

## Poster Presentation: September 4 (Mon) 18:00 – 19:40

Odd number (18:00 - 18:50) Even number (18:50 – 19:40)

- 1P01** Investigation of CO<sub>2</sub> Reduction Using Supramolecular Photocatalysts Immobilized on Solid Surface (Tokyo Tech.) ○D. Saito • Y. Yamazaki • O. Ishitani
- 1P02** Light Emission Characteristics of Hyperbranched Copolymer with Photon Upconversion Dyes System (NIT, Kitakyushu College • Orient Chemical Industries Co., Ltd.) ○Y. Urata • Y. Yamasaki • T. Nagamura • H. Yamane
- 1P03** Selective photoreduction of nitrogen oxides on copperdoped covalent triazine framework/TiO<sub>2</sub> hybrid material (Osaka Univ. • PRESTO-JST) ○T. Tatebe • S. Yamamura • R. Sugimoto • T. Harada • K. Kamiya • S. Nakanishi
- 1P04** Thermo-responsible crystal violet lactone composite film enabling control of both blue emission and coloration (Chiba Univ.) ○A. Wakushima • K. Nakamura • N. Kobayashi
- 1P05** Inducing Visible Light Response by Nitrogen/Fluorine Codoping of Rutile Titanium Oxide (Tokyo Tech.) ○A. Miyoshi • K. Maeda,
- 1P06** Non-linear fluorescence switching using FRET between polymer chains covering silica nanoparticle (Osaka City Univ.) ○K. Shimizu • D. Kitagawa • S. Kobatake
- 1P07** Photocatalytic water oxidation by pyridyl-linkerfunctionalized Ru(II) photosensitizers (Hokkaido Univ.) ○H. Otsuka • M. Yoshida • A. Kobayashi • M. Kato
- 1P08** Properties of photon upconverted emission based on triplet–triplet annihilation of organic molecules in silica gel (Shinshu Univ.) ○Y. Komatsu • H. Nishikiori
- 1P09** Photocatalytic properties of Rh- and Ir-doped oxides consisting of metal cations with d<sup>10</sup> electron configuration under visible light irradiation (Tokyo Univ. Sci.) ○K. Nakagawa • A. Iwase • A. Kudo
- 1P10** Enantioselective luminescence enhancement of chiral Ru(phen)<sub>3</sub><sup>2+</sup> complex by interaction with DNA (Chiba Univ.) ○H. Minami • K. Nakamura • N. Kobayashi
- 1P11** Near-infrared photoreactions with Au-TiO<sub>2</sub> systems based on plasmon induced charge separation (Kyushu Univ.) ○Y. Sota • Y. Takahashi • S. Yamada
- 1P12** Nonlinear photoresponse based on strong electronic coupling between two photochromic sites (Aoyama Gakuin Univ.) ○A. Tokunaga • K. Mutoh • J. Abe
- 1P13** Synthesis and infrared applications of plasmonic compound nanoparticles (The Univ. Tokyo) ○S. Lee • H. Nishi • T. Tatsuma
- 1P14** Analysis of adsorption distribution of divalent cationic dye on the surface of anionic clay nanosheet using selffluorescence quenching as a probe (Tokyo Metropolitan Univ.) ○Y. Osaki • D. Yamamoto • T. Shimada • S. Takagi • H. Inoue

- 1P15** Electrochemical control of optical properties of organic dye molecules strongly coupled with localized surface plasmons (Hokkaido Univ.) ○F. Kato · H. Minamimoto · K. Murakoshi
- 1P16** Fluorescence Detection of Singlet Oxygen Using Intramolecular Electron Donor-Acceptor Dyads (Hokkaido Univ.) ○R. Kohara · K. Yuyama · V. Biju
- 1P17** Three-Photon Absorption Properties of D- $\pi$ -A Type Extended Fluorene Derivatives with Various Intensities of Acceptor (AIST · Kwansai Gakuin Univ. · ENS-Lyon) ○R. Mizutani · Y. Bretonnière · P. Baldeck · C. Andraud · K. Kamada
- 1P18** Application to quinolyl-pyrroles as an orthogonal fluorescent sensor (Utsunomiya Univ.) T. Oba · ○R. Shinotsuka · S. Ito
- 1P19** Structural control of polydiacetylene hollow nanomaterials and their optical property (Tohoku Univ. · NIMS) ○W. Ito · R. Sato · T. Onodera · Y. Takeda · H. Oikawa
- 1P20** Single particle spectroscopy of Photosystem I towards the attribution of function to the structure (Tokyo Tech. · Charles Univ.) ○S. Hatazaki · H. Lokstein · S. Hirata · M. Vacha
- 1P21** Phase transition dynamics of LCs using transient grating method and max entropy analysis (Chuo Univ.) ○K. Nagasaka · K. Katayama · W. Y. Sohn
- 1P22** Lanthanide(III) luminescence turn-on by photo- and chemical-oxygenation of  $\beta$ -diketone ligands having pyrrole rings (Tokyo Univ. Sci. · Nara Inst. Sci. Tech. · PRESTO, JST) ○A. Kaito · T. Nakagawa · Y. Kita · T. Kawai · J. Yuasa
- 1P23** Two-photon absorption properties of thioguanosine and dithioguanosine (Aoyama Gakuin Univ.) ○S. Ando · T. Isozaki · T. Suzuki
- 1P24** Highly enhanced emission of visible-light from core-dual shell hybridized nanoparticles (Tohoku Univ.) ○N. Sakamoto · T. Onodera · T. Dezawa · Y. Shibata · H. Oikawa
- 1P25** Fluorescence lifetime measurement under an optical microscope on the basis of pump-dump scheme (Osaka Univ.) ○S. Okamoto · M. Muramatsu · S. Ito · H. Miyasaka
- 1P26** Adsorption and emission behavior of pyridine derivatives on clay surface (Tokyo Metropolitan Univ. · AIST) ○R. Nakazato · M. Motohashi · Y. Sonoda · T. Shimada · S. Takagi
- 1P27** Observation of nuclear wavepacket dynamics and control reaction on multiphoton cycloreversion reaction of a diarylethene derivative (Osaka Univ. · Osaka City Univ.) ○Y. Tachii · H. Sotome · S. Kobatake · H. Miyasaka
- 1P28** Handedness and Wavelength Tunable Circularly Polarized Luminescence of Hydrogen-Bonded Chiral Bisamidine Supramolecular Assembly (Rikkyo Univ. · Nara Inst. Sci. Tech.) ○Y. Kansaku · N. Suzuki · M. Fujiki · M. Yamanaka
- 1P29** Time-Resolved EPR Study on Photoinduced ChargeTransfer Trap State in Thiophene-Thiazolothiazole Copolymer Film (Kobe Univ. · Hiroshima Univ.) ○Y.

Yamamoto • T. Ako • T. Tachikawa • I. Osaka • Y. Kobori

- 1P30** Reduction of charge injection barrier for diarylethene organic semiconductor by pre-irradiation with UV light and causing increase of the closed-ring isomer near the electrode (Kyoto Univ. • NIMS) ○S. Shimada • K. Higashiguchi • R. Hayakawa • Y. Kurokawa • Y. Wakayama • K. Matsuda
- 1P31** Ratiometric luminescence thermometry based on crystalfield splitting at the extremely narrow  $^5D_0 \rightarrow ^7F_2$  transition band of nona-coordinated Eu(III) complexes (Tokyo Univ. Sci. • PRESTO-JST) ○Y. Okayasu • J. Yuasa
- 1P32** Synthesis and emitting behaviors of a new mechanofluorochromic material based on distyrylbenzene (Muroran Inst. Tech. • Hokkaido Univ.) ○R. Kaneko • T. Ara • S. Yoneta • Y. Sagara • N. Tamaoki • H. Nakano
- 1P33** Development of non-linear optical responsive fast negative photochromic molecule (Aoyama Gakuin Univ.) ○I. Yonekawa • K. Mutoh • J. Abe
- 1P34** Photomechanical behaviors of the films of azobenzenebased amorphous molecular materials prepared on soft surfaces (Muroran Inst. Tech.) ○A. Kitano • R. Ichikawa • H. Nakano
- 1P35** Spatially-resolved analysis of organic-inorganic hybrid perovskite solar cells using laser scanning photocurrent and photoluminescent microscopy (Rikkyo Univ.) ○Y. Saito • M. Mitsui
- 1P36** STM Observation of 2-D Self-Assembly of Photochromic Diarylethenes Having Oligopeptide Chains at the Liquid/ Graphite Interface and Its Photoresponsive Behavior (Kyoto Univ.) ○N. Nishitani • T. Hirose • K. Matsuda
- 1P37** Properties of photofuel cells using titania and cellulose films (Shinshu Univ.) ○Y. Takizawa • H. Nishikiori
- 1P38** Control of photocyclization quantum yield by substituent at the reactive position for thiophene-S,S-dioxidized diarylethenes having benzofuran ring at the ethene moiety (Osaka City Univ.) ○Y. Nakai • D. Kitagawa • S. Kobatake
- 1P39** Control of water reduction reaction by metal nanostructure deposited p-type semiconductor electrode (Hokkaido Univ.) ○M. Fujii • H. Minamimoto • K. Murakoshi
- 1P40** Photoinduced LC phase changes of the triphenylene derivatives having azobenzene mesogens via ether linkages (Ryukoku Univ. • Nara Inst. Sci. Tech.) ○H. Matsumoto • N. Kawahara • K. Uchida • Y. Shimizu
- 1P41** Slow charge transfer process over a few nanoseconds in heterostructured  $CH_3NH_3PbBr_{3-x}I_x$  (Kobe Univ.) ○I. Karimata • Y. Kobori • T. Tachikawa
- 1P42** Nonlinear fluorescence photoswitching of a fluorescent crystalline diarylethene (Kumamoto Univ. • Osaka City Univ. • Tohoku Univ.) ○S. Ishida • D. Kitagawa • S.

- Kobatake • T. Onodera • H. Oikawa • S. Kim • T. Ogata • S. Kurihara • T. Fukaminato
- 1P43** Photoluminescence spectra of  $\text{CH}_3\text{NH}_3\text{PbBr}_3$  perovskite nanocrystals (Yamagata Univ. • ROEL • Hokkaido Univ. • KU Leuven) ○K. Umemoto • Y. Tezuka • H. Uji-i • A. Masuhara
- 1P44** A low-biased photoelectrochemical water-splitting system of tungsten oxide photoanode featuring organophotocathode (Hirosaki Univ. • Tokyo Tech.) ○Y. Kawai • K. Nagai • T. Abe
- 1P45** Synthesis and Photoelectrochemical Property of Near-IR Responsive  $\text{Ag}_8\text{SnSe}_6$  Nanoparticles (Nagoya Univ.) ○T. Takiyama • T. Kameyama • T. Torimoto
- 1P46** Photo- and Thermo-induced Mechanical Motion of Aminosalicylideneaniline Crystals (Waseda Univ. • Tokushima Univ.) ○J. Komiya • T. Taniguchi • D. Yamanaka • A. Furube • H. Koshima • T. Asahi
- 1P47** Single-molecule fluorescence spectroscopy of D- $\pi$ -A- $\pi$ -D quadrupolar dyes: Environmental and conformational effects on fluorescence characteristics (Rikkyo Univ. • Shizuoka Univ.) ○T. Mizukami • S. Inoue • K. Kobayashi • M. Mitsui
- 1P48** Efficient electro-cycloreversion reactivity of dithienylthiazole and dibenzothienylthiazole (Nara Inst. Sci. Tech. • CEMES-CNRS • Natl. Taiwan Univ. Sci. Tech.) ○R. Asato • J. P. Calupitan • W.-R. Shie • T. Nakashima • J.-C. Jiang • T. Kawai
- 1P49** Correlation between synthesis condition and emission behavior of  $\text{CsPbI}_3$  perovskite quantum dot (Kwansei Gakuin Univ.) ○H. Yoshimura • M. Yamauchi • S. Masuo
- 1P50** Photofunctional disilane bridged donor-acceptor molecules (The Univ. Tokyo) ○T. Usuki • M. Shimada • Y. Yamanoi • H. Nishihara
- 1P51** Correlation between emission photon statistics of single quantum dots and pulse-width of excitation laser (Kwansei Gakuin Univ.) ○N. Yano • S. Masuo
- 1P52** Utilization of Electron Tomography Technique for Realspace Analysis of Excitation Energy Transfer in Quantum Dot Assemblies (Hokkaido Univ.) ○I. Akita • Y. Ishida • T. Yonezawa
- 1P53** Time resolved spectroscopic study on laser-induced phase transition of phthalocyanine nanoparticle colloid (Ehime Univ.) ○R. Kihara • Y. Ishibashi • T. Asahi
- 1P54** Fabrication of titanium oxide ultra thin film encapsulating noble metal nanoparticle using surface sol-gel method and photocatalytic properties (The Univ. Shiga Pref.) ○S. Mitsukawa • T. Akiyama • T. Oku
- 1P55** Photocatalytic hydrogen evolution reaction driven by Pt supported CdS-NR and  $[\text{M}(\text{CN})_6]^{4-}$  (Hokkaido Univ.) ○H. Kitano • M. Yoshida • A. Kobayashi • M. Kato
- 1P56** Fabrication of chlorosomal self-aggregates to cover “Green Gap” region (Ritsumeikan Univ.) ○S. Matsubara • H. Tamiaki
- 1P57** Photoenergy conversion by using 3D plasmonic photoanode loaded by gold nanoparticles (Hokkaido Univ. • Tokyo Metropolitan Univ. • Natl. Chiao Tung Univ.) ○R. Takakura • T.

- Oshikiri • T. Kondo • K. Ueno • H. Masuda • H. Misawa
- 1P58** Peptide-fullerene complexes: photo-induced inhibitions of amyloid  $\beta$  fibrillation and cell death (Tohoku Univ.) ○M. Kawakami • N. Hasunuma • T. Nakabayashi
- 1P59** Chiroptical property of HgS nanoparticles (Nara Inst. Sci. Tech.) ○J. Kuno • T. Kawai • T. Nakashima
- 1P60** Photosensitized oxidative damage of tyrosinase by phosphorus(V) porphyrin complexes (Shizuoka Univ., Hamamatsu Univ. Sci. Med.) ○D. Ouyang • D. Miyake • S. Okazaki • K. Hirakawa
- 1P61** Synthesis of Eu oxide nanoparticles using nonanuclear Eu(III) cluster (Hokkaido Univ.) ○K. Koide • T. Nakanishi • Y. Kitagawa • K. Fushimi • S. Fujii • N. Kitamura • Y. Hasegawa
- 1P62** Photochemical Reaction of Bis-Thymine Derivatives in Selfassembly (Waseda Univ. • Monash Univ.) A. Udagawa • ○M. Inada • A. Al-Shereiqi • H. Koshima • K. Saito • T. Asahi
- 1P63** Asymmetric photochemical reaction involving dynamic crystallization (Chiba Univ. • Tokushima Univ.) ○N. Uemura • H. Ishikawa • F. Yagishita • Y. Kasashima • Y. Yoshida • T. Mino • M. Sakamoto
- 1P64** Photochemical radical addition of cyclic acetals to olefins in solvent using *t*-Bu<sub>2</sub>O<sub>2</sub> (Nihon Univ.) M. Hayakawa • ○H. Xu • T. Aoyama • A. Ouchi
- 1P65** Electrochemical self-assembly of CuSCN-DAST hybrid thin films (Yamagata Univ. • Linz Univ. • The Univ. Vermont) ○Y. Tsuda • K. Uda • H. Sun • L. Sun • S. Okada • A. Masuhara • P. Stadler • N. Sariciftci • M. White • T. Yoshida
- 1P66** Intramolecular steric effects on the photon production efficiency of the imidazopyrazinone chemiluminescence (Univ. Electro-Communications) ○Y. Kanai • S. Maki • T. Hirano
- 1P67** Development of NUV-purple ultrashort pulse laser to study ultrafast electronic and vibrational dynamics in general photo reaction (Kanagawa Univ.) ○S. Hashimoto • A. Yabushita • K. Okamura • I. Iwakura
- 1P68** Solvent-dependent isomerization and absorption characteristics of the asymmetric bianthrone derivative (Osaka Univ.) ○N. Nagamachi • Y. Hirao • T. Nishiuchi • T. Kubo
- 1P69** Photoreaction of protonated photomerocyanine in cyclodextrin aqueous solution (Fukui Univ. Tech.) ○T. Takeshita • M. Hara
- 1P70** Synthesis of caged cyclodextrin and its application to model biological membrane (Nara Inst. Sci. Tech.) ○S. Maehara • K. Takahashi • Y. Nishiyama • M. Kitamata • S. Suetsugu • K. Kakiuchi
- 1P71** The elucidation of the adsorption distribution of cationic porphyrins on the clay surface by energy transfer as a molecular ruler (Tokyo Metropolitan Univ. • Tokyo Univ. Sci., Yamaguchi) ○A. Nakayama • J. Mizuno • Y. Ohtani • T. Shimada • S. Takagi
- 1P72** Improvement of Organic Photoreactions by the Difference of Refractive Index under Slug

- Flow Conditions in Flow Microreactors (Nara Inst. Sci. Tech.) ○J. Noguchi • M. Nakano • Y. Nishiyama • K. Kakiuchi
- 1P73** High Density Adsorption of Cationic Porphyrin on Exfoliated Titania Nanosheet (Tokyo Metropolitan Univ.) ○K. Sano • A. Sonotani • D. Yamamoto • T. Shimada • H. Inoue
- 1P74** Photoisomerization and fluorescence characteristics of dendrimer aggregates having stilbene moiety at the core in aqueous solution (Univ. Tsukuba) ○H. Sakurai • T. Arai
- 1P75** Luminescence property of polymeric chain-structured helical lanthanide complexes with highly aggregation (Aoyama Gakuin Univ.) ○S. Kanno • A. Ishii • M. Hasegawa
- 1P76** Photon Upconversion of a Dyad Composed of Two Diphenylanthracenes Linked by an Adamantane Unit (Osaka Pref. Univ.) ○M. Kanoh • Y. Matsui • T. Ogaki • E. Ohta • H. Ikeda
- 1P77** Development of a dual energy donor system in liquid crystalline terbium complex (Aoyama Gakuin Univ. • The Univ. Tokyo • JASRI / SPring-8) ○S. Mizushima • J. Uchida • A. Ishii • S. Kawaguchi • K. Sugimoto • T. Kato • M. Hasegawa
- 1P78** Photon Upconversion Depending on the Configuration of Two Diphenylanthracenes Linked by a Cage Moiety (Osaka Pref. Univ.) ○Y. Kokita • Y. Matsui • Y. Kuramoto • T. Ogaki • E. Ohta • H. Ikeda
- 1P79** Photosensitization energy transfer in seven-coordinate poly-nuclear Tb(III) complexes (Hokkaido Univ.) ○P. P. Ferreira Da Rosa • Y. Kitagawa • T. Nakanishi • K. Fushimi • Y. Hasegawa
- 1P80** PET promoted reactions using new type of organic photocatalyst (Univ. of Fukui) ○T. Furutani • M. Yamawaki • Y. Yoshimi
- 1P81** Novel organic CT salts employing 1,3- bis(dicyanomethylidene)indan anion as a donor (Yamagata Univ. • Osaka Univ. • The Univ. Vermont) ○T. Nohara • T. Yasuhara • H. Katagiri • K. Nakayama • J. Matsui • A. Masuhara • M. S. White • Furis Madalina • H. Randall • T. Yoshida
- 1P82** Synthesis of macrocyclic lactones by PET promoted decarboxylation (Univ. of Fukui) ○T. Iwasaki • Y. Yoshimi
- 1P83** Effects of electric field at the Au-TiO<sub>2</sub> interface on quantum efficiencies of plasmon-induced charge separation (The Univ. Tokyo) ○T. Ishida • T. Tatsuma
- 1P84** Circularly polarized luminescence (CPL) from chiral peptide/Eu-hybride luminophore (Kindai Univ. • Nara Inst. Sci. Tech.) ○T. Sato • K. Nishi • M. Kitamatsu, • M. Fujiki • ○Y. Imai
- 1P85** Fluorescence analysis on laser trapping-induced amyloid fibril formation of cytochrome c (Natl. Chiao Tung Univ. • Nara Inst. Sci. Tech. • Hokkaido Univ.) ○C.-J. Chang • Y. Hayashi • S. Hirota • K. Yuyama • H. Masuhara • T. Sugiyama
- 1P86** Practical live cell imaging using photoswitchable diarylethene doped fluorescent polymer

- dots (Osaka Univ. • Kumamoto Univ.) ○Y. Osakada • T. Fukaminato • Y. Ichinose • M. Fujitsuka • Y. Harada • T. Majima
- 1P87** Overlap integral dependence of ultrafast energy transfer in hybrid light-harvesting antenna complexes. (Osaka Univ. • Nagoya Inst. Tech. • Osaka City Univ. • Nagoya Univ. • Ritsumeikan Univ.) ○Y. Yoneda • A. Gotoh • T. Noji • M. Kondo • H. Miyasaka • S. Itoh • Y. Nagasawa • T. Dewa
- 1P88** Multiphoton ring-opening reaction of a dibenzofurylene derivative induced by femtosecond two-pulse excitation: dependence of the reaction yield on the wavelength of the second excitation pulse (Osaka Univ.) ○R. Sei • T. Nagasaka • Y. Tachii • H. Sotome • H. Miyasaka
- 1P89** Self-assembly of asymmetric diarylethene studied by STM at the solid/liquid interface (Kyoto Univ.) ○R. Li • T. Hirose • K. Matsuda
- 1P90** Fabrication of Highly Efficient TiO<sub>2</sub> Photoanodes by Atomized Spray Pyrolysis Deposition (Toyota Tech. Inst.) ○C. S. K. Ransinghe • A. Yamakata
- 1P91** Single Particle Luminescence Spectroscopy of Perovskite-Halide Nanocrystals (Tokyo Tech.) ○D. K. Sharma • S. Hirata • M. Vacha
- 1P92** Laser Flash Photolysis Study on One-Photon Induced Water Oxidation Catalyzed by Aluminum Porphyrin on TiO<sub>2</sub> nanoparticles (Tokyo Metropolitan Univ. • Miyazaki Univ.) ○S. Mathew • F. Kuttassery • D. Yamamoto • S. Onuki • Y. Nabetani • H. Tachibana • H. Inoue
- 1P93** Laser trapping-controlled assembling of a tetraphenylene derivative (Natl. Chiao Tung Univ. • Tokyo Tech. • Nara Inst. Sci. Tech.) ○J.-R. Lin • S.-F. Wang • F. Ishiwari • T. Fukushima • H. Masuhara • T. Sugiyama
- 1P94** Laser trapping-controlled crystal growth and dissolution of L-phenylalanine (Natl. Chiao Tung Univ. • Hokkaido Univ. • Nara Inst. Sci. Tech.) ○D.-S. Chiou • Y.-E. Liu • K. Yuyama • H. Masuhara • T. Sugiyama
- 1P95** Laser trapping dynamics of cyclodextrins accompanying asymmetric photodimerization (Natl. Chiao Tung Univ. • Sichuan Univ. • Osaka Univ. • Nara Inst. Sci. Tech.) ○T.-W. Shih • C.-L. Hsu • X. Wei • C. Yang • Y. Inoue • T. Sugiyama
- 1P96** Optical trapping-controlled chiral crystallization of sodium chlorate (Natl. Chiao Tung Univ. • Hokkaido Univ. • Chiba Univ. • Nara Inst. Sci. Tech.) ○A.-C. Cheng • S. Ishida • H. Niinomi • T. Omatsu • K. Sasaki • T. Sugiyama
- 1P97** Bubble generation in L-phenylalanine solution by laser irradiation at solution surface (Natl. Chiao Tung Univ. • Hokkaido Univ. • Nara Inst. Sci. Tech.) ○J.-K. Chen • K. Yuyama • H. Masuhara • T. Sugiyama
- 1P98** Spectroscopic study on laser trapping-assembling dynamics of nanoparticles at solution

- surface (Natl. Chiao Tung Univ. • Hokkaido Univ. • Nara Inst. Sci. Tech.) ○S. F. Wang • T. Kudo • K. Yuyama • T. Sugiyama • H. Masuhara
- 1P99** Two electron water oxidation catalyzed by silicon porphyrin (Tokyo Metropolitan Univ.) ○S. N. Remello • F. Kuttassery • K. Sano • D. Yamamoto • H. Tachibana • H. Inoue
- 1P100** A single molecule based approach to radical pair mechanism (The Univ. Tokyo) ○N. Ikeya • L. M. Antill • J. R. Woodward
- 1P101** Magnetosensitive flavin photochemistry in micron-scale reaction environments (The Univ. Tokyo) ○L. M. Antill • J. R. Woodward
- 1P102** Supramolecular Asymmetric Photochirogenesis Mediated by Synthetic Antibody: Controlling the photoreaction by external factors included solvent effects (Tohoku Univ. • Kyoto Univ. • Osaka Univ.) ○W. Yospanya • S. Sakamoto • Y. Inoue • M. Nishijima • T. Wada
- 1P103** Time-resolved and pulsed electron paramagnetic resonance study on the singlet-fission materials (Kobe Univ. • Osaka Pref. Univ.) ○H. Nagashima • S. Kawaoka • Y. Matsui • T. Tachikawa • H. Ikeda • Y. Kobori
- 1P104** Development of Novel Scanning Microscope for Excitation Spectra Measurement (Tohoku Univ. • Okayama Univ. • Nagoya Univ.) ○S. Jana • T. Kobayashi • R. Nagao • T. Noguchi • Y. Shibata
- 1P105** Enhanced photocatalytic hydrogen production from aqueous solution containing sulfide and sulfite over Cu doped ZnS/zeolite composites (Tokyo Univ. Sci.) ○T. Kondo • M. Nagata

## Poster Presentation: September 5 (Tue.) 12:50 – 14:30

Odd number (12:50 - 13:40) Even number (13:40 – 14:30)

- 2P01** Transient absorption measurements of triplet-triplet annihilation-upconversion process in organic thin films (Univ. of Toyama) ○R. Sugishita · M. Iwamura · K. Nozaki
- 2P02** Electronic Structure of Excited Triplet State of Phosphorescent Organic Inclusion Crystals at Room Temperature As Studied by Time-resolved EPR (Kobe Univ. · Kyusyu Univ. · JST-PRESTO) ○F. Ema · T. Ono · Y. Fukuda · Y. Hisaeda · H. Nagashima · T. Tachikawa · Y. Kobori
- 2P03** Evaluation of up-conversion based on triplet-triplet annihilation in polymeric micelles (Shizuoka Univ.) ○S. Harada · H. Kawai
- 2P04** Effect of hydrophobic DNA on triplet-triplet annihilation up-conversion (Shizuoka Univ.) ○M. Nagata · H. Kawai
- 2P05** Development of upconversion system in aqueous solution by using cationic dyes organized on DNA and its solid thin film (NIT, Kitakyushu College · Shizuoka Univ. · AIST) ○H. Morita · A. Fukuzaki · T. Nagamura · H. Kawai · N. Matsuda · T. Okawara · K. Takehara
- 2P06** Step- $\pi$ -conjugated polymers (1) Photochemical behavior of macromolecular wire forming microscopically heterogeneous environment (Kansai Univ.) ○K. Takagi · H. Guo · H. Aota
- 2P07** Step- $\pi$ -conjugated polymers (2) Synthesis and photochemical behavior of A, B-block type amphiphilic macromolecular wire (Kansai Univ.) ○K. Yoshida · K. Watanabe · H. Guo · H. Aota
- 2P08** Step- $\pi$ -conjugated polymers (3) Synthesis and electron transfer evaluation of amphiphilic macromolecular wire having different energy levels (Kansai Univ.) ○C. Fujiwara · H. Guo · H. Aota
- 2P09** Step- $\pi$ -conjugated polymers (4) Synthesis and Electron transfer evaluation of amphiphilic A,B-block type macromolecular wire using trihydroxybenzene (Kansai Univ.) ○S. Hirata · H. Guo · H. Aota
- 2P10** Step- $\pi$ -conjugated polymers (5) Synthesis of amphiphilic macromolecular wire with a donor and acceptor at terminal (Kansai Univ.) ○H. Mitani · D. Ohshima, H. Aota
- 2P11** Step- $\pi$ -conjugated polymer (6) Synthesis of narrow bandgap oligomers

- interacting with platinum colloids (Kansai Univ.) ○Y. Iwakura•H. Guo•H. Aota
- 2P12** Step- $\pi$ -conjugated polymers (7) Synthesis of A, B-block type of polymers for interacting with platinum colloid (Kansai Univ) ○K. Matsumura•H. Guo•H. Aota
- 2P13** Step- $\pi$ -conjugated polymers (8) Synthesis of functional polymer and applying to electrode materials (Kansai Univ.) ○K. Maruyama, H. Guo, H. Aota
- 2P14** Step- $\pi$ -conjugated polymers (9) Synthesis and photochemical behavior of polymer with photosensitizer for multi-step electron transfer (Kansai Univ.) ○T. Kasugai•H. Guo•H. Aota
- 2P15** Syntheses and properties of narrow-bandgap polymers (12) Development of electronic materials using post- crosslinking reaction (Kansai Univ.) ○T. Ohashi•H. Guo•H. Aota
- 2P16** Syntheses and properties of narrow-bandgap polymers (13) Evaluation of a novel narrow bandgap polymer for application to organic thin film solar cell (Kansai Univ.) ○T. Karasuda•H. Guo•H. Aota
- 2P17** Thermoresponsiveness of structural colored balloons composed of a polymer showing LCST (Kyoto Univ.) ○N. Morita• K. Higashiguchi• K. Matsuda
- 2P18** Emission property of ultralong phosphorescence from organic crystals of benzophenone derivatives (Chiba Univ.) ○S. Noda•Y. Jibu•Y. Yoshikawa•T. Karatsu
- 2P19** Preparation of  $WO_3$ - $TiO_2$  Composite Photocatalysts for Complete and Efficient Decomposition of Aromatic Compounds under Visible Light Irradiation (Kyoto Univ.) ○R. Abe•M. Shigemitsu•O. Tomita•M. Higashi
- 2P20** Specific color change of  $\beta$ -catotene complexed with inorganic hosts (Shizuoka Univ. •Kyushu Univ. •Tokyo Univ. Technol.) ○Y. Kohno•R. Asaba•N. Hirose•Y. Shiota•M. Shibata•Y. Maeda
- 2P21** Effect of hydrogen bonding in trans-cis isomerization of *N,N*-diacetyldindigo (Univ. Ritsumeikan) ○H. Nakagawa•Y. Ozaki•A. Matsumoto•A. Daicho•C. Ota•Y. Nagasawa
- 2P22** Design of carbazole dye sensitizers for efficient  $H_2$  evolution in Z-scheme type water splitting under visible light (Kyoto Univ. •Tokushima Univ.) ○R. Abe•T. Yokota•M. Higashi•O. Tomita•T. Otsubo•M. Ogasawara
- 2P23** Synthesis and photovoltaic properties of a novel porphyrin sensitizer with a robust hydroxamic acid anchoring group (Kyoto Univ.) ○Y. Kurumisawa•T. Higashino•H. Imahori

- 2P24** Synthesis and Photovoltaic Properties of Novel Push-Pull Porphyrins with a Robust Triethoxysilyl Anchoring Group (Kyoto Univ.) ○S. Nimura • T. Higashino • H. Imahori
- 2P25** Improvement of photocurrent generation in ZnSe-AgInSe<sub>2</sub> solid solution nanoparticle films by the precise control of the stacking structure (Nagoya Univ. • Osaka Univ.) ○T. Kameyama • G. Ukai • S. Kuwabata • T. Torimoto
- 2P26** Effect of Self-Assembled ZnTPyP Nanostructures on Photocatalytic Degradation of Rhodamine B (Yamaguchi Univ.) ○K. Tashiro • S. Yamazaki
- 2P27** Effect of charge density on photochemical behavior of divalent cationic porphyrin/clay nano-sheet complex (Shimane Univ. • Tokyo Metropolitan Univ. • Tokyo Metropolitan Univ.) ○T. Fujimura • T. Shimada • R. Sasai • S. Takagi
- 2P28** Photochromism of 1-thiazolyl or 1-thienyl-2-vinyl-2-phenylthiazole derivatives (NIT, Niihama College • Hyogo Univ. • Nara Inst. Sci. Tech.) ○S. Takami • M. Nishiyama • T. Yamaguchi • Y. Hashimoto • T. Kawai
- 2P29** Organic semiconductor memory with a diarylethene/Cu-composite film based on selective metal-vapor deposition (Osaka Kyoiku Univ.) ○K. Hoshimoto • T. Tsujioka
- 2P30** Isomerization of azobenzene derivative on free surface (Osaka Kyoiku Univ. • Muroran Inst. Tech.) ○T. Ishii • H. Nakano • T. Tsujioka
- 2P31** Adsorption, diffusion, desorption, and nucleation characteristics of Mg-vapor atoms on DAE surface (Osaka Kyoiku Univ.) ○I. Takemoto • M. Okuda • T. Tsujioka
- 2P32** Influence of free surface on crystallization of amorphous diarylethene film (Osaka Kyoiku Univ. • Kwansai Gakuin Univ. • Tokyo Univ. of Pharmacy and Life Science • Ryukoku Univ.) ○Y. Matsuda • K. Tawa • S. Yokojima • K. Uchida • T. Tsujioka
- 2P33** Diarylethene crystals obtained by annealing of amorphous film (Osaka Kyoiku Univ. • Ryukoku Univ.) ○R. Shirakawa • R. Nishimura • K. Uchida • T. Tsujioka
- 2P34** Metal-species dependence of nucleation on steps of colorless diarylethene crystal surfaces (Osaka Kyoiku Univ. • Tokyo Univ. of Pharmacy and Life Sciences • RIKEN • Ryukoku Univ.) ○S. Matsumoto • S. Yokojima • S. Nakamura • K. Uchida • T. Tsujioka
- 2P35** Crystal shape change of diarylethene bearing octyl group by combination of photochemical and thermal effects (Osaka City Univ.) ○K. Kawasaki • D. Kitagawa • S. Kobatake
- 2P36** Dependence of photoinduced bending behavior of diarylethene crystals on

- irradiation power of ultraviolet light (Osaka City Univ.) ○A. Hirano•D. Kitagawa•S. Kobatake
- 2P37** Thermal cycloreversion reaction behavior of diarylethene derivative along with acid addition (Osaka City Univ.) ○M. Sakurai•H. Maemichi•D. Kitagawa•S. Kobatake
- 2P38** Nonlinear light emission switching of photoresponsive diarylethenes coated quantum dots  
(Osaka City Univ.) ○R. Yamada•D. Kitagawa•S. Kobatake
- 2P39** Fluorescence switching of diarylethene derivative with one-colour laser irradiation : mechanism and applications (Osaka Univ. • NICT • Toyama Prefectural Univ. • Rikkyo Univ.) ○H. Fujita•Y. Arai•S. Ito•Y. Yoneda•T. Kaji•S. Takei•M. Morimoto•M. Irie•H. Miyasaka
- 2P40** Aggregation behavior and crystallization of open ring isomer accompanying LCST transition using diarylethene having tri(ethylene glycol) chains terminated by carboxylic acid (Kyoto Univ.) ○S. Sakakibara•K. Higashiguchi•K. Matsuda
- 2P41** Fluorescence photoswitching based on the external stimuli induced orientation in azobenzene polymer liquid crystals (Kumamoto Univ.) ○T. Hashimoto•Y. Matsumoto•S. Kim•T. Ogata•S. Kurihara•T. Fukaminato
- 2P42** Synthesis and photochemical properties of an amphiphilic bridged-azobenzene derivative (Kumamoto Univ.) ○K. Baba•R. Takashima•S. Kim•T. Ogata•S. Kurihara•T. Fukaminato
- 2P43** Synthesis and photoreactivity of a niobate nanoscroll composed of polyfluoroalkyl azobenzene derivative and layered inorganic nanosheet (Univ. Miyazaki•Tokyo Metro. Univ.) ○Y. Nabetani•S. Z. Hassan•K. Matsuda•T. Shiragami•H. Tachibana•H. Inoue
- 2P44** Thermally induced emission enhancement in the organic polymer composite including emissive ionic liquid at lower heat temperature region (Univ. Miyazaki) ○S. Toyota•Y. Nabetani•T. Shiragami
- 2P45** Synthesis and chiroptical properties of  $\pi$ -extended polycyclic aromatic hydrocarbons with chiral structure (Kyoto Univ.) ○T. Hirose•Y. Nakakuki•Y. Uchida•K. Matsuda
- 2P46** Photocontrol of cytotoxicity and antibacterial activity by using photoresponsive surfactants (Kumamoto Univ.) ○R. Takashima•N. Noboru•S. Morimura•T. Nidome•S. Kim•T. Ogata•S. Kurihara•T. Fukaminato
- 2P47** Development of photo-superacid generator by using photochromic terarylene

- framework (Nara Inst. Sci. Tech. • Univ. Toulouse) ○D. Shimizu • T. Nakashima • P. D. Aitor • T. Kawai
- 2P48** Emitting behaviors of monosubstituted pyrenes dispersed in poly(vinyl acetate) film (Muroran Inst. Tech.) ○H. Takahashi • H. Nakano
- 2P49** Photothermal conversion dynamics of quinacridone nanoparticle colloids dispersed in water (Ehime Univ.) ○H. Omoda • Y. Ishibashi • R. Kihara • T. Asahi
- 2P50** Excitation wavelength effect on nanoparticle preparation of Cu phthalocyanine by ns-laser fragmentation in liquid (Ehime Univ.) ○T. Himeda • R. Kihara • T. Asahi
- 2P51** Multiple Exciton Interaction and Hot Electron Relaxation Process of CdSe/CdS Core-Shell Quantum Dots (Kwansei Gakuin Univ.) ○K. Nonaka • T. Okuhata • T. Katayama • L. Wang • N. Tamai
- 2P52** Aggregation process of nanoparticles formed by laser ablation of perylene microcrystals in aqueous solution of Triton X-100 (Univ. of the Ryukyus) S. Oshiro • ○Y. Tamaki
- 2P53** Time-resolved XAFS studies on laser-induced particle formation of palladium ions in aqueous solution (QST • JAEA) ○M. Saeki • D. Matsumura • T. Tsuji • T. Yomogida • T. Taguchi • H. Ohba
- 2P54** Luminescence Switching and Exciton Dynamics of CdTe and CdSe Quantum Dots-Diarylethene Hybrid Systems (Kwansei Gakuin Univ. • Rikkyo Univ.) ○K. Kinoshita • K. Uemoto • Y. Usui • T. Katayama • N. Tamai • M. Morimoto • M. Irie
- 2P55** Synthesis of Semiconductor Nanoplatelets and Luminescence Control by Diarylethene Derivatives (Kwansei Gakuin Univ. • Rikkyo Univ.) ○Y. Usui • K. Kinoshita • K. Uemoto • T. Katayama • M. Morimoto • M. Irie • N. Tamai
- 2P56** Exciton dynamics and the effect of number of adsorbed molecules in CdTe QDs – diarylethene hybrid nanostructures (Kwansei Gakuin Univ. • Rikkyo Univ.) ○K. Uemoto • K. Kinoshita • Y. Usui • T. Katayama • M. Morimoto • M. Irie • N. Tamai
- 2P57** Ultrafast cyclization reaction dynamics of an inverse type diarylethene derivative coupled with coherent molecular vibrations (Osaka Univ. • Osaka City Univ.) ○H. Sotome • D. Kitagawa • T. Nakahama • S. Ito • S. Kobatake • H. Miyasaka
- 2P58** Multiphoton-gated cycloreversion reaction dynamics of a fluorescent diarylethene derivatives as revealed by femtosecond two-color and two-pulse excitation (Osaka Univ. • Rikkyo Univ.) ○T. Nagasaka • H. Sotome • M. Morimoto • M. Irie • H. Miyasaka

- 2P59** Multi-photon absorption characteristics of red fluorescent compounds for visualizing mitochondria (Yamaguchi Univ. • Kochi Univ. • Tokyo Tech.) ○S. Onishi • M. Tominaga • Y. Suzuki • J. Kawamata • Y. Niko • G. Konishi
- 2P60** Electroabsorption spectroscopy of thioflavinT (Muroran Inst. Tech.) ○Y. Kikuchi • T. Iimori
- 2P61** Photoluminescence observation of NaTaO<sub>3</sub> photocatalysts by deep ultraviolet fluorescence microscope (Kobe Univ.) ○S. Mizutani • Y. Kobori • T. Tachikawa
- 2P62** Evaluation of optical functions of titanium dioxide mesocrystals by microspectroscopy (Kobe Univ.) ○Y. Murakami • Y. Kobori • T. Tachikawa
- 2P63** Excitation wavelength dependence on photo-induced charge separation and exciton generation at PSII reaction center (Kobe Univ. • Nagoya Univ.) ○R. Minobe • M. Hasegawa • H. Nagashima • T. Tachikawa • H. Mino • Y. Kobori
- 2P64** Electronic interaction of photocharge separation state generated in cryptochrome from *Xenopus laevis* (Kobe Univ. • Nagoya Inst. Tech. • Toho Univ.) ○M. Hamada • Y. Kobori • T. Tachikawa • H. Nagashima • H. Kandori • T. Iwata
- 2P65** Photoinduced electron transfer processes of excited perylene diimide radical anion as a donor or an acceptor (Osaka Univ.) ○M. Fujitsuka • C. Lu • T. Majima
- 2P66** Ultrafast fluorescence imaging by using pump and dump light pulses as a time gate (Osaka Univ.) ○S. Nakamura • M. Muramatsu • S. Ito • H. Miyasaka
- 2P67** Investigation of the mechanism for the OH radical generation in the plasmonic Au-TiO<sub>2</sub> photocatalyst and the effects of the addition of various ions. (NIT, Nagaoka College) ○T. Hayashi • K. Nakamura • Y. Murakami
- 2P68** Darkfield microscopy-spectroscopy study on the phase separation of poly(vinyl methyl ether) induced by plasmonic heating (Tokushima Univ. • Josai Univ.) ○J. Chikazawa • I. Aibara • T. Uwada • S. Hashimoto
- 2P69** Plasmon-heating-induced nanopore fabrication on glass substrates (Tokushima Univ.) ○Y. Osaka • S. Sugano • S. Hashimoto
- 2P70** Excitation wavelength dependence of Ultrafast dynamics of symmetric TPM dye (Ritsumeikan Univ.) ○A. Daicho • A. Matsumoto • H. Nakagawa • C. Ota • Y. Nagasawa
- 2P71** Intermediate of ultra fast nonradiative deactivation process of *N,N*-dimethylindoaniline (Ritsumeikan Univ.) ○A. Matsumoto • A. Daicho • Y. Nagasawa
- 2P72** Fluorescence of 1,3,5-trimethoxybenzene-tetracyanoethene charge transfer complex (Kyoto Inst. Technol.) ○N. Ichinose • K. Mutashima • M. Hagiri • J. Kinugasa • T. Nakayama • H. Harima

- 2P73** Aggregation-induced fluorescence in fluorinated solvent (Kyoto Inst. Technol.)  
○N. Ichinose•M. Park•Y. Iwasaki
- 2P74** Substituent effects of meso-phenyl groups upon the oxidation of water to hydrogen peroxide using Ge-porphyrin-sensitized photovoltaic cell (Univ. Miyazaki) ○J. Uchida•T. Shiragami
- 2P75** CO<sub>2</sub> reduction using methanol as an electron source by Visible - Near infrared light responsive silicon nanowire photoelectrode (Osaka Pref. Univ.) ○M. Tachibana•K. Miyazaki•Y. Horiuchi•M. Matsuoka
- 2P76** Photo-antibacterial activity of xanthene- and cyanine-dyes by LED-light irradiation (Okayama Univ. Sci.) Y. Tokioka•N. Sakamoto•M. Inoguchi•○J. Odo
- 2P77** Saccharide recognition of Sb-porphyrin complexes containing phenylboronic acid as axial ligand (Univ. of Miyazaki) ○K. Suzuki•J. Matsumoto•M. Yasuda
- 2P78** Photosensitized protein damage by P(V)tetrakis(*p*-methoxyphenyl) porphyrin-cyclodextrin inclusion complexes (Shizuoka Univ. •Hamamatsu Univ. Sci. Med.)  
○R. Nomura•D. Ouyang•S. Okazaki•K. Hirkawa
- 2P79** Structure transition and fluorescence property of pyrene-aggregates on DNA (Univ. of Hyogo) ○M. Nakamura•T. Takada•K. Yamana
- 2P80** Functionalization of acyclic artificial nucleic acids by conjugation with dye (Nagoya Univ.) ○K. Murayama•H. Kashida•H. Asanuma
- 2P81** Photo-regulation of artificial nucleic acid SNA using modified nucleobases (Nagoya Univ.) ○Y. Yamano•K. Murayama•H. Asanuma
- 2P82** Evaluation of the microenvironment in trehalose glass by two-dimensional fluorescence excitation spectroscopy (Ritsumeikan Univ.) ○C. Ota•A. Toyo•A. Matsumoto•Y. Hirata•Y. Nagasawa
- 2P83** Structural Color of Myxomycetes (Ritsumeikan Univ. •Tokyo Univ. Science •Morioka Chuo High School) ○A. Hayashi•M. Kurashiki•C. Ota•Y. Nagasawa•R. Ebihara•S. Yoshioka•M. Tamayama
- 2P84** Optical properties of 17-functionalized chlorophyll derivatives introduced into a lipid bilayer (Ryukoku Univ.) T. Miyatake•○N. Nishimura
- 2P85** Optical property and structure of semiconductor nanocrystal-ionic liquid composite materials (Nara Inst. Sci. Tech.) ○K. Shigekawa•T. Nakashima•T. Kawai
- 2P86** Preparation of fluorescent carbon nanomaterial from starch (Muroran Inst. Tech.) ○H. Shibata•T. Iimori
- 2P87** Photophysical properties of carbostyryl derivatives as coumarin analogs

- (Osaka-Kyoiku Univ.·Nippon Pharmaceutical Chemicals Co., Ltd.) ○K. Hori·K. Tani·A. Hatanaka·H. Kodama
- 2P88** Titanium oxide photocatalytic activity using microreactor (NIT, Nagaoka College) ○M. Nakamura·Y. Murakami
- 2P89** Color change in titanium dioxide due to deposition of metal nanoparticles and their photocatalytic properties (Hyogo Univ. Health Sci.) ○A. Kawashima·S. Ikeuti·C. Yanagawa·M. Ishizaki·H. Miyabe·H. Maeda·S. Kohtani
- 2P90** Formation of Quinone Imine Derivatives via Photocycloaddition between Isocyanates and Quinones (Okayama Univ. Sci.) ○K. Wakamatsu·K. Araoka·R. Ohyama·Y. Sugihara·H. Yamada
- 2P91** Study of Rare Metal-Free Radical Cyclization under Photoirradiation (Gifu Pharm. Univ.) S. Maejima·Y. Sudo·E. Yamaguchi·N. Tada·○A. Itoh
- 2P92** Aggregation-induced emission and mechanochromic luminescence properties of donor-acceptor type NIR fluorescent dyes (NIT, Kurume College) ○T. Ishi-i·H. Tanaka·T. Matsumoto
- 2P93** Photostabilization of phlorin metal complex with long-wavelength absorption bands and photooxidation activity (Univ. of Miyazaki) ○M. Shigehara·J. Matsumoto·M. Yasuda
- 2P94** Switching of  $\pi$ -circuit and Change of Optical Property by Oxidation of Thiophene-Fused Dithiaoctaphyrin (Kyoto Univ.) ○A. Kumagai·T. Higashino·H. Imahori
- 2P95** Attempt of enantioselective intramolecular [2+2] photocycloaddition reactions mediated by chiral phosphoric acid (Hiroshima Univ.) ○C. Tabuchi·R. Takagi·M. Abe
- 2P96** Generation of radical probe using a two-photon responsive photolabile protecting group (Hiroshima Univ.·Niigata Univ.) ○A. Yamada·M. Abe·K. Furukawa
- 2P97** Design and synthesis of two-photon responsive photolabile protecting group with a terphenyl unit: Application to caged compound (Hiroshima Univ.·Niigata Univ.·CNRS-Rennes) ○T. Pham·S. Jakkampudi·M. Abe·K. Furukawa·C. Katan
- 2P98** Elucidation of the highly enantiodifferentiating site of human serum albumin for mediating photocyclodimerization of 2-anthracenecarboxylate with xenon as a site-specific inhibitor/quencher (Osaka Univ.·Univ. of Victoria·Tohoku Univ.) ○M. Nishijima·T. Pace·T. Mori·T. Wada·C. Bohne·Y. Inoue
- 2P99** Diastereodifferentiating intramolecular [2+2] photocycloaddition reaction of

- 1,4-naphthoquinon derivatives upon local and charge-transfer band excitations (Osaka Univ.) ○H. Ishikawa•T. Kida•T. Mori
- 2P100** Optical Properties of Angularly-shaped Thienobisbenzothiophene Controlled by Using Sulfonylation (Osaka Pref. Univ.) ○K. Mishima•T. Ogaki•E. Ohta•Y. Matsui•H. Ikeda
- 2P101** [3+2] Meta-photocycloadditions of 2-naphthamide derivatives with styrene (Shimane Univ.) ○H. Watabe•H. Shiratori•Y. Kubo•Y. Nishigaichi
- 2P102** Luminescence Properties of Dimeric Imidazo[1,5-*a*]pyridinium Salts in solution and the Solid-state (Tokushima Univ.) F. Yagishita•○C. Nii•Y. Tezuka•Y. Kawamura
- 2P103** Enantioselective photohydrogenation of aromatic ketones on TiO<sub>2</sub> in the presence of chiral carboxylic acids (Hyogo Univ. Health Sci.) ○S. Kohtani•F. Masuda•M. Horie•A. Kawashima•E. Yoshioka•H. Miyabe
- 2P104** Development of Ru complex-supported nano C<sub>3</sub>N<sub>4</sub> including alkali cations and enhanced photocatalytic activity (Osaka Univ. •JST•PRESTO•Univ. Tokyo) ○D. Tatsumi•K. Mori•T. Iwamoto•Y. Masui•M. Onaka•H. Yamashita

## Poster Presentation: September 6 (Wed.) 14:20 – 16:00

Odd number (14:20 - 15:10) Even number (15:10 – 16:00)

- 3P01** Visible-light induced decomposition of monoethanolamine in water with graphitic carbon nitride (Kanagawa Univ. • AIST) ○H. Hori • S. Wachi • T. Sano
- 3P02** Interfacial charge-transfer transitions between SrTiO<sub>3</sub> and catechol derivatives and photocatalytic function (Gunma Univ.) ○T. Eda • J. Fujisawa • M. Hanaya
- 3P03** CO release from a Mn(I) carbonyl complex derived from polypyridyl ligands upon exposure to visible light (Fukushima Univ.) ○T. Takase • R. Abe • D. Oyama
- 3P04** Zinc porphyrin/rhenium complex hybrid system for visible light induced CO<sub>2</sub> photo-reduction on p-type semiconductor (Tokyo Metropolitan Univ.) ○D. Yamamoto • Y. Kou • Y. Nabetani • H. Tachibana • H. Inoue
- 3P05** Water oxidation under visible light using cobalt oxide modified strontium titanate as a photocatalyst (Tokyo Tech. • Tohoku Univ.) ○M. Okazaki • H. Kato • M. Kakihana • K. Maeda
- 3P06** NA
- 3P07** Photocatalytic CO<sub>2</sub> reduction using Cu-complexes photosensitizer and Mn-complexes catalyst (Tokyo Tech. • AIST) ○H. Takeda • H. Kamiyama • M. Irimajiri • K. Koike • O. Ishitani
- 3P08** Photocatalytic CO<sub>2</sub> reduction using improved Cu(I) complexes as photosensitizers (Tokyo Tech.) ○Y. Momma • H. Takeda • O. Ishitani
- 3P09** Photocatalytic CO<sub>2</sub> reduction using a new supramolecular photocatalyst of Ir(III)-Ru(II) (Tokyo Tech.) ○S. Nakamura • Y. Yamazaki • O. Ishitani
- 3P10** Fabrication of dye sensitized solar cell using ZnTiO<sub>3</sub> electrode modified with natural plant pigment (Tokai Univ.) ○S. Shinkuma • Y. Okaniwa • M. Komatsu
- 3P11** Cancelled
- 3P12** Laser scanning photocurrent and photoluminescence microscopy for MK-2 dye sensitized solar cells (Rikkyo Univ.) ○R. Takahashi • R. Kobayashi • K. Mori • M. Mitsui
- 3P13** Photochromism of Group 14 Element Atom-Bridged Imidazole Dimers (Aoyama Gakuin Univ.) ○S. Tanaka • K. Mutoh • J. Abe
- 3P14** Stepwise Two-Photon-Gated Photochromic Reaction with Different Fast Photochromic Units (Aoyama Gakuin Univ.) ○K. Yamamoto • K. Mutoh • J. Abe
- 3P15** Substituent effect on photoreaction quantum yields of fluorescent diarylethene

- derivatives (Rikkyo Univ.) ○S. Takusu · T. Sumi · M. Morimoto · M. Irie
- 3P16** Chiral photochromism of 6π conjugated system which has a binaphthyl group (Yokohama National Univ.) ○Y. Iiyoshi · R. Kato · T. Ubukata
- 3P17** Photochromism of a spirodiarylethene derivative (Yokohama National Univ.) ○Y. Miyasaka · Y. Yokoyama · T. Nakagawa
- 3P18** Absorption and luminescence properties of multi-stimuli responsive D - π - A dyes (Josai Univ) S. Osawa · D. Izutsu · ○M. Hashimoto
- 3P19** Transient emission spectroscopy of D-π-A type dye molecules adsorbed on metal oxide semiconductor (Josai Univ.) ○K. Watanabe · K. Takayanagi · A. Yoshida · K. Mitsuke · K. Takahashi · M. Hashimoto
- 3P20** Dye-sensitized solar cells using starburst dyes having D-π-A structure (Rikkyo Univ. · Shizuoka Univ.) ○Y. Nakagome · S. Inoue · K. Kobayashi · M. Mitsui
- 3P21** Effects of solvent polarity on the photoproperties of DπD molecules  $\alpha, \omega$ -di(4-pyridyl)polyenes with 1-5 double bonds (AIST) ○Y. Sonoda
- 3P22** Intramolecular triplet-triplet annihilation upconversion in 4,5-diarylxanthe (Josai Univ. · AIST) ○K. Takayama · M. Hashimoto · H. Konno · K. Koike
- 3P23** High magnetic field effects on singlet fission in rubrene (Saitama Univ.) ○M. Wakasa · T. Yoshida · T. Yago
- 3P24** Structural analysis of the correlated triplet pairs generated by singlet fission (Saitama Univ.) ○K. Ishikawa · T. Yago · M. Wakasa
- 3P25** Temperature dependence of singlet fission rate constant in fluorinated derivatives of diphenylhexatriene (Nihon Univ. · AIST) ○M. Hashimoto · Y. Sonoda · R. Katoh
- 3P26** Examination on Correlation of Triplet Pairs toward the Orientation of Tetracene Dimers (Keio Univ. · Tampere Univ. Tech.) ○S. Nakamura · H. Sakai · N. Tkachenko · T. Hasobe
- 3P27** Synthesis and photochromism of diarylethene with aza-crown ether moiety on the side chain (Yokohama National Univ.) ○A. Takeguchi · T. Nakagawa · Y. Yokoyama
- 3P28** 2-Hydroxytriptanthrin derivatives as fluorescent chemosensors for metal ions (Hirosaki Univ.) ○J. Kawakami · K. Yanase · M. Sasagawa · S. Ito
- 3P29** Translational motion of azobenzene crystals by light irradiation (AIST) ○Y. Norikane
- 3P30** Spectral changes of porphyrin complex on redox reactions (Univ. Yamanashi) ○K. Ogawa · Y. Umetsu · M. Kawakami
- 3P31** Synthesis of carbazole oligomers and effect of ring formation on optical

- properties (Univ. Yamanashi) ○S. Tanaka · K. Simura · K. Ogawa
- 3P32** Two-photon absorption properties of dypyrrolo-naphthyridinedions derivatives symmetrically substituted with electron-donating/accepting groups (AIST · Kwansai Gakuin Univ. · Polish Academy Sci.) ○H. Kita · K. Kamada · B. Sadowski · M. Grzybowski · D. T. Gryko
- 3P33** Syntheses and properties of novel crown ether containing azulenes (Josai Univ.) ○H. Goto · H. Wakabayashi
- 3P34** Electrochemical modulation of luminescent color based on control of excited energy transfer induced by redox reaction (Chiba Univ.) ○N. Yanagawa · K. Nakamura · N. Kobayashi
- 3P35** Development of a photoreactive cross-linker: selective fluorescence quenching and photodegradation in the presence of chloroform (Tokyo Tech. · Osaka Univ.) ○R. Nishiwaki · S. Sasaki · T. Suenobu · O. Ishitani · G. Konishi
- 3P36** Fluorescence properties of pyrene containing amphiphilic fluorinated polymer nanoparticle film (Tohoku Univ. · Yamagata Univ.) ○Y. Im · H. Zhu · S. Yamamoto · J. Matsui · T. Miyashita · M. Mitsuishi
- 3P37** Development of multi-wavelength measurement system for RIPT transient absorption spectroscopy (UNISOKU · Nihon Univ.) ○H. Hanada · K. Okamoto · R. Katoh · T. Nakagawa
- 3P38** Observation of Long Lived Triplet Excited States of Tetracene Units by Control of Intermolecular Orientation Utilizing Monolayer Protected Nanoclusters (Keio Univ. · Tampere Univ. Tech.) ○T. Saegusa · H. Sakai · N. Tkachenko · T. Hasobe
- 3P39** Synthesis and Photophysical Properties of Helical Boron-Dipyrromethene Derivatives (Keio Univ.) ○H. Ito · H. Sakai · T. Hasobe
- 3P40** Cancelled
- 3P41** Immobilization of fluorescent single molecules on transparent substrates by covalent bonding; evaluation of the method (Josai Univ.) ○T. Takahashi · Y. Hayashi · T. Uwada · M. Ishikawa
- 3P42** Reaction mechanism of crystal growth of titania using its photocatalytic activity (Shinshu Univ.) ○S. Miyagawa · H. Nishikiori
- 3P43** Determination of intersystem crossing quantum yield of thioguanosine derivatives (Aoyama Gakuin Univ.) ○S. Tanabe · S. Miyata · T. Isozaki · T. Suzuki
- 3P44** Photoinduced dissociation mechanism studied by imaging method from mass-selected gas-phase complex ions (Tohoku Univ.) K. Okutsu · Y.

- Nakashima · Y. Ito · M. Nakano · K. Ohshimo · ○F. Misaizu
- 3P45** AuNP size effects on pressure-dependent emission from colloidal gold nanoparticles (Tohoku Univ. · NIT, Sendai College · Tokushima Univ.) ○T. Matsumoto · S. Kajimoto · H. Fukumura · S. Hashimoto
- 3P46** Charge carrier dynamics of commercially available TiO<sub>2</sub> photocatalysts studied by highly sensitive transient diffuse reflectance spectroscopy (Nihon Univ.) ○Y. Cho · R. Katoh
- 3P47** Fluorescence properties of perylene polymorphic form prepared by train-sublimation method (Nihon Univ.) ○K. Sato · M. Undo · R. Katoh
- 3P48** Sub-nanosecond relaxation dynamics of tetracyanobenzene-toluene exciplex studied by transient absorption based on RIPT method (Nihon Univ. · Osaka Univ. · UNISOKU) ○S. Nikaido · T. Suenobu · T. Nakagawa · R. Katoh
- 3P49** Sub-nanosecond dynamics of excimer of anthracene derivatives observed by transient absorption based on RIPT method (Nihon Univ. · Osaka Univ. · UNISOKU) ○Y. Shibasaki · T. Suenobu · T. Nakagawa · R. Katoh
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