TOCAT7 Oral Program

01-Jun-2014, Sunday, Room A

Chair: Koichi Eguchi				
17:00-17:50	PL-01	Role of Catalysis in Sustainable "Petro"Chemicals Production	Takashi Tatsumi	Tokyo Institute of Technology

02-Jun-2014, Monday, Room A

Chair: Johannes A. Lercher				
10:00-10:50	PL-02	Catalysis - Enabler for Sustainability	Ulrich Müller	BASF-The Chemical Company
Chairs: Siglinda Perathoner, Toru Murayama				
11:10-11:30	O-A01	Enhancing The Catalytic Activity of Graphene for Oxygen Reduction Reaction by Doping and Morphology Optimization	Seong Ihl Woo, Sung Hyeon Park, Min Wook Chung	Korea Advanced Institute of Science and Technology (KAIST)
11:30-11:50	O-A02	Oxygen Reduction Reaction Properties of Ta- and Nb-Based Cathode Catalysts for Polymer Electrolyte Fuel Cells	Jun Kubota, Jeongsuk Seo, Takuya Arashi, Yu Kawasaki, Kazuhiro Takanabe, Kazunari Domen	The University of Tokyo, Kyoto University, King Abdullah University of Science and Technology
11:50-12:10	O-A03	Fabrication of Mesoporous Platinum Nanospheres as Self-Supported Highly Active Electrocatalysts for The Oxygen Reduction Reaction	Chia-Min Yang, Po-Kai Chen, Nien-Chu Lai, Chia-Hua Ho, You-Wei Hu	National Tsing Hua University
Chair: Noritaka Mizuno				
13:30-14:20	PL-03	Amine-Modified Silicates as Sorbents, Supports and Catalysts	Christopher W. Jones	Georgia Institute of Technology
Chairs: Chia-Min Yang, Katsutoshi Nagaoka				
14:40-15:00	O-A04	Highly Active and Selective Nb_2O_5-Supported Cobalt Catalysts for Fischer-Tropsch Synthesis	Jan H. Den Otter, K.P. De Jong	Utrecht University
15:00-15:20	O-A05	Effect of Zeolite on The Natures of $Ru/MnCO_3$ Catalysts for Fischer-Tropsch Reaction	Kazuhisa Murata, Isao Takahara, Kazuhito Sato, Megumu Inaba, Yanyong Liu	Energy Technology Research Institute, National Institute of Advanced Industrial Science and Technology (AIST)
15:20-15:40	O-A06	Pore Size Effects in High Temperature Fischer-Tropsch Synthesis over Iron Catalysts Supported by Mesoporous Silicas	Kang Cheng, Mirella Virginie, Vitaly V. Ordomsky, Catherine Cordier, Petr A. Chernavskii, Vlad O. Kazak, Qinghong Zhang, Ye Wang, Andrei Y. Khodakov	Unité de Catalyse et de Chimie du Solide, CNRS, Xiamen University, Université Lille 1, Moscow State University
15:40-16:00	O-A07	Catalytic Ammonia Decomposition over Ni Catalysts Supported on Rare-Earth Oxides	Kaname Okura, Hiroki Muroyama, Toshiaki Matsui, Koichi Eguchi	Kyoto University
Chairs: Seong Ihl Woo, Jun Kubota				
16:20-16:40	O-A08	Efficient Hydrogen Production from Formic Acid Decomposition by Pd and Pd-Ag Nanoparticles within A Macroreticular Basic Resin	Kohsuke Mori, Masahiro Dojo, Hiromi Yamashita	Osaka University, Kyoto University
16:40-17:00	O-A09	Efficient Hydrogen Generation in A Photoelectrochemical Cell Using CdSe/CdS Co-Sensitized Double Side TiO_2 Nanorod Array	Li-Cheng Kao, Chin-Jung Lin, Ya-Hsuan Liou	National Taiwan University, National I-Lan University
17:00-17:20	O-A10	TiO_2 Nanostructured Electrode for Photocatalytic Devices	Rosalba Passalacqua, Siglinda Perathoner, Gabriele Centi	University of Messina

02-Jun-2014, Monday, Room B

Chairs: Wolfgang F. Hoelderich, Hideto Tsuji				
11:10-11:30	O-B01	Acid Base Characterisation of Heterogeneous Catalysts: An Up-To-Date Overview	Jacques C. Védrine	Université P. & M. Curie (UPMC)
11:30-11:50	O-B02	Turning Acid-Base Properties of Zirconia by Surface Organosilylation	Yuzo Imizu, Takahiro Nishiharaguchi, Hirofumi Yamada	Kitami Institute of Technology
11:50-12:10	O-B03	Effect of Short Time Heat Treatment of Magnesium Hydroxide on Base Catalytic Activity of Magnesium Oxide	Hiromi Matsuhashi, Michiko Kitagawa, Jun Ichikawa, Keigo Yamashita	Hokkaido University of Education, RIKEN
Chairs: Jacques C. Védrine, Yuzo Imizu				
14:40-15:00	O-B04	Synthesis of Fragrances and Flavors via Aldolcondensation over Solid Acid-Base Catalysts	Wolfgang F. Hoelderich, Verena Ritzerfeld	RWTH-Aachen University, TCHK
15:00-15:20	O-B05	Catalytic Requirements For Intra- And Inter-Molecular C=C Bond Formation In Alkanals On Solid Brønsted Acid Catalysts	Ya-Huei (Cathy) Chin, Fan Lin	University of Toronto
15:20-15:40	O-B06	Unprecedented Alkylations of Silicon Enolates Using Alcohols Catalyzed by Tin(IV) Ion-Exchanged Montmorilonite	Michael Andreas Tandiary, Taiki Hattori, Yoichi Masui, Makoto Onaka	The University of Tokyo
15:40-16:00	O-B07	Generation of Thermally Stable Brønsted Acid Sites on Group V and VI Metal Oxides Supported on Alumina	Tetsuya Shishido, Tomohiro Hayashi, Tomoyuki Kitano, Saburo Hosokawa, Kentaro Teramura, Tsunehiro Tanaka	Tokyo Metropolitan University, Kyoto University, JST-PRESTO
Chairs: Ya-Huei (Cathy) Chin, Hiromi Matsuhashi				
16:20-16:40	O-B08	Apparent Intra-Molecular H/D Exchange of Ethanol over H-ZSM-5	Junko N. Kondo, Hiroshi Yamazaki, Toshiyuki Yokoi, Takashi Tatsumi	Tokyo Institute of Technology
16:40-17:00	O-B09	Prediction of Brønsted Acid Strength of Zeolite from Framework Structure	Naonobu Katada	Tottori University
17:00-17:20	O-B10	Mechanochemical and Chemical Modifications Giving Nano-Sized ZSM-5 Zeolite Particles with High Catalytic Performance	Satoshi Inagaki, Shoma Shinoda, Shunsuke Hayashi, Yuji Nishita, Toru Wakihara, Yoshihiro Kubota	Yokohama National University, The University of Tokyo

02-Jun-2014, Monday, Room C

Chairs: Masaya Matsuoka, Hideaki Yoshitake				
11:10-11:30	O-C01	Tunable Iso-Paraffin and Olefin Yields in Fischer-Tropsch Synthesis Achieved by Various Deposited Pathways of Noble Metals	Jian Sun, Yoshiharu Yoneyama, Noritatsu Tsubaki	University of Toyama
11:30-11:50	O-C02	Conceptual Design of Ag@CeO_2 Core-Shell Nanocomposite Catalyst for Highly Chemoselective Hydrogenations	Takato Mitsudome, Zen Maeno, Tomoo Mizugaki, Koichiro Jitsukawa, Kiyotomi Kaneda	Osaka University
11:50-12:10	O-C03	Nitroarene Liquid-Phase Hydrogenation: Enhanced Catalytic Performance of Nickel Nanoparticles Supported on Activated Carbon Fibers	Daniel Lamey, Sara Moya Pascale, Fernando Cardenas-Lizana, L. Kiwi-Minsker	Ecole Polytechnique Fédérale de Lausanne (EPFL-SB-ISIC-GGRC)
Chairs: Tatsuya Tsukuda, Wha-Seung Ahn				
14:40-15:00	O-C04	Reaction of Alpha, Beta-Unsaturated Aldehyde with Methanol on Gold Catalysts	Hideaki Yoshitake, Kanae Tutsumi, Shota Kenjoa	Yokohama National University
15:00-15:20	O-C05	Synergistic Effect of Gold Nanoparticles and Acidic Support Material: Catalyst Preparation by Using Gold Acetate	Hiroaki Sakurai, Kenji Koga, Masato Kiuchi	National Institute of Advanced Industrial Science and Technology (AIST)
15:20-16:00	IL-C01	Gold Catalysis - Recent Developments	Graham Hutchings	Cardiff University
Chairs: Graham Hutchings, Isao Ogino				
16:20-16:40	O-C06	Design of Metal–Organic Framework Photocatalysts Incorporating Organic Linkers Acting as Light-Harvesting Units for Visible-Light-Driven Hydrogen Production	Yu Horiuchi, Takashi Toyao, Masakazu Saito, Katsunori Mochizuki, Masatoshi Iwata, Hideyuki Higashimura, Masaya Matsuoka	Osaka Prefecture University, Sumitomo-Chemical Co.
16:40-17:20	IL-C02	Metal Organic Frameworks (MOFs): Synthesis and Applications in Catalysis/Adsorption	Wha-Seung Ahn	Inha University

02-Jun-2014, Monday, Room D

Chairs: Youzhu Yuan, Keiichi Tomishige				
11:10-11:50	IL-D01	Saccharification of Cellulosic Biomass by Activated Carbon	Atsushi Fukuoka	Hokkaido University
11:50-12:10	O-D01	Novel Vanadium-Catalyzed Selective Transformations of Glucose and Cellulose into Lactic Acid or Formic Acid in Water	Zhenchen Tang, Weiping Deng, Qinghong Zhang, Ye Wang	Xiamen University
Chairs: Yuriy Román Leshkov, Atsushi Fukuoka				
14:40-15:20	IL-D02	A Novel Catalyst Design Strategy for Lignin C-O Bond Hydrogenolysis	Ning Yan, Jiaguang Zhang	National University of Singapore
15:20-15:40	O-D02	Selective Hydrogenolysis of Carbon–Oxygen Bonds over Supported Ru-Fe Bimetallic Nanocatalysts	Wenjing Li, Linmin Ye, Bodong Li, Subing Zhang, Youzhu Yuan	Xiamen University
15:40-16:00	O-D03	Controlling Product Selectivity in 5-Hydroxymethylfurfural Hydrogenation by Modification of Cu/SiO_2 Catalysts	Masaki Okamoto, Fumihito Kawamura, Yuka Fukuda	Tokyo Institute of Technology
Chairs: Ning Yan, Masaki Okamoto				
16:20-16:40	O-D04	Development of Green Heterogeneous Catalysis Methods of Lignocellulosic Biomass Conversion to Glucose and Liquid Hydrocarbons	Boris N. Kuznetsov, Natalia V. Garyntseva, Svetlana A. Kuznetsova, Laurent Djakovitch, Catherine Pinel	Institute of Chemistry and Chemical Technology SB RAS, Siberian Federal University, IRCELYON
16:40-17:00	O-D05	Mechanochemical Depolymerization of Crystalline Cellulose Using A Layered Metal Oxide Solid Acid	Atsushi Takagaki, Shogo Furusato, Shigenobu Hayashi, Ryuji Kikuchi, S. Ted Oyama	The University of Tokyo
17:00-17:20	O-D06	Development of Pt-W-Al Catalysts for Selective Hydrogenolysis of Glycerol	Tomoo Mizugaki, Yuki Nagatsu, Zen Maeno, Takato Mitsudome, Koichiro Jitsukawa, Kiyotomi Kaneda	Osaka University

03-Jun-2014, Tuesday, Room A

Chair: Robbie Burch				
09:00-09:50	PL-04	Catalysis Contribution for The Realization of GSC in 21st Century	Tohru Setoyama	Mitsubishi Chemical Corporation
Atsushi Muramatsu, Kazuhisa Murata				
10:10-10:30	O-A11	Effect of Nickel Precursor Type in Electroless Plating on Methane Reforming Performance of Ni/Al_2O_3 Structured Catalyst	Kazumasa Yamamoto, Yudai Makiyama, Ryo Watanabe, Choji Fukuhara	Shizuoka University
10:30-10:50	O-A12	Effect of Modified Ni-Based Catalysts Supported on $LaAlO_3$ for Aqueous Phase Reforming of Glycerol	Yoon Hwa Park, Ji Yeon Kim, Nam Cook Park, Young Chul Kim	Chonnam National University
10:50-11:30	IL-A01	Atomically Dispersed Supported Metal Catalysts for Efficient Hydrogen and Chemicals Production	Maria Flytzani-Stephanopoulos	Tufts University
Chairs: Takanori Miyake, Noriyoshi Kakuta				
11:30-11:50	O-A13	Cold Start Process of n-Butane Oxidative Reforming over Silicon Oxide Doped Cerium – Zirconium Composite Oxide Supported Ni Catalysts	Katsutoshi Sato, Kosuke Kawano, Naoya Sumi, Tkaaki Eboshi, Tatsuro Miyazaki, Yoshiyuki Michiaki, Yusaku Takita, Katsutoshi Nagaoka	Kyoto University, Oita University, DOWA Electronics Materials Co.,Ltd,
11:50-12:10	O-A14	Rh-Fe/Ca-Al_2O_3: A Unique Catalyst for Low Temperature Ethanol Steam Reforming to Produce CO-Free Hydrogen	Luwei Chen, Catherine Choong K.S., Yonghua Du, Martin K. Schreyer, Armando Borgna	Institute of Chemical & Engineering Sciences (ICES)
Chair: Joachim Sauer				
13:30-14:20	PL-05	Nanocarbons for The Development of Advanced Catalysts	Gabriele Centi	University of Messina
Chairs: Maria Flytzani-Stephanopoulos, Kosuke Mori				
14:40-15:00	O-A15	Catalytic Hydroconversion of A Wheat Straw Lignin	Benoit Joffres, Dorothée Laurenti, Chantal Lorentz, Nadège Charon, Antoine Daudin, A. Quignard, Christophe Geantet	Institut de Recherches sur la Catalyse et l'Environnement de Lyon, IFP Energies Nouvelles
15:00-15:20	O-A16	Gasoline, Kerosene, and Diesel via Direct Hydrodeoxygenation of Lignin	Johannes A. Lercher, Chen Zhao, Don Camaioni, Donghai Mei, Eszter Barath	Technische Universität München, Pacific Northwest National Laboratory
15:20-15:40	O-A17	Chemisorption and Spectroscopy Studied on Catalytically Active Sites of Ti-SBA -15 Catalysts for The Production of High-Quality Biodiesel Fuels	Shih-Yuan Chen, Takehisa Mochizuki, Yohko Abe, Makoto Toba, Yuji Yoshimura	Research Center for New Fuels and Vehicle Technology, National Institute of Advanced Industrial Science and Technology (AIST)
15:40-16:00	O-A18	Biodiesel Synthesis from Waste Cooking Oil via Iron-Manganese Doped Tungstated Molybdena as An Effective Reusable Heterogeneous Solid Superacid Catalyst	Fathelrahman Hamid Alhassan, Taufiq-Yap Y Hun	Catalysis Science and Technology Research Centre, Universiti Putra Malaysia

03-Jun-2014, Tuesday, Room B

Chairs: Zhongmin Liu, Tetsuya Shishido				
10:10-10:50	IL-B01	The Further of Catalytic Cracking for The Production of Light Olefins	Yong-Ki Park, Na Young Kang, Won Choon Choi, Hwimin Seo, Youngsun Park, Yu Jin Lee, Dae Jin Kim	Korea Research Institute of Chemical Technology
10:50-11:10	IO-B01	Improvement in The Hydrocracking Activity for Heavy Oil Upgrading Catalyst by Means of Modifications on Some Specific Properties of Y-Zeolite	Kazuhiro Inamura, Narinobu Kagami, Toshiyuki Shirakawa, Shinya Eura, Mitsunori Watabe	Idemitsu Kosan Corporation, JGC Catalysts and Chemicals Ltd.
11:10-11:30	IO-B02	Catalytic Cracking of Light-Naphtha over MFI-Zeolite/Metal-Oxide Composites for Efficient Propylene Production	Shinya Hodoshima, Azusa Motomiya, Shuhei Wakamatsu, Ryuichi Kanai, Fuyuki Yagi	Chiyoda Corporation
11:30-12:10	IL-B02	Process Development for Integration of Refining and Petrochemical Production	Yuichiro Fujiyama, Tatushi Ishizuka, Tai Ohuchi, Iwao Ogasawara	JX Nippon Oil & Energy Corporation
Chairs: Yong-Ki Park, Naonobu Katada				
14:40-15:20	IL-B03	Methanol to Olefin: from Fundamental to Commercialization	Zhongmin Liu	Dalian Institute of Chemical Physics
15:20-15:40	IO-B03	High Throughput Testing of Medium and Fast Deactivating Catalysts for Naphtha Reforming and Methanol-to-Hydrocarbons (MTH)	Alfred Haas, Marius Kirchmann, Sven K. Weber	hte GmbH
15:40-16:00	IO-B04	Tailoring of The Structure of Pt/WO_3-ZrO_2 Catalyst for High Activity in Skeletal Isomerisation of C_5-C_6 Paraffins under Industrially Relevant Conditions	Jose Miguel Hidalgo Herrador, Dalibor Kaucky, Oleg Bortnovsky, Radek Cerny, Zdenek Sobalik, Petr Sazama	Research Institute of Inorganic Chemistry (VUAnCh), Eurosupport Manufacturing Czechia Ltd., J.Heyrovský Institute of Physical Chemistry

03-Jun-2014, Tuesday, Room C

Chairs: Young Soo Ko, Wataru Ueda				
10:10-10:30	O-C07	Improved Performance of H SSZ-13 Zeolite in The MTO Reaction	Xiaochun Zhu, Leilei Wu, Quinyun Qian, Javier Ruiz-Martinez, Bert M. Weckhuysen, Jan P. Hofmann, Emiel J. M. Hensen	Eindhoven University of Technology, Utrecht University
10:30-10:50	O-C08	Hierarchical Mordenite Having Plate Type Morphology	Hyoungsuk Kim, Sang-Eon Park	Inha University
10:50-11:10	O-C09	Fe_2O_3 Nanorods: Controllable Synthesis and Catalytic Applications	Wenjie Shen, Xiaoling Mou, Xuejiao Wei, Yong Li	Dalian Institute of Chemical Physics
Chairs: Peng Wu, Michikazu Hara				
11:10-11:30	O-C10	Synthesis of New Polyoxometalate-Based Octahedral Molecular Sieves for Selective Molecular Adsorption	Zhenxin Zhang, Toru Murayama, Masahiro Sadakane, Wataru Ueda	Hokkaido University, Hiroshima University
11:30-11:50	O-C11	Water/Ice as an Agent for The Facile Exfoliation of Graphite Oxide And Reconstruction of The Resulting Graphene Oxide Sheets into A 3D Macroporous Carbon Monolith	Isao Ogino, Yuya Yokoyama, Shin R. Mukai	Hokkaido University
11:50-12:10	O-C12	Synthesis of Thermally Stable Graphene/Polyolefin Nanocomposite via in-situ Polymerization with Graphene-Supported Metallocene	Jeong Suk Lee, Jung Sub Shin, Young Soo Ko	Kongju National University
Chairs: Wenjie Shen, Masahiro Sadakane				
14:40-15:00	O-C13	Dispersed Ru Nanoclusters Prepared from SiO_2-Attached Ru_3 Complexes for Selective Alcohol Oxidation	Satoshi Muratsugu, Min Hwee Lim, Takahiro Itoh, Wipavee Thumrongpatanaraks, Mio Kondo, Shigeyuki Masaoka, T. S. Andy Hor, Mizuki Tada	Institute for Molecular Science, Nagoya University, National University of Singapore, Mahidol University, Institute of Materials Research and Engineering, Nagoya University
15:00-15:20	O-C14	One-Pot Synthesis of Amides over Bifunctional $Rh(OH)_x$/Titanosilicate Catalysts	Le Xu, Hong-Gen Peng, Haihong Wu, Kun Zhang, Peng Wu	East China Normal University
15:20-16:00	IL-C03	Ammonia Synthesis over Ru-Deposited Electride Catalyst	Michikazu Hara, Masaaki Kitano, Hideo Hosono	Tokyo Institute of Technology

03-Jun-2014, Tuesday, Room D

Chairs: Boris N. Kuznetsov, Tomoo Mizugaki				
10:10-10:30	O-D07	One-Pot Conversion of Furfural into 1,5-Pentanediol over Pd-Added Ir-ReO_x/SiO_2 Bifunctional Catalyst	Sibao Liu, Masazumi Tamura, Yoshinao Nakagawa, Keiichi Tomishige	Tohoku University
10:30-10:50	O-D08	Production of 5-Hydroxymethylfurfural from Glucose over Calcium Phosphate Catalysts in Water Solvent	Naoki Mimura, Aritomo Yamaguchi, Osamu Sato, Takaaki Hanaoka, Masayuki Shirai	National Institute of Advanced Industrial Science and Technology (AIST), JST PRESTO
10:50-11:10	O-D09	New Generation Biofuels: γ-Valerolactone into Valeric Esters in One Pot	Carine E. Chan-Thaw,Milind Dangate, Nicola Scotti, Antonella Gervasini, Rinaldo Psaro, Federica Zaccheria, Nicoletta Ravasio	Università di Milano, ISTM CNR
Chairs: Aritomo Yamaguchi, Naoki Mimura				
11:10-11:30	O-D10	Coupling Transfer Hydrogenation and Hydrolysis Reactions with Zeolites for The Production of Gamma-Valerolactone from Furfural	Linh Bui, Helen Luo, William R. Gunther, Yuriy Román Leshkov	Massachusetts Institute of Technology
11:30-11:50	O-D11	Vapor-Phase Conversion of Methyl Levulate to Produce γ-Valerolactone over Cu-based Catalysts	Takahiro Katori, Yasuhiro Yamada, Satoshi Sato	Chiba University
11:50-12:10	O-D12	Surface Reactions of Polyols on Metal Oxides and Supported Metal Catalysts	John R. Copeland, Guo Shiou Foo, Xuerong Shi, David S. Sholl, Carsten Sievers	Georgia Institute of Technology
Chairs: Carsten Sievers, Satoshi Sato				
14:40-15:00	O-D13	Adsorption and Depolymerization of Biomass-Derived Polysaccharides Using Weak-Acid Surfaces as Catalysts	Po-Wen Chung, Alexandre Charmot, Alexander Katz	University of California, Berkeley
15:00-15:20	O-D14	Transfer Hydrogenation of Cellulose Based Oligomers over Carbon Supported Ru Catalyst in A Fixed Bed Reactor	Abhijit Shrotri, Hirokazu Kobayashi, Akshat Tanksale, Atsushi Fukuoka, Jorge Beltramini	University of Queensland, Hokkaido University, Monash University
15:20-15:40	O-D15	Connotation of Careful Designing of Heterogeneous Catalysts on The Efficient Valorization of Bio-Polymers	Paresh Dhepe, A. K. Deepa, Prasenjit Bhaumik	CSIR-National Chemical Laboratory
15:40-16:00	O-D16	From Cellulose to Valuable Products via One-Pot Hydrogenolysis over Carbon-Supported Tungsten Catalysts with Nickel or Ruthenium	Katarina Fabicovicova, Martin Lucas, Peter Clausa	Technische Universität Darmstadt

04-Jun-2014, Wednesday, Room A

Chair: Takashiro Muroi				
09:00-09:50	PL-06	Simulation of Catalyzed Urethane Polymerization--An Approach to Expedite Commercialization of Bio-Based Materials	Galen J. Suppes	University of Missouri
Chairs: Vladislav A Sadykov, Ryuji Kikuchi				
10:10-10:30	O-A19	Vacuum Gas Oil Hydrocracking Test in A Semi-Batch Reactor: Study of Reaction Mechanisms and Vapor-Liquid Equilibrium	Reynald Henry, Barbara Browning, Pavel Afanasiev, Françoise Couenne, Gregory Lapisardi, Gerhard Pirngruber, Melaz Tayakout-Fayolle	Institut de Recherches sur la Catalyse et l'Environnement de Lyon, IFP Energies Nouvelles
10:30-10:50	O-A20	Effect of Water on Carbon Dioxide Reforming of Methane over The Bimetallic Co-, Ni-, and Fe-Based Promoted by Pt and Alumina Supported Catalysts	Sholpan S. Itkulova, Gaukhar D. Zakumbaeva, Yerzhany. Nurmakanov	D.V. Sokolsky Institute of Organic Catalysis and Electrochemistry
10:50-11:30	IL-A02	The Influence of Catalyst Structure and Base Promotion on Syngas Conversion over Supported Molybdenum Carbide Nanoclusters	Robert J. Davis, Heng Shou, Kehua Yin	University of Virginia
Chairs: Melaz Tayakout-Fayolle, Koji Omata				
11:30-11:50	O-A21	Experimental and Numerical Investigations on Structured Catalysts for Methane Steam Reforming Intensification	Vincenzo Palma, Antonio Ricca, Eugenio Meloni, Marino Miccio, Paolo Ciambelli	University of Salerno
11:50-12:10	O-A22	Structured Catalysts for Steam/Autothermal Reforming of Biofuels: from Design of Active Components to Pilot-Scale Reactors	Vladislav A. Sadykov, Natalia V. Mezentseva, Yulia E Fedorova, Anton I. Lukashevich, Vladimir V. Pelipenko, Valerii A Kuzmin, Mikhail N. Simonov, Svetlana N. Pavlova, Marina V. Arapova, Arcady V. Ashchenko, Tamara A. Krieger, Lyudmila N. Bobrova, E.Sadovskaya, Vitalii S. Muzykantov, A.Zadesenets, O.Smorygod, A.-C.Rogere	Boreskov Institute of catalysis, Novosibirsk State University, Nikolayev Institute of Inorganic Chemistry, Powder Metallurgy Institute, University of Strasbourg
Chair: Kazunari Domen				
13:30-14:20	PL-07	Fundamental Understanding of Photocatalysis and Photoelectrocatalysis for Solar Fuel Production	Can Li	Dalian Institute of Chemical Physics
Chairs: Yongdan Li, Akihiko Kudo				
14:40-15:00	O-A23	Overall Water Splitting on A Transition Metal Oxynitride, $LaTa_{2/3}Mg_{1/3}O_2N$, with An Absorption Edge at 600 nm	Tsuyoshi Takata, Chengsi Pan, Kazunari Domen	National Institute for Materials Science (NIMS), The University of Tokyo
15:00-15:20	O-A24	Modification Effects of Hexaphyrins on Water Splitting Activity of GaN:ZnO Photocatalyst	Hidehisa Hagiwara, Motonori Watanabe, Shintaro Ida, Tatsumi Ishihara	Kyushu University
15:20-15:40	O-A25	An Insight into The Role of Photogenerated Electrons in Photocatalysis: A Vibrational Spectroscopy and Electrical Conductivity Study	Steven S.C. Chuang, Mehdi Lohrasbi, Yang Chu	The University of Akron
15:40-16:00	O-A26	$NaTaO_3$ Photocatalysts Selectively Modified with Sr Dopant at A-Site or B-Site	Longjie An, Hiroshi Onishi	Kobe University
Chairs: Gaik-Khuan Chuah, Hiroshi Onishi				
16:20-16:40	O-A27	PdS-Modified NiS/CdS Composite as An Efficient Photocatalyst for H_2 Evolution under Visible Light Irradiation	Jianling Meng, Z.M.Yu, Yongdan Li	Tianjin University
16:40-17:00	O-A28	Selective Photocatalytic Conversion of Glycerol to Hydroxyacetaldehyde in Aqueous Solution on Facets Tuned TiO_2–Based Catalysts	Jun Li, Ruifeng Chong, Can Li	Dalian Institute of Chemical Physics
17:00-17:20	O-A29	Photocatalytic Production of Azoxybenzene and The Porous Support Effects	Fathima Zavahir, Huai Zhu	Queensland University of Technology

04-Jun-2014, Wednesday, Room B

Chairs: Philip Gibson, Tohru Setoyama				
10:10-10:30	IO-B05	Higher Productivity in A Scaled-Up Pilot GTL Unit with Zeolite-Containing Fischer-Tropsch Catalyst	Vladimir Z. Mordkovich, Eduard B. Mitberg, Vadim S. Ermolaev, Liliya V. Sineva, Igor G. Solomonik, Ekaterina Yu Asalieva, Ilya S. Ermolaev	Technological Institute for Superhard and Novel Carbon Materials, INFRATechnology Ltd.
10:30-10:50	IO-B06	Hydrogenation of Amide Acetals and Iminium Esters: Catalytic Reduction of Amides under Very Mild Conditions	Renat Kadyrov	Evonik Industries AG
10:50-11:10	IO-B07	Preparation of Architectured Catalysts Dedicated to Chemical Processes Limited by Heat and/or Mass Transfers	Laura Molina Jotel, Fabrice Rossignol, Raphael Faure, Caroline Bertail, Thierry Chartier, Pascal Del-Gallo	SPCTS Laboratory, UMR CNRS, Air Liquide
Chairs: Renat Kadyrov, Hiroyuki Kamata				
11:10-11:30	IO-B08	Direct Conversion of Ethylene to Propylene over Modified SSZ-13 Zeolite	Masashi Yamaguchi, Masahiro Hara, Mikio Hayashi, Naoki Harada, Bharathi Subramanian, Yumiko Kakuno, Daisuke Nishioka, Tohru Setoyama	Mitsubishi Chemical Group Science and Technology Research Center
11:30-12:10	IL-B04	Development and Commercialization of Gold–Nickel Oxide Nanoparticle Catalysts with A Core–Shell Structure for Production of Methyl Methacrylate	Ken Suzuki, Ken Matsushita, Chihiro Iitsuka, Jun-Ichi Miura, Takayuki Akaogi, Tatsuo Yamaguchi	Asahi Kasei Chemicals Corporation
Chairs: Vladimir Z Mordkovich, Hiroyuki Kamata				
14:40-15:20	IL-B05	Highly Active and Selective Fischer-Tropsch Catalysts	Heinz J. Robota, Laura Richard, Soumitra Deshmukh, Steve Leviness	Velocys
15:20-16:00	IL-B06	Hydrocarbon Synthesis via Fischer-Tropsch Chemistry: Sasol's Story, Past Present and Future	Philip Gibson	Sasol
Chairs: Heinz J. Robota, Hiroshi Toshima				
16:20-17:00	IL-B07	Ammonia Synthesis via Haber Bosch: Syngas Generation Story, Past, Present and Future	Matthew Humphrys	Johnson Matthey
17:00-17:20	IO-B09	A Robust Nickel Catalyst for Syngas Utilization	Hiroyuki Kamata, Yosinori Izumi, Nobuhiko Kubota, Chen Luwei, Tian Zhi Qun, Catherine Choong Kai Shin, Armando Borgna	IHI Corporation, Institute of Chemical & Engineering Sciences (ICES)

04-Jun-2014, Wednesday, Room C

Chairs: Olga V. Vodyankina, Tsunehiro Tanaka				
10:10-10:50	IL-C04	Atomically-Precise Gold-Based Clusters: Synthesis and Catalysis	Tatsuya Tsukuda	The University of Tokyo
10:50-11:10	O-C15	AuPd Nanoparticles Dispersed on Composite Titania/Graphene Oxide-Supports as A Highly Active Oxidation Catalyst	Jonathan K. Bartley, Jiacheng Wang, Simon A. Kondrat, Yingyu Wang, Qian Liu, Li Lu, Christopher J. Kiely, Graham J. Hutchings	Cardiff University, Shanghai Institute of Ceramics, Lehigh University
Chairs: Cyril Thomas, Shigeo Satokawa				
11:10-11:30	O-C16	Effect of Palladium Loading on The Catalytic Performance of AuPd@ZrO_2 Nanoreactors at The Reduction of 4-Nitrophenol	Brenda Acosta, Viridiana Evangelista, Sergio Fuentes, Andrey Simakov	Centro de Investigación Científica y de Educación Superior de Ensenada, Universidad Nacional Autónoma de México
11:30-11:50	O-C17	New Catalysts Based on Ultrasmall Ag Nanoparticles	Grigory V.Mamontov, V.V.Dutov, M.V.Grabchenko, T.S.Kharlamova, V.I.Sobolev, V.I.Zaikovskii,O.V.Vodyankina	Tomsk State University, Boreskov Institute of Catalysis
11:50-12:10	O-C18	Stability and Catalytic Activity of Silver Nanocubes, Influence of The Surface Adsorbed Species	Shiv Shankar Sangaru, Devon Rosenfeld, Haibo Zhu, Dalaver Anjum, Jean-Marie Basset	King Abdullah University of Science and Technology, The Dow Chemical Company
Chairs: Stanislaw Dzwigaj, Kaoru Fujimoto				
14:40-15:00	O-C19	Light Olefins Synthesis from CO_2 Hydrogenation over K-Promoted Fe-Co Bimetallic Catalysts	Ratchprapa Satthawong, Naoto Koizumi, Chunshan Song, Pattarapan Prasassarakich	Pennsylvania State University, Chulalongkorn University
15:00-15:20	O-C20	Electron Enrichment of Pt Surface Atoms by Au Atoms as The Origin of The Promoting Effect of Au in CO Oxidation Kinetics on Au-Pt/SiO_2	Cyril Thomas, Rachel P. Doherty, Jean-Marc Krafft, Christophe Methivier, Sandra Casale, Hynd Remita, Catherine Louis	Université P. & M. Curie (UPMC), Université Paris-Sud
15:20-15:40	O-C21	Exploring the Catalytic Landscape of Cu-SSZ-13 Using NO Oxidation and the Selective Reduction of NO with NH_3	Fabio H. Ribeiro, W. Nicholas Delgass, Rajamani Gounder, W.F. Schneider, Jeffrey T. Miller, Aleksey Yezerets, Anuj A. Verma, Atish A. Parekh, Shane A. Bates, Trunojoyo Anggara, Christopher Paolucci	Purdue University, University of Notre Dame, Argonne National Laboratory, Cummins Inc.
15:40-16:00	O-C22	Methanol Oxidative Decomposition over Various Oxides Supported Ag Catalysts and Its Reaction Mechanism	Naohiro Shimoda, Syota Umehara, Masaki Kasahara, Teruhisa Hongo, Atsushi Yamazaki, Shigeo Satokawa	Seikei University, Waseda University
Chairs: Fabio H. Ribeiro, Yuji Wada				
16:20-16:40	O-C23	Catalytic Removal of Chloroorganic Compounds from Water	Anna Śrębowata, Izabela.I. Kamińska, Dmytro Lisovystkiy, Wioletta Raróg-Pilecka	Institute of Physical Chemistry, Warsaw University of Technology
16:40-17:00	O-C24	Trichloroethylene Oxidation by Non-Thermal Plasma with A Cryptomelane in A Post-Plasma Configuration	Minh Tuan Nguyen, Jean-Francois Lamonier, Jean-Marc Giraudon, Arne M. Vandenbroucke, Nathalie De Geyter, Christophe Leys, Rino Morent	Université Lille 1, Ghent University
17:00-17:20	O-C25	Hydrodechlorination of 1,2-Dichloroethane over Monometallic Ni BEA and Bimetallic Cu Ni BEA Zeolite Catalysts	Stanislaw Dzwigaj, Anna Śrębowata, Rafal Baran, Sandra Casale, Dmytro Lisovytskiy, Izabela I. Kamińska, Dariusz Łomot	Université P. & M. Curie (UPMC), Université Paris 06, CNRS-UMR, Institute of Physical Chemistry, PAS, AGH University of Science and Technology

04-Jun-2014, Wednesday, Room D

Chairs: Qihua Yang, Shogo Shimazu				
10:10-10:30	O-D17	Direct C-C and C-N Bond Formations Using Dehydrogenation/Hydrogenation Properties of Multifunctional Ni Catalyst	Ken-Ichi Shimizu, Kenichi Kon, S. M. A. Hakim Siddiki	Hokkaido University, Kyoto University
10:30-10:50	O-D18	Catalytic Ammoxidation of Allyl Alcohol - A Green Route to Acrylonitrile	Benjamin Katryniok, Cyrille Guillon, Carsten Liebig, Franck Dumeignil, Wolfgang Hölderich, Sébastien Paul	Ecole Centrale de Lille, Unité de catalyse et Chimie du Solide, Université Lille Nord de France, Institut Universitaire de France, TCHK Hölderich-Consultancy
10:50-11:10	O-D19	A Novel Cu-Chromite Supported Gold Nanoparticle Catalyst with Unprecedented Performance in Ethanol Oxidation to Acetaldehyde	Peng Liu, Weiyu Song, Emiel J. M. Hensen	Eindhoven University of Technology
Chairs: Paresh Dhepe, Kenichi Shimizu				
11:10-11:30	O-D20	A Novel Green Synthetic Procedure for Enaminals by Gold-Catalyzed Heterogeneous Aerobic Dehydrogenative Amination of α,β-Unsaturated Aldehydes	Xiongjie Jin, Kazuya Yamaguchi, Noritaka Mizuno	The University of Tokyo
11:30-11:50	O-D21	Cyanosilylation of Benzaldehyde over Perovskite-Type Oxide Catalysts Prepared by Thermal Decomposition of Heteronuclear Cyano Complex Precursors	Syuhei Yamaguchi, Takahisa Okuwa, Hidenori Yahiro	Ehime University
11:50-12:10	O-D22	Asymmetric Catalysis in Nanoreactor with Confined Molecular Catalysts	Qihua Yang	Dalian Institute of Chemical Physics
Chairs: Masami Kamigaito, Takeshi Shiono				
14:40-15:00	O-D23	Heterogeneous Catalysis of Iridium Complex with Bipyridine-PMO as A Solid Ligand for Direct C-H Borylation of Arenes	Yoshifumi Maegawa, Kenji Hara, Yasutomo Goto, Atsushi Fukuoka, Shinji Inagaki	Toyota Central R&D Labs., Inc., JST/ACT-C, Hokkaido University
15:00-15:20	O-D24	Precise Synthesis of Fine Polyolefins by Introduction of Reactive Functionalities in Ethylene Copolymerization Using Half-Titanocenes	Wannida Apisuk, Kotohiro Nomura	Tokyo Metropolitan University
15:20-15:40	O-D25	Effects of Lewis Acid Halides Modified on The Activity of $TiCl_4/MgCl_2$/THF Catalyst for Ethylene Homo- and Co-Polymerization	Piyasan Praserthdam, W. Phiwkliang, B. Jongsomjit	Chulalongkorn University
15:40-16:00	O-D26	Immobilized Palladium Ion Containing Ionic Liquid as Catalysts for Carbonylation Reactions and Carbonylative Suzuki Cross-Coupling Reactions	Mayur V. Khedkar, Takehiko Sasaki, Bhalchandra M. Bhanage	Institute of Chemical Technology, The University of Tokyo
Chairs: Kotohiro Nomura, Piyasan Praserthdam				
16:20-16:40	O-D27	Terpolymerization of Ethene, 1-Octene and Norbornene with Ansa-Dimethyl-Sylilene(Fluorenyl)(tert-Butylamido) Dimethyltitanium Complex	Issei Kamei, Ryo Tanaka, Yuushou Nakayama, Takeshi Shiono	Hiroshima University
16:40-17:20	IL-D03	Controlled Radical Polymerization Assisted by Metal Catalysts	Masami Kamigaito, Kotaro Satoh	Nagoya University

05-Jun-2014, Thursday, Room A

Chair: Hideaki Hamada				
09:00-09:50	PL-08	Recent Progress in Automotive Catalyst	Hirohito Hirata	Toyota Motor Corporation
Chairs: Kazuhiko Maeda, Hiroshi Kominami				
10:10-10:30	O-A30	Synthesis and Photo-Epoxidation of Propylene over M-Ti/MCM-41 (M=V, Mo, Zn and Zr) Using Artificial Sunlight	Van-Huy Nguyen, Shawn D. Lin, Jeffrey Chi-Sheng Wu, Hsunling Bai	National Taiwan University of Science and Technology, National Taiwan University, Institute of Environmental Engineering, National Chiao Tung University
10:30-10:50	O-A31	Metal Oxide Photocatalysts and Photoelectrodes Aiming at Artificial Photosynthesis	Akihide Iwase, Akihiko Kudo	Tokyo University of Science
10:50-11:10	O-A32	Bismuth-Based Heterojunctions in Photocatalytic Degradation of Organic Molecules	Gaik-Khuan Chuah, Stephan Jaenicke, Aijuan Han	National University of Singapore
Chairs: Shigeru Ikeda, Ryu Abe				
11:10-11:30	O-A33	Effect of Doping on Photocatalytic and Photoelectrochemical Activity of $La_5Ti_2CuS_5O_7$ for Hydrogen Evolution	Jingyuan Liu, Takashi Hisatomi, Guijun Ma,Yosuke Moriya, Tsutomu Minegishi, Kazunari Domen	The University of Tokyo
11:30-11:50	O-A34	Searching for Effective Spinel Ferrite Photocatalyst	Andris Sutka, Martins Millers, Martins Vanags, Urmas Joost, Dmitrijs Jakovlevs, Ilona Pavlovska, Mihael Maiorov, Vambola Kisand, Inna Juhnevica, Janis Kleperis, Valdis Korsaks	Riga Technical University, University of Latvia, University of Tartu
11:50-12:10	O-A35	Hematite Photoanodes for PEC Water Splitting: Improving Efficiency through Hierarchical Nanostructures	Alberto Naldoni, Marcello Marelli, Alessandro Minguzzi, Claudio Evangelisti, Elisa Emilitri, Filippo Bossola, Rinaldo Psaro, Vladimiro Dal Santo	CNR–ISTM and ERIC Laboratory of “Catalytic materials for hydrogen production”, Università degli Studi di Milano, CNR–ISMAC, Istituto per lo Studio delle Macromolecole, Università dell'Insubria
Chairs: Zhenfeng Bian, Tsuyoshi Takata				
13:40-14:00	O-A36	Fabrication of Efficient $BaTaO_2N$ Photoanodes Havesting Wide Range of Visible Light ($\lambda > 600$ nm) for Water Splitting	Masanobu Higashi, Kazunari Domen, Ryu Abe	Kyoto University, The University of Tokyo, JSPS-NEXT Program
14:00-14:20	O-A37	Photoelectrochemical Water Splitting Using CdS-Modified Copper Chalcopyrite Thin Films Fabricated by Spray Pyrolysis	Wilman Septina, Shigeru Ikeda, Gunawan Gunawan, Takashi Harada, Michio Matsumura	Osaka University
14:20-15:00	IL-A03	Visible-Light Water Splitting and CO_2 Reduction by Modified Semiconductor Photocatalysts	Kazuhiko Maeda	Tokyo Institute of Technology

05-Jun-2014, Thursday, Room B

Chairs: Hong-Xin Li, Naoki Takahashi				
10:10-10:50	IL-B08	Cu-CHA Zeolite Materials for The Selective Catalytic Reduction of NO_x with NH_3:Catalyst Structure/Function and Mechanistic Studies	Charles H.F. Peden, Feng Gao, János Szanyi, Jahun Kwak, Márton Kollár, Yilin Wang	Pacific Northwest National Laboratory, Ulsan National Institute of Science and Technology
10:50-11:10	IO-B10	CO_2 Hydrogenation over Cu-Zn-Al Oxide + HB Zeolite Composite Catalyst for C_{2+} Hydrocarbon Synthesis under Low Pressure Using Two-Stage Reactor System	Masahiro Fujiwara, Yasuo Iizuka, Kumi Shiokawa, Hiroaki Sakurai	National Institute of Advanced Industrial Science and Technology (AIST)
Chairs: Charles H.F. Peden, Tatsuya Yoshikawa				
11:10-11:30	IO-B11	Value-Addition by Copper-Based Catalysts in Biomass Derived and Shale-Gas Derived Chemicals' Syntheses	Shingo Watanabe, Jeanette Simpson, Aalbert Zwijnenburg	Johnson Matthey
11:30-12:10	IL-B09	Advances of Zeolite Catalysts for SCR Applications in Diesel Emission Control	Hong-Xin Li, Bjorn Moden, William E. Cormier	Zeolyst International
Chairs: Do Heui Kim, Masahiro Fujiwara				
13:40-14:00	IO-B12	New Semi-Empirical Computational Analysis of Catalytic Reactions for Automobile	Yasuhiro Ikuta, Yasutaka Nagai, Naoki Takahashi	Toyota Central R&D Labs.
14:00-14:20	IO-B13	Effect of Pr Doping on Catalytic Properties of Oxide Ion Conductor, Zr-Nd-O, for Soot Oxidation	Takashi Baba, Koichiro Harada, Hiroshi Yamada, Tatsumi Ishihara, Akihide Takami	Mazda Motor Corp., Kyushu University
14:20-14:40	IO-B14	Monolith TWC Design Study for Emission Reduction During "Cold-Start"	Tatsuya Yoshikawa	Umicore Shokubai Japan Co.,Ltd.
14:40-15:00	IO-B15	Preparation and Characterization of Supported Precious Metal Catalysts with High Dispersion	Tomohiro Mitsui, Tatsuhiro Yamauchi, Takaki Mizuno, Akira Nakashima	JGC Catalysts and Chemicals Ltd.
Chairs: Yasuaki Okamoto, Atsushi Ishihara				
15:20-15:40	IO-B16	Catalyst Selection for Development of Chemical Processes Based on Renewable Raw Materials	Aalbert Zwijnenburg, Shingo Watanabe	Johnson Matthey
15:40-16:00	IO-B17	Hydrothermal Gasification of Algae over Ruthenium Catalyst	Doki Yamaguchi, Ben Leita, Juerg Rusterholz, Mike O'Shea, Alexander Yuen, Thomas Maschmeyer	CSIRO Earth Science and Resource Engineering, CSIRO Material Science and Engineering, University of Sydney
16:00-16:40	IL-B10	Nebula® Application for Economic Gain	Hiroshi Toshima, S. Melis, A. Battiston, B. Leliveld, P.P. Langerak, Yuji Noguchi	Albemarle Catalyst Company B.V., Nippon Ketjen Ltd.
Chairs: Doki Yamaguchi, Ryuji Kikuchi				
16:40-17:00	IO-B18	Fossil and Bio Carbon Fate in FCC Co-Refining	Laurent Gueudré, Nicolas Thegarid, Frédéric Meunier, Yves Schuurman, Claude Mirodatos	Institut de recherches sur la catalyse et l'environnement de Lyon (IRCELYON), CNRS-UCBL
17:00-17:20	IO-B19	Development of A Tandem Micro-Furnace Reactor – GC/MS for The Rapid Characterization of Catalysts	Chu Watanabe, Ichi Watanabe, Kazuko Matsui, Bob Freeman, Takashiro Muroi, Norio Teramae	Frontier Laboratories, Frontier Laboratories USA, Industrial Catalysts Laboratory, Tohoku University

05-Jun-2014, Thursday, Room C

Chairs: Chung-Yuan Mou, Junko N. Kondo				
10:10-10:30	O-C26	An in situ Spatially Resolved Method to Probe Gas Phase Reactions and Temperature through A Fixed Bed Catalyst	Jamal Touitou, Farid Aiouche, Robbie Burch, Christopher Hardacre, Colin Mcmanus, Kevin Morgan, Jacinto Sá, Jonathan Stewart, Alexandre Goguet	Queen's University Belfast, Lancaster University, Paul Scherrer Institute
10:30-10:50	O-C27	Revealing The Chemistry and Kinetics of The Methanol-To-Olefins Reaction by Operando Multi-Technique Spectroscopy	Javier Ruiz-Martínez, Qingyun Qian, Mohamed Mokhtar, Abdullah M.Asiri, Shaeel A.Al-Thabaiti, Suliman N.Basahelb, Bert M.Weckhuysen	Utrecht University, King Abdulaziz University
10:50-11:10	O-C28	An IR Operando Study of The NO_x SCR Efficiency of A Silver-Alumina Catalyst Prepared by Solid-State Reaction and Hydrothermal Treatment	Kevin Bechoux, Olivier Marie, Philippe Bazin, Carolina Petitto, Gerard Delahay, Severine Rousseau, Gilbert Blanchard, Marco Daturi	Université de Caen, Université de Montpellier, PSA Peugeot-Citroën SA
Chairs: David J. Willock, Momoji Kubo				
11:10-11:30	O-C29	Mechanistic Analysis of Positive Effect of Au on NO Reduction over Au-CuO_x/Al_2O_3 Catalysts by Operando UV/Vis Spectroscopy	Evgenii V. Kondratenko, Naoki Takahashi, Naoto Nagata, Masaya Ibe, Hirohito Hirata, Hiroaki Takahashi	Leibniz Institute for Catalysis at the University of Rostock, Toyota Central R&D Labs, Toyota Motor Corporation
11:30-11:50	O-C30	Oxygen Migration on The CeO_2 Surface Enhanced by The Strong Interaction with The Rh: A Quantum Chemical Molecular Dynamics Study	Ai Suzuki, Ryuji Miura, Nozomu Hatakeyama, Mark C. Williamsa, Akira Miyamoto	Tohoku University
11:50-12:10	O-C31	Catalytic Reduction of Polar Substrates Without Metals. A Thermodynamic & Kinetic Study of Heterolytic H_2 Activation by Vacancies in Frustrated Lewis Pairs	Don Camaioni, Mark Bowden, Sean Whittemore, Kshitij Parab, Abhi Karkamkar, Herman Cho, Bojana Ginovska-Pangovska, Greg Schenter, Shawn Kathmann, Tom Autrey	Pacific Northwest National Laboratory
Chairs: Marco Daturi, Mitsutaka Okumura				
13:40-14:20	IL-C05	Strong Metal-Support Interaction (SMSI) Effect over ZnO Supported Gold Nanocatalyst	Chung-Yuan Mou	National Taiwan University
14:20-14:40	O-C32	A Novel Acidity Scale for Liquid Acids by ^{31}P NMR Chemical Shifts of Phosphine Oxides	Shing-Jong Huang, Surendhar Reddy Chepyala, Chao-Ping Hsu, Pei-Hao Wu, Shang-Bin Liu	National Taiwan University, Bioinformatics program, TIGP, Academia Sinica, National Yang-Ming University, Institute of Chemistry, Institute of Atomic and Molecular Sciences
14:40-15:00	O-C33	Lactic Acid Dehydration over Oxide Catalysts: First Principle Re-Action Mechanisms Study	Jean-Francois Paul, Catherine Hammaecher	Unité de Catalyse et de Chimie du Solide, UMR CNRS, Université Lille 1
Chairs: Shang-Bin Liu, Kazu Okumura				
15:20-16:00	IL-C06	Chasing Changing Nanoparticles as They Work: Operando X-Ray Studies of Supported Metal Catalysts	Mark Newton	European Synchrotron Radiation Facility (ESRF)
16:00-16:20	O-C34	XAS and APPES Study of SMSI Effect in Nickel-Ceria Catalytic Systems	Alfonso Caballero, Juan P. Holgado, Rosa Pereñiguez, Fatima Ternero, Victor M. Gonzalez-Delacruz	Instituto de Ciencia de Materiales de Sevilla, University of Sevilla
Chairs: Tom Autrey, Momoji Kubo				
16:20-16:40	O-C35	Mars Van Krevelen Oxidation Using Supported Au/Pd Nanoparticles; A DFT Study	Soon Wen Hoh, Liam Thomas, David J. Willock	Cardiff University
16:40-17:20	IL-C07	Formic Acid Decomposition on Transition Metal Surfaces: Fundamental Mechanistic Aspects	Manos Mavrikakis, J. Dumesic, J. Scaranto, S. Singh, L. Roling, S. Li, J. Herron, R. Carrasquillo, B. O'Neill, G. Peng	University of Wisconsin

05-Jun-2014, Thursday, Room D

Chairs: Katsuhiro Isozaki, Kentaro Teramura				
10:10-10:30	O-D28	New Approaches to Simulation of Enzymatic Reactions: Mimetic Catalysis	Tofig M. Nagiev	Nagiev Institute of Chemical Problems of National Academy of Sciences
10:30-10:50	O-D29	Non-Equilibrium Local Heating as An Origin of Non-Thermal Special Effects of Microwaves in Organic Reactions on Surfaces	Yuji Wada, Dai Mochizuki, Eiichi Suzuki, Masashi Shitara, Masato M.Maitani, Yasunori Tsukahara, Tomohisa Yamauchi	Tokyo Institute of Technology, Osaka University
10:50-11:10	O-D30	Precise Control of The Mesostructure of $Sb_2O_4/VSbO_4$ Catalysts Prepared by Electron Beam Lithography and Their Catalytic Properties	Kiyotaka Asakura, Hua Huang, Takahiro Wada, Yui Haraguchi, Hiroko Ariga, Satoru Takakusagi	Hokkaido University, Tokyo Medical and Dental University
Chairs: Tofig M. Nagiev, Shigeru Sugiyama				
11:10-11:30	O-D31	Dehydrogenation of Propane over Pt-Sn/SiO_2 Catalysts Prepared by Direct Reduction Method: Effects of Pt/Sn Ratio and Reduction Temperature	Lidan Deng, Hiroki Miura, Tetsuya Shishido, Saburo Hosokawa, Kentaro Teramura, Tsunehiro Tanaka	Kyoto University, Tokyo Metropolitan University
11:30-11:50	O-D32	Application of Halo Hydrocarbons for The Redispersion of Gold	Kevin Morgan, Robbie Burch, Muhammad Daous, Juan José Delgado, Alexandre Goguet, Christopher Hardacre, Lachezar A. Petrov, David W. Rooney	Queen's University Belfast, King Abdulaziz University, Universidad de Cádiz
11:50-12:10	O-D33	Enhanced Catalysis of Self-Assembled Monolayer-Capped Gold Nanoparticles	Katsuhiro Isozaki, Tomoya Taguchi, Kosuke Ishibashi, Hikaru Takaya, Masaharu Nakamura, Kazushi Miki	Kyoto University, National Institute for Materials Science (NIMS), University of Tsukuba
Chairs: Minkee Choi, Ichiro Yamanaka				
13:40-14:00	O-D34	The Direct Synthesis of Hydrogen Peroxide Using Platinum Promoted AuPd Catalysts	Jennifer K.Edwards, James Pritchard, Marco Piccinini, Peter Miedziak, Albert F.Carley, Qi He, Christopher K.Kiely, Graham J.Hutchings	Cardiff University, Lehigh University
14:00-14:20	O-D35	A Peculiar Activity of Bimetallic Gold/Palladium Alloy Nanoclusters in Suzuki-Miyaura Type Reaction: Surface to Leaching Concept	Raghu Nath Dhital, Hidehiro Sakurai	Institute for Molecular Science
14:20-14:40	O-D36	High Catalytic Activity of Finely Tuned Ru-Supported Nanoparticles in Ammonia Synthesis at Low Temperature and Low Pressure Conditions	Camila Fernández, Eric Gaigneaux, Clément Sanchez, Capucine Sassoye, Patricio Ruiz	Institute of Condensed Matter and Nanosciences, Université catholique de Louvain, Laboratoire de Chimie de la Matière Condensée de Paris
14:40-15:00	O-D37	Selectivity Enhancement in Partial Hydrogenation of Arenes Using Ru-Nanoparticles Coated with Thin Ionic Liquid Films	Marc Williams, Marco Haumann, Peter Wasserscheid	FAU Erlangen-Nuremberg
Chairs: Hiroyuki Yasuda, Yoshihiro Kubota				
15:20-15:40	O-D38	Selective Hydrogenation of Acetylene on Pd/SiO_2 in Liquid Phase: A Comparison with SCILL Type Catalyst	Ruijun Hou, Xiaocheng Lan, Tiefeng Wang	Tsinghua University
15:40-16:00	O-D39	Assessing The Catalytic Functions of Hydrogen Spillover with Pt-Encapsulated Aluminosilicates Having Controlled Nanostructures	Minkee Choi, Juhwan Im, Hyeyoung Shin, Hyungjun Kim	Korea Advanced Institute of Science and Technology
16:00-16:20	O-D40	Aryl C-Glycoside Synthesis Based on Iron-Catalyzed Cross-Coupling Reaction of Arylzinc Reagents	Laksmikanta Adak, Shintaro Kawamura, Gabriel Toma, Ho Chuen Li, Katsuhiro Isozaki, Hikaru Takaya, Tony K. M. Shing, Masaharu Nakamura	Kyoto University, The Chinese University of Hong Kong
Chairs: Atsushi Urakawa, Hiromi Yamashita				
16:20-16:40	O-D41	Azaphosphatranes in Confined Space as Highly Efficient Organocatalysts for The Synthesis of Cyclic Carbonates from CO_2 and Epoxides	Véronique Dufaud, Bastien Chatelet, Lionel Joucla, Jean-Pierre Dutasta, Alexandre Martinez	Université Claude Bernard Lyon1, École Normale Supérieure de Lyon
16:40-17:20	IL-D04	New Catalytic Processes for Halogen Recycling	Javier Perez-Ramirez	ETH Zurich

05-Jun-2014, Thursday, Room E

Chairs: Yan Liu, Yasushige Kuroda				
10:10-10:30	O-E01	Spatial Distribution of Pt Chemical Species of Pt/C Cathode Catalysts in Polymer Electrolyte Fuel Cells by A Nano-Beam XAFS Technique	Shinobu Takao, Oki Sekizawa, Takuma Kaneko, Takashi Yamamoto, Shinichi Namagatsu, Kotaro Higashi, Yoshiaki Imaizumi, Gabor Samjeske, Kensaku Nagasawa, Tomoya Uruga, Yasuhiro Iwasawa	The University of Electro-Communications, The University of Tokushima, Japan Synchrotron Radiation Research Institute, Spring-8
10:30-10:50	O-E02	Framework Al-Lewis Sites in Zeolites. ^{27}Al-{1H} REDOR (3Q) MAS NMR and QM/POT Study of and Perturbed Al Atoms	Jiri Dedecek, Stepan Sklenak, Petr Klein, Petr Sazama, Martina Urbanova, Libor Kobera, Jiri Brus	J. Heyrovský Institute of Physical Chemistry, Institute of Macromolecular Chemistry
10:50-11:10	O-E03	Evidence for Dual Adsorption Sites in SAPO-34 for Gases in The MTO Process, and The Significance of This for The Calculation of Surface Concentrations	Yasukazu Kobayashi, Fei Wang, Yuxin Li, Yao Wang, Dezheng Wang	Tsinghua University, Peking University
Chairs: Anna Maria Venezia, Shinobu Takao				
11:10-11:30	O-E04	Identification of The Acid Sites Amorphous Silica-Aluminas by FTIR and XAS	Juliette Blanchard, Mireille Makhoul, Yannick Millot, Jean-Marc Krafft, Toshikazu Takahashi, Hiroyuki Yasuda, Asma Tougerti, Sylvain Cristol	Université P. & M. Curie (UPMC), National Institute of Advanced Industrial Science and Technology (AIST), Université des Sciences et Technologies de Lille
11:30-11:50	O-E05	^{27}Al-^{29}Si CPMAS Evidence for The Existence of Framework Six-Coordinated Al in Al-MCM-41	Toshikazu Takahashi, Yannick Millot, Juliette Blanchard, Shigenobu Hayashi, Hiroyuki Yasuda	National Institute of Advanced Industrial Science and Technology (AIST), Surface Reactivity Laboratory, Université P. & M. Curie(UPMC)
11:50-12:10	O-E06	Unique Active Site Structure for C_2 Oxygenated Compound Formation in CO-H_2 Reaction over Ordered Mesoporous CeO_2 Supported Rh Catalysts	Shuichi Naito, Tomotsugu Shingaki, Tomoki Hakeda, Akihiro Yoshida	Kanagawa University
Chairs: Ye Wang, Masahiko Matsukata				
13:40-14:00	O-E07	CH_4 Partial Oxidation over Ni-La_2O_3, Ni-$CeLaO_x$ and Ni-CeO_2	Anna Maria Venezia, Valeria La Parola, Giuseppe Pantaleo, Paolo Calatozzo, Raja Bal	ISMN-CNR, University of Palermo, Indian Institute of Petroleum
14:00-14:20	O-E08	Reactive Intermediates Formed in Dioxygen-Activated Cu–ZSM-5 with or Without Water Molecule: A Computational Study	Takashi Yumura, Yuuki Hirose, Yasushige Kuroda, Hisayoshi Kobayashi	Kyoto Institute of Technology, Okayama University
14:20-14:40	O-E09	CO_2 Involved Catalytic Oxidative Dehydro-genation of 1-Butene to 1,3-Butadiene	Wenjin Yan, Yan Liu	Institute of Chemical & Engineering Sciences
14:40-15:00	O-E10	C-H Bond Activation by Transition Metal Oxides. Atomistic Understanding of Support Effects	Thomas Kropp, Joachim Paier, Joachim Sauer	Humboldt University
Chairs: Dezheng Wang, Takayuki Komatsu				
15:20-15:40	O-E11	Selective Epoxidation of Allyl Alcohol to Glycidol Using TS-1: The Effect of Solvent and Organic Impurities	Luke Harvey, Eric Kennedy, Bogdan Dlugogorski, Michael Stockenhuber	University of Newcastle
15:40-16:00	O-E12	Aerobic Oxidation of Cyclohexanones to Cyclic Enones, Phenols, and Phenyl Ethers over Supported Palladium Catalysts	Zhenzhong Zhang, Taishin Hashiguchi, Hironori Ohashi, Takushi Yokoyama, Tetsuo Honma, Akiyuki Hamasaki, Tamao Ishida, Makoto Tokunaga	Kyushu University, Japan Synchrotron Radiation Research Institute/SPring-8
16:00-16:20	O-E13	Aerobic Oxidation of Allyl Alcohol at Ambient Conditions Using Supported Nanoparticle Gold Catalyst	Agata Gallas-Hulin, Ramakrishna Kotni, Martin Nielsen, Søren Kegnæsa	Technical University of Denmark, Harvard University
Chairs: Hiroshi Ushiyama, Syuhei Yamaguchi				
16:20-16:40	O-E14	Au-Pd Alloy Nanoparticles Supported on Carbon Nanotubes as Efficient Catalysts for Aerobic Oxidation of 5-Hydroxymethyl-furfural to 2,5-Furandicarboxylic Acid	Xiaoyue Wan, Chunmei Zhou, Weiping Deng, Qinghong Zhang, Yanhui Yang, Ye Wang	Xiamen University, Nanyang Technological University
16:40-17:00	O-E15	Highly Efficient Aerobic Oxidation of Amines to Imines over A Palladium–Lead Intermetallic Compound Catalyst	Shinya Furukawa, Akifusa Suga, Takayuki Komatsu	Tokyo Institute of Technology
17:00-17:20	O-E16	Highly Efficient Oxygenation with H_2O_2 Catalyzed by A Protonated Tetranuclear Peroxotungstate	Ryo Ishimoto, Keigo Kamata, Noritaka Mizuno	The University of Tokyo

06-Jun-2014, Friday, Room A

Chairs: Wenzhong Wang, Bunsho Ohtani				
09:10-09:30	O-A38	Calcium Titanate Photocatalyst Prepared by A Flux Method for Reduction of Carbon Dioxide with Water	Hisao Yoshida, Like Zhang, Masumi Sato, Takeshi Morikawa, Tsutomu Kajino, Takeshi Sekito, Shinichi. Matsumoto, Hirohito Hirata	Kyoto University, Nagoya University, Toyota Central R&D Labs., Inc., Toyota Motor Corporation
09:30-09:50	O-A39	Photocatalytic Conversion of CO_2 in Water over Various Layered Double Hydroxides (LDHs)	Shoji Iguchi, Hirotaka Ishii, Kentaro Teramura, Saburo Hosokawa, Tsunehiro Tanaka	Kyoto University, JST-PRESTO
09:50-10:10	O-A40	Preparation and Characterization of The Ti^{3+} Self-Doped TiO_2-Graphene with Enhanced Photocatalysis	Jinlong Zhang, Mingyang Xing, Xiaolong Yang, Wenzhang Fang	East China University of Science and Technology
10:10-10:30	O-A41	TiO_2 Mesocrystals for Improved Photocatalysis	Zhenfeng Bian, Jian Zhu, Hexing Li	Shanghai Normal University
Chairs: Jinlong Zhang, Hisao Yoshida				
10:50-11:10	O-A42	Metal-Semiconductor Hybrid Nanostructures for Plasmon-Enhanced Photocatalytic Activity	Can Xue, Shaowen Cao	Nanyang Technological University
11:10-11:30	O-A43	Integration of Solar Energy Conversion with Synergistic Low Temperature Catalysis in Mixed Conductor Catalyst	Wenzhong Wang, Dong Jiang	Shanghai Institute of Ceramics
11:30-11:50	O-A44	Efficient Photocatalytic Stereoselective n-Cyclization of L-Lysine by Hollow Coreshell Silica-Titania Particles	Bunsho Ohtani, Sheela Chandren	Hokkaido University
11:50-12:10	O-A45	Development of La and Rh Co-Doped $SrTiO_3$ and Its Application as A H_2 Evolution Photocatalyst in Z-Scheme Water Splitting	Qian Wang, Takashi Hisatomi, Su Su Khine Ma, Kazunari Domen	The University of Tokyo

06-Jun-2014, Friday, Room B

Chairs: Zhen Zhao, Atsushi Satsuma				
09:10-09:30	O-B11	Critical Role of Water in The Direct Oxidation of CO and Hydrocarbons in Diesel Exhaust Aftertreatment Catalysis	Roberto Caporali, Christopher Hardacre, Robbie Burch, Alexandre Goguet, Sarayute Chansai, Loredana Mantarosie, David Thompsett	Queen's University Belfast, Johnson Matthey Technology Centre
09:30-09:50	O-B12	An Investigation of The Promotional Effect of An Atmospheric Pressure, Non-Thermal Plasma on The NO_x Reduction Reaction over Ag/Al_2O_3	Cristina Stere, Wameedh Adress, Robbie Burch, Sarayute Chansai, Alex Goguet, Bill Graham, Chris Hardacre	Queen's University Belfast
09:50-10:10	O-B13	A Theoretical Study of The Role of Acidic Proton in The Decomposition of NO over Dimeric Cu(I) Active Sites in Cu-ZSM-5 Catalyst	P. K. Sajith, Yoshihito Shiota Kazunari Yoshizawa	Kyushu University
10:10-10:30	O-B14	Rational Preparation of Bimetallic Ag-Au Catalysts for The Hydrocarbon-SCR of NO_x : Coimpregnation vs. Successive Impregnation Method	Pascal Granger, Duy Luan Nguyen, Jean-Sebastien Girardon, Chritophe Dujardin, Christine Lancelot, Anne-Sophie Mamede, Pavan More, Mohan K. Dongare, Shubanghi Umbarkar	Université Lille1 Sciences et Technologies, National Chemical Laboratory
Chairs: Christopher Hardacre, Yasutake Teraoka				
10:50-11:10	O-B15	Characteristics of Pt-BaO Loaded on Hydrotalcite (HT)-Derived Support for NO_x Storage Reduction Catalysis	Soyeon Jeong, Eun Hur, Chungheon Ban, Tae Hwan Im, Jonghyun Kim, Do Heui Kim	Seoul National University
11:10-11:30	O-B16	Selective Catalytic Reduction of Nitric Oxide with NH_3 on Ti-Porphyrin Catalyst: A Density Functional Theory Study	Supawadee Namuangruk, Phornphimon Maitarad	National Science and Technology Development Agency, Shanghai University
11:30-11:50	O-B17	One-Pot Synthesis of Core-Shell $Pt(Au)@CeO_{2-\delta}$ Nanoparticles Supported on 3D Ordered Marcoporous ZrO_2 with High Catalytic Activity for Soot Combustion	Yuechang Wei, Zhen Zhao, Jinqing Jiao, Jian Liu	China University of Petroleum
11:50-12:10	O-B18	Effect of Particle Size on The Oxidation of CO and C_3H_6 over Pd/Al_2O_3	Mina Todo, Yuichiro Nakamura, Masatomo Hattori, Masaaki Haneda	Nagoya Institute of Technology

06-Jun-2014, Friday, Room C

Chairs: Yunig Huo, Masaaki Haneda				
09:10-09:30	O-C36	Improved Hydrogen Storage Capacity by Hydrogen Spillover and Fine Structural Characterization of MIL-100 Metal Organic Frameworks	Abhijit Krishna Adhikari, Chao-Lung Chiang, Kuen-Song Lin, Sihany Yu	Yuan Ze University
09:30-09:50	O-C37	Nano and Microscale Engineering of MoS_2-Based Catalyst for Syngas to Ethanol Conversion	Muxina Konarova, Jorge Noberto Beltramini, Fengqiu Tang	The University of Queensland
09:50-10:10	O-C38	Catalytic Activity and Durability of A Mesoporous Silica-Coated Ni-Alumina-Based Catalysts for Selective CO Methanation	Toshihiro Miyao, Weihua Shen, Katsuhiko Hayashi, Kazutoshi Higashiyama, Noboru Hashimoto, Masahiro Watanabe	University of Yamanashi, Mitsui Mining & Smelting Co.,Ltd.
10:10-10:30	O-C39	Effect of External Magnetic Field on Activity of Fe/MCM-41 Catalysts in CO_2 Hydrogenation	Metta Chareonpanich, Sirapassorn Kiatphuengporn, Pongsakorn Jantaratana	Kasetsart University
Chairs: Jorge Noberto Beltramini, Toshihiro Miyao				
10:50-11:10	O-C40	Direct Synthesis of Dimethyl Ether from Carbon Dioxide over Copper Alumina Catalysts Prepared Using The Sol-Gel Method	Kaoru Takeishi, Yutaro Wagatsuma	Shizuoka University
11:10-11:30	O-C41	Production of Hydrocarbons of Diesel Fraction from Oils and Fats through The Decarboxylation over Solid Base Catalysts	Haruki Tani, Yayoi Murakami, Kenji Asami, Kaoru Fujimoto	The University of Kitakyushu
11:30-11:50	O-C42	Combination of Visible-Light BiOBr Photocatalysis and Membrane Distillation in Photocatalytic Membrane Reactor	Jiahui Zhong, Zongli Xie, Yuning Huo, Hexing Li, Manh Hoang	Shanghai Normal University, CSIRO Materials Science and Engineering
11:50-12:10	O-C43	Hydrogen Formation over $Pt/Au/WO_3$ Photocatalyst under Irradiation of Visible Light	Atsuhiro Tanaka, Keiji Hashimoto, Hiroshi Kominami	Kinki University

06-Jun-2014, Friday, Room D

Chairs: Teruaki Tago, Kenji Wada				
09:10-09:30	O-D42	Nickel Based Catalysts for Hydrogen Production from Ethanol at Room Temperature	Louise Jalowiecki-Duhamel, Wenhao Fang, Cyril Pirez, Sébastien Paul, Mickaël Capron, Hervé Jobic, Franck Dumeignil	Université Lille Nord de France, Unité de Catalyse et Chimie du Solide, Ecole Centrale de Lille, IRCELYON, Institut Universitaire de France
09:30-09:50	O-D43	On The Effect of Preparation of Ni-Hydrotalcites Based Catalysts for Low Temperature Dry Reforming of Methane	Radoslaw Debek, Katarzyna Zubek, Monika Motak, Patrick Da Costa, Teresa Grzybek	AGH University of Science and Technology, Université P. & M. Curie (UPMC), Sorbonne Universités
09:50-10:10	O-D44	Towards Full One-Pass Conversion of CO_2 to Methanol and Methanol-Derived Products	Atsushi Urakawa, Atul Bansode	Institute of Chemical Research of Catalonia (ICIQ)
10:10-10:30	O-D45	Diphenyl Carbonate Synthesis by Pd(in-situ NHC) Electrocatalyst at Au-Anode	Ryoichi Kanega, Hitoshi Ogihara, Ichiro Yamanaka	Tokyo Institute of Technology
Chairs:Tsuneji Sano, Yasutaka Kuwahara				
10:50-11:10	O-D46	Development of Ceria-Supported Rhodium and Iridium Catalysts for Silylative Coupling Reactions	Kenji Wada, Shinji Tsukada, Hiroki Miura, Saburo Hosokawa, Masashi Inoue, Ryu Abe	Kagawa University, Kyoto University
11:10-11:30	O-D47	Formation and Catalysis of The Thermally Stable Au Nanoparticles Generated on The USY Zeolite	Kazu Okumura, Chika Murakami, Takashi Sanada, Naonobu Katada	Tottori University
11:30-11:50	O-D48	Preparation of MTW Type Zeolite Membrane for The Dehydration of The Organic Solution by Pervaporation	Yaqi Zhang, Aya Hirata, Yuta Nakasaka, Teruoki Tago, Takao Masuda	Hokkaido University
11:50-12:10	O-D49	Utilization of A Sulfocalixarene Linker for Design of Visible Light Sensitive TiO_2-Based Photocatalyst	Takashi Kamegawa, Sachiyo Matsuura, Hiroki Seto, Hiromi Yamashita	Osaka University, Kyoto University

06-Jun-2014, Friday, Room E

Chairs: Hisahiro Einaga, Junya Ohyama				
09:10-09:30	O-E17	Kinetics Study of Organic Substrates Wet Peroxide Oxidation over Cu-ZSM-5 and Fe-ZSM-5 Catalysts in Batch and Flow Reactor	Oxana P. Taran, A.N. Zagoruiko, A.B. Ayusheev, S.A. Yashnik, R.V. Prihod'Ko, V.V. Goncharuk, V.N. Parmon	Boreskov Institute of Catalysis SB RAS, Novosibirsk State Technical University, Dumansky Institute of Colloid and Water Chemistry NASU, Novosibirsk State University
09:30-09:50	O-E18	Low Temperature Oxidative Elimination of Ethylene over Pt Nanoparticles Supported on Mesoporous Silica	Kenji Hara, Chuanxia Jiang, Asushi Fukuoka	Hokkaido University
09:50-10:10	O-E19	Highly Sinter Resistant and Active Porous Silica Encapsulated Metal Nanoparticle Catalysts: Evolution of The Concept of Nanoreactors	R. Nandini Devi, Atul Prashar, Anupam Samanta, Sumona Ghosh	CSIR-National Chemical Laboratory
10:10-10:30	O-E20	Catalytic Properties of Ce Subnano-Particles Prepared by Pulsed Arc-Plasma	Satoshi Hinokuma, Hayato Kogami, Yasuo Katsuhara, Noriko Yamashita, Keita Ikeue, Masato Machida	Kumamoto University, Kyoto University, JST-PRESTO
Chairs: Shuji Tanabe, Kenji Hara				
10:50-11:10	O-E21	Catalytic Properties of Supported Platinum-Palladium Nanoparticles Prepared by Multi-Step Reduction Processes	Hisahiro Einaga, Miki Takaki, Yasutake Teraoka	Kyushu University
11:10-11:30	O-E22	The Adsorbed Species and Structural Behavior of Cerium Dioxide Catalyst under Reduction and Oxidation Conditions	Masahiro Kunisu, Ryoichi Kumazawa, Takeshi Nakagawa, Keiko Matsuda, Takashi, Yamamoto, Yoshihiro Takai	Toray Research Center
11:30-11:50	O-E23	Modification of an Activated Carbon for The Preparation of Metal-Free Carbon Catalysts for Liquid-Phase Reduction by Hydrazine	Hiroshi Yoshida, Hiroyuki Watanabe, Ayaka Katagiri, Shin-Ichiro Fujita, Masahiko Arai	Hokkaido University
11:50-12:10	O-E24	CO Oxidation over Ni@Ag/SiO_2 Prepared by Galvanic Deposition Method	Yuji Mahara, Hiroyuki Ishikawa, Junya Ohyama, Kyoichi Sawabe, Atsushi Satsuma	Nagoya University, Kyoto University