PERRIN, Christiane; SAITO, Gunzi  
**1G7-44** Anomalous physical properties of  $\pi$ -d system mixed crystal  $(DIETSe)_2FeBr_4Cl_{4(1-x)}$  (Grad. Sch. of Sci., Kyoto Univ.; Dep. of Mater. Sci. and Tech., Nagaoka Univ. of Tech.; JST-CREST; NHMFL) KAWAGUCHI, Genta; MAESATO, Mitsuhiko; IMAKUBO, Tatsuhiro; KITAGAWA, Hiroshi; GRAF, David; KISWANDHI, Andhika; S. Brooks, James  
**1G7-45** Charge Disproportionation in the Cation Radical Salts of CLEDO-TTF with Head-to-Head Type Donor Stacking (LTM, Kyoto Univ.) ISHIKAWA, Manabu; NAKANO, Yoshiaki; URUICHI, Mikio; YAKUSHI, Kyuya; YAMOCHI, Hideki  
**1G7-46** Substituent Effect on Phase Transition Behavior of Organic Alloy,  $[(EDO)_{1-x}(CLEDO)_x]_2PF_6$  (LTM, Kyoto Univ.) HARAGUCHI, Tomoyuki; ISHIKAWA, Manabu; NAKANO, Yoshiaki; OTSUKA, Akihiro; URUICHI, Mikio; YAMOCHI, Hideki

Chair: MIYAZAKI, Akira (16 : 50~18 : 00)

- \* 16:40-16:50: interval for laptop PC connection.(1G7-48, 1G7-49, 1G7-50, 1G7-51, 1G7-52, 1G7-53, 1G7-54)  
**1G7-48** Structure and Properties of Ferrocenesulfonate and its ET Salt (Univ. of Hyogo) AKUTSU, Hiroki; OHNISHI, Ryo; YAMADA, Jun-ichi; NAKATSUJI, Shin'ichi  
**1G7-49** The magnetic susceptibility measurement of  $[Cu(dmdt)_2]$  and its pressure dependence of the lattice parameters and the resistivity. (Nihon Univ.) IDOBATA, Yuki; ZHOU, Biao; KOBAYASHI, Akiko; KOBAYASHI, Hayao; EBATA, Masaya; TOMITA, Takahiro; TAKAHASHI, Hiroki; CUI, Hengbo; KATO, Reizo  
**1G7-50** Metallization of a new single component molecular crystal  $[Ni(ddd)_2]$  under high pressure (RIKEN) CUI, Hengbo; TSUMURAYA, Takao; MIYAZAKI, Tsuyoshi; KATO, Reizo  
**1G7-51** Dielectric anomaly of porous crystal containing guest methanol molecules  $[La_2Cu_3(IDA)_2]nCH_3OH$ . (Nihon Univ.) IMAI, Yuji; ZHOU, Biao; KOBAYASHI, Akiko; KOBAYASHI, Hayao  
**1G7-52** Dielectric Properties of 1D Water Cluster Confined in Porous Crystal,  $[Co_3(2,4-pydc)_2(\mu_3-OH)_2]$  (Nihon Univ.) ZHOU, Biao; IMAI, Yuji; KOBAYASHI, Akiko; KOBAYASHI, Hayao  
**1G7-53** Proton conduction in a single crystal with one dimensional asymmetric nano-channel (Hokkaido Univ) MIYAZAKI, Kentaro; KAGEYAMA, Yoshiyuki; MARUTA, Goro; TAKEDA, Sadamu  
**1G7-54** Dielectric constants of chromic compound (Kumamoto Univ.) SHIMAYAMA, Koudai; HAYAMI, Shinnya

### Saturday, March 23, AM

Chair: AKUTSU, Hiroki (9 : 00 ~ 10 : 10)

- \* 8:50-9:00: interval for laptop PC connection.(2G7-01, 2G7-02, 2G7-04, 2G7-05, 2G7-06)  
**2G7-01** Synthesis and physical properties of TTF derivatives having two  $FeCp^*(dpe)CC$ -organoiron units (Univ. of Toyama; Univ. Rennes 1) MIYAZAKI, Akira; OGYU, Yoshiyuki; KUMAMOTO, Yuki; JUSTAUD, Frederic; MAKHOUL, Rim; LAPINTE, Claude; OUAHAB, Lahcene; GENDRON, Frederic; COSTUAS, Karine; HALET, Jean-francois  
**2G7-02\*** Oxidation behavior and various spin states on Ferrocene-tetrathiafulvalene hybrid molecules (RIKEN) KUSAMOTO, Tetsuro; KATO, Reizo; NISHIHARA, Hiroshi  
**2G7-04** Development of functional materials based on TTF-benzothiazole

- hybrid molecules having alkyne spacers (Grad. School of Sci., Osaka Pref. Univ.) TANIGUCHI, Shohei; OMAE, Rika; HAYASHI, Sadayoshi; TSUJIMOTO, Keiichi; FUJIWARA, Hideki  
**2G7-05** Synthesis, Structures, and Properties of Organic Conductors based on Catechol-fused TTF Derivatives with Selenium Atoms (The Institute for Solid State Physics, The University of Tokyo) UEDA, Akira; KAMO, Hiromichi; MORI, Hatsumi  
**2G7-06\*** Research of the correlation phenomenon between proton and electron in hydrogen-bonded charge transfer complexes based on pyridyl-substituted TTF derivatives. (ISSP, Univ. of Tokyo) LEE, Sangchul; UEDA, Akira; KIMATA, Motoi; TAJIMA, Hiroyuki; NAKAO, Akiko; KUMAI, Reiji; MURAKAMI, Youichi; MORI, Hatsumi

Chair: KAWAKAMI, Takashi (10 : 20~11 : 20)

- \* 10:10-10:20: interval for laptop PC connection.(2G7-09, 2G7-10, 2G7-11, 2G7-13)  
**2G7-09** Photochemical and magnetic properties of excited high-spin stable-radical with pentacene framework (Osaka City University) SHIMIZU, Akihiro; KAWANAKA, Yusuke; TEKI, Yoshio  
**2G7-10** Synthesis and physical properties of organic  $\pi$ -radical with pentacene framework (III) (Osaka City University) KAWANAKA, Yusuke; SHIMIZU, Akihiro; TEKI, Yoshio  
**2G7-11\*** Chiral aggregation and spin crossover property of iron(II) complex of the 1:1 condensation product of 4- formylimidazole and monoamine (Univ. of Kumamoto) NISHI, Koshiro; MATSUMOTO, Naohide; SUNATSUKI, Yukinari  
**2G7-13\*** Exchange-bias in monomer and dimer forms of a single molecule magnet  $[DyCu_2]$  (The University of Electro-Communications; Univ. Calcutta; Univ. Tohoku) IDA, Yumi; ISHIDA, Takayuki; GHOSH, Ashutosh; NOJIRI, Hiroyuki

Chair: TEKI, Yoshio (11 : 30~12 : 20)

- \* 11:20-11:30: interval for laptop PC connection.(2G7-16, 2G7-17, 2G7-18, 2G7-19, 2G7-20)  
**2G7-16** Structures and Magnetic Properties under High Pressure of a Spin Ladder Compound  $Cu_2(CO_3)_2(bpp)_2 \cdot 2.5(H_2O) \cdot 5.5$  (Graduate School of Science, Hiroshima University) ZHANG, Xiao; NAKANO, Yuki; NISHIHARA, Sadafumi; INOUE, Katsuya  
**2G7-17** Theoretical studies about conductivity of aromatic hydrocarbonsinvolving phenalenyl units (Grad. Sch. Sci., Osaka Univ.) KINOSHITA, Keiji; KAWAKAMI, Takashi; ITO, Akira; YOSHIMURA, Shohei; KITAGAWA, Yasutaka; YAMANAKA, Shusuke; OKUMURA, Mitsutaka  
**2G7-18** The application of the molecular orbital method to vibrational spectra of  $Pd(dmit)_2$  dimer. (Osaka Univ.) ITO, Akira; KINOSHITA, Keiji; YOSHIMURA, Syouhei; KAWAKAMI, Takashi; KITAGAWA, Yasutaka; YAMANAKA, Shusuke; OKUMURA, Mitsutaka  
**2G7-19** Theoretical calculations of zero-field splitting parameter D for single molecular magnets (Osaka Univ.) KAWAKAMI, Takashi; KINOSHITA, Keiji; ITO, Akira; YOSHIMURA, Shohei; KITAGAWA, Yasutaka; YAMANAKA, Shusuke; YAMAGUCHI, Kizashi; OKUMURA, Mitsutaka  
**2G7-20** Theoretical calculations of zero-field splitting parameter D for mononuclear complexes (Osaka Univ.) YOSHIMURA, Shohei; KINOSHITA, Keiji; ITO, Akira; KAWAKAMI, Takashi; KITAGAWA, Yasutaka; YAMANAKA, Shusuke; OKUMURA, Mitsutaka

### Saturday, March 23, PM

Chair: MAEDA, Yutaka (13 : 30~14 : 40)

- \* 13:20-13:30: interval for laptop PC connection.(2G7-28, 2G7-29, 2G7-30, 2G7-31, 2G7-33)  
**2G7-28** Structure and electronic state of  $[Lucigenin]C_{60}$  molecular fulleride salt (Toho Univ.; ISSP; Bruker AXS; Bruker BioSpin) YAMAMOTO, Shouhei; MORI, Hatsumi; HARA, Hideyuki; YOZA, Kenji; MORIYAMA, Hiroshi  
**2G7-29** Structure and electrical property of fulleride anion radical salts stabilized by diphenyl naphthyl dye cations. (Toho Univ.; ISSP; Bruker BioSpin; Bruker AXS) MORIYAMA, Hiroshi; FUJITA, Nami; MORI, Hatsumi; YOZA, Kenji; HARA, Hideyuki  
**2G7-30** Preparation and Fundamental Properties of Covalently Linked Pyrene-Single-Walled Carbon Nanotube Composites (Kyoto Univ., WPI-iCeMS) BAEK, Jinseok; UMEYAMA, Tomokazu; IMAHORI, Hiroshi  
**2G7-31\*** Hybridization of Semi-Conducting Single-Walled Carbon Nanotubes and Fullerene-Carrying Carbazole-Fluorene Copolymers (Kyushu Univ.) NAKASHIMA, Naotoshi; TOSHIMITSU, Fumiyouki; OZAWA, Hiroaki; IDE, Natsuko; FUJIGAYA, Tsuyohiko; NIIDOME, Yasuro  
**2G7-33\*** Electronic state calculations of arcs and rings made from modified graphene ribbons (AIST) FEDOROV, Dmitri

### Sunday, March 24, AM

Chair: SUGAI, Toshiki (9 : 00 ~ 10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(3G7-01, 3G7-03, 3G7-04, 3G7-06)  
**3G7-01\*** Computational study on interchain interactions operated between a few thiophene oligomers inside carbon nanotubes (Kyoto Institute of Technology) YUMURA, Takashi; YAMASHITA, Hiroki

- 3G7-03** Estimation of Functionalization Degree of Single-Walled Carbon Nanotubes Having Different substituents (Department of Chemistry, Tokyo Gakugei University) ISHIMOTO, Kiyoshi; SAITO, Kazuma; YAMADA, Michio; MAEDA, Yutaka; HASEGAWA, Tadashi; AKASAKA, Takeshi
- 3G7-04\*** Chirality Selective Solubilization/Extraction of Single-Walled Carbon Nanotubes Using Novel Metal Coordination Polymers (Kyushu Univ.) TOSHIMITSU, Fumiyouki; FUJIGAYA, Tsuyohiko; NIIDOME, Yasuro; NAKASHIMA, Naotoshi
- 3G7-06** Solubilization of single-walled carbon nanotubes using a flavin derivative (Kyushu Univ.) KATO, Yuuichi; HAMASAKI, Yuki; NIIDOME, Yasuro; NAKASHIMA, Naotoshi

Chair: MORI, Hatsumi (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(3G7-08, 3G7-10, 3G7-12)
- 3G7-08\*** Charge Effect of a Polymer Matrix on the Electronic States of Single-Walled Carbon Nanotubes (Kyushu University) HIRANA, Yasuhiko; NIIDOME, Yasuro; NAKASHIMA, Naotoshi
- 3G7-10\*** Chain-length dependence of DNA on the molecular interaction with Single-Walled Carbon Nanotubes (Kyushu Univ.) KATO, Yuichi; INOUE, Ayaka; NIIDOME, Yasuro; NAKASHIMA, Naotoshi
- 3G7-12\*** Reactivity in Cycloaddition to La<sub>2</sub>@C80: Vibronic Coupling Density Analysis (Kyoto Univ.) HARUTA, Naoki; SATO, Tohru; TANAKA, Kazuyoshi

Chair: NAKASHIMA, Naotoshi (11 : 20~12 : 20)

- \* 11:10-11:20: interval for laptop PC connection.(3G7-15, 3G7-16, 3G7-17, 3G7-18, 3G7-19, 3G7-20)
- 3G7-15#** Alkyne protected gold clusters: stability, structure, and photophysical properties (Grad. Sch. Sci., The Univ. of Tokyo) MAITY, Prasenjit; YAMAZOE, Seiji; WAKABAYASHI, Tomonari; TSUKUDA, Tatsuya
- 3G7-16** Synthesis and physical properties of  $\lambda$ -Ti<sub>3</sub>O<sub>5</sub> which exhibits a photo-induced reversible phase transition (The Univ. of Tokyo, JSPS-NEXT, JST-CREST) NASU, Tomomichi; TANAKA, Kenji; HAKOE, Fumiyouki; NAMAI, Asuka; TOKORO, Hiroko; OHKOSHI, Shin-ichi
- 3G7-17** First-principles calculation of the electronic states of  $\lambda$ -Ti<sub>3</sub>O<sub>5</sub> exhibiting a room-temperature photoreversible phase transition (The Univ. of Tokyo, JSPS-NEXT, JST-CREST) TANAKA, Kenji; NAGATA, Toshiaki; NASU, Tomomichi; HAKOE, Fumiyouki; NAMAI, Asuka; TOKORO, Hiroko; OHKOSHI, Shin-ichi
- 3G7-18** Thin film of photo-induced phase transition material,  $\lambda$ -Ti<sub>3</sub>O<sub>5</sub> (The Univ. of Tokyo;JSPS-NEXT;JST-CREST) HAKOE, Fumiyouki; TOKORO, Hiroko; OHKOSHI, Shin-ichi
- 3G7-19#** Coherent Acoustic Phonon Dynamics of Gold Nanorods and Nanospheres in PVA Matrix and Their Temperature Dependence by Transient Absorption Spectroscopy (School of Science and Technology, Kwansai Gakuin University) WANG, Li; TAKEDA, Shohei; TAMAI, Naoto
- 3G7-20** Effects of Shape and Surrounding Media on Coherent Acoustic Phonon Dynamics of Polyhedral Gold Nanoparticles (School of Science and Technology, Kwansai Gakuin University) TAKEDA, Shohei; WANG, Li; TERANISHI, Toshiharu; TAMAI, Naoto

## Sunday, March 24, PM

Chair: KIGUCHI, Manabu (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(3G7-28, 3G7-29, 3G7-30, 3G7-31, 3G7-32, 3G7-33)
- 3G7-28** Photoluminescence Enhancement of Lanthanoid Complex by Surface Plasmon in Metal Nanoparticle (Graduate school of Kobe university) TSUTSUMI, Masaki; HASEGAWA, Takashi; MIZUHATA, Minoru
- 3G7-29** Near-field optical microscopy of square assemblies of gold nanoparticles (Waseda Univ.) ICHIKAWA, Yoichi; IMAEDA, Keisuke; UENO, Kosei; MISAWA, Hiroaki; OKAMOTO, Hiromi; IMURA, Kohei
- 3G7-30** Optical control of two-photon photoluminescence from a rough gold film (Waseda Univ.) IMAEDA, Keisuke; IMURA, Kohei
- 3G7-31** Hydrogen absorption-induced change of plasmon resonances on Pd nanostructures (Hokkaido Univ.) UCHIYAMA, Sari; TAKASE, Mai; MURAKOSHI, Kei; IKEDA, Katsuyoshi
- 3G7-32** Second harmonic generation in ZnO microstructures studied by scanning near-field optical microscopy (Fac. Sci. and Eng., Waseda Univ.) TAKEUCHI, Mami; IMURA, Kohei
- 3G7-33** New Experimental Method to Precisely Examine the Unoccupied States of Organic Semiconductors: Inverse-photoemission spectroscopy in the near ultraviolet range (Kyoto Univ., JST PRESTO) YOSHIDA, Hiroyuki

Chair: IMURA, Kohei (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(3G7-35, 3G7-37, 3G7-39, 3G7-40)
- 3G7-35\*** STM observation of hydrogen adsorbate structure on CeO<sub>2</sub>(111) film formed on Ru(0001) (IMRAM, Tohoku Univ.) HASEGAWA, Tomo; FAKKURUDIN, Shahed; KOMEDA, Tadahi
- 3G7-37\*** Measurement on conductance and inelastic electron tunneling spectroscopy of Pt contact under cis-1,2-dichloroethylene environment (Graduate School of Science and Engineering, Tokyo Tech) NAKAZUMI, Tomoka; KIGUCHI, Manabu
- 3G7-39** Observation of electronic states in nanographene prepared by

- electrochemical oxidation of graphite (Tokyo Institute of Technology) OTSUKA, Misako; FUJII, Shintaro; KIGUCHI, Manabu; ENOKI, Toshiaki
- 3G7-40** Measuring conductance of 1,4-diiodobenzene by STM-BJ (Graduate School of Science and Engineering, Tokyo Tech) KOMOTO, Yuki; KIGUCHI, Manabu

Chair: MIZUHATA, Minoru (15 : 50~16 : 50)

- \* 15:40-15:50: interval for laptop PC connection.(3G7-42, 3G7-43, 3G7-44, 3G7-45, 3G7-47)
- 3G7-42** Enantio-controlled Reversible Switching of Charge Injection Barriers on Helicenedithiol Modified Electrodes (Grad. Sch. Pharm. Sci., Tohoku Univ.) NOUCHI, Ryo; SHIGENO, Masanori; YAMADA, Nao; TANIGAKI, Katsumi; YAMAGUCHI, Masahiko
- 3G7-43** Gap-mode SERS and IRRAS observation of metal / molecule / metal structures. (Hokkaido Univ.) KIMURA, Aya; MURAKOSHI, Kei; IKEDA, Katsuyoshi
- 3G7-44** Fabrication and conductance measurement of single molecular junction of Co complex (Graduate School of Science and Engineering, Tokyo Tech) INATOMI, Junichi; KIGUCHI, Manabu; MASAI, Hiroshi; TERAOKA, Jun; TSUJI, Yasushi
- 3G7-45\*** *In situ* NMR studies of rechargeable batteries including nanohybrid materials between molecular clusters and SWNTs as a cathode active material (Nagoya Univ.) YAMADA, Tetsuya; FUJITA, Shouji; YOSHIKAWA, Hirofumi; AWAGA, Kunio
- 3G7-47** Light and Stress Induced Chromism of Diarylethenes (Tokyo Univ. of Sci, Yamaguchi; Toyota Phys. & Chem. Res. Inst.; Muroran Inst. of Tech.) INOUE, Takeshi; INOKUCHI, Makoto; YAKUSHI, Kyuya; SHIROTANI, Ichimin

Chair: INOKUCHI, Makoto (17 : 00~18 : 00)

- \* 16:50-17:00: interval for laptop PC connection.(3G7-49, 3G7-51, 3G7-52, 3G7-53, 3G7-54)
- 3G7-49\*** Control of Molecular Orientation of 4,4'-Bis(carbazol-9-yl)biphenyl and its Application to the Suppression of the Roll-Off Characteristics in the Organic Light Emitting Diode (OPERA, Kyushu Univ.) KOMINO, Takeshi; NOMURA, Hiroko; KOYANAGI, Takahiro; ADACHI, Chihaya
- 3G7-51** Synthesis and efficiency of quadricyclane-C<sub>60</sub> derivatives for organic photovoltaic cells (Toho Univ., Kyung Hee Univ., Jeonju Univ., TAKOMA Technology Co., Ltd.) KOBATA, Nobumasa; OH, Jaebuem; LEE, Heejae; LEE, Haeseong; JANG, Jin; PAC, Chyongjin; MORIYAMA, Hiroshi
- 3G7-52** Specific Surface Free Energy and Morphology of Sulfate Mineral. (Fac. Eng., Shinshu Univ.) KAMIYA, Ryushi; SUZUKI, Takaomi
- 3G7-53** Specific surface free energy and morphology of inorganic salt (Fac. Eng., Shinshu Univ.) YAMADA, Yuya; SUZUKI, Takaomi; NAKAYAMA, Masaki
- 3G7-54** Specific surface free energy of inorganic oxide crystal (Shinshu Univ.) YOSHIDA, Mika; SUZUKI, Takaomi

Chair: SUZUKI, Takaomi (18 : 10~18 : 30)

- \* 18:00-18:10: interval for laptop PC connection.(3G7-56, 3G7-57)
- 3G7-56** Oxygen reduction reaction on Co-porphyrin-immobilized electrodes (Hokkaido Univ.) SATO, Shino; MURAKOSHI, Kei; IKEDA, Katsuyoshi
- 3G7-57** Photoconductivity of lead phthalocyanine thin films in triclinic and monoclinic phases (Institute for Chemical Research, Kyoto University) MURDEY, Richard; SATO, Naoki

## Monday, March 25, AM

Chair: KAWAJI, Hitoshi (9 : 00~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(4G7-01, 4G7-02, 4G7-03, 4G7-04, 4G7-05)
- 4G7-01** Physical Properties and Molecular-Assembly Nanostructures of Alkylamide-Substituted Benzene Derivatives (IMRAM, Tohoku Univ.) SHISHIDO, Yuta; HOSHINO, Norihisa; TAKEDA, Takashi; AKUTAGAWA, Tomoyuki
- 4G7-02** A Study on the Crystallinity of Glycerol (Kyoto Prefectural Momoyama Senior High School; KIT) KATO, Masahiro; NIWA, Genki; OOSAWA, Ryosuke; SASAKI, Takato; HIMENO, Wataru; ISHIKAWA, Yuichi; KU, Chansun; FUJITA, Hiroaki; KUSUKAWA, Takahiro
- 4G7-03** Polarized microscope FT-IR study on disclination structures generated in nematic cell (Graduate School of Natural Sciences, Nagoya City Univ.) MATSUMURA, Masanori; KATAYAMA, Norihisa
- 4G7-04** Preparation and Physical Properties of Electron-Accepting Alkoxy Substituted Dicyanopyrazinoquinolines (Tohoku Univ.) TAKEDA, Takashi; AKUTAGAWA, Tomoyuki
- 4G7-05\*** Changes of Structures and Properties of Water Interacting with Magnetic Fields (Shinshu University) OGSU, Masato; MATSUSHITA, Tomohisa; HONMA, Yuta; HAMASAKI, Atom; OZEKI, Sumio

Chair: OZEKI, Sumio (10 : 10~11 : 10)

- \* 10:00-10:10: interval for laptop PC connection.(4G7-08, 4G7-10, 4G7-12)
- 4G7-08\*** Mixing Scheme in Aqueous Solution of Tetrahydrofuran Deduced from the Third Derivative of Gibbs Energy (Osaka Univ.) YOSHIDA, Koh; INABA, Akira; KOGA, Yoshikata
- 4G7-10\*** Perfect Liquid and Perfect Solid v5 (Hosei University) KATAOKA,

Yosuke; YAMADA, Yuri

- 4G7-12\*** Design of ionic liquids to show lower critical solution temperature-type phase transition with water and their use for evaluation of hydrophilicity of ions. (Tokyo University of Agriculture and Technology) SAITA, Shohei; KOHNO, Yuki; OHNO, Hiroyuki

Chair: MIYAZAKI, Yuji (11 : 20~12 : 10)

- \* 11:10-11:20: interval for laptop PC connection.(4G7-15, 4G7-16, 4G7-17, 4G7-18, 4G7-19)
- 4G7-15** Fabrications of Polycrystalline Thin Film and Phase Transition Behaviours of Polar Adamantane Derivatives (IMRAM, Tohoku Univ.) HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki
- 4G7-16** Phase Transition and Dielectric Properties of Sodium *m*-Substituted Benzoates (IMRAM, Tohoku Univ.) ENDO, Manami; TAKAHASHI, Kiyonori; HOSHINO, Norihisa; TAKEDA, Takashi; AKUTAGAWA, Tomoyuki
- 4G7-17** Investigation of Phase Transition Phenomena in Confined Spaces by Measuring Adsorption Isotherm and Isobar (Shinshu Univ.) OGINO, Tomohiro; IYAMA, Taku; OZEKI, Sumio
- 4G7-18** Phase transition of absorbed organic molecules in zinc terephthalate complex [Zn4O(OOC6H4COO)3] (MSL, Tokyo Tech) MATSUMOTO, Ryo; UTHIDA, Atsuko; KAWAJI, Hitoshi
- 4G7-19** Thermal anomaly of tetramethylsilane confined in Zn-based metal-organic framework, IRMOF-1 (Graduate School of Science, Osaka Univ.; The Museum of Osaka Univ.) USHIMI, Takehiko; MIYAKUBO, Keisuke; EGUCHI, Taro; UEDA, Takahiro

### Monday, March 25, PM

Chair: MOCHIDA, Tomoyuki (13 : 20~14 : 20)

- \* 13:10-13:20: interval for laptop PC connection.(4G7-27, 4G7-29, 4G7-30, 4G7-31, 4G7-32)
- 4G7-27\*** Viscosities of ethylene diamine-ethylene glycol binary mixtures (Naruto Univ. of Educ.) HIRAMI, Hideki; TAKEDA, Kiyoshi; TERASHIMA, Yukio
- 4G7-29** Inclusion mechanism of  $\alpha$ -CD + butanols in aqueous solution (Kinki Univ.) TSUJIKAWA, Satoshi; KAMIYAMA, Tadashi; HUIJISAWA, Masao; KIMURA, Takayoshi
- 4G7-30** Enthalpic discrimination of chiral limonenes in butanols (Kinki Univ.; Lab.Physical chemistry) KOSUGE, Yuri; KAMIYAMA, Tadashi; FUJISAWA, Masao; KIMURA, Takayoshi
- 4G7-31** Thermodynamic Properties of FAMSO + Propanol at 298.15 K (Kinki Univ. ; Departments of Chemistry) TAKAHASHI, Masashi; KAMIYAMA, Tadashi; FUJISAWA, Masao; KIMURA, Takayoshi
- 4G7-32** Effect of methanol and trifluoroethanol on thermal denaturation of  $\beta$ -lactoglobulin (Fukuoka university) FUKUSHIMA, Yurika; YOSHIDA, Koji; YAMAGUCHI, Toshio

Chair: YAMAGUCHI, Toshio (14 : 30~15 : 30)

- \* 14:20-14:30: interval for laptop PC connection.(4G7-34, 4G7-35, 4G7-36, 4G7-37, 4G7-38, 4G7-39)
- 4G7-34** Pressure-induced Raman Spectral Changes of Imidazolium-based Ionic Liquids (Nat. Def. Acad.) SHIGEMI, Machiko; TAKEKIYO, Takahiro; ABE, Hiroshi; YOSHIMURA, Yukihiko
- 4G7-35** Synthesis of ionic liquids from 16 electron half-ruthenocenium cations (Graduate school of Science, Kobe Univ.) YAMASAKI, Shota; MOCHIDA, Tomoyuki
- 4G7-36** Synthesis and properties of ruthenocenium ionic liquids that exhibit photochemical reactivities (Graduate school of Science, Kobe Univ.) MORI, Shotaro; MOCHIDA, Tomoyuki
- 4G7-37** Synthesis and properties of mixed-valence ionic liquids containing biferoxyenium cations (Kobe Univ.) HAMADA, Shota; MOCHIDA, Tomoyuki
- 4G7-38** Development of ionic liquids from cationic iron(III) Schiff base complexes (Kobe Univ.) OKUHATA, Megumi; MOCHIDA, Tomoyuki
- 4G7-39** Preparation and Properties of Ionic Liquids from Cationic Copper Complexes Containing Tripodal Ligands (Kobe Univ.) FUNASAKO, Yusuke; NOSHO, Misaki; MOCHIDA, Tomoyuki

**Room G8**  
PRISM HOUSE P114

### Physical Chemistry -Chemical Kinetics and Dynamics-

Friday, March 22, AM

Chair: TAKEUCHI, Satoshi (9 : 00 ~10 : 00)

- \* 8:50-9:00: interval for laptop PC connection.(1G8-01, 1G8-03, 1G8-04, 1G8-06)
- 1G8-01\*** Long-lived Charge Separation in Supramolecules of Lithium En-

capsulated Fullerene with Anionic Chlorin Derivatives (Osaka Univ.; ALCA, JST) OHKUBO, Kei; KAWASHIMA, Yuki; FUKUZUMI, Shunichi

- 1G8-03\*** Photodrivien Electron Transport within the Columnar Peryleneimide Nanostructures Self-assembled with Porphyrins (Osaka Univ.; ALCA, JST) SUPPUR, Mustafa; FUKUZUMI, Shunichi
- 1G8-04\*** Submillisecond-Lived Photoinduced Charge Separation in Inclusion Complexes Composed of Li<sup>+</sup>@C<sub>60</sub> and Cyclic Porphyrin Dimers (Graduate School of Science, Kyushu Univ.; IMCE, Kyushu Univ.; Graduate School of Engineering, Osaka Univ.; ALCA, JST.) KAMIMURA, Takuya; OHKUBO, Kei; KAWASHIMA, Yuki; NOBUKUNI, Hirofumi; NARUTA, Yoshinori; TANI, Fumito; FUKUZUMI, Shunichi
- 1G8-06\*** Photoinduced Electron-Transfer Dynamics of a Ruthenium(II) Complex Bearing a Saddle Porphyrin Dication as a Photosensitizer (Univ. Tsukuba; Osaka Univ.; ALCA, JST) MATSUZAKI, Kouhei; ISHIZUKA, Tomoya; OHKUBO, Kei; KOTANI, Hiroaki; FUKUZUMI, Shunichi; KOJIMA, Takahiko

Chair: TOJO, Sachiko (10 : 10~11 : 00)

- \* 10:00-10:10: interval for laptop PC connection.(1G8-08, 1G8-10, 1G8-11, 1G8-12)
- 1G8-08\*** Time-resolved study on the photochemical reaction dynamics of light sensor protein YtvA (Department of Chemistry, Graduate school of Science Kyoto University) CHOI, Seokwoo; NAKASONE, Yusuke; KLAAS, J Hellingwerf; TERAZIMA, Masahide
- 1G8-10** Conformational dynamics of the N-terminal helical region of phototropin1 LOV2 domain (Kyoto Univ. ; Osaka Prefecture Univ.) TAKEDA, Kimitoshi; NAKASONE, Yusuke; ZIKIHARA, Kazunori; TOKUTOMI, Satoru; TERAZIMA, Masahide
- 1G8-11** Photoreaction dynamics of the LOV2-kinase fragment of phototropin2 from Arabidopsis (Kyoto Univ. ; Osaka Prefecture Univ.) TAKAKADO, Akira; NAKASONE, Yusuke; OKAJIMA, Koji; TERAZIMA, Masahide
- 1G8-12** Photoactivation of a blue light receptor BLUF protein PapB studied by femtosecond transient absorption (Molecular spectroscopy lab., RIKEN) FUJISAWA, Tomotsumi; TAKEUCHI, Satoshi; MASUDA, Shinji; TAHARA, Tahei

Chair: OHKUBO, Kei (11 : 10~12 : 00)

- \* 11:00-11:10: interval for laptop PC connection.(1G8-14, 1G8-16, 1G8-18)
- 1G8-14\*** Dye Structure and Energy Transfer Dynamics Studied by Ultra-fast Infrared Spectroscopy (NIMS GREEN; NIMS MANA; Hokkaido Univ.) ITO, Mikio; NOGUCHI, Hidenori; UOSAKI, Kohei
- 1G8-16\*** Electron transfer dynamics of inhomogeneous photoelectric conversion systems by means of femtosecond transient absorption microscopy (Grad. Sch. Eng. Sci., Osaka Univ.; JST - PRESTO) KATAYAMA, Testuro; JINNO, Akira; MIYASAKA, Hiroshi
- 1G8-18** Thermal Chemiluminescence Mechanism of Aspartame Using Multi-channel Fourier-Transform Chemiluminescence Spectrometer (Tokyo Univ. of Agriculture and Technology; Japan Applied Technology Inc.) YANO, Ayako; ISHII, Hiroshi; SATOH, Chikahiro; AKAI, Nobuyuki; NAKATA, Munetaka

### Friday, March 22, PM

Chair: KONDOH, Takafumi (13 : 20~14 : 30)

- \* 13:10-13:20: interval for laptop PC connection.(1G8-27, 1G8-29, 1G8-31, 1G8-32, 1G8-33)
- 1G8-27\*** Excess electron dynamics in DNA hairpins conjugated with N,N-dimethylaminopyrene (ISIR, Osaka Univ.) FUJITSUKA, Mamoru; PARK, Man Jae; KAWAI, Kiyohiko; MAJIMA, Tetsuro
- 1G8-29\*** Radiation chemistry of polyphenylalkane (Univ. of Osaka; ISIR) TOJO, Sachiko; FUJITSUKA, Mamoru; MAJIMA, Tetsuro
- 1G8-31** Fabrication of function-graded PEMs for PEFC using electron beam grafting technique - Evaluation of FC performance under non-humidified condition - (RISE, Waseda Univ.) TSUKAMOTO, Atsushi; TSUCHIDA, Ryota; HIRAIWA, Satoshi; OSHIMA, Akihiro; WASHIO, Masakazu
- 1G8-32** Fabrication of polymer electrolyte membranes for direct methanol fuel cell and direct ethanol fuel cell using EB grafting (RISE, Waseda Univ.) SAKAI, Yusuke; TSUCHIDA, Ryota; TUKAMOTO, Atsushi; HIRAIWA, Satoshi; OSHIMA, Akihiro; WASHIO, Masakazu
- 1G8-33** Radical Ions of Two-Dimensional Oligofluorenes (ISIR, Osaka Univ.; National Taiwan Univ.) FUJITSUKA, Mamoru; TOJO, Sachiko; YANG, Jye-shane; MAJIMA, Tetsuro

Chair: FUJITSUKA, Mamoru (14 : 40~15 : 40)

- \* 14:30-14:40: interval for laptop PC connection.(1G8-35, 1G8-37, 1G8-39, 1G8-40)
- 1G8-35\*** Evolution of the equivalent velocity spectroscopy method for femtosecond pulse radiolysis (ISIR, Osaka Univ.) KONDOH, Takafumi; IGAHARA, Daiki; TOIGAWA, Tomohiro; KAN, Koichi; YANG, Jinfeng; NORIZAWA, Kimihiro; OGATA, Atsushi; KOBAYASHI, Hitoshi; YOSHIDA, Yoichi
- 1G8-37\*** Temperature dependence of formation process of solvated electron in alcohol (ISIR, Osaka University) NORIZAWA, Kimihiro; TOIGAWA, Tomohiro; KONDOH, Takafumi; KAN, Koichi; YANG, Jinfeng; YOSHIDA, Yoichi

- 1G8-39** Ageing study of cable insulation by means of Q-band microwave absorption method (Fukui University of Technology; Osaka University) SUNAGAWA, Takeyoshi; SAEKI, Akinori; SEKI, Shu
- 1G8-40** Solvation process of electrons in neat n-alcohol studied by femtosecond pulse radiolysis (ISIR, Osaka Univ.) TOIGAWA, Tomohiro; NORIZAWA, Kimihiro; KONDOH, Takafumi; YANG, Jinfeng; OGATA, Atsushi; YOSHIDA, Yoichi

Chair: SUEMATSU, Nobuhiro (15 : 50~16 : 40)

- \* 15:40-15:50: interval for laptop PC connection.(1G8-42, 1G8-43, 1G8-44, 1G8-45, 1G8-46)
- 1G8-42** Morphology of Calcium Carbonate Deposited under Ultrasonic Irradiation Field (KAIT) HONDA, Kazuhiro
- 1G8-43** Control of Spatially Periodic Pattern Spontaneously Generated by Coating of Viscous Fluid and Analysis of its Light Diffusion Property (Fac. Sci. Tech., Keio Univ.) NAKAZAWA, Ryo; KURODA, Akihiro; NIHEI, Eisuke; ISHIGURE, Takaaki; SUZUKI, Yuichiro; OKANO, Kunihiko; ASAKURA, Kouichi
- 1G8-44** Spontaneous oil droplet motion in surfactant aqueous solution and the reaction mechanisms (Kanagawa University) NANZAI, Ben; YAMAUCHI, Masumi; IGAWA, Manabu
- 1G8-45** Effect of Gemini-type Cationic Surfactants on Oil Droplet Locomotion (Graduate School of Arts and Sciences, The University of Tokyo) BANNO, Taisuke; MIURA, Shingo; KUROHA, Rie; TOYOTA, Taro
- 1G8-46** Emergence of periodic alignment of organic crystals on solid substrate via dynamics of dissipative interface (AIST) SUZUKI, Kosuke; YAMAGUCHI, Tomohiko

Chair: NANZAI, Tsutomu (16 : 50~17 : 40)

- \* 16:40-16:50: interval for laptop PC connection.(1G8-48, 1G8-49, 1G8-50, 1G8-51, 1G8-52)
- 1G8-48** Hysteresis observed in a camphor boat which indicates intermittent motion. (Hiroshima University) HATA, Misato; IKURA, S. Yumihiko; NAKATA, Satoshi; ERIC, Heisler; NISHIMORI, Hiraku
- 1G8-49** Reciprocation of a camphor disk on a molecular layer which indicates the pi-A isotherm with a local minimum and local maximum (Grad. Sch. Sci., Hiroshima Univ.) MIYAJI, Tatsuya; UEDA, Tomoaki; SATO, Taisuke; IKURA, S. Yumihiko; IZUMI, Shunsuke; KITAHATA, Hiroyuki; NAGAYAMA, Masaharu; NAKATA, Satoshi
- 1G8-50** Autonomous motor driven with glucose as an energy source (Grad. Sch. Sci., Hiroshima Univ.) MATSUDA, Yui; SUEMATSU, J. Nobuhiro; NAKATA, Satoshi
- 1G8-51** Collective Motion of Camphor Disks generating Rhythm and Synchronization (Meiji University ;Graduate School of Advanced Mathematical Sciences) TATENO, Kurina; SUEMATSU, Nobuhiro J.; NAKATA, Satoshi; NISHIMORI, Hiraku
- 1G8-52** Self-Motion of Micro Droplets Driven by Chemical Oscillatory Reaction (Graduate School of Advanced Mathematical Sciences, Meiji University) SUEMATSU, J. Nobuhiro

Chair: HONDA, Kazuhiro (17 : 50~18 : 10)

- \* 17:40-17:50: interval for laptop PC connection.(1G8-54, 1G8-55)
- 1G8-54** Luminescence behavior of surface attached bacteria (Tokyo Univ. Technol.) SASAKI, Satoshi
- 1G8-55** Effects of pH on the glycolytic oscillations in yeast (Yokohama Natl. Univ.) MIYATA, Taiga; AMEMIYA, Takashi; ITOH, Kiminori

## Saturday, March 23, AM

Chair: WATANABE, Kazuya (9 : 00 ~9 : 50)

- \* 8:50-9:00: interval for laptop PC connection.(2G8-01, 2G8-03, 2G8-04, 2G8-05)
- 2G8-01\*** First-principle calculations of the migration of a neutral hydrogen molecule within a methanol dication (School of Science, The University of Tokyo) NAKAI, Katsunori; KATO, Tsuyoshi; YAMANOUCHI, Kaoru
- 2G8-03** Observation of multiphoton laser-assisted electron scattering process in a femtosecond intense laser field (School of Science, Univ. of Tokyo) ISHIDA, Kakuta; MORIMOTO, Yuya; KANYA, Reika; YAMANOUCHI, Kaoru
- 2G8-04** Dissociation process of carbonyl sulfide in collision with highly charged ion (Tokyo Metropolitan Univ.) TEZUKA, Haruaki; FUKUTOME, Ayumi; KARIMI, Reza; MATSUMOTO, Jun; SANDERSON, Joseph; SHIROMARU, Haruo
- 2G8-05** Development of a Penning ionization electron spectrometer with the magnetic bottle effect (The Univ. of Electro-Communications) ZAIZEN, Moto; NAKAJIMA, Yutaro; YAMAKITA, Yoshihiro

Chair: YAMANOUCHI, Kaoru (10 : 00~11 : 00)

- \* 9:50-10:00: interval for laptop PC connection.(2G8-07)
- 2G8-07** CSJ Award for Creative Works Ultrafast Photoelectron Spectroscopy of Chemical Reactions in Gas and Liquid Phases (Grad. Sch. Sci., Kyoto Univ.; RIKEN) SUZUKI, Toshinori

Chair: YOSHIHARA, Sachio (11 : 10~12 : 20)

- \* 11:00-11:10: interval for laptop PC connection.(2G8-14, 2G8-15, 2G8-17,

- 2G8-19)
- 2G8-14** Observation of solid-liquid heterogeneous catalytic reaction by soft X-ray absorption spectroscopy (Institute for Molecular Science) YUZAWA, Hayato; NAGASAKA, Masanari; KOSUGI, Nobuhiro
- 2G8-15\*** In-Situ Observation of Solid-Liquid Interfaces in Electrodes by Soft X-Ray Absorption Spectroscopy (Institute for Molecular Science; SOKENDAI; McMaster University) NAGASAKA, Masanari; YUZAWA, Hayato; HORIGOME, Toshio; QIN, Z.; HITCHCOCK, A. P.; KOSUGI, Nobuhiro
- 2G8-17\*** In-situ time-resolved XAFS study for Pt/C cathode catalyst in fuel-cell MEA (IMS; Univ. of Tokyo; Univ. Electro-Communications; Spring-8; Tokushima Univ.) ISHIGURO, Nozomu; SAIDA, Takahiro; NAGASAWA, Kensaku; SEKIZAWA, Oki; NITTA, Kiyofumi; URUGA, Tomoya; YAMAMOTO, Takashi; YOKOYAMA, Toshihiko; OHKOSHI, Shin-ichi; TADA, Mizuki
- 2G8-19\*** Instantaneous one-pot synthesis of Fe-N-modified graphene as an efficient electrocatalyst for oxygen reduction reaction (School of Engineering, The Univ. of Tokyo; Rcast, The Univ. of Tokyo; JST ERATO) KAMIYA, Kazuhide; NAKANISHI, Shuji; HASHIMOTO, Kazuhito

## Saturday, March 23, PM

Chair: NAGASAKA, Masanari (13 : 30~14 : 30)

- \* 13:20-13:30: interval for laptop PC connection.(2G8-28, 2G8-29, 2G8-30, 2G8-31, 2G8-32, 2G8-33)
- 2G8-28** Withdrawn
- 2G8-29\*** Electrochemical and electrochemical quartz crystal microbalance studies on deposition/dissolution of Li-O<sub>2</sub> species on a Au electrode in relation to the Li-air battery (National institute for materials science) JIE, Xiao; UOSAKI, Kohei
- 2G8-30\*** Role of Boron Nitride (BN) thin films on Au electrode for oxygen reduction reaction (ORR) (National Institute for Materials Science) ELUMALAI, Ganesan; NOGUUCHI, Hidenori; MASUDA, Takuya; UOSAKI, Kohei
- 2G8-31\*** Effect of pH and anion on the potential dependent adsorption of oxygen at a gold electrode surface studied by electrochemical quartz crystal microbalance (NIMS; MANA; NIMS;) TONG, Shengfu; MASUDA, Takuya; NOGUUCHI, Hidenori; UOSAKI, Kohei
- 2G8-32** Studies on the electrochemical reaction of boron doped diamond under magnetic field (No. 2) (Grad. of Eng., Utsunomiya Univ.) YOSHIHARA, Sachio; YANAOKA, Toshihiro
- 2G8-33** Construction of metal-viologen hybrid multilayers on hydrogen-terminated Si(111) electrodes and their utilization for various photoelectrochemical reactions. (National Institute for Materials Science) MASUDA, Takuya; SUN, Yu; FUKUMITSU, Hitoshi; UEHARA, Hiromitsu; TAKAKUSAGI, Satoru; CHUN, Wang-jae; KONDO, Toshihiro; ASAKURA, Kiyotaka; UOSAKI, Kohei

Chair: YAMAKITA, Yoshihiro (16 : 50~17 : 20)

- \* 16:40-16:50: interval for laptop PC connection.(2G8-48, 2G8-49, 2G8-50)
- 2G8-48** Magnetic Field Effects on Photoinduced Electron Transfer Reaction in Ionic Liquids (Saitama Univ.) ISHII, Yuya; YAGO, Tomoaki; WAKASA, Masanobu
- 2G8-49** Magnetic Field Effects on Photocurrents of Zinc Porphyrin-Viologen Linked Compounds-Silver Nanoparticle Composite Films (Faculty of Engineering, Kyushu Univ.; Graduate school of Engineering, Kyushu Univ.) YONEMURA, Hiroaki; TAKATA, Masayuki; MATSUMOTO, Ryujii; YAMADA, Sunao
- 2G8-50** Influence of Complex Formation on Photoelectric Conversion Properties of 8-Hydroxyquinoline-Containing Titania (Shinshu Univ.; Nagano Pref. Inst. Tech.) TODOROKI, Kenta; SETIAWAN, Rudi Agus; NISHIKIORI, Hiromasa; TANAKA, Nobuaki; FUJII, Tsuneo

## Sunday, March 24, AM

Chair: TERASAKI, Akira (9 : 00 ~9 : 50)

- \* 8:50-9:00: interval for laptop PC connection.(3G8-01, 3G8-02, 3G8-03, 3G8-04, 3G8-05)
- 3G8-01** Thermal stability of 3d transition metal oxide clusters and their reactivity (Grad. Sch. Arts and Sci., The Univ. of Tokyo) SAKUMA, Kazuko; MORITA, Keisuke; MIYAJIMA, Ken; MAFUNE, Fumitaka
- 3G8-02** Thermal stability of copper oxide clusters and its reactivity with CO gas (Grad. Sch. Arts and Sci., The Univ. of Tokyo) MORITA, Keisuke; SAKUMA, Kazuko; MIYAJIMA, Ken; MAFUNE, Fumitaka
- 3G8-03** Reactions of Composition-Selected Cerium Oxide Cluster Ions with CO and NO (Genesis Res. Inst., Inc.) HIRABAYASHI, Shinichi; ICHIHASHI, Masahiko
- 3G8-04** Generation of Oxygen-Deficient Ceria Clusters and Their Reactivity with O<sub>2</sub> and CO (Grad. Sch. Arts and Sci., The Univ. of Tokyo) MIYAJIMA, Ken; MAFUNE, Fumitaka
- 3G8-05** Generation of Rh clusters supported on gas phase ceria clusters and their reactivity (The University of Tokyo, Graduate School of Arts and Sciences) SHIGETA, Daisuke; MIYAJIMA, Ken; MAFUNÉ, Fumitaka

Chair: TSUNOYAMA, Hironori (10 : 00~11 : 00)

\* 9:50-10:00: interval for laptop PC connection.(3G8-07, 3G8-08, 3G8-09, 3G8-11, 3G8-12)

**3G8-07** Formation of a stable product in the reaction of aluminum cluster cations with oxygen and water molecules (Kyushu Univ.) KOHARA, Kei; ARAKAWA, Masashi; TERASAKI, Akira

**3G8-08** Production and reactivity of cerium nitride cluster cations (Kyushu Univ) ITOH, Yoshiki; ITO, Tomonori; ARAKAWA, Masashi; TERASAKI, Akira

**3G8-09\*** Size-specific cooling processes of C<sub>5</sub>-, C<sub>6</sub>-, C<sub>6</sub>H- observed in an ion storage study (Tokyo Metropolitan Univ. ; Gothenburg Univ.) GOTO, Motoshi; MATSUMOTO, Jun; SHIROMARU, Haruo; ITO, Gen; FURUKAWA, Takeshi; TANUMA, Hajime; AZUMA, Toshiyuki; SUNDEN, Erika; HANSEN, Klavs

**3G8-11** Adsorption rates of O<sub>2</sub> and CO molecules on a free gold dimer cation enhanced by a coadsorbed water molecule (Kyushu Univ.) ITO, Tomonori; ARAKAWA, Masashi; TERASAKI, Akira

**3G8-12** Time-of-flight mass spectrometer for real-time monitoring of the cluster-size distribution in a continuous ion beam (Faculty of Sci., Kyushu Univ.) SARUGAKU, Shun; ARAKAWA, Masashi; TERASAKI, Akira

Chair: YASUMATSU, Hisato (11 : 10~12 : 00)

\* 11:00-11:10: interval for laptop PC connection.(3G8-14)

**3G8-14\*** **Special Lecture** Surprising selectivity in the activation and oxidation of methane by gas phase gold and gold-palladium clusters (Institute for Surface Chemistry and Catalysis, University of Ulm) Thorsten Marco Bernhardt

## Asian International Symposium - Physical Chemistry -

Sunday, March 24, PM

Chair: Kohichi IWATA (13 : 00~13 : 50)

**3G8-25\*** **Keynote Lecture** Excited-state Dynamics of Carotenoids studied by Ultrafast vibrational spectroscopy (Gwangju Institute of Science and Technology, Korea) Yoonsoo PANG; Jaebeom LEE; Ingu LEE (13:00~13:30)

**3G8-28\*** **Invited Lecture** Ultrafast IR spectroscopic study on hydrogen bonding interaction of carbonyl compounds in solution (Tokyo Science Univ.) Motohiro Banno (13:30~13:50)

Chair: Ken-ichi SAITOW (13 : 50~14 : 10)

**3G8-30\*** **Invited Lecture** Charge transfer dynamics in solar cell materials by femtosecond transient absorption spectroscopy (AIST) Akihiro Furube (13:50~14:10)

Chair: Hideki KANDORI (14 : 20~15 : 10)

**3G8-33\*** **Keynote Lecture** Proton transfer reactions in biomolecules (Regional Centre for Biotechnology, India) Tushar Kanti MAITI (14:20~14:50)

**3G8-36\*** **Invited Lecture** Mechanism of proton transfer in proteins (Kyoto Univ.) Hiroshi ISHIKITA (14:50~15:10)

Chair: Hatsumi MORI (15 : 10~15 : 30)

**3G8-38\*** **Invited Lecture** Thermopower of hole-proton mixed conductors (NIMS) Yuka KOBAYASHI (15:10~15:30)

Chair: Hiroshi SEKIYA (15 : 40~16 : 10)

**3G8-41\*** **Keynote Lecture** UV-UV hole burning spectroscopy of ions in a quadrupole ion trap (Chungbuk National Univ., Korea) Nam Joon KIM (15:40~16:10)

Chair: Fuminori MISAIZU (16 : 10~16 : 30)

**3G8-44\*** **Invited Lecture** Rearrangement and fluctuation of hydrogen bond in gaseous cluster cations (Kyushu Univ.) Kenji SAKOTA (16:10~16:30)

Chair: Tatsuya TSUKUDA (16 : 30~16 : 50)

**3G8-46\*** **Invited Lecture** Isomer-separated photodissociation of carbon and silicon cluster ions (Tohoku Univ.) Kiichirou KOYASU; Ryoichi MORIYAMA; Tomohiro OHTAKI; Jun HOSOYA; Fuminori MISAIZU (16:30~16:50)

## Physical Chemistry -Chemical Kinetics and Dynamics-

Chair: MISAIZU, Fuminori (17 : 00~17 : 40)

\* 16:50-17:00: interval for laptop PC connection.(3G8-49, 3G8-51)

**3G8-49\*** Doping effect of a Pd atom on catalysis of supported Au cluster (Grad. Sch. Sci., The Univ. of Tokyo) YAMAZOE, Seiji; KURASHIGE, Wataru; NEGISHI, Yuichi; TSUKUDA, Tatsuya

**3G8-51\*** Effect of Pd doping on the reactivity of thiolate protected gold cluster (Tokyo University of Science; Graduate School of Chemical Science and Technology) NIIHORI, Yoshiki; KURASHIGE, Wataru; MATSUZAKI,

Miku; NEGISHI, Yuichi

Chair: MIYAJIMA, Ken (17 : 50~18 : 30)

\* 17:40-17:50: interval for laptop PC connection.(3G8-54, 3G8-56)

**3G8-54\*** High-resolution separation of thiolate protected gold cluster by HPLC with gradient elution mode (Tokyo University of Science; Graduate School of Chemical Science and Technology) NIIHORI, Yoshiki; MATSUZAKI, Miku; NEGISHI, Yuichi

**3G8-56\*** Development of nanocluster ion source based on pulsed magnetron sputtering technique (Keio Univ.; JST-ERATO) TSUNOYAMA, Hironori; ZHANG, Chuhan; AKATSUKA, Hiroki; SEKIYA, Hiroki; NAGASE, Tomomi; NAKAJIMA, Atsushi

Monday, March 25, AM

Chair: WAKABAYASHI, Tomonari (9 : 00 ~10 : 00)

\* 8:50-9:00: interval for laptop PC connection.(4G8-01, 4G8-02, 4G8-03, 4G8-04, 4G8-05, 4G8-06)

**4G8-01** Size dependence of structures of cobalt oxide cluster ions studied by ion mobility spectrometry (Tohoku Univ.) OHTA, Kosuke; KOYASU, Kiichirou; MISAIZU, Fuminori

**4G8-02** The kinetic study of oxidation reaction of isomer-separated linear carbon cluster ions (Tohoku Univ.) TAKEDA, Maiki; OHTAKI, Tomohiro; KOYASU, Kiichirou; MISAIZU, Fuminori

**4G8-03** Development of large-scale ion trap mobility system (Department of Chemistry, Toho University) SUGAI, Toshiki

**4G8-04** Structural Fluctuation in hydrated Benzyl alcohol cluster cation by gas-phase spectroscopy (Kyushu Univ.) IKEDA, Takamasa; SAKOTA, Kenji; SEKIYA, Hiroshi

**4G8-05** Photodissociation reactions of separated isomers of carbon and silicon cluster ions (Tohoku University) KOYASU, Kiichirou; MORIYAMA, Ryoichi; OHTAKI, Tomohiro; HOSOYA, Jun; MISAIZU, Fuminori

**4G8-06** Photofragment ion imaging detection of mass-selected Mg<sup>+</sup>FCH<sub>3</sub> gas-phase complex ions (Tohoku Univ.) OKUTSU, Kenichi; HOSHINO, Hiroshi; KOYASU, Kiichirou; MISAIZU, Fuminori

Chair: NEGISHI, Yuichi (10 : 10~11 : 10)

\* 10:00-10:10: interval for laptop PC connection.(4G8-08, 4G8-09, 4G8-10, 4G8-11)

**4G8-08** Structure determination of 1-naphthol-ammonia clusters in the S1 state by UV-IR-UV mid-IR spectroscopy. (Chem. Res. Lab., Tokyo Tech) YOSHIKAWA, Shunpei; YOSHINO, Ruriko; SHIMIZU, Toshihiko; MAATIN, Waira; ISHIUCHI, Shunichi; MIYAZAKI, Mitsuhiko; ISHIKAWA, Haruki; FUJII, Masaaki

**4G8-09** Infrared spectroscopy of Polyene-Iodine Complexes (Kinki Univ) WADA, Yoriko; MORISAWA, Yusuke; WAKABAYASHI, Tomonari

**4G8-10** Near infrared emission spectra of bismuth clusters in solid neon matrix (Kinki Univ., Okayama Univ.) WAKABAYASHI, Tomonari; TOMIOKA, Makiko; MIYAMOTO, Yuki; KUMA, Susumu; KAWAGUCHI, Kentarou

**4G8-11** **Young Scholar Lectures of CSJ** Physicochemical study on the novel light-driven Na<sup>+</sup>/H<sup>+</sup> hybrid pump rhodopsin (Nagoya Institute of Technology) Inoue, Keiichi

Chair: KOBORI, Yasuhiro (11 : 20~12 : 10)

\* 11:10-11:20: interval for laptop PC connection.(4G8-15, 4G8-17, 4G8-18)

**4G8-15\*** Photoionization dynamics of indole at air/water interface observed by UV-excited time-resolved HD-VSFG spectroscopy (RIKEN) MATSUZAKI, Korenobi; NIHONYANAGI, Satoshi; YAMAGUCHI, Shoichi; NAGATA, Takashi; TAHARA, Tahei

**4G8-17** Sub-ps Transient Absorption Microspectroscopy for A Single Micro-crystal (Ehime University) ISHIBASHI, Yukihide; UDAKA, Osamu; ASAH, Tsuyoshi

**4G8-18\*** Plasmon-based optical trapping and pattern formation of polymer microgels labeled with a fluorescent probe (2) (Hokkaido university) TSUBOI, Yasuyuki; TOSHIMITSU, Mariko; SHOJI, Tatsuya; MATSUMURA, Yuriko; KITAMURA, Noboru

Monday, March 25, PM

Chair: TSUBOI, Yasuyuki (13 : 20~14 : 20)

\* 13:10-13:20: interval for laptop PC connection.(4G8-27, 4G8-29, 4G8-30, 4G8-31, 4G8-32)

**4G8-27\*** Two-dimensional heterodyne-detected vibrational sum frequency generation spectroscopy of water at a charged interface with excess salt (RIKEN) SINGH, Prashant; NIHONYANAGI, Satoshi; YAMAGUCHI, Shoichi; TAHARA, Tahei

**4G8-29** Dynamics of the primary charge-separated state in the photosystem II reaction center (Faculty of Science, Shizuoka University) YAMASHITA, Yukimi; MINO, Hiroyuki; KOBORI, Yasuhiro

**4G8-30** Location-Dependent Reduction Reactions on TiO<sub>2</sub> Mesocrystals (ISIR, Osaka Univ.) TACHIKAWA, Takashi; BIAN, Zhenfeng; MAJIMA, Tetsuro

**4G8-31** Photochromic Reaction on Diarylethene Derivatives (Saitama Univ.) MURATA, Ryutarou; MASUKO, Takuro; YAGO, Tomoaki; TAKAYANAGI, Toshiyuki; WAKASA, Masanobu

**4G8-32** Reaction yield of Two Color and Two Step Photo-reduction from  $\text{Yb}^{3+}$  to  $\text{Yb}^{2+}$  and Absorption of the Intermediate (Toyota Riken; Toyota Central R&D Labs., Inc.; Osaka City Univ.) NAKASHIMA, Nobuaki; YAMANAKA, Ken-ichi; YATSUHASHI, Tomoyuki

Chair: WAKASA, Masanobu (14 : 30~15 : 20)

\* 14:20-14:30: interval for laptop PC connection.(4G8-34, 4G8-36, 4G8-37, 4G8-38)

**4G8-34\*** New Multiphoton Reaction Paths of Cyanine Dyes in Condensed Phase Investigated by Ultrafast Transient Absorption Spectroscopy (Kobe Univ.) FUYUKI, Masanori; WADA, Akihide

**4G8-36** Formation of Solvated Electrons in Alcohols Observed with Femtosecond Time-Resolved Near-IR Spectroscopy (Gakushuin University) ARII, Setsuka; TAKAYA, Tomohisa; IWATA, Koichi

**4G8-37** Kinetics of triplet-triplet-annihilation up-conversion: Excitation-intensity dependence of the quantum yield (AIST; Kwansai Gakuin Univ.) SAKURAI, Akihiko; KAMADA, Kenji

**4G8-38** Triplet-triplet-annihilation up-conversion characteristics of alkyl-chain-protected diphenylanthracene by LED excitation (AIST; Kwansai Gakuin Univ.; Shizuoka Univ.) SAKURAI, Akihiko; KAMADA, Kenji; FUJIWARA, Yutaka; KOBAYASHI, Kenji

Chair: KAMADA, Kenji (15 : 30~16 : 40)

\* 15:20-15:30: interval for laptop PC connection.(4G8-40, 4G8-41, 4G8-42, 4G8-43, 4G8-44, 4G8-45, 4G8-46)

**4G8-40** Fluorescence spectral change of perylene during the droplet evaporation process in polymer-contained solutions. (Fac. of Education, Shinshu Univ.) ITO, Fuyuki; YAMAMOTO, Kazuki

**4G8-41** Effects of temperature on the time resolved electron spin resonance spectra of the polythiophene-fullerene blend film (Shizuoka Univ.) TSUGANEZAWA, Shuhei; NOJI, Ryouhei; MIURA, Taku; KOBORI, Yasuhiro

**4G8-42** Time-resolved electron paramagnetic resonance of photoinduced charge-separated states in P3HT-PCBM blend films fabricated by the spin coat method (Shizuoka Univ.) MIURA, Taku; NOJI, Ryohei; TSUGANEZAWA, Shuhei; KOBORI, Yasuhiro

**4G8-43** Fabrication and Evaluation of Luminescent Silicon Nanoparticle "Prepared by Electrochemically Etching and Laser Ablation Methods in Liquids" (Kwansai Gakuin Univ.) KOIKE, Eiko; MASUO, Sadahiro

**4G8-44** Detection of Active Oxygen Species in a UV/Microbubble Water Purification System and the Investigation of the Reaction Mechanism (Hachinohe National College of Technology) MURAKAMI, Yoshinori; HIRAKAWA, Tsutomu

**4G8-45** Effect of Magnetically Regulated Gravity on Ability of Saccharification by *Aspergillus oryzae* (Graduate School of Science, Hiroshima University) FUJIWARA, Yoshihisa; KISHIKAWA, Hiromi

**4G8-46** Effects of High Magnetic Field and Microgravity Environments on Ag Nanoparticle Preparation (Grad. Sch. Sci., Hiroshima Univ.) NAKAGAWA, Mai; KATSUKI, Akio; FUJIWARA, Yoshihisa

## Room P

### AD-SEMINARIO

Friday, March 22, AM

(10 : 00~11 : 30)

### Catalysts and Catalysis

**1PA-001** Measurement of surface hydroxyl groups of titanium dioxides using hydrosilanes (Gunma Univ.) TAMURA, Hiroki; IWAMOTO, Shinji

**1PA-002** Observation of the surface state of a Ni catalyst supported over calcium silicate (Grad. Sch. Sci. Eng., Yamaguchi Univ.) TANAKA, Hideyuki; SAKATA, Yoshihisa; IMAMURA, Hayao; SIMIZU, Keniti

**1PA-003** Investigation of chiral modifier's structure using enantioselective hydrogenation with Pd-CD catalyst. (Univ. of Hyogo) NAKATSUJI, Makoto; SUGIMURA, Takashi

**1PA-004** Cluster Size Regulation of Ni Nanocluster Catalyst by Using Secondary-Alkoxide and Its Catalysis for Water Gas Shift Reaction (Chiba University) KITAGAWA, Hirotake; ICHIKUNI, Nobuyuki; HARA, Takayoshi; SHIMAZU, Shogo

**1PA-005** Structure of mesoporous alumina supported molybdenum oxide catalysts and their catalysis of propane photo-oxidation reaction (Chiba University) ISHIZUKI, Kazuya; ICHIKUNI, Nobuyuki; HARA, Takayoshi; SHIMAZU, Shogo

**1PA-006** Formation of palladium and a nickel nanoparticles and activities in catalytic hydrogen generation from ammonia borane (Toyama N.C.T.) TSUMORI, Nobuko; TAKEUCHE, Reo; XU, Qiang

**1PA-007** The continuous generation of active oxygen species and upgrading of the device using polyaniline VII (Faculty of Biomedical Engineering, Toin Univ. of Yokohama; Graduate School of Engineering, Toin Univ. of

Yokohama) KOARAI, Takuya; OGAWA, Yuichi; SAITO, Kiyoshi

**1PA-008** Reaction behavior of antioxidant with active oxygen species using a polyaniline / oxygen / aqueous system. (Faculty of Biomedical Engineering, Toin Univ. of Yokohama; Graduate School of Engineering, Toin Univ. of Yokohama) YOTA, Taichi; KATO, Kouji; SAITO, Kiyoshi

**1PA-009** Catalytic actions of  $\text{Cu}_2\text{O}$  and  $\text{CuO}$  on the hydrothermal oxidation processing of chlorophenol (Osaka City Univ) NAKAO, Kyohei; SHIMOKAWA, Ai; KOMETANI, Noritsugu

**1PA-010** Catalytic action of Cu-grafted titanium dioxide on the hydrothermal oxidation processing of chlorophenol (Osaka City Univ) HONDA, Hiroki; SHIMOKAWA, Ai; KOMETANI, Noritsugu

**1PA-012** Control of particle size of hollow silica-alumina spheres and their catalytic activity for hydrolytic dehydrogenation of ammonia borane (College of Science and Technology, Nihon University) TOYAMA, Naoki; UMEGAKI, Tetsuo; XU, Qiang; KOJIMA, Yoshiyuki

**1PA-013** Effect of zirconia addition on complete oxidation of toluene over ceria-zirconia (Nagoya Institute of Technology) OZAWA, Masakuni; YUZURIHA, Hiroki; HANEDA, Masaaki

**1PA-014** Effect of zirconia addition on complete oxidation of toluene over ceria-zirconia (Nagoya Institute of Technology) OZAWA, Masakuni; OUKOUCHI, Takahiro; HANEDA, Masaaki; KAMIUCHI, Naoto

**1PA-015** CO oxidation and microstructure of Pt-Sn/ceria catalysts (Nagoya Institute of Technology) KAMIUCHI, Naoto; HANEDA, Masaaki; OZAWA, Masakuni

**1PA-016** Degradation of acetic acid over  $\text{WO}_3$  photocatalysts loaded prussian blue analogues (Nagoya Municipal Ind. Res. Inst.) KISHIKAWA, Nobuyuki; TSUGE, Hiroyasu; KAWASE, Satoru; ONO, Satomi

**1PA-017** Synthesis of active carbon supported  $\text{TiO}_2$  powder derived from titanium alkoxide and evaluation of its photocatalytic activity (Nagoya Municipal Ind. Res. Inst.) KAWASE, Satoru; KISHIKAWA, Nobuyuki; TSUGE, Hiroyasu; ONO, Satomi

**1PA-018** Titania coating using methyltriethoxysilane binder (Nagoya Municipal Ind. Res. Inst.; Taiyu Concrete Industries. Co. Ltd.) ONO, Satomi; KISHIKAWA, Nobuyuki; TSUGE, Hiroyasu; KAWASE, Satoru; KAWANAKA, Hirokazu; TSUDA, Hiromi

**1PA-019** Effect of Co-catalyst of Tungsten(VI) Oxide Photocatalysts for the Selective Hydroxylation of Benzene to Phenol (Grad School of Eng., Kyoto Univ.) KAMEI, Hiromu; TOMITA, Osamu; HIGASI, Masanobu; HOSOKAWA, Saburo; WADA, Kenji; ABE, Ryu

**1PA-020** Development of two-step water-splitting systems employing nano-interlayer space of layered metal oxide as selective reaction sites (Grad. School of Eng., Kyoto Univ.) SUZUKI, Hajime; HIGASI, Masanobu; HOSOKAWA, Saburo; WADA, Kenji; ABE, Ryu

**1PA-021** Photocatalytic Activity of Metal-modified Graphitic-like Carbon Nitride ( $\text{g-C}_3\text{N}_4$ ) under Visible Light. (AIST) SANO, Taizo; TERAMOTO, Yoshiyuki; HIRAKAWA, Tsutomu; NEGISHI, Nobuaki; TAKEUCHI, Koji

**1PA-022** The photostability evaluation of the photoelectrode based on the automated semiconductor screening system (AIST; Tokyo University of Science) SAITO, Rie; FUJIMOTO, Issei; WANG, Nini; MISEKI, Yugo; SAYAMA, Kazuhiro

**1PA-023** Visible-light induced hydrogen production from glycerin on the carbon nitride-sensitized N-TiO<sub>2</sub> photocatalyst (Osaka Institute of Technology) HIKIDA, Kouji; HIGASHIMOTO, Shinya; SAKATA, Yoshihisa

**1PA-024** Effects of surface modifications on photoelectrochemical properties of  $\text{Ta}_3\text{N}_5$  electrode for water splitting (The Univ. of Tokyo) OKADA, Takuya; MINEGISHI, Tsutomu; DOMEN, Kazunari

**1PA-025** Photocatalytic characteristics of Sr- or La-doped  $\text{BiVO}_4$  synthesized by the polymerized complex method (Tokyo City Univ.; Energy Functional Material Chemistry Lab.) OKAWA, Masashi

**1PA-026** Photocatalytic oxygen evolution on various elements doped iron oxide in an aqueous silver nitrate solution under visible light irradiation (Tokyo University of Science; AIST) MAJIMA, Yu; MISEKI, Yugo; GUNJI, Takahiro; SAYAMA, Kazuhiro

**1PA-027** Solar water splitting with highly-efficient  $\text{WO}_3/\text{BiVO}_4$  composite photoelectrode (Tokyo University of Science; AIST) FUJIMOTO, Issei; WANG, Nini; SAITO, Rie; MISEKI, Yugo; GUNJI, Takahiro; SAYAMA, Kazuhiro

**1PA-028** Distribution of Au particles in  $\text{Au}/\text{TiO}_x$  complex particles prepared by reverse micelle method and its photodecomposition for methyl orange. (Toyama national college of technology; Department of Applied Chemistry and Chemical Engineering) TAKAYANAGI, Mariko; IMAI, Yoko; TAJIMA, Kazuo

**1PA-029** Photocatalytic surface modification by photodeposition (Toyota Tech.Inst.) TAKAGI, Masaki; INUKAI, Manabu; KAMIYA, Itaru; YAMAKATA, Akira

**1PA-030** Preparation of Pt loaded  $\text{WO}_3$  particles and their photocatalytic properties (Department of Applied Chemistry, College of Life Science, Ritsumeikan University) FUJII, Aya; MENG, Zhicong; KINUTA, Hiroto; YOKOMIZO, Yuji; KASUMI, Aya; SANADA, Tomoe; KOJIMA, Kazuo

**1PA-031** Preparation of nitrogen doped  $\text{TiO}_2$  films embedded with Au nanoparticles and their photocatalytic activities under visible light. (Ritsumeikan University) YOKOMIZO, Yuji; YOGI, Chihiro; SANADA, Tomoe; WADA, Noriyuki; KOJIMA, Kazuo

**1PA-032** Investigation of Water Content by Partial Oxidation of *trans*-

- Stilbene using a TiO<sub>2</sub> Photocatalyst (Osaka Pref. Univ. College of Tech.) MIYAKE, Teruyuki; HIGASHIDA, Suguru; MATSUMURA, Michio; OKETANI, Ryusei
- 1PA-033** Formation of a Lactone Ring from Diphenic Acid using a TiO<sub>2</sub> Photocatalyst (Osaka Pref. Univ. College of Tech.) OKETANI, Ryusei; HIGASHIDA, Suguru; MATSUMURA, Michio
- 1PA-034** Partial Oxidation reaction of Diphenylacetylene using a TiO<sub>2</sub> Photocatalyst (Osaka Pref. Univ. College of Tech.) MIYAGAWA, Kazuya; HIGASHIDA, Suguru; MATSUMURA, Michio; HASHIMOTO, Yuichiro
- 1PA-035** Oxidative Cleavage of Stilbene Derivatives with a TiO<sub>2</sub> Photocatalyst (Osaka Prefecture University College of Technology) HASHIMOTO, Yuichiro; HIGASHIDA, Suguru; MATSUMURA, Michio; MIYAGAWA, Kazuya
- 1PA-036** Photocatalytic reduction of nitriles over metal loaded titanium(IV) oxide (Kinki Univ.) IMAMURA, Kazuya; HASHIMOTO, Keiji; KOMINAMI, Hiroshi
- 1PA-037** Photocatalytic reduction of nitroaromatics on rutile type titanium dioxide (Osaka Univ.) TOGAWA, Yoshiki; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki
- 1PA-038** Photocatalytic Production of Hydrogen Peroxide with Aromatic Alcohols as Hydrogen Sources (Osaka Univ.) KANAZAWA, Syunsuke; SUGANO, Yoshitune; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki
- 1PA-039** Photocatalytic property of Ba-Ti mixed oxide to the overall splitting of water (Grad. Sch. Sci. Eng., Yamaguchi Univ.) SAKATA, Yoshihisa; YAMAMOTO, Tomohiko; HORI, Takayuki; IMAMURA, Hayao
- 1PA-040** Shape Effects of Goethite Particles on Photocatalytic Activity (Aomori Pref. Industrial Technology Research Center) KAKUTA, Seiji; OKAYAMA, Toru
- 1PA-041** Catalytic synthesis of 3-methylpyridine from piperidine and methanol over solid-state molybdenum halide clusters (RIKEN; Kitasato University; Saitama University) KAMIGUCHI, Satoshi; YAMADA, Hitomi; YUGE, Hidetaka; KAJIO, Ryu; NAGASHIMA, Sayoko; CHIHARA, Teiji
- 1PA-042** Development of polymer catalyst having an acidic ionic liquid structure (IMRAM, Tohoku Univ. IMCE, Kyushu Univ.) TOMIDA, Daisuke; KOBAYASHI, Nobuhisa; ISHIKAWA, Tatsuya; OKANO, Takashi; QIAO, Kun; OTSUKA, Hideyuki; TAKAHARA, Atsushi; YOKOYAMA, Chiaki
- ### Environmental and Green Chemistry, Geo and Space Chemistry
- 1PA-043** Long-term trends of airborne particulates of residential area in Sapporo. (Local Independent Administrative Agency Hokkaido Research Organization, Institute of Environmental Sciences) AKUTAGAWA, Tomoko; SAKAI, Shigekatsu; MATSUMOTO, Yutaka
- 1PA-044** Seasonal variation of atmospheric aerosols and effect of Kosa (Meijo University) KATOU, Hironao; SAKAMAKI, Fumio
- 1PA-045** Investigation of pollution map of atmospheric pollutants in Ho Chi Minh City in September, 2012 (Sch. Eng., Osaka Pref. Univ.; Vietnam National University, Ho Chi Minh) TAKENAKA, Norimichi; KUMADANI, Kumi; FUJIWARA, Hiroshi; OMORI, Tatsuya; TOGO, Susumu; SAKAMAKI, Ken; TO, Thi Hien; PHAN, Quang Thang
- 1PA-046** Development of the passive sampler for gaseous nitrous acid (HONO). (Grad. Sch. Eng., Osaka Pref. Univ.) SAKAMAKI, Ken; HIRANO, Shingo; NAGATA, Makoto; OHYAMA, Masayuki; BANDOW, Hiroshi; TAKENAKA, Norimichi
- 1PA-047** Copper Corrosion Phenomenon as a Measure of Atmospheric Environment in Japan, Korea and Taiwan. (Hyogo Univ. of Teacher Educ.) HAFUKA, Kenji; U, Hirotsuka; OZEKI, Toru; NAKATA, Ryuji; KIM, Dong-uk; LIM, Hee-jun; KIM, Sung-hoon; CHEN, Kelvin
- 1PA-048** Removal of bisphenol derivatives by combined use of *Aspergillus oryzae* tyrosinase and chitosan (Nihon Univ.; College of Industrial Technology) TSUJI, Ryohei; KIMURA, Yuji; KASHIWADA, Ayumi; YAMADA, Kazunori; HATA, Yoji; SHIOTA, Kazunori
- 1PA-049** Quinone oxidation of bisphenol A and its derivatives by polyphenol oxidase and its immobilization (Nihon Univ.; College of Industrial Technology) SAKAI, Kosuke; KIMURA, Yuji; KASHIWADA, Ayumi; YAMADA, Kazunori
- 1PA-050** Treatment System of Automobile Paint Waste Water using Melamine-degrading Bacteria. (Toyota Central R & D Labs., INC.) SUGIYAMA, Hidehiko; TSUJI, Masao; KAJIYA, Syuji; ARATA, Kousuke; FUJIMOTO, Kunihiko; IMAEDA, Takao
- 1PA-051** Characterization of a chemiluminescence detection COD measuring instrument and continuous measurement of COD natural water (Grad. Sch. Eng., Osaka Pref. Univ.) NISHIKAWA, Haruka; HASHIMOTO, Syohei; TAKENAKA, Norimichi
- 1PA-052** Newly chemical contamination generated from polystyrene in marine debris (Nihon Univ., College of Science and Technology, Department of Chemistry) KOIZUMI, Koshiro; SATO, Hideto; OKABE, Akifumi; TOGAWA, Sachio; SAIDO, Katsuhiko
- 1PA-053** Photocatalytic Decomposition of Low Degradable Organic Compounds in Air Micro-Bubble Water Generated by a Pressurized Dissolution Method. (National Institute of Advanced Industrial Science and Technology (AIST)) HIRAKAWA, Tsutomu; MURAKAMI, Yoshinori; NISHIMOTO, Chifumi; TERAMOTO, Yoshiyuki; KIM, Hyun-ha; SANO, Taizo; NEGISHI, Nobuaki; TAKEUCHI, Koji
- 1PA-054** Chromium absorption ability and growth reaction of plants in a heavy metal-contaminated soil (Toin University of Yokohama) YOKOYAMA, Kazunori; KURIYAMA, Kota; WAKUI, Shiro; TOROBU, Shuzo; NAITO, Satoshi; YOKOTSUKA, Toru; ASAI, Toshimitsu; IJIMA, Kentaro; MORINAGA, Shigeo
- 1PA-055** Carbonization analysis of humic substances using <sup>13</sup>C solid-state NMR (Kanazawa Univ., Science) HOSHIBA, Ayumi; OHASHI, Ryutarou; IDA, Tomonori; MIZUNO, Motohiro
- 1PA-056** Clarification mechanism of Copper Hexacyanoferrate to adsorb Cs (National Institute of Advanced Industrial Science and Technology, University of Tsukuba) ISHIGAMI, Kenta; TANAKA, Hisashi; BANDO, Kyoko; TAKAHASHI, Akira; KAWAMOTO, Tohru
- 1PA-057** Relationship between the structure and the toxicity to *Bacillus subtilis* subsp. *subtilis* of monohalogenated anilines (Department of Chemistry, Graduate School of Science, Tokai Univ., Japan) MISHIMA, Jun; NAKAGAWA, Sachiko; ISHIHARA, Yoshimi; TAKANO, Jiro
- 1PA-058** Adsorptive recovery of rare metals in the mining city with woody biomass. (Department of Applied Chemistry, Faculty of Engineering, Chubu Univ.) HATTA, Masaru; HONDA, Keisuke; MIZUNO, Yuuya; MIYAUCHI, Toshiyuki
- 1PA-059** Preparation of Woody Functional Containing Phosphoric Acid and Selectivity for Mg<sup>2+</sup> and Alkaline Earth Metal Ions. (Department of Applied Chemistry, Faculty of Engineering, Chubu Univ.) MIZUNO, Yuuya; HATTA, Masaru; HONDA, Keisuke; MIYAUCHI, Toshiyuki
- 1PA-060** Transfer Hydrogenation of Organic Substrates in Water Containing a Nonionic Surfactant (Tokai Univ.) OBA, Makoto; SANO, Haruki; NISHIYAMA, Kozaburo
- 1PA-061** Systematization of Green Chemistry (Graduate School of Science, The University of Tokyo, GSC Social Cooperation Laboratory) MORI, Yuichiro; TAMURA, Hirokazu; KOBAYASHI, Shu
- 1PA-062** Oxidative Degradation of Brominated Flame Retardants Catalyzed by a SBA-15 Supported Iron(III) Porphyrin (Hokkaido University) ZHU, Qianqian; MAENO, Shohei; NISHIMOTO, Ryo; MIYAMOTO, Takafumi; FUKUSHIMA, Masami
- 1PA-063** The effect of oxidative decomposition by silica supported iron-phthalocyanine catalyst for brominated retardant (Hokkaido University) MAENO, Shohei; MIYAMOTO, Takafumi; ZHU, Qianqian; FUKUSHIMA, Masami
- 1PA-064** Oxidative degradation of tetrabromobisphenol A by iron(III)-porphyrin catalyst supported on ion-exchange resins (Hokkaido University) MIYAMOTO, Takafumi; NISHIMOTO, Ryo; MAENO, Syohei; ZHU, Qianqian; FUKUSHIMA, Masami
- 1PA-065** Metal extraction capability based on hybrid polymers consisted of BETA-cyclodextrin and diatomite (Akita Univ.) ULZII, Munkhtuya; KONDO, Yoshihiko; HAMADA, Fumio
- 1PA-066** High Selective Extraction Ability for Platinum Cation Based on Thiocalix[4]arene Derivatives (Akita Univ.) KONDO, Yoshihiko; FUJITA, Ayumu; YAMADA, Manabu; HAMADA, Fumio
- 1PA-067** Visible-light photocatalytic reaction of gold loaded rutile TiO<sub>2</sub> using localized surface plasmon resonance (Kyushu Institute of Technology) MIYAZAKI, Takeshi; MURAKAMI, Naoya; OHNO, Teruhisa
- 1PA-068** Composite photocatalyst of g-C<sub>3</sub>N<sub>4</sub> and WO<sub>3</sub> with improved visible light photocatalytic activities (Kyushu Institute of Technology) JIN, Zhengyuan; MURAKAMI, Naoya; OHNO, Teruhisa
- 1PA-069** CO<sub>2</sub> reduction of Ag Co-catalyst loaded brookite type TiO<sub>2</sub> photocatalyst (Kyushu Institute of Technology) HIGO, Takayoshi; MURAKAMI, Naoya; OHNO, Teruhisa
- 1PA-070** Preparation of Electrospun Strontium Titanate Nanofibers for Hydrogen Production (Kyoto Univ.) MACARAIG, Lea; SAGAWA, Takashi
- 1PA-071** Electronic State Calculation of an Oxygen-Evolving Center of Multinuclear Mn Complex for the Artificial Photosynthesis (Kagawa Univ.; Okayama Univ. of Sci.) ISHIBASHI, Takahiro; YOSHIDA, Yuuki; MATSUSHIMA, Ryo; SAKANE, Genta; ISHII, Tomohiko
- 1PA-072** The diagnosis of the growing condition by the assay of glucose and chlorophyll production quantity in sedum (Faculty of Biomedical Engineering, Toin Univ. of Yokohama; Department of technology, Toin Univ. of Yokohama; Graduate School of Engineering, Toin Univ. of Yokohama) NANAMEKI, Toshihide; KITAMI, Haruka; IJIMA, Kentaro; SAITO, Kiyoshi
- 1PA-073** Membrane Conductivity of Tomato Fruit Cuticle Membrane in Aqueous Berberine System (Fac. Science, Kyushu Univ.) TAGUCHI, Soshi; NOMURA, Kazuo
- ### Theoretical Chemistry, Informatics Chemistry and Computational Chemistry
- 1PA-075** Theoretical study of geometric isomers of fluvoxamine (Dept. Information and Technology; Shohoku College) ODIA, Kei; ITO, Etsuro
- 1PA-076** Constrained DFT Calculation on Triplet Electron Transfer Process of PPV (Univ. of Tsukuba) AIKAWA, Koharu; TOMOTSU, Norio; MORIHASHI, Kenji
- 1PA-077** Intramolecular electron transfer in polar solvents calculated by

- CDFT (Univ. of Tsukuba) MURAOKA, Satoshi; MORIHASHI, Kenji
- 1PA-078** Assignment of the excited states of DyF by 4-component relativistic CI (Chukyo Univ.; Nagoya City Univ.) YAMAMOTO, Shigeyoshi; TATEWAKI, Hiroshi
- 1PA-079** Theoretical Study of Electronic Structure of Finite Size Graphene: Analysis based on Clar Structure and DFT B3LYP calculations (Meiji Pharmaceutical Univ.) MIZOGUCHI, Noriyuki
- 1PA-080** Theoretical study on the degradation of bisphenol A by ferrate(VI) (IMCE) MORI, Eiichiro; KAMACHI, Takashi; YOSHIZAWA, Kazunari
- 1PA-081** Theoretical Study of the Oxidation of Methanol to Formaldehyde by a Ruthenium(IV)-Oxo species (IMCE, Kyushu Univ.) TAKAHASHI, Shoya; ABE, Takafumi; SHIOTA, Yoshihito; KOJIMA, Takahiko; YOSHIZAWA, Kazunari
- 1PA-082** Theoretical study of pyrolysis of furan catalyzed by Ga-ZSM-5 (IMCE, Kyushu Univ.) SUZUKI, Tatsuya; TAKAHASHI, Shoya; SHIOTA, Yoshihito; YOSHIZAWA, Kazunari
- 1PA-083** Estimating Activation Free Energy for Perfluoroaldehyde Hydration (National Institute of Advanced Industrial Science and Technology) SETOKUCHI, Osamu
- 1PA-084** Accelerated MD verification of Kramers theory on the Isomerization Mechanism of Azobenzene (Industrial Tech. Center of Nagasaki; Univ. of Oita) SHIGEMITSU, Yasuhiro; OHGA, Yasushi
- 1PA-085** Exploration of isomers by the GRRM method with a limited search option of LADD (Wakayama Univ.; Toyota Phys. Chem. Res. Inst.) KODAYA, Yoshitomo; YAMAKADO, Hideo; OHNO, Koichi
- 1PA-086** Theoretical Study on Isotope-Selective Rotational Excitation of the LiCl Molecule by an Optical Frequency Comb (Japan Atomic Energy Agency) ICHIHARA, Akira; MATSUOKA, Leo; KUROSAKI, Yuzuru; YOKOYAMA, Keiichi
- 1PA-087** Theoretical study of Supramolecular function of phenyl boronic acid-appended azo probe sensors for glucose (Fac. Sci., Sophia Univ.) SHIMADA, Ryota; NANBU, Shinko; ISHIDA, Toshimasa
- 1PA-088** Application of Gaussian-based multiconfiguration nuclear wavepacket method to the tunneling dynamics of molecular systems (Tohoku University Graduate School of Science) ARAI, Yuta; YAMAZAKI, Tatsuto; KANNO, Manabu; KONO, Hirohiko
- 1PA-089** Theoretical Study on Mechanism of Lipid Bilayer Permeability of Basic Peptides (Faculty of Pharmacy, Yasuda Women's University) OGASAWARA, Marin; OKUMURA, Misaki; SHIMODO, Yasuyo; SHIBATA, Akira
- 1PA-090** An Efficient Procedure to Locate Buried Water Molecules in Proteins (IMCE, Kyushu University) OGATA, Tatsunobu; KAMACHI, Takashi; YOSHIZAWA, Kazunari
- 1PA-091** A Density Functional Study on Hydration Structures of Metal Ions with 16 Water Molecules in the Cavity of the KcsA Potassium Channel (Mie Univ.) ITOH, Mizuki; ITOH, Shunn; MITANI, Masaki; YOSHIOKA, Yasunori
- 1PA-092** Theoretical study on one-electron oxidation and proton transfer at transition from S2 to S3 states of OEC (Mie Univ.) ICHINO, Tomoya; MITANI, Masaki; YOSHIOKA, Yasunori
- 1PA-093** A Density Functional Study on Model Systems for Proton Transport Pathway in the EcC1C transporter (Mie Univ.) MITANI, Masaki; AKIYAMA, Yui; TACHIBANA, Akira; YOSHIOKA, Yasunori
- 1PA-094** Data Mining of Loop Structure in Proteins Using Pattern Processing of Conformational Code (AIST) IZUMI, Hiroshi; WAKISAKA, Akihiro
- 1PA-095** Catalytic Mechanism of ODCase based on Hybrid Computational Modeling (AIST NRI; Kyoto Univ.) ISHIDA, Toyokazu; FUJIHASHI, Masahiro
- 1PA-096** Theoretical Study on Catalytic Mechanism of Nitrile Hydratase (Univ. of Tsukuba) KAYANUMA, Megumi; HANAOKA, Kyohei; KONDO, Daiki; TAGUCHI, Masahiko; SHOJI, Mitsuo
- 1PA-097** Withdrawn
- 1PA-098** A QM/MM study on the electronic structure of the oxygen-evolving complex at the S2 state (Univ. of Tsukuba; Graduate School of Pure and Applied Sciences) SHOJI, Mitsuo; ISOBE, Hiroshi; YAMANAKA, Shusuke; YAMAGUCHI, Kizashi; SHEN, Jian-Ren
- 1PA-099** Theoretical Study on the Interaction between HIV-1 Antibody 2G12 and Glycans Ligand (Kitasato Univ) UENO-NOTO, Kaori; KOYAMA, Yuka; TAKANO, Keiko
- 1PA-100** Theoretical Study on Proton Transfer in Ribosomal Peptide Bond Formation (Wakayama Med. Univ.; Nagoya Women's Univ.) FUKUSHIMA, Kazuaki; IWAHASHI, Hideo; NISHIKIMI, Morimitsu
- 1PA-101** Theoretical study of direct decomposition of nitric oxide by Fe ion exchanged zeolite (The Univ. of Tokyo) MIZUKAMI, Noriaki; USHIYAMA, Hiroshi; YAMASHITA, Koichi
- 1PA-102** Structure determination of a spin-labeled DNA duplex by Molecular Mechanics calculations and pulse-ELDOR measurements (Graduate School of Science, Osaka City University; The Institute of Scientific and Industrial Research, Osaka University; Graduate School of Engineering Science, Osaka University; FIRST) YAMAMOTO, Satoru; NAKAZAWA, Shigeaki; SUGISAKI, Kenji; ATSUMI, Hiroshi; MAEKAWA, Kensuke; SATO, Kazunobu; TOYOTA, Kazuo; SHIOMI, Daisuke; NAKATANI, Kazuhiko; KITAGAWA, Masahiro; TAKUI, Takeji
- 1PA-103** GlycoNAVI: Three-dimensional carbohydrate structure tool (The Noguchi Institute) YAMADA, Issaku; MIZUNO, Mamoru

- 1PA-104** Searching for relative arrangements of molecules- A formaldehyde trimmer - (Wakayama Univ., Toyota Phys. & Chem. Reserch Institute.) SAWADA, Yu; YAMAKADO, Hideo; OHNO, Koichi

Friday, March 22, AM

(12 : 30~14 : 00)

## Organic Chemistry -Reaction and Synthesis- Organic Photochemistry

- 1PB-001** Asymmetric Conversion of *N*-Acyl- $\alpha$ -dehydro(9-phenanthryl) alaninamides into Cyclization Intermediates via Photoinduced Electron Transfer (Kanagawa University) KAWAI, Kaoru; MATSUKI, Shin-ichi; IGARASHI, Tetsutaro; SAKURAI, Tamamitsu
- 1PB-002** Cross-Photocyclodimerization of 2-Anthracenecarboxylic Acid and 2,3,6,7-Tetraphenylanthracene (Graduate School of Engineering, Osaka Univ.) YAMADA, Fuma; FUKUHARA, Gaku; YANG, Cheng; MORI, Tadashi; INOUE, Yoshihisa
- 1PB-003** Valence Isomerization and Deoxygenation Reactions of Cyclic Nitrones upon Photoirradiation (Univ. of Tokushima) NISHINO, Satoshi; NISHIUCHI, Masaki; KAWAMURA, Yasuhiko
- 1PB-004** Photochemical Reactions of 1-Alkyl-5-methylsatin with alkenes (Aichi Institute of Technology) OKAMOTO, Misaki; TATUGI, Jiro
- 1PB-005** Supramolecular Enantiodifferentiating Photocyclodimerization of 2-Anthracenecarboxylate with Proteins and Protein-Polymer Hybrids as Chiral Reaction Medias (IMRAM, Tohoku Univ.) MINATO, Sakie; MIYATI, Ayumi; SUGAWARA, Yui; SAKAMOTO, Seiji; NAKAKIDO, Makoto; UI, Mihoko; ARAKI, Yasuyuki; NISHIJIMA, Masaki; TSUMOTO, Kouhei; KINBARA, Kazushi; INOUE, Yoshihisa; WADA, Takehiko
- 1PB-006** Synthesis of photolabile protecting groups with a high performance of the two-photon absorption ability (Hiroshima Univ.;JST-CREST) MOTOISHI, Ryusei; ABE, Manabu
- 1PB-007** Photo-Fries Rearrangement of 4-*tert*-Butylphenol Derivatives Bearing Acyloxyaryl Group in Their Film State and Refractive-Index Change. (Kanagawa univ) ARAI, Taichi; IGARASHI, Tetsutaro; SAKURAI, Tamamitsu
- 1PB-008** Synthesis of Hydrogen-Bonding Network Crystal Exhibiting Photo-Responsive Proton Coupled Electron Transfer (Graduate School of Science, Osaka University) HOSOI, Katsuma; HIRAO, Yasukazu; KURATA, Hiroyuki; KUBO, Takashi
- 1PB-009** Photosensitized reactions of ethyl 3-amino-3-aryl-2-propenoates in the presence of 10-methylacridinium salt (2) (Kanagawa Univ.) YOSHIDA, Yuhki; ISHIDA, Yosuke; IGARASHI, Tetsutaro; SAKURAI, Tamamitsu
- 1PB-010** Topochemiluminescence of Hydroxyaryl-substituted Dioxetanes (Kanagawa Univ. Dept. of Chemistry) TAKATSUKA, Hisaku; WATANABE, Nobuko; IJUIN, Hisako; MATSUMOTO, Masakatsu
- 1PB-011** Synthesis and Spectroscopic Property of Fluorescent Dye Designed from Firefly Bioluminescence System (Univ. of Electro-Communications) UEHARA, Takuya; MAKI, Shojiro; NIWA, Haruki; HIRANO, Takashi
- 1PB-012** Dioxetane-based chemiluminescent compounds bearing an  $\omega$ -functionalized linker (Kanagawa Univ. Dept. of Chemistry) WATANABE, Nobuko; IRIE, Urara; IJUIN, Hisako; YAMAGUCHI, Kazuo; MATSUMOTO, Masakatsu
- 1PB-013** Temperature dependence of thermal back reaction of mechano-fluorochromism in Difluoroboron Avobenzene (Shinshu Univ.) SAGAWA, Takehiro; ITO, Fuyuki
- 1PB-014** Emission of the Trimethylenemethane Biradical Generated from 2,2-Bis(4-biphenyl)-1-methylenecyclopropane (Sch. of Eng., Osaka Pref. Univ.; Grad. Sch. of Eng., Osaka Pref. Univ.; RIMED, Osaka Pref. Univ.) KIDO, Taiki; MATSUI, Yasunori; OHTA, Eisuke; MIZUNO, Kazuhiko; IKEDA, Hiroshi
- 1PB-015** Cascade Light-harvesting Functionality of Multichromophoric Dendrimers Containing Anthracene, Perylene and Rhodamine Units. (Faculty of Engineering, Shizuoka University) TAKAHASHI, Masaki; NUMATA, Yuuki; TAKEKAWA, Kohei; SENGOKU, Tetsuya; YODA, Hidemi

## Organic Chemistry -Reaction and Synthesis- Organic Electron Transfer Chemistry

- 1PB-017** Synthesis of Novel NAD<sup>+</sup> Derivatives Toward the Realization of a Stable Proton/Electron Transfer (Graduate School of Science, Osaka University) TERAOKA, Mitsuru; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KURATA, Hiroyuki; KUBO, Takashi

## Organic Chemistry -Reaction and Synthesis- High-Throughput Synthesis

- 1PB-019** Dehydrative Friedel-Crafts Type Reactions of Epoxides Using Microwave Irradiation and Solid Acid Catalysts (Natl. Inst. of Advanced Industrial Science and Technology (AIST)) YAMASHITA, Hiroshi; HATORI, Makiko
- 1PB-020** Evaluation of Dielectric Properties of Organosilicon Compounds and Their Reactions under Microwave Irradiation (Natl. Inst. of Advanced



- Industrial Science and Technology (AIST)) YAMASHITA, Hiroshi; HATORI, Makiko; KOBASHI, Hiroko; ARASAWA, Hiroko
- 1PB-021** Development of flow microreactor for Glaser coupling (IMCE, Kyushu Univ., Grad. School Sciences, Kyushu Univ.) SHIRAKURA, Ryo; TAO, Keisuke; GOTO, Kenta; SHINMYOZU, Teruo
- 1PB-022** Direct Reduction of Alcohols and Olefins by Saccharides in Supercritical Water (KUT) OKIMOTO, Yuki; WANG, Pengyu; KOBIRO, Kazuya
- 1PB-023** Selective synthesis of PCBM using flow microreactor (Osaka Municipal Tech. Res. Inst.; Ryukoku Univ.) IWAI, Toshiyuki; HOSOKAWA, Megumi; IWASAWA, Tetsuo; MATSUMOTO, Fukashi; HIDA, Koichi; MORIWAKI, Kazuyuki; TAKAO, Yuko; ITO, Takatoshi; MIZUNO, Takumi; OHNO, Toshinobu
- 1PB-024** Asymmetric aldol reactions using polymer-tethered organocatalyst (Sophia Univ.) INOUE, Takahiro; ASADA, Takumi; KOBAYASHI, Go; SUZUKI, Noriyuki; MASUYAMA, Yoshiro
- 1PB-025** Continuous Flow System with a Polymer-Supported Dirhodium(II) Complex: Application to Enantioselective Carbonyl Ylide Cycloaddition Reactions (Hokkaido University) TAKEDA, Koji; OOHARA, Tadashi; SHIMADA, Naoyuki; NAMBU, Hisanori; HASHIMOTO, Shunichi

## Energy and Related Chemistry

- 1PB-027** Photovoltaic Properties of Dye-sensitized Solar Cells using Quaternary Phosphonium Ionic Liquids as Electrolytes (Industrial Technology Center of Wakayama Prefecture) MACHITANI, Koji; SAOMOTO, Hitoshi; MORI, Takeshi; TSUNASHIMA, Katsuhiko
- 1PB-028** Dye Sensitized Solar Cells using Pyrazoline Dyes with Various Substituents (Industrial and Technology Center of Wakayama Prefecture; NIPPON CHEMICAL WORKS CO., LTD.) MORI, Takeshi; SAOMOTO, Hitoshi; MACHITANI, Koji; INOUE, Kaname; KOSHITANI, Takeshi; AOKI, Yasunori
- 1PB-029** Chemical Bias Assisted Photoelectrochemical Zero Bias Hydrogen Generation Utilizing Self-Assembled TiO<sub>2</sub> Nanoarchitecture electrode (Fukushima-NCT) SATO, Masataka; KAMO, Yoichi; SAKAMAKI, Kenji
- 1PB-030** Autocatalytic Preparation of Nano-Semiconductor Electrode for Solar Energy Conversion (7) (Fukushima-NCT) URAZUMI, Ryo; SAKAMOTO, Manami; SHIKE, Ikuro; YOKOTA, Eri; FUJISAWA, Hirofumi; SAGAWA, Yuka; SAKAMAKI, Kenji
- 1PB-031** A computer simulation of enzymatic biofuel cell and its application to predicting output limiting factor (AISIN COSMOS R&D Co., Ltd.) NAKAOKI, Yuichiro; ISEZAKI, Yuka; UNO, Shigeyasu
- 1PB-032** Development of Inverted Organic Photovoltaic Cells Using Solution-processed Metal Oxide as Hole Collection Layer (Kyushu Institute of Technology) HAMADA, Keisuke; MURAKAMI, Naoya; OHNO, Teruhisa
- 1PB-033** Performance evaluation of organic thin film solar cells using amorphous vanadium oxide as a hole transport layer (Kyushu Institute of Technology) NAKANO, Hiroto; MURAKAMI, Naoya; OHNO, Teruhisa
- 1PB-034** Fabrication and evaluation of organic thin-film solar cells using metal oxides as buffer layers (Kyushu Institute of Technology) MURAKAMI, Daiki; MURAKAMI, Naoya; OHNO, Teruhisa
- 1PB-035** Preparation of the CuInS<sub>2</sub>/TiO<sub>2</sub> film using the wet process and their application to the solar cell (Osaka Institute of Technology) HIGASHIMOTO, Shinya; INUI, Shigeki; AZUMA, Masashi
- 1PB-036** Organic Photovoltaics Using Arylated Fullerene Derivatives (Osaka Municipal Tech. Res. Inst.; Ryukoku Univ.) MATSUMOTO, Fukashi; TAKASE, Eiji; IWASAWA, Tetsuo; HIDA, Koichi; IWAI, Toshiyuki; MORIWAKI, Kazuyuki; TAKAO, Yuko; ITO, Takatoshi; MIZUNO, Takumi; OHNO, Toshinobu
- 1PB-037** Creation of Novel Methanofullerenes Having a Bithienyl Group and the Application to Photovoltaic Devices (Osaka Municipal Technical Research Institute; Faculty of Science and Technology, Ryukoku University) MORIWAKI, Kazuyuki; HARAYAMA, Ayata; IWASAWA, Tetsuo; HIDA, Koichi; MATSUMOTO, Fukashi; IWAI, Toshiyuki; TAKAO, Yuko; ITO, Takatoshi; MIZUNO, Takumi; OHNO, Toshinobu
- 1PB-038** Synthesis, Absorption, and Electrochemical Properties of Squaraine Dyes Connected with an Electron Acceptors on Their Terminals. (Graduate School of Engineering, Osaka Pref. Univ.) MINETA, Shohei; MAEDA, Takeshi; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki
- 1PB-039** Synthesis and Characterization of an Organic Dye with Tetrathienylcyclopentadienone Framework (Grad. Sch. of Eng., Osaka Pref. Univ.; Res. RIMED, Osaka Pref. Univ.) MATSUO, Kazuki; HORI, Tomohiro; OHTA, Eisuke; MIZUNO, Kazuhiko; IKEDA, Hiroshi
- 1PB-040** Study on Stacked Dye-sensitized Solar Cell Prepared by Low-temperature Fabrication Technology (Mie Pref. Industrial Research Inst.) MURAYAMA, Masaki
- 1PB-041** Synthesis of O-Acetylgalactosylated Fullerene and its Use in Organic Thin-film Solar Cell (Sojo Univ.; Phoenix; NISSAN CHEMICAL INDUSTRIES, LTD) YOSHITAKE, Masayoshi; YAGAMI, Akiyuki; KUWAHARA, Rempei; MIZUKI, Keiji; HATTA, Taizo; OOTANI, Naoki; YOSHIMOTO, Takuji
- 1PB-042** Synthesis of Novel Dyes having Trifluoromethylthiazole Acceptor and their Applications to Dye-sensitized Solar Cells. (Seikei University) IWATA, Satoru; KOBAYASHI, Shintaro; TANAKA, Kiyoshi
- 1PB-043** Development of TTF-acceptor hybrid molecules containing an oligothiophene spacer for the application to dye-sensitized solar cells (Grad. School of Sci., Osaka Pref. Univ.; Grad. School of Eng., Osaka Pref. Univ.) MIZUNO, Kotaro; HAMADA, Takafumi; FUJIWARA, Hideki; MAEDA, Takeshi; NAKAZUMI, Hiroyuki
- 1PB-044** Synthesis of TTF-based DA-type dyes and their application for organic solar cells (Grad. School of Sci., Osaka Pref. Univ.; Grad. School of Eng., Osaka Pref. Univ.) HAMADA, Takafumi; FUJIWARA, Hideki; MAEDA, Takeshi; NAKAZUMI, Hiroyuki
- 1PB-045** Synthesis of new TTF-BODIPY hybrid molecules and their application for dye-sensitized solar cells (Grad. School of Sci., Osaka Pref. Univ.; Grad. school of Eng., Osaka Pref. Univ.) OGASAWARA, Reiko; HAMADA, Takahumi; TSUJIMOTO, Keiji; FUJIWARA, Hideki; MAEDA, Takeshi; NAZUMI, Hiroyuki
- 1PB-046** Carbazole Dye with Crown Ether for Dye-Sensitized Solar Cells: Control the Local Ion Concentration at the TiO<sub>2</sub>/Dye/Electrolyte Interface (Univ. of Tsukuba; AIST) UEMURA, Yu; MURAKAMI, Takuro; KOURMURA, Nagatoshi
- 1PB-047** Charge transfer mechanism of dye-sensitized solar cells with hydrothermal nano clay electrolyte (RCAS, The Univ. of Tokyo) TOMITA, Mitsuru; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi
- 1PB-048** Preparation and photovoltaic characterization of dye-sensitized solar cells using nickel-plated polymer films as a counter electrode (Tokyo City Univ.; Energy functional material Chemistry lab.) YAMASHITA, Kyohei; TAKAHASHI, Masashi
- 1PB-049** Photovoltaic performance of dye-sensitized solar cells using carbon-coated film and polymer gel electrolyte (Tokyo City University; Energy of functional material chemistry laboratory) ISHIKAWA, Ryu; IIZUKA, Hirokazu; ISHIKAWA, Yasuto; SUZUKI, Jun; TAKAHASHI, Masashi
- 1PB-050** Photovoltaic performance of dye-sensitized solar cells using composite conductive polymer film as a counter electrode (Tokyo City Univ.; Energy Functional Material Chemistry Lab.) KUNIMASA, Satoshi; TAKAHASHI, Masashi
- 1PB-051** Thin-film Cu<sub>2</sub>SnS<sub>3</sub> Absorbers Using a Solution Process (Ritsumeikan Univ.) TAKEMURA, Yuki; MINEMOTO, Takashi
- 1PB-052** Electrochemical deposition of cuprous oxide on evaporated gold films (Ritsumeikan Univ.) HIRAI, Takeshi; KAKUTANI, Hotaka; SEPTINA, Wilman; IKEDA, Shigeru; MATSUMURA, Michio; NAKADA, Toshitaka
- 1PB-053** Thermoelectric Properties of Gold Nanoparticle-containing PEDOT: PSS Films (Tokyo Univ. of Science Yamaguchi) YOSHIDA, Akihito; JIRAVANICHANUN, Nattha; TOSHIMA, Naoki
- 1PB-054** Evaluation of Redox Battery Using Ionic Liquid Dissolved Iron Complex (Nihon University; RILNR, Tokyo Tech) TERAMOTO, Kazunori; IKEDA, Yasuhisa; NISHIDE, Toshikazu
- 1PB-055** Anhydrous Proton Conductivity for Organic-Inorganic Hybrid Electrolyte with Perfluorosulfonic-Acid Group (Toyota Central R&D Labs., Inc.) FUJITA, Satoru; HASEGAWA, Naoki; KOIWA, Akihiko; KAWASUMI, Masaya; INAGAKI, Shinji
- 1PB-056** Electronic Structure of Organic Compound and Theoretical Prediction of Wavelength of Absorption Spectrum (Kagawa Univ.; Okayama Univ. of Sci.) HAMANO, Kazuhiro; NAKATA, Tika; WATANABE, Youhei; OGAWA, Yuzuru; ISHII, Tomohiko; SAKANE, Genta
- 1PB-057** Sonochemical preparation of carbon-supported Pt catalysts: Effects of molecular weight of surfactants (UEC) SAKAKIBARA, Yukitarou; NAKAYAMA, Kennichi; HATANAKA, Shin-ichi; HAYASHI, Sigeo; IWASAWA, Yasuhiro
- 1PB-058** Sonochemical preparation of carbon-supported Pt catalysts: Dispersion status of nanoparticles and catalytic activity (UEC) NAKAYAMA, Ken-ichi; SAKAKIBARA, Yukitarou; HATANAKA, Shin-ichi; HAYASHI, Sigeo; IWASAWA, Yasuhiro
- 1PB-059** Promotion of a hydrogen production from iron and carbonated water by alumina and examination of pyrolysis condition of iron carbonate (Tokyo City University) OYAMA, Hitoshi; TORIYAMA, Tamotu; EBA, Hiromi
- 1PB-060** Electrocatalytic Activity of Pyrochlore Oxide Alternatives to Platinum Catalysts for PEFC Anodes and Their Single Cell Performances (Fac. of Eng., Tokyo Univ. of Sci.; Graduate School of Chem. Sci. and Tech., Tokyo Univ. of Sci.; Tokyo Natl. Col. of Tech.) FUJIWARA, Yoshinobu; YAMAMOTO, Toru; YAMAGIWA, Kiyofumi; AYATO, Yusuke; SHIROISHI, Hidenobu; KUWANO, Jun

Friday, March 22, PM

(15 : 00~16 : 30)

## Natural Products Chemistry

- 1PC-001<sup>#</sup>** Constituents of *Lactuca raddeana* var. *elata* (Ichinoseki National College of Technology) SATO, Kiyoko
- 1PC-002** Isolation of Flavonoids in *Coreopsis lanceolata* L. Petals and Their Synthesis with  $\beta$ -Ketophosphonates (Kinki Univ.) OKADA, Yoshiharu; SATAHIRA, Taisei; GAMI, Seiya; OKANO, Yuka; NOMURA, Masato
- 1PC-003** Synthesis of Gallotannins and their Radical-Scavenging Activity (Graduate School of Science, Osaka Prefecture University; National Institute of Radiological Sciences) IHAYA, Kota; NISHIDA, Kotaro; NAKANISHI,

- Ikuo; KOJIMA, Hideo
- 1PC-004** Synthetic Study towards the Total Synthesis of Plakortones via Stereoselective Cycloaddition Reaction (Faculty of Science and Technology, Aoyama Gakuin Univ.) SATOU, Syougo; TOYODA, Chikahiro; YAMADA, Takeshi; SUGIMURA, Hideyuki
- 1PC-005** Polyhydroxy-fatty Acid Derivatives from Glandular Trichome Exudate of *Uncarina grandidi* (Tokyo Tech) TANEMURA, Yuhei; ASAI, Teigo; OHYAMA, Kiyoshi; FUJIMOTO, Yoshinori
- 1PC-006** LC/MS/MS Analysis of proanthocyanidins from bark of *Ziziphus jujuba* (Graduate School of Science and Technology, Tokyo Institute of Technology) TAKAHASHI, Haruko; YANO, Takahisa; OHMORI, Ken; KUSUMI, Takenori; SUZUKI, Keisuke
- 1PC-007** New Triterpenes from the Exudate of Young Stipules of *Rosa Multiflora* (Tokyo Tech) YAMAGA, Yuko; NAKAMURA, Yuki; OHYAMA, Kiyoshi; FUJIMOTO, Yoshinori
- 1PC-008** Stereoselective approaches to axially chiral biphenyl derivatives possessing stereogenic center en route to the dermocanarins (School of Pharmacy, Tokyo Univ. of Pharmacy and Life Sciences; Department of Chemistry, Tokyo Institute of Technology) SAKAMOTO, Kayo; HORIKIRI, Hisanori; YAMAGUCHI, Satoru; YUYAMA, Daisuke; TAKAHASHI, Nobuyuki; SUZUKI, Keisuke; MATSUMOTO, Takashi
- 1PC-009** Chemical studies on blue-color development of *Nemophila menziesii* (Grad. Sch. Info. Sci., Nagoya Univ.) TOUJYOU, Kensuke; KITAHARA, Sayoko; YAMASHITA, Keiko; MORI, Mihoko; YOSHIDA, Kumi
- 1PC-010** Synthesis of 3-*O*-methylquercetin and their efficient transformation to corresponding anthocyanidins. (Grad. Sch. Info. Sci., Nagoya Univ.) KIMURA, Yuki; KATO, Ryo; OYAMA, Kin-ichi; KONDO, Tadao; YOSHIDA, Kumi
- 1PC-011** Synthetic studies on catechin derivatives using coumarin as a building block (Grad. Sch. Info. Sci., Nagoya Univ.) WATANABE, Noriyuki; OYAMA, Kin-ichi; YOSHIDA, Kumi
- 1PC-012** Synthetic studies on Strongylophorine analogs (Graduate School of Nanobioscience, Yokohama City Univ.) UCHIYAMA, Daiki; OIKAWA, Yuya; ISHIKAWA, Yuichi; OIKAWA, Masato
- 1PC-013** Production of Oxygenated  $\beta$ -Amyrins by Yeast Expression System of Several P450 Genes (Tokyo Tech) NASUDA, Masayuki; OHYAMA, Kiyoshi; FUJIMOTO, Yoshinori; FUKUSHIMA, Ery Odette; SEKI, Hikaru; MURANAKA, Toshiya
- 1PC-014** Acid Mediated Methyl Group Migration from C-13 to C-14 of Ecdysteroids (Tokyo Tech) MAEDA, Izumi; JAYASINGHE, Lalith; ASAI, Teigo; FUJIMOTO, Yoshinori
- 1PC-015** Biosynthesis of Tomatine, a Steroidal Alkaloi: Cholesterol 26-Aldehyde Intermediate during C-26 Amination. (Tokyo Tech) OKAWA, Akiko; OHYAMA, Kiyoshi; FUJIMOTO, Yoshinori
- 1PC-016** Substrate Specificity of Desmosterol Reductase from *Bombyx mori* (Tokyo Tech) TSUKAGOSHI, Yuki; OKAWA, Akiko; OHYAMA, Kiyoshi; FUJIMOTO, Yoshinori
- 1PC-017** Synthesis of optically active delta-lactones using amine additive lipase-catalyzed hydrolysis (Kitami Institute of Technology) SHIMOTORI, Yasutaka; AOYAMA, Masakazu
- 1PC-018** Diversity in chemical composition of *Stellera chamaejasme* in Sichuan Province of China. (Rikkyo Univ.) SHIRAI, Kei; OKAMOTO, Yasuko; TORI, Motoo; GONG, Xun; KURODA, Chiaki
- 1PC-019** Synthesis of various stereoisomers of functionalized bisabolane side-chain (Rikkyo Univ; RIKEN) HIRAI, Misaki; MIYAZAKI, Rurina; HIROTA, Hiroshi; KURODA, Chiaki
- 1PC-020** Synthetic Study Toward Spiroquinazoline (Grad Sch Sci, Nagoya Univ; WPI-ITbM, Nagoya Univ) ISHIKAWA, Hiroyuki; YANAGISAWA, Shuichi; YAMAGUCHI, Junichiro; ITAMI, Kenichiro
- 1PC-021** Crystal structure analysis of rare sugar molecule (Kagawa Univ.; Okayama Univ. of Sci.) OHGA, Shunsuke; KAYAHARA, Shizuka; TSUCHIYA, Kimina; SAKANE, Genata; ISHII, Tomohiko
- 1PC-022** Development of a Dual Affinity Probe System for the Detection of the Carbohydrate Binding Proteins Using Glycolipid-Gold nanoparticles (Tokyo Univ. of Agri. and Technol.) INAHARA, Masahiro; SAKURAI, Kaori; OKADA, Ayumi; ISHII, Shuto
- 1PC-023** Comparative Analysis on the Reactivity of Photoreactive Groups for Photoaffinity Labeling of the Carbohydrate Binding Proteins (Tokyo Univ. of Agri. and Technol.) OZAWA, Shimpei; SAKURAI, Kaori; YAMADA, Rika; OKADA, Ayumi; INAHARA, Masahiro
- 1PC-024** Synthetic development of ligands for AMPA receptor (Graduate School of Nanobioscience, Yokohama City Univ.) CHIBA, Manami; ISHIKAWA, Yuichi; OIKAWA, Masato
- 1PC-025** Withdrawn
- 1PC-026** Structure Establishment of Sarcodonins by X-ray Analysis of Phellodonin Dimethyl Ether Derivative (Tokyo Tech) MASUBUTI, Hironori; ENDOU, Yasuhisa; OYAMA, Kiyoshi; ARAYA, Hiroshi; FUJIMOTO, Yoshinori
- 1PC-027** First highly enantioselective reagent for resolution of  $\beta$ -amino acids (graduate School of Engineering, Nagoya Institute of Technology, Univ. of the Basque Country) FUKUSHI, Kazunobu; ACENA, Jose Luis; MORIWAKI, Hiroki; SOROCHINSKY, Alexander E; SHIBATA, Norio; SOLOSHONOK, vadim A
- 1PC-028** Structure activity relationships of ciliatamide analogues (2) (Aoyama Gakuin Univ.) UMEHARA, Masahiro; AKIYAMA, Shota;

- YAMAZAKI, Masatoshi; NAKAO, Yoichi; MATSUMOTO, Yoshitsugu; GOTO, Yasuyuki; SANJOBA, Chizu; OSADA, Yasutaka; KIMURA, Junji
- 1PC-029** Stereochemical analysis and cytotoxic evaluation of kulokekahillide-2 and its analogues (Aoyama Gakuin Univ.) UMEHARA, Masahiro; YAGYU, Sakyō; KUBO, Chinami; NEGISHI, Takayuki; NAKAO, Yoichi; KIMURA, Junji
- 1PC-030** Yellow Fluorescent Pigment in a Snail, *Bradybaena pellucida* (Kanagawa Univ. Dept. of Chemistry) SHIGETA, Sakie; SHINADA, Asami; NAKAJIMA, Akino; IJUIN, Hisako; WATANABE, Nobuko; ASAMI, Takahiro; MATSUMOTO, Masakatsu
- 1PC-031** Absolute stereochemistry analysis of the glycerolipid and development study towards a biopolymer by using VCD (Graduate school of Life Science, Hokkaido) MANAI, Daisuke; SHIBATA, Masataka; FUKUZAWA, Maho; TANIGUCHI, Tohru; MONDE, Kenji

## Chemical Biology

- 1PC-033** Anti-inflammation effect of water-soluble inclusion complexes of 1'-acetoxychavicol acetate with cyclodextrins (Graduate School of Engineering, Osaka City University) AZUMA, Hideki; MICHIDA, Yoshiyuki; AIZAWA, Yui; HIGASHITANI, Nao; KOJIMA, Akiko; NAGASAKI, Takeshi
- 1PC-034** Development of Dual-Photoaffinity Labeling System for Exploring Glycolipid Binding Proteins (Tokyo Univ. of Agri. and Technol.) TAWA, Masaki; SAKURAI, Kaori; YASUI, Tomoki; YASUE, Kosuke
- 1PC-035** Withdrawn
- 1PC-036** Rational design of fluorescence probes for measuring pH in acidic vesicles based on fluorescence lifetime imaging (Grad. Sch. of Med., The Univ. of Tokyo) KAMIYA, Mako; KODA, Kinuko; SAKURAI, Chie; ASANUMA, Daisuke; WADA, Ikuo; URANO, Yasuteru
- 1PC-037** Synthesis of indole including CF3 and evaluation of cell death inhibition. (Research Core for Interdisciplinary Sciences, Okayama University) YUUKI, Naoya; SAKUMA, Ryo; SATOH, Ayano; NISHINA, Yuta
- 1PC-038** Development of a novel molecular probe for 1H-13C-HMQC-MRI (Kyoto University) LEE, Masakazu; YAMADA, Hisatsugu; MAKINO, Akira; TOCHIO, Hidehito; KIMURA, Shunsaku; KONDO, Teruyuki; SHIRAKAWA, Masahiro
- 1PC-039** Development of a protein labeling method regulatable at a level of the gene expression (Kyushu Inst. of Tech.) SUEDA, Shinji; YAMAMOTO, Chihiro; ARISUDA, Kazuma
- 1PC-040** Development of Fluorogenic Probes for Detection of Histone Deacetylase Activity (Graduate School of Engineering, Osaka Univ.) HORI, Yuichiro; DHARA, Koushik; BABA, Reisuke; KIKUCHI, Kazuya
- 1PC-041** Control of Unfolded Protein Response by 4-Phenylbutyric Acid Analogues (Univ. of Yamanashi) ZHANG, Hui; NAKAJIMA, Shotaro; KATO, Hironori; GU, Liubao; YOSHITOMI, Tatsuya; SHINMORI, Hideyuki; KOKUBO, Susumu; KITAMURA, Masanori
- 1PC-042** Development of the methodology to analyze the cell surface and the cell response by AFM (Kobe Univ.) TAKENAKA, Musashi; OGINO, Chiaki; MIYACHI, Yusuke; KONDO, Akihiko
- 1PC-043** Development of novel fluorescence probes based on folate derivatives (Nagahama Inst. of Bio-Sci. & Tech.) KAWAI, Yasushi; MATSUMOTO, Minako
- 1PC-044** Development of luciferin analogues for application as BRET donors (The Univ. of Tokyo) TAKAKURA, Hideo; NAGANO, Tetsuo; URANO, Yasuteru

## Biofunctional Chemistry ; Biotechnology

- 1PC-045** Synthesis of a Fluorous Polymer Gel that Takes Up Fluorous Compounds and Shows Response in Volume (FIRST, Konan Univ.) NAKAHORI, Yuma; NAGAHAMA, Koji; MATSUI, Jun
- 1PC-046** Construction of Pyrazine Recognition Polymers by Molecular Imprinting Using Zinc Porphyrin (FIRST, Konan University) MINETOKI, Yuki; IBUKI, Yusuke; MURASHIMA, Takashi; MATSUI, Jun
- 1PC-047** Synthesis of Polymer Gel That Recognizes ATP by Molecular Imprinting on the Peptide Synthesis Resin (FIRST, Konan Univ.) TAKATA, Ayana; USUI, Kenji; MATSUI, Jun
- 1PC-048** Preparation and characterization of photo-responsive electrode modified with DNA/porphyrin complexes (Univ. of Hyogo) NARUO, Megumi; TAKADA, Tadao; NAKAMURA, Mitsunobu; YAMANA, Kazushige
- 1PC-049** Construction of Electron Relay System Using Nucleic Acids: Synthesis and Evaluation of DNA Conjugates Possessing Porphyrin and Ferrocene Units (Univ. of Hyogo) UMEMOTO, Ryo; TAKADA, Tadao; NAKAMURA, Mitsunobu; YAMANA, Kazushige
- 1PC-050** Aggregation of diketopyrrolopyrrole derivative induced by DNA (Univ. of Hyogo) TSUTO, Koji; NAKAMURA, Mitsunobu; TAKADA, Tadao; YAMANA, Kazushige
- 1PC-051** molecular design for functional pseudopolypyrrolaxane using water-soluble-porphyrins (Saitama University, Graduate School of Science and Engineering) KAGAWA, Yuuya; HAYASHITA, Takashi; ISHIMARU, Yoshihiro
- 1PC-052** Development of modified cyclodextrin for functional pseudopolypyrrolaxane (Saitama University, Graduate School of Science and Engineering)

- FUJISAKI, Yuu; ISHIMARU, Yoshihiro
- 1PC-053** Water-solubilization of shikonin by using  $\beta$ -1,3-glucan and its effect on cell-selective cytotoxicity (Grad. Sch. of Eng., Osaka. City. Univ) YODA, Ryota; LI, Jiawei; SUZUKI, Toshio; AZUMA, Hideki; TANIGUCHI, Taizo; NAGASAKI, Takeshi
- 1PC-054** Solubilization of coenzyme Q10 by  $\beta$ -1,3-glucan and its effect on cell proliferation (Grad. Sch. of Eng., Osaka. City. Univ) YAMAMOTO, Daisuke; LI, Jiawei; SUZUKI, Toshio; AZUMA, Hideki; NAGASAKI, Takeshi
- 1PC-055** Investigation of cosolvent for Baeyer-Villiger oxidation reaction by *Fusarium sp.* (Tokyo Institute of Technol) MASUDA, Ayaka; KAWAGUCHI, Nozomi; TANABE, Tomofumi; MATSUDA, Tomoko
- 1PC-056** Development of novel Baeyer-villiger oxidation of cyclopentanone derivatives by *Fusarium sp.* (Sch. Biosci. Biotech., Tokyo Tech) TANABE, Tomofumi; KAWAGUCHI, Nozomi; MASUDA, Ayaka; FUKUI, Syusuke; MATSUDA, Tomoko
- 1PC-057** Oxidation of chlorophylls using high molecular weight disulfides (Utsunomiya Univ.) OBA, Toru; WATANABE, Kana; YASUDA, Satoru; FUKUSUMI, Takanori; ITO, Satoshi
- 1PC-058** Effects of thiol and oxygen on the conversion of chlorophyll-*a* into chlorophyll-*d* (Utsunomiya University, Ritsumeikan University) FUKUSUMI, Takanori; TATENO, Yubi; TAKEI, Natsuki; WAKAMATSU, Tomoko; ITO, Satoshi; IKEDA, Tsukasa; MIZOGUCHI, Tadashi; TAMIaki, Hitoshi; OBA, Toru
- 1PC-059** Synthesis and properties of amine adducts of chlorophyll derivatives (Grad. Sch. Eng., Utsunomiya Univ.) OBA, Toru; YANG, Lin; ITO, Satoshi
- 1PC-060** Synthesis of Aminobenzopyranoxanthene (ABPX) dye analogue selectively forms complex with Cu(II) as a novel colorimetric probe (Okayama Univ., RIKEN CMIS) SHIRASAKI, Yoshinao; KAMINO, Shinichiro; WATANABE, Keiko; TAKEUCHI, Yasuo; ENOMOTO, Shuichi
- 1PC-061** Peroxidase-like catalytic activity of the complexes linked metal-thiacalix[4]arene with metal-porphyrine derivatives via ionic interaction (Okayama Univ of Science) TOYOHARA, Akihiro; INOGUCHI, Masahiko; ODO, Junichi
- 1PC-062** Construction of Self-Assembled Porphyrin Heptamer Bearing ChargeSeparation and Light Harvesting (Kyoto Institute of Technology;) HIRABAYASHI, Takuma; SASAKI, Ken; KURODA, Yasuyuki
- 1PC-063** Protein imprinted polymers with specific fluorescent recognition cavities prepared by post-imprinting treatment (Graduate School of Engineering, Kobe University) SUGA, Yusuke; SUNAYAMA, Hirobumi; KITAYAMA, Yukiya; OOYA, Tooru; TAKEUCHI, Toshifumi
- 1PC-064** Highly sensitive detection for small molecules using molecularly imprinted nanoparticles co-existing with gold nanoparticles (Graduate School of Engineering, Kobe Univ.) UCHIDA, Akane; KITAYAMA, Yukiya; OOYA, Tooru; TAKEUCHI, Toshifumi
- 1PC-065** Construction of antibiotics imprinted cavity with plural fluorescent dyes for signal transduction of binding events. (Graduate School of Engineering, Kobe University) OHTA, Takeo; SUNAYAMA, Hirobumi; KITAYAMA, Yukiya; OOYA, Tooru; TAKEUCHI, Toshifumi
- 1PC-066** Photochemical Property of meso-Phenanthrylporphyrin (Shizuoka Univ.) ITO, Yusuke; HIRAKAWA, Kazutaka
- 1PC-067** Development of Protein Purification System Taking Advantage of Click Chemistry and Beads with Photo-cleavable Linker (Toho Univ.) MATSUSHIMA, Tomoya; BETSUI, Shingo; HANAGAMI, Ayaka; KISHIMOTO, Toshihiko; KAGECHIKA, Hiroyuki; WATANABE, Soichiro
- 1PC-068** Synthesis and characterization of transmembrane-protein mimics bearing chiral units (IMRAM, Tohoku Univ.) ENDO, Takahiro; MURAOKA, Takahiro; KINBARA, Kazushi
- 1PC-069** Synthesis and Characterization of Discrete PEGs with Geometrical Diversity (IMRAM, Tohoku Univ.) OBARA, Haruki; MURAOKA, Takahiro; UI, Mihoko; KINBARA, Kazushi
- 1PC-070** Analysis of heat-induced oxidation and isomerization of double bonds in unsaturated fatty acids (NARO National Food Research Institute) TSUZUKI, Wakako
- 1PC-071** Comprehensive discussion for metal ion affinity of quinoline- and isoquinoline-based fluorescent zinc sensors (Graduate School of Humanities and Sciences and KYOUSEI Science Center, Nara Women's Univ.) TAKEUCHI, Saaya; MIKATA, Yuji
- 1PC-072** Synthesis and Binding Ability toward Guests Having Environmental Response of Cyclophane Having Choline Residues (Fukuoka Univ., Faculty of Science) SATO, Daisuke; HAYASHIDA, Osamu
- 1PC-073** Synthesis and Fluorescent Properties of Pyrene-appended Cyclophane Dimers Based on Cysteine-disulfide Linkage (Fukuoka University, Faculty of Science) KOJIMA, Keiko; ICHIMURA, Kazuaki; KAKU, Yu; HAYASHIDA, Osamu
- 1PC-074** Synthesis and Characterization of Cyclophane Pentamer Bearing Acylhydrazone Moieties (Fukuoka University, Faculty of Science) OHNO, Tatsuya; HAYASHIDA, Osamu
- 1PC-075** Synthesis of  $\beta$ -Cyclodextrin Derivatives Bearing Ethylene Glycol Chains And Their Solubilizing Ability for Poorly Water-soluble Drugs (The Noguchi Institute) YAMANOI, Takashi; NAKAGAWA, Junki; ODA, Yoshiaki
- 1PC-076** Synthesis of chlorophyll derivative possessing an epoxy moiety as the C3-substituent and its opening reaction (Ritsumeikan Univ.) TAMIaki, Hitoshi; ISODA, Yasuaki; MACHIDA, Shinnosuke
- 1PC-077** Synthesis of Protochlorophyll Derivatives and Their Optical and Electrochemical Properties (Ryukoku University) MIYATAKE, Tomohiro; NAGAIKE, Shoichi; HIEDA, Masato; KASUNO, Megumi
- 1PC-078<sup>#</sup>** Structure and stability of 19F-labeled telomere RNA G-quadruplex (Faculty of Medicine, University of Miyazaki) BAO, Hongliang; XU, Yan
- 1PC-079** Synthesis and enzymatic recognition of GFP-inspired nucleoside isosteres (Kyoto Institute of Technology) KOBORI, Akio; KASAI, Takuho; SAKATA, Yuuya; YAMAMOTO, Isao; YAMAYOSHI, Asako; MURAKAMI, Akira
- 1PC-080** Inhibition of RISC function by antisense oligonucleotides containing a linker moiety (III)Structural insights for design of novel inhibitors against RISC function (Kyoto Inst. of Tech.) YAMAYOSHI, Asako; NAKAMURA, Hiromi; MUKAI, Takatoshi; KOBORI, Akio; MURAKAMI, Akira
- 1PC-081** Synthesis and cross-linking properties of nucleoside isosteres with a caged chloroaldehyde group (Kyoto Inst. of Tech.) KOBORI, Akio; SUGIHARA, Yuta; NAGAE, Yuko; YAMAYOSHI, Asako; MURAKAMI, Akira
- 1PC-082** Detection of a point-mutation in RNA by FRET using pyrene-modified nucleic acid probes. (Kyoto Inst. of Tech.) KOBORI, Akio; KAWAI, Masayuki; UEDA, Takako; FURUYAMA, Kota; YAMAYOSHI, Asako; MURAKAMI, Akira
- 1PC-083** Synthesis and evaluate of fluorescent properties of 8-phenyl-3,*N*<sup>4</sup>-etheno-2'-deoxycytidine (Kyoto Inst. of Tech.) KOBORI, Akio; NAKAKO, Haruka; YAMAYOSHI, Asako; MURAKAMI, Akira
- 1PC-084** Development of photo-responsive cross-linking reactions between target ORNs and oligonucleotides having a psoralen nucleoside (Kyoto Inst. of Tech.) KOBORI, Akio; TAKAGI, Noriyuki; YAMAYOSHI, Asako; MURAKAMI, Akira
- 1PC-085** Intracellular Delivery of siRNA and Gene Silencing by Signal Peptide Conjugates (Univ. of Kinki) FUJIAKI, Shutaro; OBATA, Junichi; FUJII, Masayuki
- 1PC-086** Photo-triggered dimerization of aminolevulinic acid-modified DNA on the template (Kumamoto Univ.) TAKASAKI, Takahiro; YAMAGUCHI, Tomomasa; KITAMURA, Yusuke; IHARA, Toshihiro
- 1PC-087** Metallo-regulation of functional DNA carrying terpyridine units (Kumamoto Univ.) OURA, Hiroyuki; KITMAMURA, Yusuke; IHARA, Toshihiro
- 1PC-088** Binding of Ag(I) ions to cytosine-cytosine pairs in DNA duplexes. (Kanagawa University) SUGIMOTO, Masato; OKAMOTO, Itaru; ONO, Akira
- 1PC-089** Mechanism of G-quadruplex formation in telomere duplex (Shizuoka Univ.) TANAKA, Asami; SHITARA, Takumi; OYOSHI, Takanori
- 1PC-090** Nuclease resistance and RNAi activity of a modified double-stranded RNA containing amide-linked RNA and 2'-O-methyluridine (Teikyo Univ. of Science) IWASE, Reiko; INAGAKI, Hiromasa; TAKEDA, Ryouhei; UENO, Junpei
- 1PC-091** Label-free signaling aptamer for biomolecule detection based on regulation of Dapoxyl fluorescence. (Tokyo Univ. of Technol.) KIMURA, Ryota; KATO, Teru
- 1PC-092** Synthesis and properties of oligonucleotides incorporating 2'-deoxyadenosine having conformationally fixed glycosidic bond (Tokyo Institute of Technology, Life Science) KOJIMA, Shun; IJIMA, Yoshihiro; KUROHAGI, Sayako; KANAMORI, Takashi; OKUBO, Akihiro; SEKINE, Mitsuo; SEIO, Kohji
- 1PC-093** Synthesis of 7-deazapurine derivatives with benzofuran ring and their fluorescent properties (Tokyo Institute of Technology, Life Science) SAITO, Masanori; TOKUGAWA, Munefumi; KANAMORI, Takashi; OHKUBO, Akihiro; SEKINE, Mitsuo; SEIO, Kohji
- 1PC-094** Synthesis and metal complexation of artificial DNA strands possessing 5-hydroxyuracils as ligands (Grad. School of Science, The Univ. of Tokyo) NISHIYAMA, Kotaro; TAKEZAWA, Yusuke; SHIONOYA, Mitsuhiko
- 1PC-095** Studies on dynamics of G-Quadruplex formation changes from Na<sup>+</sup> form to K<sup>+</sup> form by time-resolved CD measurement. (IMRAM, Tohoku Univ.) HAMADA, Yoshiki; MURAKAMI, Makoto; ARAKI, Yasuyuki; SAKAMOTO, Seiji; WADA, Takehiko
- 1PC-096** Interaction between oligonucleotide and photoresponsive Malachite Green derivative (Nara National College of Technology) ASANO, Ryo; UDA, Ryoko
- 1PC-097** Design and synthesis of fluorescent pH sensor nucleosides (Nihon Univ.) YOKOYAMA, Shota; MIYAMOTO, Shigenori; SAITO, Isao; SAITO, Yoshio
- 1PC-098** Synthesis and photophysical properties of novel fluorescent 3-deaza-2'-deoxyadenosine derivatives (Nihon Univ.) YANABA, Takumi; NAGAE, Yoshiyuki; HASHIMOTO, Yumiko; SAITO, Isao; SAITO, Yoshio
- 1PC-099** Synthesis and Biological Activity of 2'-Modified Cyclic Bis(3'-5') diadenylic Acids (Nagoya Univ.) TEZUKA, Takafumi; SUZUKI, Noritaka; ISHIDA, Keigo; OYAMA, Kin-ichi; AOKI, Setsuyuki; TSUKAMOTO, Masaki
- 1PC-100** Characterization of a novel metagenome-derived thermostable laccase and development of the laccase-based biocathode (Aisin Cosmos R&D Co. Ltd) SHIGEMORI, Yasushi; OHARA, Osamu; UEMURA,

- Keiko; KAMITAKA, Yuji; IMAMURA, Chie
- 1PC-101<sup>#</sup>** Resolving Double Disulfide Bond Patterns in SNAP25B Using Liquid Chromatography-Ion Trap Mass Spectrometry (Brigham Young University, Kyoto University) OGAWA, Nozomi; WOODBURY, Dixon; TAYLOR, Ryan; SMITH, J.P.
- 1PC-102** Function of Leu77 amino acid residue fluctuating on the surface of heme oxygenase (Kurume Univ. Sch. of Med.; Suntory Found. for Life Sci.) HARADA, Jiro; SATO, Hideaki; HARADA, Erisa; HIGASHIMOTO, Yuichiro; SUGISHIMA, Masakazu; SUGASE, Kenji; NOGUCHI, Masato
- 1PC-103** Inclusion effects of cyclodextrin on stability of protein (Kinki Univ.) KAMIYAMA, Tadashi; MARUTANI, Tomokadzu; MIKI, Toshiki; YONEDA, Shigetaka; KIMURA, Takayoshi
- 1PC-104** Synthesis and the accumulation in endosomes of apoptosis-inductive peptides containing cell-penetrating peptides and photo-responsible dyes (Kinki Univ.; Okayama Univ.) MAEBA, Iori; KITAMATSU, Mizuki; OHTSUKI, Takashi
- 1PC-105** Synthesis of cyclic hexapeptides on solid supports that aimed at peptide screening (Kinki Univ.; Okayama Univ.) SUMIDA, Yuhki; KITAMATSU, Mizuki; NOUTOSHI, Yoshiteru
- 1PC-106** Intracellular delivery of a green fluorescent protein by using heterodimeric leucine zippers (Kinki Univ.; Okayama Univ.) DEGUCHI, Takara; KITAMATSU, Mizuki; NAKASHIMA, Mami; OHTSUKI, Takashi; MICHIE, Hiroyuki
- 1PC-107** Development of anti-allergy peptides modified with galloyl groups at their side chains (Faculty of Engineering, Kyushu Sangyo University) FUJIMOTO, Kazuhisa; ISHIBASHI, Megumi; UTSUNOMIYA, Aya; TAKASUGI, Mikako
- 1PC-108** Structure and Stability of Light-Driven Chloride Pump Halorhodopsin with Nonionic Detergents (Gunma Univ. Grad. Sch. Eng.) OKAYAMA, Sotaro; KIKUKAWA, Takashi; HAYASHI, Fumio; SONOYAMA, Masashi
- 1PC-109** Effects of NDSBs, protein stabilizers, on the cooperativity of protein denaturation (Grad. Sch. Eng., Gunma Univ.) DEMURA, Tetsuro; YOSHIZAWA, Mitsuhiro; IGARASHI, Kazuki; XIANG, Long; ISHII, Takeshi; WAKAMATSU, Kaori
- 1PC-110** Design and synthesis of hybrid enzymes based on papain modified with artificial metalocatalysts (Faculty of Pharmacy, Keio University) HANAYA, Kengo; SUGAWARA, Takahiro; SHOJI, Mitsuru; SUGAI, Takeshi
- 1PC-111** Study of the fibrillization promoting mechanism of Amyloid- $\beta$  peptide (FIRST, Konan Univ.) SONO, Daiki; FUJII, Satoshi
- 1PC-112** Atomic force microscopy observation of artificial photosynthetic membranes varying the ratio of pigment-protein complexes to lipid (Osaka City Univ.) HANJO, Kohei; SUGAI, Yuko; URAGAMI, Chiasa; NANGO, Mamoru; HASHIMOTO, Hideki
- 1PC-113** Action of antimicrobial peptide on the bacterial outer membrane lipid A and secondary structure transformation (National Institute for Advanced Industrial Science and Technology; Research Center Borstel; Hamburg University of Applied Sciences) FUKUOKA, Satoshi; HEINBOCKEL, Lena; KACONIS, Yani; ANDRAE, Joerg; GUTSMANN, Thomas; BRANDENBURG, Klaus
- 1PC-114** Analysis of the physicochemical property of Y-box binding protein 1 (YB-1) and its binding mechanism to DNA (Univ. of Tokyo) TANABE, Yumiko; NAGATOISHI, Satoru; NISHIKATA, Takahito; SUGIMOTO, Naoki; TSUMOTO, Kouhei
- 1PC-115** Design of Photoresponsive Phosphodiesterase toward Reversible regulation of cAMP (IMRAM, Tohoku Univ.) ARAI, Yasuhiro; UI, Mihoko; TAKAHASHI, Hiroto; KINBARA, Kazushi
- 1PC-116** Design of Detection System for Histone Modification Patterns using Split-Fluorescent Proteins (IMRAM, Tohoku Univ.) SAKAMOTO, Seiji; ARAKI, Yasuyuki; WADA, Takehiko
- 1PC-117** Design of chemical modification molecules binding to Lys175 in the vicinity of the active site of chymotrypsin (Grad. Sch. of Sci. and Eng., Univ. of Toyama) SAWAI, Yusuke; UMEZAKI, Masahito; NAKAI, Takahiko; OYAMA, Hiroshi; ONO, Shin
- 1PC-118** Synthesis and membrane-permeable evaluation of Peptidylalendronate (Univ. of Japan Chemical; Japan Chemical Co.Ltd) KUBO, Yurika; MAEDA, Ayaka; YUKAWA, Miho; UEDA, Toshihisa; IKEDA, Hirohito; AKI, Htsumi; ANDO, Setsuko
- 1PC-119** Addition of Ammonium-based Ionic Liquid-induced Formation of Non-native  $\alpha$ -Helical Structure of  $\beta$ -ta-lactoglobulin (Nat. Def. Acad.) TAKEKIYO, Takahiro; KOYAMA, Yoshihiro; MORI, Takahiro; YAMAZAKI, Kumiko; ABE, Hiroshi; YOSHIMURA, Yukihiko
- 1PC-120** Application of the tandemly-connected PG-surfactants to a solubilization surfactant of membrane proteins (Nagoya Inst. of Tech.) SUZUKI, Tomoyuki; KOEDA, Shuhei; MIZUNO, Toshihisa; NOJI, Tomoyasu; DEWA, Takehisa; TANAKA, Tosiki; NANGO, Mamoru
- 1PC-121** Preparation of genetic engineered photosynthetic antenna membrane proteins to assembly onto substrates with defined orientation (Nagoya Inst. of Tech.) KONDO, Masaharu; MIZUNO, Toshihisa; NAGASHIMA, Sakiko; NAGASHIMA, Kenji; DEWA, Takahisa; NANGO, Mamoru
- 1PC-122** Preparation of the PEDOT/protein nano-particle (Nagoya Inst. of Tech.) ICHIKI, Kentaro; MIZUNO, Toshihisa; KONDO, Masaharu; DEWA, Takehisa; TANAKA, Tosiki
- 1PC-123** Immobilization of the oceanic photosynthetic antenna complexes onto substrates and its photocurrent characteristics (Nagoya Inst. Of Tech.; Osaka City Univ.) KONDO, Masaharu; AMANO, Mizuki; NOJI, Tomoyasu; FUJII, Ritsuko; HASHIMOTO, Hideki; DEWA, Takehisa; NANGO, Mamoru
- 1PC-124** Synthesis of Novel Lectin-binding Glycolipids Containing a Ferrocenyl Group (Biomedical Research Institute, AIST) MURAKAMI, Teiichi; SATO, Yukari; YOSHIOKA, Kyoko
- 1PC-125** Synthesis of Dendrimers with Multivalent  $\alpha$ -N-Acetyl Glucosamine Ligands Having The Antibacterial Activity for Pylori (The Noguchi Institute) SUGATA, Yuji; ODA, Yoshiki; EGAWA, Yuya; SEKI, Toshinobu; KATSURAYA, Kaname; YAMANOI, Takashi
- 1PC-126** Effect of Lipid Phase Transition on Structure and Photointermediate of Reconstituted Bacteriorhodopsin in Synthetic Lipid Bilayer (Gunma Univ. Grad. Sch. Eng.) SHIMOSUGI, Masaya; KIKUKAWA, Takashi; SONOYAMA, Masashi
- 1PC-127** Aggregation Behavior of Peptide Lipid Having an Ionic Liquid Structural Unit (Grad. Sch. Mat. Sci. Nara Inst. Sci. and Tech.) MICHISHITA, Toshihiro; KIKUCHI, Jun-ichi
- 1PC-128** Reconstitution and Characterization of Photosynthetic Light-Harvesting Complex into Bicelles (Nagoya Institute of Technology) YAMADA, Tatsuki; SUMINO, Ayumi; NANGO, Mamoru; DEWA, Takehisa
- 1PC-129** Study of detection method for expressed genes in single-cells by hot cell-direct RT-PCR (Soka Univ.) SHOZEN, Naoki; FURUTANI, Shunsuke; AOYAMA, Yuri; KUBO, Izumi
- 1PC-130** Kinetic of the novel energy expressed by biomimetic and synthetic peptide-catalysts with functional enzyme domains Derivatives(2) a Molecular Dynamics Examination (You Co.:Riyo Co.:National Univ. of Singapore) WADA, Akira; TSUCHIYA, Hachidai; TSUCHIYA, Yoshihiro; KATAOKA, Miyoko; ONIZAWA, Taeko; PRBHAT, Kumar
- 1PC-131** A Trinder's reagent spectrophotometric detection of serine with enzymatic reactions (Hiroshima City Univ.) KUGIMIYA, Akimitsu; FUKADA, Rie; BABE, Fumie
- 1PC-132** Screening of transcriptional regulators for intracellular glycosylated products. (TUT) MIKAMI, Akane; OHYA, Shuhichi; YAMAZAKI, Tomohiko; KARUBE, Isao
- 1PC-133** Simple and sensitive detection of staphylococcal enterotoxin A (Tokyo University of technology graduate school) ARAI, Shota; SAIKI, Hiroshi; SUZUKI, Yoshinori
- 1PC-134** Spectroscopic analysis of interactions between Thalidomide and Human Serum Albumin (Waseda Univ.) TAKADA, Nami; HOSHINO, Tyuji; SHIBATA, Norio; OGINO, Yoshiyuki; ASAH, Toru
- 1PC-135** Development of asymmetric synthesis using acetophenone reductase (APRD) (Sch. Biosci. Biotech., Tokyo Tech) YAMAMOTO, Takuro; NAKATA, Yasuo; SUGIYAMA, Yosuke; CAO, Chen; MATSUDA, Tomoko
- 1PC-136** Synthesis of chiral epoxides by the novel acetophenone reductase from *Geotrichum candidum* NBRC 4597 (Sch. Biosci. Biotech., Tokyo Tech) SUGIYAMA, Yosuke; YAMAMOTO, Takuro; MATUDA, Tomoko
- 1PC-137** Control of ketone reduction using mutants of photosynthetic bacteria *Synechocystis* sp.PCC6803 (Fac. Sci., Tokyo Univ. of Sci.) ITO, Tadayoshi; UMENO, Nobuaki; OHTA, Hisataka; NAKAMURA, Kaoru; TAKEMURA, Tetsuo
- 1PC-138** Syntheses of Optically Active Organic Compounds with Fragrance (Toyama Prefectural Univ.) KAWASAKI, Masashi
- 1PC-139** Polymeric Microfluidic Devices for Size-based Cell Separation (Toyama Industrial Technology Center) TAKATA, Koji; OHNAGA, Takashi; OBATA, Tsutomu
- 1PC-140** Development of an efficient capture resin for sphingolipids by using chemoselective reaction and stereochemical analysis method (Graduate School of Life Science, Hokkaido University) OKAMOTO, Saori; NAKAHASHI, Atsufumi; C.S., Ananda Kumar; TANIGUCHI, Tohru; MONDE, Kenji

Saturday, March 23, AM

(10 : 00 ~ 11 : 30)

## Inorganic Chemistry

- 2PA-001** Synthesis and Photomagnetism of Organic-Inorganic Hybrid Compound with Intercalated Ionic Spiropyran (Univ. Tokyo) TANAKA, Naru; OKAZAWA, Atsushi; KOJIMA, Norimichi
- 2PA-002** Valence Control and Physical Properties of Ternary Sulfides A-M-S (A = Na, K; M = Cu, Mn) by Electrochemical Intercalation/Deintercalation of Alkali Ions (Univ. of Tokyo; AIST) KOBAYASHI, Hiroaki; OKUBO, Masashi; OKAZAWA, Atsushi; KOJIMA, Norimichi
- 2PA-003** Synthesis of TiO<sub>2</sub>/WO<sub>3</sub> nanotubes for enhanced photoelectrochemical reactivity (Sch. Mat. Sci., JAIST) IKEDA, Shoto; VEDARAJAN, Raman; MATSUMI, Noriyoshi
- 2PA-004** On the green emission in ZnO-GeO compounds by 1064-nm excitation (Ritsumeikan University) YAMAUCHI, Kohei; SANADA, Tomoe; WADA, Yukinori; KOZIMA, Kazuo
- 2PA-005** Ion-exchange behavior of the chloride complexes of Nb, Ta, and Pa - Model experiments for Db - (Grad. Sch. of Sci., Osaka Univ.) YOKOKITA, Takuya; KOMORI, Yukiko; KINO, Aiko; NAKAMURA, Kouhei; TOYOMURA, Keigo; KASAMATSU, Yoshitaka; TAKAHASHI, Naruto;

- YOSHIMURA, Takashi; SHINOHARA, Atushi
- 2PA-006** Synthesis of carboxylate-bridged trinuclear complex formed by monolacunar Keggin polyoxometalate having carboxylate-terminated organosilyl groups. (Kanagawa Univ. Faculty of Science) ABE, Ryoji; MATSUNAGA, Satoshi; NOMIYA, Kenji
- 2PA-007** Syntheses and Molecular Structures of Dinuclear Zr(IV)/Hf(IV) Edge- and Face-Sharing Linkage Complexes Sandwiched between Two Monolacunar  $\beta$ -Keggin-Type Silicotungstates (Kanagawa Univ. Fac. of Sci.) OSADA, Hironori; MATSUNAGA, Satoshi; NOMIYA, Kenji
- 2PA-008** Alkene oxidation by hydrogen peroxide in the presence of [(VO)<sub>3</sub>(SbW<sub>9</sub>O<sub>33</sub>)<sub>2</sub>]<sup>12-</sup>. (Chubu University) YAMADA, Tomoaki; ISHIKAWA, Eri
- 2PA-009** Photoreduction process of nucleotide-coordinated polyoxomolybdates, [(GMP)<sub>2</sub>Mo<sub>5</sub>O<sub>15</sub>]<sup>4-</sup>. (Chubu University) KAWASHIMA, Norika; ISHIKAWA, Eri
- 2PA-010** Synthesis of a chimera cluster of a niobium substituted Keggin-type polyoxometalate and a silver ethynide cluster. (Grad. Sch. Sci., Eng., Tokyo Tech) TAMARI, Sho; OZEKI, Tomoji
- 2PA-011** Emission Properties of Copper-halide Cluster Complexes Protected by Interligand Interaction (Hiroshima University) KUME, Shoko
- 2PA-012** Preparation of porous carbon using iron oxide created by bacteria (Okayama Univ.) KAWAMURA, Hitomi; GOTOH, Kazuma; HASHIMOTO, Hideki; TAKADA, Jun; ISHIDA, Hiroyuki
- 2PA-013** Dispersion of monoatoms on oxidized surface of graphene (Okayama Univ.) IZUKA, Misato; GOTOH, Kazuma; KITAURA, Ryo; SASAKI, Yuki; MIYATA, Yasumitsu; HASHIMOTO, Hideki; ISHIDA, Hiroyuki
- 2PA-014** The reaction behavior of alkylamine intercalated into  $\alpha$  zirconium phosphate with benzaldehyde (Osaka Institute of Technology, ISIR Osaka Univ.) SHIMOMURA, Osamu; DATE, Ryou; SATO, Mami; WADA, Naoaki; OTAKA, Atsushi; YAMAGUCHI, Shunrou; ICHIHARA, Junko; NOMURA, Ryoki
- 2PA-015** Synthesis of One-Dimensional Metalladithiolene Thin Films and their structures and physical properties (Univ. of Tokyo) MATSUOKA, Ryota; SAKAMOTO, Ryota; NISHIHARA, Hiroshi
- 2PA-016** Preparation of Cs<sub>2</sub>Mo<sub>7</sub>O<sub>22</sub> and the Ion Exchange Products (Tokuyama College of Technology) OHASHI, Masao
- 2PA-017** Synthesis of lepidocrocite ( $\gamma$ -FeOOH) nanosheet via delamination of Fe(II)/Fe(III) layered double hydroxide (Univ. of Tokushima; Univ. of Tokushima) MASUDA, Masayuki; KURASHINA, Masashi; KANEZAKI, Eiji
- 2PA-018** Humidity response of phyllosilicate/alkylammonium/ethanolamine hybrids (Natl. Inst. Mater. Sci.) FUJII, Kazuko; HASHIZUME, Hideo; SHIMOMURA, Shuichi; ANDO, Toshihiro
- 2PA-019** Evaluation and preparation of iron-substituted hydroxyapatite/chitosan thin film by electrophoretic deposition method (College of Science and Technology, Nihon Univ.) NARITA, Kennosuke; TOYAMA, Takeshi; NISIMIYA, Nobuyuki
- 2PA-020** Gelation of LDHs (layered double hydroxide) by using aqueous solutions of zwitterions (NIMS) IYI, Nobuo; ISHIHARA, Shinsuke; YAMADA, Hirohisa
- 2PA-021** Synthesis of homologous series of layered perovskite oxide K[A<sub>n-1</sub>Nb<sub>3</sub>Ti<sub>n-3</sub>O<sub>3n+1</sub>](A = Ca, Sr, n = 4, 5, 6) (National Institute for Materials Science) AOYAMA, Yasuhiro; EBINA, Yasuo; OZAWA, Tadashi C.; FUJIMOTO, Kenjiro; ITO, Shigeru; SASAKI, Takayoshi
- 2PA-022** Dissolution of zirconium metal in a mixture of sulfuric acid and nitric acid. (The Wakasa Wan Energy Research Center) NISHIO, Shigeru
- 2PA-029** The Novel Synthesis of Sulfide Cobalt Fullerene Complex with the Triphenylmethanethiol (Univ. of Tokyo) OGUMI, Keisuke; MATSUO, Yutaka; MARUYAMA, Masashi
- 2PA-030** Synthesis and Structures of copper(II) complex of using tetraketone-type ligands (Kyushu Univ.) EGUCHI, Daisuke; TOGO, Tatsuo; YONEDA, Hiroshi; MISHIMA, Akio; OHBA, Hisayoshi; KOSHIYAMA, Tomomi; OHBA, Masaaki
- 2PA-031** Synthesis and Luminescence of Copper(I) Complex with Chelating Carbene Ligands. (Seikei University) SANO, Taichi; TSUBOMURA, Taro; TAKAO, Koichiro
- 2PA-032** Attempt at Sulfonation of Tetraryl-tetrabenzoporphyrin Metal Complex (Fac. Sci., Toho Univ.) AIDA, Tokio; MATSUKAWA, Shiro; TAKAHASHI, Masashi
- 2PA-033** Synthesis and magnetic property of Fe polynuclear complexes consisting of S-shaped hexadentate ligand (Kinki University) MAEDA, Yukihiko; YAMAGUCHI, Ryotaro; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 2PA-034** Synthesis and magnetism of lanthanoid complex with a ligand having Fe(II) SCO behavior (Kinki Univ.) MATSUI, Tatsuhiko; OOKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 2PA-035** Construction of supramolecular structure from bisferrocenyl complex via spiroborate linkage and its redox behavior. (Nara Inst. of Sci. and Technol.) TAHARA, Keishiro; AKITA, Tetsuhiro; KIKUCHI, Jun-ichi
- 2PA-036** Synthesis and Properties of a Heteroleptic Triple-decker Sandwich Dinuclear Lu(III) Complex Containing Octabutoxy- and Octamethyl-substituted Phthalocyanines (Part 2) (Kyushu Univ.) SHIMAZAKI, Akinari; SUENAGA, Masahiko; TAKAHASHI, Kazuhiro
- 2PA-037** Synthesis of Niobium Hydride Complexes and Dinitrogen Activation: Substituent Effect of Tripodal Aryloxide Ligands (Dept. Chem., Tokyo Tech.) SUZUKI, Shouji; ISHIDA, Yutaka; HATANAKA, Tsubasa; KAWAGUCHI, Hiroyuki
- 2PA-038** Synthesis, Structure and Properties of Non-planar Dodecacosubstituted Porphyrins Bearing Five Membered Heterocyclic Substituents *at meso*-Positions. (Fac. Sci., Toho Univ.) FUKUI, Arata; MATSUKAWA, Shiro; TAKAHASHI, Masashi
- 2PA-039** A New Development of Nonmetallic Porphycene Complexes: the First Synthesis of Phosphorus-Containing Porphycene (Kyushu Univ.) MUKOTAKA, Hiroto; ABE, Masaaki; OKAWARA, Toru; ONO, Toshikazu; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio
- 2PA-040** Synthesis of the Allyl PCP Pincer Pd Complex (Fukuoka Univ. of Education; Kyoto Univ.) TSURUDA, Sayaka; NAGASAWA, Isoroku; KITAGAWA, Hiroshi
- 2PA-041** Synthesis, Structures and Luminescence properties of Cyclometalated Platinum(II) complexes with  $\alpha$ -Amino Acids (Dept. Chem., Saitama Univ.; CACS, Saitama Univ.) YAMAGUCHI, Shohei; NAGASAWA, Akira; FUJIHARA, Takashi
- 2PA-042** Development of New Coupling Methods of Photofunctional Metal Complexes (Tokyo Tech.) YAMAZAKI, Yasuomi; MORIMOTO, Tatsuki; KOIKE, Kazuhide; ISHITANI, Osamu
- 2PA-043** Syntheses of cyclic multinuclear ruthenium complexes by self-assembly. (Tokyo Metropolitan University, Faculty of Urban Environmental science, Department of Applied Chemistry) MORIYAMA, Ryouta; HIRAYAMA, Akiko; SATO, Kiyoshi; YAMAGUCHI, Motowo
- 2PA-044** Syntheses of Ruthenium Complexes Bearing Methyl(2-pyridyl)methylamino Acetate As a Supporting Ligand (Fac. Sci., Sophia Univ.) TERADA, Iori; NAGAO, Hiroataka
- 2PA-045** Preparations and Reactivities of Mononitrosyl Dinuclear Ruthenium Complexes via Ligand Substitution Reactions (Nagasaki Univ.) TAKEUCHI, Yuki; IKEDA, Ayumi; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke
- 2PA-046** C-N bond formation on a metal complex driven by reduction of an azo group: Isolation and characterization of the reaction product (Fukushima University) MUN, Bisa; TAKASE, Tsugiko; OYAMA, Dai
- 2PA-047** Synthesis and electrochemical behavior of Ru(III) complexes with tropolonato ligands (Kitasato University) KUWAHARA, Kyouhei; YOSHIDA, Jun; YUGE, Hidetaka
- 2PA-048** Redox Behavior of Ruthenium-Polypyridyl Complexes Having a Ruthenium-Carbon Bond (Univ. of Rikkyo) HIRAIDE, Takahide; MIYAZATO, Yuji; WADA, Tohru
- 2PA-049** Synthesis of a Zinc(II) Porphyrin Dimer with a Silicon-based Linker (Fac. Sci., Toho Univ.) KONUMA, Taro; MATSUKAWA, Shiro; TAKAHASHI, Masashi
- 2PA-050** Synthesis and Characterization of a Nitridotecnium Complex with a Polydentate Pyridyl-type Ligand (Grad. Sch. of Sci., Osaka Univ.) SHIROYAMA, Tatsuki; YOSHIMURA, Takashi; TAKAYAMA, Tsutomu; SEKINE, Tsutomu; SHINOHARA, Atushi
- 2PA-051** Synthesis and Reactions of Vanadium Complexes Having Adamantyl-substituted Aryloxide Ligands. (Dept. Chem., Tokyo Tech.) KINOSHITA, Go; HATANAKA, Tsubasa; ISHIDA, Yutaka; KAWAGUCHI, Hiroyuki
- 2PA-052** Studies on Rational Synthesis Method for a Porphyrin Double-Decker Complex (Sch. Sci., Osaka Univ.) SHIMONO, Satsuki; TANAKA, Daisuke; INOSE, Tomoko; TIMMERMAN, Vanessa; TANAKA, Hirohumi; OGAWA, Takuji
- 2PA-053** Synthesis and structure of a new porous coordination polymer

## Coordination Chemistry, Organometallic Chemistry

### coordination chemistry

- 2PA-023** Synthesis, Molecular Structure and Antimicrobial Activities of Silver (I) *L*-Lysinate (Kanagawa Univ. Faculty of Science) INOUE, Chisato; CHIKARAISHI, Noriko; YOSHIDA, Takuya; IYOKU, Sayuri; TAKAYAMA, Akihiko; NOMIYA, Kenji
- 2PA-024** Synthesis, Molecular Structures and Antimicrobial Activities of Silver(I) Polyfluorobenzoic Acids (Kanagawa Univ. Faculty of Science) FURUKOSHI, Yuya; CHIKARAISHI, Noriko; IYOKU, Sayuri; TAKAYAMA, Akihiko; NOMIYA, Kenji
- 2PA-025** Synthesis and structures of gold(III) terpyridine complexes having chloropyridine- and chloropyrimidine-amido. (Univ. of Toyama) IWASHITA, Satoshi; SAITO, Yoshiaki; TSUGE, Kiyoshi
- 2PA-026** Syntheses and property of dinuclear Cobalt complexes by schiff's base reaction (Kinki University) INOMATA, Masataka; SUENAGA, Yusaku
- 2PA-027** Influence of aromatic thiolato Ligand in the formation of silver and cobalt mixed complex (3) (Kochi University, Nagoya Institute of Technology) UEMORI, Takahiro; MATSUMOTO, Kenji; OZAWA, Tomohiro; YONEMURA, Toshiaki
- 2PA-028** Tris(dioximate)-based boron-capped clathrochelate cobalt(II) complexes: syntheses, structures and electrochemical properties (Dept. Chem., Saitama Univ.; CACS, Saitama Univ.) MAKINAE, Satoshi; NAGASAWA, Akira; FUJIHARA, Takashi

- having pore surface decorated with fluorine atoms (JST-ERATO Kitagawa Project; Kyoto University) JEON, Hyung Joon; MATSUDA, Ryotaro; KAJIRO, Hiroshi; KITAGAWA, Susumu
- 2PA-054<sup>#</sup>** Syntheses and sorption functions of new porous metal complexes composed of fluorene motifs (JST-ERATO Kitagawa Project; Kyoto University) MA, Yun-sheng; MATSUDA, Ryotaro; KITAGAWA, Susumu
- 2PA-055** Molecular design and synthesis of a conjugated assembly of heterogeneous coordination sites (IIS, Univ. Tokyo) SUZUKI, Yoshikazu; HIRAYAMA, Kouichirou; SINGAI, Hajime; HOUJOU, Hirohiko
- 2PA-056<sup>#</sup>** Electronic Structure and Coordination Environmental Dependence of Dinuclear Metal Complexes Having Multiple Bonds (Kagawa Univ.; Okayama Univ. of Sci.) NIK AFIZA, BINTI MOHAMAD MRAN; MATSUSHIMA, Ryo; IWAKURA, Masanori; OGASAWARA, Kazuyoshi; SAKANE, Genta; YAMASHITA, Masahiro; ISHII, Tomohiko
- 2PA-057** Synthesis, structures and spectrochemical study of chromium(III) complexes with poly(pyrazolyl) ligands (Saitama University) OGINO, Yasuyo; NAGASAWA, Akira; FUJIHARA, Takashi
- 2PA-058<sup>#</sup>** Ion conductivity of the 1-D copper coordination polymer (Kyoto Univ.) CHEN, Wenqian; HORIKE, Satoshi; KITAGAWA, Susumu
- 2PA-059** Crystal Structures of New Cu(I)-Pd(II) Mixed-Metal Coordination Polymers with Dithiocarbamate Ligands (Kinki Univ.; PRESTO) TOKUGAWA, Kenta; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 2PA-060** Structure and Properties of a Gadolinium Dinuclear Complex (Osaka Prefecture Univ.) INOUE, Masashi; MAKITA, Yoshimasa; FUJIWARA, Shin-ichi; OGAWA, Akiya
- 2PA-061** Theoretical Studies on Luminescent Iridium(III) Complexes with Five and Six-membered Cyclometalated Bond (Faculty of Science and Engineering, Chuo University) YAMADA, Kie; MORI, Hiroto; SUGAYA, Tomoaki; TADOKORO, Makoto; OZAWA, Hiroaki; HAGA, Masa-aki
- 2PA-062** Structure and Luminescent Property of Hydrogen Bonded Biimidazole Iridium(III) Complexes (Tokyo Univ. of Science) SUGAYA, Tomoaki; TAKAHASHI, Fumi; SUZUKI, You; ISODA, Kyosuke; TADOKORO, Makoto
- 2PA-063** Synthesis and Characterization of Dilithium complexes with Phenolate Ligands (Aichi Inst. Tech.) KURABE, Aiko; KAJITA, Yuji; KUGIMIYA, Shinichi
- 2PA-064** Structure and Magnetic Properties of alternating Chain with Canted Antiferromagnetic Interaction Constructed by Dicarboxylate-bridged Mn(III)-salen complex : towards to Single-Chain Magnets (Tohoku Univ.) AONO, Yoshitaka; KATO, Keiichi; TAKAISHI, Shinya; BREEDLOVE, Brian K.; YAMASHITA, Masahiro
- 2PA-065** Molecular design and ion size recognition property of lanthanide selective coordination ligand PTA (JAEA) KOBAYASHI, Tohru; SUZUKI, Shinichi; SHIWAKU, Hideaki; OKAMOTO, Yoshihiro; YAITA, Tsuyoshi
- 2PA-066** Transition Behavior of Ni(II)-Diamine Complex Exhibits Reversible Acetonitrile Adsorption-Desorption Clarified by Crystal Structure Analysis from Powder X-ray Diffraction Data (Rigaku ASD) SASAKI, Akito; KONAKA, Hisashi
- 2PA-067** Mathematical Control in the Self-Assembly of Spherical Complexes: Towards  $M_{30}L_{60}$  Formation (School of Engineering, The Univ. of Tokyo) NUMATA, Eri; SATO, Sota; FUJITA, Makoto
- 2PA-068** Single-crystal neutron structure analysis of a single-crystalline photochromic platinum complex under dark (Rikkyo Univ.; CROSS; Univ. of Tokyo; Tokyo Inst. Tech.; Ibaraki Univ.; JAEA) MATSUSHITA, Nobuyuki; OHHARA, Takashi; ARAKI, Kosei; OZEKI, Tomoji; TANAKA, Ichiro; KUSAKA, Katsuhiro; HOSOYA, Takaaki; YAMADA, Taro; KURIHARA, Kazuo; NIIMURA, Nobuo
- 2PA-069** Water Clusters in Nano Porous Crystals Containing Polyoxometalate (Tokyo University of Science) SAITO, Kazuki; ISODA, Kyosuke; SUGAYA, Tomoaki; SUZUKI, Yo; MATSUI, Hiroshi; TADOKORO, Makoto
- 2PA-070<sup>#</sup>** A new porous metal complex having large channels decorated with hydroxyl groups (JST-ERATO Kitagawa Project; Kyoto University) KANOO, Prakash; MATSUDA, Ryotaro; KITAGAWA, Susumu
- 2PA-071** Construction and crystal structure of three dimensional chiral zinc MOF by introducing pillar ligand (Kansai Univ.; Kyoto Univ.) HOTTA, Naoki; TANAKA, Koichi; TAKAHASHI, Hiroki
- 2PA-072** Design and Synthesis of Building Blocks for Formation of Desymmetrized Supramolecular Complexes by Molecular Self-assembly with Dinuclear Zinc(II) Complex (Fac. Pharm. Tokyo Univ. of Sci.) TANAKA, Ryo; SUZUKI, Asami; ZULKEFELI, Mohd; HISAMATSU, Yosuke; SHIRO, Motoo; AOKI, Shin
- 2PA-073** Photo-induced electron transfer of hybrid systems of Chiral amino acid derivatives of Schiff base Cu(II) complexes and titanium(IV) oxide or other materials (Tokyo Univ. of Science, Faculty of Science) KURATA, Makiha; YOSHIDA, Naoki; FUKUNAGA, Saori; AKITSU, Takashiro
- 2PA-074** Synthesis, structure, and C-H activation of dinuclear iron complexes with a dinucleating ligand mimicking a common carboxylate-rich coordination environment of non-heme diiron enzymes (Doshisha Univ.) NAKAKITA, Tetsufumi; KODERA, Masahito; HITOMI, Yutaka
- 2PA-075** Photosensitizing properties of cationic iridium complexes with ligands of 2-(2-pyridyl)benzo[h]thiophene (The Univ. of Tokyo) TAKIZAWA, Shin-ya; SHIMADA, Kengo; MURATA, Shigeru
- 2PA-076** Molecular assembly and reactivity of nickel(II) dithiocarbamate with terminal carboxylic moieties (Osaka Institute of Technology) NOMURA, Ryoki; MARI, Yuya; BUITAN, Tien; OHTAKA, Atsushi; SHIMOMURA, Osamu
- 2PA-077** Oxidation Reactivity of a Nickel-mCPBA Complex (Kanagawa Univ.) NAKAZAWA, Jun; TERADA, Shota; YAMADA, Masaki; HIKICHI, Shiro
- 2PA-078<sup>#</sup>** Ru-Re based photocatalysts for solar CO<sub>2</sub> reduction (Kyushu Univ. Sci; IMCE; IZCNER) MOHAMED, Eman, A.; ZAHARAN, Zaki, N.; OHTA, Takehiro; NARUTA, Yoshinori
- 2PA-079** Photoreduction of carbon dioxide under visible light irradiation using rhenium complexes as catalysts in vesicles (The Univ. of Tokyo) IKUTA, Naoya; TAKIZAWA, Shin-ya; MURATA, Shigeru
- 2PA-080** Construction of effective photoinduced electron transfer system by fixation of lipophilic tris(2,2'-bipyridyl)ruthenium on the outer surface of liposome (Kyushu Univ.) HATAE, Tatsuru; OKAMURA, Tomoya; KOSHIYAMA, Tomomi; OHBA, Masaaki
- 2PA-081** Syntheses, structures and reactivities of Metallaphosphinoboranes  $Cp^*(CO)_2M[P(Ph)=B(Mes)_2]$  (M = Fe, Ru) (Hiroshima University) OHNO, Akira; KAWANAKA, Tomohiro; KUBO, Kazuyuki; MIZUTA, Tsutomu
- 2PA-082** Synthesis of novel dissymmetric diruthenium complexes and the ligand photosubstitution reaction (Tokyo Metropolitan University, Faculty of Urban Environmental Science, Department of Applied Chemistry) HOSAKA, Taichi; EGUCHI, Tomohumi; SATO, Kiyoshi; YAMAGUCHI, Motowo
- 2PA-083** CO<sub>2</sub> Fixation Using Porphyrin Complex Immobilized on Biogenic Iron Oxide (Okayama University) EMA, Tadashi; TANIGUCHI, Tomoya; MIYAZAKI, Yuki; TAKADA, Jun
- 2PA-084** Reactivities of zinc(II) dithiocarbamate complexes having terminal carboxylic functionality (Osaka Institute of Technology) NOMURA, Ryoki; MARI, Yuya; BUITAN, Tien; BABA, Satoshi; OHTAKA, Atsushi; SHIMOMURA, Osamu
- 2PA-085** Luminescent Mechanochromism of dinuclear silver(I) complexes with various bridging ligands (Univ. of Yamanashi) TSUKUDA, Toshiaki; KOHNO, Tsukasa
- 2PA-086** Enhancement of blue phosphorescence of dicyanoaurate(I) oligomer with association of quaternary ammonium ions (Univ. of Toyama) WAKABAYASHI, Ryo; IWAMURA, Munetaka; NOZAKI, Koichi
- 2PA-087** Photochromic behavior of hexanuclear gold cluster in aqueous organic solvent. (Graduate School of Env. Science, Hokkaido Univ.) CHO, Meitetsu; KAMEI, Yutaro; SHICHIBU, Yukatsu; KONISHI, Katsuaki
- 2PA-088** Fast proton transfer induced by pore-surface modification of coordination polymer (Kyoto Univ.) KAMITSUBO, Yusuke; HORIKE, Satoshi; FUKUSHIMA, Tomohiro; INUKAI, Munehiro; KITAGAWA, Susumu
- 2PA-089** Synthesis and properties of the double-decker complexes bearing substituents containing sulfur (Nihon Univ.; College of Science and Technology) KIDA, Yuki; OTSUKI, Joe; TOJO, Tadashi; SHINOZAKI, Yoshinao
- 2PA-090** Structure and magnetic properties of cobalt complexes with a verdazyl radical and semiquinone radical (IGSES, Kyushu Univ.) AKIYOSHI, Shogo; KANEGAWA, Shinji; KANG, Soonchul; SATO, Osamu
- 2PA-091** Construction of molecular assemblies with multi-electron transfer ability using tetrafluorocatecholato Cr(III) complex (Hokkaido Univ., Faculty of Science) WAKIZAKA, Masanori; MATSUMOTO, Takeshi; USUI, Akane; KOBAYASHI, Atsushi; CHANG, Ho-cho; KATO, Masako
- 2PA-092** Crystal Structure and Electric Conductivities of 1-D Coordination Polymer including Dithiocarbamate Derivatives. (Kinki Univ.; PRESTO) SUZUKI, Shimpei; ANMA, Haruho; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 2PA-093** Crystal Growth of Coordination Polymers on TiO<sub>2</sub> Substrates with Self-Assembled Monolayers (Kinki Univ.; PRESTO) TANAKA, Hideyuki; SANTANDA, Nobuki; HIROTA, Ayumi; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 2PA-094** Synthesis and Properties of Novel Half-Phtalocyanine Complex (Grad. Sch. Sci., Osaka Univ.) SHIGEYOSHI, Natsuko; KIKUKAWA, Yuu; FUYUHIRO, Akira; FUKUDA, Takamitsu; ISHIKAWA, Naoto
- 2PA-095** Synthesis and Physicochemical Properties of 3d-Transition Metal Complexes Bearing 2-Aminophenolato and 2-Aminothiophenolato (Hokkaido Univ., Department of Science) USUI, Akane; WAKIZAKA, Masanori; MATSUMOTO, Takeshi; KOBAYASHI, Atsushi; CHANG, Ho-cho; KATO, Masako
- 2PA-096** Luminescence spectra of novel Eu complexes containing enantiomeric skeletons (Coll. Sci. Eng., Aoyama Gakuin Univ.) YAMAGUCHI, Masafumi; SAKURAI, Syoya; TAKAHASHI, Isao; HASEGAWA, Miki
- 2PA-097** Emission Spectral Changes of a Eu Complex with a Hexadentate Ligand Caused by Intermolecular Interaction to Cytosine Analogous (College of Science and Engineering, Aoyama Gakuin University) AWATANI, Tomohiko; SAKURAI, Shoya; TAKAHASHI, Isao; HASEGAWA, Miki
- 2PA-098** Synthesis and luminescence property of chain europium complex bridged by isophthalic acid (College of Science and Engineering, Aoyama Gakuin University) YAMADA, Chisaki; SATO, Saki; TAKAHASHI, Isao; HASEGAWA, Miki
- 2PA-099** Magnetic Properties of Cr-Substitution Effect in an Iron Mixed Valence Complex (Tokyo Univ. of Science, The University of Tokyo)

- INABA, Michikazu; IDA, Hiromichi; ENOMOTO, Masaya; OKAZAWA, Atsushi; KOJIMA, Norimichi
- 2PA-100** Synthesis and Characterization of TANC Derivatives with p-Conjugated Substituents (TUS) HAGA, Harufumi; ISODA, Kyosuke; TADOKORO, Makoto
- 2PA-101<sup>#</sup>** Synthesis and Characterisation of Ir,Pt-Centred Hybrid Molecular Devices for Photoinduced Hydrogen Evolution from Water (Kyushu University) SHELTON, Paul; KITAMOTO, Kyoji; SAKAI, Ken
- 2PA-102** Synthesis and Characterization of p-Conjugated TANC Coordinated with Alkali Metal Ions (TUS) ADACHI, Kaoru; ISODA, Kyosuke; TADOKORO, Makoto
- 2PA-103<sup>#</sup>** Post-synthetic carrier doping into Covalent-Organic Frameworks (Tohoku Univ.) Hsieh, Chin; TAKAISHI, Shinya; YAMASHITA, Masahiro
- 2PA-104<sup>#</sup>** Host-Guest Chemistry Using Crown Ether and Nickel(II) Polyaza-macrocyclic Complexes (Suncheon Nat. Univ.) KWAK, Chee-hun; CHUNG, Minchul; CHANG, Mee
- 2PA-105** Synthesis and Hydrogen-Evolving Activity of a Macrocyclic Nickel-Carbene Complex (Kyushu Univ.; WPI-I2CNER; IRCMS) KAWANO, Ken; YAMAUCHI, Kosei; SAKAI, Ken
- 2PA-106** Cold crystallization in Schiff-base nickel(II) complexes (University of Tsukuba, DENSŌ CORPORATION, Univ. of Tsukuba) IWASE, Katsunori; HOUJOU, Hirohiko; YAMAMURA, Yasuhisa; SAITO, Kazuya
- 2PA-107** Control of phase transition temperature between mixed and averaged valence states in quasi-one-dimensional bromide-bridged palladium complex by using structural perturbation (Tohoku University) KUMAGAI, Shohei; TAKAISHI, Shinya; KATO, Keiichi; BLEEDLOVE, Brian; YAMASHITA, Masahiro
- 2PA-108** Synthesis and photo-hydrogen-evolving activity of water-soluble phosphine-platinum(II) complexes (Kyushu Univ.; WPI-I2CNER; IRCMS) LIN, Shu; YAMAUCHI, Kosei; SAKAI, Ken
- 2PA-109** synthesis and spectroscopic properties of dinuclear platinum(II) complexes of fused salphen (IIS, Univ. Tokyo) MA, Yilan; YAGI, Keisuke; HOUJOU, Hirohiko
- 2PA-110** Phosphorescence properties of bipyridine diacetylidate platinum (II) complexes at cryogenic temperatures. (Univ. of Toyama) NARUSE, Daisuke; SUZUKI, Shuichi; OKADA, Keiji; IWAMURA, Munetaka; NOZAKI, Koichi
- 2PA-111** Control of Photochemical Properties of Rhenium(I) Diimine Complexes by Use of Substituents (Tokyo Institute of Technology) INUMARU, Hiroki; MORIMOTO, Tatsuki; KOIKE, Kazuhide; ISHITANI, Osamu
- 2PA-112** Crystal Structure and Magnetic and Conducting Properties of One-dimensional Rhodium-Dioxolene Complex (Univ. of Hyogo) KOMATSU, Yuki; HASHIMOTO, Masahiro; MATSUMI, Minoru; TORIUMI, Koshiro
- 2PA-113** Syntheses and Properties of pi-Expanded Ruthenocene-Type Complexes with N-Fused Porphyrinate Ligand (Graduate School of Engineering, Kyushu University) MATSUO, Hideaki; TOGANO, Motoki; FURUTA, Hiroyuki
- 2PA-114** Synthesis and characterization of diruthenium complex having both photosensitizing and oxygen-evolving centers. (Kyushu University) SAKAI, Kakeru; SAKAI, Ken
- 2PA-115** Syntheses and Properties of Ruthenium Complexes Containing 2,6-Pyridinedicarboxylate and 2,2'-Bipyridine (Fac. Sci., Sophia Univ.) OTSUKA, Midori; NAGAO, Hirotaka
- 2PA-116** Development of a synthetic method of hybrids of polyoxometalates with photofunctional metal complexes, and photophysical properties of the hybrid (Tokyo Tech.) OHASHI, Kenji; TAKEDA, Hiroyuki; KOIKE, Kazuhide; ISHITANI, Osamu
- 2PA-117** Circularly Polarized Luminescence of Samarium and Terbium Complexes with Asymmetric  $\beta$ -diketonato and Chiral Tridentate Ligands (Shimane Univ.) HARADA, Takashi; TOKUDA, Keisuke; NISHIYAMA, Katsura; YUASA, Junpei; KAWAI, Tsuyoshi
- 2PA-118** Synthesis and properties of MOF compounds containing 2,4-PDC (Fac. Eng., Niigata Univ.) MIURA, Kazuhiro
- 2PA-119** Quantitative Analysis of Coexisting Rare-Earth Metal Ions Using Fluorescence Spectroscopy of Terbium(III) Complexes (Univ. of Aichi Prefecture) TAURA, Toshiaki; DOUKI, Yasuhito
- 2PA-120** Electronic structures of binuclear phthalocyanine quadruple-decker .pai.biradical (Osaka University) NAKAMORI, Arisa; FUYUHIRO, Akira; FUKUDA, Takamitsu; ISHIKAWA, Naoto
- 2PA-121** Complex formation of lanthanide with porphyrine derivatives fused with thiadiazole rings (Osaka Univ.) KOMATSU, Hiroyuki; FUYUHIRO, Akira; FUKUDA, Takamitsu; ISHIKAWA, Naoto
- 2PA-122** Luminescence Behavior of a LB film of Tb-phenC18 (College of Science and Engineering, Aoyama Gakuin University) GOTOH, Naoto; TSUCHIYAGAITO, Junko; TAKAHASHI, Isao; HASEGAWA, Miki
- 2PA-123** Magnetic behaviors of tetraazaporphyrin lanthanide double-decker complexes due to oxidation of the ligands (Grad. Sch. Sci., Osaka Univ.) TSUCHIYA, Satoshi; FUYUHIRO, Akira; FUKUDA, Takamitsu; ISHIKAWA, Naoto
- 2PA-124** Generation of Chemically Reduced Phthalocyanine Double-Decker Complexes and Elucidation of Their Electronic Structures (Grad. Sch. Sci., Osaka Univ.) ITOH, Takuya; FUKUDA, Takamitsu; FUYUHIRO, Akira; ISHIKAWA, Naoto
- 2PA-125** Development of Lanthanide Complexes with Perylene-bisimide derivatives. (Coll. Sci. Eng., Aoyama Gakuin Univ.) ISHIBASHI, Takashi; TAKAHASHI, Isao; HASEGAWA, Miki
- 2PA-126** Self-assembled supramolecular complexes of photosensitizer naphthalimide having a bipyridine moiety (Nihon Univ.; College of Science and Technology) NITTA, Kaima; OTSUKI, Joe; SUGAWA, Kousuke
- 2PA-127** Synthesis and properties of earth-abundant metal complexes with negatively charged tetradentate ligands (Nihon Univ.; College of Science and Technology) Tsubonouchi, Yuta; OTSUKI, Joe
- 2PA-128** Hydrogen Photoproduction from Water Using Nickel Complexes with Non-innocent Ligands (Kanagawa University, Faculty of Science) MITSUHASHI, Manabu; ONO, Takeshi; YOSHIDA, Mikiko; MIYAZAKI, Yuhei; KATAOKA, Yusuke; KAWAMOTO, Tatsuya
- 2PA-129** Structure and reactivity of dinuclear copper complexes bearing quinoline skeletons (Fac. Sci. and KYOUSEI Science Center, Nara Women's Univ.) TAKEKOSHI, Ayaka; MIKATA, Yuji
- 2PA-130** Preparation of Heme-tethered Polythiophene toward Construction of Hemoprotein-Conductive Polymer Conjugates (Osaka Univ.) UMEDA, Yasunari; ONODA, Akira; HAYASHI, Takashi
- 2PA-131** Complexation between Diiron Carbonyl Complex and Cysteine Residues within  $\beta$ -barrel Protein Matrix toward a Model of the Active Site of [FeFe]-hydrogenase. (Osaka Univ.) KIHARA, Yoshihiko; ONODA, Akira; HAYASHI, Takashi
- 2PA-132** Photoreduction of cytochrome c by using water soluble CdSe/ZnS (core/shell) quantum dot (Nara Women's University Faculty of Science) HAYAFUJI, Miho; TAKASHIMA, Hiroshi; TSUKAHARA, Keiichi
- 2PA-133** Synthesis of Reduced [4Fe-4S]<sup>+</sup> Clusters Carrying Tridentate Thiolate Ligand (Grad. Sch. Sci. and Res. Ctr. Mat. Sci., Nagoya Univ.) TERADA, Tamaki; MATSUMOTO, Tsuyoshi; TATSUMI, Kazuyuki
- 2PA-134** Interconversion Between [Fe4S4] and [Fe2S2] Clusters Induced by Pyridine Addition/Elimination (School of Science, Graduate School of Science and Research Center for Materials Science, Nagoya University) TAJIMA, Shunichi; TANIFUJI, Kazuki; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 2PA-135** Synthesis and characterization of bis( $\mu$ -oxo) dinuclear manganese complexes supported by N,N'-dimethylethylenediamine derivatives with quinoline and isoquinoline moieties (Graduate School of Humanities and Sciences and KYOUSEI Science Center, Nara Women's Univ.) KURODA, Yasuko; MIKATA, Yuji
- 2PA-136<sup>#</sup>** Low-Valent, Dithiolato-Bridged Iron-Nickel Complexes as Structural Models for the Reduced Form of [NiFe] Hydrogenase (Graduate School of Science and Research Center for Materials Science, Nagoya University) LI, Zilong; NAGAHARA, Atsumu; OHKI, Yasuhiro; TATSUMI, Kazuyuki
- 2PA-137** Ni(I) Thiolate Complexes: Model Synthesis of the Acetyl CoA Synthase Active Site (Sch. Sci. and Grad. Sch. Sci. and Res. Ctr. Mat. Sci., Nagoya Univ.) SUZUKI, Hironori; OSU, Rie; OZAWA, Yuka; ITO, Mikinao; MATSUMOTO, Tsuyoshi; TATSUMI, Kazuyuki
- 2PA-138** Cytotoxic Activity of Palladium(II) Complexes with Dithiocarbamate and 1,10-Phenanthroline Derivatives (Kansai Univ.) FURUSAWA, Hideaki; NAKAI, Misaki; SATO, Takaji; MINO, Yoshiki; NAKABAYASHI, Yasuo
- 2PA-139** DNA Photocleavage Activity and Cytotoxicity of Mixed-Ligand Ruthenium(II) Complexes (Kansai Univ.) IIZUKA, Naho; NAKAI, Misaki; NAKABAYASHI, Yasuo
- 2PA-140** Liquid Crystalline properties and Structures of Salen-Bridged Dibenzothiophene Macrocyclic Metal Complexes (Department of Chemistry, Graduate School of Science, Nagoya University; CREST/JST) HAMAIZAKI, Takashi; KAWANO, Shin-ichiro; TANAKA, Kentaro
- 2PA-141** Synthesis and Self-Assembled Orientation of Discrete Molecular Square Consisting of Paddle Wheel Complex. (Department of Chemistry, Graduate School of Science, Nagoya University; CREST/JST) SASAKI, Aki; KAWANO, Shin-ichiro; TANAKA, Kentaro

## Organometallics

- 2PA-142** Homogeneous Coupling Reaction of Tertiary Organochlorosilanes Utilizing Molybdenum Hydrido Complexes (Yokohama National Univ.) ASaeda, Takahiro; MINATO, Makoto; LEE, Jooyong
- 2PA-143** Hydrolytic polycondensation of bulky silanes under the catalysis of Si-Mo complex (Yokohama National Univ.) WATANABE, Hiroshi; MINATO, Makoto
- 2PA-144** Preparations of Metal Complexes having a Bis(N-heterocyclic carbenes) Ligand (Nagasaki Univ.) NAKAMURA, Takuo; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke
- 2PA-145** Syntheses of Group 11 Metal Complexes having a Mesitylene Linked Triscarbene Ligand (Nagasaki Univ.) EGUCHI, Kazushige; NAKAMURA, Takuo; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke
- 2PA-146** Synthesis and Structures of Cobalt Complexes Bearing Newly Prepared Oligopyridine Ligands (Nagasaki University) HIRATA, Goki; ONODERA, Gen; KIMURA, Masanari
- 2PA-147** Synthesis and Properties of Linear Two-Coordinate Organoiron(II) Complexes (Kinki University) GODA, Shun; MATSUO, Tsukasa; ITO, Mikinao; HASHIZUME, Daisuke; TAMAO, Kohei; OKAZAWA, Atsushi; KOJIMA, Norimichi; KOBAYASHI, Yoshio
- 2PA-148** Property and Reactivity of a Butterfly-Type Tetrairon Cluster Possessing Acetylene and Isonitrile Bridging Ligands (Graduate School of

- Science and Technology, Hirosaki Univ.) KUDO, Naotsugu; OKAZAKI, Masaaki
- 2PA-149** Synthesis and Thermal Properties of Ferrocene-containing Pseudotaxanes with Various Counteranions (Tokyo Inst. of Tech., Chem. Res. Lab.) FUKUCHI, Yugo; SUZAKI, Yuji; OSAKADA, Kohtaro
- 2PA-150** Synthesis of 2-Aryl-3-oxocyclobutenyl Palladium(II) Complex from Propargyl Chloride, CO, and Pd (0) Complex (Fac. of Eng., Saitama Inst. of Tech.) SEKI, Ryosuke; TANIFUJI, Ryutaro; IWASAKI, Masakazu
- 2PA-151** Attempted Synthesis of the (Z)-1,2-Dialkynylsilenes toward Masamune-Bergman Reaction (Institute for Chemical Research, Kyoto University) EGAWA, Yasunobu; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro
- 2PA-152** Synthesis of siloxane cage compounds using  $B(C_6F_5)_3$  catalyst (Kanagawa University) FUKAWA, Marina; SUZUKI, Ryuya; KABE, Yoshio
- 2PA-153** Effect of the Substituents in the Iridacyclopentadienyl Complex on the Introduction of Two Oxygen Atoms (Department of Chemistry, Faculty of Science, Nara Women's Univ.) TAKAHARA, Aoi; URA, Yasuyuki; KATAOKA, Yasutaka
- 2PA-154** Inversion-at-metal of optically-active [MeCpRu(Propfos)Cl] (Coll. Ind. Technol., Nihon Univ.) HIYAHARA, Chiemi; TSUNO, Takashi; BRUNNER, Henri
- 2PA-155** Synthesis and Properties of Amine-, Anionic Carbon-, or Anionic Oxygen-Coordinated Bistridentate Ruthenium(II) Polypyridyl Complexes (CST, Nihon University) TAKAMORI, Yuya; OTSUKI, Joe; ISLAM, Ashraf; OGAWA, Keizou
- 2PA-156** Synthesis and hydrogen bonding network of silanol derivatives based on tetraphenylsilane (Kanagawa University) HARA, Yuuki; HORIKAWA, Takuya; YANASE, Akihiko; FURUKAWA, Yuuya; KABE, Yoshio
- 2PA-157** Hydrogen bonding molecular complex of calix[4]arene olisilanol derivative (Kanagawa University) TANAKA, Keita; OHASHI, Yu; SATO, Takayuki; KABE, Yoshio
- 2PA-158** Development of highly effective catalytic hydrogenation catalyzed by iron carbonyl complex (Graduate School of Engineering Sciences Kyushu University) SHIGETA, Keisuke; TSUTSUMI, Hironori; SUNADA, Yusuke; NAGASHIMA, Hideo
- 2PA-159** Transmetalation of Arylboronic Acid and Arylpalladium Complexes Bearing 1,2-Bis(2-pyridylethynyl)benzene Ligand (Tokyo Inst. of Tech., Chem. Res. Lab.) SUZAKI, Yuji; SAITO, Takashi; OSAKADA, Kohtaro
- 2PA-160** Ligand exchange reactions of trinuclear ruthenium-arene complex with two-electron donor (Hirosaki Univ.) TSUKAHARA, Yuhei; OKAZAKI, Masaaki
- 2PA-161** Development of Siloxane Cross-coupling Type Reaction Based on a Novel Synthesis Method of Silanols (AIST) IGARASHI, Masayasu; ANDO, Wataru; SATO, Kazuhiko; SHIMADA, Shigeru
- 2PA-162<sup>#</sup>** Highly efficient hydrogen generation by dehydrogenation of formic acid with proton-responsive complexes (AIST) HIMEDA, Yuichiro; WANG, Wanhui; HULL, Jonathan F.; MUCKERMAN, James T.; FUJITA, Etsuko
- 2PA-163** Substituent effect on the catalytic epoxidation with *para*-substituted tetraphenylporphyrin-ruthenium (II) isocyanide complexes (Univ. of Kitasato) YASUDA, Shohei; YOSHIDA, Jun; YUGE, Hidetaka

## Resources Utilization Chemistry

- 2PA-165** Production of lower olefins via syngas over supported Fe catalysts (AIST) TAKAHARA, Isao; MURATA, Kazuhisa; LIU, Yanyong; INABA, Megumu
- 2PA-166** Preparation of Nanocrystalline Cellulose using Solid Acid Catalysts (Okayama Biomass Innovation Creative Center) ONO, Fumiaki; OKADA, Kenji; KAWABATA, Koji; FUJII, Eiji
- 2PA-167** Gaseous ammonia exposing pretreatment of napiergrass for ethanol production through a simultaneous saccharification and fermentation (University of Miyazaki, Faculty of Engineering) TAKEO, Keisuke; ISHII, Yasuyuki; MATSUMOTO, Tomoko; YASUDA, Masahide
- 2PA-168** Fiber Properties of Wool Fibers Colored by Maillard Reaction (Osaka Municipal Technical Research Institute) OHE, Takeru; YOSHIMURA, Yurika; SHIMADA, Yuji
- 2PA-169** Thermal reaction of glucose with a  $SO_4^{2-}$  doped  $(Fe_2O_3-ZnO)/SiO_2$  catalyst (Nihon Univ., College of Science and Technology, Department of Liberal Arts and Science) ISHII, Kazutaka; YONEDA, Tetsuya; KOIZUMI, Koshiro; ISHIMI, Katsuhiko; AOYAMA, Tadashi; TAKIDO, Toshio; KONUMA, Kenji
- 2PA-170** Effect of hydrothermal treatment on enzymatic hydrolysis and ethanol fermentation of sea algae (Kochi Univ, Res. Lab. Hydrothermal Chem.) OKUDA, Kazuhide
- with Functional Groups Forming Hydrogen Bonds (Ochanomizu Univ.) NISHIYAMA, Shizuka; MATSUMURA, Mio; FUJIMOTO, Noriko; MASU, Hyuma; KATAGIRI, Kousuke; AZUMAYA, Isao; KAGECHIKA, Hiroyuki; TANATANI, Aya
- 2PB-002** Synthesis and conformational analysis of pyrrole-containing aromatic oligoamides (Ochanomizu Univ.) TOJO, Yukiko; MATSUMURA, Mio; TANATANI, Aya
- 2PB-003** The synthesis and optical resolution of 5,5'-dibromo-2,2',3,3'-tetrahydroxy-1,1'-binaphthyl (Kansai Univ.) ISHIMOTO, Shoma; TANAKA, Koichi
- 2PB-004** Enantioresolution and Assignment of Absolute Configurations of Aromatic Alcohols by 2-Menthoxybenzoic Acid (Faculty of Science, Toho University & Research Center for Materials with Integrated Properties, Toho University) TASAKI, Nobuyoshi; HABATA, Yoichi; KUWAHARA, Shunsuke
- 2PB-005** Synthesis of porphyrin conjugated 2-methoxy-2-arylpropionic acid (Faculty of Science, Toho University; Research Center for Materials with Integrated Properties, Toho University) NAKAZAWA, Mitsuyuki; HABATA, Yoichi; KUWAHARA, Shunsuke
- 2PB-006** Synthetic Study of A Heterocyclic Molecular Motor Toward DNA Conformational Change (Faculty of Science, Toho University & Research Center for Materials with Integrated Properties, Toho University) NOGUCHI, Toshiaki; HABATA, Yoichi; KUWAHARA, Shunsuke
- 2PB-007** Synthesis and structural analysis of zinc porphyrinylamide and zinc porphyrinylurea derivatives. (Ochanomizu Univ.) KANEKO, Tomoyo; MATSUMURA, Mio; MURANAKA, Atsuya; UCHIYAMA, Masanobu; KAGECHIKA, Hiroyuki; TANATANI, Aya
- 2PB-008** Synthesis of Zinc Chlorophyll Derivatives and Their Coordination Ability (Ritsumeikan Univ.) TAMIAKI, Hitoshi; KUNO, Masaki
- 2PB-009** Synthesis of Novel Tetrabenzotriazacorrole Derivatives (Faculty of Science, Tohoku Univ.) SUGIYA, Yusuke; FURUYAMA, Taniyuki; KOBAYASHI, Nagao
- 2PB-010** Synthesis of Sandwich-like Triple-Decker metal complexes of Bisporphyrin (Graduate School of Science and Engineering, Ehime Univ.; Integrated Center for Sciences, Ehime Univ.) WATANABE, Yuta; MORI, Shigeki; MAKAE, Takahiro; OKUJIMA, Tetsuo; UNO, Hidemitsu
- 2PB-011** Synthesis and supermolecular formation of new amphiphilic groups-substituted porphyrins at meso positions (Keio Univ.) NOMURA, Yoshihiro; SAKAI, Hayato; HASOBE, Taku
- 2PB-012** Birch Reduction and Subsequent Functionalization of Xylylene-dithiophthalocyanine. (Iwate Univ.) KIMURA, Takeshi; TEDUKA, Hikaru
- 2PB-013** Synthesis of Oxidized Forms of Sextuple-Decker Phthalocyanine Complexes and Analysis of Their Electronic Structures (Osaka Univ.) YAMAMOTO, Kazuaki; FUKUDA, Takamitsu; FUYUHIRO, Akira; ISHIKAWA, Naoto
- 2PB-014** Synthesis of a benzene-fused porphycene dimer (Osaka Univ.) AKASAKA, Kenta; OOHORA, Koji; HAYASHI, Takashi
- 2PB-015** Synthesis of dibenzoporphycene (Osaka Univ.) OGAWA, Ayumu; AKASAKA, Kenta; FUKUDA, Tamaki; OOHORA, Koji; HAYASHI, Takashi
- 2PB-016** Synthesis and properties of the extended  $\pi$ -electronic conjugated porphyrin derivative carrying aromatic rings stimulated by proton and metal ions (Grad. Sch. Sci. Eng., Univ. of Toyama) KEMPE, Hideto; KOZAKE, Yui; YOSHINO, Junro; HAYASHI, Naoto; HIGUCHI, Hiroyuki
- 2PB-017** Synthesis of a Norbornadiene-Fused Porphyrinoid (Department of Chemistry, Graduate School of Science, Nagoya University; Research Center for Materials Science, Nagoya University; Institute of Transformative Bio-Molecules (WPI-ITbM), Nagoya University; PREST, Japan Science and Technology Agency) YOSHIKAWA, Toshiki; SAITO, Shohei; YAMAGUCHI, Shigehiro
- 2PB-018** Concentration dependence in UV-vis. spectra of TPP type porphyrins bearing plural *N,N*-dimethylamino groups. (Gunma National College of Technology) ENOMOTO, Takafumi; NAKAJIMA, Satoshi
- 2PB-019** Synthesis and photophysical properties of diarylamino-functionalized pyrene derivatives via Buchwald-Hartwig amination reaction (Graduate School of Science and Engineering, Saga University) SETO, Nobuyuki; FENG, Xing; YAMATO, Takehiko
- 2PB-020** Syntheses and evaluation of hexaazatriphenylene derivatives (Fac. Sci. Tech., Keio Univ.) AOKI, Toru; SAKAI, Hayato; HASOBE, Taku
- 2PB-021** Synthesis and Properties of Cyclic Polyphenylene Arrays for the Bottom-up Synthesis of Strawlike Carbon Nanotube Segment (Hirosaki Univ.) ASAI, Shintaro; SEKIGUCHI, Ryuta; ITO, Shunji; KAWAKAMI, Jun
- 2PB-022** Synthesis of covalently linked dehydrobenzo[12]annulene arrays by using Molecular Module Method and their supramolecular assemblies (Graduate School of Engineering, Osaka University) OSAKA, Keisuke; HISAKI, Ichiro; TOHNAI, Norimitsu; MIYATA, Mikiji
- 2PB-023** Synthesis and emission behavior of 1,6-methano[10]annulene-3,4-dicarboximide having an aromatic amine on the nitrogen (Shinshu University; University of Toyama) ODA, Mitsunori; SATO, Tomomasa; MIYATAKE, Ryuta
- 2PB-024** Synthesis and Photophysical Properties of 1,9-Fused Carbazoles by Benzhydryl Group (Osaka Kyoiku Univ.) HORI, Kazushige; KAWAMOTO, Masaya; ORIBE, Kenichi; TANI, Keita
- 2PB-025** Synthesis and Photophysical Properties of novel carbazole-pyridine

Saturday, March 23, AM

(12 : 30 ~ 14 : 00)

## Physical Organic Chemistry -Structures and Properties-

- 2PB-001** Conformational and Chiral Property of Aromatic Cyclic Triamide



- fused heterocycles (Osaka Kyoiku Univ.) ORIBE, Kenichi; NAMBU, Ryuto; HORI, Kazushige; TANI, Keita
- 2PB-026** Synthesis and optical properties of cyclic pi-conjugated compounds using carbazole (Univ. of Yamanashi) SHIMURA, Kyosuke; HANAI, Kaito; TANAKA, Misa; OGAWA, Kazuya
- 2PB-027** Structures and Properties of Carbazolophane Derivatives with Amide bond (Osaka Kyoiku Univ.) KATO, Haruka; OGAMI, Fuko; HORI, Kazushige; TANI, Keita; SAKAKIBA, Keita; TSUJII, Yoshinobu; TAKEMURA, Hiroyuki; KUBONO, Koji
- 2PB-028** Synthesis and Properties of Triply Bridged Carbazolophane Derivatives Having Phenylamine Moiety in Bridged Site (Osaka Kyoiku Univ.) OGAMI, Fuko; KATO, Haruka; KUBONO, Kouji; HORI, Kazushige; TANI, Keita
- 2PB-029** Synthesis and Property of Diarylethenes Derivatives with 6-Aryl Carbazole Moiety (Osaka Kyoiku Univ.) SUMITANI, Nobuto; TAKAYAMA, Yoshiyuki; SAKATA, Naoya; HORI, Kazushige; KUBONO, Koji; TSUJIOKA, Tsuyoshi; TANI, Keita; GOTO, Kenta; SHINMYOZU, Teruo
- 2PB-030** Synthesis and Properties of  $\pi$ -Extended Thiadiazoloquinoxalines (Grad. Sch. Eng., Gunma Univ.) WATANABE, Keitaro; TANAKA, Hidekazu; UEHARA, Hiroki; YAMANOE, Takeshi; KATO, Shin-ichiro; NAKAMURA, Yosuke
- 2PB-031** Synthesis and Properties of anthradifuran-5,11-diones (Univ. of Toyama) ONOUE, Masaya; HAYASHI, Naoto; YOSHINO, Junro; HIGUCHI, Hiroyuki
- 2PB-032** Synthesis and Structural Properties of 2,2'-Substituted-3,3'-Bisquinolines (Chiba Institute of Technology) SHIMASAKI, Toshiaki; SHIBATA, Mitsuhiro
- 2PB-033** Synthesis of Non-symmetrical 2,2'-Bis(spiroindienone)bridged-3,3'-bithiophene Derivatives (Graduate School of Science, Osaka University) KISHIMURA, Atsushi; KURATA, Hiroyuki; HIRAO, Yasukazu; KUBO, Takashi
- 2PB-034** Development of Cruciform  $\pi$ -Conjugated Systems Based on Bi(thiazolo[2,3-c]thiophene) as a Core Skeleton (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.; WPI-ITbM, Nagoya Univ.) HAYAKAWA, Atsushi; FUKAZAWA, Aiko; KISHI, Daisuke; YAMAGUCHI, Shigehiro
- 2PB-035** Synthesis and Properties of pi-expanded cyclic oligothiophene 7-mer and related compounds (Tokyo Metropolitan University, Kitasato University) SHIMIZU, Hideyuki; KOU, Hakusai; HAQUE, Tahmina; NOMURA, Kotohiro; HASEGAWA, Masashi; IYODA, Masahiko
- 2PB-036** Reversible conformation control of the 1,1'-bis(*p*-dimethylamino-phenyl)ferrocene derivative by the addition of electrophiles. (Grad. Sch. Sci. Eng., Univ. of Toyama) TOYAMA, Takuya; YOSHINO, Junro; HAYASHI, Naoto; HIGUCHI, Hiroyuki
- 2PB-037** An improved synthesis and optical properties of 2,3,8,9-tetrabutylterracene (Univ. of Hyogo) INOUE, Nozomu; KITAMURA, Chitoshi; KAWASE, Takeshi
- 2PB-038** Synthesis and physical properties of dicyanozaacene derivatives containing triisopropylsilylethynyl group (Interdisciplinary Grad. Sch. Sci. and Eng., Tokyo Tech) YANG, Fan; NISHITA, Junichi; YAMASHITA, Yoshiro
- 2PB-039** Cross-coupling Reactions of Bromotetracenequinones and Properties of Their Products (Univ. of Hyogo) NAGAHARA, Masaya; KITAMURA, Chitoshi; KAWASE, Takeshi
- 2PB-040** Novel synthesis and properties of nitrogen-included acene derivatives (Graduate School of Materials Science, Nara Institute of Science and Technology) KOJIMA, Mitsuru; IKEDA, Shinya; YAMADA, Hiroko
- 2PB-041** Synthesis and Structure of Various Anthracene-Acetylene Macrocyclic Oligomers (Okayama Univ. of Science) KAWAKAMI, Takahiro; IWANAGA, Tetsuo; TOYOTA, Shinji
- 2PB-042** Synthesis of pi-conjugation extended BPEA derivatives by double elimination reactions and their spectroscopic properties (Okayama Univ. of Science) KARASHIMA, Sayaka; IWANAGA, Tetsuo; TOYOTA, Shinji
- 2PB-043** Synthesis, spectroscopic and electrochemical properties of new diazabenzoperyleneimide derivatives (Keio Univ.) TOKUO, Kokichi; SAKAI, Hayato; HASOBE, Taku
- 2PB-044** Synthesis and evaluation of new photofunctional molecular architectures composed of coroneneimide and perylene derivatives (Keio Univ.) YOSHIDA, Motoki; IDA, Kouichi; SAKAI, Hayato; HASOBE, Taku
- 2PB-045** Design and Utilization of Photoresponsive Nitrogen-containing Aromatic Compounds [6] Photoisomerization and Interaction with acidof Oligo-*o*-phenylene Having Azo and Basic Units (Faculty of Engineering, Tokyo Univ. of Science) ARAI, Rie; GOTO, Hidetoshi; SUGIMOTO, Hiroshi
- 2PB-046** Synthesis of Highly Convertible Hexacene Precursor (Academia Sinica, Taiwan, and IMCE, Kyushu Univ., Japan.) WATANABE, Motonori; GOTO, Kenta; SHIMYOZU, Teruo; CHOW, Tahsin J.
- 2PB-047** Synthesis and Properties of Cyclic and Acyclic Thiophene-Furan Oligomers (Graduate School of Engineering, Gunma University) FUJII, Tomoko; KATO, Shin-ichiro; NAKAMURA, Yosuke
- 2PB-048** Synthesis and Optical Properties of Dipyrrin Oligomers Linked by a Thiophene Unit (Faculty of Pure and Applied Sciences, University of Tsukuba) SAINO, Sousuke; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 2PB-049** Synthesis and Photovoltaic Properties of Naphthobisthiadiazole-
- triphenylamine-based Polymers (Kurume National College of Technology) KUSAGAKI, Yutaro; SHINOHARA, Yuki; MATSUDA, Takaaki; YASUDA, Takeshi; HAN, Liyuan; ISHI-I, Tsutomu
- 2PB-050** Synthetic Study of Mechanochromic Polymer incorporating with Non-planar Terphenoquinone Derivatives (Graduate School of Science, Osaka University) KODAMA, Takuya; KURATA, Hiroyuki; HIRAO, Yasukazu; KUBO, Takashi
- 2PB-051** Chiroptical Properties and Saccharide-Sensing Behavior of Chromophore-modified Curdlans (Graduated School of Engineering, Osaka Univ.) SASAKI, Mayuko; FUKUHARA, Gaku; MORI, Tadashi; INOUE, Yoshihisa
- 2PB-052** Orientational fluorescent liquid crystalline Semiconductors (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) DONG, Jiuchao; KAWABATA, Kohsuke; GOTO, Hiromasa
- 2PB-053** Solid-state Fluorescence of Silicon-bridged 2-(6-Arylnaphthyl)indoles (Grad. Sch. Tech., Kyoto Inst. Tech.) INAMOTO, Yusuke; YAMATANI, Akinori; SHIMIZU, Masaki
- 2PB-054** Preparation of spontaneous resolved chiral supramolecular organic fluorophore using  $\pi$ -conjugated carboxylic acid and phenylethylamine. (Kinki Univ., The University of Tokyo, Tokyo University of Science, NAIST) TANIGUCHI, Naoya; SHIMOMAKI, Ryutaro; KOBAYASHI, Yuhei; TOKUTOME, Hayato; KURODA, Reiko; HUIJIKI, Michiya; IMAI, Yoshitane
- 2PB-055** Polymorphic property of bisphenanthrol/benzoquinone-CT complex for the crystallization condition (Kinki University; Tokyo University of Science) OOKUMA, Kouhei; AOYAMA, Hiroyori; KOBAYASHI, Yuhei; KURODA, Reiko; IMAI, Yoshitane
- 2PB-056** Development of a novel method to tune the solid-state luminescence based on matrices effects (Institute of Industrial Science, Univ. of Tokyo) FURUKAWA, Shintaro; SHONO, Hideaki; MUTAI, Toshiaki; ARAKI, Koji
- 2PB-057** ON/OFF switching of organic solid-state ESIFT luminescence of N-substituted benzimidazole (Institute of Industrial Science, University of Tokyo) SHIDA, Toshihide; MUTAI, Toshiaki; ARAKI, Koji
- 2PB-058** Electroluminescence Properties of Ferulic acid derivatives (Industrial Technology Center of Wakayama Prefecture) MIYAKE, Yasuhiro; MIKURA, Miwako; MORI, Megumi; OSAKI, Shusuke; MORI, Takeshi; SAOMOTO, Hitoshi; MACHITANI, Koji; INOUE, Kaname; KOSHITANI, Takeshi; AOKI, Yasunori
- 2PB-059** Synthesis and Optical Properties of Benzoic Acid Derivatives Bearing Electron-accepting Groups at the Meta Position (Graduate School of Engineering, Chiba University; TOYO INK SC HOLDINGS, CO., LTD.) MATSUMOTO, Shoji; MOTEGI, Jun; AKAZOME, Motohiro; NISHIDA, Kazuhumi; SUDA, Yasumasa
- 2PB-060** Syntheses of aminobenzopyranoxanthene dyes with long-alkyl chains and their fluorescence emission characteristics in the solid states. (Okayama University Pharmaceutical department, Japan Imaging Research Laboratory, RIKEN CIMS, Kobe) TANIOKA, Masaru; KAMINO, Sinnichiro; ENOMOTO, Shuichi
- 2PB-061** Photoluminescence Properties of Benzophosphole Oxides with an Intramolecular Hydrogen Bond (RCMS, Nagoya Univ.; WPI-ITbM, Nagoya Univ.) OSAKI, Hiroshi; FUKAZAWA, Aiko; YAMAGUCHI, Shigehiro
- 2PB-062** Photophysical Properties of *N*-azulen-2-yl-naphthalimides (Gunma National College of Technology) KUBO, Shosei; NAKAJIMA, Satoshi
- 2PB-063** Synthesis and properties of cyclic BODIPY confused boxes (Department of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University) HIROSAWA, Ryuji; OMAGARI, Shigehiro; FURUTA, Hiroyuki
- 2PB-064** Synthesis and properties of naphthalimide dyes with thienylene spacer. (CST, Nihon University) INARI, Takatoshi; OTSUKI, Joe
- 2PB-065** Aggregation-induced Emission Found in Donor-Acceptor Dyes Bearing PEG chains (Kurume National College of Technology) KITAHARA, Ikumi; ISHI-I, Tsutomu
- 2PB-066** Optical property of dye-leuco mixed molecular assembly of triphenylmethane complexes (IIS, Univ. Tokyo) TAKEDA, Saori; HIRAYAMA, Koichiro; NAKAJIMA, Yuta; HOUJOU, Hirohiko
- 2PB-067** Aggregation-induced Emission Found in Naphthobisthiadiazole-triphenylamines (Kurume National College of Technology) HASHIMOTO, Ryuichiro; OGAWA, Michiaki; ISHI-I, Tsutomu
- 2PB-068** Synthesis and properties of 1*H*-cyclohepta[2,1-*b*:3,4-*b'*]diindole. (Shinshu University; University of Toyama) ODA, Mitsunori; KUMAI, Yoshimitsu; SUGENO, Yuka; MIYATAKE, Ryuta
- 2PB-069** Synthesis and Photophysical Properties of Naphthalimide Bearing 6-(*N,N*-Dimethylamino)pyridinyl Group (Gunma National College of Technology) MOTEGI, Yuta; NAKAJIMA, Satoshi
- 2PB-070** Optical Properties and E,Z-Photoisomerization of Trifluoromethylthiazole-Substituted Stilbenes (Seikei University) TANAKA, Kiyoshi; HAMASAKA, Natsumi; IWATA, Satoru
- 2PB-071** Three-dimensional tracking of single guest molecules in polymer thin films (Graduate School of Engineering Science and Center for Quantum Materials Science under Extreme Conditions, Osaka University) TAGA, Yuhei; ITO, Shoji; TAKEI, Satoshi; MIYASAKA, Hiroshi
- 2PB-072** Synthesis and Evaluation of Optically and Electronically Functionalized Coronene and Benzo[*ghi*]perylene Derivatives (Keio Univ.; Waseda Univ.; IMRAM, Touhoku Univ.) HIRAYAMA, Sunao; SAKAI, Hayato; TANAKA, Minako; IMAKAWA, Masaki; TAKENOBU, Taishi; ARAKI,

- Yasuyuki; WADA, Takehiko; HASOBE, Taku
- 2PB-073** Synthesis and Properties of Organic Dyes Containing Pyrazine for Application to Dye-sensitized Solar Cells (Tokyo Institute of Technology) TERADA, Ayaka; TAKAHASHI, Takumi; NISHIDA, Jun-ichi; YAMASHITA, Yoshiro
- 2PB-074** Synthesis of new DPP derivatives and their n-type semiconductors for application to organic thin-film solar cells (Tokyo Institute of Technology) ITO, Shinpei; NISHIDA, Junichi; YAMASHITA, Yoshiro
- 2PB-075** Theoretical Prediction of Crystal Structures for Thienoacene-Based Organic Semiconductor Molecules (National Institute of Advanced Industrial Science and Technology) OBATA, Shigeaki; MIURA, Toshiaki; SHIMOI, Yukihiko
- 2PB-076** Characterization of the organic field-effect transistors based on Pcene single crystal (Tokai University, Ushio Chemix Co.) ARAKAWA, Teppi; OKAMOTO, Kazuo; KUNUGI, Yoshihito
- 2PB-077** Organic thin-film transistors based on 12DNTT derivatives (Tokai Univ. Ushio Chemix Co.) TAKAHASHI, Yoshiyuki; MAEDA, Hidetoshi; OKAMOTO, Kazuo; KUNUGI, Yoshihito
- 2PB-078** Structure and physical properties of a mixed valence salt of trioxotriangulene derivative (1 Osaka University; 2 JST-CREST) YAMADA, Chiaki; MURATA, Tsuyoshi; MORITA, Yasushi
- 2PB-079** A Unique Orbital Interaction Appearing in the Silicon-bridged Tetramethyleneethane Biradical (Grad. Sch. of Eng., Osaka Pref. Univ.; RIMED, Osaka Pref. Univ.) SAKAKI, Shotaro; KANO, Yusuke; OHTA, Eisuke; MIZUNO, Kazuhiko; IKEDA, Hiroshi
- 2PB-080** One-electron Sigma Bond Operating in 1,2-Diarylethane Type Radical Cation (Sch. of Eng., Osaka Pref. Univ.; Grad. Sch. of Eng., Osaka Pref. Univ.; RIMED, Osaka Pref. Univ.) KURAMOTO, Yutaro; ASADA, Naoya; OHTA, Eisuke; MIZUNO, Kazuhiko; IKEDA, Hiroshi
- 2PB-081<sup>#</sup>** Synthetic Study of Stable Fluorenyl Radical Substituted with Anthracene (Graduate School of Science, Osaka University) TIAN, Yi; KURATA, Hiroyuki; HIRAO, Yasukazu; KUBO, Takashi
- 2PB-082** Design and synthesis of isotope-labeled terphenyl derivatives for implementing spin amplification and molecular nuclear-spin qubits (Graduate School of Science, Osaka Univ.; Graduate School of Engineering Science, Osaka Univ.; Graduate School of Science, Osaka City Univ.) NISHIDA, Shinsuke; TATEISHI, Kenichiro; NEGORO, Makoto; KAGAWA, Akinori; TAKUI, Takeji; KITAGAWA, Masahiro; MORITA, Yasushi
- 2PB-083** Synthesis and Physical Properties of Organic Nitroxide Biradical Compounds with a Cyclohexane Structure (Kyoto Univ.) TAKAOKA, Shohei; SUZUKI, Katsuaki; MAZHUKIN, Dmitry; GRIGOR'EV, Igor; TAMURA, Rui
- 2PB-084** Synthesis and Properties of All-Organic Nitroxide Radical Compounds Containing a Bipyridine Unit (Kyoto Univ.) SUZUKI, Katsuaki; SHIMONO, Satoshi; UCHIDA, Yoshiaki; TAMURA, Rui
- 2PB-085<sup>#</sup>** Synthesis of a Singlet Biradical for Generation of Two Electrons per Photon (Graduate School of Science, Osaka University) ELISHA, Tiu; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KURATA, Hiroyuki; KUBO, Takashi
- 2PB-086** Synthesis and properties of methoxy substituted acridine-based radical (Faculty of science and technology, Keio Univ.) TADA, Reiki; WATANABE, Taku; SUZUKI, Ryota; MAEDA, Chihiro; YOSHIOKA, Naoki
- 2PB-087** Syntheses and properties of radical substituted carboranes on the boron atoms. (Graduate school of integrated basic sciences, Nihon Univ.) UCHIDA, Takuto; IWAHORI, Fumiya
- 2PB-088** Synthesis of a Novel Biradical: Toward the Construction of PCET Network (Graduate School of Science, Osaka University) ISOGAI, Kazuki; HIRAO, Yasukazu; MATSUMOTO, Kouzou; KURATA, Hiroyuki; KUBO, Takashi
- 2PB-089** Crystal Structures and Magnetic Properties of *o*-Methyl Phenyl Nitronyl Nitroxide and its Transition Metal Complexes (Department of Chemistry, Graduate School of Material Science, Josai University) KOMIYA, Ryosuke; AKITA, Motoko; KOBAYASHI, Keiji
- 2PB-090** Temperature Dependence of Crystal Structure of Indole Nitronyl Nitroxide Derivatives (Faculty of science and technology, Keio Univ.) EMURA, Yoichiro; SUGAWARA, Hiromasa; MAEDA, Chihiro; YOSHIOKA, Naoki
- 2PB-091** Synthetic Study of Trioxotriangulene Stable Neutral Radicals with Long Alkyl Chains (Osaka University; Osaka City University) KAWAKAMI, Yuki; NISHIDA, Shinsuke; UEDA, Akira; MURAYAMA, Hirotaka; MURATA, Tsuyoshi; KANZAKI, Yuki; SATO, Kazunobu; TAKUI, Takeji; MORITA, Yasushi
- 2PB-092** Crystal Structure and Electronic-Spin Structure of 1,3-Phenylene Bis (trioxotriangulene) Radical Anion Salt (Osaka University; JST-CREST) MIYAI, Hiromi; ASAKURA, Noriaki; MURATA, Tsuyoshi; UEDA, Akira; MORITA, Yasushi
- 2PB-093** Enthalpy-entropy compensation for tetrachloro biphenyl isomers by a use of isothermal gas chromatography. (Univ. of Shizuoka; Graduate Program in Environmental Health Sciences.) MAKINO, Masakazu
- 2PB-094** Synthesis and properties of redox-responsive molecular tweezers containing a 6,13-bis(1,3-dithiol-2-ylidene)-6,13-dihydroanthracene unit (Shinshu Univ.) MARUYAMA, Hiroko; OHTA, Akira
- 2PB-095** Molecular Recognition of Synthetic Zinc Chlorophyll Derivatives Possessing an Amino Group with Histidine (Ritsumeikan Univ.) TAMIAMI, Hitoshi; NAGAI, Tomoaki; MACHIDA, Shinnosuke
- 2PB-096** Chirality Sensing of amino acid by TPEN-Nd(III) Complex (Graduate School of Science, Osaka City University) MIYAKE, Hiroyuki; KUNIYA, Takuro; TSUKUBE, Hiroshi
- 2PB-097** Carboxylic Acid Recognition of Et-substituted Diamidine Having Anthracene Unit. (Kyoto Institute of Technology) KUSUKAWA, Takahiro; INOUE, Kouta; HARADA, Toshiro
- 2PB-098** Phosphonic Acid Recognition of a Diamidine having Anthracene Unit. (Kyoto Institute of Technology) KUSUKAWA, Takahiro; NAGANO, Hitoshi; HARADA, Toshiro
- 2PB-099** Effects of Side Chains on Inclusion Ability of a Cyclic Tripeptide Consisted of 2-(3-Aminophenoxy) alkanolic Acid (Graduate School of Engineering, Chiba University) AKAZOME, Motohiro; MATSUBARA, Shunsuke; TAKAGI, Koji; MATSUMOTO, Shoji
- 2PB-100** Sequence Recognition of Oligopeptides with Alternating L- and D-Amino Acids by Self-Assembled Bowl-Shaped Hosts (Grad. School of Engineering, The Univ. of Tokyo; CREST) SUGINO, Sho; SAWADA, Tomohisa; FUJITA, Makoto
- 2PB-101** Synthesis of Poly(3-thiopheneboronic acid) Having Fluorescent Sensing Abilities for Sugars (AIST) ISHIKAWA, Kazuyuki; KAMETA, Naohiro; AOYAGI, Masaru; MASUDA, Mitsutoshi; ASAKAWA, Masumi; SHIMIZU, Toshiaki
- 2PB-102** Study on New Synthesis of Polyrotaxane Consisting of Polyethylene Glycol and Cyclodextrin (Univ. of Fukui; Faculty of Engineering Department of Material Science and Engineering.) SUZUKI, Keisuke; TANAKA, Hiroyuki; ITO, Takashi; KANNDA, Mina; YUGUCHI, Takuto; KIM, Jaeho; KAWASAKI, Tsuneomi; TOKUNAGA, Yuji; SAKAGUCHI, Toshikazu
- 2PB-103** Synthesis of Lithium-ion encapsulated fullerene [Li+@C60] and gamma-cyclodextrin complex (Sendai National College of Technology) ENDO, Tomoaki; KOMATSU, Ken-ichiro; KAWACHI, Kazuhiko; KASAMA, Yasuhiko; KWON, Eunsang
- 2PB-104** Synthesis of and property of calix[4]arene derivative having recognition moiety form-alkane (Chuo Univ. Faculty of Science and Engineering) SHIMADA, Kousuke; YAMASHITA, Makoto
- 2PB-105<sup>#</sup>** Synthesis of fluorescent chemosensors based on hexahomotrioxacalix [3]-arenes (Graduate School of Science and Engineering, Saga University) JIN, Cheng-cheng; JIANG, Xue-kai; YAMATO, Takehiko
- 2PB-106** The existence of isoequilibrium point (solvent polarity) in the inclusion complexation of ionic liquids with p-sulfonatocalix[6]arene (Graduate School of Natural Science and Technology, Okayama University) HONDA, Yusaku; SUEISHI, Yoshimi
- 2PB-107** Synthesis and Characterization of Lithium Ion Selective Calix[4]arenes (Kyushu Institute of Technology) INUZUKA, Shino; TOYOSE, Yasushi; TSUGE, Akihiko; ARAKI, Koji
- 2PB-108** Supramolecular Assembly Formations of Halogen-Modified Thiacalix[4]arene Derivatives (Akita Univ.) YAMADA, Manabu; KANAZAWA, Ryo; KONDO, Yoshihiko; HAMADA, Fumio
- 2PB-109** Synthesis of Calix[4]arene-bis(crown-8) and Its Molecular Recognition (Faculty of Engineering Department of Materials Science and Engineering Univ. Fukui) HAYAKAWA, Kentaroh; TOKUNAGA, Yuji; KAWASAKI, Tsuneomi; MIYASHITA, Junichi
- 2PB-110** Synthesis of azacrown ether derivatives having pyreneacetamido or peryleneacetamido moieties and detection of metal ions (Dept. of Chem.; Tokyo Med. Univ.) NISHIMURA, Yukihiko; HOSONO, Yasuhiro; ARAI, Sadao
- 2PB-111** Dual mode ion sensors for Ag<sup>+</sup> and Hg<sup>2+</sup> ions: Effects on chromophors and binding site (Department of Chemistry, Faculty of Science, Toho University & Reserch Center for Materials with Integrated Properties, Toho University) IKEDA, Mari; KUWAHARA, Shunsuke; HABATA, Yoichi
- 2PB-112** Solvent effects on chiral induction by nano trefoil (Department of Chemistry, Faculty of Science, Toho University & Research Center for Materials with Integrated) YAMAZAKI, Tomoya; KUWAHARA, Shunsuke; HABATA, Yoichi
- 2PB-113** Fluorescence properties in solid state of silver complexes with armed-cyclens having chromophores: Effects of structures of the side-arms (Department of Chemistry, Faculty of Science & Research Center for Materials with Integrated Properties, Toho University) TANIGUCHI, Aya; IKEDA, Mari; KUWAHARA, Shunsuke; HABATA, Yoichi
- 2PB-114** Construction of Discrete Nanotube consisted of Stacked Macrocyclic Metal Complex with bis( $\beta$ -diketonate)-carbazole ligands (Nagoya Univ., Research Center for Materials Science; Nagoya Univ., Graduate School of Science, Department of Chemistry; CREST, JST) NISHINO, Toshiro; YAMADA, Yasuyuki; TANAKA, Kentaro
- 2PB-115** Endohedral functionalization of a hollow porphyrin prism complex (School of Engineering, The Univ. of Tokyo, CREST) SATO, Hiroshi; ARAI, Tatsuhiko; INOKUMA, Yasuhide; FUJITA, Makoto
- 2PB-116** Azobenzene Isomerization Controlled by Dynamic Formation of Macrocyclic Complexes (Faculty of Pure and Applied Sciences, University of Tsukuba) YAMAKAWA, Koji; YAMAMURA, Masaki; NABESHIMA, Tatsuya
- 2PB-117** Conformational analysis of quaterphenyl-amine conjugates (Faculty of Science, Toho University & Reserch Center for Materials with Integrated Properties, Toho University) NAKAMURA, Masaya;

- YAMAGUCHI, Akira; HABATA, Yoichi; KUWAHARA, Shunsuke
- 2PB-118** Chirality Transcription of Ammonium Salts by Forming Pseudo[2] rotaxane (Department of Chemistry, Faculty of Science & Research Center for Materials with Integrated properties, Toho University) TSUCHIYA, Syo; CHAMURA, Rie; IKEDA, Mari; KUWAHARA, Shunsuke; HABATA, Yoichi
- 2PB-119** Construction of Novel Cavity-shaped Molecules by Taking Advantage of Rotaxane Frameworks (Tokyo Institute of Technology) KOBAYASHI, Teruki; DOMOTO, Yuya; SASE, Shohei; GOTO, Kei
- 2PB-120** Electronic communication between heterodimeric porphyrin and phthalocyanine in porphyrin/phthalocyanine four-fold rotaxane (Nagoya Univ., Graduate School of Science, Department of Chemistry; Nagoya Univ., Research Center for Materials Science; Kyoto Univ., Graduate School of Human and Environmental studies; IMS; Kyoto Univ., Institute for the Promotion of Excellence in Higher Education; CREST, JST) IIDA, Hayato; YAMADA, Yasuyuki; OKAMOTO, Mitsuhiro; FURUKAWA, Ko; KATO, Tatsuhisa; TANAKA, Kentaro
- 2PB-121** Planar Chiral Rotaxanes Based on Pillararenes as Wheels (Graduate School of Natural Science and Technology, Kanazawa University) YAMAFUJI, Daiki; AOKI, Takamichi; OGOSHI, Tomoki; YAMAGISHI, Tada-aki
- 2PB-122** Facile and High-yield Synthesis of [2]Rotaxanes Based on Liquid Pillar[5]arene as a Medium (Graduate School of Natural Science and Technology, Kanazawa University) AOKI, Takamichi; OGOSHI, Tomoki; YAMAGISHI, Tada-aki
- 2PB-123** Supramolecular Polymers with Alternating Pillar[5]arene and Pillar[6]arene Units (Graduate School of Natural Science and Technology, Kanazawa University) KAYAMA, Hitoshi; YAMAFUJI, Daiki; AOKI, Takamichi; OGOSHI, Tomoki; YAMAGISHI, Tada-aki
- 2PB-124** Synthesis and Association Behavior of Acetylene Linked Benzimidazolone Dimers (Nagoya Institute of Technology) TAKAGI, Yuya; OHKITA, Masakazu
- 2PB-125** Self-assembly of pyridilboronic acid triggered by addition of haloalkanes (Suzuka National College of Technology) KOSAKA, Kyohei; MIZUNO, Yuusuke; TAKAKURA, Katsuto
- 2PB-126** Structure and Properties Analysis of Extended Hemicyptophanes. (Graduate School, Osaka Prefecture Univ.) DANNO, Tomofumi; MAKITA, Yoshimasa; FUJIWARA, Shin-ichi; OGAWA, Akiya
- 2PB-127** Photoreversible Switching of the Lower Critical Solution Temperature in a Photoresponsive Host-Guest System of Pillar[6]arene with Triethylene Oxide Groups and an Azobenzene Derivative (Graduate School of Natural Science and Technology, Kanazawa University) KIDA, Kanako; OGOSHI, Tomoki; YAMAGISHI, Tada-aki
- 2PB-128** Formation of Supramolecular Structures Based on Mono-functionalized Pillar[5]arenes (Graduate School of Natural Science and Technology, Kanazawa University) DEMACHI, Kazuki; KITAJIMA, Keisuke; OGOSHI, Tomoki; YAMAGISHI, Tada-aki
- 2PB-129** High Efficient and Substrate-Selective Phase-Transfer Catalyst Using an Amphiphilic Pillar[5]arene (Graduate School of Natural Science and Technology, Kanazawa University) UESHIMA, Naosuke; OGOSHI, Tomoki; YAMAGISHI, Tada-aki
- 2PB-130** Synthetic studies of macrocyclic compounds containing nicotinic amide (IMCE, Kyushu Univ.; Department of Chemistry, Graduate School of Sciences, Kyushu Univ.) NABEKURA, Yuki; NAKAYAMA, Yuki; GOTO, Kenta; SHINMYOZU, Teruo
- 2PB-131** Preparation of Spiroborate Nanocycles (Konan Univ.; Tokushima Bunri Univ.) NOGAMINE, Ayumi; DANJO, Hiroshi; KAWAHATA, Masatoshi; OHARA, Kazuaki; YAMAGUCHI, Kentaro; MIYAZAWA, Toshifumi
- 2PB-132** Synthesis and Helical Self-Organization of Pyridine-Oxadiazole Alternating Oligomers (Nagoya Institute of Technology) KODAMA, Naoki; SUZUKI, Takanori; OHKITA, Masakazu
- 2PB-133** Preparation of Peapod Nanotubes by the Use of Spiroborate Molecular Connecting Modules (Konan Univ. Tokushima Bunri Univ.) MURAKI, Yusuke; MORII, Akio; DANJO, Hiroshi; KAWAHATA, Masatoshi; YAMAGUCHI, Kentaro; MIYAZAWA, Toshifumi
- 2PB-134** Preparation of Gold Nanoparticles with Cyclic Spiroborates as Protective Agents (Konan Univ.; FIRST, Konan Univ.) KISHIMOTO, Yusuke; DANJO, Hiroshi; TSURUOKA, Takaaki; AKAMATSU, Kensuke; MIYAZAWA, Toshifumi
- 2PB-135** Applications of Carbon Nanomaterials to Enzymatic Biofuel-Cell Anodes (Fac. of Eng., Tokyo Univ. of Sci.; Graduate School of Chem. Sci. and Tech., Tokyo Univ. of Sci.; Tokyo Natl. Col. of Tech.) TOKUDA, Koichiro; SUGANUMA, Takuya; MORITA, Naoki; HIGUCHI, Seiya; YAMAGIWA, Kiyofumi; SHIROISHI, Hidenobu; AYATO, Yusuke; KUWANO, Jun
- 2PB-136** Construction of Double Emulsion-type New Nanoparticles for Molecular Imaging (National Institute of Radiological Sciences (NIRS) Molecular Imaging Center) ARAI, Kazutaka; JO, Jun-ichiro; AOKI, Ichio; SAGA, Tsunee
- 2PB-137** Rotary Motion of Triptycene Molecular Gears Based on Lantern-Type Dinuclear Metal Carboxylate Complexes (The Univ. of Tokyo) SANADA, Kazuma; UBE, Hitoshi; SHIONOYA, Mitsuhiro
- 2PB-138** Synthesis and coordination behavior of bridging ligands possessing flexible coordination sites (Ochanomizu Univ.) KAKEHI, Erika; MIYAKE, Ryouyuke
- 2PB-139** Development of Bridgehead-substituted Heterotriptycene Metal-complex directed toward Molecular Machine (The Univ. of Tokyo) YASUDA, Yoshihiro; UBE, Hitoshi; SHIONOYA, Mitsuhiro
- 2PB-140** Synthesis of 2,8-dibenzyl-1,9-di(4-methoxyphenyl)dipyrromethene and its complex formation with BF<sub>3</sub> and metal ions (Shinshu University; University of Toyama) ODA, Mitsunori; FUJIWARA, Yurie; MIYATAKE, Ryuta
- 2PB-141** Studies on the Synthesis of Heterohelicene- and Dehydroheterohelicene-Derived Chiral  $\Pi$ -arene Ruthenium Complexes (Kumamoto Univ.; Kyushu Univ.) IRIE, Ryo; MATSUMOTO, Ken; URAKAWA, Suguru; IMAHORI, Tatsushi; IGAWA, Kazunobu; TOMOOKA, Katsuhiko
- 2PB-142** Synthesis and Properties of Schiff Base Nitridochromium(V) complexes with Alkoxy Substituent. (Faculty of science and technology, Keio Univ.) TAKAHASHI, Yusuke; MAEDA, Chihiro; YOSHIOKA, Naoki
- 2PB-143** Creation of a Redox-switchable Molecular Solomom Link (Kyoto Univ. iCeMS; Northwestern Univ.; Wuhan Univ.) KIKUCHI, Takashi; FRASCONI, Marco; WANG, Cheng; CAO, Dennis; STODDART, J. Fraser
- 2PB-144** Preparation of Indenone Derivatives by Reaction of N,N-Dialkyl 2-(Phenylethynyl)benzamide with Lithium Amides (Univ. of Hyogo) IRIE, Hironobu; KITAMURA, Chitoshi; KAWASE, Takeshi
- 2PB-145** Effect of substituent group at  $\alpha$ -position and leaving group of 2-nitrobenzyl ester derivatives on photodegradation rate (Kanagawa Univ. Faculty of Science) SAITO, Yusuke; OTA, Takaaki; CHIKARAI, Noriko; YAMAGUCHI, Kazuo
- 2PB-146** TCNE addition to phenylacetylene derivatives carrying a hydroxyl group (Wakayama Univ.) SAKAMINE, Ryota; OKUNO, Tsunehisa
- 2PB-147** The Preparation and Characterization of Coumarin Derivatives with high light stability (Industrial Technology Center of Wakayama Prefecture) MORI, Megumi; MIYAKE, Yasuhiro; KIMURA, Miwako; OSAKI, Shusuke; ITOH, Osamu
- 2PB-148** Self-organization of perylene bisimide dimers tethered by cyclohexylene (Grad. Sch. Eng., Chiba Univ.) YAGAI, Shiki; LIN, Xu; KURATA, Hiroki; KARATSU, Takashi; KITAMURA, Akihiko
- 2PB-149** Crystal structure of N,N'-Bis(5-(alkyloxy)tropon-2-yl)piperazine (Hokkai-Gakuen Univ.; Kyushu Univ.) KUBO, Kanji; YAMAMOTO, Emi; MATSUMOTO, Taisuke; UJIE, Seiji; MORI, Akira
- 2PB-150** Formation of Organogels by Non-hydrogen-bonding Perylene Bisimide Assemblies (Grad. Sch. Eng., Chiba Univ.) KURATA, Hiroki; LIN, Xu; KARATSU, Takashi; KITAMURA, Akihiko; YAGAI, Shiki
- 2PB-151** Galation behavior of the  $\beta$ -diketone ligand as a basic skeleton. (Department of Applied Chemistry, Kyushu Institute of Technology) KUMAMOTO, Kouta; MORIGUCHI, Tetsuji; ARAKI, Koji; TSUGE, Akihiko
- 2PB-152** Gelation of the Eu(III) complex prepared from the diketone ligand. (Department of Applied Chemistry, Kyushu Institute of Technology) IKEDA, Shu; MORIGUCHI, Tetsuji; ARAKI, Koji; TSUGE, Akihiko
- 2PB-153** Synthesis and Gelation Behavior of Cystine Derivatives (Yamagata Univ.) MURAKAWA, Maiko; WAKATSUKI, Akira; ITO, Kazuaki; ENDO, Masatoshi; SASAKI, Takashi
- 2PB-154** Synthesis and Gelation Behavior of Pyrene derivatives (Yamagata Univ.) INOUE, Takanori; ITO, Kazuaki

### Physical Organic Chemistry -Reaction Mechanism-

- 2PB-155** Photoinduced electron transfer sensitized by iridium complexes having pyrene moieties (The Univ. of Tokyo) ABOSHI, Ryo; TAKIZAWA, Shin-ya; MURATA, Shigeru
- 2PB-156** New reaction mechanism of disilacyclobutene with organic molecules (Tokyo Tech Sci & Eng) OTSU, Shun; HAYASHI, Yoshihiro; NATSUMEDA, Takahumi; KAWAUCHI, Susumu
- 2PB-157** A theoretical study of [2+2] cycloadditions of cycloalkynes with ethylenes (Tokyo Tech) NATSUMEDA, Takafumi; HAYASHI, Yoshihiro; OTSU, Shun; KAWAUCHI, Susumu
- 2PB-158** Diastereoselectivity in H/D exchange of  $\beta$ -substituted esters (Kochi Univ.) SASAKI, Katsuyuki; KANENO, Daisuke
- 2PB-159** Synthesis and Catalytic Properties of Porous Metal Complexes Functionalized with Radical Moieties (JST-ERATO Kitagawa Project; Kyoto University) LI, Liangchun; MATSUDA, Ryohtarō; KITAGAWA, Susumu
- 2PB-160** ESR study on temperature dependence of radical compounds in human's hair (Graduate school of natural science and technology Okayama Univ.) TAKEMOTO, Tsubasa; SUEISHI, Yoshimi
- 2PB-161** Asymmetric dioxysylation reaction by chiral hypervalent Iodine reagent (Kochi Univ.) NAGANO, Tatsuya; KANENO, Daisuke

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### Physical Chemistry -Structure-

- 2PC-001** Effect of H<sub>2</sub>O hydrogen bond existence to the hydrophobic dimer formation of 1-C<sub>n</sub>H<sub>2n+1</sub>OH (n=2-6) alcohol (Waseda Junior&Senior Highschool) SAITOH, Toshikazu
- 2PC-002** Development the flow system with an artificial oxygen lung to

- measure time-resolved IR spectra on the oxygen reduction reaction of cytochrome c oxidase. (Inst. Picobiology, Hyogo Univ.) NAKASHIMA, Satoru; NISHIGUCHI, Tatsuhito; KUBO, Minoru; MOCHIZUKI, Masao; ITOH-SHINZAWA, Kyoko; YOSHIKAWA, Shinya; OGURA, Takashi
- 2PC-003** Studies on the lowest-energy excited state of anethenes by two-photon absorption measurements (AIST; Kwansai Gakuin Univ.; Osaka Univ.) TOKUNAGA, Kazuya; KONISHI, Akihito; KAMADA, Kenji; OHTA, Koji; ITO, Soichi; HUKUDA, Koutaro; KISHI, Ryohei; NAKANO, Masayoshi; KUBO, Takashi
- 2PC-004** Observation non-equilibrium heating state of substances by in-situ microwave irradiation NMR (Yokohama National Univ.; Graduate school of Engineering) TASEI, Yugo; FUJITO, Teruaki; KAWAMURA, Izuru; NAITO, Akira
- 2PC-005** Trial sensitivity improvement of time-resolved ESR apparatus for molecular device measurement (Osaka City University) MATSUMOTO, Takafumi; TASHIRO, Atsushi; TEKI, Yoshio
- 2PC-006** Dynamics of artificial clathrate hydrate stabilized with molecular nanoporous crystal (Tokyo Univ. of Science; Faculty of Science) SUZUKI, You; NAKAMURA, Eriko; SUGIO, Yurie; SUKA, Ryota; TADOKORO, Makoto; KUMAGAI, Yoshihide; MIZUNO, Motohiro
- 2PC-007** Construction and ESR study of [CLPOT-(nitronyl nitroxide radical)] inclusion compounds (Dep. of Chemistry, Col. of Humanities and Sciences, Nihon Univ.) KOBAYASHI, Hirokazu; FUJIMORI, Etsuko; MORINAGA, Yuka; ASAJI, Tetsuo
- 2PC-008** Phase transition and crystal structures in bis(1,3-diazinium)chloranilate (Okayama Univ.) GOTOH, Kazuma; ISHIDA, Hiroyuki
- 2PC-009** Structure of sorbate molecules with OH group on silicalite-1 zeolite (National Defense Academy) KAMIYA, Natsumi; OSHIRO, Takanori; TAN, Sachio; KOIKE, Takashi; MATSUO, Hiroto; NISHI, Koji; YOKOMORI, Yoshinobu
- 2PC-010** Structure and physical properties of salts from p-toluenesulfonate / fluoroanilinium derivative salts. (RIES, Hokkaido Univ.) ENDO, Daigoro; KUBO, Kazuya; NORO, Shin-ichiro; NAKAMURA, Takayoshi
- 2PC-011** Structures and Electron Density Distribution in Triphosphazene radialene Polymorphs (RIKEN-Advanced Science Institute) MIYOSHI, Tatsuki; HASHIZUME, Daisuke; MIYAKE, Hideaki; SASAMORI, Takahiro; TOKITOH, Norihiro
- 2PC-012** Crystal structure and conducting properties of charge-transfer complex based on DHDAP (Faculty of Systems Engineering, Wakayama University) YAMASHINA, Yohei; YAMAKADO, Hideo
- 2PC-013** Synthesis and structures of the conductive partially oxidized salts containing platinum phthalocyanine and nickel phthalocyanine (Wakayama Univ.) NAKANISHI, Kenta; YAMAKADO, Hideo
- 2PC-014** Synthesis and Structures of Alkali BHETCNQ Salts (2) (Wakayama Univ.) OSADA, Yuki; YAMAKADO, Hideo
- 2PC-015** Fractal pattern of Au thin film on SiO<sub>2</sub>/Si(100) observed by photoelectron emission microscopy (Univ. of Tokyo) YAMAGUCHI, Tetsuhiro; MOTAI, Yuya; MIHARA, Shimon; AOKI, Masaru; SHUDO, Kenichi; KOBAYASHI, Hikaru; MASUDA, Shigeru
- 2PC-016** Valence electronic states of CO adsorbed on Au clusters/graphite (Univ. of Tokyo) SANO, Hikari; SATO, Hirofumi; AOKI, Masaru; SUGIOKA, Yu; SHUDO, Ken-ichi; MASUDA, Shigeru
- 2PC-017** Verification of self-preservation phenomena for natural gas clathrate hydrate (AIST) TAKEYA, Satoshi; MIMACHI, Hiroko; TAKAHASHI, Masahiro; ITO, Masato; SANO, Kenichi; YONEYAMA, Akio; UEDA, Kazuhiro; HYODO, Kazuyuki; TAKEDA, Toru; YAMAWAKI, Hiroshi; GOTOH, Yoshito
- 2PC-018** The Proton Transfer between Alkylpyridinimines and Alcohol, and its Substituent Effects (TOKYO DENKI UNIVERSITY) IWASAKI, Naoya; SUZUKI, Takayuki
- ### Physical Chemistry -Properties-
- 2PC-019** Enthalpies of chiral fenchone in cyclohexane solutions (Dept. Chem. Kinki Univ.) KIMURA, Takayoshi; TOGASHI, Hitoshi; KAMIYAMA, Tadashi; FUJISAWA, Masao
- 2PC-020** <sup>2</sup>H NMR study of dynamics of water molecules in NaCl aqueous solution in SBA-16 (Kanazawa University) MIYATOU, Tatsuya; SAZANAMI, Kouichi; OHASHI, Ryutaro; IDA, Tomonori; MIZUNO, Motohiro; KITAKA, Shigeharu
- 2PC-021** Study on the liquid-solid equilibria for solution systems containing two-component mixed monosaccharides (Kagawa Univ.) FUKADA, Kazuhiro; FUJIWARA, Kimi
- 2PC-022** Structural fluctuations of carbon dioxide/imidazolium-based ionic liquid systems and its dependence of alkyl-chain length (Fac. Sci., Chiba Univ.) OKUMURA, Shuhei; MORITA, Takeshi; NISHIKAWA, Keiko
- 2PC-023** Elucidation of the thermal behavior and the structure of an alicyclic-based ionic liquid, 1-butyl-1-methylpyrrolidinium hexafluorophosphate ([P14]PF<sub>6</sub>). (Chiba University) SHIMIZU, Yuichi; FUJII, Kozo; NISHIKAWA, Keiko
- 2PC-024** Composition dependence of the glass transition temperatures for amino alcohol aqueous solutions (MSL, Tokyo Tech) SHEN, Yunting; NAGOE, Atsushi; FUJIMORI, Yuki; KAWAJI, Hitoshi; OGUNI, Masaharu
- 2PC-025** Pressure Effect on the Densities and Viscosities of Amides-Deuterium Oxide Mixtures (Doshisha Univ.) KATSUURA, Yuki; UENO, Masakatu
- 2PC-026** Relation of structure and dynamics of ionic liquid (C<sub>n</sub>mim) BF<sub>4</sub>(n=4,6) (Fac. Sci., Fukuoka Univ.) KUROKI, Takuya; WATANABE, Keisuke; NEGITA, Keishi
- 2PC-027** Structure of hydration water of β-lactoglobulin at low temperatures (Fukuoka university) YOSHIDA, Koji; YOSHIDA, Eri; ITO, Kanae; YAMAGUCHI, Toshio
- 2PC-028** Relationship between the HD Exchange Reaction and Conformational Equilibrium of Imidazolium cation in Imidazolium-based Ionic Liquid-Water Mixtures (Nat. Def. Acad.) YOSHIMURA, Yukihiko; HATANO, Naohiro; TAKEKIYO, Takahiro; ABE, Hiroshi
- 2PC-029** Water structure in the hydrogel materials (Meiji Univ.) KAJIWARA, Yutarou; SEKINE, Yurina; FUKAZAWA, Tomoko
- 2PC-030** Quantum chemical studies of structures of typical banana-shaped molecules (Tokyo Tech) HATTORI, Masaya; SHIRATA, Kei; KAWAUCHI, Susumu
- 2PC-031** Dielectric behaviors of ferroelectric liquid crystal 2M450BC in coaxial double cylinder type viscometer (Fac. Sci., Fukuoka Univ.) MOTOMATSU, Ryuji; NEGITA, Keishi
- 2PC-032** High-pressure effect on the sol-gel transition in aqueous solution of agarose (Osaka City Univ) TANABE, Masahiro; KOMETANI, Noritsugu
- 2PC-033** Addition of n-alkane in the phase transition of phospholipid bilayers between gel and liquid-crystalline phases (Univ. of Tsukuba) ENDO, Asami; HISHIDA, Mafumi; YAMAMURA, Yasuhisa; NAGATOMO, Shigenori; SAITO, Kazuya
- 2PC-034** Molecular Motion of Dimethylammonium Ion and Phase Transition of [(CH<sub>3</sub>)<sub>2</sub>NH<sub>2</sub>][Zn(HCOO)<sub>3</sub>] (Coll. of Human. and Sciences, Nihon University) ASAJI, Tetsuo; ASHITOMI, Kayo
- 2PC-035** Stress Effect on Gold-Colored Crystal of Azobenzene Derivative DN-azo. (Tokyo Univ. of Sci., Yamaguchi) YAHIRO, Hiroshi; INOKUCHI, Makoto
- 2PC-036** Preparation and SERS properties of Ag/TiO<sub>2</sub> thin films (OIT; department of engineering) TANAHASHI, Ichiro; HARADA, Yoshiyuki; NOMURA, Yuya
- 2PC-037** Angle-resolved HREELS study of surface plasmons on Ag (111) roughened by sputtering (ISSP, Univ. of Tokyo) TOMOBE, Wataru; SHIMIZU, Sumera; YOSHINOBU, Jun; WATANABE, Kazuo
- 2PC-038** Stepwise preparation of gold clusters from Au<sub>11</sub> to Au<sub>12</sub> and Au<sub>13</sub> (Faculty of science, Ibaraki University) SAKURAI, Maki; KUWAHARA, Takumi; SAKAMOTO, Emiko; IZUOKA, Akira
- 2PC-039** Reduction of Au<sub>13</sub> cluster with TDAE. (Faculty of science, Ibaraki University) KANEKO, Keisuke; IZUOKA, Akira
- 2PC-040** Preparation and reactivity of Au<sub>7</sub><sup>3+</sup> cluster (Faculty of science, Ibaraki University) OOTAKE, Takafumi; KODERA, Syouji; IZUOKA, Akira
- 2PC-041** Introduce of metal salt to an Au<sub>10</sub> cluster (Faculty of science, Ibaraki University) OHNUMA, Saori; MURAKAMI, Megumi; MAKUUCHI, Etuyo; IZUOKA, Akira
- 2PC-042** Two-electron oxidation of Au<sub>11</sub> clusters protected by triphenylphosphine derivatives (Faculty of science, Ibaraki University) HARA, Akane; YAMAGUCHI, Mayuka; AKATSU, Miki; IZUOKA, Akira
- 2PC-043** Preparation of alkandithiol derivatized gold nanorod (Faculty of science, Ibaraki University) KIUCHI, Takahito; OHTOMO, Syouhei; IZUOKA, Akira
- 2PC-044** Selectivity in Deoxygenation Reaction of Single-walled Carbon Nanotubes (Department of Chemistry, Tokyo Gakugei University) AMAGAI, Yuri; YAMADA, Michio; MAEDA, Yutaka; HASEGAWA, Tadashi
- 2PC-045** Synthesis and electrochemical properties of new DH-TTP derivatives (Ibaraki Univ.) WATANABE, Takeshi; OTA, Takayuki; NISHIKAWA, Hiroyuki
- 2PC-046** The Rectification of Diarylethenes with Heterocyclic Rings (IMCE, Kyushu University) KOGA, Junya; TSUJI, Yuta; YOSHIZAWA, Kazunari
- 2PC-047** X-ray crystal structure of (DH)<sub>3</sub>FeCl<sub>4</sub> under low temperature (Dept. Chem., TMU) ISO, Daisuke; FUJITA, Wataru; KODAMA, Takasi; YAMADA, Jun-ichi; KIKUCHI, Koichi
- 2PC-048** Development of photo-functional organic materials using TTF derivatives substituted by fluorene frameworks (Grad. School of Sci., Osaka Pref. Univ.) TSUJIMOTO, Keiji; FUJIWARA, Hideki
- 2PC-049** Thermal reactivity of three component organic conductors (DIP)<sub>3</sub>(PF<sub>6</sub>)<sub>x</sub>(solvent)<sub>y</sub> (Nagaoka Univ. of Technology) CHEN, Tianpei; MURAYAMA, Ryosuke; IMAKUBO, Tatsuro
- 2PC-050** Synthesis, Structures, and Properties of Novel Organic Conductors based on Catechol-fused TTF Derivatives (ISSP, Univ. of Tokyo; Toho Univ.) ITO, Yuta; UEDA, Akira; KAMO, Hiromichi; MORIYAMA, Hiroshi; MORI, Hatsumi
- 2PC-051** Crystal Structure and Conductivity of Charge Transfer Salt α-[BEDT-TTF]<sub>4</sub>[ReBr<sub>4</sub>(mal)] (mal = malonate dianion) (Tokyo Univ. of Science, The University of Tokyo) KAWAMATA, Shota; SHIMOTORI, Fumitoshi; ENOMOTO, Masaya; OKAZAWA, Atsushi; KOJIMA, Norimichi
- 2PC-052** New organic magnetic anions PO-CONH-C<sub>6</sub>H<sub>4</sub>(m-p)-SO<sub>3</sub><sup>-</sup> and their TTF and ET salts (Univ. of Hyogo) ISHIHARA, Keita; AKUTSU, Hiroki; YAMADA, Jun-ichi; NAKATSUJI, Shin'ichi
- 2PC-053** Structure and Properties of sulfo-derivatives of TTF and TCNQ and their CT salts (Univ. of Hyogo) OSAKO, Takahiro; AKUTSU, Hiroki;

- YAMADA, Jun-ichi; NAKATSUJI, Shin'ichi
- 2PC-054** Synthesis and Properties of (S,S)-DMDT-MOT and (S,S)-EODM-TTP (Univ. of Hyogo) OTA, Masaki; AKUTSU, Hiroki; NAKATSUJI, Shin'ichi; YAMADA, Jun-ichi
- 2PC-055** Structural and Physical Properties of Molecular Conductors Derived from *meso*-DMDO-MOT and DO-MOT (Univ. of Hyogo) MITSUNAGA, Junya; AKUTSU, Hiroki; NAKATSUJI, Shin'ichi; YAMADA, Jun-ichi
- 2PC-056** Crystal Structure and Magnetic Properties of weakferromagnet:  $\text{RNH}_3\text{CuF}_3$  (Graduated school of science, Hiroshima University) FUJIOKA, Tomonori; NISHIHARA, Sadafumi; INOUE, Katsuya
- 2PC-057** Magnetic Properties of A *p*-Phenylenebis(nitronylnitroxide) Biradical with Temperature-Dependent Intramolecular Exchange Interactions (Graduate School of Science, Osaka City University) KANZAKI, Yuki; SHIOMI, Daisuke; SATO, Kazunobu; TAKUI, Takeji
- 2PC-058** Preparation of Diluted Single Crystals of Nitroxide-Substituted Nitronyl Nitroxide and Iminonitroxide (Osaka City University) OMUKAI, Kosuke; FURUI, Takanori; SUZUKI, Shuichi; KOZAKI, Masatoshi; NAKAZAWA, Shigeaki; SHIOMI, Daisuke; SATO, Kazunobu; TAKUI, Takeji; OKADA, Keiji
- 2PC-059** Crystal Structure and Magnetic Properties of New Metal Dithiolene Complexes  $\text{M}(\text{dtt})_n$  ( $\text{dtt} = 1,3,2$ -Dithiazole-4-thione-5-thiolate,  $n = 2,3$ ) (Dept.Chem.,TMU) NAKAMURA, Tadamis; KODAMA, Takeshi; KIKUCHI, Koichi; FUJITA, Wataru
- 2PC-060** Magnet properties of two-dimensional square-lattice magnet, Bis (glycolato)copper(II),  $\text{Cu}(\text{HOCH}_2\text{COO})_2$ . (Dept.Chem., TMU) YONEYAMA, Shouta; KODAMA, Takasi; KIKUCHI, Koichi; FUJITA, Wataru
- 2PC-061** Crystal Structure and Magnetic Properties of Layered Copper Hydroxides with Various Guest Anions (Tokyo Metropolitan University) FUJITA, Wataru; KIKUCHI, Koichi
- 2PC-062** Structure and magnetic properties of charge transfer complexes composed of organic cations and ferrocyanate ions. (Dept.Chem., TMU) YOSHIDA, Rei; KODAMA, Takasi; KIKUCHI, Koichi; FUJITA, Wataru
- 2PC-063** Magneto-optical properties of peptide compounds (Univ. of Tokyo) HATTORI, Shingo; KITAGAWA, Yuuichi; ISHII, Kazuyuki
- 2PC-064** Dielectric Behavior of Rhenium Mixed-Valence Complexes Having Functionalities on Proton-Coupled Electron Transfer (TUSTohoku Univ. IMRAS) YOSHIKAWA, Makoto; FURUTACHI, Tamotu; SUGAYA, Tomoaki; ISODA, Kyosuke; AKUTAGAWA, Tomoyuki; TADOKORO, Makoto

## Physical Chemistry -Chemical Kinetics and Dynamics-

- 2PC-065** Triplet excimer formation and relaxation in sodium 11-(1-naphthyl) undecanoate micelle (Grad. School of Eng. and Design, Kyoto Inst. of Technol.) ICHINOSE, Nobuyuki; ITOU, Tatsuya; YOSHIMI, Yasuharu
- 2PC-066** Structure and characterization of hydrogen bonded mixed-valence complexes as co-crystal (TUS) IIOKA, Atsushi; NOGUCHI, Koichiro; SUZUKI, You; SUGAYA, Tomoaki; ISODA, Kyosuke; TADOKORO, Makoto
- 2PC-067** Clarification of Exciton Dynamics of CdTe QDs on Epitaxial Graphene on 4H-SiC (School of Science and Technology, Kwansai Gakuin University) HIROSE, Takuya; SHIGEMASA, Hidehumi; OKUHATA, Tomoki; KUTSUMA, Yasunori; KANEKO, Tadaaki; TAMAI, Naoto
- 2PC-068** Efficient Supramolecular Assembly Formation and Photoinduced Electron Transfer of Porphyrin and Naphthalene Diimide Derivatives in Aqueous Solution. (Keio Univ.) MOCHIZUKI, Akira; MIURA, Tomoaki; HASOBE, Taku
- 2PC-069** Effects of oxidative species on the rates of photochemical Kolbe-type decarboxylation of sodium benzoate (Grad. School of Eng. and Design, Kyoto Inst. of Technol.) ICHINOSE, Nobuyuki; NAGAHARA, Tetsuhiko; OBATA, Kazunori
- 2PC-070** Meandering of self-propelled oil droplets induced by a novel lactam-containing cationic surfactant (Graduate School of Arts and Sciences, The University of Tokyo) KUROHA, Rie; BANNO, Taisuke; TOYOTA, Taro
- 2PC-071** Prolonged motion time of self-propelled oil droplets induced by the hydrolysis of gemini-type cationic surfactants containing carbonate linkages (Graduate School of Arts and Sciences, The University of Tokyo) MIURA, Shingo; KUROHA, Rie; BANNO, Taisuke; TOYOTA, Taro
- 2PC-072** Development of a ultra-sensitive Penning ionization electron spectrometer using the magnetic bottle effect (The Univ. of Electro-Communications) NAKAJIMA, Yutaro; ZAIZEN, Moto; YAMAKITA, Yoshihiro
- 2PC-073** An attempt to detect time-resolved Faraday rotation signals induced by photo-chemical reactions (Saitama Univ.) YAGO, Tomoaki; WAKASA, Masanobu
- 2PC-074** Pulse radiolysis and pulse radiolysis-laser flash photolysis of model solution of chemically amplified resist. (Hokkaido Univ.) INOUE, Hiroaki; OKAMOTO, Kazumasa; FUJIYOSHI, Ryoko; SUMIYOSHI, Takashi
- 2PC-075** Visualizing SERS Hot Spot by Super-Resolution Optical Imaging (Kwansai gakuin univ.) FUKUI, Taisuke; MASUO, Sadahiro
- 2PC-076** Laser-induced effects of CO adsorbed on NiAl(110) (Tokyo Univ. of Science) NAGAI, Kenta; NAKASHIMA, Takaaki; TOMOBE, Wataru; WATANABE, Kazuo

- 2PC-077** Control of the emission behavior of a single quantum dot by plasmon generated on an AFM tip (Kwansai Gakuin Univ.) TATEISHI, Tomoki; MASUO, Sadahiro
- 2PC-078** Statistical analysis of fluorescence behavior of single molecules in a two-dimensional photonic band gap (Advanced ICT Research Inst., NICT) KAJI, Takahiro; YAMADA, Toshiki; INOUE, Shin-ichiro; UEDA, Rieko; OTOMO, Akira
- 2PC-079** Coupling of a single quantum dot with a metal nanowire by AFM manipulation (Kwansai Gakuin Univ.) YAMANAKA, Akihiro
- 2PC-080** Plasmon-based optical trapping of a DNA on gold nanostructures; A fluorescence study (Grad. Sch. Sci., Hokkaido Univ.) SAITO, Junki; SYOJI, Tatsuya; KITAMURA, Noboru; NAGASAWA, Fumika; MURAKOSHI, Kei; TSUBOI, Yasuyuki
- 2PC-081** Emission behavior of a single quantum dot interacting with plasmon -Control of the distance between a single quantum dot - gold nanoparticle by AFM manipulation- (Kwansai Gakuin Univ.) KANETAKA, Kesuiku; MASUO, Sadahiro; TERANISHI, Toshiharu; SATO, Ryota
- 2PC-082** Solubilization and photo-induced aggregation of nanocarbons by using a photocleavable lipid (Department of Chemistry and Chemical Biology, Graduate School of Engineering, Gunma University) TAKEUCHI, Naoya; HORIUCHI, Hiroaki; TANAKA, Hidekazu; UEHARA, Hiroki; YAMANOBE, Takeshi; OKUTSU, Tetsuo
- 2PC-083** Application of the femtosecond transient absorption microscopy system to diarylethene derivatives in crystalline phase (Graduate School of Engineering Science, Osaka University and Center for Quantum Materials Science under Extreme Conditions) JINNO, Akira; KATAYAMA, Tetsuro; MIYASAKA, Hiroshi; KOBATAKE, Seiya
- 2PC-084** Diffusion and Adsorption Processes of Guest Fluorescent Molecules in Mesoporous Organosilica with Acridone Group (Ehime Univ.) KONDO, Kenji; ISHIBASHI, Yukihide; YAMANAKA, Ken-ichi; GOTO, Yasutomo; INAGAKI, Shinji; ASAHI, Tsuyoshi
- 2PC-085** Fluorescence Dynamics of Human Serine Hydroxymethyltransferase (Institute for Laser Technology, Mahidol University) TANIGUCHI, Seiji; CHOSROWJAN, Haik; TANAKA, Fumio; WONGNATE, Thanayaporn; CHAIYEN, Pimchai
- 2PC-086** An improvement of the absorption properties in the near-infrared region of the silylated porphyrins (Department of Chemistry and Chemical biology , Graduate School of Engineering , Gunma University) AKIYAMA, Shingo; HORIUCHI, Hiroaki; ITO, Satoshi; OKUTU, Tetsuo; TOBITA, Seiji; YOSHIHARA, Toshitada
- 2PC-087** Photochemical Reactions of Cyclicgermanoxane (Saitama Univ.) SHINOZUKA, Yuho; YAGO, Tomoaki; WAKASA, Masanobu; MOCHIDA, Kunio
- 2PC-088** Quenching reaction of an excited triplet state by molecular oxygen nanobubbles (Univ. of Tsukuba) NISHIMURA, Yoshinobu; ARAI, Tatsuo
- 2PC-089** Exciton relaxation dynamics of CdTe quantum dots by femtosecond transient grating spectroscopy (Kwansai Gakuin University ; School of Science and Technology) TAHARA, Kazuaki; TAMAI, Naoto
- 2PC-090** Resonant Photoionization of Diarylethene Derivatives Using Two-Color Two-Lasers in the Presence of Cyclodextrins (Fukui Univ. of Tech.) MIWA, Makoto; HARA, Michiro

## Colloid and Interface Chemistry

- 2PC-091** Large-Area Oriented Colloidal Crystal Immobilized in Plastic with Uniform Structural Color (National Institute for Materials Science) SAWADA, Tsutomu; KAWANAKA, Satoshi; UCHIDA, Fumio; YAMANAKA, Junpei
- 2PC-092** Effects of Copper Salts on the Synthesis of Triangular Gold Nanoplates By Chemical Reduction Method (Okayama Univ of Sci.) TAKEZAKI, Makoto; NAKAGAWA, Kenichi; KINOSHITA, Kohichi; TOMINAGA, Toshihiro
- 2PC-093** Auger recombination dynamics and their size dependence in CdTe nanorods (Kwansai Gakuin Univ. ; School of Science and Technology) TOMIZAWA, Yuki; OKUHATA, Tomoki; TAMAI, Naoto
- 2PC-094** Development of a  $^{19}\text{F}$  MRI Probe Using Gold Nanoparticles (Kyoto University) SAKAI, Naoko; TAKI, Masayasu; YAMAMOTO, Yukio
- 2PC-095** Polymerization of mono-dispersed polymer particles with oligothiophene on surfaces (Kinki University) NISHIMINE, Jun; OKAMURA, Shintaro; SUENAGA, Yusaku
- 2PC-096** Preparation of Carbon-Supported B2-CuPd Nanoalloy Catalysts (WPI-I2CNER, Kyushu Univ.; JST-CREST) HEIMA, Minako; YAMAUCHI, Miho
- 2PC-097** Synthesis of pole-functionalized gold nanoparticles by surface immobilization approach (FIRST, Konan Univ.) TANAKA, Yuya; ODE, Kentaro; TSURUOKA, Takaaki; NAWAFUNE, Hidemi; AKAMATSU, Kensuke
- 2PC-098** Synthesis of gold nanoparticles coated with aminoporphyrin (FIRST, Konan Univ.) YAMASHITA, Daiki; MURASHIMA, Takashi; AKAMATSU, Kensuke; TSURUOKA, Takaaki
- 2PC-099** Synthesis of satellite nanostructures consisting of gold nanoparticles (FIRST, Konan Univ.) TANIYAMA, Tomoki; MIYANOHATA, Ryo; NABESHIMA, Shota; TSURUOKA, Takaaki; NAWAFUNE, Hidemi; AKAMATSU, Kensuke

- 2PC-100** Preparation of semiconductor/metal nanocrystal composites and control of their fluorescent properties (FIRST, Konan Univ.) KUMANO, Misato; YAMASHITA, Miho; TSURUOKA, Takaaki; NAWAFUNE, Hidemi; AKAMATSU, Kensuke
- 2PC-101** Fabrication of metal nanoparticles/metal-organic frameworks by microwave-assisted approach (FIRST, Konan Univ.) MURAKAMI, Kazuhiro; TSURUOKA, Takaaki; NAWAFUNE, Hidemi; AKAMATSU, Kensuke
- 2PC-102** Aerobic Oxidation of Thiols in a Liquid Phase Catalyzed by Metal Colloids. (Tokyo Univ. of Science Yamaguchi) SUGIUCHI, Mizuho; TOSHIMA, Naoki
- 2PC-103** Preparation and Electro-Optic Properties of Liquid Crystal Devices Doped with Fullerene/Calix[6]arene-Capped Rhodium Hybrid Nanoparticles (Tokyo Univ. of Science, Yamaguchi) SAWAI, Hiroya; SASAKI, Tamotsu; KAKIUCHI, Hideshi; OHGI, Taeko; SHIRAIISHI, Yukihide
- 2PC-104** Withdrawn
- 2PC-105** New method of gold nanoparticle-chitosan nanocomposites fabrication and its application on a catalytic system (Kagoshima University) TSUMAGARI, Rie; KURAWAKI, Junichi
- 2PC-106** Catalytic reaction of platinum nanoparticles protected by porphyrin derivative (School of Science, The University of Tokyo) OKUZONO, Kyoko; MIYACHI, Mariko; YAMANAI, Yoshinori; NISHIHARA, Hiroshi
- 2PC-107** Photopolymerization of acrylate using plasmon excitation of silver nanocubes (Tokyo Univ. of Science) TANAKA, Ryo; WATANABE, Kazuo
- 2PC-108** Preparation of 5CB Liquid Crystal Encapsulated Silica Nanoparticles and the optical properties (Univ. of Tokushima Chemical; RI Center) NIIZUMA, Shoichi; MIYOSHI, Hirokazu; KURASHINA, Masashi; KANEZAKI, Eiji
- 2PC-109** Preparation and Characterization of Ionic Liquid-Nanoparticles Composites (Nara Inst. Sci. Tech.) MORI, Midori; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 2PC-110** In Situ XAFS Measurement of Platinum Nanoparticles Formed at Electrolyte/Carbon Electrode Interface. (Hokkaido University; KEK-PF) UEHARA, Hiromitsu; UEMURA, Yohei; UENO, Ryoichi; KONO, Kentaro; OGAWA, Takafumi; NIWA, Yasuhiro; NITANI, Hiroaki; ABE, Hitoshi; NOMURA, Masaharu; TAKAKUSAGI, Satoru; ASAKURA, Kiyotaka
- 2PC-111** Photo Induced Self-assembly of Au Nanoparticles Protected with Coumarin Derivatives. (JAIST; Shizuoka Univ.) HIRASAKI, Takahiro; MIYABAYASHI, Keiko; MIYAKE, Mikio
- 2PC-112** Room Temperature Ionic Liquids as Nanoparticle Synthesis-Estimation of Properties of Water in Hydrophilic Ionic Liquid- (Wakayama National College of Technology) HAYASHI, Junjiro; KAWABATA, Toshihiro
- 2PC-113** Electrophoretic deposition for colloidal crystallization (Shinshu Univ.) TANIGAMI, Tetsuya; OANA, Sotaro; IKEDA, Mika; NAKAZAWA, Ken
- 2PC-114** Study on Selective Solubilization Using Mixed Surfactant Micelles (Ube National College of Technology) ASHIDA, Takumi; TAKATA, Youiti
- 2PC-115** Nanofiber formation of diphenylalanine-type surfactant by binding of dye. (Kanazawa Univ. Natural Sci. & Tec.) SUZUKI, Toshiya; OHTA, Akio; ASAKAWA, Tsuyoshi
- 2PC-116** Micelle formation using amphiphilic porphyrin (FIRST, Konan Univ.) KITA, Takuro; MURASHIMA, Takashi
- 2PC-117** Competitive solubilization of cholesterol and plant sterols in model intestinal solution (Showa Pharmaceutical University) MATSUOKA, Keisuke; KASE, Asumi; HONDA, Chikako
- 2PC-118** Thermal Diffusion of Dye Doped Micelles Studied by Phase Coherent Light Scattering (Tokyo City University, Faculty of Knowledge Engineering) YANAGISAWA, Ryuta; TAKAGI, Shinsaku
- 2PC-119** Effect of cation inclusion on aggregation behavior of crown-ether surfactants (Tokai Univ.) SUZUKI, Maki; FUJIO, Katsuhiko; TANAKA, Akihiro
- 2PC-120** Synthesis and aggregation behavior of a surfactant having an azulene ring (Tokai Univ.) IKEDA, Yuki; FUJIO, Katsuhiko
- 2PC-121** Difference of CMC and Surface Adsorption Behavior between Sodium Oleate and Saturated Fatty Salts in Aqueous Solution (Fukuoka University, Research Institute of Biological Materials) MURATA, Yoshio; ETO, Kousuke; INOUE, Tohru; SUZUKI, Masao
- 2PC-122** Control of Oscillation Period of Belousov-Zhabotinsky Reaction by the Addition of Polymers. (Graduate School of Science, Osaka University) GOTO, Aki; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 2PC-123** The effects of inhalation anesthetic Halothane and diethyl ether to bovine serum albumin (Wakayama national college of technology) FURUYAMA, Tasuku; NISHI, Yuji; SUGITANI, Kenta; NISHIMOTO, Makoto
- 2PC-124** Preparation and Magnetic Properties of Metal-Free Magnetic Soft Materials Containing a Nitroxide Radical Structure (Kyoto University) ONISHI, Keita; TAKEMOTO, Yusa; SUZUKI, Katsuki; UCHIDA, Yoshiaki; SHIMONO, Satoshi; AKAOKA, Kazushi; TAKI, Masayasu; TAMURA, Rui; KATO, Tatsuhi; YAMAUCHI, Jun
- 2PC-125** Morphology change of peptide nanoassembly with helix-sheet transition for intelligent DDS nano carrier (Kyoto Institute of Technology) HIRATA, Naoyuki; NOZAKI, Masamichi; WAKU, Tomonori; KUNUGI, Shigeru; TANAKA, Naoki
- 2PC-126** Creation of Hierarchical Polysaccharide Strand: Supramolecular Spinning of Nanofibers by Microfluidic Device (Graduate School of Life and Environmental Science, Kyoto Pref. Univ.) TAKIGAMI, Yusuke; KOZAWA, Tomohiro; NUMATA, Munenori
- 2PC-127** Molecular hetero junction based on self-assembling field controlled by time and space (Graduate School of Life and Environmental Science, Kyoto Pref. Univ.) TAKAYAMA, Momoko; NISHINO, Yuri; NUMATA, Munenori; TAMIYAKI, Hitoshi; SHOJI, Sunao
- 2PC-128** Evaluation of an adhesion between supramolecular hydrogels and guest molecules modified glass substrates through molecular recognitions (Graduate School of Science, Osaka University) SAHARA, Taiga; TAKASHIMA, Yoshinori; KOBAYASHI, Yuichiro; KAKUTA, Takahiro; NAKAHATA, Masaki; OTSUBO, Miyuki; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 2PC-129** Self-organization of sucrose monoalkyl ethers (Kagoshima Univ.) TANAKA, Kohei; OKAWABATA, Sachie; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi
- 2PC-130** Self-assembly study on water/ionic liquid interface (Sojo Univ.) KATAYAMA, Risa; TAMARU, Shun-ichi; SHINKAI, Seiji
- 2PC-131** Self-assembling properties of semi-artificial curdlan derivatives (Sojo Univ.) HORI, Kaori; TAMARU, Shun-ichi; SHINKAI, Seiji
- 2PC-132** Preparation of liposome film with pleasant texture and high ability to suppress water evaporation (Tokyo Univ. Tech.; Nippon Suisan Kaisha, Ltd) SHIBATA, Masashi; MAKINO, Komei; HAYAMIZU, Kohsuke; TSUJI, Tomoko
- 2PC-133** Transformation from Gold(I)-cyclo[Met-Met-] Complex Supramolecular Fibers into Aligned Gold Nanoparticles (Institute of Industrial Science, Univ. of Tokyo) FURUTANI, Masahiro; KUDO, Kazuaki
- 2PC-134** Self-assembling behavior of peptide-containing block polymers as spider silk model (Doshisha Univ.) MURATA, Mifumi; KAJIOKA, Shogo; KOGA, Tomoyuki; HIGASHI, Nobuyuki
- 2PC-135** Synthesis of novel diblock polymer composed of elastin-like peptide and PNIPAM, and its double thermo-response (Doshisha Univ.) IWATA, Yuriko; KOGA, Tomoyuki; HIGASHI, Nobuyuki
- 2PC-136** Orientation of Rod-Like Molecules on the Concavo-Convex Patterned Substrates. (NAIST) NAKAMURA, Yuusuke; NOBUSAWA, Kazuyuki; NAITO, Masanobu; KOBAYASHI, Mime
- 2PC-137** Study on Emission from Metal-Organic Framework of Cyclodextrin Including Coumarin Derivatives (NAIST) FUKAO, Takaharu; NOBUSAWA, Kazuyuki; NAITO, Masanobu
- 2PC-138** Liquid-Crystalline Behavior of Cyclodextrin Derivatives (Kanazawa Univ. Graduate School of Natural Science and Technology) WADA, Masahiro; OGOSHI, Tomoki; YAMAGISHI, Tada-aki
- 2PC-139** Synthesis and gelation properties of anthracene derivatives (Yamagata Univ.) AKIYAMA, Yuku; TAJIMA, Akira; ITO, Kazuaki
- 2PC-140** Synthesis and Gelation Behavior of glucose derivatives: Selective gelation for organohalogen compounds (Yamagata Univ.) ITO, Keiichi; WAGATSUMA, Takuya; ITO, Kazuaki
- 2PC-141** Synthesis and gelation behavior of pyridine Derivatives (Yamagata Univ.) SUZUKI, Ryouta; ITO, Kazuaki
- 2PC-142** Electrochemical Properties of Ionic Liquid Gel Electrolyte Based on Low Molecular Weight Compounds (Yamaguchi Univ.) OKAMOTO, Hiroaki; YOSHIDA, Tomohiro; MORITA, Yuki
- 2PC-143** Synthesis and gelation ability of the low molecular weight compounds having a heterocyclic group at the terminal position (Yamaguchi Univ.) OKAMOTO, Hiroaki; SEO, Daiki; MORITA, Yuki
- 2PC-144** Physical properties of liquid crystal doped with Pd nanoparticles stabilized by 5CB analog fluorinated polymer (Tokyo Univ. of Sci., Yamaguchi) ZENMYO, Akari; OKI, Koji; YAMAMOTO, Kohei; INOKUCHI, Makoto; YABUCHI, Kazuhiro
- 2PC-145** Formation of gel by addition of metal alkoxides into cyclohepta[b]fran-2-one derivatives (Faculty of science, Josai University) ISHIKAWA, Kouhei; HASHIMOTO, Masashi
- 2PC-146** Mesomorphic properties of 2-methoxytroponoids having two aryl substituents at C-3 and C-7 (Faculty of science, Josai University; Graduate School of Science and Engineering, Yamaguchi University) KIMURA, Junya; YOSHIDA, Tomohiro; OKAMOTO, Hiroaki; HASHIMOTO, Masashi
- 2PC-147** Synthesis and liquid crystal properties of long-chain 1,3-dialkylimidazolium salts. (Soka Univ.) ABE, Kazuma; SAITO, Minoru; ITO, Masato
- 2PC-148** Synthesis and properties of liquid crystalline gel containing movable components as a crosslinking point (Department of Organic and Polymeric Materials, Tokyo Institute of Technology) ABE, Yoko; OKAMURA, Hisashi; UCHIDA, Satoshi; TAKATA, Toshikazu
- 2PC-149** Alignment Control of Electroactive Supramolecular Self-Assembled Fibers (The Univ. of Tokyo) HINATA, Shoma; YOSHIO, Masafumi; KATO, Takashi
- 2PC-150** Development of Metal Hydroxides/Functional Organic Compounds Composites (The Univ. of Tokyo) YAMAMOTO, Takumi; SAKAI, Hironari; KAJIYAMA, Satoshi; NISHIMURA, Tatsuya; KATO, Takashi
- 2PC-151** Formation of Ion-Conductive Channels by Self-Assembly of the Complexes of Carbonate Derivatives and Lithium Salts (The Univ. of Tokyo; Tokyo University of Agriculture and Technology) HATTORI, Kazuki; YOSHIO, Masafumi; ICHIKAWA, Takahiro; OHNO, Hiroyuki; KATO, Takashi

- 2PC-152** Self-Assembled Properties of Electron-Accepting Liquid-Crystalline TANC Derivatives (TUS) ABE, Tomonori; ISODA, Kyosuke; TADOKORO, Makoto
- 2PC-153** Preparation and photoresponsive behavior of polyvinyl alcohol comprising anthracene side chain (University of Hyogo) KONDO, Mizuh; KOEDUKA, Yuuki; SHOJI, Hiroshi; KAWATSUKI, Nobuhiro; FUNAHASHI, Masahiro
- 2PC-154** Physicochemical Investigation of Mixed Monolayers of Lipids and Cholesterol or Bile acids (Fac. Textile Sci. Technol., Shinshu Univ.) SATO, Shinichi; MCNAMEE, Cathy
- 2PC-155** Formation of bilayer nanodiscs with various organic-inorganic hybrid lipid (Grad. Sch. Mater. Sci., Nara Inst. Sci. and Technol.) KITAZATO, Shingo; YASUHARA, Kazuma; KIKUCHI, Jun-ichi
- 2PC-156** Electrochemical study of the interaction between the biological molecules using thiol modified gold electrodes (NDA) OZAWA, Shinichiro; ARUGA, Atsushi
- 2PC-157** Total internal reflection fluorescence image of the prepared by liposome array using focused ion beam (Shibaura Institute of Technology; Bio Material Lab) SHIOKAWA, Hiroki; KASUYA, Yuuzou; MATSUMURA, Kazunari
- 2PC-158** Rapid Formation of Giant Vesicle Membrane (Shinshu Univ.) AKATSU, Tomohiro; OKUMURA, Yukihisa
- 2PC-159** Formation of Oligovesicular vesicles from giant vesicles (Shinshu Univ.) HORIUCHI, Shun; OKUMURA, Yukihisa
- 2PC-160** Construction of giant vesicles with segmented inner pool by inner vesicles (Kanagawa Univ.; Research Center for Complex Systems Biology, Univ. of Tokyo) SUZUKI, Kentaro; NAKAJIMA, Takuma; SUGAWARA, Tadashi
- 2PC-161** Synthesis of zwitterionic amphiphile and formation of giant vesicles (The Univ. of Tokyo) OKURA, Yusaku; KURIHARA, Kensuke; TOYOTA, Taro; TAKAKURA, Katsuto; SUZUKI, Kentaro; SUGAWARA, Tadashi
- 2PC-162** The effects of long-fatty acid to DPPC bilayer membrane (1) Transition temperature (WNCT) SUGITANI, Kenta; NISHI, Yuji; HURUYAMA, Tasuku; NISHIMOTO, Makoto
- 2PC-163** The effects of long-fatty acid to DPPC bilayer membrane (2) Membrane fluidity (WNCT) NISHI, Yuji; SUGITANI, Kenta; HURUYAMA, Tasuku; NISHIMOTO, Makoto
- 2PC-164** Control of the optical properties of porphyrin molecule by the effect of localized electric fields based on anisotropic silver nanoparticles (Nihon Univ.) TAKESHIMA, Naoto; SUGAWA, Kousuke
- 2PC-165** Formation of interfacial immobilized layer evaluated with quartz crystal microbalance (Univ. of Fukui) HISADA, Kenji; KISHIMOTO, Yohei; MIYAGI, Hiroomi
- 2PC-166** Fabrication of Super-hydrophobic Surface through Gelation Process of Aluminium Stearate (Nagoya Municipal Industrial Research Institute) NAKANO, Kazunori; YAMANAKA, Motoshi
- Univ.; Kyoto Inst. Tech.) SASAYAMA, Shota; NOMURA, Shintaro; YAMAMOTO, Kazuya; TANAKA, Tomonari; KIMURA, Yoshiharu; KADOKAWA, Jun-ichi
- 3PA-011** Synthesis of Various Block Copolymers Using Combination of Living Cationic and RAFT polymerization (Graduate School of Engineering, University of Fukui) Akumaru hadhi, Bin maraji; MIURA, Soichiro; SUGIHARA, Shinji; MAEDA, Yasushi
- 3PA-012** Synthesis of Poly(phenylacetylene) Derivatives Bearing Optically Active and Optically Inactive Polysiocyanate Chains as the Pendants and Their Chiral Amplification Behavior (Kanazawa University) WAKASONE, Shihou; SHIMOMURA, Kouhei; MAEDA, Katsuhiko; IKAI, Tomoyuki; KANOH, Shigeyoshi
- 3PA-013** Transformation of Silica Derived from Asbestos to Silicone Polymer with Silanol Residue (College of Engineering, Chubu Univ.) HABAUE, Shigeki; TESHIMA, Kazuki; TAKAHASHI, Mitsuru; NISHIMURA, Kouki
- 3PA-014** Synthesis and Evaluation of Organic-Metallic Hybrid Polymers Containing Tridentate Ligands. (NIMS; JST-CREST) KANAO, Miki; HIGUCHI, Masayoshi
- 3PA-015** Introduction of succinimide groups to thermoresponsive polysiloxane (National Defense Academy) NAGAFUCHI, Kei; YAMAMOTO, Shin-ichi; MORIYA, Osamu
- 3PA-016** UV-irradiation effect on radiation-induced graft polymerization onto polypropylene (Asahikawa National College of Technology, Graduate School of Hokkaido University) TAKADA, Tomoya; KOIZUMI, Hitoshi
- 3PA-017** Reaction Mechanism for Oxidative Degradation of Polypropylene by Multichannel Fourier-Transform Chemiluminescence Spectroscopy (Tokyo Univ. of Agriculture and Technology; Japan Applied Technology Inc.) YANO, Ayako; HIRONIWA, Takayuki; ISHII, Hiroshi; SATOH, Chikahiro; AKAI, Nobuyuki; NAKATA, Munetaka
- 3PA-018** Accordion-like oscillation driven by internal O-C bond rotation in the side-chain of aliphatic polyacetylene (Muroran Institute of Technology) YOSHIDA, Yoshiaki; MAWATRI, Yasuteru; TABATA, Masayoshi
- 3PA-019** Dynamical helix vibration of aliphatic substituted polyacetylene having an one-handed helical sense structure (Muroran Institute of Technology) YOSHIDA, Yoshiaki; MAWATRI, Yasuteru; TABATA, Masayoshi
- 3PA-020** Ice formation in hydrated saccharide systems (JAEA) SEKINE, Yurina; KAJIWARA, Yutarou; ITO, Yu; FUKAZAWA, Hiroshi
- 3PA-021** Synthesis and Properties of Folded H-Stacking Polymers (Kanagawa University, Department of Material and Life Chemistry) MORIAI, Ryota; NOMURA, Ryouzuke; FUNYU, Shigeaki; ISHITSUKA, Ken-ichi; OKAMOTO, Sentaro
- 3PA-022** Synthesis and evaluation of liquid-crystalline polymers prepared by atom transfer radical polymerization (Chemical Resources Laboratory, Tokyo Institute of Technology) UMEGAKI, Kaoru; KATO, Kei; MAMIYA, Jun-ichi; KINOSHITA, Motoi; SHISHIDO, Atsushi
- 3PA-023** Improvement of wettability and adhesivity of ultrahigh molecular weight polyethylene plate by photografting technique (Nihon University; College of Industrial Technology) YOSHIDA, Haruka; YAMADA, Kazunori
- 3PA-024** Formation of gels from polymers which have amino group as a side chain and carbon dioxide as a gellant (Univ. of Fukui; Kanazawa Univ.) MAEDA, Shiro; TAKAGI, Ken; KOBAYASHI, Mina; KUNIMOTO, Ko-ki
- 3PA-025** Phase separation mechanisms of aqueous poly(N-isopropylacrylamide) solutions analyzed by single molecular fluorescence imaging technique (Sch. Sci., Hokkaido Univ.) TADA, Takanori; KATSUMOTO, Yukiteru; GOOSSENS, Karel; UJI-I, Hiroshi; HOFKENS, Johan; KITAMURA, Noboru; TSUBOI, Yasuyuki
- 3PA-026** Phase separation dynamics in aqueous solutions of thermoresponsive acrylamide-based polymers (Hokkaido Univ.) WAKABAYASHI, Ryo; TADA, Takanori; KITAMURA, Noboru; TSUBOI, Yasuyuki
- 3PA-027** Structure of microcellular poly (methyl-methacrylate) foam (Meiji Univ.) AHN, Hyosang; SEKINE, Yurina; AIZAWA, Mamoru; FUKAZAWA, Tomoko
- 3PA-028** Gelation behavior of kappa-carrageenan solution (Meiji Univ.) KATSUMATA, Tomohiro; SEKINE, Yurina; FUKAZAWA, Tomoko
- 3PA-029<sup>†</sup>** Gold Nanoparticles Stabilized by a Novel Hyperbranched Polystyrene Support as an Efficient and Recyclable Catalyst (Institute for Materials Chemistry and Engineering, Kyushu Univ, Nissan Chemical Industries, Ltd.) GAO, Lei; NISHIKATA, Takashi; TSUTSUMI, Hironori; KOJIMA, Keisuke; CHIKAMA, Katsumi; NAGASHIMA, Hideo
- 3PA-030** Synthesis and applications of epichlorohydrin-tetrahydrofuran copolymer gels bridged by viologen units (Grad. Sch. Sci., Eng., Yamagata Univ.) SATO, Rikiya; KUDO, Tomoya; SHOJI, Kotaro
- 3PA-031** Synthesis of Helical Polysiocyanides Bearing Oligothiophene Pendants Aiming at the Application to Polymer Solar Cells (Kanazawa University) IKAI, Tomoyuki; TAKAGI, Yugaku; MAEDA, Katsuhiko; KANOH, Shigeyoshi
- 3PA-032<sup>†</sup>** Cyclic organoboron electrolyte as lithium ion transport media (Sch. Mat. Sci., JAIST) VEDARAJAN, Raman; JOSHI, Prerna; MATSUMI, Noriyoshi
- 3PA-033** Electrochemical polymerization of mesityl bis(2-thienyl) borane (Sch. Mat. Sci., JAIST) IWAI, Kastuhito; VEDARAJAN, Raman; MATSUMI, Noriyoshi
- 3PA-034<sup>†</sup>** Ion Conductive Properties of Organic Inorganic Hybrid Ion-gels

Sunday, March 24, AM

(10 : 00~11 : 30)

## Polymer

- 3PA-001** The Effect of Amines on the Radical Polymerization Initiated with Borane-ammonia Complex (Tohoku Seikatsu Bunka Junior College) KANNO, Shuichi
- 3PA-002** The Study about the Polymerization Conditions of the Radical Polymerization Initiated with N-Hexylpyridinium Trifluoromethanesulfonate (Tohoku Seikatsu Bunka Junior College) KANNO, Shuichi; SUDA, Atsushi
- 3PA-003** Synthesis of Novel Main- and Side-Chain-Sequenced Polymers from Sequence-Regulated Oligomers (Nagoya University) SOEJIMA, Takamasa; SATOH, Kotaro; KAMIGAITO, Masami
- 3PA-004** RAFT-type metal-free living cationic vinyl polymerization (Graduate School of Engineering, University of Fukui) KONEGAWA, Naoto; SUGIHARA, Shinji; MAEDA, Yasushi
- 3PA-005** Living Cationic Polymerization via Reversible Addition-Fragmentation Chain Transfer Mechanism (Grad. Sch. Eng., Nagoya Univ.) UCHIYAMA, Mineto; SATOH, Kotaro; KAMIGAITO, Masami
- 3PA-006** Living Cationic Polymerization and Copolymerization of Plant-Derived Anethole (Graduate School of Engineering, Nagoya University) SUZUKI, Shinya; SAITOH, Shoichi; SATOH, Kotaro; KAMIGAITO, Masami
- 3PA-007** Synthesis and copolymerizations of 1-phenyl-2-propyn-1-ol with 1-phenyl-2-propyn-1-amine (Tokyo Gakuji Univ.) YOSHIIHARA, Nobutoshi; SASAKI, Ayari
- 3PA-008** Oxidative Coupling Polymerization of 2,3-Dihydroxynaphthalene with Pyridylimidazole Derivatives (College of Engineering, Chubu Univ.) ITO, Ryouzuke; TAKEDA, Satoshi; NIYOMURA, Osamu; HABAUE, Shigeki
- 3PA-009** Oxidative Coupling Polymerization of Hydroxymethylphenol Derivative (College of Engineering, Chubu Univ.) IWAI, Shigeyuki; WATANABE, Tomohiro; HABAUE, Shigeki
- 3PA-010** Synthesis of supramolecular polymers by vine-twinning polymerization using maltooligosaccharide-functionalized poly(lactide) (Kagoshima

Composed of Borosilicate Glass and Low Viscous Ionic Liquids (Sch. Mat. Sci., JAIST) SAISMARAN, Kumar; VEDARAJAN, Raman; MATSUMI, Noriyoshi

**3PA-035** Properties of Ionic Liquid/Boron Compound Mixtures as Electrolytes (Sch. Mat. Sci., JAIST) TAMARU, Emari; VEDARAJAN, Raman; MATSUMI, Noriyoshi

**3PA-036<sup>#</sup>** Facile synthesis of polyoxythiophene based conducting polymers via direct C-H arylation (RIKEN) ZHAO, Haichao

**3PA-037** Development of Various types of (Meth)acrylate Monomers Utilizing Ferulic Acid Derived From Rice Bran (Shin-Nakamura Chemical Co. Ltd.; Tsuno Food Industrial Co. Ltd.; Industrial Technology Center of Wakayama Prefecture) IYO, Masami; MORI, Hajime; MIYAZAKI, Takashi; MORI, Takeshi; OSAKI, Syusuke; TSUNO, Takuo; FUJITA, Muneki

**3PA-038** Structural effect of cross-linker on photopolymerization-induced molecular alignment (Chemical Resources Laboratory, Tokyo Institute of Technology) KUDO, Atsushi; MAMIYA, Jun-ichi; KINOSHITA, Motoi; SHISHIDO, Atsushi

**3PA-039** Evaluation of molecular reorientation behavior of photocrosslinkable liquid-crystalline copolymer film containing phenylamide mesogenic side chain (University of Hyogo) KONDO, Mizuho; DOZONO, Yoshiyuki; KAWATSUKI, Nobuhiro

**3PA-040** Influence of z-axis intensity distribution of interference pattern on blazed surface relief formation in azobenzene polymer films using asymmetric polarization holography (Graduate school of Engineering, Univ. of Hyogo) NISHIOKA, Emi; KONDO, Mizuho; KAWATSUKI, Nobuhiro; SASAKI, Tomoyuki; ONO, Hiroshi; EMOTO, Akira

**3PA-041** Effect of molecular weight on photoinduced reorientation of photocross-linkable liquid crystalline polymers. (Graduate school of Engineering, Univ. of Hyogo) SHOJI, Hiroshi; KONDO, Mizuho; KAWATSUKI, Nobuhiro

**3PA-042** Photoinduced orientation of phenylthioester liquid crystalline polymers with different alkylene spacer length. (Graduate school of Engineering, Univ. of Hyogo) UCHIMURA, Hiroki; HOSODA, Risa; KONDO, Mizuho; KAWATSUKI, Nobuhiro

**3PA-043** Surface Hydrophilization by Hydrophobic-Hydrophobic Diblock Polymer Based on Poly(trimethylene carbonate). (Faculty of Science and Engineering, Konan Univ.) TAKATA, Yugo; KIMOTO, Atsushi; WATANABE, Junji; IKEDA, Yoshiyuki

**3PA-044** Synthesis poly(ethylene glycol)-grafted poly(amino acid) and formation-dissociation of supramolecular structure (Konan University) OTA, Ayaka; KIMOTO, Atsushi; WATANABE, Junji; MIYAZAWA, Toshihumi; IKEDA, Yoshiyuki

**3PA-045** Adsorption Ability and Selectivity of Polymeric Membranes including Host Molecule for Alkylphenol (Advanced Course of Chemical and Biological Engineering Course) KUDO, Yudai; KIKUCHI, Yasuaki; KOBAYASHI, Takaomi

**3PA-046** The preparation and characterization of functional polymer membranes having recognition ability for cyclic diols (Advanced Course of Chemical and Biological Engineering Course) KAWAMURA, Shunsuke; KIKUCHI, Yasuaki; KOBAYASHI, Takaomi

**3PA-047** Immobilization of Trypsin on Graphene Oxide Nanosheets for Increased Proteolytic Stability (Kumamoto Univ.; CREST) SAKATA, Masayo; FUNATSU, Asami; SONODA, Shohei; MATSUMOTO, Yasumichi

**3PA-048** Gelation and photopolymerization behaviors of two-component systems of diacetylene organogelators (Graduate school of Chemical Sciences and Technology, Tokyo Univ. of Sci.) HORITSUGU, Kosuke; HARADA, Mai; TAMAOKI, Nobuyuki; AOKI, Ken'ichi

**3PA-049** Self-Assembly of Low-Molecular-Weight Gelators Having Organic Radical Moieties (The Univ. of Tokyo) EIMURA, Hiroki; YOSHIO, Masafumi; TOKORO, Hiroko; OHKOSHI, Shin-ichi; KATO, Takashi

**3PA-050** Micro and nano pattern deformation of thermoresponsive gel resist using ionic liquids (Toyama industrial technology center) YOKOYAMA, Yoshiyuki

**3PA-051** NMR Studies of Poly(N-isopropylacrylamide) adsorbed on Porous Materials (Yokohama City Univ.) SUZUE, Atsushi; KADOKURA, Meiko; HONDA, Hisashi

**3PA-052** Effect of amino acid structure on thermoresponsibility of polysilsesquioxane containing urea group (National Defense Academy) TAKUSHIMA, Hiroyuki; TOKIWA, Fuyuki; YAMAMOTO, Shin-ichi; MORIYA, Osamu

**3PA-053** polymer-modified mediator stabilizing biofuel cell anode (AISIN COSMOS R&D Co., Ltd.) NAKASHIMA, Yasuo; MIZOSHITA, Norihiro; TANAKA, Hiromitsu; OKAMOTO, Hirotaka

**3PA-054** Optical properties of a photosynthetic antenna pigment, Chlorophyll c as a pH-sensor (OCARINA; JST-PRESTO; Osaka City Univ.; Ritsumeikan Univ.; South product Inc.; JST-CREST) FUJII, Ritsuko; SENJU, Naoki; MIZOGUCHI, Tadashi; IHA, Masahiko; ICHIMURA, Akio; HASHIMOTO, Hideki

**3PA-055** Pigments and protein composition of the photosynthetic antenna from a siphonous green alga (*Codium intricatum* Okamura) (OCARINA; Osaka City Univ.; JST-PRESTO; South Product Inc.; JST-CREST) SHIGEMATSU, Yusuke; FUJII, Ritsuko; OKA, Naofumi; IHA, Masahiko; HASHIMOTO, Hideki

## Organic Chemistry -Reaction and Synthesis-Heteroatom Compounds

**3PA-057** Examination of Synthesis of Hexakis(terthienyl)disiloxane (Fac. Sci., Toho Univ.) WATABIKI, Yuta; MATSUKAWA, Shiro; TAKAHASHI, Masashi

**3PA-058** Efficient Synthesis of Methanofullerene Derivatives Using Sulfur Ylides (Osaka Municipal Technical Research Ins.; Ryukoku Univ.) ITO, Takatoshi; HAYAMA, Keisuke; IWASAWA, Tetsuo; MATSUMOTO, Fukashi; IWAI, Toshiyuki; HIDA, Kouichi; MORIWAKI, Kazuyuki; TAKAO, Yoko; MIZUNO, Takumi; OHNO, Toshinobu

**3PA-059** Development of synthesis of selenophosphoric amides derived from secondary amines and their transformation (Department of Chemistry, Faculty of Engineering, Gifu University) JINNO, Issei; INAJI, Shinsuke; MURAI, Toshiaki

**3PA-060** A New Protecting Group of primary amines containing allylsilanes (Nara National College of Technology) MICHIKAWA, Akiko; SAKO, Makoto; KAMEI, Toshiyuki; SHIMADA, Toyoshi

**3PA-061** Synthesis, Structure and Reactivities of Novel Ch(III)-CH=S(VI) Compound (Coll. Ind. Tech. Nihon Univ.) SUZUKI, Tsubasa; MOROSAKI, Tomohito; FUJII, Takayoshi

**3PA-062** The Generation of Selenocarbamoyllithiums and Diselenocarbamates and Their Application (Department of Chemistry, Faculty of Engineering, Gifu University.) TOKIWA, Issei; HORI, Rumi; MURAI, Toshiaki

**3PA-063** Preparation and electrochemical property of phthalocyanines with the TTF unit (Iwate Univ.) KIMURA, Takeshi; HONDA, Masatsugu

**3PA-064** Synthesis of new bicyclo[2.2.2]octadiene-fused thiophenes (Faculty of Science, Ehime Univ.; Integrated Center for Sciences, Ehime Univ.) MIYAI, Yuki; NASA, Syouta; MORI, Shigeki; TANI, Hiroyuki; UNO, Hidemitsu

**3PA-065** Reactivity of (NMe<sub>4</sub>)<sub>4</sub>[Cd<sub>10</sub>S<sub>4</sub>(SPH)<sub>16</sub>] towards Organic Selenium and Tellurium Compounds as Nucleophiles (Okayama Univ.) YAMAMOTO, Shoko; TAKAHASHI, Nobuhiro; TAKAGI, Shoji; TAJIMA, Tomoyuki; TAKAGUCHI, Yutaka

**3PA-066** Stereoselective Seleno-Claisen Rearrangement via Chalcogenation of Carbonyl Compounds with Elemental Chalcogen (Gifu University) SUZUKI, Masafumi; KUBOTA, Saki; SHIBAHARA, Fumitoshi; MURAI, Toshiaki

**3PA-067** Synthetic Studies on a Bis(phosphino)silylene (ICR, Kyoto Univ.) AWANE, Hiroyuki; YAMAMOTO, Osami; SASAMORI, Takahiro; TOKIHO, Norihiro

**3PA-068** Synthetic Studies on Compounds with Chiral Silicon Center by Enzymatic Desymmetrization (Okayama Univ. of Science) SAKAMOTO, Mariko; NAKATANI, Kazuhiro; KUBOKI, Atsuhito; OHIRA, Susumu

**3PA-069** Synthesis and photo physical properties of 5-arylaminothiazoles with a range of substituents at 4-position. (Department of Chemistry, Faculty of Engineering, Gifu University) HASEGAWA, Saki; YAMAGUTI, Kirara; HORI, Fumihiko; MURAI, Toshiaki

**3PA-070** Synthetic development of terminal-modified type poly(p-phenylene-sulfide) for the improvement of the polymer properties (Fac. of Engin., Iwate Univ) OGAWA, Satoshi; ARAKI, Shun; INADA, Satoshi; MURAOKA, Hiroki

**3PA-071** Unique Intramolecular Coupling Reaction of [7]Thiaheterohelicenes using Iodotrimethylsilane (Fac. of Systems Engineering, Wakayama Univ.) NAMIKAWA, Toshihiro; OSUGA, Hideji; INUI, Yasutaka; SAKAMOTO, Hidefumi

**3PA-072** Kinetic Resolution of P-Chirogenic Compounds by Asymmetric Alcoholysis (Department of Chemistry, Kyushu University) ITOH, Hisashi; YOKOO, Yoshihiro; HAMASAKI, Akiyuki; ISHIDA, Tamao; TOKUNAGA, Makoto

**3PA-073** Development of Novel Synthetic Method of Dibenzosilole Using Intramolecular Radical Cyclization (ICU; CLA) NAKAMICHI, Aki; KOBAYASHI, Junji

**3PA-074** Electrochemical properties of anthraquinone derivatives bearing amino acids containing chalcogen moieties (Osaka Prefecture Univ.) TOHMA, Jun; NOMOTO, Akihiro; UCHIDA, Mari; UESHIMA, Michio; OGAWA, Akiya

**3PA-075** Reusable iron chloride/silica gel-catalyzed acylation of alcohols, phenols and anilines under solvent-free conditions (Osaka Municipal Technical Research Ins.) MIHARA, Masatoshi; NAKAI, Takeo; IWAI, Toshiyuki; ITO, Takatoshi; OHNO, Toshinobu; MIZUNO, Takumi

**3PA-076** Synthetic study of guaiazuleno-pentathiepin and the related compounds by the use of activated sulfur reagents (Univ. of Saitama) IWASE, Mana; SAITO, Takahito; SATO, Ohki

**3PA-077** Synthetic development of functional poly(p-arylenesulfide) having high Tg (Fac. of Engin., Iwate Univ.) OGAWA, Satoshi; INADA, Satoshi; ARAKI, Shun; MURAOKA, Hiroki

**3PA-078** Withdrawn

**3PA-079** Synthesis and Reaction of 1,3,5-trimethyl-2,4,6,8,9,10-hexathiatricyclodecane (Tokyo Institute of Technology; Chemical Resources Laboratory) MATSUMOTO, Mitsuhsa; TANIGUCHI, Yuki

**3PA-080** Facile deprotection of acetals with a catalytic amount of Meerwein's reagent in anhydrous media (Nara National College of Technology)



- SHIBAJI, Kouki; JORAPUR, Yogesh R.; KAMEI, Toshiyuki; SHIMADA, Toyoshi
- 3PA-081** Synthesis and Optical Properties of Sulfanenitrile Bearing Boron-dipyrromethene (Coll. Ind. Tech., Nihon Univ.) KUBOTA, Seiya; FUJII, Takayoshi
- 3PA-082** Synthesis, Structures, and Properties of Tri(*p*-aminophenyl)borane Derivatives (Univ. of Toyama) YOSHINO, Junro; NAKAMURA, Yuri; KUNITOMO, Shizuka; HAYASHI, Naoto; HIGUCHI, Hiroyuki
- 3PA-083** Linear Polyatomic Chalcogenides Connected by *p*-Phenylene Unit (Wakayama Univ.) TAKAGAKI, Ryota; HAYASHI, Satoko; NAKANISHI, Waro
- 3PA-084** Synthesis of Silicon Compounds having Novel Tridentate Ligand (Fac. Sci., Toho Univ.) OGUMA, Takahiro; MATSUKAWA, Shiro; TAKAHASHI, Masashi

### Education and History

- 3PA-085** Applicable area of detergent enzymes as interdisciplinary teaching aids (Naruto University of Education) INUTSUKA, Masato; GOTO, Akitō; MUNEGUMI, Toratane; HAYAFUJI, Yukitaka
- 3PA-086** Development of teaching materials about oxidation of vegetable oils (Tokyo Univ. of Sci.) KAWANO, Takahiro; INOUE, Masayuki
- 3PA-087** Development of a teaching material for iodoform reaction by electrolysis (Tokyo Univ. of Sci.) FUJINO, Yuuki; INOUE, Masayuki
- 3PA-088** Application of Environmentally Friendly Synthesis of Adipic Acid to Education of Green Chemistry (Shizuoka Institute of Science & Technology; Tokoha Gakuen Tachibana High School) KIRIHARA, Masayuki; GONO, Takashi; NOGUCHI, Takuya; ISHIZUKA, Yuki
- 3PA-089** Development of Microscale Experiments on Chemiluminescence (Gunma National College of Technology; Technical Support Center for Education and Research) OHNO, Kayoko; TAIRA, Nobuyuki
- 3PA-090** Small-scale experiments realized by the utilization of the straws (Chiba Univ.) WATANABE, Shintaro; TOZAKI, Ken-ichi; HAYASHI, Hideko
- 3PA-091** Classification of Microscale Chemistry Experiments Reported in Japan on the Basis of the Sections in the Current Course of Study for Senior High School Chemistry in Japan (Faculty of Engineering, Soka University) HARA, Toshiaki; ITO, Masato
- 3PA-092** Development of the novel chemical experiment using metal as a familiar material (Ibaraki University) MOURI, Yasutaka; MATSUKAWA, Satoru
- 3PA-093** Research on composition of an artificiality pearl (Ibaraki University) YAMAZAKI, Chiho; MINATO, Kaoruko; MATSUKAWA, Satoru
- 3PA-094** Development of biofuel cell for teaching materials using yeast as biocatalyst (Nara National College of Technology) MIKI, Kojiro; KAWASHIMA, Kohei
- 3PA-095** Identification of unknown gases utilizing disposable syringe with lure stopcock. (Hokkaido Univ. of Edu.) TAGUCHI, Satoshi; FUCHIGAMI, Satoru
- 3PA-096** Monozukuri education in the field of chemistry through development of a particle size analyzer (Univ. of Tokushima) UETA, Shoko; SOTOWA, Kenichiro
- 3PA-097** Introduction to Advanced Sciences in the University Experimental Lessons II (Univ. of Electro-Communications) OHASHI, Kazutaka
- 3PA-098** The experiment of the property of the water solution using the pigment that extracted from a plant -II- (Ehime Univ., Department of Education) DANOH, Rina; OHASHI, Atsushi
- 3PA-099** Activities for Increasing the Familiarity with Molecules in Face-to-face Science Events (University of Niigata Prefecture) HONMA, Yoshio
- 3PA-100** An attempt to tie independent researches on chemistry in general education to open classes (Kisarazu National College of Tech.) YOSHII, Fumiko
- 3PA-101** Chemistry education in the JST program of the "Mirai no kagakusha yousei kouza" (Shizuoka Univ.) URITANI, Masahiro; SAKAMOTO, Kenkichi; OYOYOSHI, Takanori; NISHINA, Naoko
- 3PA-102** Application of tablet devices to chemical education at college of technology (Department of General Education, Kobe City College of Technology) SATO, Hirotoshi; FUKUMOTO, Kozo
- 3PA-103** The way of intellectual property education for science and technology students (Osaka Univ. IPrism) YOSHIDA, Etsuko; OZAKI, Atsushi; AOKI, Hiroya; NISHIKIORI, Kenji; AOE, Hidefumi
- 3PA-104** A chemistry class for non-science students. (Seijoh Univ., Business Admin.) TERAUCHI, Kaed; TERAUCHI, Mamoru
- 3PA-105** Making a design of "matter in our daily lives" lessons in lower secondary school for improving ability of students' scientific explanation (Univ. of Hiroshimal) MATSUSHITA, Mochihisa; NOZOE, Susumu; ISOZAKI, Tetsuo
- 3PA-106** Improvement of the Handmade Molecular Model to Learn Nucleophilic Substitution (Tomakomai National College of Technology) YAMAGUCHI, Kazumi; SASAMURA, Yasuaki
- 3PA-107** Development of chemical teaching materials for first year students: bonding and structure of molecules (Kitasato University; College of Liberal Arts and Sciences) DAIGOKU, Kota
- 3PA-108** Interlocking building blocks for use as a teaching aid in chemistry:

- Olefin polymerization using organometallic catalyst (Kyoto Univ.) HORIKOSHI, Ryo; KOBAYASHI, Yoji; KAGEYAMA, Hiroshi
- 3PA-109** Reduction of aromatic nitro compounds utilizing gold nanoparticle catalyst supported on chitosan (Tokyo Univ. of Sci.) HAYAKAWA, Shun; INOUE, Masayuki
- 3PA-110** Development of teaching material about synthesis of acetaminophen starting from phenol (Tokyo Univ. of Sci.) NAKAMURA, Masao; INOUE, Masayuki
- 3PA-111** Distinction between 2-deoxy sugar and 2-hydroxy sugar utilizing gold (III) compound supported on chitosan (Tokyo Univ. of Sci.) MISHINA, Yurii; INOUE, Masayuki

### Organic Chemistry -Reaction and Synthesis-Metallo-organic Chemistry

#### Ba

- 3PA-113** Synthesis of Benzylic Amines Using Reactive Barium (Chiba University) SAWAE, Toshiaki; YOSHIDA, Kazuhiro; YANAGISAWA, Akira

#### Sc

- 3PA-114** Development of Aza-Michael Addition to 4,4,4-Trifluorocrotonic Acid Derivatives Using Chiral Rare Earth Catalyst (Akita National College of Technology, Institute for Materials Chemistry and Engineering, Kyushu University) SUZUKI, Shoko; YOKOYAMA, Yasuo; FURUNO, Hiroshi; ONITSUKA, Satoaki; INANAGA, Junji

#### Ti

- 3PA-115** Radical Reduction of Oxetanes Catalyzed by Titanatranne (Kanagawa University, Department of Material and Life Chemistry) TAKEKOSHI, Naoto; MIYASHITA, Kenji; MATSUNO, Chikashi; OKAMOTO, Sentaro

#### Zr

- 3PA-116** Synthesis of Triphenylenes by Suzuki-Miyaura Coupling of Cyclic Alkenylboronates (Graduate School of Natural Science and Technology, Okayama University) SUETSUGU, Masato; KINOSHITA, Megumi; SAITO, Daisuke; IWASAKI, Masayuki; NISHIHARA, Yasushi

#### Nb

- 3PA-117** Low-valent niobium catalyzed highly selective [2+2+2] cycloaddition of alkynes and olefins leading to 1,3-cyclohexadiene derivatives. (Faculty of Chemistry, Materials and Bioengineering, Kansai University) KAMEI, Motofumi; OBORA, Yaauchi

#### Re

- 3PA-118** Synthesis of Alkenes by the Rhenium-Catalyzed Reaction of Alcohol with Alkenylsilane (Kansai University) UCHIYAMA, Kohei; ARAKI, Nanase; UMEDA, Rui; NISHIYAMA, Yutaka

#### Fe

- 3PA-119** Effect of ligands for iron catalyst on oxidation with hydrogen peroxide (Osaka Municipal Technical Research Ins.) NAKAI, Takeo; IWAI, Toshiyuki; MIHARA, Masatoshi; ITO, Takatoshi; MIZUNO, Takumi

#### Ru

- 3PA-120** Ruthenium-Catalyzed Ortho-Selective C-H Borylation of Aromatic Aldimines (Kitami Inst. of Tech.) OKADA, Shinsuke; NAMIKOSHI, Takeshi; WATANABE, Shinji; MURATA, Miki
- 3PA-121** Ruthenium-Catalyzed Ortho-Selective C-H Silylation of Benzamides (Kitami Inst. of Tech.) TAKADA, Kosuke; NAMIKOSHI, Takeshi; WATANABE, Shinji; MURATA, Miki
- 3PA-122** Catalytic asymmetric cyclopropanation reactions of allylsilane derivatives and their synthetic applications (Toyohashi Univ. of Tech.; Department of Materials Science; Fine Organic Chemistry Lab.) TAZAKI, Masataka; CHANTHAMATH, Soda; SHIBATOMI, Kazutaka; IWASA, Seizi

#### Co

- 3PA-123** Cobalt-Catalyzed Addition of Silylacetylenes to Internal Alkynes (Kanagawa University, Department of Material and Life Chemistry) FUJIMOTO, Takahiro; SUGIYAMA, Yuuki; SAKURADA, Tetsuya; OKAMOTO, Sentaro

## Rh

- 3PA-124** Intermolecular Dehydrogenative Annulation of Dialdehydes with Alcohols Catalyzed by a Rhodium(III) Complex (Tokyo Univ. of Science) ABE, Shinya; KIRIKAE, Haruki; MATSUDA, Takanori
- 3PA-125** Rhodium-Catalyzed Arylation of Acylsilanes with Arylboron Compounds (Tokyo Univ. of Science) MIZUNO, Kohei; MATSUDA, Takanori
- 3PA-126** Rhodium complex-catalyzed cross [2+2+2] cycloaddition of phenylacetylenes with methyl propiolate. (School of engineering Tokai university) NARITA, Ikoma; MORITA, Tomoyuki; KEZUKA, Satoko

## Ir

- 3PA-127** Iridium-catalyzed cross dimerization of alkynes (School of engineering Tokai university) KOSUGI, Kenji; BYUERU, Akira; KEZUKA, Satoko
- 3PA-128** Iridium-Catalyzed [2+2+2] Cycloaddition of Tetraynes with Nitriles (Coll. Sci. Eng., Aoyama Gakuin Univ.) MIURA, Hiroki; YAMAZAKI, Shun; EBIHARA, Yukiko; TAKEUCHI, Ryo
- 3PA-129** Modular Synthesis of Various Chiral BicyclicN-Heterocyclic Carbene Ligands and Those Application to Transition-Metal-Catalyzed Asymmetric Reactions (Graduate School of Science, Chiba University) KUWABARA, Hiroshi; YOSHIDA, Kazuhiro; YANAGISAWA, Akira
- 3PA-130** Reversible Dehydrogenation and Hydrogenation of Nitrogen Heterocycles Catalyzed by Iridium Complexes Bearing Functional Bipyridonate Ligands and Mechanistic Study (Kyoto Univ.) KOBAYASHI, Masato; TANAKA, Yui; FUJITA, Ken-ichi; YAMAGUCHI, Ryohei
- 3PA-131** Asymmetric hydrosilylation of ketone at room temperature catalyzed by iridium complex bearing chiral NHC ligand containing hydroxy-amide group on the side-arm (Kansai Univ.) SHINOHARA, Kanako; NAKAMURA, Hanako; KAWABATA, Shun; SAKAGUCHI, Satoshi
- 3PA-132** Dehydrogenative Lactonization of Diols in Aqueous Media Catalyzed by a Water-Soluble Iridium Complex Bearing a Functional Ligand and Mechanistic Study (Kyoto Univ.) ITO, Wataru; FUJITA, Ken-ichi; YAMAGUCHI, Ryohei
- 3PA-133** Catalytic reaction using iridium nanoclusters (Faculty of Chemistry, Materials and Bioengineering, Kansai University) KITAMURA, Koji; KAWASAKI, Hideya; OBORA, Yasushi

## Ni

- 3PA-134** Polymerization of 1,6-Diynes Catalyzed by Nickel Complexes (Kanagawa University, Department of Material and Life Chemistry) SUGIYAMA, Yuuki; FUJIMOTO, Takahiro; SAKURADA, Tetsuya; OKAMOTO, Sentaro
- 3PA-135** Synthesis of sub-nanometer-sized Nickel clusters and their catalytic application (Faculty of Chemistry, Materials and Bioengineering, Kansai University) OKA, Hideo; YANO, Hiroki; KAWASAKI, Hideya; OBORA, Yasushi

## Pd

- 3PA-136** Palladium-mediated Synthesis of cyclopentenone derivatives using acid chlorides, internal alkyne and disilane (Faculty of Chemistry, Materials and Bioengineering, Kansai University) MATSUI, Masaki; ARAI, Tomonari; NAKAI, Syunji; OBORA, Yasushi
- 3PA-137** Palladium Complex Catalyzed Oxidative Coupling Reaction of Heterocyclic compounds with Simple Olefins (Faculty of Chemistry, Materials, and Bioengineering, Kansai University) MIZOBE, Tomoaki; ASAHINA, Akira; OBORA, Yasushi
- 3PA-138** Palladium-catalyzed cyclopropanation of norbornene derivatives with phenylpropargyl acetates (Graduate School of Science, Shizuoka Univ.) TANIOKA, Yuta; TSUKADA, Naofumi
- 3PA-139** Synthesis of Axially Chiral Aminophosphines and Application to Palladium-Catalyzed Asymmetric Allylic Alkylation (Chiba Univ.) MINO, Takashi; ASAKAWA, Minato; YAMADA, Haruka; SAKAMOTO, Masami
- 3PA-140** Hydrazone-Palladium Catalyzed Allylic Arylation of Allyloxyphenylboronic Acid Pinacol Esters. (Chiba Univ.) MINO, Takashi; KOGURE, Taketo; ABE, Taichi; SAKAMOTO, Masami
- 3PA-141** Hydrazone-Palladium Catalyzed Decarboxylative Coupling of Benzoic Acid Derivatives. (Chiba Univ.) MINO, Takashi; YOSHIZAWA, Eri; ABE, Taichi; HIRAI, Kiminori; SAKAMOTO, Masami
- 3PA-142** Palladium catalyzed oxidative intramolecular ring-closing reaction of diaryl sulfones leading to dibenzothiophene derivatives (Chem. Res. Lab. TokyoTech) GOTO, Toshinori; TANIGUCHI, Yuki
- 3PA-143** Development of Palladium-catalyzed Triallylsilylation of Aryl Halides (Nara National College of Technology) KAMEI, Toshiyuki; TANAKA, Tomohiro; MATSUURA, Arisa; SHIMADA, Toyoshi

## Pt

- 3PA-144** Platinum Film Catalyzed Oxidation of Alcohols (Faculty of Chemistry, Materials and Bioengineering, Kansai University) YANO, Hiroki; SUGANUMA, Takashi; KAWASAKI, Hideya; OBORA, Yasushi

## Cu

- 3PA-145** Design and synthesis of functionalized azolium salt derived from serine ester for Cu-catalyzed asymmetric conjugate addition reaction of acyclic enone (Kansai Univ.) KONDO, Jyunko; SAKAGUCHI, Satoshi

## Ag

- 3PA-146** Asymmetric Aldol Reaction Catalyzed by Chiral Phosphine-Silver Complex (Chiba University) MIYKAE, Ryoji; YOSHIDA, Kazuhiro; YANAGISAWA, Akira
- 3PA-147** Enantioselective Nitroso Aldol Reaction Catalyzed by a Chiral Phosphine-Silver Complex (Chiba University) RIN, Yokukin; YOSHIDA, Kazuhiro; YANAGISAWA, Akira

## Au

- 3PA-148** Synthesis and Catalytic Activity of Carbene-Gold Core Dendrimer (AIST, School of Science and Technology, Meiji University) FUJITA, Ken-ichi; INOUE, Kensuke; TSUCHIMOTO, Teruhisa; YASUDA, Hiroyuki

## Si

- 3PA-149** Preparation of crown-ether derivative containing H<sub>8</sub>-BINOL skeleton and the application in optical resolution of amino acids. (Nara National College of Technology; DAICEL CORPORATION, CPI Company) HIRATA, Shunsuke; NISHIHARA, Keiji; SHIMADA, Toyoshi
- 3PA-150** A new transformation of alcohols and amines to silane coupling agents (Nara National College of Technology) KAMON, Yuuki; KAMEI, Toshiyuki; SHIMADA, Toyoshi
- 3PA-151** Silyl Triflate-promoted Mannich-type Reaction between *N*-Sulfonylimine and Silyl Enol Ethers (Shimane Univ.) SATOU, Kouki; NISHIGAICHI, Yutaka

## Sn

- 3PA-152** Asymmetric Protonation of Alkenyl Trihaloacetates Using Chiral Tin Catalysts (Chiba University) SUGITA, Takuya; YOSIDA, Kazuhiro; YANAGISAWA, Akira

## Sunday, March 24, AM

(12 : 30 ~ 14 : 00)

Organic Chemistry -Reaction and Synthesis-  
Aliphatic and Alicyclic Compounds

- 3PB-001** Reactions of Tetraarylbutatrienes with Tetraynoethene :Formation of Intriguing Cyclic Compounds (Univ. of Tokushima) UETA, Shoko; NISHIUCHI, Masaki; KAWAMURA, Yasuhiko
- 3PB-002** Synthesis and Reactivity of Tetraarylpentatetraene (Univ. of Tokushima) HASHIZUME, Hirokazu; NISHIUCHI, Masaki; KAWAMURA, Yasuhiko
- 3PB-003** Asymmetric Hydrophosphonylation of  $\alpha$ -Ketoesters Catalyzed by the Dinuclear Zn-Bisamidinate Complex (Rikkyo Univ.) KAIZU, Keisuke; YAMANAKA, Masahiro
- 3PB-004** Theoretical Study on Asymmetric Synthesis of Tetrahydroquinoline Derivatives by Chiral Phosphoric Acid Catalyzed Intramolecular Redox Reaction (Rikkyo Univ.) NAGASAWA, Yuuki; YAMANAKA, Masahiro
- 3PB-005** Polystyrene-supported TBD catalyzed ring-opening of *N*-tosylaziridines with silylated nucleophiles (Ibaraki University) HARADA, Takeru; MATSUKAWA, Satoru
- 3PB-006** Synthesis of Cyclic Carbonates from Epoxides and Carbon Dioxide Using Quaternary Ammonium Hydroxide as Organocatalyst (Okayama University) EMA, Tadashi; FUKUHARA, Kazuki; SAKAI, Takashi
- 3PB-007** Palladium catalyzed allylation by employing *N,N*-bis(diphenylphosphino)amine ligand (Department of Chemistry, Okayama Univ. of Science) KUZE, Hideto; YAMADA, Haruo
- 3PB-008** Claisen condensation and Aldol-type addition of vinyl esters utilizing TiCl<sub>4</sub>-amine reagent. (81/180) (Department of chemistry, school of Science and technology, Kwansai Gakuin Univ.) ITO, Yutarou; KOBAYASHI, Misaki; TANABE, Yoo
- 3PB-009** Study of Metal-free Claisen-type-condensation Reaction using Carboxylic acids and/or Carboxylic acid chlorides (Department of Chemistry, School of Science and Technology, Kwansai Gakuin University) MASAKI, Masae; YAMAMOTO, Ayumu; TANABE, Yoo
- 3PB-010** Catalytic Enantioselective Synthesis of Chiral Secondary Allylic Alcohols Starting from Bromoalkenes and Aldehydes (Kyoto Institute of Technology) OHMURA, Taku; HARADA, Toshiro
- 3PB-011** Catalytic Enantioselective Alkylation of  $\alpha, \beta$ -Unsaturated Aldehydes by Using Alkylzinc Halide Reagents (Kyoto Institute of Technology) HAYASHI, Yasuki; HARADA, Toshiro
- 3PB-012** Development of the asymmetric aldol reaction with organocatalysts (Kochi Univ.) SASAOKA, Ai; KANENO, Daisuke

- 3PB-013** Radical Addition of Alkyl Iodide to Acetaldehyde using Triethylborane (Univ. of Osaka Prefecture) KAWAMOTO, Takuji; NISHIDA, Yasunori; RYU, Ilhyong
- 3PB-014** Regioselective C-C bond formation of ketones with olefins in the presence of decatungstate as a photocatalyst (Graduate School of Science, Osaka Prefecture University) OKADA, Megumi; RYU, Ilhyong
- 3PB-015** Syntheses of  $\gamma$ ,  $\delta$ -Unsaturated Amino Esters Utilizing an Umpolung Reaction to  $\alpha$ -Imino Allyl Esters Followed by Claisen Rearrangement (Mie University) MIZOTA, Isao; MIWA, Yumi; SHIMIZU, Makoto
- 3PB-016** Umpolung Reaction of  $\alpha$ -Iminothioester with Various Nucleophiles (Mie University) UEDA, Chihiro; YUN, Tesong; MIZOTA, Isao; SHIMIZU, Makoto
- 3PB-017** Tandem Reaction Using Umpolung Reaction of  $\alpha$ -Imino Ester Having a Cyclopropyl Group (Mie University) SANO, Takanori; MORIMOTO, Takayoshi; MIZOTA, Isao; SHIMIZU, Makoto
- 3PB-018** Diastereoselective Mannich Reaction Using Umpolung Reaction and Oxidation of  $\alpha$ -Imino Esters. (Mie University) MIZOTA, Isao; NAKAJIMA, Yuji; SHIMIZU, Makoto
- 3PB-019** Regioselective Synthesis of 4-Bromoacetanilide Derivatives (Yamaguchi University; Tosoh Organic Chemical Co. Ltd.) YAMAMOTO, Hidetoshi; HOSOMITSU, Nozomi; TAKAO, Yuko; YAMANOUCHI, Katsushige; KOMEDA, Masahiro; SUMIMOTO, Michinori; HORI, Kenji; MIYATA, Takuya; NAGASAKI, Noritaka
- 3PB-020** Diastereoselective imino-pinacol coupling reaction in the presence of Mg(0) and Grignard reagent (Faculty of Textile Science and Technology, Shinshu University) KITAJIMA, Kai; FUJIMOTO, Tetsuya
- 3PB-021** Catalytic Activity of Cyclic Isothioureas for Acylation (Kanagawa University, Department of Material and Life Chemistry) IBE, Kouta; YONEYAMA, Aya; KATSUMATA, Hitomi; OKAMOTO, Sentaro
- 3PB-022** Synthesis of A-Ring Units for Vitamin D and Its Analogues (Kanagawa University, Department of Material and Life Chemistry) TAKAGI, Hiromasa; IBE, Kouta; TAKEKOSHI, Naoto; OKAMOTO, Sentaro
- 3PB-023** Formation of Thioamidium Salts by Iodine-induced Cyclization Reaction (Graduate School of Engineering, Chiba University) MATSUMOTO, Shoji; TAKADA, Daiki; KAGEYAMA, Hirokazu; SHIBATA, Hiroyuki; AKAZOME, Motohiro
- 3PB-024** Novel  $\alpha$ -sulfonyloxylation of Ketones with I<sub>2</sub> and Oxone (Chiba Univ. Graduate School of Science) KIKUI, Hiroki; MORIYAMA, Katsuhiko; TOGO, Hideo
- 3PB-025** Synthesis and Application of Indolyl(aryl)iodonium imides (Chiba Univ., Graduate School of Science) ISHIDA, Kazuma; MORIYAMA, Katsuhiko; TOGO, Hideo
- 3PB-026** Facile N-arylation of sulfonamides with diaryliodonium salts (Chiba Univ.) KAKINUMA, Yoji; MORIYAMA, Katsuhiko; TOGO, Hideo
- 3PB-027** Re-examination of the environmentally harmonic oxidation of alkyl halides with N-methylmorpholine-N-oxide (Chiba Univ., Graduate School of Science) TABATA, Masayuki; MORIYAMA, Katsuhiko; TOUGOU, Hideo
- 3PB-028** Study of the one-pot transformation of aryl and alkyl bromides to the N,N-dimethylamides (Chiba Univ.; Reaction Organic Chemistry) ISHII, Genki; MORIYAMA, Katsuhiko; TOGO, Hideo
- 3PB-029** The oxidation of 2-benzoylcycloalkanone copper(II) complexes (Tokyo Gakugei Univ.) YOSHIIHARA, Nobutoshi; MINAI, Yoshihiro
- 3PB-030** Synthesis of triangular copper(II) complexes of 1,4-bis(3-phenyl-1,3-propanedion)benzene (Tokyo Gakugei Univ.) YOSHIIHARA, Nobutoshi; TAKASAWA, Hiroaki
- 3PB-031** Synthesis of Hydroperoxides using Hydrogen Peroxide and Its Application to Long-Chain Dicarboxylic Acids (Grad. School of Engineering Tokyo Denki Univ.) WATANABE, Risa; SHINOZAKI, Hiraku
- 3PB-032** Fluorination of Cycloalkanones Having an  $\alpha$ -Substituent (Toho Univ.) ISHII, Sateo; MINAMI, Yukari; WATANABE, Soichiro
- 3PB-033** Synthesis of a Dye whose UV Absorption Shifts red after Cross Coupling Reaction in Aqueous Media. (Toho Univ.) AIDA, Reina; WATANABE, Soichiro
- 3PB-034** Synthesis of mono-esters via retro-claisen reaction by with aliphatic diols (BNRC, Toyo Univ.) AIKAWA, Shunichi; TSUZAWA, Hideki; YOSHIDA, Yasuhiko
- 3PB-035** Esterification without Dehydrating System Using Sulfonated Polypyrrene (Nippon Dental Univ.) TANEMURA, Kiyoshi; SUZUKI, Tsuneo
- 3PB-036** Preparation of  $\gamma$ -zirconium phosphate immobilized hydrophobic functional group and Its used esterification reaction in water (Part 2) (Coll. Ind. Tech., Nihon Univ.) SHIMIZU, Kanaho; FUJII, Takayoshi
- 3PB-037** Synthesis of  $\alpha$ -functionalized amide using Silica Gel supported Sodium Hydrogen Sulfate (College of Science and Technology, NIHON Univ.) HAYAKAWA, Mamiko; KOBAYASHI, Toshiya; AOYAMA, Tadashi; TAKIDO, Toshio; KODOMARI, Mitsuo
- 3PB-038** Improvement of the Synthetic Route for New Calixarene Ligands Bearing Xantphos Moiety and Their Application to Hydroformylation (Department of Applied Molecular Chemistry, College of Industrial Technology, Nihon Univ.) GOTO, Miyuki; SHIMIZU, Shoichi; ICHIKAWA, Hayato
- 3PB-039** Syntheses of Quinolineoxazoline and Pyridinebisoxazoline with Ammonium Tribromide (Dept. of Chemistry, Fukushima Medical Univ.) SAYAMA, Shinsei
- 3PB-040** Synthesis of trifluoromethyl sulfinate using CF<sub>3</sub>SO<sub>2</sub>Na (Nagoya Institute of Technology) KAMO, Tomohiro; SUZUKI, Satoru; TOKUNAGA, Etsuko; SIBATA, Norio
- 3PB-041** Synthesis of Highly Enantioselective  $\beta$  Aminophosphonic Acid Derivatives Catalyzed by Novel Chiral Zinc(II) Complexes (Nagoya Institute of Technology) SHIOMI, Noriyuki; HAYASHI, Masashi; NAKAMURA, Shuichi
- 3PB-042** One-step synthesis of (1-iodovinyl)arenes from TMS-ethynylarenes with in situ generated HI (Ryukoku Univ.) SATO, H. Akihiro; MIHARA, Shigenori; OHASHI, Kazuhiro; IWASAWA, Tetsuo
- 3PB-043** Application and synthesis of chiral surfactant (Faculty of Pharmaceutical Science, Hiroshima International Univ.) KODAMA, Yoritatsu
- 3PB-044** Optical resolution of 1,1'-binaphthalene-2,2'-dicarboxylic acid by the diastereomer method: Control of the deposited diastereomer by solvent permittivity and study of its molecular mechanism (Graduate School of Engineering, Tohoku University) KITAMOTO, Yuichi; MOROHASHI, Naoya; HATTORI, Tetsutaro

## Organic Chemistry -Reaction and Synthesis-Aromatic Compounds

- 3PB-045** Reductive synthesis of azobenzene derivatives using an indium catalyst and its application (Tokyo Univ. of Science, Fac. of Sci. and Tech.) SAKAI, Norio; ANAI, Satsuki; IKEDA, Reiko; KONAKAHARA, Takeo
- 3PB-046** Investigation of practical reaction conditions on iron-catalyzed cross-coupling reactions (Industrial Technology Center of Wakayama Prefecture) TANAKA, Yoshie; MORI, Hajime; MIYAKEI, Yasuhito
- 3PB-047** Selective halogenation synthesis of para substitution aniline derivative by using copper complex (Tokyo Gakugei Univ.) YOSHIIHARA, Nobutoshi; TOI, Hiroyuki
- 3PB-048** Bisarylation of tetrabromobiazulene and investigation of intramolecular cyclization (Ehime Univ.; Yamaguchi Univ.) KIKUCHI, Takashi; NAKAE, Takahiro; MORI, Shigeki; OKUJIMA, Tetsuo; UNO, Hidemitsu; MURAFUJI, Toshihiro
- 3PB-049** Preparation of  $\gamma$ -Zirconium Phosphate-supported Palladium Nanoparticles and Application to Suzuki Reaction (Coll. Ind. Tech., Nihon Univ.) IJIMA, Ryosuke; FUJII, Takayoshi
- 3PB-050** Reduction of aromatic compounds with noble metal catalysts added Al powder in water (Graduate School of Science and Engineering, Saga University) UMMEY, Rayhan; YAMATO, Takehiko
- 3PB-051** Withdrawn
- 3PB-052** Nitration in solid state using Mg(NO<sub>3</sub>)<sub>2</sub>-SiO<sub>2</sub> composite (Univ. of Miyazaki, Fuji Syllisai Chemical Co. Ltd) YAMAUCHI, Ayaka; MATSUMOTO, Tomoko; FUEDA, Yoshiyuki; SHIRAGAMI, Tsutomu; YASUDA, Masahide
- 3PB-053** Alkylation of aromatics from  $\alpha$ -alkyl- $\beta$ -diketone in the presence of acid catalyst (College of Science and Technology, NIHON Univ.) OGAWA, Tetsuya; NAKAJIMA, Erika; OGAWA, Sumire; AOYAMA, Tadashi; TAKIDO, Toshio; KODOMARI, Mitsuo
- 3PB-054** Synthesis of Carbocyclic Aromatic Compounds Using Ru-Catalyzed Ring-Closing Enyne Metathesis and C1 Homologation (Chiba Univ.) NISHII, Kana; KANO, Yuto; WADA, Shiro; YOSHIDA, Kazuhiro; YANAGISAWA, Akira
- 3PB-055** Diazo Coupling Reaction of Anthrone with Aromatic Diazonium Salts (Chubu Univ.) MORIKAWA, Seiya; KOUKETSU, Jugo; NIYOMURA, Osamu; ANDO, Fumio
- 3PB-056** Synthesis of 1,4-bis(4-hydroxyphenylazo)benzene (Faculty of Engineering, Soka University) UCHIDA, Nozomi; TAKESHIMA, Akihiro; KISHIMOTO, Hiroshi; ITO, Masato
- 3PB-057** Stereoselective Norrish Type II reaction of 2-alkoxyaromatic ketones in the presence of ammonium salts (Ochanomizu Univ; AIST) YAMADA, Shinji; IWAOKA, Azusa; TSUZUKI, Seiji
- 3PB-058** Synthesis of chlorophyll derivatives possessing a carboxy moiety (Ritsumeikan Univ.) TAMIAKI, Hitoshi; TSUZUKI, Shinsaku; ZOUTA, Taisuke; HAGIO, Norihisa; KINOSHITA, Yusuke
- 3PB-059** Formation of Phenanthrene Derivatives via Elimination of Methoxy Group by Photoirradiation (Fac. of Systems Engineering, Wakayama Univ.) IKEDA, Yuto; OSUGA, Hideji; SAKAMOTO, Hidefumi
- 3PB-060** Synthesis of new water-soluble benzoporphyrins for Photodynamic Therapy to developing photosensitizer (Univ. of Utsunomiya; supermolecule of Ito Group Co. Ltd) FURUYA, Masaru; SAITO, Yuki; HORIUCHI, Hiroaki; OBA, Toru; ITO, Satoshi
- 3PB-061** Synthesis and Biological Activity of Water-soluble Azulenes (Univ. of Josai Science; Univ. of Meikai Dentistry) WAKABAYASHI, Hidetugu; UEKI, Jun-ichi; SAKAGAMI, Hiroshi
- 3PB-062** Color Reaction of Azulenes Having Azathiocrown Ether toward Silver Ion (Suzuka University of Medical Science, Faculty of Health Science) WAKABAYASHI, Shigeharu; UCHIDA, Miyuki; TANAKA, Rika
- 3PB-063** The Vilsmeier reaction of N,N-dimethyltoluidines under microwave irradiation (The Nippon Dental Univ.) SUZUKI, Tsuneo; TANEMURA, Kiyoshi
- 3PB-064** Salt effect on the formation of HMF from fructose in DMSO using microwave heating. (Wakayama National College of Technology) IWAKI, Azusa; TAKAGI, Koichi; NOMURA, Eisaku
- 3PB-065** Synthesis of neolignan by dimerization of ferulic acid from rice bran.

- (Wakayama National College of Technology) KAKIMOTO, Yasuhiro; MIYAKE, Yasuhiro; MORI, Hajime; NOMURA, Eisaku
- 3PB-066** Study on the Synthesis of Soluble Polycyclic Aromatic Hydrocarbons Having 15 Aromatic Rings (Toho Univ.) YOSHIDA, Satoshi; TOYOSHIMA, Takuya; TOKIZAKI, Tomoyuki; WATANABE, Soichiro
- 3PB-067** Study on the Synthesis of a Macrocyclic Compound Having Two Coordination Sites for Supramolecular Assembly (Toho Univ.) TOKIZAKI, Tomoyuki; TOYOSHIMA, Takuya; YOSHIDA, Satoshi; WATANABE, Soichiro
- 3PB-068** Study on the synthesis of planar chiral (1,10)anthracenophane derivatives (Department of Chemistry, School of Science and Technology, Kwansai Gakuin University) HAMURA, Toshiyuki; MATSUOKA, Suguru; IGAWA, Kazunobu; TOMOOKA, Katsuhiko
- 3PB-069** Synthesis of pi conjugation expanded porphyrin oligomer connected with bicyclo[2.2.2]octadiene bridge (Faculty of Science, Ehime University; Integrated Center for Sciences, Ehime University) YOSHINOUCI, Tomoko; MORI, Shigeki; NAKAE, Takahiro; OKUJIMA, Tetsuo; UNO, Hidemitsu
- 3PB-070** Synthesis of diporphyrin with chiral linkage (Faculty of Science, Ehime Univ.; Integrated Center for Sciences, Ehime Univ.) KAWAMOTO, Naoki; MORI, Shigeki; NAKAE, Takahiro; OKUJIMA, Tetsuo; UNO, Hidemitsu
- 3PB-071** Synthesis of tetrabenzoporphyrins bearing peripheral groups (Faculty of science, Ehime University) MIKAMI, Akihiro; MORI, Shigeki; NAKAE, Takahiro; UNO, Hidemitsu; OKUJIMA, Tetsuo
- 3PB-072** Synthesis of novel porphyrin dimer with two bicyclic moieties (Graduate School of Science and Engineering, Ehime Univ.; Integrated Center for Science, Ehime Univ.) YAMAMOTO, Shogo; MORI, Shigeki; NAKAE, Takahiro; OKUJIMA, Tetsuo; UNO, Hidemitsu
- 3PB-073** Synthesis of a motif of chiral graphene nanoribbon (Ehime Univ.; Kyoto Univ.) SUGIMURA, Takuya; YANO, Maki; NAKAE, Takahiro; MORI, Shigeki; OKUJIMA, Tetsuo; UNO, Hidemitsu; SAKAGUTI, Hiroshi
- 3PB-074** Synthesis of halogenated phenacenes by AuCl-catalyst (Ehime Univ.; Kyoto Univ.) KITAHATA, Yoshiharu; OHNISHI, Ryuji; NAKAE, Takahiro; MORI, Shigeki; OKUJIMA, Tetsuo; UNO, Hidemitsu; SAKAGUCHI, Hiroshi
- 3PB-075** Substituted polynuclear aromatic compounds consisting of pyrene unit and their structural properties (Graduate School of Engineering, Kyushu Institute of Technology) NISHIZAWA, Yuki; MORIGUCHI, Tetsuji; TSUGE, Akihiko
- 3PB-076** Synthesis of new pyromellitic diimide-based macrocycles as structural units of tubular molecules (IMCE, Kyushu Univ., Grad. School Sciences, Kyushu Univ.) KITATAKA, Naoki; TAO, Keisuke; GOTO, Kenta; SHINMYOZU, Teruo
- 3PB-077** Synthesis of pyromellitic diimide-based macrocycles bearing connection unit, and development to the synthesize of  $\pi$ -conjugated tubular molecules (IMCE, Kyushu Univ., Grad. School Sciences, Kyushu Univ.) TAO, Keisuke; GOTO, Kenta; SHINMYOZU, Teruo
- 3PB-078** Development of the Synthetic Methods for Installing a Functional Group inside the Ring of Oxa-heterohelices (Kumamoto Univ.; Kyushu Univ.) IRIE, Ryo; URAKAWA, Suguru; MOROKUMA, Toru; FURUSAWA, Masaki; IMAHORI, Tatsushi; IGAWA, Kazunobu; TOMOOKA, Katsuhiko
- 3PB-079** Studies on the Synthesis of Aza-heterohelices Including Pyridine Substructures (Kumamoto Univ.; Kyushu Univ.) IRIE, Ryo; SHIGETA, Yusuke; FURUSAWA, Masaki; IMAHORI, Tatsushi; IGAWA, Kazunobu; TOMOOKA, Katsuhiko
- 3PB-080** Syntheses and physical properties of symmetric anthracene-thiophene oligomers derived from photo irradiation of its precursor (Graduate School of Materials Science, Nara Institute of Science and Technology, CREST, JST) IKEDA, Shinya; SUGII, Shuhei; MOTOYAMA, Takao; NAKAYAMA, Ken-ichi; YAMADA, Hiroko
- 3PB-081** Chemical and electrochemical properties of dicarbocation compounds with two 3-guaiazulenyl groups (Kinki Univ.) MIYAGAWA, Keisuke; TAKEKUMA, Shin-ichi
- 3PB-082** A preparation and properties of [(E)-2-(3-guaiazulenyl)ethenyl]-(1-azulenyl)methylum hexafluorophosphate and [(E)-2-(3-guaiazulenyl)ethenyl]-(3-guaiazulenyl)methylum hexafluorophosphate (Kinki Univ.) TAKAMITSU, Tomoyuki; TAKEKUMA, Shin-ichi
- 3PB-083** Enantioselective [4+2] Cycloaddition Reaction Using Proline-Based Chiral Ionic Liquids Catalyst. (Oita Univ.) HIRANO, Kazuya; NOBUOKA, Kaoru; KITAOKA, Satoshi; ISHIKAWA, Yuichi
- 3PB-084** Asymmetric conjugate addition of cyclic hydrazine to N-(E)-cinnamoyl-2,10-camphorsultam (Muroran Institute of Technology; Hokkaido Research Organization; Kogakuin Univ.) HIRAMA, Koudai; KOYAMA, Hiroyuki; HIRAMA, Masafumi; SATO, Takuya; TAKADA, Junko; SEKI, Chigusa; NAKANO, Hiroto; MATSUYAMA, Haruo
- 3PB-085** Asymmetric Synthesis of Chiral Bisquinoline-type Ligands (Kumamoto Univ.; Kyushu Univ.) IRIE, Ryo; TAKEDOMI, Yuya; KAWATSU, Takahiro; IMAHORI, Tatsushi; IGAWA, Kazunobu; TOMOOKA, Katsuhiko
- 3PB-086** Synthesis of helical amide derivatives by the reaction of quinones with amines and its optical resolution (Graduate School of Engineering, Utsunomiya Univ.) KURIHARA, Takashi; KIMURA, Takao; KARIKOMI, Michinori
- 3PB-087** Enantioselective Diels-Alder reactions of 1,2-dihydropyridines using a chiral amino alcohol organocatalyst (Muroran Institute of Technology; Tohoku University Research and Analytical Center for Giant Molecule; Tohoku Pharmaceutical University) KOHARI, Yoshihiro; KWON, Eunsang; OKUYAMA, Yuko; SEKI, Chigusa; UWAI, Koji; NAKANO, Hiroto
- 3PB-088** Enantioselective Diels-Alder reactions of 3-hydroxy-2-pyridones using a chiral amino alcohol organocatalyst (Muroran Institute of Technology; Tohoku University Research and Analytical Center for Giant Molecule; Tohoku Pharmaceutical University) TAKAHASHI, Toshihisa; KOHARI, Yoshihiro; KWON, Eunsang; OKUYAMA, Yuko; NAKANO, Hiroto
- 3PB-089** Enantioselective Diels-Alder reactions of anthrones with maleimides using a chiral amino alcohol derivative as an organocatalyst (Muroran Institute of Technology) OHE, Kouki; NARITA, Shinichi; KOHARI, Yoshihiro; NAKANO, Hiroto
- 3PB-090** Synthesis of Chiral Porphyrin Catalyst Intercalated into ds DNA (Oita University) KITAGAWA, Eri; NOBUOKA, Kaoru; KITAOKA, Satoshi; ISHIKAWA, Yuichi
- 3PB-091** Intramolecular oxidative coupling of reticuline derivatives regulated sterically by the introduction of a new ring system (Kanagawa Univ. Dept. of Chemistry) SUGIYAMA, Kayo; WATANABE, Nobuko; IJUIN, Hisako; MATSUMOTO, Masakatsu
- 3PB-092** *pai* facial selectivity in the 1,3-dipolar cycloaddition of 5-methyl-5-phenylcyclopentadiene (Department of Chemistry, Faculty of Engineering, Gifu university) MIZUNO, Yousuke; ISHIDA, Masaru
- 3PB-093** Synthesis and Properties of 2,3-Dicyanopyrazine Derivatives as Acceptor Units (Fac. of Systems Engineering, Wakayama Univ.) YAMAMOTO, Shinpei; OSUGA, Hideji; TSUJI, Takuya; SAKAMOTO, Hidefumi
- 3PB-094** Photochemical Reactions of 1,3-diphenyltetrazolium-5-thiolates with a substituent at the ortho position (Graduate School of Engineering, Nagoya Institute of Technology) DOI, Akihiro; YAMASHITA, Yukinobu; HIRASHITA, Tsunehisa; ARAKI, Shuki
- 3PB-095** Efficient synthesis of trifluoromethyl substituted phthacyanines (Nagoya Institute of Technology) TANAKA, Kenta; IIDA, Norihito; TOKUNAGA, Etsuko; SHIBATA, Norio
- 3PB-096** Synthesis and Chemical Properties of Pyrimidine-annulated 1-Azaazulene derivatives (Fukushima University, Faculty of Symbiosis Systems Science) ITO, Takashi; TIGIRA, Satoshi; TAKAYASU, Tohru
- 3PB-097** Construction of the indolizine framework via reaction of pyridinium dicyanomethylides and arynes. (Fac. of Education and Regional Studies, Univ. of Fukui) SETO, Yukihiko; MINEDA, Maki; KIMURA, Ryosuke; AOYAMA, Kinuyo; ASAHARA, Masahiro
- 3PB-098** Synthesis of new cage type Triazinophane which has sulfide in side chains (College of Science and Technology, NIHON Univ.) TAJIMA, Kengo; AOYAMA, Tadashi; TAKIDO, Toshio; KODOMARI, Mitsuo
- 3PB-099** Cyclization Reaction of Ethentricarboxylate Esters (Nara Univ. of Education; Grad. Sch. Mat. Sci., NAIST) YAMAZAKI, Shoko; MAITOKO, Yuhki; UEDA, Kohta; KAKIUCHI, Kiyomi
- 3PB-100** One-pot multi-component synthesis of fused-ring pyridine and pyrimidine derivatives using cyclic enamines. (Tokyo Univ. of Science) OOMAGARI, Syouta; IKEDA, Reiko; SAKAI, Norio; KONAKAHARA, Takeo
- 3PB-101** Synthesis of 3-alkoxybenzo[*c*]thiophen-1(3*H*)-one derivatives (Engineering, Tottori University) KURODA, Minami; KANBE, Yuuki; KOBAYASHI, Kazuhiro
- 3PB-102** A facile synthesis of 7*H*-thiopyrano[2,3-*d*]pyrimidines starting with DCSMP (Graduate School of Eng., Tottori Univ.; IHARA CHEMICAL INDUSTRY CO. LTD.) IMAOKA, Ayumi; SUZUKI, Teruhiko; KOBAYASHI, Kazuhiro; HIYOSHI, Hidetaka; UMEZU, Kazuo
- 3PB-103** Synthesis of 6-amino-3,4-dihydro-2*H*-pyrimido[2,1-*a*]isoquinoline-7-carbonitriles and related derivatives (Engineering, Tottori University) EZAKI, Kosuke; KOMATSU, Toshihide; KOBAYASHI, Kazuhiro
- 3PB-104** Synthesis of 10-substituted benzo[*b*][1,8]naphthyridin-5(10*H*)-ones (Graduate School of Eng., Tottori University) YUBA, Shohei; KOMATSU, Toshihide; KOBAYASHI, Kazuhiro
- 3PB-105** Synthesis of 2,3-dihydro-1*H*-isoindole-1-thione derivatives (Graduate School of Engineering, Tottori University) MATSUMOTO, Naoki; MATSUMOTO, Kouta; YOKOI, Yuki; KOBAYASHI, Kazuhiro
- 3PB-106** Intramolecular Bromo-oxygenation of Alkenylcarboxylic acids and Alkenylalcohols via Oxidative Umpolung of Alkali Metal Bromides. (Chiba Univ.) IZUMISAWA, Yuhta; MORIYAMA, Katsuhiko; TOGO, Hideo
- 3PB-107** Cyclization reaction of the 1,3-bis(ethynyl)-2-isocyanides with the sodium salt (Chiba Institute of Technology) MURAKAMI, Shinya; UTHIDA, Hiroyuki; SHIMASAKI, Toshiaki; ITOH, Shuhei; SHIBATA, Mitsuhiko
- 3PB-108** Samarium-mediated Radical Coupling of Isatin Derivatives with Aldehydes (Faculty of Engineering, Shizuoka University) TAKAHASHI, Masaki; SUZUKI, Kosuke; MURATA, Yusuke; SENGOKU, Tetsuya; YODA, Hidemi
- 3PB-109** Convenient Syntheses of Novel Fluorine-Containing Benzodiazep-

- pines Using Bistrifluoroacetylated Butadienes as Building Blocks (Kobe University) YOSHIOKA, Kotaro; HATAKENAKA, Mizuki; OTA, Norio; OKADA, Etsuji
- 3PB-110** Synthesis of Novel Fluorine-Containing Benzonaphthridines by the Cyclization of 2-Methoxy-4-propargylamino-3-trifluoroacetylquinoline with Various Thiols and Alcohols (Kobe University) ANDO, Yoshimasa; HATAKENAKA, Mizuki; OKADA, Etsuji
- 3PB-111** Facile Syntheses of Novel Fluorine-Containing Pyrroloquinolines by the Nucleophilic N-N Exchange Reaction of 4-Dimethylamino-2-methoxy-3-trifluoroacetylquinoline with Amino Acid Derivatives (Kobe University) KURATANI, Masayuki; HATAKENAKA, Mizuki; OKADA, Etsuji
- 3PB-112** Synthesis of 3-Alkynyl-1-arylimidazo[1,5-*d*]pyridines via Sequential C-H Bond Direct Functionalizations (Department of Chemistry, Faculty of Engineering, Gifu University) SHIRAKI, Keita; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 3PB-113** Synthesis of Novel Fluorine-Containing Benzonaphthridines by the Cyclization of 2-Methoxy-4-propargylamino-3-trifluoroacetylquinoline with Various Active Methylene Compounds (Kobe University) HATAKENAKA, Mizuki; ANDO, Yoshimasa; KONDO, Tetsuya; OKADA, Etsuji
- 3PB-114** A Convenient Synthesis of Novel Fluorine-Containing Indazolindazoles and Isoxazolobenzindazoles (Kobe University) HATAKENAKA, Mizuki; ITOI, Yuichi; OKADA, Etsuji
- 3PB-115** Photochemical Reactions of 1-Alkyl-5-nitrosatins with alkenes (Aichi institute of technology) UEMURA, Kunihito; TATUGI, Jiro
- 3PB-116** Synthesis and Photochemical Reactions of 1-Alkyl-4-chloro-7-azaisatins (AIT) KIRIYAMA, Yutaro; TATUGI, Jiro
- 3PB-117** Diene-yne Metathesis Reaction for Synthesis of Sila-bicycles (Univ. of Kanagawa; Kabe lab.) AMAKASU, Toru; KABE, Yoshio
- 3PB-118** Acid chloride- and anhydride-catalyzed effective Beckmann rearrangement of cyclohexanone oxime (Yamaguchi University; Ube Industries, Ltd.) YAMAMOTO, Hidetoshi; OZAKI, Ayana; FURUTA, Takahiro; KOMEDA, Masahiro; SUMIMOTO, Michinori; HORI, Kenji; SUGIMOTO, Tsunemi
- 3PB-119** The convenient synthesis of novel 8-membered heterocyclic compounds (FIRST, Konan Univ.) MURASHIMA, Takashi; IKEDA, Sou; MIYAMOTO, Yuki; ISHIDA, Ryuma; ODE, Kentaro
- 3PB-120** Thermal Reactions of 2-Aminothiazoles with Maleimides in Solution and Solvent-free Conditions (Grad. Sch. Sci., Eng., Kagoshima Univ.) HATSUSHI, Miho; SHIMO, Tetsuro
- 3PB-121** Convenient Synthesis of Oligothiophenes (Saga Univ.) SHIRAKI, Ryosuke; KITAMURA, Tsugio
- 3PB-122** Synthesis of Quinoline Alkalid Derivatives Using Mn(III)-Based Reaction of 4-Hydroxyquinolin-2(1*H*)-ones (Kumamoto Univ.; Grad. School Sci. & Tec.; Dept. Chem.) NISHINO, Hiroshi
- 3PB-123** Influence on  $\pi$ -Spacing Groups of Donor- $\pi$ -Acceptor Dyes Containing Difluoroboron Diketones (Nagoya Institute of Technology) OSHIMA, Asami; MIZUNO, Yousuke; ONO, Katsuhiko
- 3PB-124** Synthesis and Properties of Diaminoanthraquinone Derivatives with Difluoroboron Chelation (Nagoya Institute of Technology) YAMADA, Hiroyuki; ONO, Katsuhiko
- 3PB-125** Synthetic studies on fluorescent polyarenes using 2-acetylfluorene as starting materials (Interdisciplinary Faculty of Science and Engineering, Shimane Univ.) MOCHIZUKI, Risa; TAKAHASHI, Kazuhumi
- 3PB-126** Synthesis, properties and thin films of *N*-acceptor linking porphyrin derivatives (Osaka Municipal Tech. Res. Inst.; Kobe Univ.) TAKAO, Yoko; MATSUMOTO, Fukashi; MORIWAKI, Kazuyuki; HIDA, Koichi; MIZUNO, Takumi; OHNO, Toshinobu; SETSUNE, Jun-ichiro
- 3PB-127** Synthesis and Properties of 2,6-Diphenylthieno[2,3-*d*:5,4-*d'*]bisthiazole (Department of Chemistry, Faculty of Engineering, Gifu University) FUTAMURA, Kimitaka; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- ## Analytical Chemistry
- 3PB-129** Ion-recognition of Fluorescence Sensor Based on Carbazolophane (Osaka Kyoiku University) KUBONO, Koji; KUSUMOTO, Nao; TANI, Keita; YOKOI, Kunihiko
- 3PB-130** Development of Ion Sensor Based on Piperazine Derivative with Quinoline as a Fluorophore (Osaka Kyoiku University) TAKEDA, Yoshitaka; KUBONO, Koji; YOKOI, Kunihiko
- 3PB-131** Anion Recognition of Fluorescent Zn(II) Complex with Mixed Ligands Having Hydrogen-bonding Site. (Osaka Kyoiku University; Osaka Municipal Technical Research Institute) TSUJIMOTO, Junichi; KUBONO, Koji; KASHIWAGI, Yukiyasu; TAKAHASHI, Masanari; YOKOI, Kunihiko
- 3PB-132** Micro analysis for iron using ICP-MS equipped with an improved ETV system (Industrial Technology Center of Wakayama Prefecture) OSAKI, Shusuke; MIYAKE, Yasuhito; KIMURA, Miwako; MORI, Megumi; MATSUMOTO, Akihiro; ITO, Osamu
- 3PB-133** Long-Distance Enhancement in Surface-Enhanced Fluorescence and Raman Scattering by Ag Nanoparticles protected with Anisotropic Silica Layer (Kyoto Univ.) TAKAYOSHI, Jouji; KAWASAKI, Mitsuo
- 3PB-134** Investigation of the nuclear wave packet motion by the wavelength-resolved rapid-scanning femtosecond degenerate-four-wave-mixing system (Graduate School of Engineering Science and Center for Quantum Materials Science) MURAMATSU, Masayasu; TSUMORI, Hiroki; NAGASAWA, Yutaka; MIYASAKA, Hiroshi
- 3PB-135** High-sensitive fluorescence detection of organic molecules based on plasmon-enhanced polymer trapping (Hokkaido university) SUGO, Daiki; TOSHIMITSU, Mariko; SHOJI, Tatsuya; KITAMURA, Noboru; NAGASAWA, Fumika; MURAKOSHI, Kei; TSUBOI, Yasuyuki
- 3PB-136** Spectral analysis of the double-peak structure in the CK-XANES of carbon-contained materials (Univ. Hyogo) NISHITANI, Yasushi; MURAMATSU, Yasuji
- 3PB-137** Inkjet-printed paper-based colorimetric gas sensor array for discrimination of volatile amines (Keio Univ.) SOGA, Tamaki; JIMBO, Yusuke; CITTERIO, Daniel; SUZUKI, Koji
- 3PB-138** Polymer Micelle Template-Directed Self-Assembly of Gold Nanoparticle Arrays for Local Surface Plasmon Resonance Sensors (Kochi University) IWAIZAKO, Tasaku; HADANO, Shingo; WATANABE, Shigeru
- 3PB-139** Chemical Sensing Photonic Crystal(2)Development of Photonic Crystal Fabrication Process Using of Plasticized PVC for Ion Sensing (Grad. Sch. Eng., Osaka Pref. Univ.) AKI, Shoma; HISAMOTO, Hideaki; ENDO, Tatsuhiro
- 3PB-140** Development of novel sensing mechanism used peptides immobilized photonic crystal for urokinase activity measurement (Grad. Sch. Eng., Osaka Pref. Univ.) HASHIMOTO, Wakana; HISAMOTO, Hideaki; ENDO, Tatsuhiro
- 3PB-141** Capillary-Assembled Microchip-3rd Generation (CAS-Chip-3G)(2): Fabrication of the multi-detection chip for simultaneous acquisition of the standard addition method data (Osaka Pref. Univ.) KAWABATA, Daisuke; HENARES, Terence G.; FUNANO, Shun-ichi; ENDO, Tatsuhiro; HISAMOTO, Hideaki
- 3PB-142** Capillary-Assembled Microchip-3rd Generation (CAS-Chip-3G)(3): Fundamental Investigation on the Multi Sensing by using Flatbed Scanner (Osaka Pref. Univ.) KUBO, Shohei; HENARES, Terence G.; FUNANO, Shun-ichi; ENDO, Tatsuhiro; HISAMOTO, Hideaki
- 3PB-143** Development of Dry Reagent Paper-Coupled Electrophoresis Microchip Development of the multiple paper carrier cartridge (Osaka Pref. Univ.) MIYAHARA, Yuta; ENDO, Tatsuhiro; HISAMOTO, Hideaki
- 3PB-144** Selective determination of Thiadiazole by electrochemiluminescence (Pref. Univ. of Hiroshima) EGASHIRA, Naoyoshi; INOUE, Kentaro; MITOMA, Yoshiharu
- 3PB-145** Development of sampling method for mass spectrometry of nanoparticles dispersed in gas phase (Kansai Univ.; SHIMADZU) KUDOH, Satoshi; TANEIKE, Yasuhito; OKADA, Yoshiki
- 3PB-146** Analysis of Japanese lacquer film by using scanning atom probe (Dep. of Appl. Chem., Kanazawa Inst. of Technol.) TANIGUCHI, Masahiro; HAYASHI, Ryogo; NISHIKAWA, Osamu; OGAWA, Toshito
- 3PB-147** Application of the photoionization method to material analysis (SUMITOMO METAL TECHNOLOGY, INC.) WATANABE, Hiroko
- 3PB-148** Development of peptide array for comprehensive analysis of intracellular phosphorylation signals by mass spectrometry. (Kitakyushu National College of Technology; Faculty of Eng. Kyushu Univ.) DEGUCHI, Nao; SONODA, Tatsuhiko; YAMAMOTO, Kazuya; KATAYAMA, Yoshiki; YAMADA, Kenji
- 3PB-149** Novel Single cell extraction method combined with biomimetic cell surface modification and microfluidic device (Graduate School of Engineering, Nagoya Univ. ; FIRST Research Center for Innovative Nanobiodevice, Nagoya Univ.) HIBINO, Ayato; OKAMOTO, Yukihiko; TOKESHI, Manabu; BABA, Yoshinobu
- 3PB-150** Sensing of Metal Ions and Amino Acids with CdS Nanoparticles (Wakayama National College of Technology) KAWABATA, Toshihiro; HAYASHI, Junjiro
- 3PB-151** Molecular design, synthesis, and characterization of novel tripodal ligands as extractants for silver ions (Univ. of Keio) WATANABE, Takafumi; HIRUTA, Yuki; CITTERIO, Daniel; SUZUKI, Koji
- 3PB-152** Conjugate type Lewis base adsorbent for specific lanthanide ions separation and mechanism. (JAEA) AWUAL, Md.Rabiul; KOBAYASHI, Tohru; MIYAZAKI, Yuji; MOTOKAWA, Ryuhwi; SHIWAKU, Hideaki; SUZUKI, Shinichi; OKAMOTO, Yoshihiro; YAITA, Tsuyoshi
- 3PB-153** Acceleration of the Derivatization Reaction of Cr(III) with 4-(2-pyridylazo)-resorcinol by Microwave Heating. (Faculty of Engineering, University of Fukui) MIYAUTI, Tomoaki; KUWAHARA, Hideharu; HOSHINO, Hitoshi; TAKAHASHI, Toru
- 3PB-154** Selective separation of trace In in zinc samples by solid phase extraction using chelating cellulose (Meisei University) SUZUKI, Shinji; AKAMA, Mihumi; ITOH, Osamu
- 3PB-155** Development of the enhanced atomic force microscopy (AFM) cantilever using a cyclodextrin (CD)-core dendric molecule (ERATO JST; RIKEN ASI; Tokai Univ. Inst. Glycoscience) SUZUKI, Katsuhiko; ITO, Yikishige; KANIE, Osamu
- 3PB-156** Scanning Tunneling Microscope Designed for Studying *In Situ* at the Solid-Liquid Interface (5) (Fukushima-NCT; Hokuto Denko Corp.) HAGA, Masayuki; KATO, Satsuki; KOBAYASHI, Takuma; SUGANAMI, Hikaru; SATOH, Soichiro; FUKUSHIMA, Misato; SUZUKI, Hiromasa; KUROSAWA, Yuhki; SAKAMAKI, Kenji; MATSUDAIRA, Masahki
- 3PB-157** Development of test method for environmental purification performance of photocatalyst and applied materials by means of dissolved oxygen consumption. (National Institute of Advanced Industrial Science and

- Technology (AIST)) HIRAKAWA, Tsutomu; NISHIMOTO, Chifumi; TERAMOTO, Yoshiyuki; KIM, Hyun-ha; SANO, Taizo; NEGISHI, Nobuaki; TAKEUCHI, Koji
- 3PB-158** A new idea for measuring the total amount of radioactive materials randomly distributed in an opaque bottle (Nat. Insti. of Advanced Industrial Science & Technology) MISHIMA, Hiroshi
- 3PB-159** VOC-Adsorption and Desorption Properties of Charcoal and Steam Activated Charcoal Prepared from Cotton (Kanagawa Univ.) YAMADA, Saki; KATAOKA, Yusuke; SAITO, Keisuke; OKABE, Toshihiro; TSUGOSHI, Takahisa; NISHIMOTO, Yuku
- 3PB-160** Analytical study of Natural Whetstone used for Japanese Swords (Kanagawa Univ.) AOYANAGI, Yuki; YAMADA, Saki; TAKAOKA, Manami; NISHIMOTO, Yuku
- 3PB-161** VOC-Adsorption and Desorption Properties of Charcoal and Woodceramics Prepared from Carbonaceous Waste (Kanagawa Univ.) YAMADA, Saki; SHIRAIISHI, Takuto; OKABE, Toshihiro; TSUGOSHI, Takahisa; NISHIMOTO, Yuku
- 3PB-162** Study on effective extraction of Phosphorus-containing amino acid herbicides using Titania (Forensic Sci. Lab., Fukuoka Pref. Police H.Q.) MOHRI, Hiroyuki; TSUJITA, Akira; NAGASAKA, Asami; MATSUMOTO, Mitsushi; FUKUSHIMA, Sunao
- 3PB-163** Cloning and expression of Norovirus capsid protein in *Escherichia coli* (Industrial Research Institute of Shizuoka Prefecture) MUROFUSHI, Keita; OHTA, Toshiya
- 3PB-164** Glucose monitoring using Redox-Sensitive Green Fluorescent Protein (Tokyo Univ. of Tech.) TORIUMI, Hayato; AKIMOTO, Takuo
- 3PB-165** Detection of fluorescence-labeled protein using fluorescence enhancement technology by an optical interference and a localized surface plasmon (Tokyo Univ. of Tech.) HARASHIMA, Takafumi; YASUDA, Mitsuru; AKIMOTO, Takuo
- 3PB-166** High contrast imaging of a biomolecule using an optical interference mirror slide based on polarization dependence of fluorescence enhancement (Tokyo Univ. of Tech.) YASUDA, Mitsuru; AKIMOTO, Takuo
- 3PB-167** Characterization of DNA aptamers that bind to CD4 (Tokyo Univ. of Technology; School of Bioscience and Biotechnology) SATO, Yui; KUBO, Hitomi; SHIMIZU, Tomoo; YANO, Kazuyoshi
- 3PB-168** Continuous monitoring of cellular activity with a quartz crystal sensor and Surface chemical treatment of the sensor surface for the optimum cellular adhesion (Tokyo University of Technology Graduate School. Muramatsu laboratory) OOTANI, Naoya; MURAMATU, Hiroshi
- 3PB-169** Basic study of the Bactericidal effects of electrolyzed water containing hypochlorous acid -3-The effect of pH on the interaction with amino acids- (Kanagawa Univ. Tokyo Institute of Technology) SASAKI, Yuya; IWASAWA, Atsuo; NISHIMOTO, Yuku
- 3PB-170** Portable NIR study and chemometrics for quality evaluation of foods and agricultural products (Graduate School of Natural Sciences, Nagoya City Univ.) KATSURAGAWA, Yuichi; IWANISHI(FUKUOKA), Megumi; KOBAYASHI, Yukio; HASEGAWA, Junko; KATAYAMA, Norihisa
- 3PB-171** Determination of Interlayer Ion contents in Layered DoubleHydroxides by Deconvolution of IR Absorption Spectrum (Univ. of Okayama) TANAKA, Toshiyuki; KAMESHIMA, Yoshikazu; NISHIMOTO, Shunsuke; MIYAKE, Michihiro

Sunday, March 24, PM

(15 : 00~16 : 30)

## Material Chemistry

### Inorganic Materials

- 3PC-001** Preparation of Cr<sub>3</sub>Si Powders by Solid-State Reaction between Chromium and Silicon Powders with Addition of Alkali Metal Chlorides (Ikokushikan Univ.;2Tohoku Univ.) OKADA, Shigeru; KAMAMOTO, Kiyomi; YAMASAKI, Takashi; YUBUTA, Kunio; SHISHIDO, Toetsu
- 3PC-002** Synthesis of nanocrystalline Zinc Oxide by microwave-assisted heating (Gunma Univ.) TAKAGI, Haruka; IWAMOTO, Shinji
- 3PC-003** Study of Synthesis Processes of Aluminum Molybdate for Application to Gas Sensor (Kochi Univ.) NAKAMURA, Yuku; NISHIZAWA, Hitoshi; SHIMANOUCI, Rie
- 3PC-004** Structure controlled electrodeposition of oxide semiconductor films (OMTRI) SHINAGAWA, Tsutomu; CHIGANE, Masaya; IZAKI, Masanobu
- 3PC-005** Preparation and their Optical Properties of (Eu<sub>1-x</sub>Y<sub>x</sub>)<sub>2</sub>WO<sub>6</sub> red phosphors (Dept. of Mat. Sci. & Engr.; Nat. Def. Acad.) ARUGA, Atsushi; SHINHAMA, Yosuke; OGIHARA, Hironori; OZAWA, Shinichiro
- 3PC-006** Green luminescence from Zn<sub>2</sub>GcO<sub>4</sub>:Mn<sup>2+</sup> thin films prepared by the sol-gel and dip coating methods, and application for inorganic electroluminescence material (Coll. Life Sci., Ritsumeikan Univ.) SANADA, Tomoe; YAMAMOTO, Kazuhiro; WADA, Noriyuki; KOJIMA, Kazuo

### Organic Materials

- 3PC-007** Hydrothermal Stability of Kenaf Stems by the Leachates Analysis

- (Kyoto Municipal Industrial Technology and Culture; The Center for Fiber and Textile Science, Kyoto Institute of Technology; Graduate School of Gunma Univ.) MINAMI, Hideaki; KAWAHARA, Yutaka
- 3PC-008** Synthesis and property of novel donor-acceptor pi-conjugated dyes for dye-sensitized solar cells (Faculty of science, Josai University) TSURUMA, Shota; HASHIMOTO, Masashi
- 3PC-009** Purification of Ionic Liquid Prepared from Meerwein Reagent by Using Weakly Basic Anion Exchange Resin (Seikei Univ.) TAKAO, Koichiro; TSUBOMURA, Taro
- 3PC-010** A One-Step Convenient Procedure for Fabricating Superhydrophobic Polymer Coatings: Incorporation of Chemically-reactive Groups on Their Surfaces (Kawamura Institute of Chemical Research) SATO, Aya; KATO, Shinji
- 3PC-011** Development of Novel Fluorine-containing Multifunctional Acrylic Monomer (Fujifilm Corporation; Synthetic Organic Chemistry Laboratories) SUZUKI, Hiroyuki; HARADA, Masayuki; ISHIDA, Naoya; KATSUMATA, Taiji; ITO, Takayuki
- 3PC-012** Gas sensing property of porous thin films of calixarene ion complexes (Wakayama National College of Technology) NAKANISHI, Tatsuya; NOMURA, Eisaku

## Composite Materials

- 3PC-013** Preparation of The Functional Nano Composite Particles Directed Toward Carriers For Catalysts (Technology Research Institute of Osaka Prefecture) HAYASHI, Hirokazu; NAKASHIMA, Yoichi; KIMOTO, Masaki
- 3PC-014** Vertically-aligned metal nanowires for electrochemical energy storage application (Kyoto Institute of Technology) NAKANISHI, Hideyuki; KIKUTA, Ikuo; SEGAWA, Hiroyo; TRAN-CONG-MIYATA, Qui
- 3PC-015** Preparation of cellulose silica hybrid film with cholesteric mesophase structure (Kanazawa Univ. Graduate School of Natural Science and Technology) TSUKASAKI, Yuki; OGOSHI, Tomoki; YAMAGISHI, Tada-aki
- 3PC-016** New preparation method of visible light responsive photocatalyst/clay hybrid materials (AIST) NISHIZAWA, Kaori; WATANABE, Eiji; MAEDA, Masaki; INUKAI, Keiichi; SUZUKI, Masaya
- 3PC-017** Preparation of hydroxyapatite-xanthan gum composite hydrogel (Tottori Univ.) IZAWA, Hironori; MORITA, Kohei; IFUKU, Shinsuke; MORIMOTO, Minoru; SAIMOTO, Hiroyuki
- 3PC-018** Reversible Adsorption Behavior of Pb<sup>2+</sup> on Clay-Poly(N-Isopropylacrylamide) Nanohybrids (Tokyo Denki University) KOIZUMI, Nagisa; ISHIMARU, Shin'ichi
- 3PC-019** Li-ion conductivity in Clay-Poly(N-Isopropylacrylamide) Nanohybrid-Gel (Tokyo Denki University) KOSUGI, Emiko; ISHIMARU, Shin'ichi
- 3PC-020** Development of Organic/Inorganic Hybrids Inspired Structures of the Exoskeleton of a Crayfish (The Univ. of Tokyo) NISHIMURA, Tatsuya; KUMAGAI, Hiromu; MATSUNAGA, Ryou; NAGASAWA, Hiromichi; TSUMOTO, Kouhei; KATO, Takashi
- 3PC-021** Development of Organic/Inorganic Thin-Film Hybrids on Photo-Reactive Polymer Matrices (The Univ. of Tokyo) SAKAMOTO, Takeshi; KAJIYAMA, Satoshi; KATO, Takashi
- 3PC-022** Synthesis and properties of cage silsesquioxane Q<sub>8</sub><sup>DMS</sup> polymer (Tokyo University of Science) IGARASHI, Takahiro; TSUKADA, Satoru; ABE, Yoshimoto; GUNJI, Takahiro
- 3PC-023** Synthesis of gold nanoparticles / zeolite-L composite by hydrothermal reduction of tetrachloroaurate ion (Fukushima National College of Technology) YOSHIDA, Keisuke; OKUNO, Teruhisa; KAWAMURA, Go; MATSUDA, Atsunori; HASHIMOTO, Shuichi; HAGIRI, Masahide
- 3PC-024** Electrochemical Properties of hybrid of Polyoxomolybdate and Organic Molecules (Ritsumeikan Univ.) KIYOHARA, Ayumi; NISHIDA, Shota; TSUMORI, Tatsuhiro; TSUTSUMI, Osamu
- 3PC-025** Synthesis and Properties of Polyoxometalates Covalently Linked with Organic Molecules (Ritsumeikan Univ.) SHIBATA, Keisuke; KAWATA, Yukio; TSUTSUMI, Osamu
- 3PC-026** Development of the formation technique of Cu micron wiring by using the photo-patterning characteristics of organic-inorganic hybrid and electroless Cu plating. (shibaura institute of technology) EGUCHI, Masaya; OHISHI, Tomoji

## Carbon Materials

- 3PC-027** Synthesis and purification of fullerenes from carbon by using arc welder (Hachinohe National college of technology) KITAMURA, Hiroki; SAITO, Takayuki
- 3PC-028** Simple synthesis of diamond from carbon by the contact arc method (Hachinohe National college of technology) SAITO, Takayuki; TAIRA, Fubuki

## Low Dimensional Materials

- 3PC-029** Influence of Hot-wall temperature and discharge pressure on the properties of Cu<sub>2</sub>ZnSnS<sub>4</sub> thin film deposited by r.f. magnetron sputtering

- (Kanazawa Institute of Technology) SAKAGAMI, Takuya; NAKAMURA, Kazuki; INABA, Syunsuke; SAKAMOTO, Mune-aki; KUSANO, Eiji
- 3PC-030** Structural evaluation of nano-heterojunction thin films assembled with covalent organic frameworks (Osaka Prefecture University) WATANABE, Tarō; KOBAYASHI, Takashi; NAITO, Hiroyoshi; MAKIURA, Rie
- 3PC-031<sup>#</sup>** Microstructure of mist deposited thin films using TiO<sub>2</sub> nanoparticle (IMRAM, Tohoku University) QIN, Gang; WATANABE, Akira
- 3PC-032** Shape Control of Thermoelectric BiSbTe Nanoparticles (School of Materials Science, JAIST) KODAIRA, Satoru; NGUYEN, Thanh Mai; MOTT, Derrick; MAENOSONO, Shinya
- 3PC-033** Facile One-pot Single-step Synthesis of Rare Earth Doped Metal Oxide and Core-Shell Spherical Mesoporous Nanoparticles in Supercritical Methanol (Graduate School of Kochi Univ. of Technology) YOKOYAMA, Kazuya; WANG, Pengyu; KOBIRO, Kazuya
- 3PC-034** One-pot and Single-step Synthesis of Hollow Spherical Mesoporous Titanium Dioxide Nanoparticles in Supercritical Methanol and Their Shell Thickness Control (Kochi Univ. of Technology) UENO, Kimiyoshi; WANG, Pengyu; KOBIRO, Kazuya
- 3PC-300** Chemical Reduction Deposition of Gold Nanoparticles on Plasma-Treated Multiwalled carbon Nanotubes and their Catalytic Properties for Aerobic Glucose Oxidation. (Fac. Eng., Shinshu Univ.) IIMURO, Keita; ARAI, Susumu

## Functions of Materials

- 3PC-035** STM Observation of Photofunctional Molecules Isolated by PTCDI-Melamine Network (Grad. School of Eng., Kyoto Univ.) YOKOYAMA, Soichi; HIROSE, Takashi; MATSUDA, Kenji
- 3PC-036** Photochromism of Diarylethene on Gold Nanoprism (Grad. School of Eng., Kyoto Univ., JST PRESTO) NAKAZAKI, Mizuho; HIGASHIGUCHI, Kenji; MATSUDA, Kenji
- 3PC-037** Synthesis and Properties of Silica Nanoparticles Covered with Photochromic Polymers by Reversible Addition-Fragmentation Chain Transfer Polymerization (Graduate School of Engineering, Osaka City University) SENO, Ryuta; KOBATAKE, Seiya
- 3PC-038** Synthesis and Optical Properties of Gold Nanoparticle Network Covered with Diarylethene Polymers (Graduate School of Engineering, Osaka City University) HIRAMATSU, Kuniaki; KOBATAKE, Seiya
- 3PC-039** Single-crystalline photochromism of diarylethenes having long alkyl chains (Graduate School of Engineering, Osaka City University) IWAIHARA, Chika; KOBATAKE, Seiya
- 3PC-040** Photoinduced crystal shape change of asymmetric diarylethenes with urethane bond (Graduate School of Engineering, Osaka City University) OKUYAMA, Tomohiro; KOBATAKE, Seiya
- 3PC-041** Synthesis and photochromism of a diarylethene with methyl red framework (Graduate School of Engineering, Osaka City University) YAMADA, Takayuki; KOBATAKE, Seiya
- 3PC-042** Multiphoton-gated Photochromic Reaction in a Dithiazolylarylene Derivative (Graduate School of Engineering Science and Center for Quantum Materials Science under Extreme Conditions) MORIKAWA, Soichiro; KATAYAMA, Tetsuro; MIYASAKA, Hiroshi; FUKUMOTO, Sayo; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 3PC-043** Synthesis and photo induced elimination reaction of photochromic terarylene with leaving groups (Nara Inst. Sci. Tech.) TSUCHIE, Kenta; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 3PC-044** Quantum chemical calculation studies on the photoreactivity of Tetraoxide-Terarylenes (Nara Inst. Sci. Tech.) KANAZAWA, Rui; TAGUCHI, Maki; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 3PC-045** Photochromic performance of 1-thiazolyl-2-vinylcyclopentene derivative having 4-methoxyphenyl-substituted olefin. (Niihama National College of Technology/Department of Environmental Materials Engineering) TAKAMI, Shizuka; SHIMIZU, Ayano; MIYOSHI, Ryota; SAIKI, Yuki; YAMAGUCHI, Tadatsugu; IRIE, Masahiro
- 3PC-046** Photochromism of Diarylethenes Bearing a Hydrogen-substituted Cyclopentene Ring (Hyogo Univ. of Teacher Edu.; Niihama Nat. Coll. of Tech.; Rikkyo Univ.) HOSAKA, Manabu; OZEKI, Toru; TAKAMI, Shizuka; MORIMOTO, Masakazu; YAMAGUCHI, Tadatsugu
- 3PC-047** Creation of novel emitting devices in the visible region by rare-earth complexes dispersed in organogels (Shimane Univ.; Shizuoka Univ.) WATANABE, Yasuhiro; WATANABE, Keiichi; HARADA, Takashi; KAWAI, Hideki; NISHIYAMA, Katsura
- 3PC-048** Creation of color-tunable emitting devices by using rare-earth nanostructures (Shimane Univ.) AKITA, Yukihiko; NISHIYAMA, Katsura
- 3PC-049** Structures of organogels composed of naphthols and phenols by self-assembly and their applications to organic-inorganic hybrid materials (Shimane Univ.; Hiroshima Univ.) KATSUBE, Shotaro; WATANABE, Keiichi; KATSUMOTO, Yukiteru; NISHIYAMA, Katsura
- 3PC-050** Multi-emitting properties of iridium complexes monolayer by layer-by-layer deposition (Ehime University; NIMS) SATO, Hisako; MORIMOTO, Kazuya; OHARA, Keishi; NAGAOKA, Shin-ichi; TAMURA, Kenji
- 3PC-051** Structure and emission Properties Tridentate and Tetridentate copper(I) complex with P-bidentate ligands. (Nara inst. Sci. Tech.) DAN, Misato; YUASA, Junpei; KAWAI, Tsuyoshi
- 3PC-052** Control of thermoresponsive fluorescence property from anisotropic silver nanoparticle/fluorophore complexes (Nihon Univ.) ICHIKAWA, Ryutarō; SUGAWA, Kousuke; OTUKI, Joe
- 3PC-053** A Proposal Method for Manufacturing Human Body Anatomical Models for Medical Training Using Photopolymerization (Shibaura Institute of Technology) IKEDA, Shuhei; NAKAMURA, Asao
- 3PC-054** Photoexcited States of a UV Absorber, Dioctyl 4-Hydroxy-3,5-Dimethoxybenzylidenemalonate (Yokohama National University) HIRAMOTO, Yuya; KIKUCHI, Azusa; YAGI, Mikio
- 3PC-055** Photoexcited States of UV Absorbers, Benzotriazole Derivatives (Yokohama National University) SUGIYAMA, Kazuto; KIKUCHI, Azusa; YAGI, Mikio
- 3PC-056** Photosensitized Production of Singlet Oxygen by Organic UV Absorbers (Yokohama National University) KUMASAKA, Ryo; KIKUCHI, Azusa; YAGI, Mikio
- 3PC-057** Synthesis and Photoexcited States of a New UV Absorber with Absorption Bands in the UV-A and UV-B Ranges (Yokohama National University) NANBU, Yuichi; KIKUCHI, Azusa; YAGI, Mikio
- 3PC-058** Photochemically-induced Crystallization of Protein (Grad. Sch. Eng., Gunma Univ.) OKUTSU, Tetsuo
- 3PC-059** Monitoring mitochondrial membrane potential by using fluorescent probe with high two-photon excitation fluorescence efficiency (Fac. Sci., Yamaguchi Univ.) MORITOMO, Hiroki; YAMADA, Kengo; FUJII, Syunsuke; SUZUKI, Yasutaka; TANI, Seiji; KAWAMATA, Jun
- 3PC-060** Spectral change of metal porphyrins by redox reactions (Univ. of Yamanashi) KAMIMURA, Kenji; UCHIDA, Yuzo; MAEKAWA, Kazuyoshi; OGAWA, Kazuya
- 3PC-061** Construction of a Network Structure of Gold Nanoparticles Connected with Redox-active Wire Molecules (Grad. Sch. Arts and Sci., The Univ. of Tokyo) OMATA, Kiyoto; TOYOTA, Tarō; MATSUSHITA, Michio; SUZUKI, Kentaro; SUGAWARA, Tadashi
- 3PC-062** Preparation and Electrochemical Properties of Mixed Valence-type Na<sub>2</sub>Ti<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub> (Kochi Univ.) SHIBATA, Yosuke; OHNISHI, Haruna; NAKAMURA, Yoko; NOYAMA, Harunori; SHIMANOCHI, Rie
- 3PC-063** Synthesis and Properties of Strong Blue Fluorescent 4,5-Bis(biphenyl)-substituted Imidazoles (Sojo Univ.; Phoenix) KUWAHARA, Rempai; TANAKA, Tatsuya; MIZUKI, Keiji; HATTA, Taizo
- 3PC-064** Red Fluorescence Properties of Mn<sup>2+</sup> in Phosphate Glasses (Suzuka Natl. Coll. Tech.) WADA, Noriyuki; TABATA, Naoki; SANADA, Tomoe; KOJIMA, Kazuo
- 3PC-065** Withdrawn
- 3PC-066** Preparation of the LiFe<sub>3</sub>O<sub>8</sub> sheet obtained from citrate salts and NO<sub>x</sub> adsorption (Kokushikan Univ.) KAMAMOTO, Kiyomi; OKADA, Shigeru; SHISHIDO, Toetsu; KUDO, Kunio
- 3PC-067** Inclusion complexes of melatonin and cyclodextrins (Kobepharma. Univ.) MAEDA, Hideko; OGAWA, Yu; NAKAYAMA, Hirokazu
- 3PC-068** Synthesis of anticancer drug intercalated layered double hydroxide hollow nanosphere and its cytotoxic effect (Iwate Univ.) AISAWA, Sumio; KIKUCHI, Ryouta; SUGA, Daisuke; TAKAHASHI, Satoshi; HIRAHARA, Hidetoshi; NARITA, Eiichi
- 3PC-069** Preparation of needle-shaped peptide nanoassemblies containing antigen for cancer immunotherapy (Kyoto Institute of Technology) NISHIGAKI, Saki; KITAGAWA, Yuichi; KAWABATA, Kazufumi; WAKU, Tomonori; KUNUGI, Shigeru; TANAKA, Naoki
- 3PC-070** Preparation of cationic iron porphyrin complex loaded PLGA-Pluronic F88 macromolecule vesicle and evaluation of anticancer properties (Tokyo Univ. of Sci.) KIKUCHI, Yuki; KONDO, Takeshi; YUASA, Makoto
- 3PC-071** Formation of iron porphyrin complex-loaded Hydrogenated soy phosphatidylcholine liposome and evaluation of the anticancer properties (Tokyo Univ. of Sci.) TAKAHASHI, Yukako; KONDO, Takeshi; YUASA, Makoto
- 3PC-072** Preparation of virus capsules that can release drugs in cell (RIES, Hokkaido Univ.) TAKAHARA, Shuko; TAKEUCHI, Chie; SUGIMURA, Naotoshi; NIIKURA, Kenichi; SAWA, Hirofumi; IJIRO, Kuniharu
- 3PC-073** Synthesis and evaluation of intracellular phosphorylation signal-responsive drug carrier (Kitakyushu National College of Technology; Faculty of Eng., Kyushu Univ.) TERAUCHI, Mikio; SONODA, Tatsuhiko; YAMAMOTO, Kazuya; KATAYAMA, Yoshiki; YAMADA, Kenji
- 3PC-074** Correlation between percutaneous permeation of Amino acid ions and Hydrophilic Lipophile Balance Number of L-Arginine and L-Lysine in Hairless Mouse and Human Skins (Program in Chemistry and Life Science, Department of Interdisciplinary Science and Engineering, Faculty of Science and Engineering, Meisei University) WATANABE, Yukio; OZAWA, Tomomi; HIGASHI, Naoyuki; SHIOYA, Kazune; MATSUMOTO, Megumi; SUZUKI, Yasuko; SUZUKI, Harue; UEDA, Toyotoshi
- 3PC-075** Observation of Biological Reaction in Liposome by Microfluidic Giant Liposome Trapping System (Kanagawa Academy of Science and Technology) ABE, Yuta; KAMIYA, Koki; OSAKI, Toshihisa; KAWANO, Ryujii; MIKI, Norihisa; TAKEUCHI, Shoji
- 3PC-076** Changes in giant vesicle triggered by photoresponsive vesicle containing Malachite Green leuconitrile derivative (Nara National College of Technology) YASUMATSU, Hanako; UDA, Ryoko
- 3PC-077** Effect of Cerasome as Gene Carrier on Differentiation of Cultured

Hippocampal Neurons (Nara Inst. of Sci. and Technol.) TSUKUI, Miku; TAHARA, Keishiro; MORIUCHI, Takanobu; HIROTA, Akira; MAENO, Takanori; TORIYAMA, Michinori; INAGAKI, Naoyuki; KIKUCHI, Jun-ichi

**3PC-078** Regulation of enzymatic reaction through utilization of organic-inorganic hybrid vesicle (Grad. Sch. Mater. Sci., Nara Inst. Sci. and Technol.) OHSHIMA, Shohei; YASUHARA, Kazuma; KIKUCHI, Jun-ichi

## Applications of Materials

**3PC-079** Light Resistance of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Hyperbranch Polystyrene/Silica Nanocomposites (Hirosaki University) OKUNO, Keita; SAWADA, Hideo

**3PC-080** Preparation and Application of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomeric Hollow Nanoparticles by the Use of Silicene Oil (Hirosaki University) IDOMUKAI, Satsuki; SAITO, Tomoya; TSUSHIMA, Yusei; TASHIMA, Tsukasa; SAWADA, Hideo

**3PC-081** Preparation and Thermal Stability of Fluorinated Alcohol/Silica/Calcium Carbonate Nanocomposites (Hirosaki University; UNIMATEC) IDOMUKAI, Satsuki; SAITO, Tomoya; TSUSHIMA, Yusei; SATO, Katsuyuki; KARIYA, Takuro; SAWADA, Hideo

**3PC-082** Preparation, Thermal Stability and Application to the Surface Modification of Fluoroalkyl Acrylate Cooligomers/Silica Nanocomposites-encapsulated Low Molecular Weight Aromatic Compounds (Hirosaki University) NAGANO, Runa; SAWADA, Hideo

**3PC-083** Absorption Spectra of Fluorinated Carboxylic Acid/Silica Nanocomposites-encapsulated a Variety of Low Molecular Weight Aromatic Compounds before and after Calcination at 800 ° C (Hirosaki University) ISE, Shougo; SAWADA, Hideo

**3PC-084** Preparation and Thermal Stability of N, N-Dimethylacrylamide Oligomer/Silica Nanocomposites-encapsulated a Variety of Low Molecular Weight Aromatic Compounds (Hirosaki University; National Institute of Advanced Industrial Science and Technology) KABUTOMORI, Masakazu; OKUNO, Keita; KIKUCHI, Mieko; NISHIDA, Masakazu; SAWADA, Hideo

**3PC-085** Development of a new analytical method for detection of trace chemicals (TUT) AMANO, Fumika

**3PC-086** Synthesis of a Novel Phosphorescent Emitting Materials with an Oxygen Atom (Osaka Prefecture University College of Technology) KAWAI, Yasuhiro; TSUJIMOTO, Hidetaka

**3PC-087** Film formation by Screen printing using Copper complex paste and wiring formation by CO<sub>2</sub>-Laser using the thermal decomposition of the copper complex (Shibaura Institute of Technology) OZAKI, Koh; OHISHI, Tomoji

**3PC-088** Multi-electron redox of dioximes and their application to organic secondary battery (Osaka Electro-Communication Univ.) NISHIMURA, Yuta; AONUMA, Shuji; OSAKA, Mao; SATOH, Masaharu

**3PC-089** Synthesis of boron-doped Li<sub>2</sub>MnSiO<sub>4</sub> cathode materials by the sol-gel method for lithium-ion batteries (Department of Applied Chemistry, College of Life Science, Ritsumeikan University) TSUJI, Kosuke; KAMISHIMA, Yuji; YOGI, Chihiro; KOJIMA, Kazuo; OTA, Toshiaki; KATAYAMA, Masaki; INADA, Yasuhiro

**3PC-090** Preparation, Thermal Stability and Photocatalytic Activity of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Anatase Titanium Oxide/Silica Nanocomposites (Hirosaki University; Graduate School of Science and Technology, Hirosaki University; LIXIL) GUO, Sujuan; KAKEHI, Hiroshi; KATO, Yoshihiro; MIURA, Masashi; ISU, Norifumi; SAWADA, Hideo

**3PC-091** Preparation of Fluoroalkyl End-capped Oligomer/Polyaniline Nanocomposites by the Interaction of the Corresponding Oligomer with Polyaniline (Hirosaki University) TSUZUKI-ISHI, Taiki; SUZUKI, Toshihiro; SAWADA, Hideo

**3PC-092** Preparation and Thermal Stability of Fluorinated Sulfonic Acid Derivatives/Silica Nanocomposites-Encapsulated Low Molecular Weight Aromatic Compounds (Hirosaki University; Nippon Chemical Industrial Co., Ltd.) SOUMA, Saki; MIZUGUCHI, Yohei; SUGIYA, Masashi; SAWADA, Hideo

**3PC-093** Preparation and Thermal Stability of a Variety of Fluorinated Alcohols/Silica Nanocomposites (Hirosaki University; UNIMATEC) SOUMA, Saki; OKUNO, Keita; ISE, Shougo; NAGANO, Runa; SATO, Katsuyuki; LIU, Xinlai; SAWADA, Hideo

**3PC-094** Preparation and Thermal Stability of o-trifluoromethylphenol/Silica Nanocomposites-encapsulated Bisphenol A (Hirosaki University; Shimane University) OKUNO, Keita; OKAZAKI, Masaaki; IIZUKA, Mari; YOSHIDA, Masato; SAWADA, Hideo

**3PC-095** Releasing Ability of Encapsulated Low Molecular Weight Aromatic Compounds into Fluoroalkyl End-capped Styrene Dimer/Silica Nanocomposites before and after Calcination at 800 ° C (Hirosaki University; Shimane University) OKUNO, Keita; IIZUKA, Mari; YOSHIDA, Masato; GOTO, Yuki; SAWADA, Hideo

**3PC-096** Absorption and Fluorescence Properties of Pyrimidine Boron Complexes (Faculty of Engineering, Gifu University) KUBOTA, Yasuhiro; KASATANI, Kohei; OZAKI, Yosuke; FUNABIKI, Kazumasa; MATSUI, Masaki

**3PC-097** New indoline dyes having a pyridone ring as an anchor group (Gifu University) AOKI, Ryota; KUBOTA, Yasuhiro; FUNABIKI, Kazumasa;

MASAKI, Matsui

**3PC-098** Adsorption of phycoerythrin dye derived from seaweed onto inorganic powders and their properties as fluorescent color materials (Tokyo Univ. Tech.; Shizuoka Univ.) MIYAZAWA, Chihō; HORI, Yumiko; KOHNO, Yoshiumi; SHIBATA, Masashi

**3PC-099** Porous glass thin film prepared on epoxy substrate (Univ. of Hyogo) MASUTANI, Yuta; DAIKO, Yusuke; KISHI, Hajime; MINESHIGE, Atsushi; YAZAWA, Tetsuo

**3PC-100** Dismantlable Adhesive Based on Diels-Alder Reaction With Furan Functionalized Copolymers and Maleimide Derivatives (Tri.Osaka) INOUE, Yotaro; TACHI, Hideki; YAMAMOTO, Kazuhiko; SAKURAI, Yoshiaki

**3PC-101** Thermal Stability and Application to the Surface Modification of a Variety of Fluoroalkyl End-capped Oligomers/Calcium Carbonate Nanocomposites (Hirosaki University) SAITO, Tomoya; TSUSHIMA, Yusei; OKADA, Yoshitaka; SAWADA, Hideo

**3PC-102** Preparation and Thermal Stability of Fluorinated Alcohols/Calcium Fluoride Nanocomposites by the Reactions of Fluorinated Alcohols with Calcium Salts (Hirosaki University; UNIMATEC) SAITO, Tomoya; TSUSHIMA, Yusei; SATO, Katsuyuki; YOSHIOKA, Hiroaki; SAWADA, Hideo

**3PC-103** Coloring Behavior of Fluoroalkyl End-capped 2-Acrylamido-2-methylpropanesulfonic Acid Oligomer/4-methoxyacetophenone Composite under UV light Irradiation (Hirosaki University; National Institute of Advanced Industrial Science and Technology; Shimane University) KIJIMA, Tetsushi; NISHIDA, Masakazu; FUKAYA, Haruhiko; YOSHIDA, Masato; MUGISAWA, Masaki; SAWADA, Hideo

**3PC-104** Thermal Stability of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Silica/Zinc Oxide Nanocomposites (Hirosaki University; Miyoshi Kasei) KUDO, Ikue; HASEGAWA, Yukio; SAWADA, Hideo

**3PC-105** Preparation and Application to the Surface Modification of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Silica/Zinc Oxide Nanocomposites-encapsulated Fluorinated Carboxylic Acid (Hirosaki University) KUDO, Ikue; HIRAYAMA, Yutaro; SAWADA, Hideo

**3PC-106** Preparation of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Silica/Boron Nitride Nanocomposites: Application of These Fluorinated Nanocomposites to the Surface Modification (Hirosaki University; Fujikura Composites) OGASAWARA, Takahumi; TAKAHASHI, Keigo; SAWADA, Hideo

**3PC-107** Molecular Study on the Adhesion Mechanism at Carbon Fiber/Epoxy Resin Interface (IMCE, Kyushu University) SEMOTO, Takayuki; TSUJI, Yuta; YOSHIZAWA, Kazunari

**3PC-108** New recycling technology for mobile phones using superheated steam (Continued report) (NTT Energy and Environment Systems Lab.) TAKAHASHI, Kazuo; KUNIOKA, Tatsuya; NEMOTO, Yasue; HARA, Minako

**3PC-109** The modification effect of the chain extender for recycled PET (KASTEC, Kyushu Univ.) NAKASHIMA, Kazuo; MIZOGUCHI, Makoto

**3PC-110** Development of environmental-benign material using Ionic liquids (Kagawa Univ.) YASUI, Masaki; TAKAGI, Yumiko

**3PC-111** Development of thin film for coloring recycle bottle using cellulose-Ph-SiO<sub>2</sub> hybrid containing a latent pigment (Shibaura Institute of Technology) SUDO, Yuji; OHISHI, Tomoji

**3PC-112** Preparation and Properties of Fluoroalkyl End-capped Oligomers/Boric Acid Nanocomposites (Hirosaki University, Shimane University) SHIMAMURA, Takuto; SOUMA, Saki; YOSHIDA, Masato; IZUMI, Syunsuke; SAWADA, Hideo

**3PC-113** Preparation and Application of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Silica/Ionic Liquid Nanocomposites (Hirosaki University, Nippon Chemical Co. Ltd.) OIKAWA, Yuri; SAITO, Tomoya; MIZUGUCHI, Yohei; SUGIYA, Masashi; SASAKI, Takahiro; SAWADA, Hideo

**3PC-114** Light Resistance of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Silica Nanocomposites-encapsulated Low Molecular Weight Aromatic Compounds (Hirosaki University) OIKAWA, Yuri; SAITO, Tomoya; MTSUKI, Yusuke; SAWADA, Hideo

**3PC-115** Preparation of transparent silicone nanohybrid material with zirconia nanoparticle (SUMITOMO OSAKA CEMENT CO.,LTD.) YAMAGUCHI, Takeru; HARADA, Kenji; SATO, Youichi; OTSUKA, Takeshi; KURINO, Yasuyuki

**3PC-116** Preparation of soluble blue and green Co phthalocyanine complex incorporated with axis ligand and development of color filter process for flexible display using ink-jet method (shibaura institute of technology) YOSHIDA, Tsutomu; OHISHI, Tomoji

## Organic Crystals

**3PC-117** Circularly polarized luminescence (CPL) property of axially chiral binaphthyl diylhydrogenphosphate derivatives with substituent (Kinki University; NIMS; NAIST) AMAKO, Tomoyuki; KIMOTO, Takaya; TAJIMA, Nobuo; FUJIKI, Michiya; IMAI, Yoshitane

**3PC-118** Chiral optical properties of solid-state phenyloxazoline derivative (Kinki University;Fukuoka University;Tokyo University of Science; NAIST) KOBAYASHI, Yuhei; TANAKA, Yuki; HIRAYAMA, Masato;



- HARADA, Takunori; TAJIMA, Nobuo; KURODA, Reiko; FUJIKI, Michiya; IMAI, Yoshitane
- 3PC-119** Exciplex Emission of Arene-1,4-Dicyanonaphthalene Dyads in Solution and in the Crystalline State (Grad. Sch. of Eng., Osaka Pref. Univ.; Seika Corporation; Wakayama Seika Kogyo Co., Ltd.; RIMED, Osaka Pref. Univ.) KOBAYASHI, Hitoshi; IMOTO, Mitsutaka; MATSUI, Yasunori; TAMAKI, Akihiro; TAKEDA, Motonori; OHTA, Eisuke; MIZUNO, Kazuhiko; IKEDA, Hiroshi
- 3PC-120** Measurement of optical properties of nickel sulfate crystal with Generalized HAUP (Waseda Univ., Asahi Lab.) TANIGUCHI, Takuya; ISHIKAWA, Kazuhiko; TANAKA, Masahito; ASAH, Toru
- 3PC-121** The crystalline state and properties of diacetylene derivatives which have a stable organic radical. (Faculty of science and technology, Keio Univ.) SHIMAJI, Takuro; MAEDA, Chihiro; YOSHIOKA, Naoki
- 3PC-122** Crystal polymorphic transition of an aromatic sulfonamide to the chiral form via melt (Tokushima Bunri University) MASU, Hyuma; KATAGIRI, Kosuke; ISHIDA, Kaoru; SAKAI, Takahiro; TOMINAGA, Masahide; AZUMAYA, Isao
- 3PC-123** Optical properties and supermolecular structures composed of anthracenedisulfonic acids and amino ethylthymine (Graduate School of Engineering, Osaka University) BUNNO, Shuji; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji
- 3PC-124** Effects of Methyl Groups for Chiral Crystallization and Spontaneous Resolution from Achiral Salts of Naphthylamine and Benzoic Acid Derivatives (Graduate School of Engineering, Osaka University) IDA, Yoko; HISAKI, Ichiro; TOHNAI, Norimitsu; MIYATA, Mikiji
- 3PC-125** Self-Assembled Behavior and Photophysical Properties of Bianthryl-Based Liquid Crystals (The Univ. of Tokyo) YAMANE, Shogo; SAGARA, Yoshimitsu; HASEGAWA, Miki; KATO, Takashi
- 3PC-126** Crystal Structures of Macrocyclic Boronic Esters with Guest Molecule (Tokyo Inst. of Tech.; JST, CREST) SAKON, Aya; FUJII, Kotaro; UEKUSA, Hidehiro; KIKUCHI, Yuji; TAKAHAGI, Hiroki; ONO, Kosuke; IWASAWA, Nobuharu
- 3PC-127** Formation of co-crystal of *N,N'*-dimethyl-4-azastilbene with iodine involving various iodide ions (Ochanomizu Univ.) HOZUMI, Atsuko; YAMADA, Shinji
- 3PC-128** Construction of porous organic salt composed of 9-(4-sulfophenyl) anthracene and triphenylmethylamine and control of fullerene arrangement (Graduate School of Engineering, Osaka University) HASEGAWA, Tetsuya; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji
- 3PC-129** Preparation and Solid-Gas Sorption Phenomena of Dipeptide Forming Hydrophobic or Hydrophilic Channel Crystal (Graduate School of Human and Environmental Studies, Kyoto University) TSUE, Hirohito; SASAKI, Kohei; INOUE, Rikako; TAMURA, Rui
- 3PC-130** Chiral Recognition of Aryl Alkanols Using Salts between *N*-Trityltyrosine and Amines (Graduate School of Engineering, Chiba University) AKAZOME, Motohiro; IKEGAYA, Masato; MEGUMI, Ken; MATSUMOTO, Shoji
- 3PC-131** Solid-state ESIPT luminescence switching of bromine-substituted imidazopyridine by accumulation structural change (Institute of Industrial Science, University of Tokyo) TAKAHASHI, Yuka; SAWATANI, Hirotaka; MUTAI, Toshiki; ARAKI, Koji
- 3PC-132** Preparation and Properties of Amorphous Solids Consisting of Triarylphenoxy that Bear a Fused Aromatic Moiety (Univ. of Toyama) SASAKI, Naho; HAYASHI, Naoto; YOSHINO, Junro; HIGUCHI, Hiroyuki
- 3PC-133** Synthesis and Properties of Naproxen Cocrystals Containing Homochiral and Heterochiral Molecular Chains Essential to Induce Preferential Enrichment (Kyoto Univ) MANOJ, Kochunnonny; IWAMA, Sekai; TAKAHASHI, Hiroki; TSUE, Hirohito; TAMURA, Rui
- 3PC-134** Crystal structures of enamines having trichlorovinyl groups (Wakayama Univ.) UKAI, Miho; TABATA, Hideyuki; KIZU, Kengo; OKUNO, Tsunehisa
- 2PD-106** Characterization of interfacial structure of photoenergy conversion systems by surface vibrational spectroscopy (NIMS) NOGUCHI, Hidenori
- 2PD-107** Structures and Reactivity of Transition Metal Centers Encapsulated in a Cage Type Ligand (Osaka Univ.) FUNAHASHI, Yasuhiro
- 2PD-108** Super-resolution Fluorescence Microscopy of Diatom Silica Shell (Yamagata Univ.) HOTTA, Jun-ichi
- 2PD-109** Visible-light-driven water oxidation using BaZrO<sub>3</sub>/BaTaO<sub>2</sub>N solid solutions as photocatalysts (Tokyo Tech) MAEDA, Kazuhiko
- 2PD-110** Metal Chain Sandwich Complexes Containing Naturally Occurring Ligands (IMS) MURAHASHI, Tetsuro
- 2PD-111** Perovskite catalysts for solar thermochemical water splitting (Caltech; JST) YAMAZAKI, Yoshihiro
- 2PD-112** Studies on the oxygen-evolving reaction of Photosystem II complex by structural and chemical analyses (Osaka City Univ.) UMENA, Yasufumii
- 2PD-113** Photocatalytic reduction of CO<sub>2</sub> over morphology controlled brookite TiO<sub>2</sub> and nanocomposite photocatalyst of g-C<sub>3</sub>N<sub>4</sub> and WO<sub>3</sub> (Kyushu Univ.) OHNO, Teruhisa
- 2PD-114** Charge transfer dynamics in Ruthenium polypyridyl complexes studied by picosecond infrared vibrational spectroscopy (Tokyo Tech; JST) ONDA, Ken
- 2PD-115** Molecular Orientation Dependence of Electron Transfer in a Porphyrin-coordinated Au Cluster (Kyoto Univ.) SAKAMOTO, Masanori
- 2PD-116** Photoreduction of CO<sub>2</sub> based on transition metal complexes having arylborane units (Hokkaido Univ.) SAKUDA, Eri
- 2PD-117** Highly efficient mononuclear iridium complex photocatalyst for CO<sub>2</sub> reduction under visible light (Toyota Central R&D Labs., Inc.) SATO, Syunsuke
- 2PD-118** Driving Force and Reaction Field of (Osaka Univ.) NAGASAWA, Yutaka
- 2PD-119** the Ultrafast Electron Transfer Reaction (Osaka City Univ.) FUJII, Ritsuko
- 2PD-120** Surface-Enhanced Infrared Spectroscopy for Evaluation of Orientation Control of a Membrane Protein (IMS) FURUTANI, Yuji
- 2PD-121** Measurement, Solvent Effect, and Thermodynamic Classification of Hydracity (BNL; JST) MATSUBARA, Yasuo
- 2PD-122** Development of New Photocatalysts for the Highly Efficient Reduction of CO<sub>2</sub> (Tokyo Tech) MORIMOTO, Tatsuki
- 2PD-123** Time-resolved IR Study on Electron and Hole Transfer from Photocatalyst to Cocatalysts (Toyota Tech. Inst.) YAMAKATA, Akira

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## Frontiers of Artificial Photosynthesis JST-PRESTO Project "Chemical Conversion of Light Energy"

- 2PD-100** Molecular function and binding of PsbP protein in higher plant photosystem II (Kyoto Univ.) IFUKU, Kentarou
- 2PD-101** Chloroplast photochemical activity and accumulation of neutral lipids in algal cells analyzed by picosecond fluorescence lifetime (Kyoto Univ.) KUMAZAKI, Shigeichi
- 2PD-102** Catalytic activity of ruthenium containing heteropolytungstates for water oxidation (Hiroshima Univ.) SADAOKA, Masahiro
- 2PD-103** Proton-coupled electron transfer that controls water oxidation rate in (Ehime Univ.) SUGIURA, Miwa
- 2PD-104** Optical Manipulation and Spectroscopy of Macromolecules on Plasmonic Nanostructures (Hokkaido Univ.) TUBOI, Yasuyuki
- 2PD-105** Elucidation and alteration of photosynthetic electron transport process based on gene manipulation techniques (Kanagawa Univ.; JST) NAGASHIMA, Kenji V.P.