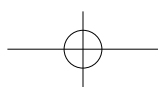


PROGRAM



Oral

The symbols of presentations are as follows :

PL	Plenary Lecture (50 min)
KN	Key Note Lecture (40 min)
OA OB	Oral Presentation (20 min)

August 4 (Sun)

Room A

Chairperson : Shigeyoshi SAKAKI (Kyoto University)

PL1 **Theory Can Provide Insights Unavailable from Experiments in Catalysis**
17:00-17:50
Keiji MOROKUMA
Kyoto Univ. and Emory Univ.

August 5 (Mon)

Room A

Chairperson : Can LI (Dalian Institute of Chemical Sciences)

PL2 **Bridging Heterogeneous and Homogeneous Catalysis using Supported 10-50 Atom Size Metal Nanoparticles**
10:30-11:20
Gabor A. SOMORJAI
Univ. of California, Berkeley

Chairpersons : Bruce GATES (UC Davis)
Kenji HARA (Hokkaido University)

OA1 **Mechanistic Study on Electrocatalytic Oxidation of Formic Acid and Formate Ion on Platinum by Cyclic Voltammetry and SEIRAS**
11:30-11:50
Masatoshi OSAWA
Hokkaido Univ.

OA2 **Molecular Aspects of Glucose Activation by Homogeneous and Heterogeneous Lewis Acid Catalysts**
11:50-12:10
Evgeny PIDKO
Eindhoven Univ. of Technology

Chairpersons : Evgeny PIDKO (Eindhoven University of Technology)
Ken MOTOKURA (Tokyo Institute of Technology)

KN1 **Nanoscale Chemical Imaging of Individual Catalyst Particles at Work**
13:30-14:10
Bert WECKHUYSEN
Utrecht Univ.

OA3 **Unexpected Formal Nucleophilic Boryl Substitution of Organic Halides with Silylborane/Alkoxy Base System**
14:10-14:30
Eiji YAMAMOTO
Hokkaido Univ.

Aug. 4 (SUN)

Aug. 5 (MON)

OA4 Chemoselectivity in Hydrogenation of α, β -Unsaturated Carbonyl Compounds on Pd Model Catalysts

14:30-14:50

Karl-Heinz DOSTERT
Fritz Haber Institute of the Max Planck Society

Chairpersons : Tatsuo ISHIYAMA (Tel Aviv University)
Toshiaki TANIKE (JAIST)

OA5 New Concepts in Heterogeneous Catalysis: Relations Between Particle Size and Acidic Behavior

15:10-15:30

Rinaldo PSARO
CNR ISTM

OA6 Theoretical Study on Role of Lewis Acid of CeO₂ on Selective Nitrile Hydration

15:30-15:50

Kyoichi SAWABE
Nagoya Univ.

OA7 Selective Alkene and Alkyne Insertion into Hydrogen-Tungsten Bond Assisted by Mono (phosphorus ligand) palladium (0) Complexes

15:50-16:10

Nobuyuki KOMINE
Tokyo Univ. of Agriculture and Technology

OA8 Synthesis and Characterization of a Well-defined Supported Tungsten Methylidene Complex

16:10-16:30

Manoja K SAMANTARAY
King Abdullah Univ. of Science and Technology

**Evening Session-1
The R&D Challenges Facing Japanese Chemical Companies**

Chairperson : Yoshihiko ODA (Sumitomo Chemical Co., Ltd.)

ES1-1 Lithium Ion Battery and Interface Reaction

17:35-18:15

Akira YOSHINO
Asahi Kasei Corp

Chairperson : Tohru SETOYAMA (Mitsubishi Chemical Company)

ES1-2 New High-Performance Catalysts Developed at Mitsui Chemicals

18:15-18:45

Terunori FUJITA
Mitsui Chemicals Singapore R&D Centre, Pte. Ltd.

Chairperson : Akira YOSHINO (Asahi Kasei Corp)

ES1-3 Catalyst Research and Development of High Performance Materials in Accordance with R&D Strategy of Sumitomo Chemica

19:05-19:45

Yoshihiko ODA
Sumitomo Chemical Co., Ltd.

Chairperson : Terunori FUJITA (Mitsui Chemicals Singapore R&D Centre, Pte. Ltd.)

ES1-4 The Diversification of Chemical Feed-stocks and the Related Environmentally Benign Catalytic Processes

19:45-20:25

Tohru SETOYAMA
Mitsubishi Chemical Company

Room B

Chairpersons : Youzhu YUAN (Xiamen University)
Kohsuke MORI (Osaka University)

OB1 Selective Hydrogenolysis of Biomass-Derived Oxygen-Rich Compounds over Ir-ReO_x/SiO₂ Catalyst

11:30-11:50
Yoshinao NAKAGAWA
Tohoku Univ.

OB2 Catalytic Chemical Transformation of Biomass-Derived Compounds using Water and Carbon Dioxide Media

11:50-12:10
Masayuki SHIRAI
AIST

Chairpersons : Shinobu TAKIZAWA (Osaka University)
Ichiro YAMANAKA (Tokyo Institute of Technology)

OB3 Catalytic Hydrogenation of Unactivated Amides Going Milder and Practical

13:30-13:50
Susumu SAITO
Nagoya Univ.

OB4 High Performance of Supported Cu Catalysts Doped with Noble Metals for Selective Hydrogenation of Carboxylic Acids and Esters

13:50-14:10
Youzhu YUAN
Xiamen Univ.

OB5 Effect of Ag Loading on Cu/Al₂O₃ Catalyst in the Vapor-phase Hydrogenolysis of Glycerol into 1,2-Propanediol

14:10-14:30
Daolai SUN
Chiba Univ.

OB6 Understanding the Diastereoselectivity of Bicyclic Isoxazolidine Obtained from the α, α -Diphenylprolinol Trimethylsilyl Ether-Catalyzed Reaction

14:30-15:10
Rupesh V. CHIKHALE
Rashtrasant Tukadoji Maharaj Nagpur Univ.

Chairpersons : Jean Marie BASSET (KAUST)
Masayuki SHIRAI (AIST)

KN2 Design of Highly Functionalized Polyoxometalate-based Catalysts: From Molecular to Solid Catalysts

15:10-15:50
Noritaka MIZUNO
The Univ. of Tokyo

OB7 Room Temperature Oxidation of Carbon Monoxide on Pt/CeO₂-ZrO₂-Bi₂O₃ Catalysts

15:50-16:10
Toshiyuki MASUI
Osaka Univ.

OB8 Deactivation Causes of Pt/Ni-based γ -Al₂O₃ Catalysts Used in Aqueous Phase Reforming of Glycerol to Produce Hydrogen

16:10-16:30
Mohamed EL DOUKKALI
Univ. of the Basque Country

Aug. 5 (MON)

August 6 (Tue)

Room A

Chairperson : Takao IKARIYA (Tokyo Institute of Technology)

PL3 Ruthenium Catalyzed processes from Carbenes to C-H Bond Functionalizations

9:00-9:50

Pierre H. DIXNEUF
Univ. of Rennes

Chairpersons : Bert WECKHUYSEN (Utrecht University)

Shushi SUZUKI (Nagoya University)

KN3 Space-Resolved XAFS Characterization of Heterogeneous Catalysts

10:10-10:50

Mizuki TADA
Nagoya Univ.

OA9 Synthesis, Spectroscopy, and Atomic-Resolution Imaging of Supported Osmium Complexes and Clusters with Essentially Molecular Structures

10:50-11:10

Bruce C. GATES
Univ. of California, Davis

Chairpersons : Rinaldo PSARO (CNR ISTM)

Satoshi SATO (Chiba University)

OA10 Role of a Pd Dopant Atom for Oxidation Catalysis of Supported PdAu₂₄ Clusters

11:10-11:30

Seiji YAMAZOE
The Univ. of Tokyo

OA11 Carbon-Chlorine Bond Activation by Bimetallic Gold/Palladium Alloy Nanoclusters under Ambient Conditions: An Application to Ullmann Coupling

11:30-11:50

Raghu Nath DHITAL
Institute for Molecular Science

OA12 MgO/MgCl₂/TiCl₄ Core-Shell Catalyst for Establishing Structure-Performance Relationship in Ziegler-Natta Olefin Polymerization

11:50-12:10

Toshiaki TANIIKE
Japan Advanced Institute of Science and Technology

Chairperson : Hideo NAGASHIMA (Kyushu University)

PL4 Discovery of Sustainable Catalytic Reactions Based on Pincer Complexes

13:30-14:20

David MILSTEIN
Weizmann Institute of Science

Chairpersons : Christopher JONES (Georgia Institute of Technology)

Hayato TSURUGI (Osaka University)

KN5 At the Crossroad between Homogeneous and Heterogeneous Catalysis: New Reactions, Mechanisms, and Catalysts for Sustainable Synthesis

14:40-15:20

Steven BERGENS
Univ. of Alberta

OA13 Catalytic Activity of H-BN Based Nanomaterials for Oxygen Reduction Reaction

15:20-15:40

Andrey LYALIN
Kyoto Univ.

Aug. 6 (TUE)

Chairpersons : Xiang SHAO (University of Science and Technology of China)
Hidehiro SAKURAI (IMS)

OA14 15:40-16:00 **Dependence of Photooxidation Reaction of Water on Atomic Level Surface Local Structure at TiO₂ Single Crystal Electrode**

Akihito IMANISHI
Osaka Univ.

OA15 16:00-16:20 **Characterization of Cu Nanoparticles on TiO₂ Photocatalysts Fabricated by Electroless Plating Method**

Zheng WANG
Kyoto Univ.

OA16 16:20-16:40 **Solar-Driven Z-Scheme Water Splitting using BaZrO₃-BaTaO₂N Solid Solution Photocatalysts**

Kazuhiko MAEDA
Tokyo Institute of Technology

**Evening Session-2
CRC & ISHHC (Panel Discussion)**

Chairperson : Atsushi FUKUOKA (Hokkaido University)

Panelists

Hans J. FREUND
Fritz Haber Institute of the Max Planck Society

Bruce C. GATES
Univ. of California, Davis

Yasuhiro IWASAWA
The Univ. of Electro-Communications

Can LI
Dalian Institute of Chemical Physics

David MILSTEIN
Weizmann Institute of Science

Atsushi FUKUOKA
Hokkaido Univ.

Room B

Chairpersons : Takeyuki SUZUKI (Osaka University)
Kazuhiko MAEDA (Tokyo Institute of Technology)

OB9 10:10-10:30 **Dendrimer Encapsulated Copper Cluster as a Chemoselective and Regenerable Hydrogenation Catalyst**

Tatsuya TSUKUDA
The Univ. Tokyo

OB10 10:30-10:50 **Magnetically Separable Catalysts for Selective Hydrogenation of Unsaturated Compounds**

Valentina MATVEEVA
Tver Technical Univ.

OB11 10:50-11:10 **Microreactor-type Catalytic Material Synthesized by Immobilizing Nanosheets of Mg-Al Layered Double Hydroxides in a Monolithic Silica**

Isao OGINO
Hokkaido Univ.

Aug. 6 (TUE)

Chairpersons : Pierre BRAUNSTEIN (University of Strasbourg)
Yasushi OBORA (Kansai University)

OB12 New Reduction Method for Generating Low-valent Tantalum Species by Reaction of TaCl₅ and Bis (trimethylsilyl) cyclohexadiene: Trapping the Low-valent Species by Ethylene and Redox-active α -Diimine Ligands
11:10-11:30

Hayato TSURUGI
Osaka Univ.

KN4 Turning Dihydrogen into a Highly Versatile Reagent in Enantioselective Synthesis
11:30-12:10

Pher ANDERSSON
Stockholm Univ.

Chairpersons : Emmanuel CALLENS (KAUST)
Masahiro MIURA (Osaka University)

OB13 Diphenyl Carbonate Synthesis by Homogeneous Pd Electrocatalyst
14:40-15:00

Ichiro YAMANAKA
Tokyo Institute of Technology

OB14 Transformations of Terminal Alkenes into Primary Allylic Alcohols and Derivatives via Palladium Catalyzed Allylic C-H Oxidation
15:00-15:20

Ren TOMITA
Kyushu Univ.

OB15 Oxidized Metal Phenoxide Complexes - Correlation of Electronic Structure and Reactivity
15:20-15:40

Tim STORR
Simon Fraser Univ.

Chairpersons : Go HAMASAKA (Institute for Molecular Science)
Nobuharu IWASAWA (Tokyo Institute of Technology)

OB16 An Osmium (III) /Osmium (V) Redox Couple for *cis*-1,2-Dihydroxylation of Alkenes with H₂O₂: Os Complex with a Nitrogen-based Tetradentate Ligand
15:40-16:00

Hideki SUGIMOTO
Osaka Univ.

KN6 Endeavors Towards Bridging the Gap between Homo & Heterogeneous Asymmetric Catalysis with Organometallics
16:00-16:40

Kuiling DING
Shanghai Institute of Organic Chemistry

August 7 (Wed)

Room A

Chairperson : Xinhe BAO (Dalian Institute of Chemical Sciences)

PL5 Catalysis in Radical Polymerization

9:00-9:50

Krzysztof MATYJASZEWSKI
Carnegie Mellon Univ.

Chairpersons : Marco RANOCCHIARI (Paul Scherrer Institute)
Itaru NAKAMURA (Tohoku University)

KN7 The Tuning of Static or Hemilabile Metal-ligand Systems for Stoichiometric and Catalytic Transformations

10:10-10:50

Pierre BRAUNSTEIN
Université de Strasbourg-CNRS

OA17 Anchoring Bimetallic Clusters by Reduced Oxide Surface Sites: Its Effect on Thermal Stabilization, Elemental Composition and Reactivity

10:50-11:10

Micha ASSCHER
The Hebrew Univ. of Jerusalem

Chairpersons : Takehiko SASAKI (The University of Tokyo)
Bunsho OHTANI (Hokkaido University)

OA18 Synthesis of Well-Crystallized Rh-Te Alloy Nanoparticulate Catalysts by Liquid Phase Reduction Method

11:10-11:30

Noritoshi YAGIHASHI
Tohoku Univ.

OA19 High Density Monolayer of Rh-Diisocyanide on Gold Surface as a Platform for Active and Selective Hydrogenation Catalysis

11:30-11:50

Kenji HARA
Hokkaido Univ.

OA20 Improving Heterogeneous Catalysis by Rationally Co-Assembling Organocatalysts and/or Metallic Nanoclusters within Nanostructured Systems

11:50-12:10

Tewodros ASEFA
The State Univ. of New Jersey

Chairpersons : Tim STORR (Simon Fraser University)
Hiromi YAMASHITA (Osaka University)

KN9 Control of Molecular Catalysis on Surfaces Using Bioinspired Approaches

13:30-14:10

Alexander KATZ
Univ. of California, Berkeley

OA21 Enzyme Catalysis in Ionic Liquid-based Reverse Micelles

14:10-14:30

Xirong HUANG
Shandong Univ.

OA22 Ionic Liquid thin Film Technology - Advanced Materials for Catalysis

14:30-14:50

Marco HAUMANN
Friedrich-Alexander-Universität Erlangen-Nürnberg

Aug. 7 (WED)

Chairpersons : Christopher HARDACRE (Queen's Univ. Belfast)
Nobuyuki KOMINE (Tokyo University of Agriculture and Technology)

OA23 Enhancement of Catalytic Performance in One-Pot Oxidation Reaction Using Pd/SiO₂@Ti-Containing Mesoporous Silica Core-shell Type Catalyst

Hiromi YAMASHITA
Osaka Univ.

OA24 Selective Aerobic Oxidation of C-C Bonds in Lignin Models and Extracts using Supported Base Metal Complexes: A Comparison of Oxovanadium and Copper Catalysts

R. Tom BAKER
Univ. of Ottawa

OA25 Tuning the Chiral Ether Side Chains of Helically Chiral Polymer Ligand PQXphos

15:50-16:10
Takeshi YAMAMOTO
Kyoto Univ.

OA26 Surface Functionalization of SiO₂-Supported Mn Cluster with SiO₂-Matrix Overlayers toward Durable Mn Cluster Catalysts for Selective Epoxidation

16:10-16:30
Satoshi MURATSUGU
Nagoya Univ.

Evening Session-3 Molecular Activation

Chairperson : Naoto CHATANI (Osaka University)

ES3-1 Nickel and Iron-catalyzed Cross-couplings of Phenolic Derivatives

17:35-18:10
Neil GARG
Univ. of California, Los Angeles

ES3-2 Rhodium-Catalyzed Direct Carboxylation Reaction of sp² C-H Bond

18:10-18:40
Nobuharu IWASAWA
Tokyo Institute of Technology

ES3-3 Convenient Syntheses of Multi-Substituted Acenes by C-H Functionalization

18:40-19:10
Fumitoshi KAKIUCHI
Keio Univ.

ES3-4 Rhodium-Catalyzed Synthesis of Silafluorene Derivatives via Cleavage of Silicon Hydrogen and Carbon Hydrogen Bonds

Kazuhiko TAKAI
Okayama Univ.

ES3-5 Sustainable Concepts for C-C and C-Heteroatom Bond Formation

20:00-20:30
Lukas GOOßEN
TU Kaiserslautern, Erwin-Schrödinger-Straße

Room B

Chairpersons : Michael C. W. CHAN (City University of Hong Kong)
Akihito IMANISHI (Osaka University)

OB17 Anti-Markovnikov Hydration of Alkenes over Pt/TiO₂ Photocatalyst

10:10-10:30
Hayato YUZAWA
Institute for Molecular Science

Aug. 7 (WED)

OB18 **Ligand Effects in the Hydrogenation of Aromatic Compounds by Ruthenium Metal Nanoparticles**
10:30-10:50
Piet WNM VAN LEEUWEN
Institute of Chemical Research of Catalonia

OB19 **Design of Visible-light-induced Photocatalysis Based on Ru Complex Fixed on the Inorganic Matrices and its Enhancement by the Assist of Localized Surface Plasmon Resonance**
10:50-11:10
Kohsuke MORI
Osaka Univ.

Chairpersons : Karine PHILIPPOT (CNRS - Laboratoire de Chimie de Coordination)
Hajime ITO (Hokkaido University)

OB20 **Looking at Photocatalytic Reaction of Methanol on the Rutile TiO₂ (110) Surface with Low-Temperature STM**
11:10-11:30
Xiang SHAO
Univ. of Science and Technology of China

KN8 **Direct Aromatic Coupling by Transition Metal Catalysis**
11:30-12:10
Masahiro MIURA
Osaka Univ.

Chairpersons : Valentina MATVEEVA (Tver. Technical University)
Shiro HIKICHI (Kanagawa University)

OB21 **Toward Efficient Asymmetric Carbon & Carbon Bond Formation using Catalytic Flow with Heterogeneous Catalysts**
13:30-13:50
Tetsu TSUBOGO
The Univ. of Tokyo

OB22 **Novel Multisite Chiral Solid Catalyst for Asymmetric Multicomponent Reactions**
13:50-14:10
Pilar GARCIA-GARCIA
Instituto de Tecnologia Quimica

OB23 **Efficient Knoevenagel Condensation by A Highly Negatively Charged Divacant Germanotungstate Catalyst**
14:10-14:30
Kosei SUGAHARA
The Univ. of Tokyo

OB24 **Pd (0) -Catalyzed Cross-Coupling Reaction of Perfluoroalkene with Arylmetal Reagents**
14:30-14:50
Masato OHASHI
Osaka Univ.

Chairpersons : Félix SÁNCHEZ (Instituto de Química Orgánica General)
Isao OGINO (Hokkaido University)

KN10 **Probing [C-H...F-C] and Related Contacts as Models of Weak Attractive Ligand-Polymer Interactions**
15:10-15:50
Michael C. W. CHAN
City Univ. of Hong Kong

OB25 **Periodic Mesoporous Organosilica as a Solid Chelating Ligand: Application to Direct C-H Borylation of Arenes**
15:50-16:10
Yoshifumi MAEGAWA
Toyota Central R&D Labs., Inc.

Aug. 7 (WED)

OB26 Iridium-catalyzed Alkylation of C-H Bonds with Alkenes
16:10-16:30 Shiguang PAN
Waseda Univ.

Aug. 7 (WED)

August 8 (Thu)

Room A

Chairperson : Piet W.N.M. van LEEUWEN (Institute of Chemical Research of Catalonia)

PL6 Model Studies on Heterogeneous Catalysis at the Atomic Scale

9:00-9:50

Hans-J. FREUND

Fritz Haber Institute of the Max Planck Society

Chairpersons : Alexander KATZ (UC Berkeley)

Atsushi MURAMATSU (Tohoku University)

KN11 Tuning Amine-Silanol Cooperativity in Aldehyde Coupling Reactions

10:10-10:50

Christopher W. JONES

Georgia Institute of Technology

OA27 An Iridium (III) Hydride Pincer Complex Grafted on Mesoporous Silica as Single-Site Catalyst for Gas-Phase Olefin Hydrogenation

10:50-11:10

Martino RIMOLDI

ETH Zurich

Chairpersons : Tewodros ASEFA (Rutgers University)

Satoru TAKAKUSAGI (Hokkaido University)

OA28 Formation and Catalysis of Thermally Stable Gold Nanoparticles on Ultrastable Y Zeolites

11:10-11:30

Kazu OKUMURA

Tottori Univ.

OA29 A New Bifunctional Ligand Allowing Preparation of Bimetallic Nanoparticles or Immobilization of Homogeneous Catalysts on Nano-Carbons

11:30-11:50

Charles VRIAMONT

Université Catholique de Louvain

OA30 Design of AgNP@CeO₂ Core-Shell Nanocomposite Catalyst for Highly Chemoselective Reductions

11:50-12:10

Takato MITSUDOME

Osaka Univ.

Chairperson : Mizuki TADA (Nagoya University)

PL7 Controlled Functionalization of Surfaces to Access to Well-defined Supported Nanoparticles and Single-site Catalysts

13:30-14:20

Christophe COPÉRET

ETH Zurich

Chairpersons : Steven H. BERGENS (University of Alberta)

Susumu SAITO (Nagoya University)

KN13 Development of Catalysts for the Benign Hydrogenation of Amides and Acids

14:40-15:20

Christopher HARDACRE

Queen's Univ. Belfast

OA31 Visible-Light-Induced Trifluoromethylation of Alkenes by Photoredox Catalysis

15:20-15:40

Takashi KOIKE

Tokyo Institute of Technology

Aug. 8 (THU)

OA32 Carbon-Hydrogen Bond Activation using Supported Pd-Based Catalysts: Mechanistic Investigation and Characterisation by X-Ray Spectroscopy

15:40-16:00

Ekaterina BOLBAT
Lund Univ.

Chairpersons : Satoshi MURATSUGU (Nagoya University)
Tetsuaki FUJIHARA (Kyoto University)

OA33 Development of a Photocatalytic Stereoselective Synthetic System — Synthesis of Pilocarpic Acid by Hollow Core-Shell Silica-Titania Particles

16:00-16:20

Bunsho OHTANI
Hokkaido Univ.

OA34 Immobilized oxidoreductases for selective oxidation of organic compounds

16:20-16:40

Valentina MATVEEVA
Tver Technical Univ.

OA35 Formation of Secondary Carbocations from Alcohols and Their Long-term Storage in Zeolite Subnano-housing under Ambient Conditions

16:40-17:00

Makoto ONAKA
The Univ. of Tokyo

OA36 Catalysis with AuI onto a Coordination Polymer: A Solid Porous Ligand with Free Phosphine Sites

17:00-17:20

Marco RANOCCHIARI
Paul Scherrer Institute

Room B

Chairpersons : Tom BAKER (University of Ottawa)
Masanari KIMURA (Nagasaki University)

OB27 PAMAM Dendrimer-Stabilized Pd Nanoparticles Captured in Porous Polymer Platforms: A Tailor-Made Catalyst Directing toward Future Progress in Green and Sustainable Chemistry

10:10-10:30

Shinji KATO
Kawamura Institute of Chemical Research

OB28 Catalytic Synthesis of para-Phenylenediamine Oligomers

10:30-10:50

Hong Y TANG
National Chi Nan Univ.

OB29 Precisely Isospecific Polymerization of α -Olefins Catalyzed by Hafnium Complex Incorporating with a [OSSO]-Type Bis (phenolate) Ligand

10:50-11:10

Norio NAKATA
Saitama Univ.

Chairpersons : Lukas GOOBEN (TU Kaiserslautern, Erwin-Schrödinger-Straße)
Makoto ONAKA (The University of Tokyo)

OB30 Silica-Supported Ethylene Oligomerization Catalysts

11:10-11:30

Fabian F. KARBACH
Eindhoven Univ. of Technology

Aug. 8 (THU)

KN12 **Metal-Ligand Synergy in Group-IV Organometallics for the Catalytic Polymerization and Hydroamination of Unactivated Olefins**

11:30-12:10

Giuliano GIAMBASTIANI
ICCOM-CNR

Chairpersons : Henning KAYSER (RWTH Aachen University)
Takeo OHSAKA (Tokyo Institute of Technology)

OB31 **Cyclodehydration of Sugar Alcohols in Water using a Layered Metal Oxide as a Water-Tolerant Solid Acid Catalyst**

14:40-15:00

Atsushi TAKAGAKI
The Univ. of Tokyo

OB32 **Comparison of Catalysis between Transition Metal and non-Transition Metal Hydrides: Theoretical Prediction How to Construct Catalytic Cycle with non-Transition Metal Compound**

15:00-15:20

Shigeyoshi SAKAKI
Kyoto Univ.

OB33 **Direct Synthesis of Acetic Acid by Liquid Phase Oxidation of Ethane on H-ZSM-5 with H₂O₂**

15:20-15:40

Tatsumi ISHIHARA
Kyushu Univ.

OB34 **Bioproduction of D-lactic Acid and Isopropyl Alcohol**

15:40-16:00

Mitsufumi WADA
Mitsui Chemical, Inc

Chairpersons : Martin SCHUMAL (Federal University of Rio de Janeiro)
Masaya SAWAMURA (Hokkaido University)

KN14 **Enhancement of Selective Oxidation Reaction by NanoCatalysis: From Vision to Reality**

16:00-16:40

Xinhe BAO
Dalian Institute of Chemical Physics

OB35 **Chitosan - a Bio-based Organocatalyst for the Production of Biomass-Derived Platform Chemicals**

16:40-17:00

Henning KAYSER
ITMC, RWTH Aachen Univ.

OB36 **Catalyst Activity Analysis of Metal Surface for Oxidation Reaction of Ethylene Glycol in Alkaline Fuel Cell via First-Principles Calculation**

17:00-17:20

Nobuki OZAWA
Tohoku Univ.

Aug. 8 (THU)

August 9 (Fri)

Room A

Chairpersons : Seong Ihl WOO (KAIST)
Masami FUKUSHIMA (Hokkaido University)

OA37 **Microenvironment Engineering of Nanopore for Enzyme Accommodation**

9:00-9:20

Qihua YANG

Dalian Institute of Chemical Physics

OA38 **Effect of Chemical Structure of Viologen-derivatives on the CO₂ Reduction Activity with Formate Dehydrogenase**

9:20-9:40

Yutaka AMAO

Oita Univ.

Chairpersons : Dorota RUTKOWSKA-ZBIK (Jerzy Haber Institute of Catalysis and Surface Chemistry)
Atsushi TAKAGAKI (The University of Tokyo)

KN15 **Artificial Z-scheme Constructed with a Supramolecular Metal Complex and Semiconductor for Photocatalytic Reduction of CO₂**

10:10-10:50

Osamu ISHITANI

Tokyo Institute of Technology

OA39 **A Novel TaO_x-Pt Nanocomposite for Oxygen Reduction: An Investigation of Physical and Electrochemical Properties**

10:50-11:10

Takeo OHSAKA

Tokyo Institute of Technology

Chairpersons : Christophe COPÉRET (ETH)
Takeshi KUBOTA (Shimane University)

OA40 **Enhanced Electrochemical Oxygen Reduction Reaction by Restacking of N-doped Single Graphene Layers**

11:10-11:30

Seong Ihl WOO

Korea Advanced Institute of Science and Technology

OA41 **Electrochemical Activity and Durability of Pt/Carbon Cathode Catalysts in Polymer Electrolyte Fuel Cells for Oxygen Reduction Reactions in Repeated Potential Cycles**

11:30-11:50

Kensaku NAGASAWA

The Univ. of Electro-Communications

OA42 **Very Efficient Electrochemical and Photoelectrochemical Hydrogen Evolution and CO₂ Reduction Reactions at Si (111) Electrodes Modified by Molecular Layer with Viologen Moiety as an Electron Transfer Mediator and Metal Complex as a "Confined Molecular Catalyst"**

11:50-12:10

Takuya MASUDA

National Institute for Materials Science

Chairpersons : Giuliano GIAMBASTIANI (Institute of Organometallic Chemistry, National Research Council, Italy)
Kenji WADA (Kagawa University)

KN17 **New Palladium-Catalyzed C-H Functionalization Methods for Organic Synthesis**

13:30-14:10

Gong CHEN

The Pennsylvania State Univ.

Aug. 9 (FRI)

OA43 Comparing the Kinetics of Homogeneous versus Heterogeneous Reactions using Amine Catalysts:
Effects of Structure and Surface Chemistry of the Support

14:10-14:30

Igor SLOWING
U.S. Department of Energy

Chairpersons : Gong CHEN (The Pennsylvania State University)
Kenichi SHIMIZU (Hokkaido University)

OA44 Ammonia Decomposition over Ni/La₂O₃ Catalyst for Hydrogen Production

14:30-14:50

Hiroki MUROYAMA
Kyoto Univ.

OA45 Effect of Periodic Illumination on Photocatalytic Decomposition of Bisphenol A in Aqueous Solutions
using UV-LEDs

14:50-15:10

Mong-Chou LO
National Taiwan Univ. of Science and Technology

OA46 Copper-Catalyzed Silacarboxylation of Alkynes Employing Carbon Dioxide and Silylboranes

15:10-15:30

Tetsuaki FUJIHARA
Kyoto Univ.

OA47 Transformation of Carbon Dioxide to Silyl Formate Catalyzed by Copper-Diphosphine Complexes

15:30-15:50

Ken MOTOKURA
Tokyo Institute of Technology

Room B

Chairpersons : Ken TANAKA (Tokyo University of Agriculture and Technology)
Takato MITSUDOME (Osaka University)

OB37 Synthesis of Azepine Derivatives via Rh-Catalyzed Tandem 2,3-Rearrangement-Heterocyclization

9:00-9:20

Itaru NAKAMURA
Tohoku Univ.

OB38 Dehydrogenative Synthesis of Benzimidazoles with Supported Iridium Catalysts

9:20-9:40

Kenji WADA
Kyoto Univ.

Chairpersons : Pilar GARCIA-GARCIA (Instituto de Tecnologia Quimica, UPV-CSIC)
Norio NAKATA (Saitama University)

OB39 N-Heterocyclic Carbene-Copper Complexes-Catalyzed Carboxylation Reactions with Carbon Dioxide

10:10-10:30

Liang ZHANG
RIKEN

OB40 Lewis Acid Catalysis of Mesoporous Titanosilicates in Water

10:30-10:50

Hiroshi SHINTAKU
Tokyo Institute of Technology

OB41 Organometallic Synthesis of Ruthenium Nanoparticles for Biphasic Liquid-liquid Hydrogenation
Catalysis

10:50-11:10

Karine PHILIPPOT
CNRS

Aug. 9 (FRI)

Chairpersons : Shingo ITO (The University of Tokyo)
Kazu OKUMURA (Tottori University)

OB42 **CeO₂-Catalyzed Transformations of Nitriles and Amides**
11:10-11:30
Kenichi SHIMIZU
Hokkaido Univ.

KN16 **Assembly of Functionalized Macromolecular Architectures by Controlled Radical Polymerization and Catalytic Applications**
11:30-12:10
Rinaldo POLI
Laboratoire de Chimie de Coordination

Chairpersons : Quhua YANG (Dalian Institute of Chemical Sciences)
Yutaka AMAO (Osaka City University)

OB43 **Selective Oxidation of Benzene to Phenol with Molecular Oxygen Promoted with Ammonia on Pt/Zeolite Catalysts**
13:30-13:50
Linsheng WANG
The Univ. of Electro-Communications

OB44 **A New Challenge of Energy-filtered X-ray Photoemission Electron Microscopy (EXPEEM) with a Wien Filter**
13:50-14:10
Kotaro MIYAZAKI
Hokkaido Univ.

OB45 **The Influence of N-methylimidazole on the Reactivity of Model Complex of Cpd II - A Combined Experimental and Theoretical Study**
14:10-14:30
Dorota RUTKOWSKA-ZBIK
Jerzy Haber Institute of Catalysis and Surface Chemistry

Chairpersons : Igor Ivan SLOWING (U.S. Department of Energy)
Makoto TOKUNAGA (Kyushu University)

OB46 **Investigation of Catalyst Life in Supercritical Water Gasification of Biomass: Comparison of Batch Reaction and Continuous Reaction**
14:30-14:50
Hung Thanh NGUYEN
Yamanashi Univ.

OB47 **The Application of XAFS Technique in the Characterization of Environmental Catalysts for the Removal of Air Pollutants**
14:50-15:10
Fudong LIU
Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

OB48 **Synthesis and Characterization of Perovskite-type Oxides La_{1-x}M_xCoO₃ (M=Ce;Sr) for the Selective CO Oxidation (PROX)**
15:10-15:30
Martin SCHMAL
Federal Univ. of Rio de Janeiro

OB49 **Mechanism of Carbon Dioxide Fixation by a Bifunctional Porphyrin Catalyst: A Theoretical Study**
15:30-15:50
Jun-ya HASEGAWA
Hokkaido Univ.

Aug. 9 (FRI)

Poster

The symbols of presentations are as follows :

Poster Poster (RRR)	August 5 (Mon)	16:30-18:30
	August 6 (Tue)	16:40-18:40
	August 7 (Wed)	16:30-18:30

※ RRR : Recent Research Report

August 5 (Mon)

- 1P-1 **A Metal-Based Inhibitor of NEDD8-Activating Enzyme**
Dik-Lung MA
Hong Kong Baptist Univ.
- 1P-2 **Theoretical Investigation for Aerobic Oxidation of Alcohols over Neutral Au₆ Cluster**
Mitsutaka OKUMURA
Osaka Univ.
- 1P-3 **Molecular-Architecture-Based Administration of Catalysis in Water: Self-Assembly of an Amphiphilic Palladium Pincer Complex**
Go HAMASAKA
Institute for Molecular Science
- 1P-4 **CO oxidation over Au/Al₂O₃ model catalyst**
Isao NAKAMURA
AIST Tsukuba
- 1P-5 **Cycloisomerization of 1,n-dienes via chain walking catalyzed by palladium complexes**
Taro HAMASAKI
Keio Univ.
- 1P-6 **Reaction Mechanism and Kinetics of CuO on Chemical Looping with Oxygen Uncoupling.**
Chia-Wei CHANG
National Taiwan Univ. of Science and Technology
- 1P-7 **Mechanistic studies of Ru (cod)(cot) -catalyzed aromatic C-H alkenylation using alkenyl esters**
Yohei OGIWARA
Keio Univ.
- 1P-8 **Mechanistic Study of Redox Reactions for Supported Palladium Species by Means of Dispersive XAFS Technique**
Misaki KATAYAMA
Ritsumeikan Univ.
- 1P-9 **Low-temperature CO oxidation over Pt/Fe-containing alumina catalysts: effect of water pretreatment and reaction mechanism**
Atsuko TOMITA
AIST
- 1P-10 **Theoretical study of the hetero-junction effect in polymer-stabilized Au cluster**
Kohei SAKATA
Osaka Univ.

Aug. 5 (MON)

- 1P-11 **Ammonia adsorption induced by the localized non-bonding states of graphite**
Riku SHIBUYA
Univ. of Tsukuba
- 1P-12 **Facile Halogen Exchange Method between Au(Cl)(L) and MeC(O)X(L = PPh₃ and IPr; X = Br and I) via σ -Bond Metathesis Supported by DFT Calculation**
Atsushi SANAGAWA
Osaka Univ.
- 1P-13 **Aerobic Oxidation of Methanol to Formic Acid on Gold Clusters: A DFT Study on the Reaction Mechanism**
Sangita KARANJIT
The Graduate Univ. of Advanced Studies
- 1P-14 **Tandem Hydroformylation/Hydrogenation of Alkenes to *normal*-Alcohols Using Rh/Ru Dual Catalyst or Ru Single Component Catalyst**
Kohei TAKAHASHI
The Univ. of Tokyo
- 1P-15 **DFT Study for Propylene oxide formation by single Pd atom adsorbed on anatase TiO₂**
Masato OHE
Kyoto Institute of Technology
- 1P-16 **Reactivity Control of Immobilized Metal Complex Catalysts by the Ligand Site Density on Material Surface**
Jun NAKAZAWA
Kanagawa Univ.
- 1P-17 **Photoluminescence and Photoinduced Catalytic Reaction of Platinum (II) Terpyridine Complex Anchored on Mesoporous Silica**
Masayoshi KAWASHIMA
Osaka Univ.
- 1P-18 **Silicon Effect in the Iridium-Catalyzed C (sp³)-H Borylation of Tetraalkylsilanes**
Takeru TORIGOE
Kyoto Univ.
- 1P-19 **Systematic Exploration of Transition States in Ruthenium (II) -Catalyzed Hydrogenation of Aromatic Ketones Using GRRM Methods**
Aki MATSUOKA
Nagoya Univ.
- 1P-20 **Activation of O₂ on Mo-doped CaO and MgO surfaces**
Matthias BALDOFSKI
Humboldt Universitaet zu Berlin
- 1P-21 **Stereospecific Suzuki-Miyaura Coupling of α - (Acylamino) alkylboronic Esters Giving 1-Arylalkylamine Derivatives with Inversion of Configuration**
Kyoko MIWA
Kyoto Univ.
- 1P-22 **Catalytic activity of PdCl₂ (X_nPy)₂ in the synthesis of phenylureas**
Agnieszka KROGUL
Univ. of Warsaw

- 1P-23 **Exploring reaction pathway of H₂ dissociation on Au_n (n=1 - 10) clusters by automated reaction path search methods**
Min GAO
Hokkaido Univ.
- 1P-24 **RuHCl(CO)(PPh₃)₃-Catalyzed Alkylation of Acetamides Using Primary Alcohols**
Takashi KUWAHARA
Osaka Prefecture Univ.
- 1P-25 **Cation- π interaction as a catalyst promoter in heterogeneous catalysis**
Yasutaka KUWAHARA
National Institute of Advanced Industrial Science and Technology
- 1P-26 **Effect of Lewis Acidic Additives on C-F Bond Activation of Tetrafluoroethylene on Palladium**
Mitsutoshi SHIBATA
Osaka Univ.
- 1P-27 **Scanning Tunneling Microscopy Studies of Self-Assembled Two-dimensional Materials Toward the Development of Novel Carbon Catalysis**
Atomu FURUYA
Hokkaido Univ.
- 1P-28 **Emissions from Hybrid InN/TiO₂ Nanomaterials**
Yu-Jong WU
National Chiao Tung Univ.
- 1P-29 **Dinuclear Palladium Sandwich Complexes of Arenes and Azoles**
Seita KIMURA
Osaka Univ.
- 1P-30 **Reduction Kinetics of Nickel Species on Various Silica with Different Structure**
Shohei YAMASHITA
Ritsumeikan Univ.
- 1P-31 **Local structure and reactivity of kink site on TiO₂ (110)**
Hiroko ARIGA
Hokkaido Univ.
- 1P-32 **Water Oxidation by Single-site Ruthenium Complexes: Using Ligands as Redox and Proton Transfer Mediators**
Markus D. KAERKAES
Stockholm Univ.
- 1P-33 **Gasification of organosolv-lignin over supported noble metal salt catalysts in supercritical water**
Aritomo YAMAGUCHI
AIST
- 1P-34 **Bis(trimethylsilyl)cyclohexadiene As Unique Reducing Reagent to Generate Low-valent Tungsten Complexes**
Hiromasa TANAHASHI
Osaka Univ.
- 1P-35 **Simple nickel catalyst for hydrolytic hydrogenation of cellulose**
Hirokazu KOBAYASHI
Hokkaido Univ.

- 1P-36 **Transition metal free selective catalytic reduction of amides under hydrosilylation conditions**
Alexey VOLKOV
Stockholm Univ.
- 1P-37 **Selective catalytic reduction of carbon dioxide via intermediacy of formic acid**
Nobuhiro ISHITO
Hokkaido Univ.
- 1P-38 **Catalysis of Alkali-Activated Carbons in Hydrolysis of Cellulose**
Mizuho YABUSHITA
Hokkaido Univ.
- 1P-39 **Dual activation in homo- and hetero-couplings promoted by a chiral dinuclear vanadium (V) catalyst**
Shinobu TAKIZAWA
Osaka Univ.
- 1P-40 **Pd-Au Bimetal Supported on High Surface TiO₂ for H₂O₂ Synthesis by Direct Oxidation of H₂**
Yuuki OOISHI
Kyushu Univ.
- 1P-41 **Enantioselective organocatalyzed aza-MBH domino reactions of ketimines**
Yasushi YOSHIDA
Osaka Univ.
- 1P-42 **Ethylene Polymerization Catalyzed by Titanatranes of the Type, [Ti (OR) {(O-2,4-Me₂C₆H₂)-6-CH₂]₃N}], and the Hetero-Bimetallic Ti-Al Complexes, [TiMe {(O-2,4-Me₂C₆H₂-6-CH₂)₂ (μ₂-O-2,4-Me₂C₆H₂-6-CH₂) N}] [Me₂Al (μ₂-OR)]**
Udomchai TEWASEKSON
Tokyo Metropolitan Univ.
- 1P-43 **Investigation of Active Species in the Photoinduced H₂ Production with Terpyridyl Pt (II) complexes by in Situ XAFS Analysis**
Martin MARTIS
Osaka Univ.
- 1P-44 **Synthesis, Structural Analysis and Reaction of the Hetero-Bimetallic Complexes Formed by the Reaction of Ti, Zr, Hf (IV) Complexes of Amine-Tris (phenolate) Ligand, [M(OR) {(O-2,4-R'¹C₆H₂)-6-CH₂]₃N] (M = Ti, Zr, Hf), with AlMe₃**
Yuki TAKII
Tokyo Metropolitan Univ.
- 1P-45 **Selective synthesis of sorbitol from cellulose over carbon-supported iridium-ruthenium bimetallic catalysts**
Yoshihiko HIROSAKI
Hokkaido Univ.
- 1P-46 **Multifunctional iridium- (iminoterephthalate) -Zr-MOFs chemoselective catalysts for cascade reactions**
Marta IGLESIAS
CSIC
- 1P-47 **Heterogeneous vs. Homogeneous Catalysis in Water: Chiral Copper-catalyzed Enantioselective Boron Conjugate Additions to α,β-Unsaturated Carbonyl Compounds**
Taku KITANOSONO
The Univ. of Tokyo

- 1P-48 **Palladium Nanoparticles (PdNPs) Entrapped in Porous Polymer Matrices: Ligand Integration Effects on PdNPs Morphology and Catalytic Performances**
Yaoyao YANG
Kawamura Inst. Chem. Res.
- 1P-49 **Deposition of Pt Catalysts on Carbon Nanotubes with Different Oxidation Levels for Formic Acid Oxidation**
CHIEN-TE HSIEH
YUAN ZE Univ.
- 1P-50 **Ni (0) /NHC-Catalyzed Intramolecular Hydroacylation of Alkenes through Oxanickelacycle Intermediate**
Yukari HAYASHI
Osaka Univ.
- 1P-51 **Characterization of mechanochemically synthesized Pd-containing perovskites**
Tomoki UCHIYAMA
Kyushu Univ.
- 1P-52 **Aqueous Hydrodeoxygenation of 4-Propylphenol as a Lignin Model to *n*-Propylbenzene by Supported Metal Catalysts**
Bo FENG
Hokkaido Univ.
- 1P-53 **Ligand modification of cyclometalated ruthenium complexes in the aerobic oxidation of imidazolines**
Takaki KANBARA
Univ. of Tsukuba
- 1P-54 **Production of ketones from biomass-derived slurry liquid using ZrO₂-FeO_x catalysts and its reaction mechanism**
Teruoki TAGO
Hokkaido Univ.
- 1P-55 **Selective Hydrogenation of Nitroaromatics by Colloidal Iridium Nanoparticles**
Md J. SHARIF
The Univ. of Tokyo, Hokkaido Univ.
- 1P-56 **Selective synthesis for allyl-alcohol from glycerol over K-supported ZrO₂-FeO_x catalyst**
Teruoki TAGO
Hokkaido Univ.
- 1P-57 **Effect of synthesis method on alloy formation and catalytic activity of PtSn catalysts for propane dehydrogenation**
Lidan DENG
Kyoto Univ.
- 1P-58 **Direct carbonate synthesis from CO₂ and alcohols over CeO₂ combined with nitrile hydration**
Masazumi TAMURA
Tohoku Univ.
- 1P-59 **Bio-inspired Immobilized Metallocomplex Catalysts with Imidazolyl Group Containing Ligands Mimicking Active Sites of Non-heme Metalloenzymes**
Shiro HIKICHI
Kanagawa Univ.

- 1P-60 Polymerization of phenylacetylene catalyzed by nitrobindin mutants embedding a rhodium complex**
Kazuki FUKUMOTO
Osaka Univ.
- 1P-61 Visible-light-responsive Carbon-containing TiO₂ Film Prepared by Sol-gel Dip-coating**
Yao-Hsuan TSENG
National Taiwan Univ. of Science and Technology
- 1P-62 Enhanced Photoelectrocatalytic Decomposition of Isopropanol by Using CuInS₂ deposited TiO₂ Nanotube Arrays**
Sheng-Lin YU
National Taiwan Univ. of Science and Technology
- 1P-63 Structure of Pt/SnO₂ catalyst for gas sensor**
Naoyoshi MURATA
Fuji Electric Co., Ltd
- 1P-64 Total oxidation of model volatile organic compounds over ceria-zirconia supported catalysts**
Pavel TOPKA
Institute of Chemical Process Fundamentals of the ASCR, v. v. i.,
- 1P-65 Olefin Polymerization Behavior of Tridentate Phenoxy-Imine Complexes**
Naoki UEHARA
Mitsui Chemical, Inc
- 1RRR-1 Analysis of Polymer Reaction via Intermediary Formation of Pseudopolyrotaxane using Macrocyclic Catalyst**
Yasuhito KOYAMA
Hokkaido Univ.
- 1RRR-2 Heterogeneous catalysts in the depolymerization of lignin to aromatic monomers and their further hydrodeoxygenation**
Deepa A. K.
CSIR-National Chemical Lab.
- 1RRR-3 Superior Photocatalytic Efficiency on a 3D Chain-Network Structured Anatase/ TiO₂ (B) Thin film .**
Yin-Cheng YEN
National Chung Hsing Univ.
- 1RRR-4 Visible Light-Mediated Direct Arylation of Arenes and Heteroarenes Using Diaryliodonium Salts in the Presence and Absence of a Photocatalyst**
Takayuki FURUKAWA
Osaka Univ.
- 1RRR-5 Direct Synthesis of Phenol from Benzene by Platinum-loaded Tungsten (VI) Oxide Photocatalysts with Water and Molecular Oxygen**
Osamu TOMITA
Kyoto Univ.
- 1RRR-6 Hybrid Photocatalysts Composed of Plasmonic Titania and Ruthenium Complexes for Oxidation of Organic Compounds**
Kenta YOSHIHARA
Hokkaido Univ.

1RRR-7 In-situ observation of solid-liquid heterogeneous catalytic reaction by soft X-ray absorption spectroscopy

Hayato YUZAWA
Institute for Molecular Science

1RRR-8 The importance of open sites in gold catalysis: oxidation and reduction reactions

Michael M. NIGRA
Univ. of California, Berkeley

1RRR-9 *In-situ* investigation of a gold foil using ambient pressure hard X-ray photoelectron spectroscopy

Yasumasa TAKAGI
Institute for Molecular Science

1RRR-10 DFT study for phenol synthesis by Pt clusters from benzene and oxygen in the presence of ammonia

Takehiko SASAKI
The Univ. of Tokyo

Aug. 5 (MON)

August 6 (Tue)

- 2P-1 **Operando XAFS Investigations on the Reaction Mechanism of Dehydrogenation Reactions on Ni₂P catalysts.**
Kiyotaka ASAKURA
Hokkaido Univ.
- 2P-2 **End-functionalized Polymerization of 2-Vinylpyridine through Initial C-H Bond Activation of N-Heteroaromatics and Internal Alkynes by Yttrium Alkyl Complex bearing with Dianionic Ene-diamido Ligand**
Haruki NAGAE
Osaka Univ.
- 2P-3 **Accurate entropy calculations through normal mode optimization and anharmonicity analysis**
GiovanniMaria PICCINI
Humboldt-Universität zu Berlin
- 2P-4 **Surface X-ray Absorption Fine Structure for the Investigation of 3 dimensional Structure Analysis of Surface Active Sites.**
Kiyotaka ASAKURA
Hokkaido Univ.
- 2P-5 **DNP-SENS NMR characterization of a well-defined Pd-hybrid material for the Z-selective semi-hydrogenation of alkynes.**
Matthew P. CONLEY
ETH - Zurich
- 2P-6 **DFT calculation of surfaces of Au (111) and Pd (111) for Pd catalyst on the S-modified Au (111)**
Mami YOKOYAMA
Tottori Univ.
- 2P-7 **Palladium-catalyzed indole synthesis using isocyanide insertion**
Takeshi NANJO
Kyoto Univ.
- 2P-8 **Three-dimensional structure analysis of atomically dispersed metal species formed on a TiO₂ (110) surface premodified with functional organic molecules**
Satoru TAKAKUSAGI
Hokkaido Univ.
- 2P-9 **Synthesis of Carbazoles and Dibenzofurans by Supported Pd (OH)₂-Catalyzed Intramolecular Oxidative Coupling Reaction**
Zhenzhong ZHANG
Kyushu Univ.
- 2P-10 **Synthesis of Oligo (naphthalene-2,3-diyl)s by Iterative Suzuki-Miyaura Cross-Coupling with 1,8-Diaminonaphthalene-Masked 3-Iodo-2-naphthylboronic Acids.**
Aoi ISHIBASHI
Kyoto Univ.
- 2P-11 **¹¹⁹Sn Surfaced Enhanced NMR Spectroscopy as a Tool to Probe Silica Surface Heterogeneity**
Matthew P. CONLEY
ETH - Zurich

- 2P-12 **Surface Elemental Analysis by XANAM with a qplus sensor**
Shushi SUZUKI
Nagoya Univ.
- 2P-13 **Rhodium-Catalyzed Synthesis of Fluorenones via Intramolecular Acylation of Biarylcarboxylic Acids**
Kazusa MIYAGAWA
Osaka Prefecture Univ.
- 2P-14 **Study of Defect Structure of Cerium Oxide Nanoparticles from Catalytic Behavior**
Shih-Yun CHEN
National Taiwan Univ. of Science and Technology
- 2P-15 **Utilization of BCLA to acquire better fluorescence XAFS spectra to characterize nanoparticles in dilute systems**
Yohei UEMURA
Hokkaido Univ.
- 2P-16 **Nickel-catalyzed [2+2+2] Cycloaddition of an Imine with Alkynes**
Tomoya OHATA
Osaka Univ.
- 2P-17 **[Pd (PPh₃)₂ (Saccharinate)₂] - General Catalyst for Suzuki-Miyaura, Negishi cross-coupling and C-H bond functionalization**
SUHAS R. PEDNEKAR
Ramnarain Ruia College
- 2P-18 **Phosphine-stabilized supported rhodium catalysts for silylative coupling reactions**
Shinji TSUKADA
Kyoto Univ.
- 2P-19 **Aqueous-phase reforming of polyols over carbon supported platinum catalysts**
Chul Ung KIM
Korea Research Institute of Chemical Technology
- 2P-20 **Mono- and di-Aluminum Compounds Containing Pyrrole-Imine Ligands. Synthesis, characterization, and ring opening polymerization**
Shu Ya HSU
National Changhua Univ. of Education
- 2P-21 **Theoretical investigation of chlorine adsorption and chlorine removal for gold cluster catalyst**
Kohei TADA
Osaka Univ.
- 2P-22 **Formal *o*-Aryne Polymerization**
Keisuke TAKAHASHI
The Univ. of Tokyo
- 2P-23 **Hydrolysis of cellulose by oxygenated carbon catalysts**
Hiroyuki KAIKI
Hokkaido Univ.
- 2P-24 **Oxidation of Ethylene over Pt Nanoparticles Supported on Mesoporous Silica**
Chuanxia JIANG
Hokkaido Univ.

Aug. 6 (TUE)

- 2P-25 **Highly Dispersed Palladium Nanoparticles on Mesocellular Foam: An Efficient and Recyclable Heterogeneous Catalyst for Alcohol Oxidation**
Oscar VERHO
Stockholm Univ.
- 2P-26 **Palladium (II) -Catalyzed Direct *Ortho*-C-H Acylation of Anilides by Oxidative Cross Coupling with Aldehydes Using *tert*-Butyl Hydroperoxide as Oxidant**
Chun-wo CHAN
The Hong Kong Polytechnic Univ.
- 2P-27 **Synthesis of Fluorene Derivatives through Transition-Metal-Catalyzed Intramolecular Dehydrogenative Cyclization**
Masaki ITOH
Osaka Univ.
- 2P-28 **Low-valent Niobium-catalyzed Selective Intermolecular Cycloaddition of Alkynes with Alkenes or Nitriles**
Yasushi SATOH
Kansai Univ.
- 2P-29 **DNA-Mediated Metal Nanoparticles as an Efficient Catalyst for Hydrogenation and Suzuki-Miyaura Coupling Reactions**
Hisanori ITOH
Taksasago International Corporation
- 2P-30 **Nickel-catalyzed *ortho* C-H bond alkylation of aromatic amides with unactivated alkyl halides via bidentate-chelation assistance**
Yoshinori AIHARA
Osaka Univ.
- 2P-31 **Computational investigation of nature-inspired water oxidation catalysts**
Emily A. JARVIS
Loyola Marymount Univ.
- 2P-32 **Synthesis of Calcone Derivatives via Palladium-Catalyzed Decarboxylative Coupling**
Yuto UNOH
Osaka Univ.
- 2P-33 **Iridium-Catalyzed Alkylation of Methylquinolines with Alcohols and Vinylation of Carbazole derivatives with Vinylacetate**
Shinji OGAWA
Kansai Univ.
- 2P-34 **Palladium-catalyzed regioselective Suzuki-Miyaura-coupling reaction of aziridines**
Satoshi MINAKATA
Osaka Univ.
- 2P-35 **In Situ Preparation of Ion-Paired Chiral Ligand: Rapid Identification of Optimal Ligand for Palladium-Catalyzed Asymmetric Allylations**
Yoshiyuki HARA
Nagoya Univ.

- 2P-36 **Selective Oxidation of Styrene to Styrene Oxide Using Iron Catalyst in the Presence of Hydrogen Peroxide**
Yoshihiro KON
AIST
- 2P-37 **Fabrication of efficient BaTaO₂N photoanode for water splitting under visible light irradiation**
Masanobu HIGASHI
Kyoto Univ.
- 2P-38 **Monopersulfate oxidation of tetrabromobisphenol A catalyzed by ion-exchange resin-supported iron (III) -porphyrins**
Takafumi MIYAMOTO
Hokkaido Univ.
- 2P-39 **Preparation and Electrochemical Property of EDTA Chelate-attached Graphene Deposited Platinum Nanosize Catalysts**
Seok KIM
Pusan National Univ.
- 2P-40 **Utilization of Sulfocalixarene Linker between Dyes and a Pt-TiO₂ for Design of Visible-Light-Harvesting Assembly**
Takashi KAMEGAWA
Osaka Univ.
- 2P-41 **Acceleration of Fenton oxidation of phenol by using copper ion catalyst**
Jun MAEKAWA
Kyoto Univ.
- 2P-42 **Enhanced oxidation of 2,4,6-tribromophenol by a heterogeneous Fenton-like system with an Fe-loaded natural zeolite in the presence of reducing agents**
Masami FUKUSHIMA
Hokkaido Univ.
- 2P-43 **Active SnO₂/Pt/C cathode catalysts for polymer electrolyte fuel cells**
Shinobu TAKAO
The Univ. of Electro-Communications
- 2P-44 **Size control of Pt and Pd catalysts on graphene in the range from sub-nano to nano meter scale**
Wataru OKI
Tsukuba Univ.
- 2P-45 **SBA-15-functionlized iron porphyrin: an efficient catalyst for degradation bromophenol**
Qianqian ZHU
Hokkaido Univ.
- 2P-46 **Effect of preparation conditions on CO oxidation activity over Ag-Ni bimetal nano-particles**
Yuji MAHARA
Nagoya Univ.
- 2P-47 **Influence of a humic acid on the oxidation of brominated flame retardants using silica-supported iron (III) -phthalocyanine catalysts**
Shohei MAENO
Hokkaido Univ.

- 2P-48 **Earth Abundant FeS₂ Nanocrystals Ink as Catalytic Electrode for Dye-Sensitized Solar Cells**
Ying-Chiao WANG
National Taiwan Univ.
- 2P-49 **Role of Oxygen Storage Property of Supports on Low-Temperature Oxidation of CO over Supported Pd Catalysts**
Atsushi SATSUMA
Nagoya Univ.
- 2P-50 **Supercritical Water Gasification of Organic Residue from Ethanol Manufacturing Process**
Masayuki SHIRAI
AIST
- 2P-51 **Effect of Phosphorous Loading on Formation of Active Sites and Hydrodesulfurization Activity of Rhodium Phosphide Catalyst**
Yasuharu KANDA
Muroran Institute of Technology
- 2P-52 **Selective formation of active sites and catalytic functions for Co-Mo sulfide catalysts**
Takeshi KUBOTA
Shimane Univ.
- 2P-53 **Construction of Mono- and Multimolecular Layers with Viologen Moieties and Pt Complexes on Indium Tin Oxide Surfaces and Their Applications for Hydrogen Evolution Reaction**
Cepi KURNIAWAN
Hokkaido Univ., NIMS
- 2P-54 **Metal-Free Electrocatalysts from Tailored *Ex-Situ* N-Doped Carbon Nanotubes for Oxygen Reduction Reactions**
Giuliano GIAMBASTIANI
Institute of Chemistry of OrganoMetallic Compounds
- 2P-55 **Multi-copper complexes electrochemically catalyzing oxygen reduction reaction (ORR) monitored by in situ XAFS spectroscopy**
Ichizo YAGI
FC-Cubic TRA
- 2P-56 **The role of LaMnO₃ on the improved catalytic activity of Pd in co-supported Pd/LaMnO₃/Al₂O₃**
Akihiro TOU
Kyushu Univ.
- 2P-57 ***In Situ* XAFS Measurement of Platinum Nanoparticles Thin Layer Formed at Electrified Interface**
Hiromitsu UEHARA
Hokkaido Univ.
- 2P-58 **Theoretical Studies on the reaction mechanism and the catalytic activities of Oxygen Reduction Reaction on Ta₃N₅ (100) surfaces**
Eriko WATANABE
The Univ. of Tokyo
- 2P-59 **Photosplitting of water using Cu-based chalcopyrite thin film electrodes**
Shigeru IKEDA
Osaka Univ.

- 2P-60 **Modification of Ta₃N₅ with Alkaline Metal Salts and Oxygen Evolution Cocatalysts for Efficient Water Oxidation**
Takashi HISATOMI
The Univ. of Tokyo
- 2P-61 **Electrical conductivity of Ni/SDC electrocatalyst film fabricated by electrophoretic deposition**
Hiroyuki YAMAURA
Ehime Univ.
- 2P-62 **Investigation of aromatization of methane in the presence of propane over Zn-based/HZSM-5 catalysts using time of flight mass spectrometer**
Ming TIAN
The Univ. of Hong Kong
- 2P-63 **Computational Study for Steam Hydrocarbon Reforming on a Nickel Catalyst: Methane, Ethane, Propane, and the Mixtures**
Teppei OGURA
Kyushu Univ.
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Prinyanee SUTTIBUT
Chulalongkorn Univ.
- 2P-65 **Gresik Dolomite as Heterogeneous Catalyst in Biodiesel Production from *Jatropha curcas* Oil**
Ghani R. YORINDA
Airlangga Univ.
- 2P-66 **CH₄ conversion to syngas over CeZrO₂ and Ni/CeZrO₂: A mechanistic studies of the partial oxidation, steam and dry reforming reactions**
Agata LAMACZ
Polish Academy of Sciences
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Nassima RIACHE
King Abdullah Univ. of Science and Technology
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Masakazu HIGUCHI
Kyoto Univ.
- 2RRR-2 **Nanoporous gold catalyst for selective transformation of alkynes**
Yoshifumi ISHIKAWA
Tohoku Univ.
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Yan LIU
Chinese Academy of Sciences
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Hon Man LEE
National Changhua Univ. of Education

- 2RRR-5 Cis to Trans Isomerization of Lipids Catalyzed by Endogenous Radicals: Implications from Computational Chemistry**
Ching-Han HU
National Changhua Univ. of Education
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Abdul Majeed SEAYAD
Institute of Chemical and Engineering Sciences
- 2RRR-7 Catalytic transfer hydrogenation of carbonyl group using iron catalyst**
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Univ. of Szeged
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Tienan JIN
Tohoku Univ.
- 2RRR-9 Green catalytic processes for the formation of amides**
Fredrik TINNIS
Stockholm Univ.
- 2RRR-10 Immobilization of PdCl₂ (TDA)₂ on hydrophobic graphite oxide nanosheets, catalytic investigations**
Agnes MASTALIR
Univ. of Szeged
- 2RRR-11 Heme Thiolate Complexes as Remarkable Oxidizing Catalyst: Comparison with Elemental-substituted Complexes**
Tsunehiko HIGUCHI
Nagoya City Univ.

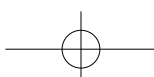
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- 3P-1 **Alcohol Oxidation in Multiphase Gas-liquid-solid Reactions over Porous Paper Composites with Ruthenium Hydroxide Catalysts**
Taichi HOMMA
Kao Corp.
- 3P-2 **Synthesis, characterization and evaluation of Pd electrocatalyst with unique cubic-geometry toward ethanol oxidation reaction.**
Noe ARJONA
Centro de Investigacion y Desarrollo Tecnológico en Electroquímica S.C.
- 3P-3 **Synthesis of Single-Handed Helical Polymethacrylates with Side-Chain Protonic Groups and Their Application as Ligands for Asymmetric Catalysis**
Tamaki NAKANO
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- 3P-4 **Selective Nitrile Hydrogenation to Primary Amine on K-Al₂O₃-supported Ru Catalyst**
Sutasinee KITAYAKARN
Institute for Molecular Science
- 3P-5 **Preparation of transition metal diisocyanide complexes monolayer on gold surface and application in catalysis**
Kotaro NAMBA
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Takeshi MATSUDA
Kitami Institute of Technology
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Ai NOZAKI
Osaka Univ.
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Yoshitaka SATOH
Hokkaido Univ.
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Felix SANCHEZ-ALONSO
Institute of Organic Chemistry
- 3P-10 **Pd-Catalyzed Enantioselective Ring-Opening Desymmetrization of *meso*-Compounds Using Helical-Polymer-Based Chiral Ligand PQXphos**
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Kyoto Univ.
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Jun HIRATA
Hokkaido Univ.
- 3P-12 **Synthesis of vanadium nanoparticles with novel diazenido ligation**
Mariko MIYACHI
The Univ. of Tokyo

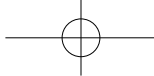


- 3P-13 **Silver (I) supramolecular complex catalyzed three-component coupling reactions under mild conditions**
Wei-Yin SUN
Nanjing Univ.
- 3P-14 **Redox treatment on catalytic oxidation activity of trigonal Mo₃VO_x catalyst**
Daichi KOBAYASHI
Hokkaido Univ.
- 3P-15 **Synthesis of nickel nanoparticles encapsulated in a hollow silica-based mixed oxide nanocomposites and its catalytic activity for selective CO methanation**
Takashi HARADA
Osaka Univ.
- 3P-16 **Electrochemical control of graphene edges**
Toshihiro SHIMADA
Hokkaido Univ.
- 3P-17 **Co-catalyzed cross-coupling of alkyl halides with alkyl Grignard reagents**
Takanori IWASAKI
Osaka Univ.
- 3P-18 **Palladium-catalyzed oxidative allylic C-H silylation**
Tony S ZHAO
Stockholm Univ.
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Hiroki YANO
Kansai Univ.
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Sojiro MINAMI
Osaka Univ.
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Yoshiaki AGAWA
ULVAC-RIKO, Inc.
- 3P-22 **Pd-Catalyzed Oxidative Amination of Primary Anilines with Olefins in the Presence of Dioxygen as a Sole Oxidant**
Kaoru YASUDA
Kansai Univ.
- 3P-23 **Copper (I) -Catalyzed Enantioselective Allylic Substitution Reaction with Alkylboranes**
Kentarō HOJOH
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- 3P-24 **Sulfimidation of sulfides catalyzed by ruthenium phthalocyanine complexes**
Jie-Sheng HUANG
The Univ. of Hong Kong
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Yuya MIKI
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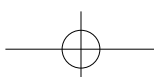


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Yoshinori YAMANOI
The University of Tokyo
- 3P-27 **A highly efficient catalytic system for polycondensation of 2,7-dibromo-9,9-dioctylfluorene and 1,2,4,5-tetrafluorobenzene via direct arylation**
Masayuki WAKIOKA
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- 3P-28 **Pd-Catalyzed Syntheses of Hypersilylated Oligothiophenes with Unique Photochemical Properties**
Hikaru INUBUSHI
Univ. of Tokyo
- 3P-29 **Enantioselective Alkynylation of Aldehydes Based on Cooperative Catalysis of Copper-Chiral Hydroxy Amino Phosphine Complexes**
Takaoki ISHII
Hokkaido Univ.
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Tatsuhiko YOSHINO
The Univ. of Tokyo
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Takuho NISHIMURA
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- 3P-32 **Development of sulfur-modified Au-supported palladium and its use in medicinal research**
Koji TAKAGI
Hokkaido Univ.
- 3P-33 **Enantioselective Cycloisomerization of 1,6-Enynes to Bicyclo [3.1.0] hexanes Catalyzed by a Chiral Cationic Rhodium (I) Complex and Benzoic Acid**
Koji MASUTOMI
Tokyo Univ. of Agriculture and Technology
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Akihiro NAKATANI
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- 3P-35 **Asymmetric Alkylation of Oxindoles with Racemic Secondary Halides Catalyzed by Chiral 1,2,3-Triazolium Salts**
Yusuke HAKAMATA
Nagoya Univ.
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Yuki KIMURA
Tokyo Univ. of Agriculture and Technology

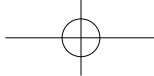


- 3P-37 **A Novel Class of the Oscillating Reactions: Homogeneous Carbonylation of Unsaturated Compounds in Pd Complexes Solutions**
Sergey N. GORODSKY
Moscow State Univ.
- 3P-38 **Direct Borylation of Primary and Secondary C (sp³)-H Bond via Silica-Supported Monophosphine-Ir Catalysts**
Ryo MURAKAMI
Hokkaido Univ.
- 3P-39 **Room Temperature Oxidative Indole Catalyzed by an (Electron-Deficient h⁵-Cyclopentadienyl) Rh (III) Complex**
Yuki HOSHINO
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Sangita KARANJIT
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AIST
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- 3P-46 **Effect of Ligand Substituents in Ethylene Copolymerization Using Half-Titanocenes Containing 1,3-Imidazolidin-2-iminato Ligands - MAO Catalysts**
Srisuda PATAMMA
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Kyosuke NAKAMURA
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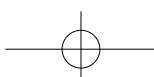
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Shinji TANAKA
Nagoya Univ.
- 3P-50 **Dynamic Kinetic Resolution on Asymmetric Ester Hydrolysis using Chiral Quaternary Ammonium Catalysts**
Katsuma TAKEHISA
Kyushu Univ.
- 3P-51 **Asymmetric Dearomatization of Fused Arenes by Gold-Catalyzed Intramolecular Double C-C Bond Formation**
Junko OKA
Tokyo Univ. of Agriculture and Technology
- 3P-52 **Ir Catalyzed Asymmetric Tandem Reaction of meso-Diols and Aldehydes**
Takeyuki SUZUKI
Osaka Univ.
- 3P-53 **Effect of the chain-length of hydrophilic polymer-stabilized quasi-homogeneous nanogold on the catalytic activity toward the aerobic alcohol oxidation**
Setsiri HAESUWANNAKIJ
The Graduate Univ. for Advanced Studies
- 3P-54 **Synthesis of Well-defined Poly (quinoxaline-2,3-diyl)s by Living Polymerization of 1,2-Diisocyanobenzenes: Their Selective Reflection Properties in Visible Light Region**
Yuuya NAGATA
Kyoto Univ.
- 3P-55 **Rhodium-Catalyzed Chemo-, Regio-, Diastereo-, and Enantioselective Cross-Cyclotrimerization of Silylacetylenes, Acetylenedicarboxylates, and Acrylamides**
Jun HARA
Tokyo Univ. of Agriculture and Technology
- 3P-56 **Efficient Ethylene Copolymerizations using Half-Titanocenes Containing Imidazolin-2-Iminato Ligands**
Wannida APISUK
Tokyo Metropolitan Univ.
- 3P-57 **Synthesis of Poly (quinoxaline-2,3-diyl)s Bearing Pyrene Pendants by Living Polymerization of Functionalized 1,2-Diisocyanobenzenes**
Tsuyoshi NISHIKAWA
Kyoto Univ.
- 3P-58 **Copper (I) -catalyzed enantioselective synthesis of optically active γ -alkoxyallylboronates**
Yuta TAKENOUCI
Hokkaido Univ.
- 3P-59 **Ni-Catalyzed selective formation of unsaturated carboxylic acid and phenylacetic acid from diketene**
Masanari KIMURA
Nagasaki Univ.
- 3P-60 **Palladium-catalyzed silylation of aryl chlorides with disilanes under base-free conditions**
Kei MURAKAMI
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- 3P-61 **Iridium-catalyzed *ortho*-C-H borylation of aromatic aldimines with diboron**
Tatsunosuke AMOU
Hokkaido Univ
- 3P-62 **Rhodium-Catalyzed Asymmetric [2+2+2] Cycloaddition of Two Different Alkynes with Cyclopropylideneacetamides**
Tomoka YOSHIDA
Tokyo Univ. of Agriculture and Technology
- 3P-63 **Direct Liquefaction of Vacuum Residue Heavy Oil with Water**
Hong Kyu AHN
KAIST
- 3P-64 **Adsorption and desorption of propane on Pd (111) : a van der Waals density functional study**
Martin SCHMAL
Nucat/PEQ/COPPE/UFRJ
- 3P-65 **A qualitative structure and activity relationship (QSAR) in heterogeneous and homogeneous olefin polymerization catalyst by using a combination of DFT calculation and PIO analysis**
Akinobu SHIGA
LUMMOX Research Lab.
- 3P-66 **Ultra-long Pt nanowires supported on TiO₂ coated carbon fibers as hybridcatalyst for methanol oxidation**
Jenn-Ming SONG
National Chung Hsing Univ.
- 3RRR-1 **Carbon Deposition of Ni/Sm_xCe_{1-x}O_{2-δ} (x= 0, 0.1, 0.2) Catalysts with Different Oxygen Vacancies in Ethanol Steam Reforming**
I-Ming HUNG
Yuan Ze Univ.
- 3RRR-2 **Mathematical Model for Hydrogen Production via Catalytic Steam Gasification of Biomass**
Tigabwa Y. AHMED
Univ. of Yamanashi
- 3RRR-3 **Preparation, performance and characterization of a SnO₂-decorated Pt-Sn (oxidized) /C cathode catalyst for oxygen reduction reaction in a polymer electrolyte fuel cell**
Gabor SAMJESKE
The Univ. of Electro-Communications
- 3RRR-4 **Preparation and catalytic application of ordered-nanoalloy catalysts**
Miho YAMAUCHI
Kyushu Univ.
- 3RRR-5 **Supercritical Water Gasification (SCWG) of Microalgae: A Review**
Laura Siew Zin TIONG
Univ. of Yamanashi
- 3RRR-6 **Ruthenium and Carbon Monoxide: A Deactivation Pathway for Ruthenium-Based Water Oxidation Catalysts?**
Markus D. KAERKAES
Stockholm Univ.



3RRR-7 Glycerol hydrogenolysis promoted by bimetallic palladium based catalysts in absence of added hydrogen

Francesco MAURIELLO
Univ. of Reggio Calabria

3RRR-8 Synthesis and physico-chemical characterization of Ag-Cu/Al₂O₃ and Ag-Cu/TiO₂ catalysts for glycerol hydrogenolysis

Dorota RUTKOWSKA-ZBIK
Jerzy Haber Institute of Catalysis and Surface Chemistry

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