

Program at a Glance

Day 1 (November 28)

10:00 - 10:05	Opening Remarks
10:05 - 10:50	<KL-1> Dr. Chia-Yu Lin (National Cheng Kung University, Taiwan)
10:50 - 11:20	<IL-1> Dr. Tomoaki Takayama (Nara Institute of Science and Technology, Japan)
11:20 - 11:50	<IL-2> Dr. Somboon Chaemchuen (Mahidol University, Thailand)
11:50 - 13:30	Lunch Break
13:30 - 14:50	Short Oral Presentation (Introduction of Poster Presentations)
14:50 - 16:10	Poster Presentation Odd number: 14:50-15:30 Even number: 15:30-16:10
16:10 - 16:20	Coffee Break
16:20 - 17:05	<KL-2> Prof. Dr. Tamao Ishida (Osaka Metropolitan University, Japan)
17:30 - 19:30	Banquet (Restaurant KASANE)

Day 2 (November 29)

9:30 - 10:30	<PL> Prof. Dr. Yutaka Amao (Osaka Metropolitan University, Japan)
10:30 - 10:40	Coffee Break
10:40 - 11:10	<IL-3> Dr. Sheela Chandren (Universiti Teknologi Malaysia, Malaysia)
11:10 - 11:55	<KL-3> Prof. Dr. Mali Hunsom (Mahidol University, Thailand)
11:55 -	Awards Ceremony for Poster Presentations Closing Remarks, Photo session

Program

November 28 (Day 1) 11 月 28 日 (1 日目)

10:00-10:05 Opening Remarks

10:05-10:50 Keynote Lecture 1

“Electrosynthesis of Nylon Monomeric precursors: Replacing Fossil-Based feedstocks with Renewable Alternatives”

Prof. Chia-Yu Lin (National Cheng Kung University, Taiwan)

10:50-11:20 Invited Lecture 1

“Design of Experimentally Active Electrocatalysts and Photocatalysts using Theoretical Calculation and Machine-Learning”

Dr Tomoaki Takayama (Nara Institute of Science and Technology, Japan)

11:20-11:50 Invited Lecture 2

“In Situ Thermal Solvent-Free Synthesis of Zeolitic Imidazolate Frameworks with High Crystallinity and Porosity for Effective Adsorption and Catalytic Applications”

Dr. Somboon Chaemchuen (Mahidol University, Thailand)

11:50-13:30 Lunch Break

13:30-14:50 Short Talk for Poster Presentation

14:50-16:10 Poster Session

Odd number: 14:50-15:30 Even number: 15:30-16:10

16:10-16:20 Coffee Break

16:20-17:05 Keynote Lecture 2

“Modification of Gold Nanoparticle Surface by Thin Metal-Oxides Layer Using Inorganic Nanosheets”

Prof. Tamao Ishida (Osaka Metropolitan University, Japan)

17:30-19:30 Banquet

Restaurant KASANE (Toyonaka Campus)

Poster Session List, November 28 (Day 1)

P-01	"Na ₂ Ti ₃ O ₇ -supported Ru catalyst for efficient low-temperature CO ₂ methanation and its application to a metal 3D-printed reactor", <u>Hyo-Jin Kim</u> , Takayoshi Nakano, Kohsuke Mori (Graduate School of Engineering, The University of Osaka)
P-02	"High-rate and selective conversion of low-concentration carbon dioxide from aqueous solutions to carbon monoxide using a carbon nanotube-supported molecular electrocatalyst", <u>Tzu-Hsuan Wang</u> (Department of Chemical Engineering, National Cheng Kung University)
P-03	"Improved Visible-Light-Driven O ₂ Evolution via Exposed-Layer Engineering and Site-Selective Cocatalyst Deposition on a Layered Oxyhalide Photocatalyst", <u>Yuuki Iida</u> , Hajime Suzuki, Osamu Tomita, Akinobu Nakada, Ryu Abe (Kyoto University)
P-04	"Photocatalytic conversion of CO ₂ using ammonium bicarbonate as a sacrificial reagent under irradiation with light above 300 nm", <u>Koki Kajiwara</u> ¹ , Shoji Iguchi ² , Shimpei Naniwa ² , Kentaro Teramura ^{2,3} (¹ Faculty of Engineering, Kyoto University, ² Graduate School of Engineering, Kyoto University, ³ Fukui Institute for Fundamental Chemistry, Kyoto University)
P-05	Photocatalytic reduction of CO ₂ using Co-14 membered ring complex in a homogeneous system", <u>Asuka Otani</u> ¹ , Shoji Iguchi ² , Shimpei Naniwa ² , Kentaro Teramura ^{2,3} (¹ Faculty of Engineering, Kyoto University, ² Graduate School of Engineering, Kyoto University, ³ Fukui Institute for Fundamental Chemistry, Kyoto University)
P-06	"Photooxidation of 4-pyridinemethanol over TiO ₂ photocatalysts", <u>Tsuyoshi Murakami</u> ¹ , Shimpei Naniwa ¹ , Shoji Iguchi ¹ , Kentaro Teramura ^{1,2} (¹ Graduate School of Engineering, Kyoto University, ² Fukui Institute for Fundamental Chemistry, Kyoto University)
P-07	"Oscillatory CO oxidation over Co-substituted SrTiO ₃ ", <u>Yuki Takeuchi</u> ¹ , Shimpei Naniwa ² , Shoji Iguchi ² , Kentaro Teramura ^{2,3} (¹ Faculty of Engineering, Kyoto University, ² Graduate School of Engineering, Kyoto University, ³ Fukui Institute for Fundamental Chemistry, Kyoto University)
P-08	"Dual roles of surface-supported Rh nanoparticles and isolated Pt species within high-entropy oxides in enhancing hydrogen evolution reaction driven by hydrogen spillover", <u>Shen Tianhan</u> , Kazuki Shun, Yasutaka Kuwahara, Kohsuke Mori (Graduate School of Engineering, The University of Osaka)
P-09	"Design of Dual-Responsive Polymer-Coated Hollow SiO ₂ Shells Encapsulating TiO ₂ Nanoparticles for Efficient Photodegradation of Bisphenol A", Elis Binti Osman ^{1,2} , Tomoo Mizugaki ¹ , Sheela Chandren ² , (¹ The University of Osaka, ² Universiti Teknologi Malaysia)
P-10	"Photocatalytic Production of Hydrogen Peroxide over Tungsten Oxide in the Presence of Glycerol", Kotone Oshima, Atsuhiko Tanaka, Hiroshi Kominami (Kindai University)
P-11	"Development of Photothermal Methane Reforming Systems using Ni/CeO ₂ Catalyst", Haochen Wang ¹ , Yuko Nishino ¹ , Akira Yamamoto ² , Hisao Yoshida ¹ (¹ Graduate School of Human and Environmental Studies, Kyoto University, ² Faculty of Science and Engineering, Kindai University)
P-12	"Photothermal Dry Reforming of Methane over Silica Coated Ru-Based Catalysts using Gap Reactors", <u>Yiling Hu</u> ¹ , Akira Yamamoto ² , Hisao Yoshida ¹ (¹ Graduate School of Human and Environmental Studies, Kyoto University, ² Faculty of Science and Engineering, Kindai University)
P-13	"Performance of copper catalysts supported on silicoaluminophosphate zeolites for methane partial oxidation", <u>Ryoya Kugo</u> and Sakae Takenaka (Doshisha University)
P-14	"Ni ₃ C Nanoparticle Catalyst for Selective Reductive Amination of Biomass-Derived Oxygenates into Diamines", <u>Shuichi Ikeda</u> , Kentaro Okano, Sho Yamaguchi (Kobe University)
P-15	"Reverse water-gas shift reaction using Co-substituted BaZrO ₃ ", <u>Syuei Yoshihara</u> ¹ , Shimpei Naniwa ² , Shoji Iguchi ² , Kentaro Teramura ^{2,3} (¹ Faculty of Engineering, Kyoto University, ² Graduate School of Engineering, Kyoto University, ³ Fukui Institute for Fundamental Chemistry, Kyoto University)
P-16	"Controlling photoabsorption of Au plasmonic photocatalysts through morphological changes", <u>Rikuto Sugiyama</u> , Atsuhiko Tanaka, Hiroshi Kominami (Kindai University)
P-17	"Modulating Carrier Dynamics in Bi-Based Oxyhalide Photocatalysts through Lanthanide Ion Introduction", <u>Yudai FURUTA</u> ¹ ; Hajime, SUZUKI ^{1,2} ; Osamu, TOMITA ¹ ; Akinobu, NAKADA ¹ ; Akinori, SAEKI ³ ; Ryu, ABE ¹ (¹ Grad. Sch. of Eng., Kyoto Univ. ² PRESTO/JST, ³ Grad. Sch. of Eng., Osaka Univ.)
P-18	"Electrolysis of aqueous nitrate using a Cu-14 membered ring complex cathode toward ammonia synthesis", <u>Ryotaro Iwata</u> ¹ , Shoji Iguchi ² , Shimpei Naniwa ² , Kentaro Teramura ^{2,3} (¹ Faculty of Engineering, Kyoto University, ² Graduate School of Engineering, Kyoto University, ³ Fukui Institute for Fundamental Chemistry, Kyoto University)
P-19	"Partial Oxidation of Methane with Oxygen into HCHO, CO and H ₂ over Highly Dispersed Copper Catalysts on Zeolites", <u>Rieko Nagase</u> , Sakae Takenaka (Doshisha University)
P-20	"Partial hydrogenation of alkynes using a photo-reduced Pd@Cu/TiO ₂ catalyst", <u>Mizuho Ogura</u> , Atsuhiko Tanaka, Hiroshi Kominami (Kindai University)
P-21	"Design of palladium-loaded covalent organic frameworks as efficient catalysts for hydrogenation of carbon dioxide to formic acid", <u>Shuntaro Tanaka</u> , Masaya Matsuoka, Takashi Kamegawa (Graduate School of Engineering Osaka Metropolitan University)
P-22	"Highly Efficient Deamination Catalyst for a New Ammonia Storage and Transportation System", <u>Akari Suehiro</u> , Takato Mitsudome, Tomoo Mizugaki (Graduate School of Engineering Science, The University of Osaka)

November 29 (Day 2) 11 月 29 日 (2 日目)

9:30-10:30 Plenary Lecture

“A Hybrid Catalytic System for the Synthesis of Plastic Precursors Based on Gaseous CO₂ Fixation by Visible Light Irradiation”

Prof. Yutaka Amao (Osaka Metropolitan University, Japan)

10:30-10:40 Coffee Break

10:40-11:10 Invited Lecture 3

“Waste-to-Resource Strategies for Photocatalytic and Membrane Filtration in Water Treatment Applications”

Dr. Sheela Chandren (Universiti Teknologi Malaysia, Malaysia)

11:10-11:55 Keynote Lecture 3

“Transforming Wastewater into Green Hydrogen: A Light-Driven Strategy”

Prof. Mali Hunsom (Mahidol University, Thailand)

11:55 Awards Ceremony for Poster Presentations

Closing Remarks, Photo session