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## Poster Session 2

**Wed. Sep 15, 2021 12:40 PM - 2:20 PM**

[2P01] Photophysical and Photovoltaic Properties of Regioselectively Brominated ITIC

\*Tatsuho WADA<sup>1</sup>, Yui FUJIMARU<sup>1</sup>, Tomokazu UMEYAMA<sup>3</sup>, Hiroshi IMAHORI<sup>1,2</sup> (1. Grad. Sch. of Eng., Kyoto Univ., 2. WPI-iCeMS, Kyoto Univ., 3. Grad. Sch. of Eng., Univ. of Hyogo)

[2P02] Photovoltaic properties of p-type dye-sensitized solar cell with push-pull type porphyrin-fullerene dyad

\*Qi GUO<sup>1</sup>, Tomohiro HIGASHINO<sup>1</sup>, Hiroshi IMAHORI<sup>1,2</sup> (1. Grad. Sch. of Eng., Kyoto Univ., 2. WPI-iCeMS, Kyoto Univ.)

[2P03] Development of bio-solar cells with redox polymer

\*Naoya OBATA<sup>1</sup> (1. Tokyo Univ. of Sci.)

[2P04] Highly Soluble and Fluorescent New Diphenylhexatrienes with Trifluoromethyl Substituents

\*Yoriko SONODA<sup>1</sup> (1. AIST)

[2P05] Modulation of circularly polarized luminescence properties of cyclodextrin derivatives by guest inclusion.

\*Shintaro YAMADA<sup>1</sup>, Hajime SHIGEMITSU<sup>1</sup>, Kosei KAWAKAMI<sup>1</sup>, Tadashi MORI<sup>1</sup>, Toshiyuki KIDA<sup>1</sup> (1. Osaka Univ.)

[2P06] Synthesis and room-temperature phosphorescence properties of fluorinated diphenylacetylene

\*Masato MORITA<sup>1</sup>, Shigeyuki YAMADA<sup>1</sup>, Tsutomu KONNO<sup>1</sup> (1. Kyoto Inst. of Tech.)

[2P07] Supramolecular Polymers Exhibiting Distinct Higher-Order Structures and Fluorescence Properties Depending on Packing Structures

\*Yuta SATO<sup>1</sup>, Hayato OUCHI<sup>2</sup>, Shiki YAGAI<sup>3</sup> (1. Grad. Sch. of Eng. and Sci., Chiba Univ., 2. OIST, 3. IGPR, Chiba Univ.)

[2P08] Synthesis and Photophysical Properties of Anthra[2,3-*b*]phosphole Derivatives

\*Yuta KUDOH<sup>1</sup>, Yoshihiro MATANO<sup>1</sup> (1. Fac. of Sci., Niigata Univ.)

[2P09] Synthesis and optical properties of thiophene- and pyrrole-fused porphyrins

\*Rikiya IIZUMI<sup>1</sup>, Tomihoro HIGASHINO<sup>1</sup>, Hiroshi IMAHORI<sup>1</sup> (1. Grad. Sch. Eng., Kyoto Univ.)

[2P10] Inclusion of anthracene derivatives with cyclodextrins and their optical properties in solid state

\*Yuna KAKIMOTO<sup>1</sup>, Yoshitane IMAI<sup>2</sup>, Eiji NAKATA<sup>3</sup>, Hiroshi TAKASHIMA<sup>1</sup> (1. Nara Women's Univ., 2. Kindai Univ., 3. Kyoto Univ.)

[2P11] ESIPT fluorescence properties of phthalimides incorporating sulfonamide as the proton donor

\*Aoi TATSUKI<sup>1</sup>, Kazumasa ITANI<sup>1</sup>, Minoru YAMAJI<sup>2</sup>, Hideki OKAMOTO<sup>1</sup> (1. Okayama Univ., 2. Gunma Univ.)

[2P12] Unusual visible light fluorescence of aminoalkoxydioxaborolanes with phenyl moieties

\*Akira TAKAHASHI<sup>1</sup>, Kim Jin WONG<sup>1</sup>, Sena HASHIMOTO<sup>1,2</sup>, Izumi IWAKURA<sup>1</sup>, Atsushi KAMEYAMA<sup>1</sup> (1. Fac. of Eng., Kanagawa Univ., 2. Fac. of Eng., Yokohama Natl.Univ.)

[2P13] Synthesis and photoluminescence property evaluation of fluorinated hexaarylbenzene derivatives

\*Yizhou WANG<sup>1</sup>, Masato MORITA<sup>1</sup>, Shigeyuki YAMADA<sup>1</sup>, Tsutomu KONNO<sup>1</sup> (1. Kyoto Inst. of Tech.)

[2P14] Novel synthesis and photoluminescence evaluation of fluorinated diphenylacetylene derivatives with an amine-based electron-donor moiety

\*Kazuki KOBAYASHI<sup>1</sup>, Shigeyuki YAMADA<sup>1</sup>, Tsutomu KONNO<sup>1</sup> (1. Kyoto Inst. of Tech.)

[2P15] Photoluminescence evaluation of novel tricyclic compounds having a tetrafluorocyclohexa-1,3-diene backbone

\*Haruka OHSATO<sup>1</sup>, Shigeyuki YAMADA<sup>1</sup>, Tsutomu KONNO<sup>1</sup> (1. Kyoto Inst. of Tech.)

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[2P16] Chiroptical Properties of Pyrene Derivatives Symmetrically Substituted with Hexahydromethanobenzocyclobutane Units

\*Kosuke SAITO<sup>1</sup>, Tadashi MORI<sup>1</sup> (1. Chem. of Eng., Osaka Univ.)

[2P17] Synthesis and circularly polarized luminescence(CPL) study of chiral pyrene dimer

\*Sadikshya PANDEY<sup>1</sup>, Tomonori KAKIZAKI<sup>1</sup>, Masaki NISHIJIMA<sup>1</sup>, Yasuyuki ARAKI<sup>1</sup>, Reiko ODA<sup>2</sup>, Takehiko WADA<sup>1</sup> (1. IMRAM, Tohoku Univ., 2. IECB, Univ. of Bordeaux)

[2P18] Visible-light-induced decarboxylative radical reactions of benzoic acids

\*Yasuhiro NACHI<sup>1</sup>, Yasuharu YOSHIMI<sup>1</sup> (1. Grad. Sch. of Eng., Univ. of Fukui)

[2P19] Photochemical reaction of a quinuclidine derivative having an  $\alpha$ -ketoamide group

\*Riho MIYAMOTO<sup>1</sup>, Shinji YAMADA<sup>1</sup> (1. Ochanomizu university)

[2P20] Photochemical Synthesis and Application of Quinone Imine Derivative from Carbonyl Azide and Quinone

\*Kan WAKAMATSU<sup>1</sup>, Sho TANABE<sup>1</sup>, Haruo YAMADA<sup>1</sup> (1. Fac. of Sci., Okayama Univ. of Sci.)

[2P21] Visible light promoted reductive transformation of organic molecules by using polycyclic aryl-substituted benzimidazolines and benzimidazoliums

\*Ryo MIYAJIMA<sup>1</sup>, Eietsu HASEGAWA<sup>2</sup> (1. Grad. School of Sci, Niigata Univ., 2. Fac. of Sci., Niigata Univ.)

[2P22] Selective [2+2] photocycloaddition of  $\alpha,\beta$ -unsaturated iminium salts controlled by cation- $\pi$  interaction.

\*Yuka HONDA<sup>1</sup>, Shinji YAMADA<sup>1</sup> (1. Ochanomizu Univ.)

[2P23] Photoinduced Cyclization of 2-Methylbiphenyls with Iron Catalyst

\*Yuki ITABASHI<sup>1</sup>, Kei OHKUBO<sup>1,2</sup> (1. OTRI, Osaka Univ., 2. IACS, Osaka Univ.)

[2P24] The trapping of carbon radicals generated by cooperative photocatalytic systems containing benzimidazolium aryloxide photocatalysts

\*Takehiro KIUCHI<sup>1</sup>, Tsukasa TANAKA<sup>1</sup>, Eietsu HASEGAWA<sup>2</sup> (1. Grad. School of Sci. and Tech., Niigata Univ., 2. Fac. of Sci., Niigata Univ.)

[2P25] Design and Synthesis of New Two-Photon Responsive Caged Calcium Compound Using Octupolar System

\*Linh Tran Bao NGUYEN<sup>1</sup>, Manabu ABE<sup>1</sup> (1. Grad. Sch. of Adv. Sci. and Eng., Hiroshima Univ.)

[2P26] Organophotoredox catalyzed [4+2] cycloaddition reactions of o-quinone methides via one electron oxidation

\*Kenta TANAKA<sup>1</sup>, Naoya YAMAGUCHI<sup>1</sup>, Suguru IWAI<sup>1</sup>, Yujiro HOSHINO<sup>1</sup> (1. Grad. Env. Info. Sci., Yokohama Natl. Univ.)

[2P27] Singlet Oxygen Caging, Releasing, and Optical Sensing by Photo-Excited State Engineering in an Aminomethyl anthracene-Coumarin Linked molecule

\*Yuta TAKANO<sup>1,2</sup>, Devika SASIKUMAR<sup>1,2</sup>, Hanjun ZHAO<sup>2</sup>, Reiko KOHARA<sup>2</sup>, Morihiko HAMADA<sup>3,4</sup>, Yasuhiro KOBORI<sup>3</sup>, Vasudevanpillai BIJU<sup>1,2</sup> (1. RIES, Hokkaido Univ., 2. Env.Sci, Hokkaido Univ., 3. MPRC, Kobe Univ., 4. Kobe Colledge Tech.)

[2P28] Dual emission of Si<sup>IV</sup> corrole  $\mu$ -oxo-bridged dimers

\*Kyo YAMAGATA<sup>1</sup>, Akihito NAKAI<sup>1</sup>, Kento UETA, Atsuhiko OSUKA, Takayuki TANAKA<sup>1</sup> (1. Fac. of Sci., Kyoto Univ.)

[2P29] Synthesis and Intramolecular Singlet Fission of Ferrocene-Bridged Pentacene Dimers

\*Ryo HAYASAKA<sup>1</sup>, Hayato SAKAI<sup>1</sup>, Taku HASOBE<sup>1</sup> (1. Keio Univ.)

[2P30] Long-Range Intramolecular Singlet Fission in Pentacene Dimers Bridged by Polyynes

\*Hayato SAKAI<sup>1</sup>, Masaaki FUKI<sup>2</sup>, Nikolai TKACHENKO<sup>3</sup>, Yasuhiro KOBORI<sup>2</sup>, Taku HASOBE<sup>1</sup> (1. Fac. Sci. Tech., Keio Univ., 2. Molecular Photoscience Research Center, Kobe Univ., 3. Tampere Univ.)

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[2P31] Ammonia treatment in water with a combination of Titanium dioxide supported zeolite composite photocatalyst and nitrifying bacteria

\*Sakuya MATSUMOTO<sup>1</sup> (1. Tokyo Univ. of Sci. )

[2P32] Photooxidation of water to hydrogen peroxide catalyzed by germanium-N-confused porphyrin/TiO<sub>2</sub> electrode

\*Jyoshua SENOKUCHI<sup>1</sup>, Yu NABETANI<sup>1</sup>, Tsutomu SHIRAGAMI<sup>1</sup> (1. Univ. of Miyazaki)

[2P33] Construction of surface reaction fields through titanium oxide modification for enhanced photoelectrochemical performances of the particulate photoanodes for oxygen evolution

\*Fumiaki TAKAGI<sup>1</sup>, Suzuna TAGUCHI<sup>1</sup>, Yosuke KAGESHIMA<sup>1,2</sup>, Katsuya TESHIMA<sup>1,2</sup>, Kazunari DOMEN<sup>2</sup>, Hiromasa NISHIKIORI<sup>1,2</sup> (1. Grad. Sch. of Eng., Shinshu Univ., 2. Research Initiative for Supra-Materials (RISM), Shinshu Univ.)

[2P34] Visible-light absorption of emissive heteroleptic Cu(I)-phenanthroline-complex photosensitizer bearing thiazole derivatives

\*Hiroyuki TAKEDA<sup>1,2</sup>, Makoto SHIMO<sup>1</sup>, Gai YASUHARA<sup>1</sup>, Ken KOBORI<sup>1</sup>, Motoko S. ASANO<sup>1</sup>, Yutaka AMAO<sup>2</sup> (1. Fac. of Sci. and Tech., Gunma Univ., 2. Recap, Osaka City Univ.)

[2P35] Improvement of photovoltaic performances of the photoelectrochemical cell through surface modification of Zn<sub>x</sub>Cd<sub>1-x</sub>Se nanowire photoanodes

\*Mika NISHIZAWA<sup>1</sup>, Yosuke KAGESHIMA<sup>1</sup>, Katsuya TESHIMA<sup>1</sup>, Kazunari DOMEN<sup>1</sup>, Hiromasa NISHIKIORI<sup>1</sup> (1. Fac. of Engi., Shinshu Univ.)

[2P36] Fabrication of solid-state Dye-Sensitized Solar Cells and investigation of dyes used

\*Shuji KAYANUMA<sup>1</sup> (1. Tokyo Univ. of Sci.)

[2P37] Improving the Thermal Stability of Perovskite Solar Cells for Space Applications

\*Naoki KIYOTA<sup>1</sup> (1. Tokyo Univ. of Sci.)

[2P38] Near-IR emission and time-resolved EPR in Pt(II)-bodipy diads

Ken KOBORI<sup>1</sup>, \*Motoko S. ASANO<sup>1</sup>, Yuqi HOU<sup>2</sup>, Jianzhang ZHAO<sup>2</sup> (1. Gunma Univ., 2. Dalian Univ. of Tech.)

[2P39] Diffusion length of triplet excitons in triplet-triplet annihilation photon upconversion in the presence of silver nanostructures

\*Soichiro SHIMA<sup>1</sup>, Shun OMAGARI<sup>1</sup>, Martin VACHA<sup>1</sup> (1. Sch. of Mat. and Chem. Tech., Tokyo Tech)

[2P40] Prompt and delayed fluorescence imaging analysis of photon upconversion in organic composite microcrystals

\*Taishi SHIBUYA<sup>1</sup>, Masaaki MITSUI<sup>1</sup>, Yoshiki NIIHORI<sup>1</sup> (1. Rikkyo Univ.)

[2P41] Heteroatom doping effects on the photon up-conversion properties of thiolate-protected Ag<sub>25</sub> clusters

\*Yamato ARAI<sup>1</sup>, Yoshiki NIIHORI<sup>1</sup>, Masaaki MITSUI<sup>1</sup> (1. Grad. Sch. of Sci., Rikkyo Univ.)

[2P42] Temperature Dependence of Triplet Fusion of Anthracene in Solution

\*Shuta TSUCHIYA<sup>1</sup>, Tadaaki IKOMA<sup>1</sup>, Tomoaki MIURA<sup>2</sup> (1. Grad. Sch. of Sci. & Tech., Niigata Univ., 2. Fac. of Sci., Niigata Univ.)

[2P43] Triplet sensitization and photon upconversion using thiolate-protected Ag<sub>29</sub> clusters

\*Naoya TAKAHASHI<sup>1</sup>, Yoshiki NIIHORI<sup>1</sup>, Masaaki MITSUI<sup>1</sup> (1. Fac. of Sci., Rikkyo Univ.)

[2P44] Magnetic field effects about singlet fission in rubrene nano particle

\*Takuya NAKAMURA<sup>1</sup>, Tomoaki YAGO<sup>1</sup>, Masanobu WAKASA<sup>1</sup>, Masanori UJI<sup>2</sup>, Yoichi SASAKI<sup>2</sup>, Nobuhiro YANAI<sup>2,3</sup> (1. Grad. Sch. of Sci. & Eng., Saitama Univ., 2. Grad. Sch. of Eng., Kyushu Univ., 3. PRESTO, JST)

[2P45] Magnetic field effects of Triplet fusion in 9,10-diphenylanthracene single crystal

\*Manami TASHIRO<sup>1</sup>, Kiichi HASEGAWA, Tomoaki YAGO<sup>1</sup>, Masanobu WAKASA<sup>1</sup> (1. Grad. Sch. of Sci. and Eng., Saitama Univ.)

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[2P46] Spin Dynamics of Multiexcitons Generated by Singlet Fission in Tetracene Molecular Wires  
\*Masaaki FUKI<sup>1</sup>, Shunta NAKAMURA<sup>2</sup>, Hayato SAKAI<sup>2</sup>, Taku HASOBE<sup>2</sup>, Yasuhiro KOBORI<sup>1</sup> (1. MPRC, Kobe Univ., 2. Fac. Sci. Tech, Keio Univ.)

[2P47] Elementary Exciton Dynamics of Cadmium-Free Blue-Emitting InGaP Quantum Dots  
\*Hiroki KITAJIMA<sup>1</sup>, Daichi EGUCHI<sup>1</sup>, Naoto TAMAI<sup>1</sup> (1. Kwanseigakuin Univ. Grad. Sch.)

[2P48] Generation of Singlet Oxygen using Gold or Silver Clusters  
\*Hiroaki YONEMURA<sup>1</sup>, Ryosuke YOSHII<sup>1</sup>, Daigo MURAKAMI<sup>1</sup> (1. Sojo Univ.)

[2P49] Synthesis and Optical Properties of Multiple Lanthanide Fluoride Nanoparticles  
\*Akira KAWASHIMA<sup>1</sup>, Sae TANINO<sup>1</sup>, Yoshiki WADA<sup>1</sup>, Hideto MIYABE<sup>1</sup>, Shigeru KOHTANI<sup>1</sup> (1. Hyogo Univ. Health Sci.)

[2P50] Non-fluorescent Dimer Formation of Fluorene Solubilized with Cyclodextrins in Water  
\*Keigo YAMAMOTO<sup>1</sup>, Nobuyuki ICHINOSE<sup>1</sup>, Akira HIRASE<sup>1</sup>, Akihito NISII<sup>1</sup> (1. Kyoto Inst. of Tech.)

[2P51] Elucidation of the Mechanism in Halide-Exchange Reaction of a CsPbBr<sub>3</sub> Perovskite Nanocrystal  
\*Yuki TAJIKA<sup>1</sup>, Mitsuaki YAMAUCHI<sup>1</sup>, Sadahiro MASUO<sup>1</sup> (1. Grad. Sch. of Sci. and Technol., Kwansei Gakuin Univ.)

[2P52] Elucidation of Energy Transfer Between a Single Perovskite Nanocrystal-Dye Molecules Systems  
\*Kaho MATSUNAGA<sup>1</sup>, Mitsuaki YAMAUCHI<sup>1</sup>, Sadahiro MASUO<sup>1</sup> (1. Grad. Sch. of Sci. and Technol., Kwansei Gakuin Univ.)

[2P53] Emission Switching of Fluorescent Diarylethene Nanoparticles with Single-Wavelength CW Laser.  
\*Yumi TAKEI<sup>1</sup>, Syoji ITO<sup>1</sup>, Hikaru SOTOME<sup>1</sup>, Masakazu MORIMOTO<sup>2</sup>, Masahiro IRIE<sup>2</sup>, Hiroshi MIYASAKA<sup>1</sup> (1. Osaka Univ., 2. Rikkyo Univ.)

[2P54] Presentation Cancelled

[2P55] Exciton Dynamics of Semiconductor Quantum Dots-Porphyrin Derivatives Hybrid Systems  
\*Naoki NAKAYABU<sup>1</sup>, Daichi EGUCHI<sup>1</sup>, Naoto TAMAI<sup>1</sup>  
<sup>1</sup> (1. Kwansei Gakuin Univ.)

[2P56] Emission Enhancement of a Single CdSe/ZnS Quantum Dot Using a One-Dimensional Metal Periodic Structure  
\*Hiroto TAKASE<sup>1</sup>, Hinako CHIDA, Mitsuaki YAMAUCHI<sup>1</sup>, Keiko TAWA<sup>1</sup>, Sadahiro MASUO<sup>1</sup> (1. Grad. Sch. of Sci. and Techn., Kwansei Gakuin Univ.)

[2P57] Near-field enhancement effects induced by plasmon-optical mode interactions  
\*Rin MIYAZAKI<sup>1</sup>, Keisuke IMAEDA<sup>2</sup>, Kosei UENO<sup>2</sup> (1. Grad. School Chem. Sci. and Eng., Hokkaido Univ., 2. Fac. Sci., Hokkaido Univ.)

[2P58] Photoelectrochemical properties on anode with multilayered gold nanoparticles under strong coupling condition between plasmon and Fabry-Pérot nanocavity  
\*Minoru ISHIHARA<sup>1</sup>, Tomoya OSHIKIRI<sup>1</sup>, Yocef HATTORI<sup>1</sup>, Xu SHI<sup>2</sup>, Hiroaki MISAWA<sup>1,3</sup> (1. RIES, Hokkaido Univ., 2. CRI, Hokkaido Univ., 3. National Yang Ming Chiao Tung Univ)

[2P59] Plasmon-enhanced near-fields controlled by the far-field coupling  
\*Junfeng YUE<sup>1</sup>, Keisuke IMAEDA<sup>2</sup>, Kosei UENO<sup>2</sup> (1. Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ., 2. Fac. of Sci., Hokkaido Univ.)

[2P60] Spatial-coherence-enhanced hot-electron generation under modal strong coupling conditions  
\*Yen-En LIU<sup>1</sup>, Xu SHI<sup>2</sup>, Yocef HATTORI<sup>1</sup>, Tomoya OSHIKIRI<sup>1</sup>, Keiji SASAKI<sup>1</sup>, Hiroaki MISAWA<sup>1,3</sup> (1. RIES, Hokkaido Univ., 2. CRI, Hokkaido Univ., 3. National Yang Ming Chiao Tung Univ.)

[2P61] Plasmon-induced photochromic reactions under resonance conditions  
\*Yinhao XU<sup>1</sup>, Keisuke IMAEDA<sup>2</sup>, Kosei UENO<sup>2</sup> (1. Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ., 2. Fac. of Sci., Hokkaido Univ.)

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[2P62] Near-field spectral characteristics of coupled plasmonic systems

\*Hiroki TAKEUCHI<sup>1</sup>, Aya TAKAHASHI<sup>2</sup>, Keisuke IMAEDA<sup>3</sup>, Kosei UENO<sup>3</sup> (1. Grad. School Chem. Sci. and Eng., 2. Fac. Sci., Hokkaido Univ., 3. Fac. Sci., Hokkaido Univ.)

[2P63] Plasmon-induced optical force with coupled nano-engineered metallic particles

\*Yutong GUAN<sup>1</sup>, Keisuke IMAEDA<sup>2</sup>, Kosei UENO<sup>2</sup> (1. Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ., 2. Fac. of Sci., Hokkaido Univ.)

[2P64] Effect of adhesion layer on hot-electron transfer from gold nanodisks to titanium dioxide under modal strong coupling conditions

\*En CAO<sup>1</sup>, Xu SHI<sup>2</sup>, Yocefu HATTORI<sup>1</sup>, Quan SUN<sup>1</sup>, Shuai ZU<sup>1</sup>, Tomoya OSHIKIRI<sup>1</sup>, Hiroaki MISAWA<sup>1,3</sup> (1. RIES, Hokkaido Univ., 2. CRI, Hokkaido Univ., 3. National Yang Ming Jiaotong Univ.)

[2P65] Surface-enhanced Raman scattering under plasmon-nanocavity coupling condition

\*Xiaoqian ZANG<sup>1</sup>, Xu SHI<sup>2</sup>, Tomoya OSHIKIRI<sup>1</sup>, Yuji SUNABA<sup>1</sup>, Keiji SASAKI<sup>1</sup>, Hiroaki MISAWA<sup>1,3</sup> (1. RIES, Hokkaido Univ., 2. CRI, Hokkaido Univ., 3. National Yang Ming Chiao Tung Univ.)

[2P66] Loading of gold nanoparticles on microsphere showing whispering galley mode

\*Kazuki FURUYA<sup>1</sup>, Tomoya OSHIKIRI<sup>1</sup>, Xu SHI<sup>2</sup>, Hiroaki MISAWA<sup>1,3</sup> (1. RIES, Hokkaido Univ., 2. CRI, Hokkaido Univ., 3. National Yang Ming Chiao Tung Univ.)

[2P67] Novel Photon Up-conversion System on Clay Surface

\*Yuki NAKADAI<sup>1</sup>, Masumi UEHARA<sup>1</sup>, Syuta TSUCHIYA<sup>1</sup>, Tadaaki IKOMA<sup>1</sup>, Tatsuto YUI<sup>1</sup> (1. Fac. of Sci., Niigata Univ.)

[2P68] Effect of surface plasmon resonance on triplet annihilation-based upconversion system using C70 fullerene sensitizer

\*Takuho MATSUI<sup>1</sup>, Kosuke SUGAWA<sup>2</sup>, Joe OTSUKI<sup>2</sup>, Ryuzi KATOH<sup>3</sup> (1. Grad. Sch. Sci. and Tech., Nihon Univ., 2. College of Sci. and Tech., Nihon Univ., 3. College of Eng., Nihon Univ.)

[2P69] Optimal selection of sensitizer for plasmonic triplet annihilation-based upconversion systems

\*Kosuke SUGAWA<sup>1</sup>, Shota JIN<sup>1</sup>, Hironobu TAHARA<sup>2</sup>, Joe OTSUKI<sup>1</sup> (1. College Sci. Tech., Nihon Univ., 2. Grad. Sch. Eng., Nagasaki Univ.)

[2P70] Ag pattern formation using metal-vapor deposition selectivity of UV curable polydimethylsiloxane

\*Akari NISHIMURA<sup>1</sup>, Tsuyoshi TSUJIOKA<sup>1</sup> (1. Osaka-Kyoiku Univ.)

[2P71] Material patterning based on selective Mg-vapor deposition of diarylethenes and acid etching

\*Akari NISHIMURA<sup>1</sup>, Tsuyoshi TSUJIOKA<sup>1</sup> (1. Osaka-Kyoiku Univ.)

[2P72] Effect of substrate on vapor crystal growth of 1,2-bis(2,5-dimethyl-3-thienyl)perfluorocyclopentene

\*Mami ISOBE<sup>1</sup>, Daichi KITAGAWA<sup>1</sup>, Seiya KOBATAKE<sup>1</sup> (1. Grad. Sch. Eng., Osaka City Univ.)

[2P73] Two-photon absorption properties of 1-trinaphthylamine derivatives and the ring-condensation effect of on them

\*Shuhei OZAKI<sup>1,2</sup>, Dirk GULDI<sup>3</sup>, Kenji KAMADA<sup>1,2</sup> (1. NMRI, AIST, 2. Grad. Sch. of Sci. & Tech., Kwansai Gakuin Univ., 3. Dep. of Chem. & Pharm., Friedrich Alexander Univ. Erlangen-Nürnberg)

[2P74] Structural dynamics in the excited state of vapo-chromic Pt(II) complexes using time-resolved infrared spectroscopy.

\*Takumi EHARA<sup>1</sup>, Takanori TANAKA<sup>1</sup>, Kiyoshi MIYATA<sup>1</sup>, Daisuke SAITO<sup>2</sup>, Yasuhiro SHIGETA<sup>3</sup>, Masako KATO<sup>4</sup>, Ken ONDA<sup>1</sup> (1. Fac. of Sci. Kyushu Univ., 2. Grad. Sch. Chem. Sci. Eng., Hokkaido Univ., 3. Nanomaterials Research Inst., Kanazawa Univ., 4. Fac. of Biol. and Env. Sci., Kwansai Gakuin Univ.)

[2P75] Nanowire fluorescent ELISA toward quantitative detection of intracellular protein expression level

\*Haruka KOJIMA<sup>1</sup>, Kenji HIRAI<sup>1</sup>, Tomoko INOSE<sup>2</sup>, Hiroshi UJII<sup>1,3</sup> (1. Hokkaido Univ., 2. Kyoto Univ., 3. KULouvain)

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[2P76] Preparation of novel organic/inorganic complex using niobia nanosheet

\*Momoka OSHIMA<sup>1</sup>, Keito SANO<sup>1</sup>, Yugo HIRADE<sup>1</sup>, Tetsuya SHIMADA<sup>1</sup>, Tamao ISHIDA<sup>1,2</sup>, Shinsuke TAKAGI<sup>1,2</sup> (1. Grad. Sch. of Urban Environmental Sci., Tokyo Metropolitan Univ., 2. Research Center for Hydrogen Energy-based Society)

[2P77] EL and PL properties of single CsPbBr<sub>3</sub> perovskite nanocrystals

\*Ryotaro NAKAMURA<sup>1</sup> (1. Tokyo Inst. Tech)

[2P78] Photochemical preparation of Au-deposited Zn-Ag-In-Se nanorods and their photochemical properties depending on the heterostructure

\*Chizuru TAKAMORI<sup>1</sup>, Ko MASUOKA<sup>1</sup>, Tatsuya KAMEYAMA<sup>1,2</sup>, Susumu KUWABATA<sup>3</sup>, Tsukasa TORIMOTO<sup>1</sup> (1. Nagoya Univ., 2. JST-PRESTO, 3. Osaka Univ.)

[2P79] Adsorption behavior of cationic porphyrins on titania nanosheets exfoliated with alkali metal salts

\*Yugo HIRADE<sup>1</sup>, Keito SANO<sup>1</sup>, Hosei TAKIMOTO<sup>1</sup>, Tetsuya SHIMADA<sup>1</sup>, Tamao ISHIDA<sup>1,2</sup>, Shinsuke TAKAGI<sup>1,2</sup> (1. Fac. of Urb. Env. Sci., Tokyo Metropolitan Univ., 2. ReHES)

[2P80] Accumulation of functional molecules by using nanopores in protein crystals as the platform

\*Takayuki UWADA<sup>1</sup>, Nodoka TANUSHI<sup>1</sup>, Ryoma TAKESHITA<sup>1</sup>, Mitsuru ISHIKAWA<sup>1</sup> (1. Dep. Chem., Josai Univ.)

[2P81] Development of Au nanorod plasmonic catalyst covered with g-C<sub>3</sub>N<sub>4</sub> incorporating Co species for CO<sub>2</sub> reduction reaction by the assistance of Surface Plasmon Resonance

\*Kenjiro TAMAKI<sup>1</sup>, Takeharu YOSHII<sup>1</sup>, Yasutaka KUWAHARA<sup>1,2,3</sup>, Kohsuke MORI<sup>1,2</sup>, Hiromi YAMASHITA<sup>1,2</sup> (1. Grad.Eng., Osaka univ., 2. ESICB, Kyoto Univ., 3. PRESTO,JST)

[2P82] Molecule deposition in mask-shielded regions revealed by selective Mg vapor deposition of diarylethene

\*Hatsuka KUSAKA<sup>1</sup>, Arimi SHIMOTSU<sup>1</sup>, Tsuyoshi TSUJIOKA<sup>1</sup> (1. Osaka-Kyoiku Univ.)

[2P83] Effect of alkyl substituents at reactive carbon atoms on the photoresponsive properties of diarylethenes

\*Eri FUJISAWA<sup>1</sup>, Ifu BAN<sup>1</sup>, Ryo NISHIMURA<sup>1</sup>, Masakazu MORIMOTO<sup>1</sup>, Masahiro IRIE<sup>1</sup> (1. Fac. of Sci., Rikkyo University)

[2P84] Quantitative Evaluation of Cooperative Photoreaction Process and Photomechanical Behavior in 9-Methylanthracene Single Crystal

\*Kohei MORIMOTO<sup>1</sup>, Daichi KITAGAWA<sup>1</sup>, Fei TONG<sup>2</sup>, Christopher J. BARDEEN<sup>2</sup>, Seiya KOBATAKE<sup>1</sup> (1. Grad. Sch. Eng., Osaka City Univ., 2. Dept. of Chem., University of California, Riverside)