

## Poster Session

Thursday, September 11

18:20–20:00

- 1P001** Preparation of Zeolite-tris-ortho-metalated Iridium(III) Complex Nanohybrids  
JO, Shin; MOCHIZUKI, Dai; KATAOKA, Tomoharu; TSUKARAHA, Yasunori; YAMAUCHI, Tomohisa; WADA, Yuji (Tokyo Inst. Tech., Osaka Univ.)
- 1P002** Control of Magnetic Properties by Partial Quenching of Orbital Momentum in a Co(II) Complex  
INOUE, Kaori; KANEGAWA, Sinji; MATSUDA, Ryotaro; JUHASZ, Gergely; YOSHIKAWA, Kazunari; SATO, Osamu (Kyushu Univ., Kitagawa Integrated Pores Project)
- 1P003** Visible-light Absorbing Charge Transfer Chromophores; Polynuclear Metal Oxide Complexes Constructed onto Mesoporous Silica  
TAKASHIMA, Toshihiro; NAKAMURA, Ryuhei; HASHIMOTO, Kazuhito (The Univ. of Tokyo, JST/ERATO)
- 1P004** Control of Photoinduced Electron Transfer in Linear-shaped Multinuclear Rhenium(I) Complexes  
KAMIMURA, Naoya; KOIKE, Kazuhide; ISHITANI, Osamu (Tokyo Tech., AIST, JST/CREST)
- 1P005** Luminescence Properties and Vapochromic Behavior of (Dicarboxybipyridine) Platinum(II) Complexes  
YONEMURA, Tsubasa; KOBAYASHI, Atsushi; KATO Masako (Hokkaido Univ.)
- 1P006** Photoirradiation Effects on the Ionic Conductivity of Polycrystalline  $\beta$ -AgI at Room Temperature  
KHATON, Rahima; IIMORI, Toshifumi; OHTA, Nobuhiro (Hokkaido Univ., RIES Hokkaido Univ.)
- 1P007** Circular Dichroism of GC-Palindromic DNAs labeled with a Fluorescein-Like Chromophore  
FUJIMOTO, Kazuhisa; AIZAWA, Sayaka; INOUE, Masahiko (Univ. of Toyama)
- 1P008** Development of Novel Photochromic Nucleobases  
SAITO, Yoshio; MATSUMOTO, Katsuhiko; BAG, S. S.; KODATE, Satoshi; SAITO, Isao (Nihon Univ.)
- 1P009** Development of Caged Compounds Using Dihydroneuroquinoline  
OBI, Naoko; MOMOTAKE, Atsuya; ARAI, Tatsuo (Univ. of Tsukuba)
- 1P010** Photoinduced Electron Transfer of Hybrid Langmuir-Blodgett Multilayers of Ruthenium Hydroxide and Organic Dyes  
OHNO, Tatsuya; USAMI, Hisanao; SUZUKI, Eiji (Shinshu Univ., JST/SORST)
- 1P011** Selective Zn(II) Fluorescence Sensing with Quinoline-polyamine Ligands  
ICHIMURA, Chizuru; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki (Osaka Univ.)
- 1P012** Formation of Various Supramolecular Assemblies from Hydrogen-Bonded Perylene Bisimide Dyes  
SEKI, Tomohiro; YAGAI, Shiki; KARATSU, Takashi; KITAMURA, Akihiko (Chiba Univ., JST/PRESTO)
- 1P013** Photomechanical Behavior of Aminoazobenzene Single Crystal  
OJIMA, Naoko; KOSHIMA, Hideko (Ehime Univ.)
- 1P014** Photoreaction of Diarylethenes Having an Azulene Ring  
UCHIDA, Kingo; NAKAGAWA, Hiroto; MOTIZUKI, Daigou; KOBAYASHI, Takao; NAKAMURA, Shinichiro (Ryukoku Univ., Mitsubishi Chemical.)
- 1P015** Photocatalytic Oxidation of Aromatic Hydrocarbons with Molecular Oxygen by Electron-Transfer State of Acridinium Ion Derivatives  
MIZUSHIMA, Kentaro; IWATA, Ryosuke; OHKUBO, Kei; SUZUKI, Nobuo; FUKUZUMI, Shunichi (Osaka Univ., JST/SORST, Tokyo Chem. Ind. Co. Ltd.)
- 1P016** Photocatalytic Oxidation of Benzyl Alcohols Using the Long-Lived Electron-Transfer State of Cationic Donor-Acceptor Linked Dyads Incorporated into Mesoporous Silicas  
DOI, Kaoru; ITO, Akinori; SUENOBU, Tomoyoshi; FUKUZUMI, Shunichi (Osaka Univ., JST/SORST)
- 1P017** The Highly Diastereoselective [2+2] Photocycloaddition Using Novel Chiral Naphthylmenthol Auxiliaries  
AKIYAMA, Naoya; TSUTSUMI, Ken; KAKIUCHI, Kiyomi (NAIST)
- 1P018** Regioselective Photocycloaddition of Olefin Dimers Pre-organized Using Host-Guest Interactions  
HARA, Shuhei; NAKAMURA, Asao (Shibaura Inst. Tech.)
- 1P019** Efficient Transformation of Organic Tellurides to Corresponding Carbonyl Compounds by Photooxydation  
HYUGANO, Takeshi; OUCHI, Akihiko (Univ. of Tsukuba, AIST)
- 1P020** Photosensitizing Properties of Brominated Porphycenes  
ISEKI, Yusuke; SHIMAKOSHI, Hisashi; BABA, Tatsushi; ABE, Masaaki; HISAEDA, Yoshio (Kyushu Univ.)
- 1P021** Asymmetric Photochemical Oxidation of Alkenes and Alkanes Sensitized by Ruthenium(II) Porphyrin

- HAYASHI, Kaori; SHIMADA, Yutaka; MASUI, Dai; TAKAGI, Shinsuke; TACHIBANA, Hiroshi; HARUO, INOUE (Tokyo Metropolitan Univ., JST/SORST)
- 1P022** Synthesis and Application of Novel Thiochromone S,S-dioxides as Photolabile Protecting Groups for Ketones  
GOSHO, Yoshinori; KITANI, Satoru; SUGAWARA, Kazuki; TSUTSUMI, Ken; KAKIUCHI, Kiyomi (NAIST)
- 1P023** Selective Photocyclodimerization of 4-Azachalcone in Solid State with Controlled Molecular Orientation by Cation- $\pi$  Interactions  
TOKUGAWA, Yoko; YAMADA, Shinji (Ochanomizu Univ.)
- 1P024** Surface Enhanced Raman Scattering from a Small Number of Molecules at the gap of Au nano-dimer  
TAKASE, Mai; NAGASAWA, Fumika; NABIKA, Hideki; MURAKOSHI, Kei (Hokkaido Univ.)
- 1P025** withdraw
- 1P026** Photoinduced Electron-Transfer of Electron-Donor Substituted 10-Methylacridinium Ions  
IWATA, Ryosuke; OHKUBO, Kei; SOUMA, Kazunori; YAMAMOTO, Yasuo; SUZUKI, Nobuo; FUKUZUMI, Shunichi (Osaka Univ., JST/SORST, Tokyo Chem. Ind. Co. Ltd.)
- 1P027** Excited State Dynamics of Ruthenium Porphyrin and Porphycene Complexes Probed by Femtosecond Pump-Probe Vibrational Spectroscopy  
ABE, Yosuke; IKEDA, Katsuyoshi; OKAWARA, Toru; ABE, Masaaki; HISAEDA, Yoshio; UOSAKI, Kohei (Hokkaido Univ., Kyushu Univ.)
- 1P028** Excited State Dynamics of meso-3,5-Bis(trifluoromethyl)phenyl-Substituted Expanded Porphyrins  
KANG, Sooncul; HAYASHI, Hironobu; UMEYAMA, Tomokazu; MATANO, Yoshihiro; TKACHENKO, Nikolai V.; LEMMETYINEN, Helge; IMAHORI, Hiroshi (Kyoto Univ., Tampere Univ. Tech., iCeMS)
- 1P029** STM Tip-Enhanced Raman Spectroscopy of Organic Molecules Adsorbed on Substrates with Nanoscale Roughness  
OHTA, Yo; HORIMOTO, Noriko; HUKUMURA, Hiroshi (Tohoku Univ.)
- 1P030** Photoinduced Electron Transfer in Hydrogen-Bonded Donor-Acceptor Supramolecules composed of Porphyrin Carboxylates and a Diprotonated Porphyrin Dication with Saddle Distortion  
NAKANISHI, Tatsuaki; KOJIMA, Takahiko; FUKUZUMI, Shunichi (Osaka Univ., JST/SORST)
- 1P031** Study on Exciplex Emission in Anthracene-Guanine Diad  
SHIMAMURA, Koki; SHINOHARA, Yoshihiro; NISHIMURA, Yoshinobu; ARAI, Tatuo (Univ. of Tsukuba)
- 1P032** Delocalization Dynamics of Exciton in Conjugated Polymer Studied by Femtosecond Transient Absorption Spectroscopy  
OUYANG, Tianhua; GUO, Jiamo; OHKITA, Hideo; ITO, Shinzaburo (Kyoto Univ.)
- 1P033** Effects of Metal Ions on Photoinduced Electron Transfer in an *N,N*-Dimethylaniline-Flavin Dyad  
MURAKAMI, Motonobu; OHKUBO, Kei; FUKUZUMI, Shunichi (Osaka Univ., JST/SORST)
- 1P034** Photochromic Reaction of a Hybrid Film Composed of Diarylethene-Functionalized Polystyrene and Silver Nanoparticle: Film Thickness Effect  
SATAKE, Kazuyasu; ASAHI, Tsuyoshi; NISHI, Hiroyasu; KOBATAKE, Seiya (Osaka Univ., Osaka City Univ.)
- 1P035** Diffusion Behavior of Dye Molecules in Polymer Thin Film as Revealed by Single Molecule Measurements  
KUSUMI, Takatsugu; ITO, Syoji; TAKEI, Satoshi; MIYASAKA, Hiroshi (Osaka Univ., Nissan Chemical Industries, JST/PRESTO)
- 1P036** Annealing Effects on Carrier Formation and Recombination Dynamics in Polythiophene Organic Solar Cells  
GUO, Jiamo; OHKITA, Hideo; BENTEN, Hiroaki; ITO, Shinzaburo (Kyoto Univ.)
- 1P037** Synthesis and Photophysical Properties of A Novel TICT-type Fluorescent Sensor for Amino Acids (V)  
ITO, Akitaka; ISHIZAKA, Shoji; KITAMURA, Noboru (Hokkaido Univ.)
- 1P038** The Photoreaction Dynamics of the Cryptochrome Detected by Transient Grating Method  
KONDOH, Masato; HITOMI, Kenichi; TERAZIMA, Masahide (Kyoto Univ., Scripps)
- 1P039** Nanosecond Structural Fluctuation of Single-Stranded DNA Labeled with Fluorescent Dye Studied by Single-Molecule Photon Statistics  
KAJI, Takahiro; ITO, Syoji; IWAI, Shigenori; MIYASAKA, Hiroshi (Osaka Univ., JST/PRESTO)
- 1P040** Nonlinear Photochemical Reaction-Induced Crystallization of Protein  
HARUTA, Susumu; TOMARU, Takuma; HIRATSUKA, Hiroshi; OKUTSU, Tetsuo (Gunma Univ.)
- 1P041** Signal Transduction and Role of Oligomer Formation of Blue Light Sensor Protein TePixD  
TANAKA, Keisuke; NAKASONE, Yusuke; OKAJIMA, Koji; TOKUTOMI, Satoru; IKEUCHI, Masahiko (Kyoto Univ., Osaka Pref. Univ., The Univ. of Tokyo)
- 1P042** Quantitative Investigation of Charge Recombination Rates at the CdS Quantum Dots/TiO<sub>2</sub> Interface, Monitored in the Visible to Near Infrared Wavelength Region.

- UMEKITA, Kazuya; TACHIBANA, Yasuhiro; KUWABATA, Susumu (Osaka Univ.)
- 1P043** Photocatalytic and/or Photochemical Dechlorination of Chlorobenzene  
FUKU, Kojiro; HASHIMOTO, Keiji; KOMINAMI, Hiroshi (Kinki Univ.)
- 1P044** Photocatalytic Degradation of Organic Compounds on Cu/TiO<sub>2</sub> Films Prepared by Size-Controlled Cu Deposition  
SUGIHARA, Masahiro; YAMAZAKI, Suzuko (Yamaguchi Univ.)
- 1P045** Biaxially-Oriented Growth and Plasmon Resonance Properties of Ag Nanorods on Single Crystalline TiO<sub>2</sub> Surfaces  
KAZUMA, Emiko; MATSUBARA, Kazuki; SAKAI, Nobuyuki; TATSUMA, Tetsu (Univ. Tokyo, JST/PRESTO)
- 1P046** Single-Molecule Observation of the Photocatalytic Reactions in a Single TiO<sub>2</sub> Nanotube Prepared by Sol-Gel Template Synthesis  
NAITO, Kazuya; TACHIKAWA Takashi; FUJITSUKA, Mamoru; MAJIMA, Tetsuro (ISIR, Osaka Univ.)
- 1P047** Photo-control of the Magnetic Properties at non-Magnetic Semiconductor-Organic Molecular Interfaces  
KAMEYAMA, Naoto; SUDA, Masayuki; EINAGA, Yasuaki (Keio Univ.)
- 1P048** Solid-State Photoluminescence Properties of Ammonium Anthracene-1,8-disulfonates Depending on Supramolecular Arrangements  
HINOUE, Tomoaki; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji (Osaka Univ.)
- 1P049** The Patterning of Vapor Deposited Crystalline Films of Dithienylethenes Having Chiral Substituents  
UCHIDA, Kingo; AKAZAWA, Masako; OCHAKI, Yurie; MATSUZAWA, Yuji; KOZIMA, Yuko; TSUJIOKA, Tsuyoshi; NAKAMURA, Shinichirou (Ryukoku Univ., Mitsubishi Chemical, Osaka Kyoiku Univ.)
- 1P050** Photo-response of Crystalline Fibers of Dithienylethenes Having R-Naphthylamide Substituents  
UCHIDA, Kingo; MATSUZAWA, Yuji; AKAZAWA, Masako; MORIKAWA, Akiko; KOZIMA, Yuko; NAKAMURA, Shinichiro (Ryukoku Univ., Mitsubishi Chemical.)
- 1P051** Theory of Optical Manipulation of Chiral Molecules by Resonant Circular Polarized Light  
EGUCHI, Hiroki; IIDA, Takuya; ISHIHARA, Hajime (Osaka Pref. Univ., JST/PRESTO)
- 1P052** Structural Characterization of Proteins with Emission Profile of Labeled Eu(III) Complexes  
YAMADA, Kohei; YUASA, Junpei; HASEGAWA, Yasuchika; KAWAI, Tsuyoshi (NAIST)
- 1P053** The Light-Induced Crystallization of Protein  
KUROIWA, Takashi; HIRATSUKA, Hiroshi; OKUTSU, Tetsuo (Gunma Univ.)
- 1P054** Regulation of the Growth of Oyster Mushroom Mycelia by Using Characteristics of Blue LED  
NAKANO, Yoko; KOJIMA, Masanobu (Shinshu Univ.)
- 1P055** Construction of a Photochemical Reaction Field with Porphyrinatotin-SnO<sub>2</sub> for Artificial Photosynthesis  
YAMAZAKI, Tatsufumi; OOISHI, Kei; MASUI, Dai; SHIMADA, Tetsuya; TACHIBANA, Hiroshi; TAKAGI, Shinsuke; INOUE, Haruo (Tokyo Metropolitan Univ., JST/SORST)
- 1P056** Photochemical Behavior of Porphyrin-Rhenium Dyad Complex on *p*-type Semiconductor  
KIYOSAWA, Kuniomi; SUNAGAWA, Gen; TACHIKAWA, Yasuyuki; MASUI, Dai; SHIMADA Tetsuya; TAKAGI Shinsuke; ISHITANI Osamu; INOUE Haruo (Tokyo Metropolitan Univ., Tokyo Inst. Tech.)
- 1P057** Dye-Sensitized Solar Cells Based on the Surface Complexes of TiO<sub>2</sub> with Dicyanomethylene Compounds  
NAGATANI, Toshiyuki; FUJISAWA, Jun-ichi; SANEHIRA, Yoshitaka; NAKAZAKI, Jotaro; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi (RCAST, The Univ. of Tokyo)
- 1P058** Dye-sensitized Solar Cells using Azopyridine-coordinated Ru(II) Porphyrins  
KINOSHITA, Takumi; FUJISAWA, Jun-ichi; SANEHIRA, Yoshitaka; NAKAZAKI, Jotaro; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi (RCAST, The Univ. of Tokyo)
- 1P059** Photochemical Behavior of Metalloporphyrins in Layered Semiconductor Niobate  
KIYOKA, Ryuichi; MASUI, Dai; SHIMADA, Tetsuya; TACHIBANA, Hiroshi; TAKAGI, Shinsuke; TRYK, Donald A.; INOUE, Haruo (Tokyo Metropolitan Univ., JST/SORST)
- 1P060** Dye Sensitized Solar Cell using Push-Pull Quinoid Dyes  
KOMATSU, Makoto; TAMAKI, Koichi; NAKAZAKI, Jotaro; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi (RCAST, Univ. of Tokyo)
- 1P061** Efficient Photocatalytic Hydrogen-Evolution Systems using Hybrids of 9-Mesityl-10-Methylacridinium Ion and Water-Soluble Metal Colloids  
HANAZAKI, Ryo; KOTANI, Hiroaki; OHKUBO, Kei; FUKUZUMI, Shunichi (Osaka Univ., JST/SORST)
- 1P062** Novel Solar Cell Composed of Visible Light Induced Oxygenation System and Oxygen Reduction Electrode.  
OKUBO, Tomoo; TRYK, Donald A.; INOUE, Haruo (Tokyo Metropolitan Univ.)

- 1P063** Photodynamics and Photoelectrochemical Properties of Donor-Acceptor Nanohybrids Based on Carbon Nanodiamonds  
OHTANI, Masataka; KAMAT, Prashant V.; FUKUZUMI, Shunichi (Osaka Univ., Univ. Notre Dame, SORST)
- 1P064** Activity Evaluation of Reactor Bundled Light-Leakage Type Photocatalytic Fiber Formed Crystalline TiO<sub>2</sub> Fine Film  
ISHII, Fumihiko; USAMI, Hisanao; SUZUKI, Eiji (Shinshu Univ.)
- 1P065** Decomposition Property of Peptides in TiO<sub>2</sub> Photocatalytic System  
KADOSAKI, Natsuko; TANAKA, Goro; MURAKAMI, Yoshinori; NOSAKA, Atsuko; NOSAKA, Yoshio (Nagaoka Univ. of Technology)
- 1P066** Preparation and Characterization of Low Dimensional Inorganic-Organic Hybrid Solid Luminous Material with Environmental Sensing Ability  
KUSUMOTO, Hiroki; SASAI, Ryo (Nagoya Univ., EcoTopia Science Institute, Nagoya Univ.)
- 1P067** Nano-Patterning of Photoresist Induced by Plasmon-Assisted Non-Linear Photochemical Reaction  
TAKABATAKE, Satoaki; UENO, Kosei; NISHIJIMA, Yoshiaki; MIZEIKIS, Vygantas; JUODKAZIS, Saulius; MISAWA, Hiroaki (Hokkaido Univ., JST/PRESTO)
- 1P068** Novel Nanoscale-Environment for Chemical Reaction: Monodispersed Mesoporous Silica Spheres with Polyfluorinated Surfactants ~Preparation and Characterization~  
YAMAMOTO, Daisuke; NABETANI, Yu; SHIMADA, Tetsuya; YANO, Kazuhisa; INOUE, Haruo (Tokyo Metropolitan Univ., JST/SORST, TOYOTA CENTRAL LABS.)
- 1P069** Photo-Excited State of J-Aggregate of Tetrakis(sulfothienyl)porphyrins  
TSUZUKI, Kouhei; ARAI, Yonbon; NAKAZAKI, Jotaro; KUBO, Takaya; SEGAWA, Hiroshi (Univ. of Tokyo)
- 1P070** Electronic-Structure Simulation Study on Electronic Excited State and Fluorescence of Fluorescein Derivatives (Tokyo Green)  
NINOMIYA, Hisakazu; ITOH, Yasuhiro; SUGIMOTO, Manabu (Kumamoto Univ.)
- 1P071** Thermally Stable Photochromic Terarylene Derivatives with Controlled Intramolecular Vibrational Modes  
KAWAI Shigekazu; NAKASHIMA, Takuya; KAWAI, Tsuyoshi (NAIST)
- 1P072** Morphological Dynamics of Organic/inorganic Hybrid Films Composed of Perfluoroalkyl Azobenzene Derivative and Layered Hexaniobate  
TAKAMURA, Hazuki; NABETANI, Yu; NAKAMURA, Yuka; SHIMADA, Tetsuya; TAKAGI, Shinsuke; TACHIBANA, Hiroshi; TRYK, Donald. A.; TONG, Zhiwei; INOUE, Haruo (Tokyo Metropolitan Univ., JST/SORST)
- 1P073** Detection of Active Oxygen Species Formed by Photocatalytic Reactions with Visible Light  
SAKAMOTO, Hodaka; HIRAKAWA, Tsutomu; MURAKAMI, Yoshinori; NOSAKA, Yoshio (Nagaoka Univ. of Technology, AIST)
- 1P074** Change in Characteristics of Metal Nanoparticle-Diarylethene Complex Associated with Photochemical Reaction  
NISHII, Hiroyasu; KOBATAKE, Seiya (Osaka City Univ., JST/PRESTO)
- 1P075** Energy Transfer of Clay Mineral-Porphyrin Complex  
EGAWA, Tsuyoshi; WATANABE, Hajime; TAKAGI, Shinsuke; SHIMADA, Tetsuya; TACHIBANA, Hiroshi; INOUE, Haruo (Tokyo Metropolitan Univ., JST/SORST)
- 1P076** Photocontrol of Nano Spaces in Organic/Inorganic Nano-Layered Hybrid Compound of Perfluorinated Cationic Surfactant Including Azobenzene Moiety and Niobate  
NAKAMURA, Yuka; TAKAMURA, Hazuki; NABETANI, Yu; SHIMADA, Tetsuya; INOUE, Haruo (Tokyo Metropolitan Univ., JST/SORST)
- 1P077** Novel Luciferin-Based Chemiluminescent Probes for Bioanalysis  
SEKIYA, Maki; UMEZAWA, Keitaro; SATO, Akemi; SUZUKI, Koji (KEIO Univ.)
- 1P078** Developments of Terarylene Derivatives Showing Irreversible Photochromic Compounds  
NAKAGAWA, Hisako; KAWAI, Shigekazu; NAKASHIMA, Takuya; KAWAI, Tsuyoshi (NAIST)
- 1P079** Hydroxybenzophenone Chromophore Immobilized on Aminopropyl Silica-gel Beads through Covalent Bond as Ultraviolet Absorbent  
SENDA, Yoshiya; HIDAKA, Takahiro; MATSUMOTO, Jin; SHIRAGAMI, Tsutomu; YASUDA, Masahide (Univ. Miyazaki, Asahi Organic Chemicals Co. Ltd.)
- 1P080** Preparation of Visible Light Responsive Hydrophobic TiO<sub>2</sub> Photocatalysts under Hydrothermal Conditions and Their Applications for Degradation of Organic Pollutants in Water  
KAMEGAWA, Takashi; SUGIMURA, Kazuaki; MAKI, Keiichi; MORI, Kohsuke; YAMASHITA, Hiromi (Osaka Univ.)

- 1P081** Density Functional Theory Calculations on Emission Characteristics of Polybrominated Diphenyl Ethers  
TOKUMURA, Kunihiko; AKUTSU, Kazuhiko; HAYAKAWA, Kazuichi; NAKAGAKI, Ryoichi (Kanazawa Univ., Osaka Prefectural Institute of Public Health)
- 1P082** A New Preparation Method of Visible-Light Responsive Titania Photocatalytic Films Using Ultra-Violet Light  
NISHIZAWA, Kaori; MIKI, Takeshi; WATANABE, Eiji; TAODA, Hiroshi (AIST)
- 1P083** Photocatalytic Decomposition of 2-(Fluoro-methylphosphoryl)oxypropane, GB, on TiO<sub>2</sub>  
HIRAKAWA, Tsutomu; MERA, Nobuaki; SATO, Keita; ASADA, Ryuji; KOMANO, Asuka; SANO, Taizo; NEGISHI, Nobuaki; TAKEUCHI, Kouji; SETO, Yasuo (AIST, NRIPS)
- 1P084** Stability enhancement of natural dye by complexation with hydrotalcite  
KOHNO, Yoshiumi; TOTSUKA, Koichi; IKOMA, Shuji; YODA, Keiko; SHIBATA, Masashi; MATSUSHIMA, Ryoka (Shizuoka Univ., Kao Corp., Tokyo Univ. Tech.)
- 1P085** Development of a Measuring System of NO<sub>2</sub> in the Atmosphere Using an LED-IF Technique  
YOSHIMOTO, Takatoshi; SADANAGA, Yasuhiro; TAKENAKA, Norimichi; BANDOW, Hiroshi (Osaka Pref. Univ.)
- 1P086** Photo- and Electroproperties of Meso-Diarylamined Porphyrins for Molecular Quantum Cellular Automata  
SAKAMOTO, Ryota; HONDA, Norikazu; SASAKI, Taishiro; YAMAMURA, Takeshi (Tokyo Univ. of Science)
- 1P087** Synthesis and Properties of Dinuclear Rhenium-Polypyridine Complexes toward Carbon Dioxide Reduction  
MASUI, Dai; KIYOSAWA, Kuniomi; TACHIBANA, Hiroshi; SHIMADA, Tetsuya; TAKAGI, Shinsuke; INOUE, Haruo (Tokyo Metropolitan Univ., JST/SORST)
- 1P088** Photochemical Structural Change of Ruthenium(II)-Pyridylamine-Coenzyme Complexes  
MIYAZAKI, Soushi; KOJIMA, Takahiko; FUKUZUMI, Shunichi ; (Osaka Univ., JST/SORST)
- 1P089** Photovoltaic Performance of a Dye-Sensitized Solar Cell Using Visible Light-Responsive TiO<sub>2</sub> Thin Film Electrode  
MINAKATA, Masayuki; TAKEUCHI, Masato; MATSUOKA, Masaya; ANPO, Masakazu (Osaka Pref. Univ.)
- 1P090** Effect of the Iodine Ion Concentration in Electrolytes on Photovoltaic Performance of Plastic Dye-Sensitized Solar Cells  
IKEGAMI, Masashi; MIYASAKA, Tsutomu (Toin Univ. of Yokohama)
- 1P091** Controlling Conducting Wire / Metal Oxide Hybrid Interface in Relation to Solar Cell Performance  
MAKUTA, Satoshi; UMEKITA, Kazuya; OTSUKA, Yasuhide; TERAO, Jun; TSUDA, Susumu; KAMBE, Nobuaki; TACHIBANA, Yasuhiro; KUWABATA, Susumu (Osaka Univ.)
- 1P092** Development of Novel Sensitized Dyes Including Tetracyanoanthraquinone-Acceptor Component for Organic Solar Cell Applications  
NAKAO, Hidekazu; ICHINOSE, Hirokazu; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki (Nard Inst. Ltd., Osaka Pref. Univ.,)
- 1P093** Dye-sensitized Solar Cells Using Triply Fused Heterometallic Porphyrin Dimers with NIR Absorption  
TAMAKI, Koichi; DY, Joanne Ting; SANEHIRA, Yoshitaka; NAKAZAKI, Jotaro; UCHIDA, Satoshi; KUBO, Takaya; SEGAWA, Hiroshi (RCAST, Univ. Tokyo)
- 1P094** Syntheses of Step- $\pi$ -Conjugated Polymers and Their Application for Photoenergy Conversion System (11). Distance Dependence of Photoinduced Energy and Electron Transfers  
DEGUCHI, Naoki; KONDO, Yuya; AOTA, Hiroyuki; MATSUMOTO, Akira (Kansai Univ., HRC)
- 1P095** Syntheses of Step- $\pi$ -Conjugated Polymers and Their Application for Photoenergy Conversion (12). Preparation of A,B-bolck Amphiphilic Polymer and Interphase Photoinduced Energy and Electron Transfers  
AKIYAMA, Yusaku; HMAMURA, Yuya; AOTA, Hiroyuki; MATSUMOTO, Akira (Kansai Univ., HRC)
- 1P096** Syntheses of Step- $\pi$ -Conjugated Polymers and Their Application for Photoenergy Conversion System (13). Syntheses and Properties of Branched Molecular-Wire  
SUZUKI, Shinya; AOTA, Hiroyuki; MATSUMOTO, Akira (Kansai Univ., HRC)
- 1P097** Exciton Diffusion in Poly(p-phenylenevinylene) Layer-by-Layered Thin Film Studied by Time Resolved Spectroscopy  
MASUDA, Kohji; IKEDA, Yoshifumi; OGAWA, Michihiro; BENTEN, Hiroaki; OHKITA, Hideo; ITO, Shinzaburo (Kyoto Univ.)
- 1P098** Mechanoluminescent Material as a Light Source  
TERASAKI, Nao; HONGWU, Zhang; IMAI, Yusuke; YAMADA, Hiroshi; XU, Chao-Nan (AIST, JST/CREST)
- 1P099** Efficiency of Photochemical Hydrogen Generation Using an Electron Transport across Vesicle Bilayers  
WATANABE, Kentaro; MURATA, Shigeru (The Univ. of Tokyo)
- 1P100** Light Harvesting of Visible-Light Responsive Mesoporous Organosilica

- MAEGAWA, Yoshifumi; MIZOSHITA, Norihiro; SHIMADA, Toyoshi; TANI, Takao; INAGAKI, Shinji (Toyota Central R&D Labs., Inc., JST/CREST, NAIST)
- 1P101** Enantiodifferentiating Photoisomerization of Cycloalkenes Co-Included and Sensitized by in-situ Chiral Supramolecular Host  
KOTERA, Hideaki; YANG, Cheng; MORI, Tagashi; WADA, Takehiko; INOUE, Yoshihisa (Osaka Univ.)
- 1P102** Supramolecular Enantiodifferentiating Photocyclodimerization of 2-Anthracenecarboxylate Mediated by Molecular Chaperone PhPFD  
BANDO, Kazuki; ZAKO, Tamotsu; SAKONO, Masahumi; MAEDA, Mizuo; WADA, Takehiko; YANG, Cheng; MORI, Tadashi; INOUE, Yoshihisa (Osaka Univ., Tohoku Univ., Riken)
- 1P103** Control of Stereoselectivity via the Photoexcitation of Charge Transfer Complex  
MATSUMURA, Kazuyuki; NISHIUCHI, Emi; MORI, Tadashi; INOUE, Yoshihisa (Osaka Univ.)
- 1P104** Formation of Biplane-like Dimer Derived from Photolysis of Suberenol Derivative  
TSUJIMOTO, Kazuo (JAIST)
- 1P105** Two Ways in Photoelectron-transferred Decomposition of Chlorobiphenyl with Cyclodextrin Derivatives  
TSUJIMOTO, Kazuo (JAIST)
- 1P106** Fluorescence of 4-amino-*N*-alkylphthalimides in Reverse Micellar Systems  
YAMAMOTO, Shunzo; NAKAMURA, Ryota; SUEISHI, Yoshimi (OKayama Univ.)
- 1P107** Efficient Methyl Ketone Synthesis within Metal Cation-Exchanged Zeolite Y as a Photoreaction Media.  
TSUKAMOTO, Daijiro; SHIRAI, Yasuhiro; HIRAI, Takayuki (Osaka Univ.)
- 1P108** Chemiluminescence of Dioxetanes Bearing a Phenolic Substituent in a Solid Phase  
TANIMURA, Masatoshi; WATANABE, Nobuko; IJUIN, Hisako; NISHIMOTO Yuko; MATSUMOTO, Masakatsu (Kanagawa Univ.)
- 1P109** Alkaline Metal Ion Enhanced Chemiluminescence of Bicyclic Dioxetanes Bearing a Hydroxynaphthyl Group with Vicinal Substitution Pattern  
KAKUNO, Fumihiko; WATANABE, Nobuko; IJUIN, Hisako; MATSUMOTO, Masakatsu (Kanagawa Univ.)
- 1P110** Reaction of Triplet Diphenylcarbene Protected by Bulky Substituents at the Para Positions  
HATANAKA, Keiji; YAMAGUCHI, Tsuyoshi; HIRAI, Katsuyuki; KITAGAWA, Toshikazu; TOMIOKA, Hideo (Mie Univ., Aichi Inst. of Tech.)
- 1P111** Mechanistic Study on Enantiodifferentiating Photocyclodimerization of 2-Anthracenecarboxylate with Human Serum Albumin in the Presence of Binding Inhibitors  
NISHIJIMA, Masaki; PACE, Tamara C.S.; WADA, Takehiko; NAKAMURA, Asao; MORI, Tadashi; BOHNE, Cornelia; INOUE, Yoshihisa (Osaka Univ., Tohoku Univ., Shibaura Inst. Tech., Victoria Univ.)
- 1P112** Optical Property of Dehydrobenzo[12]annulene Derivatives in Solid State  
HISAKI, Ichiro; SAKAMOTO, Yuu; SHIGEMITSU, Hajime; TOHNAI, Norimitsu; MIYATA, Mikiji (Osaka Univ.)
- 1P113** Synthesis of Trithiometacyclophane Emitting Circularly Polarized Light  
NAGAYAMA, Makoto; ISHIKAWA, Ken ; TSUJIMOTO, Kazuo (JAIST)
- 1P114** Formation of Molecular Aggregates and Fluorescence Behaviors for Water-Soluble Dendrimers Having Aromatic Ring  
AKATSUKA, Ryosuke; SHINOHARA, Yoshihiro; NISHIMURA, Yoshinobu; ARAI, Tatsuo (Univ. of Tsukuba)
- 1P115** Highly Regioselective Functionalization of Perylene Bisimides  
NAKAZONO, Satomi; IMAZAKI, Yusuke; SHINOKUBO, Hiroshi; OSUKA, Atsuhiko (Kyoto Univ.)
- 1P116** Syntheses and Photochemical Properties of Tin Porphycene and Hemiporphycene Complexes  
MAEDA, Daisuke; SHIMAKOSHI, Hisashi; ABE, Masaaki; HISAEDA, Yoshio (Kyushu Univ.)
- 1P117** Dynamics of Excited State Intramolecular Hydrogen Atom Transfer in O-H:O and N-H:N Hydrogen Bonded Compounds  
TESHIMA, Takeshi; NISHIMURA, Yoshinobu; ARAI, Tatsuo (Univ. of Tsukuba)
- 1P118** Synthesis and Photochemical Behavior of Peptide Dendrimers with Huge Substitution Group Consisting of Glutamic Acid  
mitsuno, Chikayoshi; MOMOTAKE, Atsuya; NISHIMURA, Yoshinobu; ARAI, Tatsuo (Univ. of Tsukuba)
- 1P119** Light Absorption and Thermoluminescence of Acyclic Diaryl-1,4-radical Cation and Biradical with Orbital Interaction  
IKEDA, Hiroshi; KANEL, Takahiro; KATO, Nobuyuki; MIZUNO, Kazuhiko (Osaka Pref. Univ., Tohoku Univ.)
- 1P120** PET Reaction of 1,2-Bis( $\alpha$ -styryl)benzenes: Kinetic and Spectroscopic Analysis of the Precursor *o*-

Quinodimethane Radical Cation in the Short Step Synthesis of an Antimalaria Reagent

IKEDA, Hiroshi; MATSUI, Yasunori; IKEDA, Teruyo; MIZUNO, Kazuhiko; TAKAHASHI, Yasutake; KAMATA, Masaki; FUJINO, Ryota; TERO, Shozo; YAMAUCHI, Seigo (Osaka Pref. Univ., Tohoku Univ., Niigata Univ.)

**1P121** Synthesis of Aminomethyl-substituted Phenylsilane and Control of ICT Fluorescence

SETAKA, Wataru; HATTORI, Keiichi; KIRA, Mitsuo (Tohoku Univ., JST/PRESTO)

**1P122** Fluorescence Properties of Naphthalene Derivatives Bearing Silylethynyl or Silylbutadiynyl Groups

MINAMIDA, Keita; MAEDA, Hajime; YAMAJI, Minoru; MIZUNO, Kazuhiko (Osaka Pref. Univ., Gunma Univ.)

**1P123** Fluorescence Properties of Silylethynyl-naphthalene Derivatives Bearing Bulky Substituents on Silicon Atom

FUJII, Takayuki; MINAMIDA, Keita; MAEDA, Hajime; MIZUNO, Kazuhiko (Osaka Pref. Univ.)

**1P124** Dynamics of Excited-State Intramolecular Hydrogen Atom Transfer in the Benzoazole Analogs

IJIMA, Toshiyuki; MOMOTAKE, Atsuya; SHINOHARA, Yoshihiro; NISHIMURA, Yoshinobu; ARAI, Tatsuo (Univ. of Tsukuba)

**1P125** Multiple Positioning of Zinc Finger-combined  $[M(\text{bpy})_3]^{2+}$  (M = Ru, Os) on Dye-labeled DX-DNA. Fluorescence Quenching of the Dye Bound to DX-DNA by Ru and Os.

YAMAMURA, Takeshi; SASAKI, Kiyomi; SATOU, Takumi; SAKAMOTO Ryouta; ONODA, Akira (Tokyo Univ. of Sci., Osaka Univ.)

## Friday, September 12

12:20–14:40

- 2P001** Construction of the Wavelength-Tunable Transient Absorption Spectrum Measurement System Used Extremely-Short Optical Pulse  
MORII, Yuji; KATAYAMA, Tetsuro; ISHIBASHI, Yukihide; MIYASAKA, Hiroshi (Osaka Univ.)
- 2P002** Observation of Delayed Fluorescence of Dibenzofuran Emitted by Triplet-Triplet Annihilation in an Ionic Liquid  
ICHINOSE, Nobuyuki; TAN, Yoshio; NAGAHARA, Tetsuhiko; NAKAYAMA, Toshihiro (Kyoto Inst. Tech.)
- 2P003** Observation of Contact Radical Ion-Pair Formation from Solvent-Separated Radical Ion-Pair Probed by the Fluorescent Radical Cation  
ICHINOSE, Nobuyuki; YONEKURA, Yuji; NAGAHARA, Tetsuhiko; NAKAYAMA, Toshihiro (Kyoto Inst. Tech.)
- 2P004** Multiphoton Cycloreversion Reaction Dynamics of Diarylethene Derivatives : Excitation Wavelength Dependence  
ISHIBASHI, Yukihide; OHTA, Chikashi; TANI, Kensuke; MIYASAKA, Hiroshi; KOBATAKE Seiya; IRIE Masahiro (Osaka Univ., Kyokugen, Osaka City Univ., Rikkyo Univ.)
- 2P005** The Solvent Polar Effect and Viscosity Effect on the Ring-opening Reaction of Diarylethene Derivatives : Direct Observation by Femtosecond Laser Spectroscopy  
UMESATO, Toshiyuki; ISHIBASHI, Yukihide; MIYASAKA, Hiroshi; KOBATAKE, Seiya; IRIE, Masahiro (Osaka Univ., Osaka City Univ., Rikkyo Univ.)
- 2P006** Absolute Fluorescence Quantum Yield Measurements of Solutions Using an Integrating Sphere Instrument  
KOBAYASHI, Atsushi; SUZUKI Kengo; KANEKO Shigeo; YOSHIHARA, Toshitada; TOBITA, Seiji (Gunma Univ., Hamamatsu Photonics)
- 2P007** Photodynamics and Interaction in a Terphenylene-Linked Porphyrin Dimer  
ASANO, Motoko S.; TSUBOI, Michihiro; YAMASHITA, Ken-ichi; SUGIURA, Ken-ichi (Tokyo Metropolitan Univ.)
- 2P008** Photo-Controlled Phase-Separation and Phase-Mixing Caused by Photoisomerization of Spiropyran in Water-Butoxyethanol Mixture  
MORI, Ayaka; KAJIMOTO, Shinji; FUKUMURA, Hiroshi (Tohoku Univ.)
- 2P009** High Frequency Time-Resolved EPR Studies on Excited States Dynamics in Liquid Solution  
TARASOV, Valery; ISLAM, Saiful; OHBA, Yasunori; YAMAUCHI, Seigo (Tohoku Univ.)
- 2P010** Development of Femtosecond Time-Resolved Fluorescence Microscope and Its Applications  
TANIGUCHI, Seiji; CHOSROWJAN, Haik; MATAGA, Noboru (Institute for Laser Technology)
- 2P011** An addition Reaction Rate Constant between Oligomer and Phosponyl Type Radical Created by Laser Photolysis as Studied by a Pulsed EPR Method  
MIYAKE, Yusuke; MARUSHIMA, Yutaka; AKAI, Nobuyuki; KAWAI, Akio; SHIBUYA, Kazuhiko; NAKAJIMA, Yasuo; MORISHIMA, Yasumasa; OKADA, Mitsunori (Tokyo Inst. Tech., The Fulukawa Electric CO., LTD.)
- 2P012** Photoinduced Charge Separation in Dyad Molecules of Naphthalimide and Phenothiazine  
CHO, Dae Won; FUJITSUKA, Mamuru; YOON, Ung Chan; MAJIMA, Tetsuro (Chosun Univ., Osaka Univ., Pusan National Univ.)
- 2P013** Synergy Effects of Electric Field and Magnetic Field on Excitation Dynamics in a Mixture of *N*-ethylcarbazole and Some Acceptor Molecules  
AWASTHI, Kamlesh; IIMORI, Toshifumi; NAKABAYASHI, Takakazu; OHTA, Nobuhiro (Hokkaido Univ.)
- 2P014** Bond Fission Process in Pyrene-HABI Derivative as Revealed by Femtosecond to Nanosecond Time-resolved Spectroscopy  
SATO, Yusuke; ISHIBASHI, Yukihide; ITO, Syoji; NAGASAWA, Yutaka; MIYASAKA, Hiroshi; CHOSROWJAN, Haik; TANIGUCHI, Seiji; MATAGA, Noboru; KATO, Daisuke; KIKUCHI, Azusa; ABE, Jiro (Osaka Univ., Kyokugen, ILT, Aoyama Gakuin Univ.)
- 2P015** Electric Transition from the  $S_2$  and  $S_1$  Excited States of Tetrakis(*N*-methyl-4-pyridyl)porphyrin under an Hydrophobic Interaction with Benzoquinone Derivatives  
HIRAKAWA, Kazutaka; NAKAJIMA, Syuku (Shizuoka Univ.)
- 2P016** Photoreaction of Ketoprofen with Aminoacids and Polypeptides  
SUZUKI, Tadashi; OSANAI, Yohei; ICHIMURA, Teijiro (Tokyo Institute of Technology)



- 2P017** Spectroscopic Characterization on the Formation and Fabrication of Porphyrin-Polypeptide Composite Nanoparticles Produced by Laser Ablation in Solutions  
TUN, Myint Thein; KWATI, Leonard; YAMAGUCHI, Daiki; KURAWAKI, Junichi (Kagoshima Univ.)
- 2P018** Electroabsorption Spectra of Porphyrin and Phthalocyanine Supramolecules  
YOTSUTSUJI, Takefumi; NAKABAYASHI, Takakazu; OGAWA, Kazuya; HIROTA, Shun; KOBUKE, Yoshiaki; OHTA, Nobuhiro (NAIST, Hokkaido Univ.)
- 2P019** The Effect of Ultrafast Electron Transfer on the Nuclear Wavepacket Motion of the Azaporphyrin Derivatives  
MORI, Kazuya; MUKAI, Ryusuke; FUJITA, Kenji; KASAJIMA, Tatsuya; NAGASAWA, Yutaka; MIYASAKA, Hiroshi (Osaka Univ.)
- 2P020** Rotational Relaxation of 9-Fluorenone in Alcohol Solutions Studied by Fluorescence Anisotropy Decay  
HIRAI, Satori; AKIMOTO, Seiji; TOMINAGA, Keisuke (Kobe Univ.)
- 2P021** Spin Dynamics of Photogenerated Biradical in Zinc-porphyrin-Viologen Linked Compound in Ionic Liquid  
TAHARA, Hironobu; YONEMURA, Hiroaki; HARADA, Satoko; YAMADA Sunao (Kyushu Univ.)
- 2P022** Photochemical Reaction of Benzofurazans  
MORI, Akira; SAITOH, Hiroaki; KOBAYASHI, Koji; MIYAIRI, Shinichi; TAKABATAKE, Tohru; OHSHIMA, Hisashi (Nihon Univ.)
- 2P023** Synthesis and the Emission Properties of Novel Azulene Derivatives: Substituent Effects Study of Push-Pull Substituents  
KATAOKA, Yoshitaka; SUZUKA, Isamu; YASUNAMI, Masafumi (Nihon Univ.)
- 2P024** Investigation of Ultrafast Relaxation Kinetics in All-trans-Carotenoids Explored by Femtosecond Time-Resolved Fluorescence and Absorption Spectroscopies  
KOSUMI, Daisuke; ABE, Kenta; FUJIWARA, Masazumi; FUJII, Ritsuko; HASHIMOTO, Hideki; YOSHIZAWA, Masayuki (Tohoku Univ., Osaka City Univ., JST/CREST)
- 2P025** Time Resolved Epr Study of the Photoinduced Charge Separation Process of TMB/MA in 2-Propanol  
HIRATA, Yoshinori (Kanagawa Univ.)
- 2P026** Solvation Dynamics of Imidazolium-Based Ionic Liquids Measured by Three Pulse Photon Echo Peak Shift Method  
MURAMATSU, Masayasu; OISHI, Akito; NAGASAWA, Yutaka; MIYASAKA, Hiroshi (Osaka Univ.)
- 2P027** Relationship between Photophysics and Structure in Single Polythiophene Molecules  
SUGIMOTO, Toshikazu; HABUCHI, Satoshi; VACHA, Martin (Tokyo Institute of Technology)
- 2P028** Orientational Relaxation in Aqueous Solution Studied by Fluorescence Anisotropy Decay  
KARIYA, Akin; KANEKO, Youko; KISIMOTO, Risa; HIRAI, Satori; AKIMOTO, Seiji; TOMINAGA, Keisuke (Kobe Univ.)
- 2P029** External Electric Field Effects on the Fluorescence Spectrum and the Fluorescence Lifetime of the Green Fluorescent Protein  
NAKABAYASHI, Takakazu; KINJO, Masataka; OHTA, Nobuhiro (Hokkaido Univ.)
- 2P030** Photophysical Properties of Isolated Charge-Transfer Complexes : Carbazolyl Compounds System  
YAMANE, Yasumasa; ENDO, Toru; MASUO, Sadahiro; MACHIDA, Shinjiro; ITAYA, Akira (Kyoto Inst. Tech, JST/PRESTO)
- 2P031** Electronic Relaxation Processes in All-trans-2,4,6,8-decatetraene Vapor Revealed by the Measurements of the  $S_1$  and  $S_2$  Fluorescence  
ITOH, Takao (Hiroshima Univ.)
- 2P032** Formation of Photoinduced Charge Separated State of Directly Linked Porphyrin-Fullerene Dyads  
OHKUBO, Kei; HIROTO, Satoru; SHINOKUBO, Hiroshi; OSUKA, Atsuhiko; FUKUZUMI, Shunichi (Osaka Univ., JST/SORST, Kyoto Univ.)
- 2P033** Theoretical Investigation on the Cation- $\pi$  Interactions of Nicotinic Amide Derivatives  
SHIMIZU, Akinori; MORI, Tadashi; YANG, Cheng; FUKUHARA, Gaku; INOUE, Yoshihisa; YAMADA, Shinji (Osaka Univ., Ochanomizu Univ.)
- 2P034** Preparation and Luminescence Property of  $\pi$ -Conjugated Compounds bearing Chalcogenated Moieties  
NOMOTO, Akihiro; MINATOBE, Yuta; KUSANO, Hiroki; NAKANISHI, Yasuo; OGAWA, Akiya (Osaka Pref. Univ.)
- 2P035** Manipulation of Radical Reaction Pathways in a Photoinduced Electron-Transfer System  
HASEGAWA, Eietsu; MURAOKA, Hiroyasu; TSUCHIDA, Hiroyuki; KAKINUMA, Koji (Niigata Univ.)
- 2P036** Highly Selective Radical Halogenation Reaction of Alkanes Using a Microflow Reactor under Photo-irradiation  
MATSUBARA, Hiroshi; HINO, Yoshiko; RYU, Ilhyong (Osaka Pref. Univ.)
- 2P037** Control of Photophysical Properties and Photoreactions of Aromatic Imides by Use of Hydrogen Bonding  
MATSUBAYASHI, Kazuhiko; KUBO, Yasuo (Shimane Univ.)

- 2P038** Photocycloadditions of Dicyanonaphthalenes and Alkenes with Oxygen-Containing Substituents  
MATSUMOTO, Kyo; SHIRATORI, Hideo; KUBO, Yasuo (Shimane Univ.)
- 2P039** Photocycloadditions of Dicyanonaphthalenes and Phenylacetylene Derivatives  
OHSAWA, Ryosuke; SHIRATORI, Hideo; KUBO, Yasuo (Shimane Univ.)
- 2P040** Studies on Photochemically Reacting Behaviour of Organic Compounds under Electric Field  
TSUJIMOTO, Kazuo (JAIST)
- 2P041** High Efficiency on Light Emission with Circular Dichroism of Pyrene Derivatives  
TSUJIMOTO, Kazuo (JAIST)
- 2P042** Unique Photochemical and Catalytic Properties of  $\text{CpRu}^+\text{L}_n$  Complexes [ $\text{L} = \text{C}_6\text{H}_6, \text{MeCN}, \text{O}_2$  (lattice oxygen)] within AIMCM-41 and Y-zeolite  
KIM, Tae Ho; KAMEGAWA, Takashi; MATSUOKA, Masaya; ANPO, Masakazu (Osaka Pref. Univ.)
- 2P043** Application of Fused Five-Membered Porphyrin to Dye-Sensitized Solar Cells  
MATSUBARA, Yusuke; HAYASHI, Hironobu; UMEYAMA, Tomokazu; MATANO, Yoshikazu; IMAHORI, Hiroshi (Kyoto Univ., iCeMS)
- 2P044** Effects of Organic Monomers on Electropolymerization for Novel Hybrid Organic-Inorganic Nanorods  
OMORI, Takanobu; KIRA, Aiko; UMEYAMA, Tomokazu; MATANO, Yoshihiro; IMAHORI, Hiroshi (Kyoto Univ., iCeMS)
- 2P045** Properties of the Plane-Like Metacyclophane for Optical Molecular Devices  
ISHIKAWA, Ken; MIZUKAMI, Taku; TSUJIMOTO, Kazuo (JAIST)
- 2P046** Surface Modification of Polymeric Materials by Photochemical Reaction  
NAKAZAWA, Yuri; MIKI, Sadao (Kyoto Institute of Tech.)
- 2P047** Synthesis and Photoluminescence Properties of a Main-Chain-Type Oligothiophene-Containing Polymer by Hydrosilylation Polymerization  
ASAI, Kengo; KONISHI, Gen-ichi (Tokyo Institute of Technology)
- 2P048** Synthesis and Properties of Fluorene-Fluorenone Copolymer  
KONISHI, Gen-ichi; KOTAKA, Hidehiro (Tokyo Tech)
- 2P049** Perylene Derivatives as Sensitizers for Photoinduced Electron Transport in Vesicles  
TSUKAMOTO, Takahiro; MURATA, Shigeru (The Univ. of Tokyo)
- 2P050** Sensitive Metal Ion Recognition by Periodic Mesoporous Organosilica Utilizing its Light Harvesting Ability  
WAKI, Minoru; MIZOSHITA, Norihiro; MAEGAWA, Yoshifumi; TANI, Takao; SHIMADA, Toyoshi; INAGAKI, Shinji (Toyota Central R&D Labs., Inc, JST/CREST, NAIST)
- 2P051** Preparation and Photoelectrochemical Properties of ZnO Nanorod Electrodes Modified with Fullerene Monolayer and Porphyrin-Fullerene Composite Film  
HAYASHI, Hironobu; UMEYAMA, Tomokazu; MATANO, Yoshihiro; IMAHORI, Hiroshi (Kyoto Univ., iCeMS)
- 2P052** Efficiency of Photoinduced electron Transport across Vesicle Bilayers Using Pyrene Derivatives  
MORIYA, Kimio; MURATA, Shigeru (The Univ. of Tokyo)
- 2P053** Switching of Stereoselectivity in the Solid-State Photocyclization of 2-(Arylthio)-3-methyl-2-cyclohexenones: Temperature and Heavy Atom Effect  
SEKIYA, Ryo; KURODA, Reiko (The Univ. of Tokyo, JST)
- 2P054** Assignment of Substrate Binding Site for the Asymmetric Photocyclodimerization on Human Serum Albumin  
NAKAMURA, Asao; ARAI, Masashi (Shibaura Inst. Tech.)
- 2P055** Photoinduced Charge Separation of Diacetylide Platinum Complexes Linked with Triphenylamine and Naphthalendiimide Moieties  
SUGIMURA, Ryoji; SUZUKI, Shuichi; KOZAKI, Masatoshi; KEYAKI, Kazutoshi; NOZAKI, Koichi; OKADA, Keiji (Osaka City Univ., Toyama Univ.)
- 2P056** Synthesis and Photochemical Properties of Ortho Substituted Stilbene Dendrimers  
SHINOHARA, Yoshihiro; ARAI, Tatsuo (Univ. of Tsukuba)
- 2P057** Photochromic Behavior of a New Class of Diffusion-Inhibited HABI with Structurally Different Lophyl Radicals  
FUJITA, Kana; HATANO, Sayaka; ABE, Jiro (Aoyama Gakuin Univ.)
- 2P058** Photochromism of Diarylethene Derivatives in Nano-Capsule Molecule  
HAZAMA, Masaki; SAITO, Masashi; FUKAMINATO, Tuyoshi; IRIE, Masahiro (Kyushu Univ., NAIST, Rikkyo Univ.)
- 2P059** Theoretical Conformation Analysis and Synthesis Calculation of Tetrathienylethenes for Photochromism and Electrochromism  
IKEDA, Hiroshi; KISHIGAMI, Naoyuki; SAKAI, Azusa; MIZUNO, Kazuhiko (Osaka Pref. Univ.)
- 2P060** Evaluating Properties of Tetrathienylethenes Responding with Photoexcitation and Electron Transfer

- IKEDA, Hiroshi; SAKAI, Azusa; KAWABE, Akinori; NAMAI, Hayato; MIZUNO Kazuhiko (Osaka Pref. Univ., Tohoku Univ.)
- 2P061** Chromotropic Properties of *N*-Salicylideneanilines Possessing Long-Chained Substituents  
KAIBARA, Masashi; ITOH, Kennosuke; ITO, Yoshio; KAWATO, Toshio (Kyushu Univ.)
- 2P062** Photochromic Properties of Fluoro-substituted *N*-Salicylideneanilines  
ONO, Shinpei; ITOH, Kennosuke; ITO, Yoshio; KAWATO, Toshio (Kyushu Univ.)
- 2P063** withdraw
- 2P064** Effects of Substituents and Spacers on Intramolecular Photocycloaddition of Naphthalene Derivatives  
FUJIMOTO, Yasufumi; MUKAE, Hirofumi; UESUGI, Tomoya; MAEDA, Hajime; MIZUNO, Kazuhiko (Osaka Pref. Univ.)
- 2P065** Effects of Bases on C-C Bond Forming Reaction between Active Methylene Compounds and Alkenes via Photoinduced Electron Transfer  
NAKATANI, Keisuke; OHASHI, Maki; MAEDA, Hajime; MIZUNO, Kazuhiko (Osaka Pref. Univ.)
- 2P066** Organic Radical Light-emitting Diode: A new Light-emitting System utilizing a Reactive Biradical  
IKEDA, Hiroshi; NAMAI, Hayato; KATO, Nobuyuki; HOSHI, Yosuke; MORISHITA, Yoshii; MIZUNO, Kazuhiko (Osaka Pref. Univ., Tohoku Univ., Hitachi Chemical)
- 2P067** Synthesis and Fluorescence Properties of Maleimide-Isobutene Copolymers Containing Pyrenyl Groups  
YUKAWA, Shotaro; OMayu, Akitoshi; MATSUMOTO, Akikazu (Osaka city Univ.)
- 2P068** Studies on Thermal Deactivation Mechanism of Blue-Phosphorescent Tris(2-phenylpyrazole)iridium(III) Complexes  
NOZAKI, Koichi; SHIMOTORI, Kota; KARATSU, Takashi (Toyama Univ., Chiba Univ.)
- 2P069** Synthesis and Chemiluminescence of Imidazopyrazinones Possessing Thiophene-Mediated  $\pi$ -Conjugated Aryl Groups.  
SUENAGA, Takenori; AKIYAMA, Seiji; KOJIMA, Saroshi; MAKI, Shojiro; NIWA, Haruki; HIRANO, Takashi (Univ. of Electro-Communications)
- 2P070** Synthesis and Photophysical Properties of Novel Azo-hydrazone-type Fluorescent Dyes  
NAKAGAWA, Ayu; SAKAMOTO, Takehiro; EGAWA, Haruka; YOSHIDA, Katsuhira (Kochi Univ.)
- 2P071** Molecular Design, Synthesis and Photophysical Properties of Novel Heteropolycyclic Phenazine-type Fluorescence Dyes  
IDE, Takashi; EGAWA, Haruka; YOSHIDA, Katsuhira (Kochi Univ.)
- 2P072** Development of Polymer Light-Emitting Diodes using Organic Fluorescent Dyes as Emitting Dopants  
HASE, Tomoyuki; TAKADA, Atsusi; MINE, Machiko; IINUMA, Yoshiharu; YAGI, Shigeyuki; NAKAZUMI, Hiroyuki; TSUJIMOTO, Hidetaka; SAKURAI, Yoshiaki (Yamada Chemical Co. LTD., Osaka Pref. Univ., Technology Research Institute of Osaka Prefecture)
- 2P073** Emission Properties of RT-Ionic Liquid Having Cyclophosphazene Moiety  
NAKAMURA, Yoko; SHIRAGAMI, Tsutomu; YASUDA, Masahide; OOTSUKI, Masashi (Univ. Miyazaki, Bridgestone Co. Ltd.)
- 2P074** Color Tuning of a Blue Polymer Based EL Device by Dispersing Vapor of a Fluorescent Dye into the Polymer: Analysis of Dye Dependence  
MIZOKURO, Toshiko; HECK, Claire; TANIGAKI, Nobutaka; HIRAGA, Takashi; TANAKA, Norio (AIST, Dainichiseika)
- 2P075** Solid-State Fluorescence Properties of Diphenylhexatriene Dicarboxylic Acid  
SONODA, Yoriko; TAMAOKI, Nobuyuki (AIST)
- 2P076** Preparation and Photoluminescence Characterizations of Eu<sup>3+</sup>-doped Oxide Nanosheets  
OZAWA, Tadashi C.; FUKUDA, Katsutoshi; AKATSUKA, Kosho; EBINA, Yasuo; SASAKI, Takayoshi (National Institute for Materials Science)
- 2P077** Synthesis and Photophysical Properties of Emissive Multinuclear Complexes - Mesoporous Organosilica Superhybrids.  
YAMAMOTO, Youhei; TAKEDA, Hiroyuki; INAGAKI, Shinji; ISHITANI, Osamu (Tokyo Tech. Toyota Central R&D Labs., Inc. JST/CREST)
- 2P078** Photoluminescence Dynamics of Eu<sup>3+</sup>-Doped TiO<sub>2</sub> Nanocrystals Revealed at the Single-Particle Level  
TACHIKAWA, Takashi; ISHIGAKI, Masataka; LI, Ji-Guang; FUJITSUKA, Mamoru; MAJIMA, Tetsuro (ISIR, Osaka Univ., NIMS)
- 2P079** Temperature-Driven On-Off Hybrid Fluorescence Indicator Composed of CdS/Cd(OH)<sub>2</sub> Nanoparticles with Thermoresponsive Polymer  
ADACHI, Kenichi; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki (Osaka Univ.)
- 2P080** Visible Light-Induced Selective Oxidation by Ru(II)-bipyridine Complex within Zeolite Y  
MORI, Kohsuke; KAWASHIMA, Masayoshi; KAGOHARA, Kento; YAMASHITA, Hiromi (Osaka

- Univ.)
- 2P081** Light Scattering Microscopy/Imaging of Au Nanoparticle-Loaded Single Zeolite L Crystal  
UWADA, Takayuki; HASHIMOTO, Shuichi; INOUE, Kohta; MASUHARA Hiroshi (NAIST., National Chiao Tung Univ., The Univ. of Tokushima)
- 2P082** Preparation and Photosensitizing Property of Novel Cd<sub>10</sub>S<sub>16</sub> Molecular Cluster Dendrimer  
TAKAGUCHI, Yutaka; SHIOMOTO, Yohei; TSUBOI, Takaaki (Okayama Univ.)
- 2P083** Linear and Non-linear Optical Properties of Semiconductor Nanoparticle Synthesized by Biomineralization  
MIURA, Atsushi; IWAHORI, Kenji; YAMASHITA, Ichiro; KAMADA, Kenji; TAMAI, Naoto; MASUHARA, Hiroshi (NAIST, NCTU, AIST, Kwansai Gakuin Univ.)
- 2P084** Optical Properties of SiO<sub>2</sub>-Adsorbed Terpyridyloxy-Containing Alkylphosphonates and Their Use for Metal Ion Detection  
UEMATSU, Junya; MAKIOKA, Yoshikazu; TANIGUCHI, Yuki (Tokyo Inst. Tech.)
- 2P085** Chiral-Memory Effect of Optically Active CdTe Nanocrystals Capped with Chiral Ligands  
KOBAYASHI, Yuki; NAKASHIMA, Takuya; KAWAI, Tsuyoshi (NAIST)
- 2P086** Photocatalytic Oxidation of Toluene in Gas Phase on TiO<sub>2</sub> Nano Particles Hybridized with Mesoporous Silica  
KAWANAMI, Tomoe; TAKEUCHI, Masato; ANPO, Masakazu (Osaka Pref. Univ.)
- 2P087** Three Dimensional Structure of Photoinduced Charge Separated State in a Fullerene-Porphyrin Dyad Linked with Oligosilane Spacer  
ENDO, Tsubasa; SHIBANO, Yuki; TSUJI, Hayato; MURAI, Hisao; TAMAO, Kohei; KOBORI, Yasuhiro (Shizuoka Univ.)
- 2P088** Spectroscopic and Electrochemical Analyses of Interfacial Charge Transfer Driven Cu(II) Grafted TiO<sub>2</sub> Photocatalyst  
KAMIYA, Kazuhide; IRIE, Hiroshi; NAKAMURA, Ryuhei; MIURA, Shuhei; HASHIMOTO, Kazuhito (Univ. of Tokyo)
- 2P089** Photocatalytic Preferential Oxidation of CO with O<sub>2</sub> in the Presence of H<sub>2</sub> on Transition Metal Supported TiO<sub>2</sub>  
MORISHIMA, Jun; KAMEGAWA, Takashi; MATSUOKA, Masaya; ANPO, Masakazu (Osaka Pref. Univ.)
- 2P090** Optical Properties of Metal Nanoparticle Assemblies  
KUWAHARA, Yutaka; IWANAGA, Tomoki; YOSHIMORI, Keishiro; ENDOU, Hiroaki; KUMAMARU, Kaoru; KATAYAMA, Kengo; SASAKI, Mitsuru; GOTO, Motonobu (Kumamoto Univ.)
- 2P091** Effects of Magnetic Processing on Photoelectrochemical Reaction of Electrodes Modified with Nanoclusters of Phenothiazine-C<sub>60</sub> Linked Compounds  
YONEMURA, Hiroaki; WAKITA, Yuya; YAMADA, Sunao; FUJIWARA, Yoshihisa; TANIMOTO, Yoshifumi (Kyushu Univ., Hiroshima Univ., Osaka Ohtani Univ.)
- 2P092** Effects of Axial Ligands on Orientation Angle of the Adsorbed Metalloporphyrin Complex against Clay Sheet  
MORI, Soichiro; SHIRAGAMI, Tsutomu; INOUE, Haruo; YASUDA, Masahide (Univ. Miyazaki, JST/SORST)
- 2P093** Optical Characteristics and Enhancement Effects of Gold Nano-Rings  
MIYAMOTO, Hiroyuki; UENO, Kosei; OHNISHI, Dai; SAKAGUCHI, Takui; MIZEIKIS, Vygantas; JUODKAZIS, Saulius; MISAWA, Hiroaki (Hokkaido Univ., JST/PRESTO, Rohm Co., Ltd.)
- 2P094** Optical Properties of Nanogap Gold Structures -toward Realizing Up Conversion System-  
IKEGAYA, Shintaro; UENO, Kosei; YOKOTA, Ykie; NISHIJIMA, Yoshiaki; MIZEIKIS, Vygantas; JUODKAZIS, Saulius; MISAWA, Hiroaki (Hokkaido Univ., JST/PRESTO)
- 2P095** Structure and Properties of Mixed J-aggregate of Water-Soluble Porphyrins  
TSUZUKI, Kouhei; ARAI, Yonbon; NAKAZAKI, Jotaro; KUBO, Takaya; SEGAWA, Hiroshi (Univ. of Tokyo)
- 2P096** Indole-Azadiene Conjugate as a Colorimetric and Fluorometric Probe for Selective Fluoride Ion Detection  
MAEHARA, Hajime; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki (Osaka Univ.)
- 2P097** Design of Fluorescent Chemosensor for Hg(II) Based on Rhodamine  
SUMIYA, Shigehiro; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki (Osaka Univ.)
- 2P098** Syntheses and Photophysical Properties of Heteroconjugated Molecules  
OGAWA, Kazuya; DY, Joanne; KAMADA, Kenji; OHTA, Koji; HIROTA, Shun; KOBUE, Yoshiaki (NAIST, AIST)
- 2P099** Synthesis and Photophysical Properties of Insulated Porphyrin Tapes  
IKEDA, Toshiaki; ARATANI, Naoki; OSUKA, Atsuhiko (Kyoto Univ.)
- 2P100** Enantioselective Fluorescence Quenching of Aromatic Diamides Derivatives carrying Two Arylglycine Chromophores (2)  
HAYAKAWA, Akinori; ISHIKAWA, Tomoe; KAGAMI, Keisuke; IGARASHI, Tetsutaro; SAKURAI,

Tadamitsu (Kanagawa Univ.)

- 2P101** Computational Study on Electronic Structures of Molecular Computing Devices Using Fluorescence Switching. Electronically Excited States and Solvent Effects on the Electronic Spectra  
SUGIMOTO, Manabu; URYU, Tetsuro; NINOMIYA, Hisakazu (Kumamoto Univ.)
- 2P102** Effect of Spacer Length on Solvent-Induced Intramolecular Excimer Formation of Carbazolophanes  
YAMANAKA, Shou; HISADA, Kenji; TANI, Keita; HORI, Teruo (Univ. of Fukui, Osaka Kyoiku Univ.)
- 2P103** Fluorescence and Self-Assembly Properties of Amphiphilic Imidazolium Salts Possessing Aromatic Chromophore  
KOHMOTO, Shigeo; HARA, Yujiro; MASU, Hyuma; AZUMAYA, Isao; KISHIKAWA, Keiki (Chiba Univ., Tokushima Bunri Univ.)
- 2P104** The Characterization of Cu-phthalocyanine Complexes Anchored on Various Oxide Surfaces  
ASAHARA, Yoshifumi; TAKEUCHI, Masato; ANPO, Masakazu (Osaka Prefecture Univ.)
- 2P105** Photostability of J-aggregate Thin Film of Unsymmetrical Monomethine Carbocyanine Dye  
OHZEKI, Daigorou; OTAGURO, Kunihiko; TANI, Katsuhiko; KODAIRA, Takuo; HORIUCHI, Hiroaki; HIRATSUKA, Hiroshi (Gunma Univ., Taiyo Yuden Co. Ltd.)
- 2P106** Photoirradiation Effects on the Electrical Conductivity of Organic Superconductors  
IIMORI, Toshifumi; NAITO, Toshio; OHTA, Nobuhiro (Hokkaido Univ.)
- 2P107** Ultrafast Photoresponse and Applications of Phthalocyanine Derivatives in the Near Infrared Region  
INOUE, Tatsuaki; TOMITA, Daisuke; ITO, Fuyuki; NAGAMURA, Toshihiko (Kyushu Univ.)
- 2P108** Decomposition of Trimethylamine Using Perylene/Phthalocyanine p-n Junction in Aqueous Solution  
YASUDA, Yuzuri; NAGAI, Keiji; NORIMATSU, Takayoshi; ABE, Toshiyuki (Osaka Univ., Hirosaki Univ.)
- 2P109** Temperature- and pH-Driven Sensitizing Activity of Polymeric Sensitizers  
SUZUKI, Takeshi; KOIZUMI, Hisao; SHIRAI, Yasuhiro; HIRAI, Takayuki (Osaka Univ.)
- 2P110** Formation of Chiral 2<sub>1</sub>-Helical Columnar Organic Fluorophore with Anthracene Unit Using a Spontaneous Resolution  
KAMON, Kensaku; IMAI, Yoshitane; HARADA, Takunori; NAKANO, Yoko; SATO, Tomohiro; FUJIKI, Michiya; KURODA, Reiko; MATSUBARA, Yoshio (Kinki Univ., JST, NAIST, Univ. of Tokyo)
- 2P111** Molecular Diffusion in High-Density Polymer Brushes Studied by Fluorescence Correlation Spectroscopy  
BENTEN, Hiroaki; KNOLL, Wolfgang (Kyoto Univ., Max-Planck-Institute for Polymer Research)
- 2P112** Syntheses and Properties of Acetylene-linked Bis- and Trisporphyrins toward Two-photon Photodynamic Therapy  
YOSHIDA, Mayuka; INABA, Yusuke; OGAWA, Kazuya; HIROTA, Shun KOBUE, Yoshiaki (NAIST)
- 2P113** Solvatochromic and Photophysical Characteristics of an Arylboron Derivative  
ANDO, Yuki; ITO, Akitaka; SAKUDA, Eri; KITAMURA, Noboru (Hokkaido Univ.)
- 2P114** Structure Control and Photophysical Properties of Photosensitized Dendrimers  
KAWAI, Hideki; SENGOKU, Tetsuya; TAKAHASHI, Masaki; YODA, Hidemi (Shizuoka Univ.)
- 2P115** Synthesis and Characterization of Oligo Peptides Having Switchable Intramolecular NH...O Hydrogen Bonding Moiety Using Photoisomerization.  
MATSUHIRA, Takashi; YAMAMOTO, Hitoshi; OKAMURA, Taka-aki; UEYAMA, Norikazu (Osaka Univ.)
- 2P116** Photodecomposition of Guanidine Derivatives and Its Application to Crosslinking of Polymers  
SUYAMA, Kanji; OZAKI, Satoko; SHIRAI, Masamitsu (Osaka Pref. Univ.)
- 2P117** Aminoketone Type Photo-Radical Initiators Having Carbazole-Sensitizing Moiety  
YOSHIKAWA, Hiroki; YAGAI, Shiki; KITAMURA, Akihiko; KARATSU, Takashi; KANNO, Masaki (Chiba Univ. Toyo Ink)
- 2P118** Synthesis and Photochemical Properties of Non-Ionic Photoacid Generator Having Thianthrene Chromophore  
OKAMURA, Haruyuki; NAITO, Hideaki; SHIRAI, Masamitsu (Osaka Pref. Univ.)
- 2P119** Photo-Reaction Cycle of *N*-(*p*-anilinesulfonyloxy)-1,8-naphthalimide.  
SHINOZAKI, Daisuke; TAKAHARA, Shigeru; ENDOU, Takatsugu; SHINJI, Atsushi (Chiba Pref. Univ.)
- 2P120** Photo-responsive Molecule Based on Photo-*ipso*-substitution Reaction of Aromatic Rings Induced by Photoelectrontransfer  
KITAMURA, Morihiro; YOSHIMI, Yohei; TANAKA, Riho; MIKI, Sadao (Kyoto Institute of Tech.)
- 2P121** Alicyclic Structured New Oxime Type Photoacid Generator  
NAKAJIMA, Kouta; TAKAHARA, Shigeru; TSUMITA, Tomoaki; SUZUKI, Shota (Chiba University)
- 2P122** Spatially-Selective Non-linear Photopolymerization Induced by Localized Near-Field  
MURAZAWA, Naoki; UENO, Kosei; MIZEIKIS, Vyngantas; JUODKAZIS, Saulius; MISAWA, Hiroaki (Hokkaido Univ., JST/PRESTO)

- 2P123** Synthesis and Photoreactions of 2, 3-Bisarylindenones  
MORINAKA, Kaori; UBUKATA, Takashi; YOKOYAMA, Yasushi (Yokohama National Univ.)
- 2P124** Temperature Dependent Regioselective Intramolecular [2+2] Photocycloaddition of Phenanthrene Derivatives  
KOHMOTO, Shigeo; HISAMATSU, Shugo; MITSUHASHI, Hakuei; MASU, Hyuma; AZUMAYA, Isao  
KISHIKAWA, Keiki (Chiba Univ., Tokushima Bunri Univ.)
- 2P125** Study of the Ground State Interaction between SWCNT and Benzoquinones in Surfactant Solution  
ARAKI, Yasuyuki; NOZAWA, Shintaro; WADA, Takehiko (Tohoku Univ.)

Saturday, September 13

12:20–14:40

- 3P001** Spectroscopic Study on CdTe Quantum Dots with Core-Shell Structures  
TAKEUCHI, Akira; TAMAI, Naoto; ABIHIJIT, Mandal (Kwansei Gakuin Univ.)
- 3P002** Fabrication of Nano Particles in Dynamic Nano-Structured Phases during Laser-Induced Phase Separation Processes  
SHIRASAWA, Daisuke; KAJIMOTO, Shinji; FUKUMURA, Hiroshi (Tohoku Univ.)
- 3P003** Influence of the Repetitional Measurement on the PL Decay Dynamics for CdS/PVA Nanocomposites at PL Up-Conversion Measurements  
UCHIHARA, Toshio; SHINJO, Hiroaki; TADA, Yuji; TAMAKI, Yoshiaki (Univ. of the Ryukyus)
- 3P004** Measurements of the Transient Absorption for the BiVO<sub>4</sub>, Ag/BiVO<sub>4</sub> Photocatalysts Using the Femtosecond Diffuse Reflection Spectroscopy  
MURAKAMI, Yoshinori; TAKAHASHI, Shinichiro; NOSAKA, Yoshio (Nagaoka Univ. of Tech.)
- 3P005** Photoinduced Electron Transfer in Dye-Doped Titania Nanocrystals  
UESUGI, Yohei; NISHIKIORI, Hiromasa; TANAKA, Nobuaki; FUJII, Tsuneo (Shinshu Univ.)
- 3P006** Sonocatalytic Degradation of Dyes with Titania Beads  
ITO, Shigeo; NISHIKIORI, Hiromasa; TANAKA, Nobuaki; FUJII, Tsuneo (Shinshu Univ.)
- 3P007** Fabrication and Microspectroscopic Study of Gold Nanoholes  
YOSHII, Shinya; HIRATA, Shigeo; TAMAI, Naoto (Kwansei Gakuin Univ.)
- 3P008** Microspectroscopic Study on Photoluminescence Properties of CdTe Nanowire  
ASANO, Ayako; PAN, Lingyun; TAMAI, Naoto (Kwansei Gakuin Univ.)
- 3P009** Mechanism of a Poor Electron Injection Efficiency from Ruthenium Dye to TiO<sub>2</sub> Particles Larger than 150 nm in Diameter  
DU, Luchao; FURUBE, Akihiro; HARA, Kohjiro; KATOH, Ryuji; TACHIYA, Masanori (AIST)
- 3P010** Charge Carrier dynamics of Nitrogen-Doped Titanium Oxides Loaded with Pt or Fe Studied by Femtosecond Diffuse Reflectance Spectroscopy  
YAMANAKA, Ken-ichi; MORIKAWA, Takeshi (Toyota Central R&D Labs., Inc.)
- 3P011** Real-time Analysis of Molecular Adsorption on Waveguide Surface from Air  
TAKAHASHI, Hiromi; FUJITA, Kyoko; OHNO, Hiroyuki (Tokyo University, System Instruments CO.,LTD.)
- 3P012** Mechanism of Stabilization of Cyanine Dye Thin Film by Polysilanes upon Photo-irradiation  
ISHIDA, Syohei; HORIUCHI, Hiroaki; TANI, Katsuhiko; MATSUZAKI, Ken'ichi; TSUNODA, Kin'ichi; HOTTA, Hiroki; HASHIMOTO, Takuya; HIRATSUKA, Hiroshi (Gunma Univ.)
- 3P013** Photochemical Reaction of Protein Crystal  
TAGUCHI, Tohru; HIRATSUKA, Hiroshi; OKUTSU, Tetsuo (Gunma Univ.)
- 3P014** A Single-Molecule Spectroscopic Study on Nanoscale Dynamics in Polymer Thin Films near  $T_g$   
SUZUKI, Kota; HABUCHI, Satoshi; VACHA, Martin (Tokyo Inst. Tech.)
- 3P015** Fluorescence Enhancement of Single Luminous Spheres by Surface Plasmon Resonance of Nanostructured Metal Films  
KISHIDA, Mayuko; NAIKI, Hiroyuki; MASUO, Sadahiro; MACHIDA, Shinjiro; ITAYA, Akira (Kyoto Inst. Tech., JST/PRESTO)
- 3P016** Fluorescence Enhancement Effect by Silica-Coated Silver Nanoparticles  
NAIKI, Hiroyuki; KISHIDA, Mayuko; MASUO, Sadahiro; MACHIDA, Shinjiro; ITAYA, Akira (Kyoto Inst. Tech., JST/PRESTO)
- 3P017** A Study of Single Molecule Detection on Ir Complex  
SEKIGUCHI, Yasuhiro; HABUCHI, Satoshi; VACHA, Martin (Tokyo Institute of Technology)
- 3P018** Photon Antibunching Behavior in the Emission from Single Nanometer-sized Structures of Organic Dye Molecules  
MURAKAMI, Takumi; MASUO, Sadahiro; MASUHARA, Akito; NISHI, Nobuhiro; MURANUSHI, Mai; MATSUDA, Yoshihisa; MACHIDA, Shinjiro; KASAI, Hitoshi; OIKAWA, Hidetoshi; ITAYA, Akira (Kyoto Inst. Tech., JST/PRESTO, Tohoku Univ.)
- 3P019** Evaluation of Photon Antibunching Properties in the Emission from Single Nano-sized Molecular Assemblies of Perylene Bisimides  
MURANUSHI, Mai; MASUO, Sadahiro; MASUHARA, Akito; MURAKAMI, Takumi; MATSUDA, Yoshihisa; WANG, Li; MACHIDA, Shinjiro; KASAI, Hitoshi; TAMAI, Naoto; OIKAWA, Hidetoshi; ITAYA, Akira (Kyoto Inst. Tech., JST/PRESTO, Tohoku Univ., Kwansei Gakuin Univ.)

- 3P020** Photon Antibunching Behavior of Single Conjugated Polymer Chains in Solution  
NISHI, Nobuhiro; MASUO, Sadahiro; MACHIDA, Shinjiro; ITAYA, Akira (Kyoto Institute of Technology, JST/PRESTO)
- 3P021** Measurement of PL and EL Spectrum on the Surfaces of OLED by Microscopic Fluorescence Spectroscopy  
USAMI, Toshihiro; KODATE, Satoshi; YOSHIZAWA, Tomokazu; SUZUKA, Isamu (Nihon Univ.)
- 3P022** Excited State Dynamics of Various Biphenyl Bridged Organosilicas  
YAMANAKA, Ken-ichi; OKADA, Tadashi; GOTO, Yasutomo; OHASHI, Masataka; TANI, Takao; INAGAKI, Shinji (Toyota Central R&D Labs., Inc., Toyota Phys. Chem. Res. Inst., JST/CREST)
- 3P023** Fabrication of Electrostatically Prepared Films of C<sub>60</sub>-Ethylenediamine Adducts  
MATSUMURA, Satoshi; MATSUOKA, Ken-ichi; AKIYAMA, Tsuyoshi; YAMADA, Sunao (Kyushu Univ.)
- 3P024** Photocurrent Generatino Properties of Fullerene-Polythiophene Composite Films by Electrochemical Polymerization  
YONEDA, Hiroyuki; SUGAWA, Koichi; AKIYAMA, Tuyosi; Yamada, Sunao (Kyushu Univ.)
- 3P025** Fabrication of Gold Nanoparticle Alternate Assemblies and Their Localized Electric Field Enhancement  
KAWAHARA, Tomoaki,; SUGWA, Kosuke; AKIYAMA, Tsuyoshi; YAMADA, Sunao (Kyushu Univ.)
- 3P026** Fluorescent Probing of Surface States of Polymer Attached Carbon Nanotubes  
MARUYAMA, Takafumi; KUBOTA, Satoshi; NISHIKIORI, Hiromasa; TANAKA, Nobuaki; ENDO, Morinobu; FUJII, Tsuneo (Shinshu Univ.)
- 3P027** Magnetic Field Effects on Photoinduced Electoron-Transfer Reaction in Ruthenium Porphyrin-C<sub>60</sub> Linked Compound Using an Axial Ligand Coordination  
MOTODA, Yuki; YONEMURA, Hiroaki; YAMADA, Sunao (Kyushu Univ.)
- 3P028** Fabrication and Photoelectrochemical Application of [70]fullerene-Aliphatic Amine Assemblies  
MATSUOKA, Ken-ichi; MATSUMURA, Satoshi; AKIYAMA, Tsuyoshi; YAMADA, Sunao (Kyushu Univ.)
- 3P029** Growth of Pyrene Single Crystals on Carbon Nanofibers  
KUBOTA, Satoshi; NISHIKIORI, Hiromasa; TANAKA, Nobuaki; ENDO, Morinobu; FUJII, Tsuneo (ShinShu Univ.)
- 3P030** On Determination of Diradical Parameter Based on the Experimental Values  
KAMADA, Kenji; OHTA, Koji; KUBO, Takashi; SHIMIZU, Akihiro; NAKANO, Masayoshi; KISHI, Ryohei; FUKUI, Hitoshi; MINAMI, Takuya; KUBOTA, Kazuki; TAKAHASHI, Hideaki (AIST, Osaka Univ.)
- 3P031** Effect on the CD Properties of Isoquinoliniumnaphthalene Derivatives with Intramolecular Charge-Transfer Interaction  
NISHIZAKA, Masaki; MORI, Tadashi; YANG, Cheng; WADA, Takehiko; INOUE, Yoshihisa (Osaka Univ., Tohoku Univ.)
- 3P032** A High Level Ab Initio Molecular Orbital Theoretical Calculations on the Electronic Structures of Aromatic Excimers  
SHIRAI, Soichi; TANI, Takao; HYODO, Shi-aki; INAGAKI, Shinji (TOYOTA CENTRAL R&D LABS., INC.)
- 3P033** Analysis of Donor-Acceptor Distance-Dependence of Photo-induced Intra-protein Electron Transfer Rate in Flavoproteins  
CHOSROWJAN, Haik; TANIGUCHI, Seiji; MATAGA, Noboru; TANAKA, Fumio (Institute for Laser Technology, Mahasarakham Univ.)
- 3P034** Photosensitized Electron Transport in Vesicles Using Amphiphilic Pyrenecarboxylic Acids  
NAKO, Yuki; SASAKI, Ryo; MURATA, Shigeru (The Univ. of Tokyo)
- 3P035** Synthesis of Pyrene Derivatives Having a Cationic Hydrophilic Group and Their Photochemical Behaviors in Vesicles  
MARUYAMA, Takeshi; MOYIYA, Kimio; MURATA, Shigeru (The Univ. of Tokyo)
- 3P036** Supramolecular Photochirogenic Dimerization of Anthracene Derivatives with  $\gamma$ -Cyclodextrin and Cucurbit[8]uril  
YANG, Cheng; MORI, Tadashi; KO, Young Ho; KIM, Kimoon; INOUE, Yoshihisa (Osaka Univ.)
- 3P037** Enantiodifferentiating Photosensitized Reactions Mediated by Inherently Chiral Molecular Clips  
FUKUHARA, Gaku; KLAERNER, Frank G.; MORI, Tadashi; WADA, Takehiko; INOUE, Yoshihisa (Osaka Univ., Univ. of Duisburg-Essen)
- 3P038** Synthesis of Macrocyclic Compounds Using Photocycloaddition between Di-2-pyrones Tethered by Benzene Ring and  $\alpha,\omega$ -diolefins  
SHIMO, Tetsuro; MIYAUCHI, Hideki; SOMEKAWA, Kenichi (Kagoshima Univ.)



- 3P039** Asymmetric Photocyclization of  $\alpha$ -Dehydronaphthylalanylprolinamides via Electron Transfer  
SATO, Yuki; HARUYAMA, Yuta; IGARASHI, Tetsutaro; SAKURAI, Tadimitsu (Kanagawa Univ.)
- 3P040** Synthesis and Photoreactivity of  $\beta$ -Cyclodextrin and Glucose Derivatives Carrying Anthracene Chromophores  
MAMIYA, Hideto; KUMON, Satomi; IGARASHI, Tetsutaro; SAKURAI, Tadimitsu (Kanagawa Univ.)
- 3P041** Photocyclization of Triazole-Substituted  $\alpha$ -Dehydroarylalaninamides via Electron Transfer  
YAZAWA, Yuichi; SUZUKI, Minoru; IGARASHI, Tetsutaro; SAKURAI, Tadimitsu (Kanagawa Univ.)
- 3P042** Chemiluminescence of Dioxetanes Bearing a 1,1'-Binaphthyl-5-yl Group Modified with a Crown Ether  
WATANABE, Nobuko; HASEGAWA, Satoshi; IJUIN, Hisako; MATSUMOTO, Masakatsu (Kanagawa Univ.)
- 3P043** [3+2]-Photocycloadditions of 1-Naphthonitrile and Methyl 1-Naphthoate with Alkenes  
YOSHIMURA, Norihisa; SHIRATORI, Hideo; KUBO, Yasuo (Shimane Univ.)
- 3P044** Thermal and Photochemical Reaction Behavior of Tetraene Intermediates Derived from [3+2]-Photocycloadditions of Dicyanonaphthalenes with Alkenes  
TAGASHIRA, Kyoko; SHIRATORI, Hideo; KUBO, Yasuo (Shimane Univ.)
- 3P045** Reaction Behavior of Tetraene Intermediates Derived from [3+2]-Photocycloadditions of 1,2-Dicyanonaphthalene with Alkenes  
WATANABE, Keiko; SHIRATORI, Hideo; KUBO, Yasuo (Shimane Univ.)
- 3P046** Photochemical Reaction of F<sub>6</sub>[3<sub>3</sub>](1,3,5)Cyclophane  
AUNG, Si Si; KOGA, Toru; HATTORI, Daisuke; SHINMYOZU, Teruo (Kyushu Univ.)
- 3P047** The Photochemical Reaction of Nitrogen Containing Heterocyclic Compounds  
SASANUMA, Takashi; TANIKAWA, Hiroharu; YAGAI, Shiki; KITAMURA, Akihideo; KARATSU, Takashi (Chiba Univ.)
- 3P048** Photoinduced NO Release from 9-Nitroanthracenes in Solutions and Low-Temperature Matrices  
KUDO, Hiroshi; INUI, Hiroshi; OISHI, Shigero (Kitasato Univ.)
- 3P049** Matrix Photochemistry of 2-MeO-, 2-MeS-, and 2-MeSe-Phenyl Azide  
SAWADA, Kazuhiro; INUI, Hiroshi; OISHI, Shigero (Kitasato Univ.)
- 3P050** Photochemistry of 4-( $\omega$ -Aminoalkoxy)-4'-nitrobiphenyl and 2-( $\omega$ -Aminoalkoxy)-7-nitrofluorene: Photo-Smiles Rearrangement Revisited  
UESAKO, Naoko; TAGO, Takafumi; NORITSUGU, Keisuke; FUKUYOSHI, Shuichi; TOKUMURA, Kunihiro; NAKAGAKI, Ryoichi (Kanazawa Univ.)
- 3P051** Photochemical C-C Bond Formation between Alcohols and Olefins  
OUCHI, Akihiko; KANEDA, Masayuki; LIU, Chuanxiang; KATO, Jinichiro (AIST, Asahi Kasei Fibers Corporation)
- 3P052** Photodimerization of Chromone Derivatives and the Application to Photofunctional Materials  
SAKAMOTO, Masami; KANEHIRO, Masayuki; FUJITA, Tsutomu; MINO, Takashi (Chiba Univ.)
- 3P053** Photoepimerization of Aromatic Carboxamides Owing to the Rotation of the Ar-C(=O) Bond  
SAKAMOTO, Masami; SASAHARA, Yuichi; HASEGAWA, Yasuhiro; MINO, Takashi; FUJITA, Tsutomu (Chiba Univ.)
- 3P054** Photoreduction of 1,2-Diarylcyclopropanes by Hydroxide Ion as Electron Donor  
HAMAYA, Yoshiyuki; YOSHIMI, Yasuharu; WADA, Naoshisa; HATANAKA, Minoru (Univ. of Fukui)
- 3P055** Preparation and Fluorescence Response to Metal Ions of Phthalide Derivatives Having Picolylamino Host Function  
OKAMOTO, Hideki; MATSUI, Ayako; SATAKE, Kyosuke (Okayama Univ.)
- 3P056** Fluorescent Response of a Trifluoroacetamide Derivative of 4-Aminophthalimide to Iodide Ions  
OKAMOTO, Hideki; KONISHI, Hiroyuki; KOHNO, Mami; SATAKE, Kyosuke (Okayama Univ.)
- 3P057** Micro Reaction System Utilizing UV-B Light Emitting Diodes  
USAMI, Naoki; HORIE, Tomoaki; MATSUSHITA, Yoshihisa; SUZUKI, Tadashi; ICHIMURA, Teijirou (Tokyo Institute of Technology)
- 3P058** Reaction Mechanism of Muconic Esters during Photoisomerization in the Solid State  
NISHIZAWA, Natsuko; FURUKAWA, Daisuke; KOBATAKE, Seiya; MATSUMOTO, Akikazu (Osaka City Univ.)
- 3P059** Synthesis and Photoreactions of *N*-Substituted Phthalonimides  
TSURUI, Katsuaki; TATSUGI, Jiro (Aichi Institute of Technology)
- 3P060** Photocycloaddition Reactions of 1-Substituted 7-Azaisatin Derivatives with Alkenes  
MIURA, Maki; TATSUGI, Jiro (Aichi Institute of Technology)
- 3P061** Photochemical Reactions of Benzo[*b*]furan-2,3-diones with 2,3-Dimethylbut-2-ene  
ITO, Takayoshi; TATSUGI, Jiro (Aichi Institute of Technology)
- 3P062** Selectivity on Monoalkylation of Active Methylene Compounds via Photoinduced Electron Transfer

- OHASHI, Maki; NAKATANI, Keisuke; MAEDA, Hajime; MIZUNO, Kazuhiko (Osaka Pref. Univ.)
- 3P063** Intramolecular [3+2] Photocycloaddition of 1-Cyanonaphthalene Derivatives Bearing 2-Phenylcyclopropyl Group  
MATSUDA, Shoji; MAEDA, Hajime; MIZUNO, Kazuhiko (Osaka Pref. Univ.)
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ONO, Keishi; OHNO, Masanori; ISHIGURO, Katsuya (Yamaguchi Univ.)
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YAMAMOTO, Atsushi; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji (Osaka Univ.)
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- 3P072** Synthesis and Spectroscopic Properties of Rhodamine-Cored Light-Harvesting Dendrimer Systems  
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MIYAMOTO, Ryo; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki (Osaka Univ.)
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