

## Friday, September 10

### 13:00-14:40

- 3P001 Photosensitized Reaction of Singlet Oxygen Production from Single-Walled Carbon Nanotube  
(Chiba Univ.) KONDO, Atsushi; TAKAHARA, Shigeru
- 3P002 The patterning of the bilirubin thin-film with photo *cis-trans* isomerization and the photo-sensitivity improvement  
(Chiba Univ.) IWAMURA, Naoki; WATANABE, Takahito; HASHIMOTO, Satoki; TAKAHASHI, Atsumasa; TAKAHARA, Shigeru
- 3P003 Morphology control of hybrid layered film by photo-irradiation  
(Tokyo Metro. Univ.; JST-SORST) HAYASAKA, Yuika; NABETANI, Yu; TAKAMURA, Hazuki; SHIMADA, Tetsuya; TACHIBANA, Hiroshi; INOUE, Haruo
- 3P004 Photomodulation of the Motility of Kinesin-microtubule System  
(Hokkaido Univ.; JST-PRESTO) FUKAMINATO, Tuyoshi; KAMEI Takashi; TAMAOKI, Nobuyuki
- 3P005 Multi-functional photo-X-generators; Ampholyte compounds  
(Chiba Univ.) SATO, Yusuke; ENDO, Takatsugu; SHINJI, Atsushi; TAKAHARA, Shigeru
- 3P006 Fabrication of light-leakage type of nano-particular photocatalytic reaction system and application to photodecomposition of chlorophenols  
(Shinshu Univ.) USAMI, Hisanao; KUBO, Naoyuki; MIYAUCHI, Minato
- 3P007 Fabrication of manganese stearate LB films and characterization of photocurrent response  
(Shinshu Univ.) USAMI, Hisanao; KURODA, Shin
- 3P008 Luminescence Properties Following Direct Change of Guest Molecules in Inclusion Crystals of 9,10-Bisaminophenyletynylanthracene  
(Osaka Univ.) SUGINO, Misa; TOHNAI, Norimitsu; HISAKI, Ichiro; MIYATA, Mikiji
- 3P009 PL and OLED properties of azulene derivatives for new phosphor  
(Nihon Univ.) SHISHIDO, Ryunosuke; IWANAGA, Kota; AOKI, Hisayuki; MATSUURA, Naoya; KATAOKA, Yoshitaka; YASUNAMI, Masafumi; SUZUKA, Isamu
- 3P010 Reversible redox reaction of iron in synthetic clay for the control of adsorption behavior of dyes on the inorganic surfaces  
(Tokyo Metro. Univ.; JST-PRESTO) IWASE, Yoshitaka; SHIMADA, Tetsuya; MASUI, Dai; TACHIBANA, Hiroshi; INOUE, Haruo; TAKAGI, Shinsuke
- 3P011 Preparation of isoflavone nanoparticle colloid by laser ablation in water  
(Ehime Univ.) FUJIMURA, Tatsuya; ASAHI, Tsuyoshi
- 3P012 Photocatalytic properties of Ti-based oxide doped with Ni

- (Tokyo Univ. of Sci.; JST-PRESTO) SASAKI, Mai; SAITO, Kenji; KUDO, Akihiko
- 3P013 Pressure-sensing by probing luminescence from organic-inorganic nanocomposite  
(Tokyo Tech; Okayama Univ.; JAXA) TAMURA, Shinichi; MOCHIZUKI, Dai;  
YASUTAKE, Hiroaki; MITSUO, Kazunori; WADA, Yuji
- 3P014 Plasmonic spectroscopic properties of silver nanoblocks fabricated with single  
nanometer precision  
(Hokkaido Univ.; Zhejiang Univ.; JST-PRESTO) YOKOTA, Yukie; WANG, Li; UENO,  
Kosei; QIU, Jian-rong, MISAWA, Hiroaki
- 3P015 Etching selectivity in femtosecond laser-assisted etching of glasses: dependence on  
etching conditions  
(Univ. of Tokushima) MATSUO, Shigeki; TOMITA, Takuro; HASHIMOTO, Shuichi
- 3P016 Synthesis of cyclometalated Iridium(III) complexes within layered silicates and its  
light-emitting property  
(Tokyo Tech) SUGIYAMA, Motohiko; XU, Chen; MOCHIZUKI, Dai; WADA, Yuji
- 3P017 Theoretical Study on Photoabsorption and Reactivity of Melem Oligomers  
(Kumamoto Univ.) SUGIMOTO, Manabu; FUJINAGA, Kentaro
- 3P018 Fluorescence lifetime images of yeast cells loaded with water-soluble  
antimonyporphyrin  
(Hokkaido Univ.; Univ. of Miyazaki) ISLAM, Md. Seraju; NAKABAYASHI,  
Takakazu; KINJO, Masataka; MATSUMOTO, Jin; YASUDA, Masahide; OHTA,  
Nobuhiro
- 3P019 Laser trapping assembly of supramolecular protein depending on focal positions and  
interfaces  
(National Chiao Tung Univ.; NAIST) TU, Jing-Ru; MIURA, Atsushi; UWADA,  
Takayuki; YUYAMA, Ken-ichi; SUGIYAMA, Teruki; YAMASHITA, Ichiro;  
MASUHARA, Hiroshi
- 3P020 Laser Trapping Crystallization of L-Proline in Solution  
(National Chiao Tung Univ.; NAIST) HUANG, Chong-Wei, MIURA, Atsushi;  
UWADA, Takayuki; YUYAMA, Kenichi; SUGIYAMA, Teruki; MASUHARA, Hiroshi
- 3P021 Femtosecond Laser-Induced Crystallization of Glycine  
(National Chiao Tung Univ.; NAIST) LIU, Tsung-Han; UWADA, Takayuki; USMAN,  
Anwar; SUGIYAMA, Teruki; MASUHARA, Hiroshi
- 3P022 Electrophotoluminescence (E-PL) of  $\pi$ -conjugated polymers of poly(*p*-phenylene  
vinylene) derivatives  
(Hokkaido Univ.; National Chiao Tung Univ.) MEHATA, Mohan Singh; HSU,  
Chain-Shu; LEE, Yuan-Pern; OHTA, Nobuhiro
- 3P023 Confocal Rayleigh scattering microspectroscopic imaging of single plant cells; *Egeria  
densa*  
(National Chiao Tung Univ.; NAIST) HEE, Ping-Yu; UWADA, Takayuki;  
MASUHARA, Hiroshi
- 3P024 Electroabsorption spectra of PbSe and PbS nanoparticles in a polymer film

- (Hokkaido Univ.; Nanchang Hangkong Univ.) LIU, Xiaoming; OHSHIMA, Ruriko; IIMORI, Toshifumi; NAKABAYASHI, Takakazu; OHTA, Nobuhiro
- 3P025 Ultrafast Formation Dynamics of Triplet Exciton in Fluorene-based Conjugated Polymer Films Studied by Transient Absorption Spectroscopy  
(Kyoto Univ.; JST-PRESTO) TAMAI, Yasunari; BENTEN, Hiroaki; OHKITA, Hideo; ITO, Shinzaburo
- 3P026 Thermal isomerization of photochromic ionic liquid with phenylazo group -Analysis of the fast process on the time scale of seconds-  
(Tokyo Tech) KAWAMORI, Daiki; MONJI, Tomoo; ASAKA, Tooru; AKAI, Nobuyuki; KAWAI, Akio; SHIBUYA, Kazuhiko
- 3P027 Ultrafast Charge Transfer Reaction and Solvation Dynamics of Anthracene – Electron Donor Systems in Ionic Liquid  
(Osaka Univ.) MORISHIMA, Satoe; MURAMATSU, Masayasu; NAGASAWA, Yutaka; MIYASAKA, Hiroshi
- 3P028 Synthesis of fluorescent cholesterols bearing a naphthalimide–hydrazone fluorophore: Fluorescence properties in lipid bilayer  
(Gunma Univ.) NAKAJIMA, Ryo; YOSHIHARA, Toshitada; HOSAKA, Masahiro; TAKEUCHI, Toshiyuki; TOBITA, Seiji
- 3P029 Dynamic Electron Polarization Generated by the Excited State Relaxation of Rose Bengal in Aqueous Solution  
(Tokyo Tech) IWAMA, Masaki; MIYAKE, Yusuke; KAWAI, Akio; AKAI, Nobuyuki; SHIBUYA, Kazuhiko
- 3P030 Single-particle Spectroscopy and Time-resolved Polarization Spectroscopy of CdTe Quantum Dots Bound to DNA  
(Kwansei Gakuin Univ.) KUDO, Shinya; TAMAI, Naoto
- 3P031 Fluorescence properties of water-soluble polyenes  
(Hiroshima Univ.) ITOH, Takao
- 3P032 Photochemical properties of stilbene dendrimer with light-harvesting antenna  
(Univ. of Tsukuba) NAKAZATO, Satoshi; ARAI, Tatsuo
- 3P033 Long-range interaction with an unpaired electron in the photoexcited state: dependence on chemical bond and estimation of the coupling strength  
(Tokyo Metro. Univ.) ASANO, Motoko S.; TSUBOI, Michihiro; YAMASHITA, Kenichi; SUGIURA, Kenichi
- 3P034 Fluorescence spectral change of curcumin fine particle aqueous suspension by mixing with liposom  
(Univ. of the Ryukyus) ADANIYA, Akane; KOWATARI, Mika; TAMAOKI, Yoshiaki
- 3P035 Formation of silver nanoparticles by the laser ablation under the CO<sub>2</sub> expanded liquid  
(Nagaoka National College of Technology) MURAKAMI, Yoshinori
- 3P036 Effect of reflux of glucose-containing titania sol on performance of the photo-fuel cell electrodes prepared from the sol  
(Shinshu Univ.) ISOMURA, Kazuhiro; NISHIKIORI, Hiromasa; TANAKA, Nobuaki;

FUJII, Tsuneo

- 3P037 Crystallization of proteins induced by photochemical reaction of quinines  
(Gunma Univ.; JST-PRESTO) TAKASE, Yuta; TAGUCHI, Tohru; HORIUCHI, Hiroaki; HIRATSUKA, Hiroshi; OKUTSU, Tetsuo
- 3P038 Reduction of Lanthanide ions  $\text{Ln}^{3+}$  to  $\text{Ln}^{2+}$  ( $\text{Ln}=\text{Eu}, \text{Sm}, \text{Yb}$ ) by multiphoton excitation  
(Osaka City Univ.) ITO, Ayaka; YASUZUKA Takashi; NISHIDA, Daisuke; YATSUHASHI, Tomoyuki, NAKASHIMA, Nobuaki
- 3P039 Colloidal Crystallization by Photochemical-controlled Electrostatic Repulsion  
(Gunma Univ.; JST-PRESTO) ITOGA, Takeo; HORIUCHI, Hiroaki; OKUTSU, Tetsuo
- 3P040 Electron Transfer in Supramolecular Donor-Acceptor Dyad of Octaethylporphyrin: Comparison with Its Isomers  
(Osaka Univ.; Kyushu Univ.) FUJITSUKA, Mamoru; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio; MAJIMA, Tetsuro
- 3P041 Investigation of the light-induced crystallization technique of protein  
(Gunma Univ.; JST-PRESTO) KUROIWA, Takashi; KOBAYASHI, Kenta; HORIUCHI, Hiroyuki; HIRATSUKA, Hiroshi; OKUTSU, Tetsuo
- 3P042 Phase separation dynamics of thermo-responsive polymers in aqueous solution as revealed by a laser T-jump technique  
(Hokkaido Univ.; Osaka Univ.) KIKUCHI, Kanae; KITAMURA, Noboru; SHIMOMOTO, Hiroaki; KANAOKA, Shoukyoku ; AOSHIMA, Sadahito; TSUBOI, Yasuyuki
- 3P043 Development of highly sensitive near-IR absorption spectrometer and its application  
(AIST) YAGUCHI, Kaori; FURUBE, Akihiro; KATOH, Ryuzi
- 3P044 Subpicosecond time resolved photoluminescence of polystyrene and CdS/polystyrene nanocomposite films irradiated by UV light  
(Univ. of the Ryukyus) UCHIHARA, Toshio; MATSUDA, Chiharu; MATAYOSHI, Maiko
- 3P045 Development of new microscopic methods using absorption anisotropy for the study of the properties of antenna complexes of green sulfur bacteria  
(Tokyo Tech) FURUMAKI, Shu; HABUCHI, Satoshi; VACHA, Martin
- 3P046 Pulsed-microwave effects on the photochemical reaction of benzophenone in Brij35 micellar solution  
(Saitama Univ.) IWAMI, Noriyuki; YAGO, Tomoaki; WAKASA, Masanobu
- 3P047 Photophysical Properties of Triarylborane Compounds Having Carbazolyl Groups  
(Hokkaido Univ.) KAWANISHI, Kazuyoshi; ITO, Akitaka; SAKUDA, Eri; KITAMURA, Noboru
- 3P048 Two-photon absorption properties of oligothiophene-terminated branched Compounds  
(AIST; Tokyo Metro. Univ.) KAMADA, Kenji; OHTA, Koji; NARITA, Tomoyuki; TAKASE, Masayoshi; NISHINAGA, Tohru; IYODA, Masahiko
- 3P049 Single Molecule Fluorescence Spectroscopy of Cyclodextrin-dye Inclusion Complexes

- (Shizuoka Univ.) FUKUI, Hiroki; MITSUI, Masaaki
- 3P050 Fluorescence Quantum Yield of Azaindolizines as Novel EL Materials  
(Nihon Univ.) OHYAMA, Hironobu; NUMATA, Yasushi; OKUYAMA, Katsuhiko
- 3P051 Solvent-polarity dependent aggregation of amphiphilic imidazolium salts and their liquid crystallinity  
(Chiba Univ.) KOHMOTO, Shigeo; KAJI, Tomoaki; TAKAHASHI, Masahiro; KISHIKAWA, Keiki
- 3P052 Synthesis of Rhodamine-cored Multichromophoric Dendrimers and Their Photoluminescent Properties Evaluation  
(Shizuoka Univ.) TAKAHASHI, Masaki; YAMAMOTO, Ayato; AKIBA, Yoshiki; SENGOKU, Tetsuya; YODA, Hidemi
- 3P053 Fluorescence properties of the RNA duplexes having pyrenes and nitrobenzenes  
(Univ. of Hyogo) SAEKI, Yusuke; NAKAMURA, Mitsunobu; TAKADA, Tadao; YAMANA, Kazushige
- 3P054 Photochemical Reaction of Dinaphthylethane: Formation of Picene by Photolysis in the Presence of Aromatic Carbonyl Compounds  
(Okayama Univ.; Gunma Univ.) OKAMOTO, Hideki; YAMAJI, Minoru; KOMURA, Noriko; KUBOZONO, Yoshihiro; SATAKE, Kyosuke
- 3P055 Photochemistry of 2-(2,4-Dinitrobenzyl)pyridine Derivatives  
(Kanazawa Univ.) FUKUYOSHI, Shuichi; TOKUMURA, Kunihiko; NAKAGAKI, Ryoichi
- 3P056 Self-assembly of porphyrin derivatives possessing a chiral ester in aqueous solution  
(Ritsumeikan Univ.) TAMIAMI, Hitoshi; KOMADA, Jun; KUNIEDA, Michio
- 3P057 Synthesis of macrocyclic compound using photocycloaddition of di-2-pyrone tethered by oxyethylene units with  $\alpha, \omega$ -diolefins  
(Kagoshima Univ.) MATSUKUBO, Hideki; SHIMO, Tetsuro
- 3P058 Synthesis and photochemistry of new caged  $\text{Ca}^{2+}$  chelators  
(Toho Univ.) ASABA, Takaichi; SUZUKI, Akinobu; FURUTA, Toshiaki
- 3P059 Synthesis and photochemistry of caged nucleosides  
(Toho Univ.) SAITO, Takatsugu; SUZUKI, Akinobu; FURUTA, Toshiaki
- 3P060 Synthesis and photochemistry of new caged firefly luciferins  
(Toho Univ.) OKUIZUMI, Atsushi; SUZUKI, Akinobu; FURUTA, Toshiaki
- 3P061 Photophysical Properties of Pd(II)-bridged Porphyrin Arrays  
(Kyoto Univ.; JST-PRESTO; Nagoya Univ.) ARATANI, Naoki; SONG, Jianxin; SHINOKUBO, Hiroshi; OSUKA, Atsuhiko
- 3P062 Fluorescent Sensors for Water Based on Photo-induced Electron Transfer (PET) Characteristics  
(Hiroshima Univ.) OOYAMA, Yousuke; MATSUGASAKO, Ai; SUMOMOCHI, Minako; KOMAGUCHI, Kenji; IMAE, Ichiro; HARIMA, Yutaka
- 3P063 Mechanistic Studies on the Excitation-Wavelength Dependence of Enantiodifferentiating Photosensitized Isomerization of (Z)-Cyclooctene

- (Osaka Univ.; Tohoku Univ.) YONEDA, Daisuke; SAITO, Hirosuke; FUKUHARA, Gaku; YANG, Cheng; MORI, Tadashi; WADA, Takehiko; INOUE, Yoshihisa
- 3P064 Fluorescence emission of pyrrole derivatives having intramolecular hydrogen bonding under restricted condition  
(Univ. of Tsukuba) KUDO, Kentaro; NISHIMURA, Yoshinobu; ARAI, Tatsuo
- 3P065 The effect of surface functional groups on the photochemical properties of poly(benzyl ether) stilbene dendrimers  
(Univ. of Tsukuba) TAKIZAWA, Tsutomu; MOMOTAKE, Atsuya; NISHIMURA, Yoshinobu; ARAI, Tatsuo
- 3P066 Photochemical tautomerization and fluorescence behavior of chalcone derivatives having intramolecular hydrogen bonding  
(Univ. of Tsukuba) TASAKI, Satomi; ARAI, Tatsuo
- 3P067 Regioselective Photocyclodimerization of Olefins Pre-organized Using Host-Guest interactions  
(Shibaura Inst. Tech) IRIE, Hiromi; NAKAMURA, Asao
- 3P068 Photochemistry of Nitro-Aromatic Compounds  
(Kanazawa Univ.) KAKUTANI, Miwa; FUKUYOSHI, Shuichi; TOKUMURA, Kunihiro; NAKAGAKI, Ryoichi
- 3P069 Photochromism of 2-Hydroxy-4'-methoxychalcone / mesoporous silica composite  
(Tokyo Univ. Technol.; Shizuoka Univ.; KAIST) TAKENOUCHI, Takakazu; KAWANO, Yuta; KOHNO, Yoshiumi; TAKAGI, Katsuhiko; SHIBATA, Masashi
- 3P070 Thermal and Photochemical Reaction Behavior of Tetraene Intermediates Derived from [3+2]-Photocycloadditions of Methyl Substituted 1,4-Dicyanonaphthalenes with Styrene  
(Shimane Univ.) NOGAMI, Yuki; SHIRATORI, Hideo; KUBO, Yasuo
- 3P071 Photochemical nature of fluorogenic urea compounds with anion species  
(Univ. of Tsukuba) IKEDU, Satomi; NISHIMURA, Yoshinobu; ARAI, Tatsuo
- 3P072 Synthesis and Excimer Emission of [3.3](1,6)Pyrenophanes  
(Kanazawa Univ.) MATSUNO, Yu; MAEDA, Hajime; SEGI, Masahito
- 3P073 Development of photochemical oxygenation system sensitized by aluminum porphyrins  
(Tokyo Metro. Univ.; JST-SORST) GOMI, Yuki; KIYOOKA, Ryuichi; SHIMADA, Tetsuya; MASUI, Dai; TAKAGI, Shinsuke; TACHIBANA, Hiroshi; INOUE, Haruo
- 3P074 Synthesis of bicyclic amino-substituted dioxetanes bearing a hydroxyphenyl moiety substituted with an ethylene glycol unit and their base-induced chemiluminescence.  
(Kanagawa Univ.) WATANABE, Nobuko; TANAKA, Teruhiko; SUZUKI, Haruna; IJUIN, K. Hisako; MATSUMOTO, Masakatsu
- 3P075 Syntheses of acene monomer compounds containing  $\alpha$ -diketone unit  
(Ehime Univ.) KATO, Ryuta; KUZUHARA, Daiki; YAMADA, Hiroko; OKUJIMA, Tetsuo; UNO, Hidemitsu
- 3P076 Charge-transfer-induced chemiluminescent decomposition of bicyclic dioxetanes

- bearing a (benzothiazol-2-yl)-3-hydroxyphenyl moiety  
(Kanagawa Univ.) TANIMURA, Masatoshi; WATANABE, Nobuko; IJUIN, K. Hisako;  
MATSUMOTO, Masakatsu
- 3P077 Synthesis and Property of Hinge-Type Molecule Using Photoisomerization of Azobenzene  
(Chiba Univ.) TAKAHASHI, Masahiro; KATAGIRI, Ken; KISHIKAWA, Keiki;  
KOHMOTO, Shigeo
- 3P078 A new approach for the preparation of 1H-1,2,3-triazoles using click chemistry and photochemistry  
(Kitasato Univ.) SHIRAI, Keita; INUI, Hiroshi; OISHI, Shigeru
- 3P079 Photoexcited States of UV absorbers : Cinnamic Acid Derivatives  
(Yokohama Nat. Univ.) YUKIMARU, Shinsuke; KIKUCHI, Azusa; YAGI, Mikio
- 3P080 Synthesis and Photochemical Reactions of 1-Alkyl-7-chloro-6-azaisatins  
(Aichi Inst. of Tech.) TATSUGI, Jiro; MIZUNO, Keiichi
- 3P081 Pyrene-sensitized photochemical hydrogen generation using novel Pt molecular catalyst in vesicles  
(The Univ. of Tokyo) WATANABE, Kentaro; TAKIZAWA, Shin-ya; MURATA, Shigeru
- 3P082 Photoreactions of 10-nitro-9-anthracenecarboxylic acid and its derivatives in solutions and in low-temperature matrices  
(Kitasato Univ.) MORIKAWA, Miki; INUI, Hiroshi; OISHI, Shigeru
- 3P083 Synthesis and photophysical properties of a highly luminescent compound based on spirobifluorene  
(Tokyo Tech) SUMI, Kentaro; KONISHI, Gen-ichi
- 3P084 Dual-Supramolecular Diastereodifferentiating Photocyclodimerization of 2-Anthracenecarboxylate Tethered to Amylose  
(Osaka Univ.) NAKAMURA, Tomohiro; FUKUHARA, Gaku; YANG, Cheng; MORI, Tadashi; INOUE, Yoshihisa
- 3P085 Entrainer Effect on Enantiodifferentiating Photosensitization in Supercritical Carbon Dioxide  
(NAIST; Osaka Univ.; Tohoku Univ.) NISHIYAMA, Yasuhiro; SAITO, Hirosuke; WADA, Takehiko; INOUE, Yoshihisa; KAKIUCHI, Kiyomi
- 3P086 Orientation of  $\alpha$ -Sexithiophene on Friction-Transferred Polythiophene Film  
(AIST) MIZOKURO, Toshiko; HECK, Claire; TANIGAKI, Nobutaka
- 3P087 pH-Dependences of absorption and fluorescence spectra of 2-aminofluorene in bulk medium and AOT reverse micelles  
(Okayama Univ.) YAMAMOTO, Shunzo; KIUTI, Hitomi
- 3P088 Photoisomerization of stilbene derivatives in bovine serum albumin  
(Univ. of Tsukuba) SHIMAOKA, Yumiko; KANNA, Yoko; ARAI, Tatsuo
- 3P089 Computational Study on Reaction Mechanism of Di- $\pi$ -methane Rearrangement  
(Ochanomizu Univ.) MORI, Yukie; TAKANO, Keiko

- 3P090 Effects of L-histidine derivatives on the photodegradation of Me-TMPyP under the visible irradiation  
(Okayama Univ. of Sci.) SHIBAHARA, Saki; CHU-JYO, Yui; INOGUCHI, Masahiko; ODO, Junichi
- 3P091 Development of an efficient photoanode of perylene derivative/phthalocyanine working in the water phase  
(Hirosaki Univ.; Tokyo Tech) TANNO, Yoshinori; NAGAI, Keiji; ABE, Toshiyuki
- 3P092 Evaluation of preventive agent for phototoxic effect using the model system of folic acid decomposition photosensitized by riboflavin  
(Shizuoka Univ.) YAMAGUCHI, Hiroki; HIRAKAWA, Kazutaka
- 3P093 Photocurrent Generation in a Zinc Chlorin *J*-Aggregate  
(Ryukoku Univ.) MIYATAKE, Tomohiro; MORISHIMA, Katsuki; KASUNO, Megumi
- 3P094 Photocatalysis characteristics of phthalocyanine and fullerene bilayer for molecular hydrogen generation  
(Hirosaki Univ.; Tohoku Univ.; Tokyo Tech) CHIBA, Junpei; TAIRA, Naohiro; ITOH, Takashi; NAGAI, Keiji; ABE, Toshiyuki
- 3P095 Artificial Light-Harvesting Antenna Prepared with Self-Aggregates of Amphiphilic Zinc Chlorin Dyads  
(Ryukoku Univ.; Ritsumeikan Univ.) MIYATAKE, Tomohiro; SASAKI, Fumika; TAMIYAKI, Hitoshi
- 3P096 The Photodynamic treatment of mice's tumor by silicon-containing photosensitizer  
(Gunma Univ.; Tohoku Univ.) MASHIO, Hiroyuki; HORIUCHI, Hiroaki; HOSAKA, Masahiro; TAKEUCHI, Toshiyuki; ISHIDA, Shintaro; KYUSHIN, Soichiro; OKUTSU, Tetsuo; HIRATSUKA, Hiroshi
- 3P097 Chemoselective reduction of nitro compounds over titanium(IV) oxide photocatalyst  
(Kinki Univ.) IMAMURA, Kazuya; HASHIMOTO, Keiji; KOMINAMI, Hiroshi
- 3P098 Photosensitized Damage of Protein by P(V)porphyrin through Oxygen-independent Mechanism  
(Shizuoka Univ.; The Univ. of Tokyo) HIRAKAWA, Kazutaka; KIKUCHI, Ryo; UMEMOTO, Hironobu; SEGAWA, Hiroshi
- 3P099 Comparison of Demetalation Properties between Zinc Chlorin and Zinc Porphyrin Derivatives Possessing the Same Peripheral Substituents  
(Kinki Univ.) SAGA, Yoshitaka; HOJO, Sayaka; HIRAI, Yuki
- 3P100 Contribution of Fulvic Acid to the Photochemical Formation of Fe(II)  
(Univ. of the Ryukyus) ARAKAKI, Takemitsu; SAITO, Kiwamu; OKADA, Kouichirou; NAKAJIMA, Hitomi
- 3P101 Remarkable photoresponse near the superconducting transition temperatures in the quasi-two-dimensional organic superconductor  $\beta$ -(BEDT-TTF)<sub>2</sub>I<sub>3</sub>  
(Hokkaido Univ.) SABETH, Farzana; IIMORI, Toshifumi; NAKAHATA, Takayuki; NAITO, Toshio; OHTA, Nobuhiro
- 3P102 Identification of reaction intermediates of photochemical CO<sub>2</sub> reduction sensitized by

rhenium bipyridine complexes

(Tokyo Metro. Univ; JST-SORST) KOU, Youki; SHIMADA, Tetsuya; MASUI, Dai; TAKAGI, Shinsuke; TACHIBANA, Hiroshi; INOUE, Haruo

3P103 Structure changes in thermal deactivation process in phenylpyrazole iridium(III) complexes

(Univ. of Toyama; Chiba Univ.) SHIMOTORI, Kohta; TSUCHIYA, Kazuyoshi; KARATSU, Takashi; IWAMURA, Munetaka; NOZAKI, Koichi

3P104 Photocatalytic properties of Iridium(III) complexes-zeolite nanohybrids

(Tokyo Tech) XU, Chen; MOCHIZUKI, Dai; WADA, Yuji

3P105 Characterization and visible light activity of P-doped TiO<sub>2</sub> synthesized with cyclohexyl phosphine

(Fukuoka Univ.) IWASE, Motoki, KOKUBU, Shinichiro; YAMADA, Keiji, KURISAKI, Tsutomu, WAKITA, Hisanobu

3P106 Synthesis and Photophysical Properties of Lanthanide(III) Complexes with Tripodal and Dipodal Imidazole Ligands

(Toho Univ.; Aoyama Gakuin Univ.) YANAGI, Katsuya; KACHI-TERAJIMA, Chihiro; KITAZAWA, Takafumi; HASEGAWA, Miki

3P107 Reaction rate of dye decomposition process inside a photocatalytic microreactor

(Chuo Univ.) TSUCHIYA, Naomi; ODA, Kazuyo; ISHIZAKA, Yuri; SATOU, Toshimitsu; KATAYAMA, Kenji

3P108 Photo-induced Electron Transfer in Artificial Protein Bearing a Ruthenium Complex as the Core

(Kitasato University; JST-PRESTO) SHIINA, Yoshimi; OISHI, Shigero; ISHIDA, Hitoshi

3P109 Hydroxylation of benzene over a platinum-loaded tungsten(VI) trioxide photocatalyst (Hokkaido Univ.) TOMITA, Osamu; ABE, Ryu; OHTANI, Bunsho

3P110 Hydrothermal synthesis of rectangular WO<sub>3</sub> particles and their photocatalytic activity

(Hokkaido Univ.) WAKUI, Atsushi; ABE, Ryu; OHTANI, Bunsho

3P111 Effect of co-catalyst loading on oxygen generation from water over tantalum oxynitride photocatalysts

(Hokkaido Univ.; The Univ. of Tokyo) HARADA, Aiko; ABE, Ryu; DOMEN, Kazunari; OHTANI, Bunsho

3P112 Syntheses of novel multi-coordinated complex for highly active photochemical reduction of CO<sub>2</sub>

(Tokyo Metro. Univ.; JST-PRESTO) KURIMOTO, Kazunori; MASUI, Dai; SHIMADA, Tetsuya; TAKAGI, Shinsuke; TACHIBANA, Hiroshi; INOUE, Haruo