Poster Presentations
Poster Session 1: PA-001 ~ PA076, RRR-001 ~ RRR011

PA-001
M. Ogura,[a,*] S. Fukuzawa,[a] S. Fukunaga,[a] H. Yamazaki,[b] J.N. Kondo[b] *([a]The University of Tokyo, Japan; [b]Tokyo Institute of Technology, Japan)*
"Basic Properties of *N*-Alkylated N-Mesoporous Silica and Zeolites"

PA-002
R. Koerin[a], S. Lacombe,[a,*] M. Boualleg,[a] E. Soyer,[a] A.-A. Quoineaud,[a] F. Maugé,[b] J.P. Gilson[b] *([a]IFP Energies nouvelles, France; [b]Laboratoire Catalyse & Spectrochimie (LCS), France)*
"Characterization of γ-Alumina Acidity as a Function of Crystallites Morphology in the Absence and in the Presence of Chlorine"

PA-003
Y. Koito,[a] K. Nakajima,[a,b] H. Kobayashi,[c] M. Kitano,[a] M. Hara,[a,d,*] *([a]Tokyo Institute of Technology, Japan; [b]PRESTO, Japan Science and Technology Agency, Japan; [c]Kyoto Institute of Technology, Japan; [d]ALCA, Japan Science and Technology Agency, Japan)*
"Lewis Acidic Property of Some Metal Trifrates in Water: ^{31}P NMR Measurement with Trimethylphosphine Oxide as a Basic Probe Molecule"

PA-004
K. Tsuji,* T. Ebihara, T. Fujikawa *(Cosmo Oil Co., Ltd, Japan)*
"Structural Analysis of USY Zeolite by Powder X-ray Diffraction and the Rietveld Method"

PA-005
S. Svelle,* T. Fjermestad, S. Malola, M. Zokaie, K.P. Lillerud, O. Swang *(University of Oslo, Norway)*
"Theoretical Studies of T-Atom Distribution and Mobility in Zeolites and Zeotypes"

PA-006
T. Hayashi,[a] T. Kitano,[a] T. Shishido,[a,b] K. Teramura,[a,b,c] T. Tanaka[a,b,*] *([a]Department of Molecular Engineering, Graduate School of Engineering, Kyoto University, Japan; [b]Elements Strategy Initiative for Catalysts and Batteries, Kyoto University, Japan; [c]PRESTO, Japan Science and Technology Agency, Japan)*
"Structure and Acid Property of Tungsten Oxide on Alumina Calcined at High Temperatures"

PA-007
J.-Y. Kim, S.-S. Lee, S. Lee* *(Kyung Hee University, Korea)*
"Mechanistic Study of Ion-Pair S_N2 Reactions Promoted by Lewis Bases: Bulky alcohols, Oligoethylene Glycols and Ionic Liquids"

PA-008
K. Sawabe,* Y. Yoshikawa, J. Ohyama, A. Satsuma *(Nagoya University, Japan)*
"Theoretical Study on Role of Lewis Acid of CeO_2 on Selective Nitrile Hydration"

PA-009
M.J. Wulfers, F.C. Jentoft* *(University of Oklahoma, USA)*
"The Life Cycle of Zeolitic Butane Isomerization Catalysts: Reaction Mechanism and Identification of Specific Carbonaceous Deposits"

PA-010
Z. Liu, F.C. Jentoft* *(University of Oklahoma, USA)*
"Aldol Condensation of 2-Butanone and Benzaldehyde as a Diagnostic Reaction for Acidic and Basic Sites on Solid Catalysts"

PA-011
F. Niu, P. Li and W.-G. Song* *(Institute of Chemistry, Chinese Academy of Sciences, China)*
"Condensation and Coupling Reactions Catalyzed by Solid-Liquid Interfacial Hydrogen Bonds"

PA-013
T. Wakihara, A. Ihara, S. Inagaki, J. Tatami, K. Sato, K. Komeya, T. Meguro, Y. Kubota *(Yokohama National University, Japan)*
"Catalytic Properties of Nanosized ZSM-5 Zeolite Prepared by Bead Milling and Post-Milling Recrystallization Method"

PA-014
H. Imai,* K. Shirakawa, X.-H. Li *(The University of Kitakyushu, Japan)*
"Effect of Acid Treatment on Catalytic Performance of MWW-Type Aluminosilicate in Acid Catalyzed Reactions"

PA-015
M. Liu, T. Yokoi, J.N. Kondo, T. Tatsumi* *(Tokyo Institute of Technology, Japan)*
"Synthesis of SFH-Type Zeolite with 14-Membered Ring and its Applications as Solid acid catalyst"

PA-016
M. Yoshioka, T. Yokoi, T. Tatsumi* *(Tokyo Institute of Technology, Japan)*
"Synthesis of CIT-1 Catalysts under Tumbling Conditions and its Catalytic Activity for MTO Reaction"

PA-017
H. Yamazaki, T. Yokoi, T. Tatsumi, J.N. Kondo* *(Tokyo Institute of Technology, Japan)*
"FT-IR Study on the Mechanism of Methanol-to-Olefin Reaction"

PA-018
M.J. Wulfers, F.C. Jentoft* *(University of Oklahoma, USA)*
“Insights into the Composition of the Hydrocarbon Pool on a Working Methanol-to-Hydrocarbons Catalyst from in situ UV–vis Spectroscopy”

PA-019
N. Tsunoji, Y. Furumoto, M. Sadakane, T. Sano* *(Hiroshima University, Japan)*
“Regeneration of Brønsted Acid Sites in Phosphorus-Modified HZSM-5(Ga) by Modification with Various Metals”

PA-020
H. Kobayashi, M. Nakaya, K. Kanie, A. Muramatsu* *(Tohoku University, Japan)*
“Preparation of Iron-Containing MFI Zeolite with Size Control for Light Olefin Synthesis”

PA-021
A. Muramatsu,[a,]* M. Nakaya,[a] K. Omata,[b] M. Yamada,[c] Y. Yamazaki[a] *([a]Tohoku University, Japan; [b]Shimane University, Japan; [c]Akita National College of Technology, Japan)*
“Regeneration for Promotion to Catalytic Activity of H-ZSM-5 for DME Conversion to Olefin”

PA-022
X. Li,* L. Zhang, S. Liu, S. Xie, D. Zhang, P. Feng, X. Zhu, K. Han, L. Xu* *(Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China)*
“Effects of Aluminum Contents and Distribution on the Catalytic Properties of ZSM-35 Zeolite”

PA-023
T. Tago,* T. Taniguchi, S. Fujiwara, Y. Nakasaka, T. Masuda *(Hokkaido University, Japan)*
“Effect of Surfactant Addition on Crystal Size of MOR Zeolite under OSDA-Free Condition”

PA-024
Y. Umehara, M. Itakura, N. Yamanaka, M. Sadakane, T. Sano* *(Hiroshima University, Japan)*
“First Synthesis of SAPO Molecular Sieve with LTL-Type Structure (HUZ-1) by Hydrothermal Conversion of SAPO-37 with FAU-Type Structure”

PA-025
P. Sazama,[a]* Z. Sobalik,[a] J. Dedecek,[a] I. Jakubec,[b] V. Parvulescu,[c] J. Rathousky,[a] H. Jirglova[a] *([a]J. Heyrovský Institute of Physical Chemistry, Academy of Sciences of the Czech Republic, Czech Republic; [b]Institute of Inorganic Chemistry, Academy of Sciences of the Czech Republic, Czech Republic; [c]University of Bucharest, Romania)*
“Unprecedented Enhancement of Activity and Selectivity in Acid-Catalyzed Reactions by Dealuminated Hierarchical Zeolites”

PA-026
K. Okumura, J. Oyama, N. Katada (*Tottori University, Japan)*
“Structure, Acid Property, and Catalytic Activity of Hierarchical Ultrastable Y Zeolite”

PA-027
T. Kamegawa,[a] A. Mizuno,[a] H. Yamashita,[a,b,]* *([a]Osaka University, Japan; [b]Kyoto University, Japan)*
“Hydrophobic Modification of SO_3H-Functionalized Mesoporous Silica and Investigations on the Enhanced Catalytic Performance”

PA-028
A. Feliczak-Guzik, I. Nowak* *(Adam Mickiewicz University in Poznan, Poland)*
“Synthesis of Mesoporous Materials of SBA-12–type Containing Transition Metals”

PA-029
A. Wawrzyńczak, A. Feliczak-Guzik, I. Nowak* (*Adam Mickiewicz University in Poznan, Poland)*
“Preparation of Mesoporous Silica Thin Films Supported on Fe_2O_3”

PA-030
M. Saito, H. Ikeda, Y. Horiuchi, M. Matsuoka* *(Osaka Prefecture University, Japan)*
“Design of Heterogeneous Lewis Acid Catalysts by Incorporation of Tin and Tin Triflate within Mesoporous Silicas”

PA-031
A. P. Singh* *(National Chemical Laboratory, India)*
“Mesoporous Acidic Organofunctionalized Zr-TMS and Basic Zeolites for Acid-Base Catalysed Reactions”

PA-032
Y. Takeda, N. Watanabe, T. Okada,* S. Mishima *(Shinshu University, Japan)*
“Surface Modification with Sulfonic Groups on Hollow Silica Microspheres Occluding Cobalt and Applications to Magnetically Collectable Ion-Exchangeable Solid and Solid-Acid Catalyst”

PA-033
S. Huh,* W.S. Kim *(Hankuk University of Foreign Studies, Korea)*
“Highly Efficient Heterogeneous Catalysis by Hollow Mesoporous Aluminosilicate Nanospheres”

PA-034
M. Fukuda, N. Tsunoji, Y. Ide, M. Sadakane, T. Sano* *(Hiroshima University, Japan)*
“Modification of Layered Silicate HUS-1 Precursor with Organic Cations and its Base Catalytic Activity”

PA-035

Z. Wang,[a,b] P. Fongarland,[a] G. Lu,[b] N. Essayem[a] (*[a]East China University of Science and Technology, China; [b]CNRS-Université Claude Bernard Lyon 1, France)*

"Reconstructed La, Y, Ce Modified MgAl Hydrotalcite as a Solid Base for Aldol Condensation Reaction in the Presence of H_2O"

PA-036

J. Hirota,[a] K. Teramura,[a, b, c] T. Shishido,[a, b] T. Tanaka[a, b,]* *([a]Department of Molecular Engineering, Graduate School of Engineering, Kyoto University, Japan; [b]Elements Strategy Initiative for Catalysts and Batteries, Kyoto University, Japan; [c]PRESTO, Japan Science and Technology Agency, Japan)*

"The Catalysis of Activated Layered Double Hydroxides (LDHs) for Aldol Reaction"

PA-037

H. Matsuhashi,* D. Funaki *(Hokkaido University of Education, Japan)*

"Synthesis of Water Tolerant Solid Base of TiO_2-Covered CaO"

PA-038

Y. Monakhova,[a] N. Tanchoux,[a] D. Tichit,[a,]* F. Quignard,[a] S. Morandi,[b] F. Prinetto[b] *([a]Institut Charles Gerhardt, France; [b]Università di Torino, Italy)*

"Mixed Lanthanum- and Alkaline-Earth Cation-Containing Catalysts Obtained by an Alginate Route: Synthesis and Basicity Characterization"

PA-039

T. Mitsudome,[a] M. Matoba,[a] T. Mizugaki,[a] K. Jitsukawa,[a] K. Kaneda,[a,b,]* *([a]Department of Materials Engineering Science, Graduate School of Engineering Science, Osaka University, Japan; [b]Research Center for Solar Energy Chemistry, Osaka University, Japan)*

"Design of Core-Shell Nanostructured AgNPs@CeO_2 Catalyst for Maximizing the Interaction between Ag Nanoparticles and Basic Sites of CeO_2"

PA-040

G. Costentin,[a,]* C. Drouilly,[a] J.M. Krafft,[a] F. Averseng,[a] H. Lauron-Pernot,[a] D. Bazer-Bachi,[b] C. Chizallet,[b] V. Lecocq,[b] H. Vezin[c] *([a]UPMC-CNRS, France; [b]IFP Energies nouvelles-Lyon, France; [c]USTL, France)*

"Influence of Oxygen Vacancies Formation and Stability of Zinc Oxide on the Conversion Level of Alcohols and on the deactivation process"

PA-041

I. Ogino, K. Murakami, Y. Satoh, S.R. Mukai* (*Hokkaido University, Japan)*

"Synthesis of a Monolithic Carbon Catalyst for Liquid-Phase Reactions in Flow Systems"

PA-042

Y. Satoh, I. Ogino, S.R. Mukai* *(Hokkaido University, Japan)*

"Synthesis of a Monolithic Catalyst of Nafion®-Silica with a Low Hydraulic Resistance Using the Ice Templating Method"

PA-045

M. Kitano,[a] K. Yamamoto,[a] K. Nakajima,[a] S. Hayashi,[b] M. Hara[a,]* *([a]Tokyo Institute of Technology, Japan; [b]National Institute of Advanced Industrial Science and Technology (AIST), Japan)*

"Evaluation of Catalytic Properties of Nb-doped Titanate Nanotubes"

PA-046

L. Mitchell,[a,]* B. Gonzalez-Santiago,[a] J.P.S. Mowat,[a] M.E. Gunn,[a] P. Williamson,[a] N. Acerbi,[b] M.L. Clarke,[a] P.A. Wright[a] *([a]University of St Andrews, UK; Johnson Matthey Technology Centre, UK)*

"Metal-Organic Frameworks (MOFs) as Lewis Acidic and Bifunctional Catalysts"

PA-047

K. Sugahara, T. Kimura, K. Kamata, K. Yamaguchi, N. Mizuno* (*The University of Tokyo, Japan)*

"Efficient Knoevenagel Condensation Catalyzed by A Highly Negatively Charged γ-Keggin Germanodecatungstate"

PA-048

Y. Liu,* K. Murata, M. Inaba, I. Takahara *(National Institute of Advanced Industrial Science and Technology (AIST), Japan)*

"Heterogeneous Carbonylation of Dimethyl Ether to Methyl Acetate over Bifuctional Catalysts Containing Rh and Heteropolyacids"

PA-049

T. Ando,[a] S. Sano,[a] Y. Kamiya[b,]* *([a] Graduate School of Environmental Science, Hokkaido University, Japan; [b] Research Faculty of Environmental Earth Science, Hokkaido University, Japan)*

"Acidic Properties of Fe^{3+}-Substituted Cs Salts, $Cs_{2.5}Fe_xH_{0.5-3x}PW_{12}O_{40}$"

PA-051

S. Nagashima,[a] T. Sasaki,[a] H. Yamazaki,[a] S. Kamiguchi,[b] T. Chihara[a,]* *([a]Saitama University, Japan; [b]The Institute of Physical and Chemical Research, Japan)*

"Vapor-Phase Intramolecular Eliminative Cyclization of α,ω-Disubstituted Alkanes to Yield Heterocyclic Compounds over Halide Cluster Catalysts"

PA-052

T. Shishido[a,b,]*, T. Kitano[a], K. Teramura[a,b,c], T. Tanaka[a,b] *([a]Department of Molecular Engineering, Graduate School of Engineering, Kyoto University, Japan; [b]Elements Strategy Initiative for Catalysts and Batteries, Kyoto University, Japan; [c]PRESTO, Japan Science and Technology Agency, Japan)*

"Brønsted Acid Property of Alumina-Supported Niobium Oxide Calcined at High Temperatures"

PA-053

T. Murayama, K. Omata, Y. Goto, J. Hirata, N. Kuramata, W. Ueda* *(Hokkaido University, Japan)*
"Hydrothermal Synthesis of W Based Complex metal Oxides - Structural and Solid Acid Property -"

PA-054

H. Nishiyama, R. Asari, Y. Inoue* *(Nagaoka University of Technology, Japan)*
"Activation of Scandium (III) Triflate Catalyst Coordinated on Surface for Aldol Condensation by Acoustic Wave Effects"

PA-055

A.K. Deepa, P.L. Dhepe* *(National Chemical Laboratory, India)*
"Lignin Depolymerization Using Solid Acid Catalysts"

PA-056

S. Furusato,[a] A. Takagaki,[a,]* S. Hayashi,[b] R. Kikuchi,[a] S.T. Oyama[a] *([a]The University of Tokyo, Japan; [b]National Institute of Advanced Industrial Science and Technology (AIST), Japan)*
"Decomposition of Cellulose into Water-Soluble Sugars by Dry Ball Milling in the Presence of Layered $HNbMoO_6$ Solid Acid Catalyst"

PA-057

A. Negoi,[a] L. Zala,[a] M. Tudorache,[a] R. Luque,[b] J.H. Clark,[c] V.I. Parvulescu,[a] S.M. Coman[a,]* *([a]University of Bucharest, Romania; [b]Universidad de Cordoba, Spain; [c]University of York, UK)*
"Starbons®-SO_2CF_3 Catalysts for Aqueous Phase Hydrolysis of Cellulose to Levulinic Acid"

PA-058

Y.-T. Chiu, Y.-C. Lee, C.-T. Chen, K.C.-W. Wu* *(National Taiwan University, Taiwan)*
"Acid-Base Bi-functionalized, Large-Pored Mesoporous Silica Nanoparticles for Cooperative Catalysis of One-Pot Cellulose-to-HMF Conversion"

PA-059

H. Kobayashi,[a] T. Komanoya,[b] K. Hara,[a] A. Fukuoka[a,]* *([a]Catalysis Research Center, Hokkaido University, Japan; [b]Graduate School of Chemical Sciences and Engineering, Hokkaido University, Japan)*
"Simultaneous Formation of Sorbitol and Gluconic Acid from Glucans Using Supported Ruthenium Catalyst"

PA-060

K. Jagodzinska, I. Nowak* *(Adam Mickiewicz University in Poznan, Poland)*
"High-Value-Added Chemicals Production from Sugars over Metal-Containing Nanomaterials"

PA-061
A. Takagaki,* Y. Morita, R. Kikuchi, S.T. Oyama *(The University of Tokyo, Japan)*
"Aqueous-Phase Cyclodehydration by Using a Water-Tolerant Solid Acid Catalyst for Transformation of Biomass Derivatives"

PA-062
J.C. van der Waal,* R.-J. van Putten, E. De Jong *(Avantium, The Netherlands)*
"The Dehydration of Different Ketose and Aldose Feeds to Hydroxymethylfurfural"

PA-063
M. Shirotori, S. Nishimura, K. Ebitani* *(Japan Advanced Institute Science and Technology, Japan)*
"One-Pot Synthesis of Furfural Derivative from Pentoses Using Solid Acid and Base Catalysts"

PA-064
Q. Wu, Y. Zhang, Y. Tang* *(Fudan University, China)*
"Catalytic Dehydration of Carbohydrates on Self-Exfoliatable Layered Niobic Acid in Aqueous System under Microwave Irradiation"

PA-065
R. Noma,[a] K. Nakajima,[a, b] M. Kitano,[a] M. Hara[a, c,]* *([a]Tokyo Institute of Technology, Japan; [b]PRESTO, Japan Science and Technology agency, Japan; [c] ALCA, Japan Science and Technology agency, Japan)*
"Furfural Production from a Xylose Aqueous Solution over Titanium Oxide"

PA-066
A.-C. Doiseau,* F. Rataboul, N. Essayen *(Université Lyon 1, France)*
"Synergic Effect between Solid Acid Catalysts and Aqueous Carboxylic Acids Solutions for the Cyclo-Dehydration of Xylose into Furfural"

PA-067
R. Otomo, T. Yokoi, J.N. Kondo, T. Tatsumi* *(Tokyo Institute of Technology, Japan)*
"Post-Synthetic Preparation of Beta Zeolites for Dehydration of Sugars"

PA-068
J.C. van der Waal, E. Mazoyer, A. de Sousa Dias, G.-J. Gruter *(Avantium, The Netherlands)*
"A New Method of Stabilizing Silica-Based Catalyst under Demanding Hydrothermal Conditions."

PA-069
S. Nishimura, H. Choudhary, P.A. Son, K. Ebitani* *(Japan Advanced Institute of Science and Technology, Japan)*
"Synthesis of Biomass-derived Organic Acids from Furan Compounds in Aqueous Media with Heterogeneous Acid Catalyst"

PA-070
L. Hora,* V. Kelbichová *(Research Institute of Inorganic Chemistry, UniCRE-RENTECH, Czech Republic)*
"Aldol Condensation of Furfural and Acetone on Layered Double Hydroxides"

PA-071
J. Ohyama,[a,b,]* A. Esaki,[a] Y. Yamamoto,[c] S. Arai,[c] A. Satsuma[a,b] *([a]Graduate School of Engineering, Nagoya University, Japan; [b]Kyoto University, Japan; [c]Ecotopia Science Institute, Nagoya University, Japan)*
"Selective Hydrogenation of 2,5-Hydroxymethylfurfural over Supported Gold Catalyst"

PA-072
H. Shintaku,[a] K. Nakajima,[a,b] M. Kitano,[a] M. Hara[a,c,]* *([a]Tokyo Institute of Technology, Japan; [b]PRESTO, Japan Science and Technology agency, Japan; [c]ALCA, Japan Science and Technology agency, Japan)*
"Acid Catalysis of TiO_4 Tetrahedra on Mesoporous Titanosilicates in Water"

PA-075
E. Blanco, P. Delichere, C. Lorentz, C. Pinel, J.-M. Millet, S. Loridant* *(CNRS-Université Claude Bernard Lyon 1, France)*
"Gas Phase Dehydration of Lactic Acid to Acrylic Acid over Alkaline Earth Phosphate Catalysts"

PA-076
G. Liu, B. Wang, S. Xia, T. Tan* *(Beijing University of Chemical Technology, China)*
"Efficient Acrylic Acid Production through Bio Lactic Acid Dehydration over Modified MCM-41 and the Effect of Acid/Basic Sites"

RRR-001 ~ RRR-011
See List of Recent Research Report, Page 46.

Poster Presentations
Poster Session 2: PB-001 ~ PB072, RRR-012 ~ RRR016

PB-001

G. Yang, C. Xing, Y. Yoneyama, N. Tsubaki* *(University of Toyama, Japan)*

"Zeolite Capsule Catalyst Prepared by Newly Developed Dual-Layer Method for Dimethyl Ether Direct Synthesis from Syngas"

PB-002

T. Ma,[a] H. Imai,[a,]* C. Chen, [a] Y. Suehiro, [b] S. Asaoka[a], X. Li[a] *([a]The University of Kitakyushu, Japan; [b]Japan Oil, Gas and Metals National Corporation (JOGMEC), Japan)*

"Gasoline Production from Syngas over Hybrid Catalysts in Near-Critical Phase"

PB-003

T. Taniguchi, K. Yoneta, Y. Nakasaka, T. Tago,* T. Masuda *(Hokkaido University, Japan)*

"Size-Controlled Synthesis for MTW Zeolites and Their Catalytic Performance in *n*-Hexane Cracking"

PB-004

K. Urata,[a] S. Furukawa,[b] K. Ozawa,[a] T. Komatsu[a,]*([a]*Department of Chemistry and Materials Science, Tokyo Institute of Technology, Japan; [b]Department of Chemistry, Tokyo Institute of Technology, Japan)*

"Deactivation of H-ZSM-5 in Catalytic Cracking of *n*-Hexane"

PB-005

A.J. Maia,[a] B. Louis,[b] Y.L. Lam,[c] M.M. Pereira,[a] *([a]Universidade Federal do Rio de Janeiro, Brazil; [b]Université de Strasbourg, France; [C]PETROBRAS, Brazil)*

"Ni-ZSM-5 Catalysts: Detailed Characterization of Metal Sites for Proper Catalyst Design"

PB-006

S. Inagaki,* S. Shinoda, Y. Kubota* *(Yokohama National University, Japan)*

"Post-Synthetic Modification of ZSM-5 Zeolite Catalyst with High Durability of Coke Formation During Paraffin Cracking"

PB-007

H. Mochizuki, T. Yokoi, S. Namba, J.N. Kondo, T. Tatsumi* *(Tokyo Institute of Technology, Japan)*

"Estimation of Acid Site Distribution in Pores of H-ZSM-5 Zeolite"

PB-008

N.Y. Kang, Y.J. Lee, W.C. Choi, Y.-K. Park* *(Korea Research Institute of Chemical Technology (KRICT), Korea)*

"Enhanced Hydrothermal Stability of ZSM-5 in Catalytic Naphtha Cracking; the Synthesis of ZSM-5 Using Nano-Sized Seed"

PB-009

A. Yamaguchi*, D. Jin, T. Ikeda, K. Sato, N. Hiyoshi, M. Shirai, F. Mizukami, T. Hanaoka *(National Institute of Advanced Industrial Science and Technology (AIST), Japan)*

"Modification of Acid Sites in ZSM-5 Using Phosphorus for Steam Cracking of Normal Hexane"

PB-010

Y. Wang, T. Yokoi, S. Namba, J.N. Kondo, T. Tatsumi* *(Tokyo Institute of Technology, Japan)*

"Catalytic Cracking of *n*-Hexane to Produce Propylene on Beta Catalysts"

PB-011

S. Hodoshima*, A. Motomiya, S. Wakamatsu, R. Kanai, F. Yagi *(Chiyoda Corporation, Japan)*

"Catalytic Propylene Production from Light Naphtha with MFI-Zeolite/Metal-Oxide Composites"

PB-012

H.E. van der Bij,[a] L.R. Aramburo,[a] B. Arstad,[b] B.M. Weckhuysen[a,]*(*[a]*Utrecht University, The Netherlands;* [b]*SINTEF, Norway)*

"Multi-Faceted Spectroscopy Reveals H-ZSM-5 Phosphatation Pathways"

PB-013

Y. Izutsu,[a,]* Y. Oku,[a] Y. Hidaka,[a] Y. Nakajima,[a] J. Fukuroi,[a] K. Yoshida,[b] Y. Sasaki,[b] M. Matsukata[a] ([a]*Waseda University, Japan;* [b]*Japan Fine Ceramics Center, Japan)*

"Skeletal Isomerization of *n*-Heptane over PtCr/Beta Catalyst"

PB-014

Y. Izutsu*, N. Kanaya, M. Mori, M. Matsukata *(Waseda University, Japan)*

"Effects of Calcination of WO_3/ZrO_2 on the Activity for Skeletal Isomerization of *n*-Heptane"

PB-015

Y. Imizu*, T. Nishiharaguchi, S. Kobayashi, H. Morikawa, H. Yamada *(Kitami Institute of Technology, Japan)*

"Hydrocarbon Conversions over Organosilane-Modified Zirconia"

PB-016

E.D. da Silva, A.A.S. Gonçalves, K.T.G. Carvalho, E.A. Urquieta-Gonzalez* *(Federal University of Sao Carlos, Brazil)*

"Acid Activity of Micro-Mesoporous Solids Derived from ZSM-5 Zeolites in the Cyclohexane Cracking"

PB-017

L. Pinard,[a] K.B. Tayeb, [b,]* S. Hamieh,[a] C. Canaff,[a] I. Batonneau-Gener,[a] Y. Pouilloux,[a] H. Vezin,[b] S. Maury,[c] O. Delpoux[c] *([a]Université de Poitiers, France; [b]Université des Sciences et Technologies de Lille, France; [c]IFPEN-Lyon, France)*

"Ethanol Transformation into Hydrocarbons on HBEA Zeolite: Understanding of Coke Growth Mechanism"

PB-019

W. Trakarnpruk* *(Chulalongkorn University, Thailand)*

"Pt/Phosphotungstic Acid/MCM-41 Catalysts in Glycerol Dehydration"

PB-020

R.B. Mane,[a] C.V. Rode[a,]*, A. Yamaguchi,[b] M. Shirai[b] *([a]CSIR- National Chemical Laboratory, India; [b]National Institute of Advanced Industrial Science and Technology (AIST), Japan)*

"Dehydration of Aqueous Glycerol to Acetol Mediated by Acid Sites of Cu Catalysts"

PB-022

K. Omata, K. Matsumoto, T. Murayama, W. Ueda**(Hokkaido University, Japan)*

"Hydrothermal Synthesis of W-Based Complex Metal Oxides and Their Application as Catalysts for Glycerol Transformation"

PB-024

K.-T. Li,* C.-L. Liu *(Tunghai University, Taiwan)*

"Glycerol Acetylation Catalyzed by Amorphous Ti-Zr Mixed Oxides"

PB-025

A. Feliczak-Guzik, I. Nowak* *(Adam Mickiewicz University in Poznan, Poland)*

"Catalytic Synthesis of Acetals by Using Different Mesoporous Molecular Sieves Containing Niobium"

PB-027

C.R. Kumar, K. Jagadeeswaraiah, P.S. Sai Prasad, N. Lingaiah* *(Indian Institute of Chemical Technology, India)*

"Tin-Tungsten Mixed Oxide: An Effective Solid Acid Catalyst for Synthesis of Glycerol Carbonate from Glycerol and Urea"

PB-028

Y. Masui,[a] S. Haga,[b] M. Onaka[a,]* *([a]Graduate School of Arts and Sciences, The University of Tokyo, Japan; [b]Graduate School of Science, The University of Tokyo, Japan)*

"Direct Synthesis of Dimethyl Carbonate from CO_2 and MeOH Catalyzed by Sn(O*t*-Bu)$_4$, and its Reaction Pathway via Acid-Base Concerted Mechanism"

PB-029
P.-H. Lin, Z.-H. Li, J.C.S. Wu* *(National Taiwan University, Taiwan)*
"Continuous Production of Biodiesel by Using Shell-Core Structural $Ca(C_3H_7O_3)_2$/CaO Catalyst in Rotating Packed Bed"

PB-030
O. Nakagoe, F. Takata, S. Tanabe* *(Nagasaki University, Japan)*
"Transesterification of Triolein to Biodiesel Fuel with Al Loaded CaO Catalysts"

PB-031
M.N. Varma,* A. Sarve *(Visvesvaraya National Institute of Technology, India)*
"Synthesis of Biodiesel Using Acid-base Homogeneous and Heterogeneous Catalyst"

PB-032
A. Macario,*, A. Aloise, G. Giordano, J.B. Nagy *(University of Calabria, Italy)*
"Crystalline Hybrid Microporous Materials in Biodiesel Production"

PB-033
T. Hayashi*, A. Shibahara, T. Nobori *(Mitsui Chemicals, Inc., Japan)*
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"Catalytic Performance of Regioselective Deactivated Nano-Scale ZSM-5 for Acetone-to-Olefin Reaction"

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T.K. Phung, E. Finocchio, G. Busca* *(Università di Genova, Italy)*
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A. Onda,* S. Ogo, Y. Iwasa, Y. Matsuura, K. Yanagisawa *(Kochi University, Japan)*
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Y. Murakami,* H. Tani, K. Asami, K. Fujimoto *(The University of Kitakyushu, Japan)*
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H Tani,* Y. Murakami, K. Asami, K. Fujimoto *(The University of Kitakyushu, Japan)*

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PB-041

A. Ishihara,* D. Kawaraya, K. Kimura, T. Hashimoto, H. Nasu *(Mie University, Japan)*

"Catalytic Cracking of Fat by Hierarchical Zeolite Containing Mesoporous Silica-Aluminas Using a Curie Point Pyrolyzer"

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P. Mohanty, [a,c,]* K.K. Pant,[a] S.N. Naik,[b] A. Hornung,[c] A. Zewdu[a] *([a]Department of Chemical Engineering, Indian Institute of Technology, India; [b]Centre for Rural Development and Technology, Indian Institute of Technology, India; [c]Aston University ,UK)*

"Thermo-Catalytic Processes for the Conversion of Waste Non-Edible Oil into Green Liquid Fuels: Effect of Pd/MCM-41 and Pd/SBA-15"

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C. Xing, G. Yang, Y. Kozakura, Y. Yoneyama, N. Tsubaki* *(University of Toyama, Japan)*

"Direct Synthesis of Middle Isoparaffin from Syngas Using the Completed Encapsulation of Cobalt Particles in Ordered Mesoporous H-ZSM-5 as Catalyst"

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M. Shirai,* O. Sato, N. Hiyoshi, A. Yamaguchi *(National Institute of Advanced Industrial Science and Technology (AIST), Japan)*

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M. Boltz,[a] M.C.S. de Mattos,[b] P.M. Esteves,[b] P. Pale,[a] B. Louis[a,]* *([a]Université de Strasbourg, France; [b]Universidade Federal do Rio de Janeiro, Brazil)*

"Green Route for the Chlorination of Deactivated Aromatics"

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F. Al-Wadaani,[a,]* E.F. Kozhevnikova,[b] I.V. Kozhevnikov[b] *([a]Taibah University, Saudi Arabia; [b]University of Liverpool, UK)*

"Zn(II)–Cr(III) Mixed Oxide as Efficient Bifunctional Catalyst for Dehydroisomerisation of α-Pinene to *p*-Cymene"

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S.S. Pedro, V.T. Galván, T.V. García *(Universidad Autónoma Metropolitana-Iztapalapa, Mexico)*

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S.S.M.A. Hakim, K. Shimizu* *(Hokkaido University, Japan)*

"Regioselective C-3 Alkylation of Indole by Primary Alcohols Using Platinum Nanocluster Catalyst"

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M. Bilal, S.D. Jackson* *(University of Glasgow, Scotland)*

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J.F. Ramírez-Rodríguez, S. Santiago-Pedroa, V.E. Tamayo-Galvána, T. Viveros-García* *(Universidad Autónoma Metropolitana-Iztapalapa, Mexico)*

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PB-053

Y. Kuwahara,[a,b] T. Ohmichi,[a] T. Kamegawa,[a] K. Mori,[a,b] H. Yamashita[a,c,]* *([a]Osaka University, Japan; [b]National Institute of Advanced Industrial Science and Technology (AIST), Japan; [c]Kyoto University, Japan)*

"Hydrocalumite and Its Derivatives Synthesized from Waste Slag as Heterogeneous Base Catalysts"

PB-054

M.M.R. Bhuiyan,[a] S.D. Lin,[a,]* T.C. Hsiao[b] *([a]National Taiwan University of Science and Technology, Taiwan; [b]Yuan Ze University, Taiwan)*

"Cu & Zn Loaded Hydrotalcite Catalysts for the C-C Bond Formation from Methanol"

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H. Noda, K. Motokura,* A. Miyaji, T. Baba *(Tokyo Institute of Technology, Japan)*

"Synergistic Catalysis of a Pd Complex and Organic Base on SiO_2 Surface for Acceleration of the Tsuji-Trost Reaction"

PB-056

C.-C. Chiu,[a] D. Başaran,[a] A. Genest,[a,b] N. Rösch[a,b,]* *([a]Technische Universität München, Germany; [b]Agency for Science, Technology and Research, Singapore)*

"Acidic Defunctionalization of Alcohols – A Computational Study"

PB-057

S. Takizawa, T.M.-N. Nguyen, N. Inoue, S. Hirata, H. Sasai* *(Osaka University, Japan)*

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T. Hara, D. Kizawa, N. Ichikuni, S. Shimazu* *(Chiba University, Japan)*
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C. Chaudhari, K. Shimizu* *(Hokkaido University, Japan)*
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M. Fujiwaki, T. Toyao, Y. Horiuchi, M. Matsuoka* *(Osaka Prefecture University, Japan)*
"Design of a Bifunctional Metal-Organic Framework Catalyst for One-Pot Deacetalization-Knoevenagel Reaction"

PB-061
F. Bekkar,* M. Belbachir *(Université d'Oran Es-Senia, Algeria)*
"Maghnite as Eco-Catalysist for a New Method of Synthesis of Polyepichlorohydrin Telechelic as Polymer Precursor for Synthesis of Hydrogel Hydrosoluble for Industrial Application"

PB-062
C. Santra,[a] K.K Bando,[b] B. Chowdhury [a,]* *([a]Indian School of Mines, India; [b]National Institute of Advanced Industrial Science & Technology (AIST), Japan)*
"Role of Acidic & Basic Sites on Au/M-CeO_2 (M= Ba^{2+}, Ca^{2+}, Mg^{2+}, Mn^{2+}) Catalyst for Benzyl Alcohol Oxidation Reaction Using Molecular O_2"

PB-063
A. Feliczak-Guzik, A. Wawrzynczak, I. Nowak* *(Adam Mickiewicz University in Poznan, Poland)*
"Structure-sensitive Reaction Sites in Mesoporous Niobosilicates"

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D.-W. Liang, W.-C. Changjean, S.-W. Tsai, Y. Ho, T.-C. Tsai* *(National University of Kaohsiung, Taiwan)*
"Catalytic Oxidation of Methyl-Benzotriazole for Synthesis of Carboxylic Derivative"

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G. Karoshi,* P. Kolar *(North Carolina State University, USA)*
"Exploring Novel Catalysts for Selective Oxidation of Methane into Value-added Chemicals"

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R. Baran,[a,b] T. Onfroy,[b] Y. Millot,[b] T. Grzybek,[a] S. Dzwigaj[b,]* *([a]AGH-University of Science and Technology, Poland; [b]UPMC Univ Paris 06, France)*
"Role of V-Single Site VSiBEA Zeolite Catalyst in Selective Catalytic Reduction of NO with Ammonia"

PB-067

E.P. Baston,[a,*] E.A. Urquieta-González[b] *([a]Federal University of São João Del-Rei, Brazil; [b]Federal University of São Carlos, Brazil)*

"Effect of Mo and Ni Incorporation Method into the Alumina-Zirconia Supports-Evaluation in the Thiophene Hydrodesulfurization"

PB-068

R. Liu, R. Wang* *(Shandong University, China)*

"Ion Exchange Resin Immobilized 12-Tungstophosphoric acid as a Catalyst for the Oxidative Removal of Organosulfur Targeted at Clean Fuel"

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V. Palma,[a,*] F. Castaldo,[a] P. Ciambelli,[a] G. Iaquaniello[b] *([a]Università degli Studi di Salerno, Italy; [b]Tecnimont KT S.p.A., Italy)*

"Selective Catalytic Systems for the Steam Reforming of Ethanol at Low Temperature"

PB-070

N. Toyama,[a] T. Umegaki,[a,*] X. Qu,[b] Y. Kojima,[a] *([a]Nihon University, Japan; [b]National Institute of Advanced Industrial Science and Technology (AIST), Japan)*

"Fabrication of Hollow Silica-Alumina Sphere and Their Catalytic Activity for Hydrolysis of Ammonia Borane"

PB-071

Y. Yamada,[a,b] A. Nomura,[a,b] S. Fukuzumi,[a,b,c,*] *([a]Osaka University, Japan; [b]ALCA, Japan Science and Technology Agency (JST), Japan; [c]Ewha Womans University, Korea)*

"Photocatalytic Hydrogen Peroxide Production by O_2 Reduction with Oxalic Acid Using Acetic Acid/Acetate as an Acid and Base Catalyst"

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R.A. Otaibi, A. Bagabas, A. Bajunaid, A. Alshammari, A. Alsayegh *(Petrochemical Research Institute, Kingdom of Saudi Arabia)*

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F. Vindigni,[a,]* M. Manzoli,[a] T. Tabakova,[b] V. Idakiev,[b] F. Boccuzzi,[a] A. Chiorino[a] *([a]University of Torino, Italy; [b]Bulgarian Academy of Sciences, Bulgaria)*

"Acetone as Probe Molecule to Investigate the Acid/Base Surface Property of Ceria-Supported Au Catalysts"

RRR-002

A.M.A.A. Majid*, M.S. Islam, A.M. Barakat *(King Saud University, Saudi Arabia)*

"Synthesis of Oxazoline-Imidazoline Ligands: Cu(II) Catalyzed Enantioselective Friedel-Crafts Alkylation of Indole to α,β-Unsaturated Ketone"

RRR-003

M. Kitagawa,[a] S. Miura,[b] R. Ohta,[b] K. Takahashi,[a] M. Kidera,[a] T. Urabe,[a] H. Matsuhashi[b] *([a]RIKEN, Japan; [b]Hokkaido University of Education, Japan)*

"Synthesis of MgO Covered with Zinc and Aluminum Oxides Using Acetylacetonate Complexes"

RRR-004

M. Ogasawara,[a,]* K. Saito,[a] C. Ryou,[b] S. Kato,[a] S. Nakata[a] *([a]Department of Applied Chemistry, Graduate School of Engineering and Resource Science, Akita University, Japan; [b]Department of Engineering in Applied Chemistry, Faculty of Engineering and Resource Science, Akita University, Japan)*

"Preparation of Organic-Inorganic Composite Using Layered Perovskite Type $HLaNb_2O_7$ and Quaternary Ammonium Salt"

RRR-005

D. Xu, J. Feng, Y. Fang, S. Che* *(Shanghai Jiao Tong University, China)*

"An Insight on the Role of Surfactant in the Formation of Microporous Molecular Sieves"

RRR-0006

S. Suacharoen,[a] D. N. Tungasmita[b,]* *([a]Program in Petrochemistry and Polymer Science, Chulalongkorn University, Thailand; [b]Materials Chemistry and Catalysis Research Unit, Department of Chemistry, Faculty of Science, Chulalongkorn University, Thailand)*

"Hydrothermolysis of Starch Using Metal Supported on Porous Aluminosilicates"

RRR-007

H.-L. Lin, G.-C. Zhang, Y.-T. Huang, S.-Y. Lin *(Yuanpei University, Taiwan)*

"Studies on Indomethacin-Saccharin Cocrystal Formation and Its Stability in Soft Gelatin Capsule"

RRR-008

P.A. Son, S. Nishimura, K. Ebitani* *(Japan Advanced Institute of Science and Technology, Japan)*

"Preparation of Zirconium Carbonate as Solid Base Catalyst for Aqueous Glucose-Fructose Isomerization and One-Pot Conversion into Levulinic Acid"

RRR-009

M. Manzoli,[a,]* G. Cerrato,[a] F. Boccuzzi,[a] F. Menegazzo,[b] M. Signoretto,[b] F. Pinna[b] *([a]University of Torino, Italy; [b]Cà Foscari University of Venice and INSTM-UdR Venezia, Italy)*

"Effect of Acid-Base Properties of Highly Dispersed Gold Catalysts in the Oxidative Esterification of Renewable Furfural"

RRR-010

J. Xi, Y. Zhang, X. Liu, J. Ren, G. Lu, Y. Wang* *(East China University of Science and Technology, China)*

"Catalytic Conversion of Cellulose into Isosorbide over Mesoporous Niobium Phosphate-Based Heterogeneous Catalyst via Sequential Process"

RRR-011

D. Ding, Y. Zhang, J. Wang, J. Xi, X. Liu, J. Ren, G. Lu, Y. Wang* *(East China University of science and Technology, China)*

"The Production of Levulinic Acid from Cellulose Catalyzed by Niobium-Based Porous Solid Acid and Its Upgrading to γ-Valerolactone"

RRR-012

T. Matsuoka, N. Katada* *(Tottori University, Japan)*

"Cracking of Alkylnaphthalene in the Co-Presence of Solid Acid Catalyst and MoO_3/Al_2O_3"

RRR-013

R.R. Shiriiazdanov,[a,b,]* A.R. Davletshin,[a,b] E.G. Telyashev,[a,b] E.A. Ipatova,[b] R.R. Abdyshev,[a,b] M.N. Rahimov[b] *([a]Institute of petroleum refining and petrochemistry, Russia; [b]Ufa State Petroleum Technical University, Russia)*

"Oligomerization of Refinery Gases in Catalytic Systems «$Ni_{6-x/2}H_x[SiW_{11}NiO_{39}]\cdot 23H_2O$ /MCM-41»"

RRR-014

R.R. Shiriiazdanov,[a,b,]* A.R. Davletshin,[a,b] V.K. Smirnov,[c] E.G. Telyashev,[a,b] E.A. Ipatova,[b] R.R. Abdyshev,[a,b] M.N. Rahimov[b] *([a]Institute of petroleum refining and petrochemistry, Russia; [b]Ufa State Petroleum Technical University, Russia; [c]CATACHEM Company, Russia)*

"Modern Trends in the Development of Alkylation Process"

RRR-015

R.R. Shiriiazdanov,[a,b] A.R. Davletshin,[a,b,]* E.G. Telyashev,[a,b] E.A. Ipatova,[b] R.R. Abdyshev,[a,b] M.N. Rahimov[b] *([a]Institute of petroleum refining and petrochemistry, Russia; [b]Ufa State Petroleum Technical University, Russia)*

"The Ways of the Nanocatalytics Formation for Conversion of Light Hydrocarbons into Motor Fuels"

RRR-016

M. Yoshimura, N. Tezuka, T. Imai, Y. Watanabe, R. Monden, Y. Ito, T. Sato* *(Showa Denko K.K., Japan)*

"Development of Titanium Oxycarbonitride (TiCNO)-Based Electrocatalyst for Oxygen Reduction Reaction with High Activity and Stability"