List of Poster Presentations

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○Takashi Mihogi[1], Yuki Fujie[1], Yasutaka Kuwahara[1,2], Hiromi Yamashita[1,2]

(*[1]Graduate School of Engineering, Osaka University, [2] ESICB Kyoto University*)

"PdAg nanoparticles and poly(ethylenimine) encapsulated catalyst for carbon dioxide hydrogenation to formic acid"

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○Shimpei Naniwa[1], Akira Yamamoto[1,2], Hisao Yoshida[1,2]

(*[1] Graduate School of Human and Environmental Studies, Kyoto University, [2]ESICB Kyoto University)*

"Visible–light driven Minisci type reaction via photoexcitation of surface peroxide species on TiO_2"

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○ Shuying Wang[1], Kentaro Teramura[1,2], Hiroyuki Asakura[1,2], Saburo Hosokawa[1,2], Tsunehiro Tanaka[1,2]

(*[1]Graduate School of Engineering, Kyoto University, [2]ESICB Kyoto University*)

"Tuning the selectivity toward CO evolution in the photocatalytic conversion of CO_2 by H_2O through the modification of Ag-loaded $ZnTa_2O_6$ with Zn species"

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○Daichi Odagiri[1], Kojiro Fuku[2], Naoki Ikenaga[2]

(*[1]Graduate School of Science and Engineering, Kansai University, [2]Department of Chemical, Energy and Environmental Engineering, Faculty of Environmental and Urban Engineering, Kansai University*)

"Styrene oxidation on core-shell typed Au-$BiVO_4$@SiO_2 using hydrogen peroxide"

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○Masato Akatsuka, Yu Kawaguchi, Tetsuo Tanabe, Tomoko Yoshida

(*Osaka City University*)

"The low crystalline Ga_2O_3 photocatalyst for CO production from CO_2 with water"

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○Daiki Umemoto[1], Takeharu Yoshii[1], Yasutaka Kuwahara[1,2], Kohsuke Mori[1,2,3], Hiromi Yamashita[1,2]

(*[1]Graduate School of Engineering, Osaka University, [2]ESICB, Kyoto University, [3]JST PRESTO*)

"Preparation of pyrene-functionalized Pd nanocatalysts and enhancement of selectivity in semi-hydrogenation of alkynes"

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○Naoto Kaminade, Shinya Higashimoto
(*Faculty of Engineering, Osaka Institute of Technology*)

"$CuInS_2$ quantum dots solar cell using ionic liquid: An improvement of life-span of solar cell"

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○Naoki Tsuchiya[1], Akira Yamamoto[1,2], Hisao Yoshida[1,2]
([1]*Graduate School of Human and Environmental Studies, Kyoto University,* [2]*ESICB Kyoto University*)

"Infrared spectroscopy investigation of the adsorption and desorption behavior of hydrogen over supported platinum catalysts"

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○Taisei Akagi[1], Kojiro Fuku[2], Naoki Ikenaga[2]
([1]*Graduate School of Science and Engineering, Kansai University,* [2]*Department of Chemical, Energy and Environmental Engineering, Kansai University*)

"NiCuAl complex oxide catalysts derived from layered double hydroxide for hydrogen production from steam reforming of methanol"

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○Soichi Kikkawa[1], Kentaro Teramura[1,2], Hiroyuki Asakura[1,2], Tsunehiro Tanaka[1,2]
([1]*Graduate School of Engineering, Kyoto University,* [2]*ESICB Kyoto University*)

"CO_2 hydrogenation over isolated Pt atoms of Ni-Pt alloy"

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○Kazuki Hayami[1], Atsuhiro Tanaka[2,3], Hiroshi Kominami[2]
([1]*Graduate School of Science and Engineering, Kindai University,* [2]*Faculty of Science and Engineering, Kindai University,* [3]*JST PRESTO*)

"Hydrogen formation over copper species modified tungsten(VI) oxide under visible light irradiation"

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○Noriaki Endo, Osamu Tomita, Akinobu Nakada, Masanobu Higashi, Ryu Abe
(*Graduate School of Engineering, Kyoto University*)

"Water oxidation to hydrogen peroxide on bismuth oxyhalide photoelectrode under visible light"

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○Hirotaka Jida[1], Kohsuke Mori[1,2,3], Yasutaka Kuwahara[1,2], Hiromi Yamashita[1,2]
([1]*Graduate School of Engineering, Osaka University,* [2]*ESICB Kyoto University,* [3]*JST PRESTO*)

"Effect of the shape control of CoO_x/CeO_2 on PM combustion activity"

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○Taizo Kiyohiro[1], Akihiko Anzai[1], Akira Yamamoto[1,2], Hisao Yoshida[1,2]
(*[1]Graduate School of Human and Environmental Studies, Kyoto University, [2]ESICB Kyoto University*)
"Photocatalytic reduction of carbon dioxide with water over cation-doped calcium titanate"

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○Kazushi Iwamura[1], Kojiro Fuku[2], Naoki Ikenaga[2]
(*[1]Graduate School of Science and Engineering, Kansai University, [2]Department of Chemical, Energy and Environmental Engineering, Faculty of Environmental and Urban Engineering, Kansai University*)
"Hydrogen peroxide production from water and oxygen using Au-supported $BiVO_4$ photocatalyst"

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Cheng-Wei Chang[1], ○ Zi-Jie Gong[2,3], Nai-Chieh Huang[2,3], Cheng-Yu Wang[1], and Wen-Yueh Yu[2,3]
(*[1]Department of Materials Science and Engineering, National Chiao Tung University, [2]Department of Chemical Engineering, National Taiwan University, [3]Advanced Research Center for Green Materials Science and Technology*)
"Production of glycerol carbonate from transesterification of glycerol and dimethyl carbonate using MgO supported on ZIF-8 as acid-base catalysts."

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○Hiroki Kondo, Takato Mitsudome, Tomoo Mizugaki, Koichiro Jitsukawa
(*Graduate School of Engineering Science, Osaka University*)
"Selective carbon-carbon bond cleavage of primary alcohols using Pd/CeO_2 Catalyst"

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○Shinya Mine[1], Kenta Tatewaki[1], Takashi Toyao[2], Yu Horiuchi[1], Hidekazu Ikeno[1], Masaya Matsuoka[1]
(*[1]Graduate School of Engineering, Osaka Prefecture University, [2]Hokkaido University*)
"Experimental and theoretical investigation of hydrogen and oxygen evolution reactions on visible-light responsive MOF photocatalysts"

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○Eri Fudo[1], Atsuhiro Tanaka[2,3], Hiroshi Kominami[2]
(*[1]Graduate School of Science and Engineering, Kindai University, [2]Faculty of Science and Engineering, Kindai University, [3]JST PRESTO*)
"Water oxidation over gold plasmonic photocatalyst under visible light irradiation"

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○Takanori Takashima, Masanobu Higashi, Akinobu Nakada, Osamu Tomita, Ryu Abe
(*Graduate School of Engineering, Kyoto University*)

"Synthesis of visible-light-responsive photocatalysts $Bi_6MWO_{14}X$ (M = Nb, Ta; X = Cl, Br) and their application to water"

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○Masaya Morimoto, Shun Watanabe, Keita Taniya, Yuichi Ichihashi, Satoru Nishiyama
(*Graduate School of Engineering, Kobe University*)

"Effect of aluminium addition to Cu/HZSM-5 catalyst on selective oxidation of benzene"

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○Yuya Futamura[1], Kohsuke Mori[1,2,3], Hiromi Yamashita[1,2]
(*[1]Graduate School of Engineering, Osaka University, [2]ESICB Kyoto University, [3]JST PRESTO*)

"Effect of the surface basicity over the amine-functionalized catalysts for selective synthesis of deuterium gases from formic acid"

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○Daiki Fujimoto[1], Kojiro Fuku[2], Naoki Ikenaga[2]
(*[1]Graduate School of Science and Engineering, Kansai University, [2]Department of Chemical, Energy and Environmental Engineering, Faculty of Environmental and Urban Engineering, Kansai University*)

"Reductive hydrogen peroxide production on metallic co-catalyst supported WO_3"

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○Shun Mukai, Shinya Higashimoto
(*Faculty of Engineering, Osaka Institute of Technology*)

"Copper-indium-sulfide colloid-sensitized TiO_2 solar cell"

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○Ryota Ito[1], Masato Akatsuka[1], Akiyo Ozawa[1], Yuma Kato[1], Yu Kawaguchi[1], Muneaki Yamamoto[2], Tetsuo Tanabe[2], Tomoko Yoshida[2]
(*[1]Graduate School of Engineering, Osaka City University, [2]Advanced Research Institute for Natural Science, Osaka City University*)

"CO_2 reduction with water over metal oxides supported Ga_2O_3 photocatalysts"

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○Shota Imai[1], Kousuke Nakanishi[1], Atsuhiro Tanaka[2], Hiroshi Kominami[2]
(*[1]Graduate School of Science and Engineering, Kindai University, [2]Faculty of Science and Engineering, Kindai University*)

"Effects of structure and electronic state of core-shell cocatalyst on photocatalytic hydrogenation of alkyne"

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○Kazuhiro Takahashi, Miho Kimura, Takato Mitsudome, Tomoo Mizugaki, Koichiro Jitsukawa
(*Graduate School of Engineering Science, Osaka University*)
"Development of the highly efficient bimetallic nanoparticle catalyst for mild hydrogenation of amides to amines."

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○Masahiro Okada[1], Yasutaka Kuwahara[1,2], Hiromi Yamashita[1,2]
(*[1]Graduate School of Engineering, Osaka University, [2]ESICB Kyoto University*)
"Deoxygenation of ketones using reduced molybdenum oxide showing surface plasmon resonance and an enhanced catalytic activity under visible light"

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○Yuqiang Dai[1], Taiki Watanabe[1], Akira Yamamoto[1,2], Hisao Yoshida[1,2]
(*[1]Graduate School of Human and Environmental Studies, Kyoto University, [2]ESICB Kyoto University*)
"Support and particle size effect on the catalytic activity in carbon dioxide hydrogenation over supported platinum catalysts"

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○Yuki Okumura[1], Kojiro Fuku[2], Naoki Ikenaga[2]
(*[1]Graduate School of Science and Engineering, Kansai University, [2]Department of Chemical, Energy and Environmental Engineering, Kansai University*)
"Synthesis of propylene from ethanol over gallium oxide based-catalyst"

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○Kokoro Yoshioka[1], Muneaki Yamamoto[2], Yu Kawaguchi[1], Akiyo Ozawa[1,3], Tetsuo Tanabe[2], Tomoko Yoshida[2]
(*[1]Graduate School of Engineering, Osaka City University, [2]Advanced Research Institute for Natural Science and Technology, Osaka City University, [3]Corporate Research Laboratories, Research & Development Division, Sakai Chemical Industry, Co., Ltd.*)
"Effect of excitation photon energy on Ag loading state and CO_2 reduction activity of Ag/Ga_2O_3 photocatalyst"

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○Takuma Kimura, Masanobu Higashi, Akinobu Nakada, Osamu Tomita, Ryu Abe
(*Graduate School of Engineering, Kyoto University*)
"Development of efficient oxyhalide Bi_4NbO_8Cl photoanodes for water splitting under visible light irradiation"

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○Ziheng Yan, Keita Taniya, Yuichi Ichihashi, Satoru Nishiyama

(*Graduate School of Engineering, Kobe University*)

"Carbon deposition behavior in dry reforming of methane over alumina-supported Ni catalysts"

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○Yuxiao Zhang[1], Yasutaka Kuwahara[1,2], Kohsuke Mori[1,2,3], Hiromi Yamashita[1,2]

(*[1]Graduate School of Engineering, Osaka University, [2]ESICB Kyoto University, [3]JST PRESTO*)

"Ru supported on defect-rich 1T/2H MoS_2 as efficient photo-driven ammonia borane dehydrogenation catalyst"

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○Hitomi Imamura[1], Shimpei Naniwa[1], Akira Yamamoto[1,2], Hisao Yoshida[1,2]

(*[1]Graduate School of Human and Environmental Studies, Kyoto University, [2]ESICB Kyoto University)*

"Direct amination of benzene with aqueous ammonia using silica-coated TiO_2 photocatalysts"