IPS-24/ICARP2024 Young, 27-28th July 2024, Hiroshima, Japan
Time table

Saturday, July 27, 2024		
12:00	13:00	Registration, Refreshments
13:00	13:10	Opening Remarks
		Session I (Chair: Kei Murata/Kosei Yamauchi)
13:10	13:40	Invited Lecture 1: **Yuki Nagashima** / Tokyo Institute of Technology Development of photoinduced reactions utilizing the characteristics of diverse elements
13:40	14:00	Oral 1: **Shozo Yanagida** / Osaka University How can perovskite solar cells achieve long-term durability? Prediction and verification using density functional theory-based molecular modeling (DFT/MM)
14:00	14:20	Oral 2: **Hiromu Kumagai** / The University of Tokyo Introduction of Renewable Fuels to Japan: Concept and Current Situation
14:20	14:35	Coffee Break
		Session II (Chair: Yosuke Kageshima)
14:35	14:50	Student Oral 1: **Xinyang Huang** / Niigata University Ligand-assisted fabrication of Transparent Mesoporous FeNiOx Films for Efficient Electrocatalytic Water Oxidation
14:50	15:05	Student Oral 2: **Tomohiro Katsuki** / Niigata University Efficient visible-light-driven water oxidation on a Fe-doping SnOx layer deposited on a CuWO4 photoanode
15:05	15:20	Student Oral 3: **Fan Feng** / Johannes Gutenberg University Mainz High-Performance BiVO4 Photoanodes: Elucidating the Combined Effects of Mo-Doping and Modification with Cobalt Polyoxometalate
15:20	15:35	Student Oral 4: **Shinichi Fujiwara** / Chuo University Convolutional Neural Network Prediction of the Photocurrent–Voltage Curve directly from Scanning Electron Microscopic Image for Hematite
15:35	15:50	Coffee Break
		Session III (Chair: Yuta Tsubonouchi)
15:50	16:05	Student Oral 5: **Philip Petzoldt** / Technical University of Munich The Benefits of Employing Surface Science in Photocatalysis
16:05	16:20	Student Oral 6: **Makoto Ogawa** / Kyoto University Flux-Assisted Synthesis of Layered Perovskite Oxyiodide for Improved Photocatalytic Water Oxidation under Visible Light
16:20	16:35	Student Oral 7: **Ren Itagaki** / Kyoto University Utilizing Water as an Electron Source for Organic Photoredox Catalysis with Phase-Migrating Electron Mediators in a Biphasic Solution
16:35	16:50	Coffee Break
		Session IV (Chair: Yasuomi Yamazaki)
16:50	17:05	Student Oral 8: **Dongseb Lee** / Kyushu University Improved Formate Selectivity and Reduced Hydrogen Evolution in Rhodium-Based Photocatalytic CO2 Reduction using Hydroxyl-Functionalized bpy Ligands
17:05	17:20	Student Oral 9: **Su Shu Zhang** / Huazhong University of Science and Technology Identifying and eliminating the interference of surface carbon residues with CO2 conversion on photocatalyst
17:20	17:35	Student Oral 10: **Kengo Nagatsuka** / Tokyo University of Science Photoelectrochemical Green Raw Materials Production from H2O and CO2 under Visible Light Irradiation Using Conductive Polymer/Metal Sulfide-Composited Photocathodes
17:35	17:50	Photo Session
17:50	20:00	**Poster Session**
Sunday, July 28, 2024		
9:30	9:40	Announcement of Award Winner and Celemony
		Session V (Chair: Takashi Nakazono)
9:40	10:00	Oral 3: **Mitsuo Shoji /** University of Tsukuba O-O bond formation promoted by a phenol radical in a ruthenium complex
10:00	10:20	Oral 4: **Yuta Tsubonouchi** / Niigata University Efficient intramolecular O-O bond formation promoted by diruthenium water oxidation catalysts with vicinal aquo and hydroxo groups
10:20	10:40	Oral 5: **Kiyoshi Miyata /** Kyushu University Ultrafast spectroscopy of Photoexcitation and One-Electron Reduction Processes of a CO2 Photoreduction Dyad Catalyst Having a Zinc(II) Porphyrin Photosensitizer
10:40	11:00	Coffee Break
		Session VI (Chair: Akinobu Nakada / Kiyoshi Miyata)
11:00	11:30	Invited Lecture 2: **Charles McCrory** / University of Michigan Electrochemical CO2 Reduction with Polymer-Catalyst Composites: Translating Polymer-Effects from Aqueous-Phase Batch Cells to Gas-Fed Flow Electrolyzers
11:30	12:00	Invited Lecture 3: **Haiming Zhu** / Zhejiang University Singlet Fission Enhanced Photocharge Generation at Organic/Inorganic Interface
12:00		Closing Remarks

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List of Poster Presentation (Persons with * symbol will be screened for Student Poster Award)

Poster 1	Improving BiVO4 as OEP for Z-scheme photocatalyst	**Yideng Shen***	The University of Adelaide
Poster 2	A Highly Stable Platinum(II)-Dimer-Based Photo-Hydrogen Evolving Molecular Device Showing Improved Visible Light Photocatalytic Activity	**Toma Kunikubo***	Kyushu University
Poster 3	Efficient Visible-Light-Driven Water Oxidation by a Carbon Nitride Modified with Cobalt Molecular Catalyst	**Yuki Tomita***	Kyushu University
Poster 4	Metal cation doping and surface treatment of Y2Ti2O5S2 photocatalytic particles for improved hydrogen evolution activity	**Riku Kumemoto***	Shinshu University
Poster 5	Visible-light-responsive photoanodes consisting of La5Ti2AgO7S5 particles doped with aliovalent metal cations for oxygen evolution reaction	**Shiino Otsuka***	Shinshu University
Poster 6	Electronic structures and relative stability and in the S2 state of the CaMn4O5 cluster of the OEC by DFT and CC calculations	**Koichi Miyagawa**	Osaka University
Poster 7	Redox Property of a New Dinuclear Co-NHC Catalyst for CO2 Reduction	**Koshiro Chiwata***	Kyushu University
Poster 8	Photo-induced Imine Reduction Catalyzed with an Artificial Photoredox Biocatalyst Constructed by Incorporation of a Xanthene Dye into a Protein Matrix	**Ryusei Kano***	Osaka University
Poster 9	Real-time observation of electron transfer in TiO2 photoanode modified with molecular ruthenium complexes anchored by pyridine ligands	**Masaya Yara***	Kyushu University
Poster 10	Modification of Cobalt-substituted Cytochrome P450 with a Photosensitizer toward Photoinduced Carbon Dioxide Reduction	**Taishu Kojima***	Osaka University
Poster 11	Determination of Turnover Frequency in Electrochemical Hydrogen Evolution from Water Catalyzed by a Co-NHC Complex	**Masanori Kan***	Kyushu University
Poster 12	Developing a Molecular-Based Photoelectrochemical Cell Consisting of Two Mesoporous TiO2 Electrodes for CO2 Reduction	**Yuki Goya***	Kyushu University
Poster 13	Highly Efficient Visible Light-Driven Photocatalytic CO2-to-HCOOH Conversion Using Earth-Abundant Metal Porphyrin and P10 Conjugated Polymer	**Sunghan Choi**	Hiroshima University
Poster 14	Particle Morphology Control of a Layered Oxyhalide Photocatalyst Toward Efficient Water Splitting Under Visible Light	**Yasutaka Soga***	Kyoto University
Poster 15	Controlling Carrier Dynamics of Bi-based Oxyhalide Photocatalysts via Introduction of Lanthanide Ions	**Yudai Furuta***	Kyoto University
Poster 16	Iridium (III) Complexes Introducing Arylborane Units With Aimed at CO2 Photoreduction Reaction	**Takuya Yokoo***	Nagasaki University
Poster 17	Factors determining quantum yield of photochemical reduced species of complexes	**Naoki Hosokawa***	Tokyo Institute of Technology

List of Extended Poster Discussion for Oral Speakers

ExPoster 1	High-Performance BiVO4 Photoanodes: Elucidating the Combined Effects of Mo-Doping and Modification with Cobalt Polyoxometalate	**Fan Feng**	Johannes Gutenberg University Mainz
ExPoster 2	Utilizing Water as an Electron Source for Organic Photoredox Catalysis with Phase-Migrating Electron Mediators in a Biphasic Solution	**Ren Itagaki**	Kyoto University
ExPoster 3	Identifying and eliminating the interference of surface carbon residues with CO2 conversion on photocatalyst	**Su Shu Zhang**	Huazhong University of Science and Technology
ExPoster 4	Improved Formate Selectivity and Reduced Hydrogen Evolution in Rhodium-Based Photocatalytic CO2 Reduction using Hydroxyl-Functionalized bpy Ligands	**Dongseb Lee**	Kyushu University
ExPoster 5	Flux-Assisted Synthesis of Layered Perovskite Oxyiodide for Improved Photocatalytic Water Oxidation under Visible Light	**Makoto Ogawa**	Kyoto University
ExPoster 6	Efficient visible-light-driven water oxidation on a Fe-doping SnOx layer deposited on a CuWO4 photoanode	**Tomohiro Katsuki**	Niigata university
ExPoster 7	Efficient intramolecular O-O bond formation promoted by diruthenium water oxidation catalysts with vicinal aquo and hydroxo groups	**Yuta Tsubonouchi**	Niigata University
ExPoster 8	Ligand-assisted fabrication of Transparent Mesoporous FeNiOx Films for Efficient Electrocatalytic Water Oxidation	**Xinyang Huang**	Niigata university
ExPoster 9	The Benefits of Employing Surface Science in Photocatalysis	**Philip Petzoldt**	Technical University of Munich
ExPoster 10	O-O bond formation promoted by a phenol radical in a ruthenium complex	**Mitsuo Shoji**	University of Tsukuba
ExPoster 11	Ultrafast spectroscopy of Photoexcitation and One-Electron Reduction Processes of a CO2 Photoreduction Dyad Catalyst Having a Zinc(II) Porphyrin Photosensitizer	**Kiyoshi Miyata**	Kyushu University
ExPoster 12	Introduction of Renewable Fuels to Japan: Concept and Current Situation	**Hiromu Kumagai**	The University of Tokyo
ExPoster 13	How can perovskite solar cells achieve long-term durability? Prediction and verification using density functional theory-based molecular modeling (DFT/MM)	**Shozo Yanagida**	Osaka University
ExPoster 14	Convolutional Neural Network Prediction of the Photocurrent−Voltage Curve directly from Scanning Electron Microscopic Image for Hematite	**Shinichi Fujiwara**	Chuo university
ExPoster 15	Photoelectrochemical Green Raw Materials Production from H2O and CO2 under Visible Light Irradiation Using Conductive Polymer/Metal Sulfide-Composited Photocathodes	**Kengo Nagatsuka**	Tokyo University of Science