

## Poster presentation/Short presentation

## Room F

July 25, Monday 14:30-16:30

14:30	P1004	Synthesis of primary anilines via acceptorless dehydrogenative aromatization catalyzed by supported Pd nanoparticles using NH <sub>3</sub> as a nitrogen source	Hui LI, Takafumi YATABE, Satoshi TAKAYAMA, Kazuya YAMAGUCHI	The University of Tokyo
14:35	P1006	Heterogeneously catalyzed selective decarbonylation of aldehydes by highly dispersed non-electron-rich Ni(0) nanospecies supported on CeO <sub>2</sub>	Takehiro MATSUYAMA, Takafumi YATABE, Tomohiro YABE, Kazuya YAMAGUCHI	The University of Tokyo
14:40	P1012	Reverse water gas shift reaction via chemical-looping on Cu modified In <sub>2</sub> O <sub>3</sub>	Sota KAKIHARA, Jun-ichiro MAKIURA, Takuma HIGO, Yuichiro HIRANO, Yasushi SATO, Yasushi SEKINE	Waseda University
14:45	P1023	Three-step synthesis of 1,3-Butanediol from Ethanol over heterogeneous and homogeneous catalysts.	Mahlet N. GEBRESILLASE, Jeong SEO	Hanyang University
14:50	P1026	Electroconversion of lower alcohols into value-added chemicals	Takumi HAKAMATA, Daisuke KAWAGUCHI, Shady ABDELNASSER, Miru YOSHIDA-HIRAHARA, Hitoshi OGIHARA, Hideki KUROKAWA	Saitama University
14:55	P1028	Uniform NiFeO <sub>x</sub> catalyst as a protective layer of transparent Ta <sub>3</sub> N <sub>5</sub> photoanode for efficient and stable oxygen evolution reaction	Yudai KAWASE, Tomohiro HIGASHI, Keisuke OBATA, Kazunari DOMEN, Kazuhiro TAKANABE	The University of Tokyo
15:00	P1036	Water splitting under visible light over a Z-scheme photocatalyst sheet using metal sulfide and BiVO <sub>4</sub> photocatalysts necked with a conductive polymer	Kengo NAGATSUKA, Shunya YOSHINO, Yuichi YAMAGUCHI, Akihiko KUDO	Tokyo University of Science
15:05	P1038	Development of metal complexes with various ligands as an electron mediator in Z-schematic water splitting under visible light irradiation	Kotaro WADA, Shunya YOSHINO, Yuichi YAMAGUCHI, Tomiko M. SUZUKI, Takeshi MORIKAWA, Akihiko KUDO	Tokyo University of Science
15:10	P1057	Solar water splitting over highly efficient powder-based Cu <sub>3</sub> VS <sub>4</sub> photocathode with 1.55 eV of a band gap	Hirofumi FUKAI, Kengo NAGATSUKA, Yuichi YAMAGUCHI, Akihiko IWASE, Akihiko KUDO	Japan Technological Research Association of Artificial Photosynthetic Chemical Process (ARPCHEM)
15:15	P1060	Improvement of photocatalytic activity of Ag-excess AgTaO <sub>3</sub> via HNO <sub>3</sub> treatment	Satoshi NAKAYAMA, Fumiaki AMANO	The University of Kitakyushu
15:35	P1064	Photocatalytic CO <sub>2</sub> reduction to CH <sub>4</sub> using H <sub>2</sub> O as an electron donor over a Pd-Ru-loaded NaTaO <sub>3</sub> :Sr photocatalyst	Suguru YAGIHASHI, Shunya YOSHINO, Yuichi YAMAGUCHI, Akihiko KUDO	Tokyo University of Science
15:40	P1065	Temperature dependence of photocatalytic water splitting under visible light irradiation using IrO <sub>x</sub> /SrTiO <sub>3</sub> :Rh,Sb sequentially loaded with metal cocatalysts	Erika KIKUCHI, Hiroaki NEMOTO, Shunya YOSHINO, Yuichi YAMAGUCHI, Akihiko KUDO	Tokyo University of Science
15:45	P1067	Hydrogen evolution from alcohol in aqueous suspension of tungsten oxide in the presence of oxygen and copper ion	Chihiro SHIBA, Kazuki HAYAMI, Atsuhiko TANAKA, Hiroshi KOMINAMI	Kindai University
15:50	P1068	Bromine substitution of organic modifiers fixed on a titanium(IV) oxide photocatalyst: A new strategy accelerating visible light-induced hydrogen-free hydrogenation of furfural to furfuryl alcohol	Hibiki TODA, Yuhei YAMAMOTO, Atsuhiko TANAKA, Hiroshi KOMINAMI	Kindai University
16:00	P1085	Synthesis of CoAl mixed oxide nanocomposite catalyst derived from layered double hydroxides: Application for aerobic alcohol oxidation	Febi YUSNIYANTI, Takayoshi HARA, Nobuyuki ICHIKUNI	Chiba University
16:05	P1088	Lithium-based silicates Li <sub>2</sub> CaSiO <sub>4</sub> and Li <sub>4</sub> SiO <sub>4</sub> as highly active catalysts for the oxidative coupling of methane	Tomohiro MATSUMOTO, Satoshi ISHIKAWA, Miwa SAITO, Wataru UEDA, Teruki MOTOHASHI	Kanagawa University
16:10	P1089	Pt-Cu bimetallic catalysts supported on alumina with worm-like-structured mesopore for n-butane dehydrogenation	Yuki OSHIMA, Seiji KUCHIKI, Miru HIRAHARA, Hitoshi OGIHARA, Hideki KUROKAWA	Saitama University
16:15	P1090	n-Pentane dehydrogenation over supported Pt catalysts - Effects of co-fed gas-	Misuzu KOMURO, Takayuki URAKAWA, Honoka ANEZAKI, Miru HIRAHARA, Hitoshi OGIHARA, Hideki KUROKAWA	Saitama University
16:20	P1032	Synthesis of narrow bandgap GaN-ZnO solid-solutions exposing characteristic facets and their photocatalytic activity	Natsutogi IWASA, Zhenyuan TENG, Guijun MA, Takashi HISATOMI, Kazunari DOMEN	Shinshu University
16:25	P1100	Fabrication of novel MnO <sub>2</sub> nanostructures decorated with tin nanoparticles for high performance visible light driven photocatalyst	Kaviyarasu KASINATHAN, S. PANIMALAR, R. UTHRAKUMAR, C. INMOZHI, M. MAAZA	University of South Africa

July 26, Tuesday 13: 30-15:05

13:30	P2006	Selective oxidation of furfural to succinic acid over Lewis acidic Sn-Beta	<u>Yayati-Naresh PALAI</u> , Abhijit SHROTRI, Atsushi FUKUOKA	Hokkaido University
13:35	P2022	Synthesis of 2-imidazolidinone from ethylenediamine carbamate by CeO <sub>2</sub> catalyst without external CO <sub>2</sub> addition	<u>Shogen MIHARA</u> , Jie PENG, Masazumi TAMURA, Mizuho YABUSHITA, Ryotaro FUJII, Yoshinao NAKAGAWA, Keichi TOMISHIGE	Tohoku University
13:40	P2023	Intramolecular cycloamination of primary amines using gold nanoparticles deposited on fibrillated citric acid-modified cellulose	<u>Butsaratip SUWATTANANURUK</u> , Yuta UETAKE, Hidehiro SAKURAI	Osaka University
13:45	P2038	Bifunctional catalytic <i>N</i> -formylation of amine using CO <sub>2</sub> over metal-oxide-cluster-derived catalyst	<u>Vorakit CHUDATEMIYA</u> , Soichi KIKKAWA, Jun HIRAYAMA, Ryo TAKAHATA, Toshiharu TERANISHI, Seiji YAMAZOE	Tokyo Metropolitan University
13:50	P2049	Towards stable aromatics production at high pressure in methanol conversion	<u>Tuiana-Bairovna SHOINKHOROVA</u> , Adrian RAMIREZ, Tomas CORDERO-LANZAC, Sang-ho CHUNG, Javier RUIZ-MARTINEZ, Jorge GASCON	King Abdullah University of Science and Technology
13:55	P2057	In-situ DRIFTS analysis of Sb promoted vanadia-titania catalysts	<u>Alexander NELLESEN</u> , Andreas SCHAEFER, Anna MARTINELLI, Per-Anders CARLSSON	Chalmers University of Technology
14:00	P2064	Characteristic of graphene-modified indium cadmium sulfide photocatalyst for water splitting hydrogen production	Yi-Hui LI, <u>Zhuan-Ping DONG</u> , Yu-Ching WENG	Feng Chia University
14:05	P2070	Synthesis of unsaturated dicarboxylic acid from CO <sub>2</sub> and pyruvate with malate dehydrogenase and fumarate hydratase	<u>Mika TAKEUCHI</u> , Masanobu HIGASHI, Yutaka AMAO	Graduate School of Science, Osaka City University
14:10	P2071	Microkinetics and mechanism of electrocatalytic CO <sub>2</sub> reduction into CO over molecular complexes loaded gas-diffusion electrodes	<u>Xiaofei LU</u> , Busra DERELI, Tatsuya SHINAGAWA, Luigi CAVALLO, Kazuhiro TAKANABE	The University of Tokyo
14:15	P2075	Screening ternary Pt-based catalysts for oxygen reduction reaction by scanning electrochemical microscopy	Xin-Ren WENG, <u>Wei-Ming CHEN</u> , Yu-Ching WENG	Feng Chia University
14:30	P2076	Electrospinning of Au Nanoparticles/ Carbon Nanofibers for Acetaminophen Sensor	Zhao-Nan WANG, <u>Ting-Yu YANG</u> , Yu-Ching	Feng Chia University
14:35	P2077	Optimization of Pd-based Catalyst for Formic Acid Oxidation	<u>Chieh-Lin CHIANG</u> , Yu-Ching WENG	Feng Chia University
14:40	P2081	Computational prediction of support activation by the electron scavenger effect	<u>Yoyo HINUMA</u> , Takashi TOYAO, Nobutsugu HAMAMOTO, Shinya MINE, Zen MAENO, Takashi KAMACHI, Ken-ichi SHIMIZU	National Institute of Advanced Industrial Science and Technology (AIST) / Tokyo Institute of Technology
14:45	P2083	Governing factors on surface hydrogen over heterocation-doped CeO <sub>2</sub>	<u>Hiroshi SAMPEI</u> , Kota MURAKAMI, Atsushi ISHIKAWA, Takuma HIGO, Hideaki TSUNEKI, Hiromi NAKAI, Yasushi SEKINE	Waseda University
14:50	P2090	Fast catalyst screening method using a universal neural network potential	<u>Yoshihiro YAYAMA</u> , Takuya UGAJIN, Taku WATANABE	ENEOS Corporation
14:55	P2091	Technology for controlling active sites of industrial supported metal catalysts	<u>Kazuki NAKAJIMA</u> , Yusuke MATSUMOTO	JGC Catalysts and Chemicals Ltd.
15:00	P2040	Catalytic activity of mesostructured Cu doped TiO <sub>2</sub> for thermal oxidation of ethylene	<u>Rajendran KARUPPUSAMY</u> , Dinesh JAGADEESAN, Deepak Krishnan BALAJI, Ankit D. TIWARI	Indian Institute of Technology Palakkad

July 27, Wednesday 13:30-15:10

13:30	P3001	Effects of surface proton coverage over support on catalytic ammonia synthesis in an electric field	Sae DOI, Yuta TANAKA, Kota MURAKAMI, Kazuharu ITO, Yuta MIZUTANI, Koki SAEGUSA, Takuma HIGO, Hideaki TSUNEKI, Yasushi SEKINE	Waseda University
13:35	P3003	Humic acid decomposition by $\gamma$ -irradiation - a promising strategy for catalyst regeneration	Natalia S. MEDINA, Benjamin KATRYNIOK, Jean-Sebastien GIRARDON, Isabelle HABLLOT, Philippe GUILBAUD, Laurent VENAULT, Stephanie CORNET, Vincent PACARY	University of Lille
13:40	P3006	Low-temperature electric field-enhanced carbon dioxide sorption on eutectic mixture-promoted magnesium oxide	Monica-Louise-Tekiko TRIVINO, Yasushi SEKINE, Jeong Gil SEO	Hanyang University
13:45	P3014	Electron-enriched single-atom Pt in Pb-Ca-decorated PtGa intermetallics as a selective and stable catalyst for propane dehydrogenation	Yuki NAKAYA, Ken-ichi SHIMIZU, Shinya FURUKAWA	Hokkaido University
13:50	P3025	Low-temperature synthesis of britholite-(La) fluorosilicate via co-precipitation method	Thanyarat PHUTTHAPHONGLOET, Yuta UETAKE, Naoyoshi NUNOTANI, Nobuhito IMANAKA, Hidehiro SAKURAI	Osaka University
13:55	P3030	Deposition of highly dispersed gold nanoparticles onto metal phosphates by deposition-precipitation with aqueous ammonia	Hidenori NISHIO, Hiroki MIURA, Testuya SHISHIDO	Tokyo Metropolitan University
14:00	P3040	Influence of the potassium introduction method on activity in ammonia synthesis of cobalt molybdenum nitrides deposited on gamma-alumina	Artur JURKOWSKI, Agnieszka WOJCIECHOWSKA, Aleksander ALBRECHT, Pawel ADAMSKI, Dariusz MOSZYNSKI	West Pomeranian University of Technology
14:05	P3042	First observation of surface protonics on SrZrO <sub>3</sub> under H <sub>2</sub> atmosphere via electrochemical impedance spectroscopy measurement	Taku MATSUDA, Yudai HISAI, Kota MURAKAMI, Shuhei OGO, Truls NORBY, Yasushi SEKINE	Waseda University
14:10	P3045	Synthesis of supported Au@Pd core@shell nanoparticles with thin Pd shell thickness and their stability in catalysis	Yanyue FENG, Andreas SCHAEFER, Mengqiao DI, Hanna HÄRELIND, Mattias BAUER, Per-Anders CARLSSON	Chalmers University of Technology
14:15	P3061	Direct conversion of syngas to branched C <sub>4</sub> hydrocarbons via Fischer-Tropsch synthesis	Yingluo HE, Guohui YANG, Noritatsu TSUBAKI	University of Toyama
14:30	P3063	Catalysts formulation for the direct conversion of crude oil to chemicals	Tuiana-Bairovna SHOINKHOROVA, Mohammed ALABDULLAH, Alla DIKHTIARENKO, Alberto RODRIGUEZ-GOMEZ, Jullian VITTENET, Ola S. ALI, Isidoro MORALES-OSORIO, Wei XU, Jorge GASCON	King Abdullah University of Science and Technology
14:35	P3071	Hydrogen storage and release characteristics of light cycle oil over platinum catalyst for LOHC systems	Jinho OH, Hyojeong PARK, Thanh-Binh NGUYEN, Jung Kyoo LEE	Dong-A University
14:40	P3080	Partial oxidation of methane with hydrogen peroxide using iron complexes encapsulated into zeolite	Maho SHIMADA, Shuhei YAMAGUCHI, Hidenori YAHIRO	Ehime University
14:45	P3081	Direct hydroxylation of benzene with hydrogen peroxide using Fe complexes encapsulated into mesoporous zeolite	Yuito ISHIDA, Hitomu KOGA, Syuhei YAMAGUCHI, Hidenori YAHIRO	Ehime University
14:50	P2043	Kinetic analysis of oxidation of arsenite in water using a plug-flow reactor filled with platinum catalyst	Hirofumi KONDO, Takayuki URATA, Kazumasa OSHIMA, Tsuyoshi YAMAMOTO, Masahiro KISHIDA	Kyushu University
14:55	P2024	Aerobic oxidative cleavage of 2-hydroxycyclohexanone to 2-hydroxyadipic acid	Koki HASHIMOTO, Yoshinao NAKAGAWA, Mizuho YABUSHITA, Keiichi TOMISHIGE	Tohoku University
15:00	P1024	Vapor-phase dehydration of 1,4-butanediol using cerium oxide catalyst	Kairi ONODERA, Yosuke NAKAJI, Mizuho YABUSHITA, Yoshinao NAKAGAWA, Keiichi TOMISHIGE	Tohoku University
15:05	P1025	Hydrogenolysis of tetrahydrofuran-2-carboxylic acid over tungsten-modified rhodium catalyst	Kota HASAMA, Takehiro ASANO, Yoshinao NAKAGAWA, Masazumi TAMURA, Mizuho YABUSHITA, Keiichi TOMISHIGE	Tohoku University