May 15 (mon.)

	Room A	Room B	Room C	Room D
9:25-9:30	Opening Remarks			
Chair	K-YL01			
9:30-10:20	YL 01: Chemistry is a Central Science & Catalysis is a Central Chemistry (Tokyo Inst. of Technol., NITE) Takashi Tatsumi			
Chair	JA1, KA1	JB1, KB1	JC1, KC1	JD1, KD1
10:20-10:35	YO A01: Low Temperature Catalytic Methane Steam Reforming by Surface Protonics (Waseda Univ.) Ryo Manabe, Shigeki Okada, Reona Inagaki, Shuhei Ogo, Yasushi Sekine	YO B01: The size-engineered graphene nanosheets as support for Pd catalysts and its application to electrooxidation of alcohols (POSTECH) Yuseong Noh, Changmin Lee, Hyunsu Han, Yoongon Kim, Won Bae Kim	YO C01: Low temperature catalytic ammonia synthesis in an electric field (Waseda Univ.) Kota Murakami, Hideaki Nakatsubo, Ryo Manabe, Shuhei Ogo, Hideki Tsuneki, Masatoshi Ikeda, Yasushi Sekine	YO D01: Enhanced Hydrogenation of Cinnamaldehyde by Twin Au Nanoparticles (Nagoya Univ.) Mizuki Hattori, Taiki Koketsu, Junya Ohyama, Kyoichi Sawabe, Yuta Yamamoto, Shigeo Arai, Atsushi Satsuma
10:35-10:50	YO A02: Sulfur-stabilized PtFe nanocatalyst for oxygen reduction reaction in PEMFC (Sungkyunkwan Univ.) Dae Jong You, Chanho Pak and Ji Man Kim	YO B02: The size-engineered graphene nanosheets as support for Pd catalysts and its application to electrooxidation of alcohols (Osaka Prefecture Univ.) Yu Horiuchi, Nana Ueno, Masaya Matsuoka	YO C02: One-componet and Non-ionic Cr-, Mo-, W-based Catalysts for Conversion of CO_2 and Epoxides into Cyclic Carbonates (Chungbuk National Univ.) Yoseph Kim, Woolee Cho, Min Kim, Youngjo Kim	YO D02: Amino Acid-aided Synthesis of High Surface Area Hexagonal $SrMnO_3$ Catalyst for Aerobic Oxidation (Tokyo Inst. of Technol.) Kosei Sugahara, Keigo Kamata, Satoshi Muratsugu, Michikazu Hara
10:50-11:10	Coffee Break			
11:10-11:25	YO A03: The Catalytic Dehydrogenation and Process Optimization of Propane to Propylene on Various Catalyst (Inha Univ.) Yehwon Lee, Kyujoon Park, Jihye Yu, Geonjoong Kim	YO B03: Visible-light-induced vectrial electron transfer at $Ru(bpy)_3$ intercalated alternately stacked titanate nanosheets and tungstate nanosheets (Tokyo Inst. of Technol.) Fuminao Kishimoto, Shuntaro Tsubaki, Eiichi Suzuki, Yuji Wada	YO C03: Design of Cerium Promoted Cu/SiO_2 Catalysts for Selective Hydrogenation of Dimethyl Oxalate to Ethanol (Toyama Univ.) Peipei Ai, Minghui Tan, Noritatsu Tsubaki	YO D03: Effect of controlled silylation deposition of SSZ-13 catalyst for ethylene-to-propylene reaction (Korea Res. Inst. of Chem. Technol.) Nanah Kim, Joon-Wan Kim, Tae-Wan Kim, Jong-Won Jun, Chul-Ung Kim, Yongju Jung
11:25-11:40	YO A04: Low-temperature Catalytic Oxidative Coupling of Methane over Supported Heteropolytungstate Catalysts in an Electric Field (Waseda Univ.) Ayaka Sato, Shuhei Ogo, Kousei Iwasaki, Kei Sugiura, Yasushi Sekine	YO B04: Photoelectrochemical hydrogen production using CdS nanoparticles potodeposited onto Li-ion-inserted titania nanotube arrays (Kyungpook National Univ.) Unseock Kang, Kyu Jun Park, Hyunwoong Park	YO C04: Catalytic Hydrodeoxygenation of Sawdust Pyrolysis Oil using the Fixed-Bed Continuous Reactor (Korea Inst. of Sci. and Technol.) Gayoung Kim, Jang Woo Seo, Kwan-Young Lee	YO D04: Preparation of Single-Site Co Catalyst from Co(salen) Complex and Carbon Materials (Osaka Univ.) Kazuki Nakatsuka, Takeharu Yoshii, Yasutaka Kuwahara, Kohsuke Mori, Hiromi Yamashita.

11:40-11:55	YO A05: Zeolite-stabilized Rhodium Sub-Nano Cluster Catalyst for Low Temperature Oxidation of Methane (Hokkaido Univ.) Yuhui Hou, Hirokazu Kobayashi, Atsushi Fukuoka	YO B05: Synthesis of a gold cluster-modified LDH nanosheet electrocatalyst for oxygen evolution reaction (Kyushu Univ.) Sho Kitano, Masaaki Sadakiyo, Miho Yamauchi	YO C05: Selective Hydrogenolysis of Tetrahydrofurfuryl Alcohol over Supported Pt Catalysts (Tokyo Metropolitan Univ.) Shixiang Feng, Aiko Nagao, Hiroki Miura, Tetsuya Shishido	YO D05: Evaluation of catalytic performance of methylated nitrogen-substituted mesoporous silica for synthesis of cyclic carbonate (The Univ. of Tokyo) Kiyoyuki Yamazaki, Masaru Ogura
11:55-12:10	YO A06: Catalytically Active Species for Methylation of Benzene with Methane on Co/ZSM-5 Zeolite (Tottori Univ.) Koshiro Nakamura, Hitoshi Matsubara, Etsushi Tsuji, Kazu Okumura, Satoshi Suganuma, Naonobu Katada	YO B06: Photocatalytic Methanol Dehydrogenation by Platinum-loaded Titania Particles Prepared from Evonik P25 (Hokkaido Univ.) Kunlei Wang, Bunsho Ohtani, Ewa Kowalska	YO C06: Production of Phenolic Hydrocarbons by Catalytic Depolymerization of Organosolv Lignin (Korea Inst. of Sci. and Technol.) Deokwon Son, Minsun Kim, Jae-Wook Choi, Jungkyu Choi	YO D06: Synthesis of Mn-substituted Barium Hexaaluminates by Homogeneous Precipitation Method (Chungnam National Univ.) Ji Yun Park, You Shick Jung, Kyung Woo Lee and Young Woo Rhee
12:10-13:30	Lunch			
Chair	JA2, KA2	JB2, KB2	JC2, KC2	JD2, KD2
13:30-13:45	YO A07: Development of Nickel Catalysts using Spinel Type Oxides for Dry Reforming of Methane (The Univ. of Tokyo) Jihan Lee, Fumito Otsuka, Ryuji Kikuchi, Atsushi Takagaki, S. Ted Oyama	YO B07: CO_2 adsorption states affected by Ag co-catalyst over Ga_2O_3 photocatalyst (Nagoya Univ.) Muneaki Yamamoto, Shinya Yagi, Tomoko Yoshida	YO C07: One-pot Green Synthesis of Flavones Using Gold Nanoparticles Supported on Layered Double Hydroxides (The Univ. of Tokyo) Takafumi Yatabe, Xiongjie Jin, Kazuya Yamaguchi, Noritaka Mizuno	YO D07: Size- and shape-controlled Rh nanoparticles synthesized via microwave assisted-alcohol reduction method and their activity in CO oxidation (Oita Univ.) Yoshihide Nishida, Katsutoshi Sato, Katsutoshi Nagaoka
13:45-14:00	YO A08: Modeling for combined steam and carbon dioxide reforming of methane (Chonnam National Univ.) Heekyoung Ryoo, Sharon Jo	YO B08: Reduced graphene oxide and metal-organic frameworks composites for photocatalytic water oxidation (Osaka Prefecture Univ.) Zakary Lionet, Yusuke Kamata, Shun Nishijima,Yu Horiuchi, Masaya Matsuoka	YO C08: Catalytic upgrading of bio-tar over Mg-Ni-Mo/activated charcoal catalyst in supercritical ethanol (Korea Inst. of Energy Res., Korea Univ.) Jin-Hyuk Lee, Wonjin Jeon	YO D08: A Study of Cobalt Titanate Perovskite as Oxygen Carrier for Chemical Looping Combustion (Chonbuk National Univ.) Jong Ha Hwang, Eun Nam Son, Roosse Lee, Soo Hyun Kim, Jeom In Baek, Ho Jung Ryu
14:00-14:15	YO A09: Auto-thermal reforming property of Ni-based structured catalyst for dry reforming of methane (Shizuoka Univ.) Kazuaki Hirao, Wataru Kawasaki, Kohno Yoshiumi, Ryo Watanabe, Choji Fukuhara	YO B09: Behavior of Photogenerated Charge Carriers in $BiVO_4$ Based Heterojunctions (Toyota Technological Inst.) Chandana Sampath Kumara Ranasinghe, Akira Yamakata	YO C09: Synthesis and Application of Oxygenated Carbon Catalyst for Cellulose Hydrolysis in a Slurry Process (Hokkaido Univ.) Abhijit Shrotri, Hirokazu Kobayashi, Atsushi Fukuoka	YO D09: Efficient conversion of C4 unsaturated alcohols to 1,3-butadiene (Chiba Univ.) Daolai Sun, Yasuhiro Yamada, Satoshi Sato

14:15-14:30	YO A10: Study of pretreatment effect on propane dehydrogenation catalyst (Hankyong Univ.) Jaewon Jung, Hakbeum Lee	YO B10: Facet-dependent Deposition of Metal Particles and their Stability on Decahedral-shaped Titania Particles (Hokkaido Univ.) Kenta Kobayashi, Mai Takashima, Mai Takase, and Bunsho Ohtani	YO C10: Effect of Carbon Supports on RuRe Bimetallic Catalysts for Effective Hydrodeoxygenation of Lignin Pyrolysis Oils (Yonsei Univ.) Kyung Bin Jung, Chul-Ho Jun, Dong Jin Suh, Jungho Jae	YO D10: Facile Preparation of HNb_3O_8 Nanosheet with More Acid Sites (Hanyang Univ.) Jongha Park, Young-Woong Suh
14:30-14:45	YO A11: Effect of sulfation treatment to transition metal oxide on propane dehydrogenation property (Shizuoka Univ.) Nozomu Hirata, Ryo Watanabe, Akinori Maezawa, Yoshiumi Kohno, Choji Fukuhara	YO B11: Surface modification of P25 using low temperature facile synthesis method via microwave irradiation (Inha Univ.) Eunji Han, Daejun Oh, Haewon Ryu, Young-Kwon Park, Ki-Joon Jeon	YO C11: Co-catalysis of ReOx-Au/CeO_2 and ReOx/C in Hydrogenolysis of 1,4-Anhydroerythritol to 1,4-Butanediol (Tohoku Univ.) Tianmiao Wang, Sibao Liu, Masazumi Tamura, Yoshinao Nakagawa, and Keiichi Tomishige	YO D11: Conversion of Amides to Esters via Selective Cleavage of Amide C–N Bonds over a CeO_2 Catalyst (Hokkaido Univ.) Md. Nurnobi Rashed, S.M.A.H. Siddiki, Takashi Toyao, Ken-ichi Shimizu
14:45-15:00	YO A12: Phosphorus-modified ordered mesoporous $CoAlO_x$ mixed oxides for Fischer-Tropsch synthesis (Sungkyunkwan Univ.) Yong Min Park, Jong Wook Bae	YO B12: Insights into the role of Ba species on TiO_2 for photocatalytic NO_x storage process. (Kyoto Univ.) Kazuki Tamai, Saburo Hosokawa, Hiroyuki Asakura, Kentaro Teramura, Tsunehiro Tanaka	YO C12: Conversion of propylene oxide to cyclic propylene carbonate in CO_2 over heterogeneous catalysts (Chonnam National Univ.) Daeho Kim, Kyungsu Na	YO D12: FT-IR study of behavior of acidic hydroxyl groups on zeolites at high temperatures (Tokyo Inst. of Technol.) Ryota Osuga, Toshiyuki Yokoi, Junko N. Kondo
15:00-15:20	Coffee Break			
Chair	Prof. Kiyotaka Asakura (Hokkaido Univ.)			
15:20-16:10	YL 02: Durable & high performance PEM catalyst design (Yonsei Univ.) Yong-Gun Shul			
Chair	JA3, KA3	JB3, KB3	JC3, KC3	JD3, KD3
16:10-16:25	YO A13: Dehydrogenation of 1-Butene over Pt/SnO_2-SiO_2 Catalysts in the Presence of Steam (Saitama Univ.) Daiki Sampei, Mitsuhiko Sato, Miru Hirahara, Masa-aki Ohshima, Hideki Kurokawa, Hiroshi Miura	YO B13: Property of Ni-SDC Anodes for SOFC with H_2 and NH_3 Fuels (Ehime Univ.) Jian Cui, Naoto Ito, Yoshiteru Itagaki, Syuhei Yamaguchi, Hidenori Yahiro	YO C13: Imido Vanadium(V)-Alkylidene Complexes for Olefin Metathesis Polymerization (Tokyo Metropolitan Univ.) Sapanna Chaimongkolkunasin, Xiaohua Hou, Kotohiro Nomura	YO D13: Synthesis of Porous Titania Powders by Self-assembly for Water Purification (Korea Polytechnic Univ.) Young-Sang Cho

16:25-16:40	YO A14: Propane dehydrogenation over platinum and iron loading zeolite (Waseda Univ.) Ryosuke Ushiki, Hoshino Hiroyoshi, Masahiko Matsukata	YO B14: Electrochemical hydrogenation of toluene to methylcyclohexane by non-Pt cathode in the hydrogen storage system (Tokyo Inst. of Technol.) Yuta Inami, Hitoshi Ogihara, Ichiro Yamanaka	YO C14: Catalytic Activity of AlF3 Nano-Structure for Hydrolysis of NF3 (Yeungnam Univ.) Yong Han Jeong, No-Kuk Park, Tae Jin Lee, Won Chul Chang	YO D14: Effect of starting materials on Al distribution of the CHA-type aluminosilicate zeolites (Tokyo Inst. of Technol.) Toshiki Nishitoba, Junko N. Kondo, Toshiyuki Yokoi
16:40-16:55	YO A15: Effective hydrogen by propane steam reforming over M/NiO/YSZ catalyst (M = Ru, Rh, Pd, Ag) (Yeungnam Univ.) Yonghwan Im, Misook Kang	YO B15: Exploring New Metal Catalysts with High Catalytic Activity on SOEC Electrode for High Temperature Steam/CO_2 Co-electrolysis (Univ. of Seoul) Ara Cho, Jeonghyun Ko, Byung-Kook Kim, Jongsup Hong, and Jeong Woo Han	YO C15: Synthesis of Ultrahigh Molecular Weight Poly(alfa-olefin)s by Half Titanocene Catalysts (Tokyo Metropol. Univ.) Sarntamon Pengoubol, Kotohiro Nomura	YO D15: The effect of acidity on Ni catalyst supported on P modified Al_2O_3 for the dry reforming of methane (Chungbuk National Univ.) Seonu Bang, Sung Woo Baek
16:55-17:10	YO A16: CuO_x and Ag Supported on Al_2O_3 for Catalytic Ammonia Combustion (Kumamoto Univ.) Satoshi Hinokuma, Yusuke Kawabata, Shun Matsuki, Saaya Kiritoshi, Masato Machida	YO B16: Effect of Al_2O_3 Crystalline Phase on Methane Combustion over Pd/Al_2O_3 (Nagoya Univ.) Kazumasa Murata, Yuji Mahara, Junya Ohyama, Atsushi Satsuma	YO C16: Synthesis of 2,5-Furandicarboxylic Acid using Molecular Oxygen by a Manganese Dioxide Catalyst (Tokyo Inst. of Technol.) Eri Hayashi, Tasuku Komanoya, Keigo Kamata, Michikzu Hara	YO D16: Catalytic Property of Silica-Supported 12-Tungstophosphoric Acid Modified with Organosilanes (Hokkaido Univ.) Wontae Kim, Ryoichi Otomo, Yuichi Kamiya
17:15-18:45	Youth Poster Session			
19:30	Youth Party			

May 16 (Thu.)

	Room A	Room B	Room C	Room D
Chair	JA4, KA4	JB4, KB4	JC4, KC4	JD4, KD4
9:15-9:30		YO B17: Light-induced Preparation of Multi-component Cocatalyst for Photocatalytic Water Splitting (Tokyo Inst. of Technol.) Tomoki Kanazawa, Kazuhiko Maeda	YO C17: Aerobic Oxidative Trifluoromethylation of Arenes Catalyzed by Phosphovanadomolybdic Acids (The Univ. of Tokyo) Chifeng Li, Kosuke Suzuki, Kazuya Yamaguchi, Noritaka Mizuno	YO D17: Suppressing Pt sintering by physical and chemical stabilization: highly regenerable PtGa/Al_2O_3 catalyst (KAIST) Juhwan Im, Minkee Choi
9:30-9:45	YO A17: High Utilization of Methanol in Toluene Methylation Using an MFI Nanosheet Catalyst (KAIST) Changq Lee, Wookdong Kim, Woojin Park, Ryong Ryoo	YO B18: Omi-directional Engineered $ZnFe_2O_4$ Photoanode for Solar Water Splitting (UNIST) Ju Hun Kim, Jae Sung Lee	YO C18: Demethoxylation of 2-methoxycyclohexanone over noble metal catalyst without external hydrogen (Tohoku Univ.) Akari Miyagawa, Yoshinao Nakagawa, Masazumi Tamura, Keiichi Tomishige	YO D18: Effect of pore structure of TiO_2 on the SO_2 poisoning over V_2O_5/TiO_2 catalysts for selective catalytic reduction of NO_x (Seoul National Univ.) Seunghee Youn, Inhak Song, Hwangho Lee

9:45-10:00	YO A18: Dynamic Chemical State Conversion of Nickel Species Supported on Silica under CO-NO Reaction Conditions (Ritsumeikan Univ.) Shohei Yamashita, Misaki Katayama and Yasuhiro Inada	YO B19: Visible-Light CO_2 Reduction Using Carbon Nitride and Metal Complex Hybrid Photocatalysts (Tokyo Inst. of Technol.) Ryo Kuriki, Osamu Ishitani, Kazuhiko Maeda	YO C19: Effect of Methane Co-Feeding on Product Selectivity of Lignin Pyrolysis (Univ. of Seoul) Hoda Shafaghat, Young-Kwon Park	YO D19: Preparation of boroaluminosilicate zeolite with the AEI structure and its catalytic activity (Tokyo Inst. of Technol.) Yusuke Kunitake, Masato Yoshioka, Junko N. Kondo, Toshiyuki Yokoi
10:00-10:15	YO A19: Effects of hierarchical zeolites on aromatization of acetylene (Sogang Univ.) Wonsuk Lee, Taehee Lee, Jungkyu Choi, Kyoung-Su Ha	YO B20: Synthesis of Cu_2O@Ag Bumpy Nanoparticles with Enhanced Photocatalytic Performance (KAIST) Changsoo Lee, Yung Jong Lee, Chanwon Jung, Hyuck Mo Lee	YO C20: Development of a novel electron mediator based on phenylviologen for biocatalyst with CO_2 utilization (Osaka City Univ.) Takayuki Katagiri, Shusaku Ikeyama, Kohei Fujita, Yutaka Amao	YO D20: Effects of Na on CO and CO_2 methanation over Na-Ni/SiO_2 and Na-Ni/CeO_2 (Ajou Univ.) An Le Thien, Tae Wook Kim, Sae Ha Lee, Eun Duck Park
10:15-10:30	YO A20: Efficient Ketones Synthesis via Catalytic Hydration over Hydrophobic Zeolites (Hokkaido Univ.) Sharmin Sultana Poly, S.M.A.H. Siddiki, Takashi Toyao, Ken-ichi Shimizu	YO B21: Direct Photoconversion of Toluene to Methylcyclohexane Using ZnSe:Cu(In,Ga)Se_2 Photocathode (The Univ. of Tokyo) Yosuke Kageshima, Yosuke Goto, Sho Sugisaki, Hiroyuki Kaneko, Tsutomu Minegishi, Kazunari Domen	YO C21: Improvement of CO_2 reduction catalytic activity of biocatalyst by artificial co-enzyme (Osaka City Univ.) Shusaku Ikeyama, Yutaka Amao	YO D21: Calcination temperature effect on silica supported Pt catalyst for low temperature ethylene oxidation (Hokkaido Univ.) Shazia Sharmin Satter, Kiyotaka Nakajima, Atsushi Fukuoka
10:30-10:45	YO A21: Zero Valent Copper Catalyst for Oxidative Conversion of Methane into Methanol (Myongji Univ.) Raghavendra Shavi, Jeong Gil Seo	YO B22: Surface-modified metal sulfides as stable H_2 evolving photocatalyst in Z-scheme water splitting system with $[Fe(CN)_6]^{3-/4-}$ redox mediator under visible light irradiation (Kyoto Univ.) Masanobu Higashi, Takashi Shirakawa, Osamu Tomita, Ryu Abe	YO C22: Organocatalysts containing hydroxyl and amine groups for the cycloaddition of CO_2 and Alkyl oxide (Univ. of Ulsan and KRICT) Hyeon-Gook Kim, Deug-Hee Cho, Dong-Koo Lee, Dong-Woo Kim, Jin Suk Chung	YO D22: The Effect of Catalytic Reactor Bed Dilution on Product Distribution for Fischer-Tropsch Synthesis over Ru/Co/Al_2O_3 Catalyst (KIST, Univ. of Sci. and Technol., Korea Univ.) Gi Hoon Hong, Eun-Hyeok Yang, Young-su Noh, Ji In Park, Seol A Shin, and Dong Ju Moon
10:45-11:05	Coffee Break			
11:05-11:10	Opening Remarks			
Chair	K-PL01			
11:10-12:00	PL 01: Catalytic Processes for Utilization of Hydrogen Carriers (Kyoto Univ.) Koichi Eguchi			
12:00-13:10	Lunch			

Chair	JA5, KA5	JB5, KB5	JC5, KC5
13:10-13:30	GO A01: Role of Al_2O_3 versus ZrO_2 in Cu/ZnO-based Catalysts in CO_2 Hydrogenation to Methanol (Hanyang Univ.) Jinsung Kim, Cheonwoo Jeong, Young-Woong Suh	GO B01: Oxide catalysts for electronic reduction of oxalic acid toward efficient power storage (Kyushu Univ.) Miho Yamauchi, Ryota Watanabe, Shinichi Hata, Sho Kitano, Masaaki Sadakiyo	GO C01: Transfer hydrogenation of nitrobenzene to aniline in neat water using Pd nanoparticles immobilized on amine-functionalized UiO-66 (Inha Univ., Kunsan National Univ.) Chinna Krishna Prasad Neeli, Yu-Ri Lee, Siqian Zhang, Young-Min Chung, Wha-Seung Ahn, Sung-Hyeon Beack
13:30-13:50	GO A02: CuO-ZrO_2 catalysts in mesoporous silica: CO_2 hydrogenation to methanol (Seikei Univ.) Shohei Tada, Ayaka Katagiri, Keiko Kiyota, Naohiro Shimoda, Shigeo Satokawa	GO B02: Development of cathode catalysts for photoelectrochemical and electrochemical CO_2 reduction (KAIST) Seong Ihl Woo, Da Hye Won, Chang Hyuck Choi, Ji Hoon Jeon	GO C02:Development of High Activity Catalysts for Selective Ethylene Trimerization to 1-Hexene (Mitsui Chemicals, Inc.) Shinichiro Ichikawa, Takashi Nakano, Seiichi Ishii, Terunori Fujita
13:50-14:10	GO A03: Hot electron flux at the solid-liquid interfaces; effects of pH and concentration during decomposition (Inst. for Basic Sci., KAIST) Seung Hee Lee, Ievgen I. Nedrygailov, Song Yi Moon, Sunyoung Oh, Jeong Young Park	GO B03: Nanostructured Carbon-Based, Highly Active and Durable Non-Precious Metal Electrocatalysts for the Oxygen Reduction Reaction (UNIST) Sang Hoon Joo, Jae Yeong Cheon, Young Jin Sa, Bora Seo	GO C03: Effect of Titania Supports on Ir-Catalyzed Synthesis of Benzimidazoles via Dehydrogenation or Hydrogen Transfer (Kagawa Univ.) Kenji Wada, Tatsuhiro Fukutake, Qi Feng
14:10-14:30	GO A04: Promotional effect of water on direct dimethyl ether synthesis from carbon monoxide and hydrogen over Cu-Zn/Al_2O_3 catalysts prepared by using the sol-gel method (Shizuoka Univ.) Kaoru Takeishi	GO B04: Highly Concentrated CO Evolution for Photocatalytic Conversion of CO_2 by H_2O as an Electron Donor (Kyoto Univ.) Kentaro Teramura, Kazutaka Hori, Yosuke Terao, Hiroyuki Tatsumi, Zeai Huangh, Shoji Iguchi, Zheng Wang Hiroyuki Asakura, Saburo Hosokawa, Tsunehiro Tanaka	GO C04: Metal-chelated porous organic frameworks as a catalyst for cyclic carbonate synthesis from CO_2 and epoxides under mild conditions (Inha Univ.) Seenu Ravi, Pillaiyar Puthiaraj, Yuri-Lee, Wha-Seung Ahn
14:30-14:50	Coffee Break		
Chair	JA6, KA6	JB6, KB6	JC6, KC6
14:50-15:10	KL 01: Catalytic Upgrading of Thermochemical Biocrude Oils to Hydrocarbon Fuels - from Lab to Pilot Scale (KIST) Dong Jin Suh	GO B05: Solar-energy driven deposition of tiny rod shaped Sn catalyst for electrochemical CO_2 reduction (POSTECH) V.S.K Yadav, Hyunsu Han, Won Bae Kim	GO C05: Homogeneous Sn-Catalyzed Transformation of Algal Residue into Important Chemicals (Tokyo Inst. of Technol.) Sho Yamaguchi, Yuuki Kawada, Hidetaka Yuge, Kan Tanaka, Sousuke Imamura

15:10-15:30		GO B06: In situ Time-resolved XAFS Study for ADT Processes of Pt/C and Pt_3Co/C PEFC Cathode Electrocatalysts (RIKEN SPring-8 Center, Nagoya Univ., Kasetsart Univ., The Univ. of Electro-Communications) Nozomu Ishiguro, Sutasinee Kityakarn, Oki Sekizawa, Tomoya Uruga, Hirosuke Matsui, Kensaku Nagasawa, Mizuki Tada	GO C06: Mechanistic Studies on Palladium-Catalyzed Regioselective and Stereospecific Aziridine Ring-Opening Cross-Coupling Reactions (Hokkaido Univ., Osaka Univ. Kyoto Univ.) W. M. C. Sameera, Youhei Takeda, Satoshi Minakata, Keiji Morokuma
15:30-15:50	KL 02: Catalysts for Synthesis/Decomposition of Ammonia as Hydrogen Carrier (Oita Univ.) Katsutoshi Nagaoka	GO B07: Effect of Graphitic Carbon Support with Non-Pt composition on the Anode Durability for PEMFC (Gwangju Inst. of Sci. and Technol.) Chanho Pak, Eunyoung You, Seon-Ah Jin, Myoungki Min, Tae-Yoon Kim	GO C07: Synthesis of SnPt Bimetallic Nanoparticle Catalysts for Chemoselective Hydrogenation of Unsaturated Aldehyde (Kobe Univ.) Keita Taniya, Chih Hao Yu, Hiromu Takado, Atsushi Okemoto, Yuichi Ichihashi, Satoru Nishiyama
16:50-16:10		GO B08: Study of Carbon-Nafion-Membrane Catalyst for Synthesis of Pure H_2O_2 Aqueous Solutions (Tokyo Inst. of Technol.) Ichiro Yamanaka, Yu Tamada, Daisuke Hiraki, Hitoshi Ogihara	GO C08: Solid base catalysis of ball-milled hexagonal-boron nitride (The Univ. of Tokyo) Atsushi Takagaki, Shusaku Torii, Shoichiro Namba, Shigenobu Hayashi, Ryuji Kikuchi, S. Ted Oyama
16:10-16:30	GO A05: Multiple steady states in Oxidative Steam Reforming of Methanol (OSRM) (Kyungpook National Univ.) Young Shin Jang, Jung Hyeon Kim, Dong Hyun Kim	GO B09: Direct synthesis of liquefied petroleum gas from syngas over H-ZSM-5 enwrapped Pd-based zeolite (Toyama Univ.) Peipei Zhang, Guohui Yang, Yoshiharu Yoneyama, Ruiqin Yang, Noritatsu Tsubaki	GO C09: Selective and stable production of ethylene from propylene over surface modified ZSM-5 zeolites (Korea Research Inst. of Chem. Technol., Kyungpook National Univ.) Jong-Won Jun, Tae-Wan Kim, Joo-Wan Kim, Seok il Hong, Chul-Ung Kim, Sung Hwa Jhung
16:30-16:50	GO A06: Alcohol and Seed-assisted Synthesis of OSDA-free High-silica ZSM-5 (Tokyo Inst. of Technol.) Sungsik Park, Junko N. Kondo, Toshiyuki Yokoi	GO B10: First-Principles Study on Poisoning Tolerance of Pt Alloy Nano-Particle Catalyst in Polymer Electrolyte Fuel Cell Anode (Tohoku Univ.) Nobuki Ozawa, Momoji Kubo	GO C10: oncerted Catalysis in Mesoporous Silica: Palladium-Catalyzed Allylation Accelerated by co-Immobilized Tertiary Amine (Tokyo Inst. of Technol.) Ken Motokura, Marika Ikeda, Masayuki Nambo, Wang-Jae Chun, Kiyotaka Nakajima, Shinji Tanaka
17:00-18:30	General Poster Session		
19:00	Banquet		

May 17 (Wed.)

	Room A	Room B	Room C
Chair	JA7, KA7	JB7, KB7	JC7, KC7
9:10-9:30		GO B11: Active sites of nitrogen-doped carbon materials for oxygen reduction reaction (Univ. of Tsukuba) Donghui Guo, Riku Shibuya, Yuto Shimoyama, Takahiro Kondo, Junji Nakamura	GO C11: Oxidation of Benzene with Hydrogen Peroxide over Iron-Bipyridine Complexes Encapsulated in Metal Cation-Exchanged Zeolite (Ehime Univ.) Syuhei Yamaguchi, Yuki Miyake, Hidenori Yahiro
9:30-9:50	KL 03: Designed Pd nanoparticles for direct synthesis of hydrogen peroxide (Korea Univ.) Kwan Young Lee	GO B12: Efficient Solar Water Splitting on Particulate Perovskite-type Oxynitride Photoanodes (The Univ. of Tokyo) Jeongsuk Seo, Kazunari Domen	GO C12: Selective Hydroconversion of Diesel Boiling Range Heavy-Aromatics for Xylene-rich BTX Production (Chonnam National Univ.) Tuan Ngoc Phan, Chang Hyun Ko
9:50-10:10		GO B13: Water Splitting and CO_2 Fixation on Visible-Light-Responsive Rutile TiO_2-based Photocatalysts (Tokyo Inst. of Technol.) Kazuhiko Maeda, Akinobu Nakada, Koki Ishimaki, Junie Jhon M. Vequizo, Akira Yamakata, Osamu Ishitani	GO C13: Catalytic Cracking of Fat by Hierarchical Zeolite-Containing SiO_2-Al_2O_3 Using Curie Point Pyrolyzer (Mie Univ.) Atsushi Ishihara, Takashi Tsukamoto, Tadanori Hashimoto, Hiroyuki Nasu
10:10-10:30	GO A07: Cooperative Effects of Zeolite Mesoporosity and Defect Sites on the Coke Formation and Deactivation (KAIST) Kyungho Lee, Minkee Choi	GO B14: Potocatalytic Improvement with Polystyrene Sphere Patterned TiO_2 Films for Environmental Application (Sungkyunkwan Univ.) Hyeon Jin Seo, Ki-Hwan Hwang, Young Hoon Na, Sang Hun Nam, Jin-Hyo Boo	GO C14: Selective Hydroconversion of Diesel Boiling Range Heavy-Aromatics for Xylene-rich BTX Production (Dong-A Univ.) Yeseul Choi, Jaeuk Shin, Jihye Lee, Jung Kyoo Lee
10:30-10:50	GO A08: Effect of alkali metal addition to iron oxide structured catalyst for water gas shift property (Shizuoka Univ.) Ryo Watanabe, Kengo Tajima, Nozomu Hirata, Kohno Yoshiumi and Choji Fukuhara	GO B15: Development of Visible-light-driven Oxide Photocatalysts by Band Engineering with Cu(I) (Tohoku Univ.) Hideki Kato, Naohiro Kamemura, Arisa Takeda, Makoto Kobayashi, Masato Kakihana	GO C15: Hydrogenolysis of benzofuran over Pt/Al_2O_3 in methanol used as solvent and hydrogen source (Tokyo Inst. of Technol.) Hiroyasu Fujitsuka, Masaki Tamura, Teruoki Tago
10:50-11:10	Coffee Break		

11:10-12:00	PL 02: Development of Heterogeneous Catalysts for the Synthesis of Cyclic Carbonates from CO_2 and Epoxides (Pusan National Univ.) Dae Won Park		
12:00-13:10	Lunch		
Chair	JA8, KA8	JB8, KB8	JC8, KC8
13:10-13:30	GO A09: Syngas conversion to ethanol or acetic acid via DME carbonylation to methyl acetate: Catalysts and fluidized-bed reactor application (Sungkyunkwan Univ.) Jong Wook Bae, Dong Hyun Lee, Ji-Hyeon Kim, Hyungwon Ham, Jong Hun Lim	GO B16: Highly Efficient Photocatalytic Hydrogen Production by Liquid Phase Plasma Irradiation over TiO_2/Carbon Nanotube Photocatalysts (Sunchon National Univ.) Kyong-Hwan Chung, Won-June Lee, Sung-Jin Lee, Sang-Chul Jung	GO C16: Consecutive Bio-oil Upgrading Process via Two Stage Reaction (Univ. of Seoul) Young-Min Kim, Heejin Lee, P. S. Rezaei, Daejun Oh, Ki Hoon Kim, S. Shafaghat, Su Bin Kim, Young-Kwon Park
13:30-13:50	GO A10: Effect of Core Composition of Pd alloy on the Single Cell Performance in high temperature PEMFC (Gwangju Inst. of Sci. and Technol.) Chanho Pak, Eunyoung You, Seon-Ah Jin, Myoungki Min, and Tae-Yoon Kim	GO B17: Reduction of CO_2 with water over Ag/Ga_2O_3 photocatalysts prepared by solution plasma method (Osaka City Univ., Nagoya Univ., Aichi Center for Ind. and Sci. Technol., Kyoto Univ.) Tomoko Yoshida, Naoto Yamamoto, Tsuyoshi Mizutani, Muneaki Yamamoto Satoshi Ogawa, Shinya Yagi, Hirofumi Nameki, Hisao Yoshida	GO C17: Efficient formation of 5-(hydroxymethyl)furfural from glucose with photoassist-phosphorylated TiO_2 catalyst (Tokyo Inst. of Technol.) Masashi Hattori, Keigo Kamata, Michikazu Hara
13:50-14:10	KL 04: Nanosheet Photocatalysts for Water Splitting and Epoxides (Kyushu Univ.) Shintaro Ida	GO B18: Preparation and photocatalytic performance evaluation of carbon nanostructured doped TiO_2 nanoparticles using liquid phase plasma treatment (Sunchon National Univ.) Seung Jai Lee, Sangmin Jeong, Heon Lee, Wang Geun Shim	GO C18: Mechanochemical Synthesis of Poly(lactic acid) (Chonbuk National Univ.) Jeung Gon Kim, Nuri Ohn
14:10-14:30		GO B19: Difference in the Behavior of Photogenerated Electrons and Holes on Anatase and Rutile TiO_2 Powders (Toyota Technological Inst.) Akira Yamakata, Junie Jhon M. Vequizo, Hironori Matsunaga	GO C19: Deoxydehydration of glycerol with H_2 to allyl alcohol catalyzed by heterogeneous $ReOx-Au/CeO_2$ (Tohoku Univ.) Keiichi Tomishige, Yoshinao Nakagawa, Masazumi Tamura
14:30-14:50	Coffee Break		

Chair	JA9, KA9	JB9, KB9	JC9, KC9
14:50-15:10	GO A11: Enhanced Three Way Catalytic Activity of $NiFe_2O_4$ by Physically Mixed Metal Oxides (Nagoya Univ.) Shiori Nagai, Kakuya Ueda, Junya Ohyama, Atsushi Satsuma	GO B20: Multielectron Reduction of Molecular Oxygen in Photocatalysis by Bismuth Tungstate and the Other Metal-oxide Particles (Hokkaido Univ.) Bunsho Ohtani, Haruna Hori, Mai Takashima, Mai Takase	GO C20: One-pot Conversion of Furfural to γ-Valerolactone over Heteropolyacid Supported on Zr-Beta Zeolites (KIST) Haryo Pandu Winoto, Hyunjoo Lee, Dong Jin Suh, Byoung Sung Ahn, Jungho Jae
15:10-15:30	GO A12: Effect of hydrothermal aging on Pd/SSZ-13 in low temperature NO adsorption for cold start application (Seoul National Univ.) Young Seok Ryou, Jaeha Lee, Hyokyoung Lee, Chang Hwan Kim, Do Heui Kim	GO B21: Hetero-type dual metal oxide photoanodes for unbiased solar water splitting with extended light harvesting (UNIST) Ji-Wook Jang	GO C21: Hydroconversion of fatty acid derivatives over Ni-Mo catalysts under low hydrogen pressure (The Univ. of Kitakyushu) Hiroyuki Imai, Miku Abe, Kazusa Terasaka, Xiahong Li
15:30-15:50	GO A13: Influence of Al_2O_3 support on the activity of Ir/Al_2O_3 catalysts for NO reduction with C_3H_6 and CO in slight lean conditions (Nagoya Inst. of Technol.) Yasuyuki Doi, Masaaki Haneda	GO B22: Preparation of $(Cu,Ag)_2ZnSnS_4$ Solid Solution Nanocrystals for Efficient Solar Energy Conversion (Nagoya Univ.) Tatsuya Kameyama, Ryosuke Kakudo, Susumu Kuwabata, Tsukasa Torimoto	GO C22: Na-W-Mn catalyst supported on the hydroxyapatite-coated silica for oxidative coupling of methane (Korea Univ.) Byung Jin Lee, Young gul Hur, Kwan-Young Lee
15:50-16:10	GO A14: Effect of Cation in High Silica CHA on Hydrothermal Stability and Selective Catalytic Reduction of NO_x (Korea Univ.) Soon Hee Park, Seung Gwan Lee, Jin Hee Park, Ha Na Jeong, Kwan Young Lee, Sung June Cho	GO B23: Sodium hexatitanate photocatalysts prepared by a flux method for CO_2 reduction with water (Kyoto Univ., Nagoya Univ., Osaka City Univ., Toyota Central R&D Labs., Inc., Toyota Motor Co.) Hisao Yoshida, Masumi Sato, Naoto Fukuo, Like Zhang, Yuta Yamamoto, Tomoko Yoshida, Takeshi Morikawa, Tsutomu Kajino, Mitsuru Sakano, Takeshi Sekito, Shinichi Matsumoto, Hirohito Hirata	GO C23: Synthesis of Lower Olefins from Synthesis Gas over Active Carbon-Supported Iron Catalyst (The Univ. of Kitakyushu) Kenji Asami, Kazuki Komiyama, Kohei Yoshida, Hiroki Miyahara
Chair	JA10, KA10	JB10, KB10	JC10, KC10
16:10-16:30	GO A15: HCl gas removal from a vapor phase using Magnesium oxide having high activity (RIKEN, Hokkaido Univ. of Education, Hakodate) Michiko Kitagawa, Nana Ishida, Erika Yoshino, Hiromi Matsuhashi	GO B24: Electrocatalytic Behavior of Mesoporous Mn_2O_3 nanoparticles: Supercapacitor Applications (Chonbuk National Univ.) Phuong T. M. Bui, Zhen-Yu Li, Jinho Song, Do-kwan Kwak, M. Shaheer Akhtar, O-Bong Yang	GO C24: Oxidative Coupling of Methane using Modified Na/W/Mn Catalysts (KIST) Rika Tri Yunarti, Sangseo Gu, Suji Yoon, Seoyeon Lim, Jeong-Myeong Ha, Myung-June Park, Oh-Shim Joo

16:30-16:50	GO A16: Synthesis of Pt/mesoporous SiC-15 and its catalytic performance for sulfuric acid decomposition (KIST) Hasnain Abbas Khan, Kwang-Deog Jung	GO B25: Microwave-enhanced fixed-bed flow reactions: Fundamental mechanism to applications (Tokyo Inst. of Technol., The Univ. of Tokyo, Okinawa National College of Technol.) Shuntaro Tsubaki, Naoto Haneishi, Eriko Abe, Masato M. Maitani, Satoshi Fujii, Ei-ichi Suzuki, Yuji Wada	GO C25: Acid-base catalysis of $YNbO_4$ for sugar conversion in water (Hokkaido Univ.) Minjune Kim, Hideki Kato, Atsushi Fukuoka, Kiyotaka Nakajima
16:50-17:10	GO A17: On the delamination of layer-structured MCM-22 precursors (Korea Univ.) Taehee Lee, Jungkyu Choi	GO B26: Spectroscopic Study on Multicyclic Stability of CO_2 Adsorbent in Flue Gas Conditions (Kongju National Univ.) Jae Wan Jeon, Rose Mardie Pacia, Seong Won Pyo, Hwimin Seo, Yong Ki Park, Young Soo Ko	GO C26: Acid-base properties of Al_2O_3: effects of morphology, crystalline phase, and additives (UNIST) Jaekyoung Lee, Eun Jeong Jang, Ja Hun Kwak
17:10-17:30	GO A18: Synthesis of High-Energy-Density Fuel over Mesoporous Aluminosilicate Catalysts (Kongju National Univ.) Jongjin Kim, Beomseok Shim, Gayoung Lee, Jeongsik Han, Jong-Ki Jeon	GO B27: Visible-Light-Responsive MOF Catalysts for Hydrogen Production from Hydrogen Carrier Molecules (Osaka Univ.) Meicheng Wen, Yasutaka Kuwahara, Kohsuke Mori, Hiromi Yamashita	GO C27: Extraction of lignin from raw biomass via organosolv treatment and its conversion to phenols over iron-oxide based catalyst (Hokkaido Univ.) Takuya Yoshikawa, Yuki Kawamata, Kanta Yamaguchi, Yuta Nakasaka, Teruoki Tago, Shinya Sato, Yoshihito Koyama, Kevin C.-W. Wu, Takao Masuda
17:30-17:40	Closing Remarks		