

Scientific Program

Monday, April 4

AM

10:00 Opening Ceremony

Invited (Room A)

Chairperson : Norbert Hoffmann (CNRS, Université de Reims, France)

IL1 **PORPHYRIN SENSITIZERS EXCEEDING WORLD CHAMPION
10:40** **DYES FOR HIGHLY EFFICIENT DYE-SENSITIZED SOLAR CELLS
AND THEIR TANDEM SOLAR CELLS FOR PHOTOVOLTAIC-
DRIVEN WATER SPLITTING APPLICATIONS**

Hwan Kyu Kim (Korea University, Republic of Korea)

Oral Session (Room A)

Chairpersons : Manabu Abe (Hiroshima University, Japan)
Robert Marshall Wilson (Bowling Green State University, USA)
Kazutaka Hirakawa (Shizuoka University, Japan)

1A02† **LEGO APPROACH TO FLUORESCENT PROBES AND SENSORS
11:10** **FROM 3- AND 4-AMINOPHTHALIMIDES FOR SINGLET OXYGEN,
ACHIRAL AND CHIRAL ANIONS**

Axel G. Griesbeck (University of Cologne, Germany)

1A03† **SUPRAMOLECULAR ASYMMETRIC PHOTOCHEMISTRY
11:30** **(SMAP) OF 2-ANTHRACENECARBOXYLATE (AC) WITH
PROTEINS AND PROTEIN-POLYMER HYBRIDS AS CHIRAL
REACTION MEDIAS – PEGYLATION OF HAS/BSA AND SMAP
OF AC MEDIATED BY PEG-HAS/BSA –**

Takehiko Wada (Tohoku University, Japan)

1A04† CONTROL OF STEREOCHEMISTRY ON PHOTOREACTINS OF DONOR-ACCEPTOR PAIRS BY EXCITATION WAVELENGTH

11:50

Tadashi Mori (Osaka University, Japan)

1A05† PHOTOCHEMISTRY OF AROMATIC-UREA COMPOUNDS INVOLVED IN THE EMISSIVE ELECTRONIC STATES

12:10

Yoshinobu Nishimura (University of Tsukuba, Japan)

1A06† PHOTOCHEMICAL SYNTHESIS AND PHOTOPHYSICAL FEATURES OF CONDENSED COUMARIN DERIVATIVES STUDIED BY EMISSION MEASUREMENTS, STEADY STATE AND LASER FLASH PHOTOLYSES

12:30

Minoru Yamaji (Gunma University, Japan)

Oral Session (Room B)

Chairpersons : Bunsho Ohtani (Hokkaido University, Japan)

Andrzej L. Sobolewski (Polish Academy of Sciences, Poland)

Takashi Kamegawa (Osaka Prefecture University, Japan)

1B01† DESIGN OF PLASMONIC NANOCATALYSTS FOR EFFICIENT H₂ PRODUCTION FROM H₂ CARRIER MOLECULES UNDER VISIBLE LIGHT IRRADIATION

10:50

Hiromi Yamashita (Osaka University, Japan)

1B02† PLASMON-INDUCED CHARGE SEPARATION AND PLASMONIC ENHANCEMENT EFFECTS FOR PHOTOCATALYTIC REACTIONS

11:10

Tetsu Tatsuma (University of Tokyo, Japan)

1B03† PHOTOCATALYTIC PERFORMANCES IN WELL-DEFINED METAL-SEMICONDUCTOR HYBRID NANOSTRUCTURES

11:30

Hyunjoon Song (Korea Advanced Institute of Science and Technology, Republic of Korea)

1B04† METHANE CONVERSION OVER GALLIUM OXIDE PHOTOCATALYSTS

11:50

Hisao Yoshida (Kyoto University, Japan)

**1B05† UNIQUE TiO₂ PHOTOCATALYTIC SYSTEMS EXHIBITING
12:10 UNPRECEDENTEDLY HIGH EFFICIENCY**

Yusuke Ide (National Institute for Materials Science, Japan)

**1B06† DEVELOPMENT OF SOLID PHOTOCATALYSTS BASED ON
12:30 MESOCRYSTAL SUPERSTRUCTURES**

Takashi Tachikawa (Kobe University, Japan)

Invited (Room C)

Chairperson : Jincai Zhao (Institute of Chemistry, CAS, China)

**IL2 EXCITON DIFFUSION, SINGLET FISSION AND PHOTOCHEMICAL
10:40 UPCONVERSION IN AROMATIC MOLECULAR CRYSTALS**

Ferdinand C. Grozema (Delft University of Technology, The Netherlands)

Oral Session (Room C)

Chairpersons : Kenji Matsuda (Kyoto University, Japan)
Andre Del Guerso (Universite de Bordeaux, France)
Hideko Koshima (Waseda University, Japan)

**1C02 HIGHLY SENSITIVE PHOTOCHROMIC TRIANGLE TERARYLENES;
11:10 PHOTO- AND ELECTRO-REACTIONS AND THEIR APPLICATIONS**

Tsuyoshi Kawai (Nara Institute of Science and Technology, Japan)

**1C03† MOLECULAR STRATEGIES OF DONOR-ACCEPTOR SMALL
11:30 CONJUGATED MOLECULES AND POLYMERS FOR ORGANIC
PHOTOVOLTAICS**

Tae-Dong Kim (Hannam University, Republic of Korea)

**1C04† FLEXIBLE AND WEARABLE SENSORS BASED ON ORGANIC
11:50 TRANSISTOR PLATFORMS**

Joon Hak Oh (Pohang University of Science and Technology, Republic of Korea)

**1C05 INVESTIGATING THE BEHAVIOR OF COMPLEX MULTI-SWITCHES
12:10 WITH THEORETICAL TOOLS**

Arnaud Fihey (Université de Nantes, France)

**1C06 RAPID PROTOTYPING OF CHEMICAL MICROSENSORS BASED
12:30 ON MOLECULARLY IMPRINTED POLYMERS SYNTHESIZED BY
PHOTOPOLYMERIZATION**

Arnaud Spangenberg (Institut de Science des Matériaux de Mulhouse, CNRS, France)

Oral Session (Room D)

Chairpersons : Keiji Okada (Osaka City University, Japan)
Shuichi Hashimoto (University of Tokushima, Japan)
Guoqiang Yang (University of Chinese Academy of Sciences, China)

**1D01 SYNTHESIS AND CHARACTERIZATION OF NEW ORGANIC
10:50 SEMICONDUCTING MATERIALS**

Yun-Hi Kim (Gyeongsang National University, Republic of Korea)

**1D02 TUNING ELECTRICAL CONDUCTIVITY BY PHOTOIRRADIATION
11:10 AND ELECTRIC FIELD**

Nobuhiro Ohta (National Chiao Tung University, Taiwan)

**1D03 FEMTOCHEMISTRY OF [Pt(en)(I)₂(OH)₂] AND [Pt(en)
11:30 (I)₂(CH₃COO)₂] COMPLEXES IN AQUEOUS SOLUTIONS**

Ivan P. Pozdnyakov (V.V. Voevodsky Institute of Chemical Kinetics and Combustion, Russia)

**1D04 NEAR-IR EMITTING Ir (III) COMPLEXES WITH HETEROAROMATIC
11:50 BETA-DIKETONATE ANCILLARY LIGANDS FOR EFFICIENT
SOLUTION PROCESSED OLEDs: STRUCTURE-PROPERTY
CORRELATIONS**

Alberto Bossi (Istituto di Scienze e Tecnologie Molecolari del CNR, Italy)

1D05 **PHOTOCHEMICAL PROCESSES FOR HALOID PLATINUM
12:10** **COMPLEXES**

Victor Fedorovich Plyusnin (Institute of Chemical Kinetics and Combustion, Russia)

1D06† **WATER-BORNE ORGANIC SEMICONDUCTORS FOR GREEN
12:30** **OPTO-ELECTRONICS**

Dae Sung Chung (Chung-Ang University, Republic of Korea)

Oral Session (Room E)

Chairpersons : Stephen Meech (University of East Anglia, United Kingdom)
Kazuhito Tanabe (Aoyama Gakuin University, Japan)
Jiangyun Wang (Chinese Academy of Sciences, China)

1E01 **REACTION KINETICS AND MAGNETIC FIELD EFFECT IN ANIMAL
10:50** **CRYPTOCHROMES**

Kiminori Maeda (Saitama University, Japan)

1E02† **IRIDIUM (III) COMPLEXES AS PHOTOACTIVATABLE
11:10** **MODULATORS FOR AMYLOID PEPTIDE AGGREGATION
THROUGH DIVERSE MECHANISMS**

Mi Hee Lim (Ulsan National Institute of Science and Technology, Republic of Korea)

1E03 **PHOTOACTIVE HELICATES: PHOTOINDUCED ELECTRON AND
11:30** **REVERSIBLE ELECTRONIC ENERGY TRANSFER IN GIANT
FOLDAMERS AND FOLDAXANES**

Nathan D. McClenaghan (University of Bordeaux, France)

1E04 **NON-COVALENT PHOTOCONTROL OF DNA MELTING/
11:50** **HYBRIDIZATION AT CONSTANT TEMPERATURE USING A
PHOTOSENSITIVE INTERCALATOR**

Sergii Rudiuk (Ecole Normale Supérieure-PSL Research University, France)

1E05 **PHOTOCAGED AGGREGATION INDUCED EMISSION
12:10** **FLUOROPHORES AND BIOMOLECULES FOR CONTROLLING
THEIR FLUORESCENCE AND BIOCHEMICAL ACTIVITY**

Aijun Tong (Tsinghua University, China)

1E06 **A NOVEL AZOPYRIDINE-BASED Ru (II) COMPLEX WITH GSH-
12:30** **RESPONSIVE DNA PHOTOBINDING ABILITY**

Qian-Xiong Zhou (Technical Institute of Physics and Chemistry, CAS, China)

PM

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Invited (Room A)

Chairperson : Axel G. Griesbeck (University of Cologne, Germany)

IL3 **PHOTOASSISTED SYNTHESIS OF COMPLEX POLYHETEROCYCLIC
14:00** **MOLECULAR ARCHITECTURES**

Andrei G. Kutateladze (University of Denver, USA)

Oral Session (Room A)

Chairpersons : Hugh D. Burrows (University of Coimbra, Portugal)
Takehiko Wada (Tohoku University, Japan)
Gotard Tadeusz Burdzinski (Adam Mickiewicz University,
Poland)

1A08† **DESIGN AND SYNTHESIS OF A NEW CHROMOPHORE,
14:30** **2-(4-NITROPHENYL)BENZOFURAN, FOR TWO-PHOTON
UNCAGING USING NEAR-IR LIGHT**

Manabu Abe (Hiroshima University, Japan)

1A09† **CONVERSION EFFICIENCY ENHANCEMENT IN CAGED
14:50** **COMPOUNDS BY PHOTOINDUCED ELECTRON TRANSFER**

Atsuya Momotake (University of Tsukuba, Japan)

- 1A10** **HOMOGENEOUS PHOTOCATALYTIC WATER OXIDATION BY A
15:10** **DINUCLEAR COBALT (III) COMPLEX**
Takahiko Kojima (University of Tsukuba, Japan)
- 1A11** **PHOTOINDUCED ELECTRON TRANSFER OXYGENATION OF
15:30** **ORGANIC COMPOUNDS. MECHANISTIC INSIGHT INTO
PRODUCT FORMATION**
Ryoichi Akaba (Nagasaki University, Japan)
- 1A12** **O-ACYLOXIME-BASED PHOTOLABILE CROSSLINKERS AND
15:50** **THEIR DEGRADATION IN POLYMERS**
Kanji Suyama (Osaka Prefecture University, Japan)
- 1A13** **DIRECT OBSERVATION OF INTERSYSTEM CROSSING RATE BY
16:10** **TRANSIENT ABSORPTION TECHNIQUE BASED ON RIPT METHOD**
Tatsuo Nakagawa (Unisoku Co., Ltd., Japan)
- 1A14** **Withdrawn**
16:30
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Oral Session (Room B)

Chairpersons : Maarten Roeffaers (KU Leuven, Belgium)
Young Soo Kang (Sogang University, Republic of Korea)
Zhenfeng Bian (Shanghai Normal University, China)

- 1B07†** **FUNDAMENTAL ASPECTS OF PARTICULATE PHOTOCATALYSIS:
14:10** **ENERGY-RESOLVED DISTRIBUTION OF ELECTRON TRAPS AND
LIGHT-INTENSITY DEPENDENCE**
Bunsho Ohtani (Hokkaido University, Japan)
- 1B08†** **PHOTOCATALYTIC AND PHOTOELECTROCHEMICAL WATER
14:30** **SPLITTING UNDER VISIBLE LIGHT**
Ryu Abe (Kyoto University, Japan)

- 1B09†** **GaN:ZnO MODIFIED WITH ORGANIC DYE FOR VISIBLE LIGHT WATER SPLITTING**
14:50
Tatsumi Ishihara (Kyushu University, Japan)
- 1B10†** **PHOTO/THERMO-SYNERGISTIC CATALYSIS: THE CASES STUDIES OF CeO₂ AND Co₃O₄ BASED NANOSTRUCTURES**
15:10
Wenzhong Wang (Shanghai Institute of Ceramics, China)
- 1B11†** **A VISIBLE-LIGHT HARVESTING SYSTEM FOR CO₂ REDUCTION USING A SUPRAMOLECULAR PHOTOCATALYST ADSORBED IN PERIODIC MESOPOROUS ORGANOSILICA**
15:30
Osamu Ishitani (Tokyo Institute of Technology, Japan)
- 1B12†** **VISIBLE-LIGHT INDUCED CONVERSION OF CARBON DIOXIDE TO FORMIC ACID WITH THE SYSTEM CONSISTING OF WATER-SOLUBLE ZINC PORPHYRIN AND FORMATE DEHYDROGENASE ELECTRON-MEDIATED VIologen DERIVATIVE**
15:50
Yutaka Amao (Osaka City University, Japan)
- 1B13†** **BIOINSPIRED PHOTOCATALYSTS WITH VITAMIN B₁₂ ENZYME FUNCTION**
16:10
Hisashi Shimakoshi (Kyushu University, Japan)
- 1B14†** **HYBRID PHOTOCATALYSTS BASED ON METAL COMPLEXES FOR VISIBLE-LIGHT DRIVEN HYDROGEN PRODUCTION**
16:30
Kohsuke Mori (Osaka University, Japan)

Invited (Room C)

Chairperson : Michael William George (University of Nottingham, United Kingdom)

- IL4** **NON CLASSICAL EFFECTS IN PROTON OR HYDROGEN TRANSFER**
14:00
Jacek Waluk (Polish Academy of Sciences, Poland)

Oral Session (Room C)

Chairpersons : Tsuyoshi Kawai (Nara Institute of Science and Technology,
Japan)
Chih-Wei Chang (National Changhua University of Education,
Taiwan)
Maria Lurdes Cristiano (Universidade do Algarve, Portugal)

1C08 **PHOTOCONTROL OF 2-DIMENSIONAL SELF-ASSEMBLY OF
14:30** **PHOTOCHROMIC DIARYLETHENE AT LIQUID/SOLID INTERFACE**

Kenji Matsuda (Kyoto University, Japan)

1C09† **INTER-DIFFUSED BILAYER ORGANIC PHOTOVOLTAICS
14:50** **PREPARED BY SEQUENTIAL SOLUTION DEPOSITION PROCESSES**

Kyungkon Kim (Ewha Womans University, Republic of Korea)

1C10 **PHOTOVOLTAICS WITHOUT p-n JUNCTION: COMPUTATIONAL
15:10** **STUDY ON FERROELECTRIC ORGANIC SYSTEMS**

Andrzej L. Sobolewski (Polish Academy of Sciences, Poland)

1C11† **STRATEGIES OF IMPROVING STABILITY OF ORGANIC SOLAR
15:30** **CELLS**

BongSoo Kim (Ewha Womans University, Republic of Korea)

1C12 **SLOW HOT CARRIER COOLING AND ULTRAFAST HOLE
15:50** **TRANSFER IN CsPbI₃ PEROVSKITE: POTENTIAL FOR HOT
CARRIER SOLAR CELL APPLICATION**

Qing Shen (The University of Electro-Communications, Japan)

1C13 **ORGANIC SENSITIZERS WITH A FUSED AROMATIC SEGMENT
16:10** **COMPRISING AN ELECTRON EXCESSIVE AND AN ELECTRON
DEFICIENT UNITS IN THE CONJUGATED SPACER FOR DYE-
SENSITIZED SOLAR CELLS**

Giann T'suen Lin (Academia Sinica, Taiwan)

1C14† **SEMI-CRYSTALLINE PHOTOVOLTAIC POLYMERS FOR
16:30** **APPLICATION IN FULLERENE AND NONFULLERENE SOLAR
CELLS**

Han Young Woo (Korea University, Republic of Korea)

Invited (Room D)

Chairperson : Yuan-Pern Lee (National Chiao Tung University, Taiwan)

IL5 **TIME-RESOLVED SPECTROSCOPIC STUDIES OF SELECTED**
14:00 **BLEBBISTATIN DERIVATIVES AND BIFUNCTIONAL QUINONE**
METHIDES

David L. Phillips (The University of Hong Kong, China)

Oral Session (Room D)

Chairpersons : Nobuhiro Ohta (National Chiao Tung University, Taiwan)

Chuanyi Wang (Xinjiang Technical Institute of Physics &
Chemistry, CAS, China)

Ming-Chang Lin (National Chiao Tung University, Taiwan)

1D08 **FAR- AND DEEP-ULTRAVIOLET SURFACE PLASMON**
14:30 **RESONANCE PROPERTIES OF ALUMINUM THIN FILMS**
DEPENDING ON SURROUNDING REFRACTIVE INDEX

Yukihiro Ozaki (Kwansei Gakuin University, Japan)

1D09 **COMPREHENSIVE SPECTROSCOPIC STUDIES FOR CIS- AND**
14:50 **TRANS-ISOMERS OF RED-PHOSPHORESCENT HETEROLEPTIC**
IRIDIUM (III) COMPLEXES

Dae Won Cho (Korea University, Republic of Korea)

1D10 **FABRICATION OF GOLD CORE-SHELL NANOSTRUCTURE BY**
15:10 **EXPLOITING NANOSCALE THERMOPHORESIS**

Shuichi Hashimoto (University of Tokushima, Japan)

1D11 † **EXCIPLEX: FROM ITS NATURE TO APPLICATIONS**

15:30 Jang-Joo Kim (Seoul National University, Republic of Korea)

1D12 **ASTROPHOTOCHEMISTRY, MOLECULAR COMPLEXIFICATION**
15:50 **IN THE GRAINS OF THE INTERSTELLAR MEDIUM**

Fabien Borget (Aix-Marseille Université, France)

1D13 † **POLYMER DESIGNER FOR HIGH-PERFORMANCE AND**
16:10 **MECHANICAL-ROBUST ALL-POLYMER SOLAR CELLS**

Bumjoon Kim (Korea Advanced Institute of Science and Technology,
Republic of Korea)

1D14† 16:30 GRAPHENODIZATION: FACILE SYNTHESIS OF TiO₂ NANOTUBE ARRAYS COVERED WITH REDUCED GRAPHENE OXIDE AND TiO₂ NANOPARTICLES FOR CO₂ REDUCTION

Su-Il In (Daegu Gyeongbuk Institute of Science & Technology, Republic of Korea)

Oral Session (Room E)

Chairpersons : Stefan Uwe Haacke (University of Strasbourg, France)
Youngmin You (Ewha Womans University, Republic of Korea)
Mi Hee Lim (Ulsan National Institute of Science and Technology, Republic of Korea)

1E07 14:10 NEAR-INFRARED LIGHT-RESPONSIVE NANOMATERIALS IN CANCER THERAPY

Chen-Sheng Yeh (Cheng Kung University, Taiwan)

1E08 14:30 RATIOMETRIC SENSING OF OXYGEN STATUS IN LIVING CELLS BY PHOSPHORESCENT RUTHENIUM COMPLEXES WITH FLUORESCENT UNIT

Kazuhito Tanabe (Aoyama Gakuin University, Japan)

1E09 14:50 MULTIFUNCTIONAL NANOASSEMBLIES WITH HIGH PAYLOAD FOR SENSITIVE BIOIMAGING AND ON-DEMAND DRUG DELIVERY

Eléna Ishow (University of Nantes, France)

1E10 15:10 NANOPARTICLE SELF-LIGHTING PHOTODYNAMIC THERAPY FOR CANCER TREATMENT

Wei Chen (University of Texas at Arlington, USA)

1E11 15:30 SINGLET OXYGEN PHOTOSENSITIZING MATERIALS AND CONJUGATES FOR ENVIRONMENTAL AND BIOMEDICAL APPLICATIONS

David García-Fresnadillo (Universidad Complutense de Madrid, Spain)

1E12 TOWARDS DESIGNING FLUORESCENT PROTEINS WITH IMPROVED PHOTOPHYSICAL PROPERTIES

Prem P. Chapagain (Florida International University, USA)

1E13 BACTERIA-MEDIATED HYPOXIA-SPECIFIC DELIVERY OF NANOPARTICLES FOR TUMORS IMAGING AND THERAPY

Cheng-Hung Luo (National Cheng Kung University, Taiwan)

1E14 CATALYTIC KINETICS OF DIFFERENT TYPES OF SURFACE ATOMS ON INDIVIDUAL NANOCRYSTALS

Weilin Xu (Chinese Academy of Science, China)

Poster Session (Room C)

17:00~18:30

1P01 SUBSTITUENT EFFECTS ON ETHER BOND CLEAVAGE IN PHOTOSOLVOLYSIS OF 2-BENZYLOXYNAPHTHALENE

Satoshi Usui (Niigata University, Japan)

1P02 STRATEGY FOR CONSTRUCTION OF NOVEL NEGATIVE PHOTOCHROMIC COMPOUND WITH THE RATIONAL MOLECULAR DESIGN

Sayaka Hatano (Hiroshima University, Japan)

1P03 PHOTOCHEMICAL REACTIONS OF 1-SUBSTITUTED 7-AZAI SATINS AND ISATIN WITH 2,3-DIMETHYLBUT-2-ENE

Jiro Tatsugi (Aichi Institute of Technology, Japan)

1P04 SYNTHESIS AND APPLICATIONS OF NOVEL 1,7-DIBROMO- AND 1,6,7,12-TETRACHLORO-PERYLENE-3,4,9,10-TETRACARBOXYLIC ACID DERIVATIVES

Rajeev K. Dubey (Delft University of Technology, The Netherlands)

1P05 DETECTION OF NITRO EXPLOSIVES AND ANION SENSING BY FLUORESCENT ZINC-BIS(SALICYLALDIMINE) COMPLEXES

Jing-Yun Wu (National Chi Nan University, Taiwan)

- 1P06 OPTICAL PROPERTY OF ACCEPTOR-DONOR-ACCEPTOR TYPE OLIGOTHIOPHENES**
Hiroaki Tachibana (National Institute of Advanced Industrial Science and Technology, Japan)
- 1P07 VISIBLE-LIGHT INDUCED TWO-ELECTRON OXIDATION OF WATER TO HYDROGEN PEROXIDE SENSITIZED BY DI(HYDROXO)PORPHYRIN Ge^{IV} COMPLEX**
Tsutomu Shiragami (University of Miyazaki, Japan)
- 1P08 A NOVEL DONOR-ACCEPTOR CONJUGATED POLYMER WITH MULTI-FUNCTIONAL CHARACTERISTICS FOR USE IN HIGH-PERFORMANCE BULK HETEROJUNCTION SOLAR CELLS**
Myeong-Jong Kim (Research Institute for Green Energy Convergence Technology, Republic of Korea)
- 1P09 π -CONJUGATED CYCLIC AND LINEAR CARBAZOLE TETRAMERS**
Kazuya Ogawa (University of Yamanashi, Japan)
- 1P10 TIME-RESOLVED FLUORESCENCE SPECTROSCOPY IN THE ANALYSIS OF FOOD MATRICES**
Georgios E. Arnaoutakis (Edinburgh Instruments Ltd., United Kingdom)
- 1P11 ENHANCED PERFORMANCE AND STABILITY OF SEMITRANSSPARENT PEROVSKITE SOLAR CELLS USING SOLUTION-PROCESSED THIOLFUNCTIONALIZED CATIONIC SURFACTANT AS CATHODE BUFFER LAYER**
Chih-Yu Chang (Feng Chia University, Taiwan)
- 1P12 CATION SENSING INDUCED LUMINESCENCE MODULATION OF LANTHANIDE-ORGANIC COORDINATION POLYMERS**
Yen-Hsiang Liu (Fu Jen Catholic University, Taiwan)
- 1P13 ENHANCED CATALYTIC EFFICIENCY OF CO₂ PHOTO-REDUCTION BY USING POLYTHIOPHENE-DERIVED TWO-DIMENSIONAL POLYMERS AS SENSITIZER**
Leeyih Wang (National Taiwan University, Taiwan)

- 1P14 ELECTROCHEMICALLY-CONTROLLED EXTRACELLULAR ELECTRON TRANSFER FROM PHOTOSYNTHETIC CYANOBACTERIAL CELLS**
Shuji Nakanishi (Osaka University, Japan)
- 1P15 ADVANCED MICROSCOPY METHODS TO PROBE PHOTOCROMIC AND FLUORESCENT NANOMATERIALS**
Arnaud Brosseau (Université Paris-Saclay, France)
- 1P16 POLYMER FOR ADVANCING THE ELECTRICAL STABILITY OF ORGANIC FIELD-EFFECT TRANSISTORS (OFETS)**
Jeong-Hun Park (Gyeongsang National University, Republic of Korea)
- 1P17 PYRENE EXCIMER SIGNALING MOLECULAR BEACONS FOR PROBING THE pH CHANGES**
Anna Dembska (Adam Mickiewicz University, Poland)
- 1P18 ULTRAFast SPECTROSCOPY OF OXYGENASE DOMAIN OF ENDOTHELIAL NITRIC OXIDE SYNTHASE**
Atsushi Yabushita (National Chiao-Tung University, Taiwan)
- 1P19 FORMATION OF THREE-ELECTRON SULFUR-SULFUR BOND AS A PROBE FOR INTERACTIONS BETWEEN SIDE CHAINS OF AMINO ACID RESIDUES**
Piotr Filipiak (Adam Mickiewicz University, Poland)
- 1P20 MULTIFUNCTIONAL MIXED MICELLES LOADING INDOCYANINE GREEN FOR PHOTOTHERMAL AND PHOTODYNAMIC THERAPY**
Ching-Yi Chen (National Chung Cheng University, Taiwan)
- 1P21 AMPLIFICATION OF FLUORESCENCE PHOTOSWITCHING IN MOLECULAR AND HYBRID NANOPARTICLES**
Rémi Métivier (Université Paris-Saclay, France)
- 1P22 DEVELOPMENT OF CIRCULAR DICHROISM DETECTION SYSTEM WITH ELLIPTICALLY-POLARIZED LIGHT AND ITS APPLICATION TO THE SUPRAMOLECULAR DYNAMICS**
Yasuyuki Araki (Tohoku University, Japan)

- 1P23** **PHOTOCATALYTIC HYDROXYLATION OF BENZENE TO PHENOL ON NOVEL VO_x NANOPARTICLES STABILIZED MESO-CLAY PHOTOCATALYSTS UNDER UV IRRADIATION**
Tegshi Muschin (Inner Mongolia Normal University, China)
- 1P24** **ENHANCED PHOTOELECTROCATALYTIC PERFORMANCE OF REDUCED GRAPHENE OXIDE MODIFIED TiO₂ BASED PHOTOELECTRODES**
Yu Kou Du (Soochow University, China)
- 1P25** **GOLD NANOPARTICLE MODIFIED TiO₂ NANOTUBE WITH ENHANCED PHOTOELECTROCATALYTIC ACTIVITIES**
Xiaoyun Hu (Northwest University, China)
- 1P26** **THE NEW IRIIDIUM COMPLEXES FOR HIGH EFFICIENT PHOSPHORESCENT ORGANIC SEMECONDUCTING MATERIALS (OLEDs)**
Ji Eun Lee (Gyeongsang National University, Republic of Korea)
- 1P27** **PHOTOCHEMISTRY AND INFRARED SPECTRA OF ALLENE AND PROPYNE CATIONS IN SOLID ARGON**
Yu-Jong Wu (National Synchrotron Radiation Research Center, Taiwan)
- 1P28** **NEW UP-CONVERSION BLUE MATERIAL BASED ON AZASILINE FOR HIGH EXTERNAL QUANTUM EFFICIENCY ABOVE 20% IN THERMALLY ACTIVATED DELAYED FLUORESCENCE DEVICE**
Jang Yeol Baek (Gyeongsang National University, Republic of Korea)
- 1P29** **SYSTEMATIC OPTIMIZATION OF LOW-BANDGAP POLYMERIC PHOTODIODE TOWARD LOW DARK CURRENT AND HIGH DETECTIVITY**
Seongwon Yoon (Chung-Ang University, Republic of Korea)
- 1P30** **ORGANIC SEMICONDUCTORS FOR SOLUTION PROCESSED OTFTs**
Hyeng Gun Song (Gyeongsang National University, Republic of Korea)

- 1P31 THE LINKAGE POSITION DEPENDENT EXCITONIC COUPLING THROUGH TWO TYPES OF β , β LINKED LINEAR PORPHYRINS**
Taeyeon Kim (Yonsei University, Republic of Korea)
- 1P32 DIASTEREODIFFERENTIATING PATERNÓ-BÜCHI REACTION OF CHIRAL p-CYANOENZOATE TO α -METHYLSTYRENE. DIRECT VERSUS CHARGE-TRANSFER BAND EXCITATION**
Keisuke Nagasaki (Osaka University, Japan)
- 1P33 DEVELOPING SOLUTION-PROCESSABLE PHOTOPRECURSORS OF NARROW-BAND-GAP P-TYPE MATERIALS TOWARDS EFFICIENT ORGANIC SOLAR CELLS**
Naoto Nagami (Nara Institute of Science and Technology, Japan)
- 1P34 RIGIDOCROMIC PHOSPHORESCENCE BEHAVIOR OF NOVEL BIS-CYCLOMETALATED IRIIDIUM (III) COMPLEXES BASED ON LIGAND-TO-LIGAND CHARGE TRANSFER TRANSITIONS**
Yamato Kitade (Osaka Prefecture University, Japan)
- 1P35 ABSORPTION PROPERTIES OF PHENONIUM ION-CONTAINING SALTS POSSESSING EXTENDED CROSS-CONJUGATION SYSTEM**
Yutaro Kuramoto (Osaka Prefecture University, Japan)
- 1P36 SYNTHESIS AND PHOTOPHYSICAL PROPERTIES OF MECHANOFUOROCHROMIC MOLECULAR MATERIALS**
Marine Louis (ENS Cachan Université Paris-Saclay, CNRS, France)
- 1P37 PHOTOPOLYMERIZATION OF ACYLATE WITH POLYDIMETHYLSILOXANE FOR SLA 3-D PRINTING**
Hyun-Su Kim (Dankook University, Republic of Korea)
- 1P38 INTRODUCTION OF FLOW LITHOGRAPHY AND VERSATILE APPLICATIONS**
Sunghyun Ahn (Ulsan National Institute of Science and Technology, Republic of Korea)

- 1P39 SURFACE CONFINED SELF-ASSEMBLY COMPOSED OF DIARYLETHENES AT THE LIQUID/SOLID INTERFACE AND EFFECT OF SUBSTITUTION POSITION OF THIENYL GROUP**
Naoki Maeda (Kyoto University, Japan)
- 1P40 PHOTOCHEMICAL BEHAVIOR OF STILBENE DERIVATIVES IN BOVINE SERUM ALBUMIN**
Yuka Ishida (University of Tsukuba, Japan)
- 1P41 LIGHT-DRIVEN TWISTING MOTION OF SALICYLIDENEPHENYLETHYLAMINE SINGLE CRYSTALS**
Akifumi Takanabe (Waseda University, Japan)
- 1P42 PHOTORESPONSIVE POLY(VINYL ALCOHOL) CARRYING A MALACHITE GREEN MOIETY INDUCES COMPACTION IN DNA AND PROTECTS DNA AGAINST NUCLEASE**
Takashi Matsui (Nara College, Japan)
- 1P43 INDUCED CHIRALITY OF CYANINE DYE-AGGREGATES WITH HYALURONIC ACID**
Haruko Tobata (Kyoto University, Japan)
- 1P44 GIANT MORPHOLOGICAL CHANGE IN LAYERED MICRORIBBONS FEATURING REVERSIBLE SLIDING OF STACKING LAYERS**
Yifan Zhang (Chinese Academy of Sciences, China)
- 1P45 SYNTHESIS AND CHARACTERIZATION OF D-A CONJUGATED NOVEL POLYMER IS HIGH-PERFORMANCE OTFTS**
Hui-Jun Yun (Gyeongsang National University, Republic of Korea)
- 1P46 SYNTHESIS OF HIGH SOLUBILITY POLYMER FOR ORGANIC SOLAR CELL**
Ji Sang Lee (Gyeongsang National University, Republic of Korea)
- 1P47 HIGHLY EFFICIENT EXCIMER PHOSPHORESCENCE FROM CYCLOMETALATED PLATINUM (II) COMPLEXES WITH BENZOYLATED PHENYLPYRIDINATE LIGANDS**
Naoki Okamura (Osaka Prefecture University, Japan)

- 1P48** **TRIPHENYLAMINE-SUBSTITUTED GREEN FLUORESCENT PROTEIN CHROMOPHORE: A FLUORESCENT PROBE WITH LARGE TWO PHOTON ABSORPTION CROSS SECTION FOR LIPID DROPLET IMAGING**
Meijuan Jiang (The Hong Kong University of Science and Technology, China)
- 1P49** **CAGED COMPOUNDS AS LIGHT-DEPENDENT INITIATORS FOR ENZYME-CATALYSED REACTIONS**
Emma Castiglioni (The University of Manchester, United Kingdom)
- 1P50** **A THREE DIMENSIONAL Pt NANODENDRITE/GRAPHENE/MnO₂ NANOFLOWER MODIFIED ELECTRODE FOR THE SENSITIVE AND SELECTIVE DETECTION OF DOPAMINE**
Bei bei Yang (Soochow University, China)
- 1P51** **KINETIC STUDY OF THERMALLY ACTIVATED DELAYED FLUORESCENCE PROCESS OF CARBAZOLYL DICYANOBENZENE DERIVATIVES WITH DONOR AND ACCEPTOR UNITS**
Chiho Lee (Korea University, Republic of Korea)
- 1P52** **IN SITU GROWTH OF TiO₂ NANOCRYSTALS ON g-C₃N₄ FOR ENHANCED PHOTOCATALYTIC PERFORMANCE**
Hong Li (East China University of Science and Technology, China)
- 1P53** **UNIFORM YOLK-SHELL STRUCTURED Fe₃O₄@VOID@TiO₂ AS AN ADVANCED PHOTO-FENTON-LIKE CATALYST**
Dan Du (East China University of Science and Technology, China)
- 1P54** **ENHANCED VISIBLE LIGHT PHOTOCATALYTIC ACTIVITY AND RECYCLED Bi/N-DOPED TiO₂ SUPPORTED BY GRAPHITE C COMPOSITES FOR DEGRADATION OF DIESEL**
Jing Zhang (Tongji University, China)
- 1P55** **NICKEL AND LANTHANUM HYDROXIDE NANOCOMPOSITES WITH IMPROVED ELECTROCHEMICAL PERFORMANCE FOR SUPERCAPACITORS**
Kuan Hung Ho (National University of Singapore, Singapore)

- 1P56** **TEMPLATE-FREE SYNTHESIS OF γ -Ga₂O₃ NANOSHEETS FOR SELECTIVE PHOTOCATALYTIC OXIDATION OF BENZYLIC ALCOHOLS UNDER VISIBLE LIGHT**
Xiaoyan Zhang (Fuzhou University, China)
- 1P57** **ZnO-Cu₂O COLLOIDAL NANOCATALYSTS FOR HIGH PERFORMANCE PHOTOCATALYTIC CO₂ CONVERSION INTO CH₄ IN AQUEOUS SOLUTION**
Kyung-Lyul Bae (Korea Advanced Institute of Science and Technology, Republic of Korea)
- 1P58** **DEVELOPMENT OF LONG WAVELENGTH RESPONSIVE H₂-EVOLUTION PHOTOCATALYSTS FOR Z-SCHEME OVERALL WATER SPLITTING UNDER VISIBLE LIGHT IRRADIATION**
Yu Qi (Dalian Institute of Chemical Physics, CAS, China)
- 1P59** **PHOTO-FENTON RECYCLABLE Fe₃O₄@HCS ADSORBENT FOR THE ELIMINATION OF TETRACYCLINE HYDROCHLORIDE**
Kaifeng Gan (East China University of Science and Technology, China)
- 1P60** **INVERTED PHOTODIODE WITH HYBRID PLANAR HETEROJUNCTION**
JaeUn Ha (Chung-Ang University, Republic of Korea)
- 1P61** **EFFECTS OF ADSORPTION SITES ON ELECTRON TRANSFER FROM CdS QUANTUM DOTS TO MOLECULAR CATALYST COBALOXIME STUDIED BY TIME-RESOLVED SPECTROSCOPY**
Yun Ye (Dalian Institute of Chemical Physics, CAS, China)
- 1P62** **A TERNARY BIOLOGICAL-INORGANIC SYSTEM FOR SOLAR ENERGY STORAGE AND H₂ PRODUCTION FROM WATER SPLITTING**
Zhen Li (Dalian Institute of Chemical Physics, China)
- 1P63** **THE DESIGN OF NOVEL D-A COPOLYMERS HAVING A HIGH MOBILITY PERFORMANCE FOR OTFT MATERIALS**
Ye Seul Lee (Gyeongsang National University, Republic of Korea)

Tuesday, April 5

AM

Plenary (Room A)

Chairperson : Tetsuro Majima (Osaka University, Japan)

PL1 PHOTOCATALYSIS AND CO₂ REDUCTION

10:00 Akira Fujishima (Tokyo University of Science, Japan)

Invited (Room A)

Chairperson : Miguel Angel García-Garibay (University of California, LA, USA)

IL6 PHOTO-INDUCED DYNAMICS IN SEMICONDUCTOR 11:00 NANOCRYSTALS AND THEIR COMPOSITES

Tõnu Pullerits (Lund University, Sweden)

Oral Session (Room A)

Chairpersons : Naoto Tamai (Kwansei Gakuin University, Japan)
Oliver S. Wenger (University of Basel, Switzerland)
Ryoichi Akaba (Nagasaki University, Japan)

2A02 HIGHLY EFFICIENT LIGHT-HARVESTING ANTENNA SYSTEMS 11:30 BASED ON 1,7-PERYLENE-3,4,9,10-TETRACARBOXYLIC ACID DERIVATIVES OBTAINED BY A MODULAR APPROACH

Wolter F. Jager (Delft University of Technology, The Netherlands)

2A03[†] HOW TO EXPLOIT THE “Mr. HYDE” CHARACTER OF THE 11:50 EXCITED STATE ANTIAROMATIC BENZENE RING FOR NEW PHOTOCHEMISTRY?

Henrik Ottosson (Uppsala University, Sweden)

2A04 ULTRAFast LASER SPECTROSCOPIC STUDIES OF THE 12:10 ELECTRONIC PROPERTIES AND REACTIVITIES OF PHENYLOXENIUM ION REACTIVE INTERMEDIATES

Ming De Li (University of Hong Kong, China)

2A05 INVERTED PEROVSKITE SOLAR CELLS WITH HIGH FILL FACTOR AND NO HYSTERESIS

12:30

Chun-Guey Wu (National Central University, Taiwan)

Oral Session (Room B)

Chairpersons : Soo Young Park (Seoul National University, Republic of Korea)

Juyoung Yoon (Ewha Womans University, Republic of Korea)

Tohru Sekino (Osaka University, Japan)

2B01 † SANDWICHED GRAPHENE MODIFIED MESOPOROUS TITANIA SINGLE CRYSTALS WITH UNIQUE AND EXCELLENT PHOTOOXIDATION SURFACE

11:10

Jinlong Zhang (East China University of Science and Technology, China)

2B02 SYNTHESIS OF COMPOSITE TYPE PHOTOCATALYSTS AND THEIR ENHANCED SOLAR LIGHT UTILIZATION EFFICIENCY

11:30

Shu Yin (Tohoku University, Japan)

2B03 † ARTIFICIAL PHOTOSYNTHESIS USING ALL-SOILD-STATE PHOTOCATALYSTS -PHOTOCATALYTIC CONVERSION OF CO₂ BY H₂O AS AN ELECTRON DONOR

11:50

Kentaro Teramura (Kyoto University, Japan)

2B04 † TiO₂ MESOCRYSTALS FOR IMPROVED PHOTOCATALYSIS

12:10

Zhenfeng Bian (Shanghai Normal University, China)

2B05 † EFFICIENT PHOTOCATHODE MATERIAL FOR WATER SPLITTING BASED ON A KESTERITE THIN FILM MODIFIED WITH AN INDIUM SULFIDE/CADMIUM SULFIDE DOUBLE LAYER AND PLATINUM DEPOSITES

12:30

Shigeru Ikeda (Osaka University, Japan)

Invited (Room C)

Chairperson : Yun-Hi Kim (Gyeongsang National University, Republic of Korea)

IL7 11:00 ULTRAFAST DYNAMICS WITHIN MOF-BASED COMPOSITES AND EFFICIENT WHITE LIGHT GENERATION

Abderrazzak Douhal (Universidad de Castilla-La Mancha, Spain)

Oral Session (Room C)

Chairpersons : Taro Toyoda (The University of Electro-Communications, Japan)

Yixin Zhao (Shanghai Jiao Tong University, China)

Weifeng Yao (Shanghai University of Electric Power, China)

2C02 11:30 USING CLAY NANOPARTICLES TO TURN DARK DYE INTO FLUORESCENT HYBRID COMPOUNDS: A STEADY-STATE AND TIME RESOLVED STUDY OF HYBRID PHOTOPHYSICS

Christian Ley (Université de Haute Alsace, France)

2C03[†] 11:50 FLEXIBLE WHITE ORGANIC LIGHT-EMITTING DIODE WITH ENHANCED EFFICIENCY AND COLOR STABILITY BY INTRODUCTION OF INTERNAL/EXTERNAL LIGHT-EXTRACTION LAYER

Jonghee Lee (Electronics and Telecommunications Research Institute, Republic of Korea)

2C04 12:10 BIODIESEL PRODUCTION FROM ALGAL BIOMASS UNDER DIFFERENT LIGHT SOURCE AND DERIVED TOXICITY OF TAIL GAS

Yu-Tzu Huang (Chung Yuan Christian University, Taiwan)

2C05[†] 12:30 UV PHOTOCHEMICAL ACTIVATION OF SOL-GEL MATERIALS FOR ALL SOLUTION-PROCESSED OXIDE ELECTRONICS

Myung-Han Yoon (Gwangju Institute of Science and Engineering, Republic of Korea)

Oral Session (Room D)

Chairpersons : Anna Gudmundsdottir (University of Cincinnati, USA)
Wei-Yin Sun (Nanjing University, China)
Jin Matsumoto (Miyazaki University, Japan)

2D01 † **PHOTOCHEMISTRY AND FLUORESCENCE PROPERTIES OF
11:10 DENDRIMERS AND HYDROGEN BONDED FUNCTIONALIZED
MOLECULES**

Tatsuo Arai (University of Tsukuba, Japan)

2D02 † **STIMULI-RESPONSIVE AZOBENZENE AGGREGATES WITH
11:30 AGGREGATION-INDUCED EMISSION ENHANCEMENT
CHARACTERISTICS**

Mina Han (Tottori University, Japan)

2D03 † **STEREOSELECTIVE AND HIGHLY EFFICIENT Z,E-
11:50 PHOTOISOMERIZATION OF FLUORESCENT
DIPHENYLHEXATRIENES IN THE SOLID STATE**

Yoriko Sonoda (National Institute of Advanced Industrial Science and Technology, Japan)

2D04 † **MICROHETEROGENEITY OF THE IONIC LIQUIDS AS REVEALED
12:10 BY FLUORESCENCE STUDIES IN THESE MEDIA**

Anunay Samanta (University of Hyderabad, India)

2D05 † **CRAWLING OF AZOBENZENE CRYSTALS ON A GLASS SURFACE
12:30 BY LIGHT IRRADIATION**

Yasuo Norikane (National Institute of Advanced Industrial Science and Technology, Japan)

Oral Session (Room E)

Chairpersons : Yoshinobu Nishimura (University of Tsukuba, Japan)
BongSoo Kim (Ewha Womans University, Republic of Korea)
Yutaka Shibata (Tohoku University, Japan)

2E01 **PHOTO-CONVERSION MATERIALS INVESTIGATED USING FIRST-
11:10 PRINCIPLES CALCULATION AND EXPERIMENT**

Junying Zhang (Beihang University, China)

2E02 **MICROPLASMA-ASSISTED ELECTROCHEMISTRY SYNTHESIS OF NOBLE METAL NANOPARTICLES/GRAPHENE COMPOSITES AS HIGHLY-SENSITIVE SURFACE-ENHANCED RAMAN SCATTERING (SERS)-ACTIVE MATERIALS**

Wei-Hung Chiang (National Taiwan University of Science and Technology, Taiwan)

2E03 **PHOTOCATALYTIC DEGRADATION OF DECABROMODIPHENYL ETHER BY GRAPHENE**

Chunyan Sun (Shaoxing University, China)

2E04 **CRYSTALLINE POLY(HEPTAZINE IMIDE) SALTS: NEW CLASS OF CARBON NITRIDE DERIVATIVES FOR HIGHLY EFFICIENT SOLAR HYDROGEN AND OXYGEN EVOLUTION**

Dariya Dontsova (Max-Planck Institute of Colloids and Interfaces, Germany)

2E05 **DEVELOPMENT AND PHOTOCATALYTIC PERFORMANCE OF Al_2O_3 -BASED PHOTOCATALYSTS**

Fa-tang Li (Hebei University of Science and Technology, China)

PM

Plenary (Room A)

Chairperson : Massimo Olivucci (Università di Siena, Italy)

PL2 **A COHERENT PICTURE OF FEMTOBIOLOGY**

14:00 Richard A. Mathies (University of California, Berkeley, USA)

Oral Session (Room A)

Chairpersons : Hideki Kandori (Nagoya Institute of Technology, Japan)
Masahide Terazima (Kyoto University, Japan)
Kiminori Maeda (Saitama University, Japan)

2A06† **PRIMARY DYNAMICS OF PHOTO-RESPONSIVE PROTEINS PROBED BY FEMTOSECOND ABSORPTION AND RAMAN SPECTROSCOPY**

Satoshi Takeuchi (RIKEN, Japan)

- 2A07†** EXTENDED EXCITED STATE LIFETIMES IN NEW IRON (II) COMPLEXES WITH N-HETEROCYCLIC CARBENE LIGANDS
15:20 Stefan Uwe Haacke (Université de Strasbourg & CNRS, France)
- 2A08†** TWO-DIMENSIONAL CORRELATION SPECTROSCOPY FOR OBSERVATION OF ULTRAFAST DYNAMICS OF BACTERIORHODOPSIN FROM HALOQUADRATUM WALSBYI
15:40 Takayoshi Kobayashi (National Chiao-Tung University, Taiwan)
- 2A09†** ON THE MOLECULAR BASIS OF LIGHT SENSITIVITY: COMPARATIVE QUANTUM CHEMICAL STUDIES OF MICROBIAL, INVERTEBRATE AND VERTEBRATE RHODOPSINS
16:00 Massimo Olivucci (Università di Siena, Italy)
- 2A10†** STRUCTURAL CONSTRAINTS ON RETINAL ISOMERIZATION IN MICROBIAL AND ANIMAL RHODOPSINS
16:20 Tsutomu Kouyama (Nagoya University, Japan)
- 2A11†** MOLECULAR MECHANISMS OF RETINAL PROTEINS WITH INVOLVEMENT OF WATER MOLECULES STUDIED BY LIGHT-INDUCED DIFFERENCE INFRARED SPECTROSCOPY
16:40 Yuji Furutani (Institute for Molecular Science, Japan)
- 2A12†** LIGHT-INDUCED DIFFERENCE FTIR SPECTROSCOPY OF PHOTORECEPTIVE PROTEINS
17:00 Hideki Kandori (Nagoya Institute of Technology, Japan)
- 2A13†** PROTEIN PHOTOREACTION FOR SENSIGN LIGHT INTENSITY
17:20 Masahide Terazima (Kyoto University, Japan)
- 2A14†** PLANT PHOTORECEPTORS SEE THE LIGHT IN THE WAVELENGTH REGION FROM UV-B TO FAR-RED
17:40 Satoru Tokutomi (Osaka Prefecture University, Japan)

Oral Session (Room B)

Chairpersons : Xin Chen Wang (Fuzhou University, China)
Wenzhong Wang (Shanghai Institute of Ceramics, China)
Yasuhiro Shiraishi (Osaka University, Japan)

2B06† PHOTOCATALYTIC WATER SPLITTING BY g-C₃N₄ POLYMERS

15:00 Xin Chen Wang (Fuzhou University, China)

2B07† IN SITU SYNTHESIS OF g-C₃N₄ BASED COMPOSITES WITH ENHANCED UV- AND VISIBLE-LIGHT PHOTOCATALYTIC ACTIVITIES

Yun Hu (South China University of Technology, China)

2B08† SUNLIGHT-DRIVEN HYDROGEN PEROXIDE PRODUCTION FROM WATER AND MOLECULAR OXYGEN BY CARBON NITRIDE-BASED PHOTOCATALYSTS

Yasuhiro Shiraishi (Osaka University, Japan)

2B09 FACET-DEPENDENT PHOTOCATALYTIC ACTIVITY PROPERTIES OF CUPROUS OXIDE NANOCRYSTALS

Michael Hsuan-Yi Huang (National Tsing Hua University, Taiwan)

2B10† SELECTIVE C-N AND C-O COUPLING REACTIONS OVER NIOBIUM OXIDE PHOTOCATALYST

Tetsuya Shishido (Tokyo Metropolitan University, Japan)

2B11 CONTROLLABLE ASSEMBLY OF WELL-DEFINED MONODISPERSE Au NANOPARTICLES ON HIERARCHICAL ZnO MICROSPHERES FOR ENHANCED VISIBLE-LIGHT-DRIVEN PHOTOCATALYTIC AND ANTIBACTERIAL ACTIVITY

Xia Tao (Beijing University of Chemical Technology, China)

2B12 SIMPLE SOLUTION PHASE SYNTHESIS OF NOVEL Zn_xCd_{1-x}S NANOSTRUCTURE MATERIALS AND ITS PHOTOCATALYTIC PROPERTIES

Rengaraj Selvaraj (Sultan Qaboos University, Oman)

2B13[†] IMPROVING INTERFACE ELECTRON TRANSFER BETWEEN
17:20 PHOTOELECTRODES AND CO-CATALYSTS IN
NANOSTRUCTURED PHOTOELECTROCHEMICAL CELLS

Yixin Zhao (Shanghai Jiao Tong University, China)

2B14[†] SOLAR LIGHT DRIVEN SELECTIVE METHANOL PRODUCTION VIA
17:40 ARTIFICIAL PHOTOSYNTHESIS

Young Soo Kang (Sogang University, Republic of Korea)

Oral Session (Room C)

Chairpersons : Soo Wahn Lee (Sun Moon University, Republic of Korea)
Jiann T'suen Lin (Academia Sinica, Taiwan)
Takahiko Kojima (University of Tsukuba, Japan)

2C06 THE PHOTOPHYSICAL BEHAVIOUR OF FLUORENE BASED
15:00 CONJUGATED POLYELECTROLYTES ENCAPSULATED IN
POLY(VINYL ALCOHOL) BURRITO-TYPE STRUCTURES

Hugh D. Burrows (University of Coimbra, Portugal)

2C07 PRECIPITATION OF ORGANIC MOLECULES IN A 3D FOCUSING
15:20 MICROSYSTEM COUPLED WITH IN-SITU FLUORESCENCE LIFETIME
IMAGING MICROSCOPY AND X-RAYS ANALYSIS

Robert Bernard Pansu (PPSM- IDA, ENS-Cachan, France)

2C08 ULTRASMALL FAR-RED EMITTING POLYMER DOTS: STRUCTURES
15:40 AND PHOTOPHYSICS

Satoshi Habuchi (King Abdullah University of Science and
Technology, Saudi Arabia)

2C09 CALIXARENE-BASED FLUORESCENT SENSORS FOR THE
16:00 DETECTION OF ALKALI CATION

Isabelle Leray (ENS Cachan, Université Paris Saclay, France)

2C10 INCREASING ELECTRON TRANSFER RATES WITH INCREASING
16:20 DONOR-ACCEPTOR DISTANCE

Oliver S. Wenger (University of Basel, Switzerland)

**2C11 ANISOTROPIC LUMINESCENT NANO-RIBBONS, -FIBERS AND
16:40 -RODS AND PHOTO-PATTERNING OF INDIVIDUAL OBJECTS**

André Del Guerzo (Université de Bordeaux, France)

**2C12[†] APPLICATIONS OF PHOTOCHEMISTRY FOR THERMAL STABLE
17:00 POLYMERS**

Seung Woo Lee (Yeungnam University, Republic of Korea)

**2C13 RADIATION INDUCED SYNTHESIS OF DEXTRAN NANOGELS
17:20 UNDER SEVERAL KINDS OF IRRADIATION CONDITIONS**

Byungham Kim (Korea Atomic Energy Research Institute, Republic of Korea)

Young Session (Oral) (Room C)

Chairpersons : Soo Wahn Lee (Sun Moon University, Republic of Korea)

Jiann T'suen Lin (Academia Sinica, Taiwan)

Takahiko Kojima (University of Tsukuba, Japan)

**2CY1 UNDERSTANDING PHOTOCATALYTIC ACTIVITY AT THE
17:40 NANOSCALE USING CORRELATED ELECTRON AND
FLUORESCENCE MICROSCOPY**

Elke Debroye (KU Leuven, Belgium)

**2CY2 PHOTOCATALYTIC PROPERTY OF TiO₂-MODIFIED
17:55 HYDROXYAPATITE SYNTHESIZED BY HYDROTHERMAL METHOD**

Tomoyo Goto (Osaka University, Japan)

Oral Session (Room D)

Chairpersons : Chen-Ho Tung (Technical Institute of Physics and Chemistry,
CAS, China)

Tatsuo Arai (University of Tsukuba, Japan)

Takashi Hirano (The University of Electro-Communications,
Japan)

**2D06[†] RECENT PROGRESS ON FLUORESCENT PROBES AND ACTIVABLE
15:00 PHOTSENSITIZER**

Juyoung Yoon (Ewha Womans University, Republic of Korea)

- 2D07** **NOVEL FLUORESCENCE DOMAIN “EXCITED MULTIMER” FORMED UPON PHOTOEXCITATION OF CONTINUOUSLY-STACKED DIAROYL METHANATOBORON DIFLUORIDE MOLECULES**
15:20 Hiroshi Ikeda (Osaka Prefecture University, Japan)
- 2D08** **DESIGN OF HETEROCYCLIC FLUOROPHORES BASED ON A BIOLUMINESCENCE LIGHT-EMITTER**
15:40 Takashi Hirano (The University of Electro-Communications, Japan)
- 2D09** **FLAVINS AS PHOTSENSITIZERS OF SINGLET OXYGEN**
16:00 Marek Sikorski (Adam Mickiewicz University, Poland)
- 2D10†** **MOLECULAR DYADS CAN PHOTSENSITIZE AND DETECT BIOLOGICAL SINGLET OXYGEN**
16:20 Youngmin You (Ewha Womans University, Republic of Korea)
- 2D11** **RUTHENIUM NITROSYL COMPLEXES: TOWARDS NITRIC OXIDE (NO) RELEASE INDUCED BY TWO-PHOTON ABSORPTION**
16:40 Isabelle Sasaki (Laboratoire de Chimie de Coordination, France)
- 2D12†** **PHOTOREACTIVITY OF DIAZIDES IN SOLUTION, CRYOGENIC MATRICES AND CRYSTALS**
17:00 Anna D. Gudmundsdottir (University of Cincinnati, USA)
- 2D13** **BETANIN PHOTOOXIDATION AND PHOTOISOMERIZATION**
17:20 Gotard Burdzinski (Adam Mickiewicz University, Poland)
- 2D14** **FULL CONTROL OF PRIMARY PROCESSES FOR HIGH PERFORMANCE PHOTOINITIATING SYSTEMS USABLE FOR HOLOGRAPHIC RECORDING**
17:40 Ahmad Ibrahim (University of Haute Alsace, France)

Young Session (Oral) (Room E)

Chairpersons : Victor Fedorovich Plyusnin (Institute of Chemical Kinetics and Combustion SB RAS, Russia)

Hiroko Yamada (Nara Institute of Science and Technology, Japan)

Henrik Ottosson (Uppsala University, Sweden)

Minoru Yamaji (Gunma University, Japan)

**2EY06 DIVERSE PROTON COUPLED ELECTRON TRANSFER MECHANISM
15:00 IN PHOTOCATALYTIC HYDROGENATION ON TiO₂**

Wenjing Song (Chinese Academy of Sciences, China)

**2EY07 WIDEBAND DYE-SENSITIZED SOLAR CELLS EMPLOYING
15:15 SINGLET-TRIPLET TRANSITIONS**

Takumi Kinoshita (The University of Tokyo, Japan)

**2EY08 SWITCHING OF CIRCULARLY POLARIZED LUMINESCENCE WITH
15:30 LIGHT**

Takuya Nakashima (Nara Institute of Science and Technology, Japan)

**2EY09 LIGHT-DRIVEN ACTUATORS OF PHOTOCROMIC
15:45 DIARYLETHENE CRYSTALS**

Daichi Kitagawa (Osaka City University, Japan)

**2EY10 SOLID-STATE POLYMERIZATION IN POLYDIACETYLENE
16:00 NANOCRYSTALS AND THEIR NONLINEAR OPTICAL PROPERTIES**

Tsunenobu Onodera (Tohoku University, Japan)

**2EY11 CHEMICAL PROCESSES OF SINGLE NANOPARTICLES STUDIED
16:15 BY SURFACE PLASMON RESONANCE MICROSCOPY**

Wei Wang (Nanjing University, China)

**2EY12 FACET EFFECT OF TITANIA NANOPARTICLES ON INTERFACIAL
16:30 ELECTRON TRANSFER AND APPLICATIONS TO PRINTABLE SOLAR CELLS**

Masato Maitani (Tokyo Institute of Technology, Japan)

- 2EY13** PHOTO-INDUCED CONTROLLABLE SYNTHESIS OF
16:45 HIERARCHICAL MnO₂ NANOSTRUCTURES
Lei Huang (Shanghai University, China)
- 2EY14** METAL-ORGANIC FRAMEWORKS AS PLATFORMS FOR
17:00 DESIGNING VISIBLE-LIGHT-RESPONSIVE PHOTOCATALYSTS
Yu Horiuchi (Osaka Prefecture University, Japan)
- 2EY15** PHOTOCATALYTIC AND PHOTOELECTROCHEMICAL SOLAR
17:15 WATER SPLITTING USING METAL SULFIDE MATERIALS
Akihide Iwase (Tokyo University of Science, Japan)
- 2EY16** CIRCULARLY POLARIZED LUMINESCENCE IN ORGANIC/
17:30 INORGANIC MOLECULES AND AGGREGATES
Jatish Kumar (Nara Institute of Science and Technology, Japan)
- 2EY17** PHOTOCHEMICAL PROPERTIES OF DNA DUPLEXES WITH
17:45 STACKED PERYLENE-DIIMIDE DERIVATIVES
Tadao Takada (University of Hyogo, Japan)

Poster Session (Room C)

18:10~19:40

- 2P01** PHOTOCROMISM OF *o*-NITRO-METHYL-BENZAZOLES
Alexander Ivanovich Ponyaev (Saint-Petersburg State Institute of
Technology, Russia)
- 2P02** PHOTOCHEMICAL REACTION AT AN ORGANIC-AQUEOUS
INTERFACE: REDUCTION OF FLAVONE BY NaBH₄ USING A
LASER MICROREACTOR
Akihiko Ouchi (Nihon University, Japan)
- 2P03** RADIATIONLESS RELAXATION VIA RING OPENING IN
PHTHALIDE
Micał Filip Rode (Polish Academy of Sciences, Poland)

- 2P04 REVERSAL OF HÜCKEL (ANTI)AROMATICITY IN THE EXCITED-STATES OF HEXAPHYRINS**
Young Mo Sung (Yonsei University, Republic of Korea)
- 2P05 SYNTHESIS, FLUORESCENCE, AND PHOTOREACTIONS OF STILBENE DERIVATIVES CONTAINING SILYL GROUPS**
Hajime Maeda (Kanazawa University, Japan)
- 2P06 SYNTHESIS OF A MOLECULAR RATCHET FOR RING SHUTTLING CONSISTING OF OPTICALLY AND THERMALLY RESPONSIVE [2] ROTAXANE**
Keiji Hirose (Osaka University, Japan)
- 2P07 MITOCHONDRIA-TARGETING NITRIC OXIDE RELEASERS CONTROLLABLE WITH VISIBLE LIGHT AND MODULATION OF MITOCHONDRIAL DYNAMICS**
Mitsuyasu Kawaguchi (Nagoya City University, Japan)
- 2P08 UNIQUE PHOTOACTIVE NANOCOMPOSITES BASED ON RHODAMINE 6G/POLYMER/MONTMORILLONITE HYBRID SYSTEMS**
Adriana Czímerová (Institute of Inorganic Chemistry Slovak Academy of Science, Slovakia)
- 2P09 PHOTOCROMISM AND FLUORESCENCE PROPERTIES OF DIARYLETHENES WITH PYRENE UNITS**
Taeko Inada (Kitasato University, Japan)
- 2P10 PHOTOINDUCED HYDROGEN EVOLUTION IN AQUEOUS SOLUTION CATALYZED BY A SYNTHETIC DIIRON HYDROGENASE MIMIC EMBEDDED WITHIN A PAMAM DENDRIMER MATRIX**
Tianjun Yu (Chinese Academy of Sciences, China)
- 2P11 WATER-SOLUBLE CARBOXYLATED POLYFLUORENES: SYNTHESIS AND PHOTOLUMINESCENT QUENCHING BY CUPRIC AND CUPROUS IONS**
Yun Chen (National Cheng Kung University, Taiwan)

- 2P12 PHOTO- AND THERMAL RESPONSIVE POLYMERIC MICELLES: PREPARATION, CHARACTERIZATION, AND CONTROLLED DRUG RELEASE**
Wen-Chung Wu (National Cheng Kung University, Taiwan)
- 2P13 ABSORPTION AND RAMAN SPECTROSCOPY OF THERMOELECTRIC CARBON NANOTUBE-POLYELECTROLYTE COMPOSITES**
Yoshiyuki Nonoguchi (Nara Institute of Science and Technology, Japan)
- 2P14 LUMINESCENT ZINC (II) AND COPPER (I) COMPLEXES FOR HIGH-PERFORMANCE SOLUTION-PROCESSED MONOCHROMIC AND WHITE ORGANIC LIGHT-EMITTING DEVICES**
Gang Cheng (The University of Hong Kong, China)
- 2P15 PHOTOCATALYTIC CO₂ REDUCTION OF RHENIUM/RUTHENIUM INTEGRATED MESOPOROUS ORGANOSILICA**
Minoru Waki (Toyota Central R&D Labs., Inc., Japan)
- 2P16 CONSTRUCTION AND PHOTOELECTRIC PROPERTY OF DNA ASSISTED CHROMOPHORE AGGREGATES**
Mitsunobu Nakamura (University of Hyogo, Japan)
- 2P17 STRUCTURAL CHANGE OF GUANINE RADICAL CATION FORMED UPON ONE-ELECTRON OXIDATION**
Jungkweon Choi (Institute for Basic Science, Republic of Korea)
- 2P18 PHOTOPHYSICS AND PHOTOCHEMISTRY OF THIO-SUBSTITUTED NUCLEIC ACID BASES AND NUCLEOSIDES**
Tadashi Suzuki (Aoyama Gakuin University, Japan)
- 2P19 DEVELOPMENT OF A CAGED HDAC INHIBITOR UTILIZING 7-DIETHYLAMINOCOUMARIN-TYPE PHOTOLABILE CAGING GROUP**
Hidehiko Nakagawa (Nagoya City University, Japan)

- 2P20 SENSITIVE IMMUNOSENSOR WITH A PLASMONIC CHIP PROVIDING THE ENHANCED FLUORESCENCE**
Keiko Tawa (Kwansei Gakuin University, Japan)
- 2P21 RED FLUORESCENT CARBAZOLE-BASED SEMICONDUCTING POLYMER DOTS WITH ULTRA-SMALL SIZE AND HIGH BRIGHTNESS**
Hubert Marek Piwoński (King Abdullah University of Science and Technology, Saudi Arabia)
- 2P22 LUMINESCENCE ENHANCEMENT OF CADMIUM SERENIDE NANOCRYSTALS BY PHOTOCHEMICAL ELECTRONIC DOPING**
Naoki Kakimoto (Kwansei Gakuin University, Japan)
- 2P23 IONIC LIQUIDS IN PHOTON HARVESTING**
Karina Shimizu (Universidade de Lisboa, Portugal)
- 2P24 SYNTHESIS AND CHARACTERIZATION OF TiO₂ NANOTUBES BY MICROWAVE ASSISTED HYDROTHERMAL METHOD: AN EFFECT OF PROCESS PARAMETERS ON NANOSTRUCTURES FORMATION**
SungHun Cho (Osaka University, Japan)
- 2P25 NATURAL GRAPE POLYPHENOLS FOR PREPARING SPHERICAL Co₃O₄ NANOAGGREGATES AS HETEROGENEOUS CATALYSTS FOR CATALYTIC OXIDATION OF ORANGE II WITH SULFATE RADICALS**
Penghui Shi (Shanghai University of Electric Power, China)
- 2P26 INVERSE KINETIC SOLVENT ISOTOPE EFFECT IN TiO₂ PHOTOCATALYTIC DEHALOGENATION OF NON-ADSORBABLE AROMATIC HALIDES: A PROTON-INDUCED PATHWAY**
Wanhong Ma (Chinese Academy of Sciences, China)
- 2P27 H₂O-INVOLVED TWO-ELECTRON PATHWAY FOR PHOTOOXIDATION OF ALDEHYDES ON TiO₂: AN ISOTOPE LABELING STUDY**
Ran Duan (Chinese Academy of Sciences, China)

- 2P28** PROPOSED SINGLE STEP TWO-ELECTRON REDUCTION OF PRONTON REDUCTION MOLECULAR CATALYST IN CoPy/CdS PHOTOCATALYTIC SYSTEM
Yu Xing Xu (Chinese Academy of Sciences, China)
- 2P29** HIGHLY SENSITIVE ELECTROCHEMICAL DETERMINATION OF SUNSET YELLOW BASED ON GOLD NANOPARTICLES/ GRAPHENE ELECTRODE
Jin Wang (Soochow University, China)
- 2P30** FAST PHOTOCROMIC PROPERTIES OF PABI CRYSTALS
Jun Komiya (Waseda University, Japan)
- 2P31** TWO CHARGE-TRANSFER STRATEGIES FOR TURNING ON NON-FLUORESCENT COUMARIN
Byung Hak Jhun (Ewha Womans University, Republic of Korea)
- 2P32** SYNTHESIS OF HIGHLY BENT PORPHYRINS(2.1.2.1) AND THEIR METAL COMPLEXES
Wataru Furukawa (Nara Institute of Science and Technology, Japan)
- 2P33** LUMINESCENT PROPERTIES OF TRIS-CYCLOMETALATED IRIIDIUM (III) COMPLEXES BASED ON 2-PHENYL-1H-IMIDAZOLATE LIGANDS
Kazuya Ishiguro (Osaka Prefecture University, Japan)
- 2P34** REALIZATION OF THREE-DIMENSIONAL AROMATICITY IN BRIDGED CORE-MODIFIED [34]OCTAPHYRIN
Wonyoung Cha (Yonsei University, Republic of Korea)
- 2P35** LUMINESCENT N-HETEROCYCLIC CARBENE COMPLEXES OF SILVER (I) AND GOLD (I). METALLOPHILIC, HYDROGEN BONDING, AND LIQUID CRYSTAL PROPERTIES
Jheng-Hao Syu (National Dong Hwa University, Taiwan)
- 2P36** CORRELATION BETWEEN ANTIOXIDANT AND EXCITED-STATE INTRAMOLECULAR-PROTON-TRANSFER ACTIVITIES IN ANTHOCYANIDINS AND HYDROXYANTHRAQUINONES
Yuki Bandoh (Ehime University, Japan)

- 2P37 TUNING THE OPTICAL PROPERTIES OF HETEROLEPTIC IRIIDIUM COMPLEXES: A JOINT THEORETICAL STUDY**
Sunesh Chozhidakath Damodharan (Pusan National University, Republic of Korea)
- 2P39 EXCITON DYNAMICS OF THE HYBRID SYSTEM OF 1,10-PHENANTHROLINE ATTACHED BISTHIENYLETHENE AND CdTe QUANTUM DOTS**
Ken Kinoshita (Kwansei Gakuin University, Japan)
- 2P40 PHOTOMECHANICAL BENDING WITH TWISTING OF CHIRAL AZOBENZENE CRYSTALS**
Takuya Taniguchi (Waseda University, Japan)
- 2P41 PHOTOCHEMICAL STUDY OF FLUORESCENT LABELLED DENDRIMERS**
Valentina Paolucci (University of Copenhagen, Denmark)
- 2P42 Withdrawn**
- 2P43 COUPLED CHROMOPHORES FOR STUDYING ENERGY TRANSFER**
Nina Astrid Schopf (Universität Würzburg, Germany)
- 2P44 SYNTHESIS OF SPIN-COATING AND EXHIBITED p-CHANNEL ORGANIC THIN FILM TRANSISTORS**
Yeonhee Ha (Gyeongsang National University, Republic of Korea)
- 2P45 PROPERTIES OF THE ORGANIC THIN FILM TRANSISTOR ACCORDING TO AN RANDOM COPOLYMER**
Min Jae Sung (Gyeongsang National University, Republic of Korea)
- 2P46 DEVICE STRUCTURES AND MATERIALS USED FOR ORGANIC LIGHT EMITTING DEVICES (OLEDs)**
Sang Bong Lee (Gyeongsang National University, Republic of Korea)

- 2P47** **Withdrawn**
- 2P48** **CAGED COMPOUNDS FOR BIOTECHNOLOGICAL APPLICATIONS**
Claus Bier (Heinrich-Heine-University, Germany)
- 2P49** **Withdrawn**
- 2P50** **DESIGN AND SYNTHESIS OF A ETHYLENE GLYCOL TETRAACETICACID (EGTA) DERIVATIVE FOR NEW GENERATION OF CAGED CALCIUM COMPOUNDS WITH TWO-PHOTON ABSORPTION (TPA) PROPERTY, AND IT'S APPLICATIONS IN VIVO**
Satish Jakkampudi (Hiroshima University, Japan)
- 2P51** **CHARACTERIZATION OF PHOTOCARRIER TRANSFER IN LIQUID-SOLID HYBRID NANOSTRUCTURES**
Hunging Chen (Chang Gung University, Taiwan)
- 2P52** **ANISOTROPIC COULOMB EXPLOSION OF CARBONYL LIGANDS IN GROUP VI METAL CARBONYL COMPLEXES**
Hiroki Tanaka (Osaka City University, Japan)
- 2P53** **THE EFFECT OF DIFFERENT SIDE CHAIN OF FLUORENE DERIVATIVES POLY ELECTROLYTE AS WORK FUNCTION MODIFIER IN THE ORGANIC PHOTOVOLTAICS**
JongJun Ahn (Pusan National University, Republic of Korea)
- 2P54** **LOW-TEMPERATURE CURABLE POLYMERS AS A GATE DIELECTRIC FOR ORGANIC THIN-FILM TRANSISTORS APPLICATIONS**
Jong-Woon Ha (Pusan National University, Republic of Korea)
- 2P55** **TiO₂ ASSISTED Pt-BASED COMPOSITE CATALYSTS FOR THE PHOTO-ELECTROCATALYTIC OXIDATION OF METHANOL**
Caiqin Wang (Soochow University, China)

- 2P56 FABRICATING RUTILE-ANATASE TiO₂ JUNCTION TOWARDS ENHANCED CHARGE SEPARATION AND PHOTOELECTROCHEMICAL WATER SPLITTING**
Ailong Li (Dalian Institute of Chemical Physics, CAS, China)
- 2P57 DESIGN OF PLASMONIC Au NPs FOR PHOTOCATALYTIC REACTIONS**
Ji Eun Lee (Inha University, Republic of Korea)
- 2P58 HARVESTING OF EARTH ABUNDANT SOLAR-LIGHT SPECTRUM FOR PHOTODEGRADATION OF DYE**
Chhabilal Regmi (Sun Moon University, Republic of Korea)
- 2P59 ULTRATHIN SnNb₂O₆ 2D NANOSHEETS: A NEW PHOTOCATALYST FOR PHOTOCATALYTIC REDUCTION OF CO₂ WITH H₂O TO CH₄ UNDER VISIBLE LIGHT IRRADIATION**
Shuying Zhu (Fuzhou University, China)
- 2P60 CRYSTAL-FACE-DEPENDENT CHARGE DYNAMICS ON A BiVO₄ PHOTOCATALYST STUDIED BY SINGLE-PARTICLE PHOTOELECTROCHEMISTRY**
Tomoya Ochi (Kobe University, Japan)
- 2P61 AN ARTIFICIAL PHOTOSYNTHETIC SYSTEM CONTAINING AN INORGANIC SEMICONDUCTOR AND A MOLECULAR CATALYST FOR PHOTOELECTROCHEMICAL WATER OXIDATION**
Sheng Ye (Dalian Institute of Chemical Physics, China)
- 2P62 Withdrawn**
- 2P63 Ru-ASSISTED SYNTHESIS OF Pd/Ru NANODENDRITES WITH HIGH ACTIVITY FOR ETHANOL ELECTROOXIDATION**
Ke Zhang (Soochow University, China)

Wednesday, April 6

AM

Plenary (Room A)

Chairperson : Dipankar Sen (Simon Fraser University, Canada)

PL3 **TIME RESOLVED IR AND CRYSTALLOGRAPHIC STUDIES OF DNA** **10:00** **PHOTODAMAGE AND REPAIR**

Thomas Carell (Ludwig-Maximilians University, Germany)

Plenary (Room A)

Chairperson : Wolter F. Jager (Delft University of Technology, The Netherlands)

PL4 **MECHANISTIC INSIGHTS FROM SUPRAMOLECULAR DYNAMIC** **10:50** **STUDIES ON THE BINDING OF GUESTS WITH CUCURBIT[n]URILS**

Cornelia Bohne (University of Victoria, Canada)

Oral Session (Room A)

Chairpersons : Jungkweon Choi (Institute for Basic Science, Republic of Korea)

Junying Zhang (Beihang University, China)

3A01 **SPIN-SORTED PHOTOELECTRON TRANSFER OF** **11:50** **TRIPHENYLAMINE-(PLATINUM COMPLEX)-NAPHTHALIMIDE** **TRIADS**

Keiji Okada (Osaka City University, Japan)

3A02 **sp³-LINKED DONOR-ACCEPTOR SYSTEMS AS A VERSATILE** **12:10** **PLATFORM FOR LONG-LIVED CHARGE SEPARATION IN THE** **TRIPLET STATE**

Jerzy Karpiuk (Polish Academy of Sciences, Poland)

3A03 **ULTRAFAST ABSORPTION SPECTROSCOPY OF PHOTO-** **12:30** **SWITCHABLE FLUORESCENT PROTEINS**

Michel Sliwa (University of Lille, France)

3A04 MECHANISM OF MAGNETIC FIELD EFFECT ON SINGLET FISSION
12:50 Tomoaki Yago (Saitama University, Japan)

Oral Session (Room B)

Chairpersons : Shigeru Yamago (Kyoto University, Japan)
Tae-Dong Kim (Hannam University, Republic of Korea)

3B01 † DESIGNING SUPRAMOLECULAR POLYMER WITH REMARKABLE
11:50 **FLUORESCENCE MODULATION IN WATER**
Soo Young Park (Seoul National University, Republic of Korea)

3B02 LIGHT- AND PROTON-REGULATED ION TRANSPORT IN
12:10 **ARTIFICIAL NANOCHANNELS AND THEIR APPLICATION IN**
PHOTOELECTROCHEMICAL CELLS
Zhaoyue Liu (Beihang University, China)

3B03 † DEVELOPMENT OF PRINTED AMBIPOLAR ORGANIC FIELD-
12:30 **EFFECT TRANSISTORS AND COMPLEMENTARY INTEGRATED**
CIRCUITS
Yong Young Noh (Dongguk University, Republic of Korea)

3B04 † DUAL ELECTRON TRANSFER PATHWAYS FROM THE EXCITED C₆₀
12:50 **RADICAL ANION: ENHANCED REACTIVITIES DUE TO**
PHOTOEXCITATION OF REACTION INTERMEDIATES
Mamoru Fujitsuka (Osaka University, Japan)

Oral Session (Room C)

Chairpersons : Jinlong Zhang (East China University of Science and
Technology, China)
Kohsuke Mori (Osaka University, Japan)

3C01 MATERIALS TUNING OF TITANIA NANOTUBES FOR VISIBLE-
11:50 **LIGHT RESPONSIBLE PHOTOCHEMICAL FUNCTION**
Tohru Sekino (Osaka University, Japan)

3C02[†] **CONTROL OF MESOSCOPIC TiO₂ LAYERS FOR PEROVSKITE SOLAR CELLS**

12:10

Wan In Lee (Inha University, Republic of Korea)

3C03[†] **MICRO-/NANO-PATTERNINGS OF SOLUTION-PROCESSABLE ORGANIC SEMICONDUCTORS FOR HIGH PERFORMANCE ORGANIC THIN FILM TRANSISTORS**

12:30

Se Hyun Kim (Yeungnam University, Republic of Korea)

3C04 **GLASSY PHOTONIC INKS ENCAPSULATED IN CORE-SHELL MICROCAPSULES FOR LOCAL ELECTRIC FIELD SENSORS**

12:50

Youngjong Kang (Hanyang University, Republic of Korea)

Oral Session (Room D)

Chairpersons : Masahide Yasuda (University of Miyazaki, Japan)

Dae Won Cho (Korea University, Republic of Korea)

3D01 **PALLADIUM-PORPHYRIN OLIGOMERS SENSITIZED GREEN-TO-BLUE PHOTON UPCONVERSION: THE MORE THE BETTER?**

11:50

Yi Li (Chinese Academy of Sciences, China)

3D02 **ONE-POT SYNTHESIS AND PHOTOELECTRONIC PROPERTIES OF TiO₂ NANOPARTICLES ENCAPSULATING LIQUID CRYSTALLINE PHTHALOCYANINE**

12:10

Yo Shimizu (National Institute of Advanced Industrial Science and Technology, Japan)

3D03 **CYTOTOXICITY AND PROTEIN DAMAGE PHOTOSENSITIZED BY PHOSPHORUS (V) PORPHYRIN DERIVATIVES VIA ELECTRON TRANSFER**

12:30

Kazutaka Hirakawa (Shizuoka University, Japan)

3D04 **SYNTHESIS AND SPECTROSCOPIC PROPERTIES OF PHOSPHOROUS HYDROPORPHYRIN COMPLEX WITH LONG-WAVELENGTH ABSORPTION BANDS**

12:50

Jin Matsumoto (University of Miyazaki, Japan)

Young Session (Oral) (Room E)

Chairpersons : Yoshito Tobe (Osaka University, Japan)

David García-Fresnadillo (Complutense University, Spain)

3EY01 **EXCITED-STATE PROTON TRANSFERS TO WATER, ALCOHOL,
11:50 AND AMIDE HYDROGEN-BONDED CLUSTERS IN CONDENSED
PHASE**

Oh-Hoon Kwon (Ulsan National Institute of Science and Technology,
Republic of Korea)

3EY02 **“EXCITED STATE C–C BOND CLEAVAGE–LUMINESCENCE” OF
12:05 METHYLENOCYCLOPROPANES AND RELATED THEORETICAL
CALCULATIONS**

Yasunori Matsui (Osaka Prefecture University, Japan)

3EY03 **COMPLETE HYDROGEN RELEASE FROM AQUEOUS AMMONIA-
12:20 BORANE OVER PLATINUM-LOADED TITANIUM DIOXIDE
PHOTOCATALYST**

Takashi Kamegawa (Osaka Prefecture University, Japan)

3EY04 **ULTIMATE STEREOCONTROL OF ANTHRACENECARBOXYLATE
12:35 PHOTOCYCLODIMERIZATION ON A GLUCOSE SCAFFOLD
ACHIEVED BY EXCITED-STATE DYNAMICS**

Gaku Fukuhara (Osaka University, Japan)

3EY05 **LIGHT STIMULATED CARRIER DYNAMICS OF CuInS_2 AND
12:50 $\text{CuInS}_2/\text{CdS}$ NANOCRYSTALS**

Masanori Sakamoto (Kyoto University, Japan)

3EY06 **PRECISE CONTROL OF PEROVSKITE-LAYERED MORPHOLOGY
13:05 AND COMPOSITION VIA SEQUENTIAL DEPOSITION
CRYSTALLIZATION PROCESS TOWARDS IMPROVED PEROVSKITE
SOLAR CELLS**

Yan-Zhen Zheng (Beijing University of Chemical Technology, China)

Thursday, April 7

AM

Plenary (Room A)

Chairperson : Atsuhiko Osuka (Kyoto University, Japan)

PL5 **EXCITED STATE ENERGY DELOCALIZATION IN SYNTHETIC 10:00** **PORPHYRIN NANORINGS**

Harry L. Anderson (Oxford University, United Kingdom)

Invited (Room A)

Chairperson : Mamoru Fujitsuka (Osaka University, Japan)

IL8 **HIERARCHICAL ASSEMBLY OF PHOTOCATALYSTS WITH HIGHT 11:00** **ACTIVITIES IN ENVIRONMENTAL CLEANING**

Hexing Li (Shanghai University of Electric Power, China)

Oral Session (Room A)

Chairpersons : Taicheng An (Guangzhou Institute of Geochemistry, CAS,
China)

Michael Hsuan-Yi Huang (National Tsing Hua University, Taiwan)

4A02 **ENHANCED PHOTOCHEMICAL EVENTS IN ORGANIC DYE 11:30** **FILMS BY USING PLASMONIC SILVER NANOPARTICLES**

Sunao Yamada (Kyushu University, Japan)

4A03 **OPTICAL BEHAVIORS OF IMPRINTED PHOTONIC FILMS VIA 11:50** **MUTIPLE UV-EXPOSED FABRICATIONS**

Jui-Hsiang Liu (National Cheng Kung University, Taiwan)

4A04 **SENSITISED Ln (III) EMISSION AND EXCITED-STATE DYNAMICS 12:10** **OF COFACIAL 'PACMAN' PORPHYRIN TERPYRIDINE COMPLEXES**

Evan G. Moore (The University of Queensland, Australia)

4A05 **PHOTOPHYSICS AND APPLICATIONS OF LUMINESCENT
12:30** **RHENIUM (I) COMPLEXES WITH CYANIDE, ISOCYANOBORATE
AND CARBENE LIGANDS**

Chi-Chiu Ko (City University of Hong Kong, China)

Oral Session (Room B)

Chairpersons : Yukihiro Ozaki (Kwansei Gakuin University, Japan)
Yasushi Yokoyama (Yokohama National University, Japan)
Wei Wang (Nanjing University, China)

4B01 **RAPID THERMAL BACK REACTION OF NEGATIVE
11:10** **PHOTOCHROMISM**

Jiro Abe (Aoyama Gakuin University, Japan)

4B02† **COUPLED PLASMONICS IN PHOTOCHEMICAL AND
11:30** **PHOTOPHYSICAL APPLICATIONS**

Dong Ha Kim (Ewha Womans University, Republic of Korea)

4B03 **PHOTOSENSITIZING PROPERTIES OF THIOLATE-PROTECTED
11:50** **GOLD NANOCCLUSERS: INSIGHTS FROM THEORY**

Aurélie Perrier (PSL Research University, CNRS, France)

4B04 **ELUCIDATION OF THE TERMINATION MECHANISM OF RADICAL
12:10** **POLYMERIZATION BY PHOTOLYSIS OF TELLURIUM-TERMINATED
LIVING POLYMERS**

Shigeru Yamago (Kyoto University, Japan)

4B05 **ANISOTROPIC METAL/POLYMER NANOPARTICLES PREPARED
12:30** **BY OPTICAL NEAR FIELD PHOTOPOLYMERIZATION**

Olivier Soppera (Université de Haute-Alsace, France)

Invited (Room C)

Chairperson : Yasuyuki Araki (Tohoku University, Japan)

IL9 **CONTROL OF MORPHOLOGY AND CRYSTALLINITY AND
11:00** **MECHANISTIC UNDERSTANDING FOR HIGHLY EFFICIENT
PEROVSKITE SOLAR CELLS**

Eric Wei-Guang Diao (National Chiao Tung University, Taiwan)

Oral Session (Room C)

Chairpersons : Chen Sheng Yeh (National Cheng Kung University, Taiwan)
Yi Li (Technical Institute of Physics and Chemistry, China)
Kei Ohkubo (Osaka University, Japan)

4C02 **PHOTOCHEMICAL KINETICS AND MECHANISMS IN SOLID
11:30** **STATE H-TRANSFER REACTIONS USING LASER FLASH
PHOTOLYSIS WITH NANOCRYSTALLINE SUSPENSIONS**

Miguel Angel García-Garibay (University of California, LA, USA)

4C03 **PHOTOCATALYTIC ACTIVATION OF INERT BONDS FOR CROSS-
11:50** **COUPLING REACTIONS**

Chen-Ho Tung (Chinese Academy of Sciences, China)

4C04 **RADIOLYTIC OXIDATION OF SELECTED METHIONINE
12:10** **DERIVATIVES. FROM REACTIVE INTERMEDIATES TO STABLE
PRODUCTS**

Tomasz Pedzinski (Adam Mickiewicz University, Poland)

4C05 **RECENT INSIGHTS INTO THE PHOTOCHEMISTRY OF TETRAZOLES**

12:30 Maria L. S. Cristiano (University of Algarve, Portugal)

Oral Session (Room D)

Chairpersons : Yoshio Hisaeda (Kyushu University, Japan)
Anunay Samanta (University of Hyderabad, India)
Gaku Fukuhara (Osaka University, Japan)

4D01 † **ARTIFICIAL ENZYMES COMPOSED OF PHOTOSENSITIZER AND
11:10** **VITAMIN B₁₂ DERIVATIVE**

Yoshio Hisaeda (Kyushu University, Japan)

- 4D02† HSA (HUMAN SERUM ALBUMIN)-ASSISTED
11:30 PHOTOINACTIVATION OF S. CEREVISIAE BY AXIALLY
PYRIDINIO-BONDED P-PORPHYRINS**
Masahide Yasuda (University of Miyazaki, Japan)
- 4D03† PHOTOCATALYTIC WATER SPLITTING WITH HYBRID MOLECULAR
11:50 SYSTEMS**
Ken Sakai (Kyushu University, Japan)
- 4D04† VISIBLE LIGHT PROMOTED REDUCTIVE TRANSFORMATION OF
12:10 VARIOUS ORGANIC FUNCTIONAL GROUPS BY USING
HYDROXYARYL SUBSTITUTED BENZIMIDAZOLINE DERIVATIVES**
Eietsu Hasegawa (Niigata University, Japan)
- 4D05† COVALENTLY-ATTACHED PORPHYCENE-FERROCENE DYADS:
12:30 SYNTHESIS, REDOX-SWITCHED EMISSION, AND CHARGE-
SEPARATED EXCITED STATE**
Masaaki Abe (University of Hyogo, Japan)

Young Session (Oral) (Room E)

Chairpersons : Kazuhiko Mizuno (Nara Institute of Science and Technology,
Japan)

Kazushige Yamana (University of Hyogo, Japan)

Masaaki Abe (University of Hyogo, Japan)

- 4EY01 SYNTHESIS OF HOLLOW SILICA SPHERES ENCAPSULATING TiO₂
11:10 NANOPARTICLES WITH AN ENHANCED ADSORPTION
PROPERTY AND PHOTOCATALYTIC ACTIVITY**
Yasutaka Kuwahara (Osaka University, Japan)
- 4EY02 HYDROGEN PHOTO-EVOLUTION FROM A GREEN ABSORBING
11:25 IRIIDIUM-COBALT DYAD**
Benjamin Elias (Université Catholique de Louvain, Belgium)
- 4EY03 VISIBLE LIGHT-MEDIATED AROMATIC SUBSTITUTION
11:40 REACTIONS WITH 4-ALKYL-1,4-DIHYDROPYRIDINES AS
ALKYLATING REAGNETS**
Kazunari Nakajima (The University of Tokyo, Japan)

**4EY04 PHOTOCATALYST SHEETS FOR EFFICIENT AND SCALABLE
11:55 WATER SPLITTING**

Takashi Hisatomi (The University of Tokyo, Japan)

**4EY05 DECARBOXYLATIVE RADICAL REACTIONS OF CARBOXYLIC
12:10 ACIDS INITIATED BY PHOTOINDUCED ELECTRON TRANSFER**

Yasuharu Yoshimi (University of Fukui, Japan)

**4EY06 TUNING THE OPTICAL AND ELECTRONIC PROPERTIES OF
12:25 BORON-CONTAINING ELECTRON-ACCEPTOR GROUPS**

Robert Matthew Edkins (University of Oxford, United Kingdom)

PM

Plenary (Room A)

Chairperson : Dongho Kim (Yonsei University, Republic of Korea)

**PL6 A SUPRAMOLECULAR APPROACH TO CONTROLLING THE
14:00 BEHAVIOR OF EXCITED STATES**

Dario M. Bassani (University of Bordeaux, France)

Oral Session (Room A)

Chairpersons : Yongfa Zhu (Tsinghua University, China)
Wonyong Choi (Pohang University of Science & Technology,
Republic of Korea)

**4A06 ELECTROCHEMICAL AND MOLECULAR APPROACHES FOR
15:00 ARTIFICIAL PHOTOSYNTHESIS**

Kyung Byung Yoon (Sogang University, Republic of Korea)

**4A07 RHENIUM-DIIMINE PHOTOSENSITISERS FOR THE LIGHT DRIVEN
15:20 PRODUCTION OF H₂ FROM A BIOMIMETIC OF THE ACTIVE SITE
OF [NiFe] HYDROGENASE**

Peter Andrew Summers (The University of Nottingham, Ningbo,
China)

4A08 **UNIQUE PHOTOCHEMISTRY OF IRON-MALONATE COMPLEXES
AND THEIR IMPLICATIONS IN WASTEWATER TREATMENT**

15:40

Zhaohui Wang (Donghua University, China)

4A09 **HETERO-ATOMICALLY DISTORTED INORGANIC CATALYSTS
FOR SOLAR FUEL PRODUCTION**

16:00

Ki Tae Nam (Seoul National University, Republic of Korea)

Oral Session (Room B)

Chairpersons : Yu Kou Du (Soochow University, China)

Wei Chen (University of Texas at Arlington, USA)

4B06 **DYNAMICS OF PHOTO-INDUCED REACTIONS INVESTIGATED
WITH A STEP-SCAN FOURIER-TRANSFORM INFRARED EMISSION
SPECTROMETER**

15:00

Yuan-Pern Lee (National Chiao Tung University, Taiwan)

4B07 **RESOLVING CATALYTIC ACTIVITY AT THE NANOSCALE AND
WITH SINGLE TURNOVER SENSITIVITY USING FLUORESCENCE
MICROSCOPY**

15:20

Maarten Roeffaers (KU Leuven, Belgium)

4B08 **TRANSFORMATION OF THE ANTIBACTERIAL AND ANTIFUNGAL
TRICLOSAN AT THE SURFACE OF KAOLINITE UPON SOLAR
LIGHT EXPOSURE: KINETIC AND MECHANISTIC STUDIES**

15:40

Mohamed Sarakha (Clermont Université, France)

4B09 **STUDY OF SELF-ASSEMBLY AND LUMINESCENT PROPERTIES OF
NEW GOLD (I)-SILVER (I) BIMETALLIC STRUCTURES**

16:00

Raquel Gavara (Universitat de Barcelona, Spain)

Oral Session (Room C)

Chairpersons : Eietsu Hasegawa (Niigata University, Japan)
Jui-Hsiang Liu (National Cheng Kung University, Taiwan)

4C06 **PHOTOCHEMISTRY AND SPECTROSCOPY IN CONVENTIONAL
15:00** **AND SUPERCRITICAL FLUIDS: FROM MONITORING C-H
ACTIVATION OF ALKANES TO INDUSTRIAL SCALE UP AND
GREEN PHOTOCHEMICAL PRODUCTION OF ANTI-MALARIAL
DRUGS**

Michael William George (The University of Nottingham, United Kingdom)

4C07 **COORDINATED ORGANIC ELECTRON STORAGE SYSTEMS
15:20**

Robert Marshall Wilson (Bowling Green State University, USA)

4C08 **ASYMMETRIC SYNTHESIS INVOLVING PHOTOCHEMICAL
15:40** **REACTION FOLLOWED BY DYNAMIC PREFERENTIAL
CRYSTALLIZATION**

Masami Sakamoto (Chiba University, Japan)

4C09 **PHOTOINDUCED DECARBONYLATIVE REARRANGEMENT OF
16:00** **BICYCLO[2.2.2]OCTENONES: SYNTHESIS OF THE MARASMANE
SKELETON**

Gary Jing Chuang (Chung Yuan Christian University, Taiwan)

Oral Session (Room D)

Chairpersons : Hiroshi Sugiyama (Kyoto University, Japan)
Ken Sakai (Kyushu University, Japan)

4D06 **DNA PHOTOREACTIVATION BY DNA: THE UV1C DNAZYME
15:00** **CATALYZES REPAIR BUT NOT FORMATION OF CYCLOBUTANE
THYMINE DIMERS USING 305 nm LIGHT**

Dipankar Sen (Simon Fraser University, Canada)

4D07 **PHOTOCAGING CHEMISTRY FOR TIME-RESOLVED X-RAY
15:20** **CRYSTALLOGRAPHY**

Marta Sans (University of Hamburg, Germany)

**4D08 HELICAL PYRENE ARRAY ON RNA DUPLEX THAT DISPLAYS
15:40 CIRCULARLY POLARIZED LUMINESCENCE**

Kazushige Yamana (University of Hyogo, Japan)

**4D09 ZERO-DIMENSIONAL HYBRID ORGANIC-INORGANIC HALIDE
16:00 PEROVSKITE MODELING: INSIGHTS FROM FIRST PRINCIPLES**

Koichi Yamashita (The University of Tokyo, Japan)

Young Session (Oral) (Room E)

Chairpersons : Jiro Abe (Aoyama Gakuin University, Japan)
Dengsong Zhang (Shanghai University, China)
Hajime Maeda (Kanazawa University, Japan)

**4EY07 P-I-N-TYPE ORGANIC SOLAR CELLS PREPARED THROUGH THE
15:00 PHOTOPRECURSOR APPROACH: THE IMPACT OF P-LAYER
MATERIAL ON PHOTOVOLTAIC PERFORMANCE**

Mitsuharu Suzuki (Nara Institute of Science and Technology, Japan)

**4EY08 DEVELOPMENT OF A ROBUST FRET SYSTEM BY USING
15:15 D-THREONINOL SCAFFOLD**

Hiromu Kashida (Nagoya University, Japan)

**4EY09 SINGLE MOLECULE SPECTROSCOPY OF PHOTOSYNTYETIC
15:30 PROTEIN AT CRYOGENIC TEMPERATURES**

Yutaka Shibata (Tohoku University, Japan)

**4EY10 FABRICATION OF ULTRA-THIN SiO₂ FILMS BY PHOTO-
15:45 OXIDIZATION OF LANGMUIR-BLODGETT FILMS WITH
SILSESQUIOXANE UNITS AND ITS APPLICATION TO RESISTIVE
MEMORY DEVICES**

Shunsuke Yamamoto (Tohoku University, Japan)

**4EY11 CHARGE TRANSFER DYNAMICS OF 9,9'-BIANTHRYL IN TWO
16:00 LIPID BILAYERS WITH DIFFERENT ACYL CHAINS**

Tomohisa Takaya (Gakushuin University, Japan)

**4EY12 STRUCTURAL DYNAMICS OF BARRIERLESS REACTION TRACKED
16:15 BY FEMTOSECOND STIMULATED RAMAN SPECTROSCOPY**

Shinya Tahara (RIKEN, Japan)

Poster Session (Room C)

16:20~17:50

**4P02 CLASSICAL MATRIX METHOD COUPLED TO LAPLACE
TRANSFORMS AS A TOOL FOR ANALYSIS OF COMPLEX
MULTIEXPONENTIAL FLUORESCENCE DECAYS**

Adilson A. Freitas (Universidade de Lisboa, Portugal)

**4P03 NEW SYMMETRICAL H-CHROMOPHORES AND THEIR
SQUARYLIUM ANALOGUES**

Sooyoul Park (Korea Research Institute of Chemical Technology,
Republic of Korea)

**4P04 IMIDAZO [1,2- α] PYRIMIDINE-BASED HIGH CONJUGATED
MATERIALS: SYNTHESIS AND PHOTOPHYSICAL PROPERTY
STUDY**

Cheng-Hua Lee (National Chi Nan University, Taiwan)

**4P05 MEASUREMENT OF LOCAL SODIUM ION LEVELS NEAR MICELLE
SURFACES WITH FLUORESCENT PHOTOINDUCED-ELECTRON-
TRANSFER SENSORS**

Seiichi Uchiyama (The University of Tokyo, Japan)

**4P06 METAL-FREE ROOM-TEMPERATURE PHOSPHORESCENT
CRYSTALS OF BIS(4-IODOBENZOYL)METHANATOBORON
DIFLUORIDE: ENHANCEMENT OF INTERSYSTEM CROSSING
ORIGINATING FROM SPECIFIC PACKING STRUCTURE**

Eisuke Ohta (Osaka Prefecture University, Japan)

**4P07 FLUORESCENCE BEHAVIOUR OF TMPYP IN AQUEOUS
DISPERSIONS OF REDUCED-CHARGE MONTMORILLONITES**

Alexander Ceklovsky (Slovak Academy of Science, Slovakia)

- 4P08** **SYNTHESIS AND MULTI-PHOTON ABSORPTION PROPERTIES OF SYMMETRIC BISARYLACETYLENE CHROMOPHORES USING FUNCTIONIZED ISOMERIC PYRAZINOINDENOCARBAZOLES AS THE RIGID ARYL SUBSTITUENTS**
Tzu-Chau Lin (National Central University, Taiwan)
- 4P09** **DEVELOPMENT OF “Si-DMA” AS FAR-RED FLUORESCENCE PROBE FOR MONITORING SINGLET OXYGEN**
Masataka Takahashi (Dojindo Laboratories, Japan)
- 4P10** **EXCESS-ELECTRON TRANSFER IN DNA BY FLUCTUATION-ASSISTED HOPPING MECHANISM**
Tetsuro Majima (Osaka University, Japan)
- 4P11** **SUBSTITUENT EFFECT ON PHOTOCHROMISM OF DIARYLETHENES HAVING AZULENE RING**
Kingo Uchida (Ryukoku University, Japan)
- 4P12** **PHOTOINDUCED BINDING OF POLY(VINYL ALCOHOL) CARRYING A MALACHITE GREEN MOIETY TO VESICLE BILAYER**
Ryoko M. Uda (Nara College, Japan)
- 4P13** **CHARACTERIZATION OF SUPRAMOLECULAR CHIRALITY IN ORGANIC CRYSTALS BY X-RAY CRYSTALLOGRAPHY AND SOLID-STATE VIBRATIONAL CIRCULAR DICHROISM SPECTROSCOPY**
Toshiyuki Sasaki (Ehime University, Japan)
- 4P14** **STUDY ON SENSITIZATION PROCESSES AND DISSOLUTION BEHAVIOR IN CHEMICALLY AMPLIFIED EXTREME ULTRAVIOLET RESISTS**
Hiroki Yamamoto (Osaka University, Japan)
- 4P15** **RHODAMINE-BASED FAR-RED FLUORESCENT PROBE FOR THE DETECTION OF CYSTEINE AND HOMOCYSTEINE OVER GLUTATHIONE**
Yunchang Liu (East China University of Science and Technology, China)

- 4P16** SYNTHESIS AND PHOTOPHYSICAL PROPERTIES OF AN ENVIRONMENTALLY SENSITIVE FLUORESCENT NUCLEOSIDE POSSESSING 8-AZA-3,7-DIDEAZAADENINE SKELETON FOR MONITORING DNA MINOR GROOVE
Yoshio Saito (Nihon University, Japan)
- 4P17** REDOX-DEPENDENT CONFORMATIONAL CHANGE OF DNA IN A SOXR PROTEIN-PROMOTER COMPLEX STUDIED USING FLUORESCENT PROBES
Kazuo Kobayashi (Osaka University, Japan)
- 4P18** PHOTO-RESPONSIVE CHEMICAL TOOLS FOR SINGLE-CELL MANIPULATION AND ANALYSIS
Satoshi Yamaguchi (The University of Tokyo, Japan)
- 4P19** VISCOSITY OF LIPID BILAYER MEMBRANE IN DMPC LIPOSOME ESTIMATED WITH PICOSECOND TIME-RESOLVED FLUORESCENCE ANISOTROPY MEASUREMENT OF FLUORESCENT PHOSPHOLIPID WITH PYRENE CHROMOPHORE
Koichi Iwata (Gakushuin University, Japan)
- 4P20** PHOTO- AND ULTRASOUND-INDUCED REACTIVE OXYGEN SPECIES-MEDIATED THERAPY AND IMAGING USING A FENTON REACTION ACTIVABLE POLYMERSOME
Wei-Peng Li (National Cheng Kung University, Taiwan)
- 4P21** IUPAC PROJECT MEASUREMENT OF PHOTOLUMINESCENCE QUANTUM YIELDS
Fred Brouwer (University of Amsterdam, The Netherlands)
- 4P22** ULTRAFAST TIME-RESOLVED TRANSIENT ABSORPTION SPECTROSCOPY OF THE INTERMEDIATES IN A PHOTO-INITIATED THIOL-ENE REACTION
Daisuke Koyama (University of Bristol, United Kingdom)
- 4P23** LIGAND SUBSTITUENT EFFECTS ON RHENIUM TRICARBONYL CATALYSTS IN CO₂ REDUCTION
Jinping Chen (Chinese Academy of Sciences, China)

- 4P24 Au NANOPARTICLES MODIFIED TiO₂ NANOTUBE ARRAYS WITH IMPROVED PHOTOELECTROCHEMICAL PERFORMANCE**
Jun Fan (Northwest University, China)
- 4P25 CRYSTAL GROWTH OF TITANIA BY PHOTOCATALYTIC REACTION**
Hiromasa Nishikiori (Shinshu University, Japan)
- 4P27 VITAMIN B₂ ANALOGUES IN INTERACTIONS WITH G-QUADRUPLEX NUCLEIC ACID STRUCTURES**
Malgorzata Insinska-Rak (Adam Mickiewicz University, Poland)
- 4P28 MESOLYSIS OF POLYPHENYLETHANE RADICAL ANIONS**
Sachiko Tojo (Osaka University, Japan)
- 4P29 SOLUTION-PROCESSED LIGHT-EMITTING ELECTROCHEMICAL CELLS USING SMALL ORGANIC EMITTERS**
Shanmugasundaram Kanagaraj (Pusan National University, Republic of Korea)
- 4P30 TWO DIMENSIONAL PORPHYRIN POLYMER SYNTHSIZED BY SIMULTANEOUS COORDINATION OF METAL AND AXIAL-LIGAND IN COVALENT ORGANIC FRAMEWORKS**
Yasuko Osakada (Osaka University, Japan)
- 4P31 SWITCHABLE CONFORMATION AND π -ELECTRONIC NETWORKS IN 5,20-BIS(OLIGOTHIENYL)-SUBSTITUTED HEXAPHYRINS**
Juwon Oh (Yonsei University, Republic of Korea)
- 4P32 DEVELOPMENT OF N-TYPE MOLECULAR SEMICONDUCTORS THAT CAN BE DEPOSITED VIA THE PHOTOPRECURSOR APPROACH**
Kazuki Kawajiri (Nara Institute of Science and Technology, Japan)
- 4P33 CIRCULARLY POLARIZED LUMINESCENCE PROPERTY OF CHIRAL TETRANUCLEAR EUROPIUM COMPLEXES**
Yan Bing Tan (Nara Institute of Science and Technology, Japan)

- 4P34 THE EFFECT OF π -LINKERS IN THE EXCITED-STATE DYNAMIC PLANARIZATION PROCESSES OF CYCLIC OLIGOTHIOPHENE 12-MERS**
Woojae Kim (Yonsei University, Republic of Korea)
- 4P35 EFFICIENT RED EMISSION OF MIXED CRYSTALS COMPOSED OF DIAROYL METHANATOBORON DIFLUORIDES**
Shota Nishida (Osaka Prefecture University, Japan)
- 4P36 DESIGN AND SYNTHESIS OF PYRAZINE-BASED FLUOROPHORES WITH “AIE” AND “ESIPT” CHARACTERISTICS**
Hoi Pang Sung (The Hong Kong University of Science and Technology, China)
- 4P37 REGIO- AND STEREOSELECTIVITY IN THE PHOTOCHEMICAL [2+2] CYCLOADDITION REACTION (PATERNÓ-BÜCHI REACTION) OF AROMATIC CARBONYL COMPOUNDS WITH PYRROLE DERIVATIVES**
Jianfei Xue (Hiroshima University, Japan)
- 4P38 OPTICALLY INDUCED ELECTRON TRANSFER AND THERMAL ELECTRON TRANSFER IN BIS(TRIARYLAMINE) MIXED-VALENCE RADICAL CATIONS WITH BENZENE BRIDGING UNITS**
Julian Schäfer (University of Würzburg, Germany)
- 4P39 IN-SITU MICROSCOPIC IMAGING FOR PHOTOISOMERIZATION AND CRYSTALLIZATION OF DIARYLETHENE FILM WITH UPRIGHT-INVERTED MICROSCOPE**
Taiga Kadoyama (Kwansei Gakuin University, Japan)
- 4P40 EFFECTS OF PHOTOCROMISM ON PHOTOPHYSICAL PROPERTIES OF CdTe QUANTUM DOTS**
Kenta Uemoto (Kwansei Gakuin University, Japan)
- 4P41 ELECTRONIC RELAXATION DYNAMICS REVEALS THE REVERSIBLE THERMOCHROMIC PROPERTIES OF POLYDIACETYLENES**
Joonyoung Francis Joung (Korea University, Republic of Korea)

- 4P42 SINGLE-PARTICLE PHOTOLUMINESCENCE MEASUREMENTS REVEAL THE SURFACE CHARGE TRAPPING IN ORGANOLEAD BROMIDE PEROVSKITE**
Izuru Karimata (Kobe University, Japan)
- 4P43 SELECTIVE SURFACE-MODIFICATION BY RECOGNIZING THE ACTIVE FACET OF POLYMER-METAL COMPLEX NANOCRYSTALS**
Ryuju Suzuki (Tohoku University, Japan)
- 4P44 ENHANCED PHOTOCATALYTIC PERFORMANCE OF BORON DOPED g-C₃N₄ FOR THE PHOTOCATALYTIC REDUCTION OF UO₂²⁺ POLLUTANT**
Shaoqing Song (East China University of Technology, China)
- 4P45 PREPARATION OF A Fe-BASED METAL-ORGANIC FRAMEWORK PHOTOELECTRODE FOR WATER OXIDATION UNDER VISIBLE-LIGHT IRRADIATION**
Yusuke Kamata (Osaka Prefecture University, Japan)
- 4P46 DEBYE BEHAVIOR ANALYSIS OF OPTICAL PROPERTIES IN ZINC OXIDE-BASED BY DYE-SENSITIZED SOLAR CELLS**
Jui-Ju Hsiao (Chang Gung University, Taiwan)
- 4P47 A CONSTRUCTION OF ARTIFICIAL LIGHT-HARVESTING SYSTEM WITH ENERGY MIGRATION FUNCTIONALITY OF XANTHENE DERIVATIVE ON THE INORGANIC NANO-SHEET**
Yuta Ohtani (Tokyo Metropolitan University, Japan)
- 4P48 FOLLOWING [FeFe] HYDROGENASE ACTIVE SITE INTERMEDIATES BY FLASH PHOTOLYSIS/MID-IR PROBING**
Mohammad Mirmohades (Uppsala University, Sweden)
- 4P49 FEMTO-SECOND FIBER LASER EXCITABLE PYRENE TYPE TWO-PHOTON FLUORESCENCE PROBE**
Hiroki Moritomo (Yamaguchi University, Japan)

- 4P50 UPON PHOTOEXCITATION OF AROMATIC CARBONYL COMPOUNDS: KETYL RADICAL FORMATION VIA ELECTRON PROTON TRANSFER IN AQUEOUS SOLUTION VERSUS HYDROGEN ATOM TRANSFER IN ISOPROPANOL**
Xiting Zhang (The University of Hong Kong, China)
- 4P51 PROTEIN BINDING BENDS THE GOLD NANOPARTICLE CAPPED DNA SEQUENCE: TOWARDS NOVEL ENERGY-TRANSFER BASED PHOTOELECTROCHEMICAL PROTEIN DETECTION**
Zheng Yuan Ma (Nanjing University, China)
- 4P52 PHOTOVOLTAIC PROPERTIES OF A NEW QUINOXALINE-BASED COPOLYMER INTRODUCING THIENO[3,2-b]THIOPHENE AS SIDE CHAINS FOR ORGANIC PHOTOVOLTAIC CELLS**
Mijeong Kim (Pusan National University, Republic of Korea)
- 4P53 EFFECT OF INTERACTIONS BETWEEN ORGANIC ACID ADDITIVES AND IRON OXIDE ON THE FORMATION OF SURFACE CARBON LAYER OF HEMATITE ELECTRODES PREPARED BY ELECTRODEPOSITION**
Chia-Che Chiang (National Tsing Hua University, Taiwan)
- 4P54 INFLUENCE OF VALENCE STATES OF PLUTINIUM ON PHOTOCATALYTIC ACTIVITIES OF PLATINUM-ION-DOPED TITANIUM DIOXIDE UNDER VISIBLE LIGHT IRRADIATION**
Naoto Nishiyama (Yamaguchi University, Japan)
- 4P55 PREFERENTIAL OXIDATION OF CARBON MONOXIDE IN HYDROGEN RICH ATMOSPHERE OVER A Ti-BASED METAL-ORGANIC FRAMEWORK PHOTOCATALYST UNDER UV-LIGHT IRRADIATION**
Tomohiro Ota (Osaka Prefecture University, Japan)
- 4P56 CORE-SHELL STRUCTURAL CdS@SnO₂ NANORODS WITH EXCELLENT VISIBLELIGHT PHOTOCATALYTIC ACTIVITY FOR THE SELECTIVE OXIDATION OF BENZYL ALCOHOL TO BENZALDEHYDE**
Ya Liu (East China University of Science and Technology, China)

4P57 THE EFFECT OF SILVER ON MAGNETIC AND PHOTOCATALYTIC PROPERTIES OF BISMUTH FERRITES

Phuc Hoang Nguyen (Sun Moon University, Republic of Korea)

4P58 GAS-PHASE PHOTOCATALYTIC CO₂ CONVERSION INTO CO ON THE SOLID FILM ZnO-Cu₂O CATALYST

Chan Kyu Lim (Korea Advanced Institute of Science and Technology, Republic of Korea)

4P59 PHOTOCATALYTIC WATER OXIDATION ON BiVO₄ PHOTOCATALYST WITH DIFFERENT CRYSTALLINE PHASE AND MORPHOLOGY

Yue Zhao (Dalian Institute of Chemical Physics, CAS, China)

4P60 VISUALIZING THE PHOTOGENERATED CHARGE SEPARATION ON SINGLE CRYSTAL Cu₂O PHOTOCATALYST

Ruotian Chen (Chinese Academy of Sciences, China)

4P61 SHELL EFFECTS ON HOLE-COUPLED ELECTRON TRANSFER DYNAMICS IN QUASI-TYPE II CdSe/CdS QUANTUM DOT-METHYL VIOLOGEN COMPLEXES

Peng Zeng (The University of Melbourne, Australia)

4P62 EFFECT OF METAL AS AN ELECTRON SINK AND A RECOMBINATION CENTER ON METAL-SEMICONDUCTOR NANODUMBELL PHOTOCATALYSTS

Ji Yong Choi (Korea Advanced Institute of Science and Technology, Republic of Korea)

4P63 PHOTOCATALYTIC REDUCTION OF CO₂ TO CO WITH H₂O BY HZSM-5 ZEOLITE AT ROOM TEMPERATURE

Yuecong Tong (Fuzhou University, China)

Friday, April 8

AM

Plenary (Room A)

Chairperson : Kyung Byung Yoon (Sogang University, Republic of Korea)

PL7 **PHOTOGENERATED CHARGE SEPARATION IN ARTIFICIAL 10:00** **PHOTOSYNTHESIS SYSTEMS**

Can Li (Dalian Institute of Chemical Physics, CAS, China)

Invited (Room A)

Chairperson : Fred Brouwer (University of Amsterdam, The Netherlands)

IL10 **PHOTOINDUCED ELECTRON TRANSFER REACTIONS FOR 11:00** **MACROMOLECULAR SYNTHESIS**

Yusuf Yagci (Istanbul Technical University, Turkey)

Oral Session (Room A)

Chairpersons : Hiroshi Imahori (Kyoto University, Japan)

Jong Hwa Jung (Gyeongsang National University, Republic of Korea)

5A02† **DONOR-ACCEPTOR SYSTEMS FOR OPTOELECTRONIC 11:30** **APPLICATIONS**

Hiroshi Imahori (Kyoto University, Japan)

5A03 **SEMICONDUCTING POLYMERS BASED ON 11:50** **NAPHTHOBISCHALCOGENADIAZOLES FOR ORGANIC PHOTOVOLTAICS**

Kazuo Takimiya (RIKEN, Japan)

5A04† **DEVELOPMENT OF ORGANIC AND POLYMERIC FUNCTIONAL 12:10** **MATERIALS FOR SOLAR CELL APPLICATIONS**

Yen-Ju Cheng (National Chiao Tung University, Taiwan)

5A05[†] HIGHLY-EFFICIENT DYE-SENSITIZED SOLAR CELLS WITH COLLABORATIVE SENSITIZATION BY SILYL-ANCHOR AND CARBOXY-ANCHOR DYES

Minoru Hanaya (Gunma University, Japan)

Invited (Room B)

Chairperson : Yasuteru Urano (The University of Tokyo, Japan)

IL11 SINGLE MOLECULE SPECTROSCOPY OF A SINGLE LIVE CELL

11:00 Kankan Bhattacharyya (Indian Association for the Cultivation of Science, India)

Oral Session (Room B)

Chairpersons : Tzu-Chau Lin (National Central University, Taiwan)
Hisashi Shimakoshi (Kyushu University, Japan)

5B02 ALL-OPTICAL CONTINUOUS FINE-TUNING OF THE ABSORPTION BAND OF THE CLOSED FORM OF DIARYLETHENE BY PHOTORESPONSIVE SPIROPYRAN ACID

11:30

Yasushi Yokoyama (Yokohama National University, Japan)

5B03 SURFACE PLASMON COUPLING WITH A PHOTOCROMIC FILM IN HYBRID STRUCTURES

11:50

Guillaume Christophe Laurent (Université Paris-Saclay, France)

5B04 PHOTOMECHANICAL FUNCTION OF MOLECULAR CRYSTALS

12:10

Hideko Koshima (Waseda University, Japan)

5B05 THE STILL UNKNOWN PROCESS OF LIGHT MEDIATED EMERGENCE OF SURFACE PATTERN IN AZOPOLYMER

12:30

Regis Barillé (Moltech-Anjou/University of Angers, France)

Oral Session (Room C)

Chairpersons : Keitaro Nakatani (Ecole Normale Supérieure de Cachan, France)

Zhao Hui Li (Fuzhou University, China)

5C01 **PHOTOACTIVE NANOMATERIALS: CONTROLLABLE SYNTHESIS, STRUCTURAL MODIFICATION AND SURFACE CHEMISTRY**

11:10

Chuanyi Wang (Chinese Academy of Sciences, China)

5C02 **THE ELECTRONIC STRUCTURE AND PHOTOINDUCED ELECTRON TRANSFER RATE OF CADMIUM SELENIDE QUANTUM DOTS ON SINGLE CRYSTAL RUTILE TiO₂**

11:30

Taro Toyoda (The University of Electro-Communications, Japan)

5C03[†] **INTEGRATION OF TiO₂ WITH POROUS MATERIALS AS EFFICIENT PHOTOCATALYST FOR THE PURIFICATION OF VOCS IN AIR**

11:50

Taicheng An (Chinese Academy of Sciences, China)

5C04 **SIMPLE SOLUTION PHASE SYNTHESIS OF C₆₀-TiO₂ NANO COMPOSITE AND ITS ENHANCED PHOTO CATALYTIC ACTIVITY**

12:10

Salma Mohamed AlKindy (Sultan Qaboos University, Oman)

5C05[†] **THIOCYANATE MODIFIED SILVER-LOADED TITANIA FOR PHOTOCATALYTIC HYDROGEN PRODUCTION**

12:30

Wonyong Choi (Pohang University of Science and Technology, Republic of Korea)

Oral Session (Room D)

Chairpersons : Dong Ha Kim (Ewha Womans University, Republic of Korea)
Prem Chapagain (Florida International University, USA)

5D01 **FEMTOSECOND TO MICROSECOND TIME RESOLVED INFRARED STUDIES OF PHOTOCHEMICAL SWITCHES IN LIGHT SENSING PROTEINS**

11:10

Stephen Meech (University of East Anglia, United Kingdom)

5D02 **QUANTUM CONTROL OF POPULATION TRANSFER AND
11:30** **VIBRATIONAL STATES BY CHIRPED PULSES IN FOUR LEVEL
DENSITY MATRIX EQUATIONS**

Carles Serrat (Universitat Politècnica de Catalunya, Spain)

5D03† **SHAPE EFFECTS OF COCATALYSTS ON PHOTOCATALYTIC
11:50** **HYDROGEN PRODUCTION VIA METAL/CdS PHOTOCATALYSTS
UNDER VISIBLE LIGHT**

Weifeng Yao (Shanghai University of Electric Power, China)

5D04 **ULTRAFAST PHOTOENERGY CONVERSION PROCESSES AT
12:10** **SOLID/LIQUID INTERFACE**

Hidenori Noguchi (National Institute for Materials Science, Japan)

5D05 **GOLD-PALLADIUM CORE-SHELL NANOCRYSTALS AS AN
12:30** **EFFICIENT PLASMONIC PHOTOCATALYST FOR HYDROGEN
EVOLUTION REACTION**

Sourav Rej (National Tsing Hua University, Taiwan)

Oral Session (Room E)

Chairpersons : Kazuo Kobayashi (Osaka University, Japan)

Aijun Tong (Tsinghua University, China)

Tomoyoshi Suenobu (Osaka University, Japan)

5E05† **PHOTODEGRADATION OF ORGANIC POLLUTION VIA
12:30** **HYDROGEL 3D PHOTOCATALYSTS WITH FREE SEPARATION**

Yongfa Zhu (Tsinghua University, China)

Young Session (Oral) (Room E)

Chairpersons : Kazuo Kobayashi (Osaka University, Japan)
Aijun Tong (Tsinghua University, China)
Tomoyoshi Suenobu (Osaka University, Japan)

5EY01 11:10 HIGHLY EFFECTIVE SYNTHETIC METHOD FOR THE ORGANIC PHOTOREACTIONS BY UNIQUE FLOW MODE IN FLOW MICROREACTORS

Yasuhiro Nishiyama (Nara Institute of Science and Technology, Japan)

5EY02 11:25 A COLORIMETRIC AND RATIOMETRIC FLUORESCENCE SENSOR FOR SENSITIVE DETECTION OF FLUORIDE IONS IN WATER

Yi Zeng (Chinese Academy of Sciences, China)

5EY03 11:40 MULTICOMPONENT MOLECULAR PUZZLES FOR PHOTOFUNCTION DESIGN: FLEXIBLE COLOR TUNING AND WHITE LIGHT EMISSION IN COOPERATIVE DONOR-ACCEPTOR MOLECULAR CRYSTALS

Toshikazu Ono (Kyushu University, Japan)

5EY04 11:55 SPECTROSCOPIC AND STRUCTURAL STUDIES ON LIGHT-DRIVEN SODIUM PUMP RHODOPSIN

Keiichi Inoue (Nagoya Institute of Technology, Japan)

5EY05 12:10 NOVEL PUSH-PULL PORPHYRIN WITH TROPOLONE AS A HIGH-PERFORMANCE ROBUST ANCHORING GROUP FOR DYE-SENSITIZED SOLAR CELLS

Tomohiro Higashino (Kyoto University, Japan)

PM

Plenary (Room A)

Chairperson : Sunao Yamada (Kyushu University, Japan)

PL8 14:00 PHOTOACTIVE MATERIALS FOR ENERGY CONVERSION

Nicola Armaroli (Institute for Organic Synthesis and Photoreactivity, CNR, Italy)

Oral Session (Room A)

Chairpersons : Suzuko Yamazaki (Yamaguchi University, Japan)
Marek Sikorski (Adam Mickiewicz University, Poland)
Vytautas Martynaitis (Kaunas University of Technology, Lithuania)
Mitsunobu Nakamura (University of Hyogo, Japan)

5A06 STUDY ON THE “META-EFFECT” PHOTOCHEMICAL REACTIONS OF SELECTED BENZOPHENONE COMPOUNDS

15:00

Jiani Ma (Northwest University, China)

5A07 APPLICATION OF PHOTOELECTROCHEMICAL REACTION IN INDUSTRIAL WASTEWATER TREATMENT: THE WATER ENERGY NEXUS

15:20

Tsing-Hai Wang (National Tsing Hua University, Taiwan)

Student Session (Oral) (Room A)

Chairpersons : Suzuko Yamazaki (Yamaguchi University, Japan)
Marek Sikorski (Adam Mickiewicz University, Poland)
Vytautas Martynaitis (Kaunas University of Technology, Lithuania)
Mitsunobu Nakamura (University of Hyogo, Japan)

5AS10 A HOMOLEPTIC MOLYBDENUM (0) COMPLEX WITH CHELATING ISONITRILE LIGANDS AS A [Ru(bpy)₃]²⁺ ANALOG

15:40

Laura Allegra Büldt (University of Basel, Switzerland)

5AS11 NONMETAL P-DOPED HEMATITE PHOTOANODE WITH ENHANCED ELECTRON MOBILITY AND HIGH WATER OXIDATION ACTIVITY

15:50

Yuchao Zhang (Chinese Academy of Sciences, China)

5AS01 PHOTOCATALYTIC PROMOTING DIMETHYLFORMAMIDE (DMF) DECOMPOSITION TO IN-SITU GENERATION OF SELF-SUPPLIED CO FOR CARBOXYLATIVE SUZUKI REACTION

16:00

Xue Feng (Fuzhou University, China)

5AS02 PHOTOCATALYTIC ACTIVITY OF INDIUM OXIDE NANOSTRUCTURES DERIVED FROM COORDINATION POLYMER PRECURSORS

16:10

Wei-Yin Sun (Nanjing University, China)

**5AS03 CATALYST-FREE, VISIBLE LIGHT MEDIATED TRANSFORMATIONS
WITH POLYHALOMETHANES**

16:20

Wolfgang Kraus (University of Leipzig, Germany)

**5AS04 PHOTOPHYSICS AND SPIN-CHEMISTRY IN DONOR-ACCEPTOR-
SUBSTITUTED DIPYRRINATO-METAL-COMPLEXES**

16:30

Stefan Reiner Riese (Universität Würzburg, Germany)

**5AS05 PHOTOINDUCED CHARGE ACCUMULATION IN A MOLECULAR
PENTAD**

16:40

Martin Kuss-Petermann (University of Basel, Switzerland)

5AS06 EXCITONIC COUPLING EFFECTS IN SQUARINE OLIGOMERS

16:50

Maximilian Hubert Schreck (Universität Würzburg, Germany)

**5AS07 SUPRAMOLECULAR ORGANIC NANOWIRES FOR EFFICIENT
OXYGEN EVOLUTION UNDER VISIBLE LIGHT**

17:00

Jun Wang (Tsinghua University, China)

17:30 Awards & Closing Ceremony

Oral Session (Room B)

Chairpersons : Tadashi Mori (Osaka University, Japan)

Alexander Ivanovich Ponyaev (Saint Petersburg State Institute
of Technology, Russia)

Wanhong Ma (Institute of Chemistry, CAS, China)

Tadao Takada (University of Hyogo, Japan)

**5B06 MULTIFUNCTIONAL METAL-ORGANIC FRAMEWORKS (MOFs)
FOR LIGHT-INDUCED ORGANIC TRANSFORMATIONS**

15:00

Zhao Hui Li (Fuzhou University, China)

5B07† EFFICIENT AND STABLE LARGE-AREA PEROVSKITE SOLAR CELLS

15:20

Liyuan Han (National Institute for Materials Science, Japan)

5B08 NANOSCALE INORGANIC OPTICAL FILTERS

15:40

Jerome Kartham Hyun (Ewha Womans University, Republic of Korea)

Student Session (Oral) (Room B)

Chairpersons : Tadashi Mori (Osaka University, Japan)

Alexander Ivanovich Ponyaev (Saint Petersburg State Institute
of Technology, Russia)

Wanhong Ma (Institute of Chemistry, CAS, China)

Tadao Takada (University of Hyogo, Japan)

5BS01 SLOWING DOWN OF THE PROTON TRANSFER PROCESS OF 16:00 PYRANINE IN PRESENCE OF HYDRATED MCM-41 MATERIALS

Noemi Alarcos (Universidad de Castilla-La Mancha, Spain)

5BS02 ANISOTROPIC MAGNETIC FIELD EFFECTS IN PHOTOEXCITED 16:10 MOLECULAR TRIADS - TOWARDS A MODEL FOR AVIAN MAGNETORECEPTION

Sabine Richert (University of Oxford, United Kingdom)

5BS03 A MECHANISTIC STUDY ON RADIATION-INDUCED GRAFT 16:20 POLYMERIZATION OF POLYSTYRENE INTO A FLUORINATED POLYMER

Beom-Seok Ko (Japan Atomic Energy Agency, Japan)

5BS04 PRIMARY PHOTOCHEMICAL PROCESSES OF 16:30 HEXACHLOROPLATINATE IN ACETONITRILE

Svetlana Matveeva (Voevodsky Institute of Chemical Kinetics and
Combustion, Russia)

5BS05 COMPETITION BETWEEN EXCIMER FORMATION AND ENERGY 16:40 TRANSFER PROCESSES IN Zr-BASED MOFS

Mario Gutiérrez (Universidad de Castilla-La Mancha, Spain)

5BS06 UPCONVERSION IN HIGHLY TRANSPARENT ALFA-SIALON 16:50 CERAMICS

Yuwaraj K. Kshetri (Sun Moon University, Republic of Korea)

5BS07 ONE-STEP FABRICATION OF ARTIFICIAL PHOTOSYSTEM I FOR 17:00 COENZYME REGENERATION

Xiaowen Huang (The Hong Kong Polytechnic University, China)

**5BS08 COHERENT PHONON DYNAMICS AT GRAPHENE/ALKALI
17:10 ATOMS/Ir (111) SURFACES**

Shunsuke Tanaka (Kyoto University, Japan)

**5BS09 3D SERS IMAGING USING CHEMICALLY-SYNTHESIZED
17:20 SYMMETRIC NANOPOROUS SILVER MICROPARTICLE**

Sanpon Vantasin (Kwansei Gakuin University, Japan)

Oral Session (Room C)

Chairpersons : Salma Mohamed AlKindi (Sultan Qaboos University, Oman)
Shuai Yuan (Shanghai University, China)
Masanori Sakamoto (Kyoto University, Japan)

**5C06[†] FACILE SYNTHESIS OF π -EXTENDED PHENACENES BY THE
15:00 MALLORY PHOTOCYCLIZATION AND THEIR APPLICATION TO
ORGANIC FIELD-EFFECT TRANSISTOR**

Hideki Okamoto (Okayama University, Japan)

**5C07[†] ONE-STEP OXYGENATION OF ALKANES PHOTSENSITIZED BY
15:20 BENZOQUINONE DERIVATIVES**

Kei Ohkubo (Osaka University, Japan)

**5C08 PHOTOCHEMISTRY OF HYDROXYMETHYLANILINE DERIVATIVES
15:40 AS POTENTIAL PHOTOCAGES**

Nikola Basarić (Rudjer Bošković Institute, Croatia)

Student Session (Oral) (Room C)

Chairpersons : Salma Mohamed AlKindi (Sultan Qaboos University, Oman)
Shuai Yuan (Shanghai University, China)
Masanori Sakamoto (Kyoto University, Japan)

**5CS01 CARBON DIOXIDE FIXATION BY TITANIUM OXIDE
16:00 PHOTOCATALYSTS**

Akanksha Tyagi (Kyoto University, Japan)

- 5CS02 HIGH-ORIENTED HIERARCHICAL TITANIA NANOTUBE ARRAYS WITH IMPROVED PHOTOCATALYTIC PERFORMANCE**
16:10
Lulu Lai (Zhejiang University, China)
- 5CS03 ENHANCED POWER CONVERSION EFFICIENCY OF PEROVSKITE SOLAR CELLS BASED ON ZINC-DOPED TITANIA ELECTRON TRANSPORT LAYER**
16:20
Shun-Hsiang Chan (Chang Gung University, Taiwan)
- 5CS04 FABRICATING WO₃ NANO FLOWER THIN FILM PHOTOANODE FOR WATER OXIDATION**
16:30
Yuyu Bu (Tokushima University, Japan)
- 5CS05 PHOTOELECTROCHEMICAL REDUCTION OF CO₂ BY INDIUM SULFIDE MODIFIED COPPER INDIUM SULFIDE PHOTOCATHODE**
16:40
Su Jung Sim (Korea Center of Artificial Photosynthesis, Republic of Korea)
- 5CS06 OXYNITRIDE-BASED SOLID STATE Z-SCHEME PHOTOCATALYTIC SYSTEMS UTILIZING Nb_{3.49}N_{4.56}O_{0.44} AS ELECTRON COLLECTOR**
16:50
Yansong Zhou (Harbin Institute of Technology, China)
- 5CS07 DESIGN OF PLASMONIC Pd/Ag BIMETALLIC NANOCATALYST FOR EFFICIENT CATALYSIS UNDER VISIBLE LIGHT IRRADIATION**
17:00
Priyanka Verma (Osaka University, Japan)
- 5CS08 GLUCOSE PRECURSOR GENERATION WITH IMMOBILIZED ENZYME ON GOLD NANOPARTICLES IN MICROFLUIDIC REACTORS**
17:10
Yujiao Zhu (Hong Kong Polytechnic University, China)
- 5CS09 FUNCTION-LED DESIGN OF Z-SCHEME PHOTOCATALYTIC SYSTEMS BASED ON HOLLOW CARBON NITRIDE SEMICONDUCTORS**
17:20
Dan dan Zheng (Fuzhou University, China)

Oral Session (Room D)

Chairpersons : Satoshi Habuchi (King Abdullah University of Science and
Technology, Saudi Arabia)

Fa-tang Li (Hebei University of Science and Technology, China)

Regis Barille (University of Angers, France)

Yasuharu Yoshimi (University of Fukui, Japan)

5D06 15:00 MONITORING ONE-ELECTRON PHOTO-OXIDATION OF GUANINE IN DNA CRYSTALS USING ULTRAFAST INFRARED SPECTROSCOPY

Susan J. Quinn (University College Dublin, Ireland)

5D07 15:20 REVEALING BIOMOLECULAR STRUCTURAL HETEROGENEITY AND DYNAMICS WITH TIME-RESOLVED FLUORESCENCE

J r mie L onard (Universit  de Strasbourg, France)

5D08 15:40 A SPONTANEOUSLY BLINKING FLUOROPHORE BASED ON INTRAMOLECULAR SPIROCYCLIZATION FOR LIVE-CELL SUPER- RESOLUTION IMAGING

Yasuteru Urano (The University of Tokyo, Japan)

Student Session (Oral) (Room D)

Chairpersons : Satoshi Habuchi (King Abdullah University of Science and
Technology, Saudi Arabia)

Fa-tang Li (Hebei University of Science and Technology, China)

Regis Barille (University of Angers, France)

Yasuharu Yoshimi (University of Fukui, Japan)

5DS01 16:00 Ca-DOPED PEROVSKITE SOLAR MATERIALS FOR HIGH- EFFICIENCY HYBRID SOLAR CELLS

Tzu-Hao Lin (Chang Gung University, Taiwan)

5DS02 16:10 FABRICATION OF VIS-TO-UV UPCONVERSION THIN FILM AND ITS APPLICATION TO SMART WINDOW

Ha Rae Kang (Korea Center of Artificial Photosynthesis, Republic of
Korea)

**5DS03 ELECTROCHEMICAL CO₂ REDUCTION AT LOW OVERPOTENTIAL
16:20 BY POLY(4-VINYL PYRIDINE) MODIFIED ELECTRODE**

Hohyun Jeong (Korea Center for Artificial Photosynthesis, Republic of Korea)

**5DS04 PHOTOSWITCHING OF EMISSION COLOR WITH HYBRID
16:30 NANOSYSTEMS**

Corentin Pavageau (PPSM, ENS-Cachan, CNRS, Université Paris-Saclay, France)

**5DS05 FLUORESCENT NANOPARTICLES BASED ON POLYFLUORENE-
16:40 LIPOSOME COMPLEXES: CHARACTERIZATION AND
APPLICATION IN BIOSENSING**

Zehra Kahveci (Universidad Miguel Hernández de Elche, Spain)

**5DS06 USING FLUORESCENCE TO SHED LIGHT ON CONTACT
16:50 MECHANICS: MOLECULES WITH A TWIST**

Tomislav Suhina (University of Amsterdam, The Netherlands)

**5DS07 HYBRID AZO NANOASSEMBLIES AS POTENTIAL PHOTO-AND
17:00 MAGNETO-SWITCHABLE MATERIALS**

Pauline Girard (University of Nantes, France)

**5DS08 PHOTOINDUCED 2D-PATTERNING OF A SUPRAMOLECULAR π
17:10 -CONJUGATED GELATOR**

Christiaan de Vet (Université de Bordeaux, France)

**5DS09 SELF-ASSEMBLED ALL-ORGANIC PDINH SUPRAMOLECULAR
17:20 FOR PHOTOCATALYSIS UNDER VISIBLE LIGHT**

Di Liu (Tsinghua University, China)

18:10 Mixer

Oral Session (Room E)

Chairpersons : Masami Sakamoto (Chiba University, Japan)
Rengaraj Selvaraj (Sultan Qaboos University, Oman)
Olivier Soppera (CNRS, France)
Kiyohiko Kawai (Osaka University, Japan)

5E06[†] 15:00 **HIGHLY EFFICIENT AND ROBUST ORGANIC-INORGANIC TERNARY PHOTOCATALYTIC SYSTEM FOR CARBON DIOXIDE REDUCTION**

Ho-Jin Son (Korea University, Republic of Korea)

5E07[†] 15:20 **EXCITON LIFETIME CONTROL IN THERMALLY ACTIVATED DELAYED FLUORESCENCE MATERIALS**

Jang Hyuk Kwon (Kyung Hee University, Republic of Korea)

5E08 15:40 **GENERATION AND CYCLOADDITION REACTION OF QUINOLINIUM YLIDES USING PHOTOCHEMICAL ISOMERIZATION OF ACYLSILANE TO SILOXYCARBENE**

Hiroyuki Kusama (Gakushuin University, Japan)

Student Session (Oral) (Room E)

Chairpersons : Masami Sakamoto (Chiba University, Japan)
Rengaraj Selvaraj (Sultan Qaboos University, Oman)
Olivier Soppera (CNRS, France)
Kiyohiko Kawai (Osaka University, Japan)

5ES01 16:00 **BIS(N-HETEROCYCLIC CARBENE) LIGANDS-CONTAINING LUMINESCENT IRIIDIUM (III) COMPLEXES: PHOTO-STABILITY, EXCITED STATE PROPERTIES, VISIBLE-LIGHT-DRIVEN RADICAL CYCLIZATION AND CO₂ REDUCTION, AND CELLULAR IMAGING**

Chen Yang (The University of Hong Kong, China)

5ES02 16:10 **STUDIES TOWARD THE TOTAL SYNTHESIS OF PENTALENOLACTONES**

Guang-Hao Niu (Chung Yuan Christian University, Taiwan)

- 5ES03** CONTROL OF AN ENZYME REACTION USING CAGED
16:20 RESVERATOROL HAVING THIOCHROMONE-TYPE PHOTOLABILE
PROTECTING GROUP
Shin Hikage (Nara Institute of Science and Technology, Japan)
- 5ES04** N-ACENE BASED SELF-ASSEMBLED NANO-RIBBONS: GROWTH
16:30 MECHANISMS, COLOR-TUNING FLUORESCENCE AND AN
ORTHOGONAL NETWORK
Philip Schäfer (Université de Bordeaux, France)
- 5ES05** UNDERSTANDING PHOTOPHYSICS OF THIOSUBSTITUTED
16:40 PYRIMIDINE NUCLEOBASES: POPULATION OF TRIPLET STATES
INFLUENCED BY THE POSITION AND DEGREE OF
THIOSUBSTITUTION
Serra Arslançan (Universidad Autónoma de Madrid, Spain)
- 5ES06** AN EFFICIENT VISIBLE-LIGHT-RESPONSIVE SYSTEM FOR CO₂
16:50 REDUCTION USING RHENIUM COMPLEXES INTERCALATED
INTO PHOSPHATE LAYERED MATRIX
Meicheng Wen (Osaka University, Japan)
- 5ES07** SELF-ASSEMBLE 2D MoS₂ NANOSHEET-COATED SiC NANO-
17:00 HYDRANGEA FOR VISIBLE-LIGHT PHOTOCATALYTIC CO₂
REDUCTION
Ying Wang (Fuzhou University, China)
- 5ES08** SEPARATION-FREE POLYANILINE/ CARBON NITRIDE
17:10 COMPOSITE HYDROGEL WITH 3D HIERARCHICAL STRUCTURE
Wenjun Jiang (Tsinghua University, China)
- 5ES09** PHOTOCATALYTIC CO₂ REDUCTION BY COPPER IRON OXIDE/
17:20 REDUCED GRAPHENE OXIDE/POLYPYRROLE COMPOSITE
Hyeyeong Jung (Korea Center for Artificial Photosynthesis, Republic
of Korea)