

Poster Session: Room Y (501) and Room Z (502)

August 6, Monday
Poster I

PA001	Crystal Structures of Organic-inorganic Hybrid Compounds KCS-3 and KCS-5	Takuji Ikeda, Yusuke Tsukamoto, Takuma Nakaoka, Katsutoshi Yamamoto	AIST Tohoku, Japan, The University of Kitakyushu, Japan
PA002	Aniline Adsorption on Crystalline Microporous Silica Prepared from Biotite Mica	Mana Yasui, Tatsuru Someya, Ryosuke Asaka, Yasushi Kobayashi, Atsushi Yamazaki	Waseda University, Japan
PA003	Inelastic Neutron Scattering Study of Water Confined in Zeolites and Swelling Clays	M. Jiménez-Ruiz, T. Lemishko, F. Rey, G. Sastre, E. Ferrage, L.R. Michot	Institut Laue-Langevin, France, Instituto de Tecnología Química (UPV-CSIC), Spain, Interfaces, Confinement, Matériaux et Nanostructures, France, Laboratoire Phenix, CNRS, France
PA004	Preparation of Organic-inorganic Composites as a Solid Base Catalyst using $\text{HCa}_2\text{Nb}_3\text{O}_{10}$ and Alkyltrimethylammonium Salt	Masataka Ogasawara, Takuto Ban, Masahiro Aoki, Kanji Saito, Sumio Kato	Akita University, Japan
PA005	Facile Synthesis of Titanium Metal-Organic Frameworks with Two-Dimensional Transition Metal Dichalcogenides as Metal Sources	Yi Liu, Yanwei Sun, Jinming Lu, Yan Zhang, Xinwen Guo, Chunshan Song	Dalian University of Technology, China, The Pennsylvania State University, USA
PA006	Zn/Co-based Porous Metal Azolate Frameworks from Metal Nitrates and Imidazoles: Preparation, Characterization, and N_2/CO_2 Adsorption Separation	Khulan Baterdene, Kuen-Song Lin, Chao-Lung Chiang, Cheng-Yang Tang, Guan-Jun Huang	Yuan Ze University, Taiwan
PA007	One-step Conversion of Potassium-rich Coordination Polymers to Hierarchical Porous Carbons for Lithium-sulfur Batteries	Ming Xue, Ying Pan, Shilun Qiu	Jilin University, China
PA008	One-pot Synthesis of Hollow Silica Spheres Encapsulating Pd Nanoparticles and Aminopolymers and its Application in Semihydrogenation of Alkynes	Yasutaka Kuwahara, Hiroto Kango, Hiromi Yamashita	Osaka University, Japan, Kyoto University, Japan
PA009	Porous Coordination Polymer Nano/Micromaterials: Adsorption and Sensing Properties	Wei-Yin Sun	Nanjing University, China
PA010	Post-cationic Modification of Pyrimidine-based Conjugated Microporous Polymer for Ultra-Fast Adsorption and Separation of Anionic dyes in Aqueous	Yuchuan Liu, Zhiqiang Liang, Xiaowei Song	Jilin University, China
PA011	Accessing Pore Structure of IPC Zeolites using Carbon Dioxide Adsorption Heats	Mariya Shamzhy, Arnošt Zukal, Martin Kubů, Jiří Čejka	J. Heyrovský Institute of Physical Chemistry, The Czech Academy of Sciences, Czech Republic
PA012	Synthesis of UiO-66 by Vapor Phase Transfer Method	Daichi Kanazawa, Naoki Takaya, Kyohei Ueno, Manabu Miyamoto, Shigeyuki Uemiya, Yasunori Oumi	Gifu University, Japan
PA013	Efficient Removal of 4-Methyl imidazole utilizing Zeolite-organic Polymer Composites	Takako Nagase, Yoshikazu Hashimoto, Hiroyuki Naganuma, Koichi Sato	AIST, Japan, Kirin Company Limited, Japan
PA014	Preparation of Single Crystalline Mesoporous N-doped TiO_2 with Low Thermal Conductivity toward Oxide-Based Thermoelectric Materials	Yuta Shimasaki, Quansheng Guo, Atsushi Shimojima, Hiroaki Wada, Takao Mori, Kazuyuki Kuroda	Waseda University, Japan, NIMS, Japan, University of Tsukuba, Japan

PA015	Development of Catalyst for Production of Normal Paraffins with Even-carbon-numbered via Selective Hydrodeoxygenation of Vegetable Oil	Kihoon Kim, Daiki Arai, Nennen Ou, Eika Qian	Tokyo University of Agriculture and Technology, Japan
PA016	Resource Recovery of Copper Nanopowders from CuCl ₂ Containing Waste Etchants by Using a Microemulsion Method	Kuen-Song Lin, Yi-Fan Lai, Ruei-Ching Jeng, Ndumiso Vukile Mdllovu	Yuan Ze University, Taiwan
PA017	Removal of Silver (I) from Aqueous Solution with Japanese Natural Zeolites, Mordenite and Clinoptilolite: A Comparative Study	Takaaki Wajima	Chiba University, Japan
PA018	OSDA Free MTT Zeolite as a Component of Dewaxing Catalyst	Denis N. Gerasimov, Vadim V. Fadeev, Ekaterina G. Petrova	RN-RDC, LLC, Russia
PA019	Selective Coating of CeO ₂ on YNU-5 Containing 12-12-8-ring Pore for Improved Methanol-to-Olefin Performance	Naoto Nakazawa, Sung Jun Park, Hoi-Gu Jang, Yoshihiro Kubota, Sung June Cho	Yokohama National University, Japan, Chonnam National University, Korea
PA020	Synthesis of Phosphorus-modified AFX Zeolite by the Dual-template Method with Tetraethylphosphonium Hydroxide as Phosphorus Modification Agent	Emi Mitani, Yoshitaka Yamasaki, Nao Tsunoji, Masahiro Sadakane, Tsuneji Sano	Hiroshima University, Japan
PA021	Synthesis and Characterization of Zeolite Synthesis and Characterization of Zeolite Na P from Rice Husk Ash using Hydrothermal Method	Mattana Santasnachok, Paphawee Sriammorn, Siriputchara Phurichaivanant, Hendra Winastu	Burapha University, Thailand, Nam Ngiep 1 Copmpany, Thailand
PA022	Synthesis of Mesoporous Silica Foams from Fly Ash for CO ₂ Capture and Nd ³⁺ Adsorption	Siqian Zhang, Seenu Ravi, Wha-Seung Ahn	Inha University, Korea
PA023	Effects of Thermal Activation Conditions on Physicochemical Properties of Nanosheet-derived Mg-Al Mixed Oxides	Rei Tanaka, Isao Ogino, Shuichiroh Kudo, Shin R. Mukai	Hokkaido University, Japan
PA024	Synthesis of AEI type germanoaluminophosphate (GeAPO-18) and its application in Methanol to Olefins (MTO)	Koji Miyake, Kaito Ono, Yuichiro Hirota, Yoshiaki Uchida, Shunsuke Tanaka, Manabu Miyamoto, Norikazu Nishiyama	Osaka University, Japan, Kansai University, Japan, Gifu University, Japan
PA025	Organotemplate-free Synthesis of High-silica Zeolite with TON Structure in the Absence of Zeolite Seeds	Yeqing Wang, Xiangju Meng, Fengshou Xiao	Zhejiang University, China
PA026	Aerosol-assisted Hydrothermal Synthesis of TS-1 Zeolite as a Efficient Catalyst for Propylene Epoxidation	Guang Xiong, Dan Hu, Zhendong Guo	Dalian University of Technology, China
PA027	Influence of Alkalinity on Intergrowth of ZSM-5	Takuya Shiki, Koji Nishi, Natsumi Kamiya	National Defense Academy Japan
PA028	Seed-assisted Synthesis of Ti-CHA Zeolite and Its Thermal Stability	Sadao Araki, Hiroyasu Ishii, Satoshi Imasaka, Hideki Yamamoto	Kansai University, Japan
PA029	Zincotitanophosphates Composed of α -TiPO ₄ Sheets with Tunable Organic linkers, Inter-calated Molecular Photoluminescence and Catalytic Properties	Ling-I Hung, Pei-Lin Chen, Sue-Lein Wang	National Tsing Hua University, Taiwan
PA030	SAPO-11 Crystals: Influence of the Synthesis Medium on the Morphology and Texture	Irina A. Tiuliukova, Nina A. Rudina, Ekaterina V. Parkhomchuk	Boriskov Institute of Catalysis SB RAS, Russia, Novosibirsk State University, Russia
PA031	Effects of Synthesis Temperature on Crystalline Morphology of ZSM-5	Natsumi Kamiya, Takuya Shiki, Shuto Suzuki, Koji Nishi	National Defense Academy, Japan

PA032	Influence of Additives on the Morphological Variation of Ordered Mesoporous Silica using Block Copolymer and its Replicated Ordered Mesoporous Carbon	Jiyeon Lee, Seungwoo Lee, Bong Ho Lee, Do Hyung Kim, Chanho Pak	Gwangju Institute of Science and Technology, Korea
PA033	Synthesis of Hollow Zeolite for Catalytic Applications	Céline Pagis, Nicolas Bats, Mathias Dodin, Alain Tuel, David Farrusseng	Université de Lyon-CNRS, France, IFP Energies Nouvelles, France
PA034	Tailored Hierarchical ZSM-5 for Fructose Conversion to Hydroxymethylfurfural	Xicheng Jia, Iris K.M. Yu, Daniel C.W. Tsang, Alex C.K. Yip	University of Canterbury, New Zealand, Hong Kong Polytechnic University, Hong Kong
PA035	Acidic and Catalytic Properties of Mechanochemically Treated USY Zeolite	Shunsuke Takahashi, Masayuki, Matsumoto, Yoshihiro Kubota, Satoshi Inagaki	Yokohama National University, Japan
PA036	Acidic Properties of High-Silica LTA Zeolites	Sang Hyun Ahn, Gi Tae Park, Jung Cho, Hwajun Lee, Sung Hwan Park, Suk Bong Hong	POSTECH, Korea
PA037	Influence of Brønsted and Lewis Sites Location on Electron Transfers in ZSM-5 Modified Zeolites	T. Cremoux, M. Hureau, I. Batonneau-Gener, A. Moissette, J.-L. Paillaud, E. Ligner, C. Gomes de Morais, S. Laforge, C. Marichal-Westrich	University of Lille, France, University of Poitiers, France, University of Haute-Alsace, France
PA038	Kinetic Study of Coke Oxidation Formed on ZSM-5 and Beta by Toluene Methylation Reaction	Yuta Nakasaka, Shota Nakaoka, Takuya Yoshikawa, Takao Masuda	Hokkaido University, Japan
PA039	Single Crystal Structure of Cadmium Sulfide Nanoclusters CdS in the Zeolite Y (Si/Al = 1.56)	Dae Jun Moon, Hyeon Uk Choo, Karl Seff, Woo Taik Lim	Andong National University, Korea, University of Hawaii, USA
PA040	Benzene Sorption Complex of Fully Dehydrated Fully Cd ²⁺ -Exchanged Zeolite Y (FAU) and Its Single-Crystal Structure	Dae Jun Moon, Jae Myeong Lee, Jong Min Choi, Woo Taik Lim	Andong National University, Korea
PA041	Synthesis and Characterization of Mesoporous ZSM-5 Catalysts for CO ₂ Conversion	Khulan Baterdene, Kuen-Song Lin	Yuan Ze University, Taiwan
PA042	Solketal Preparation via Sulfonic Beta Catalyst	Rachatawan Yaisamlee, Duangkamon Jiraroj, Duangamol N. Tungasmita	Chulalongkorn University, Thailand
PA043	Removal of TNT, RDX, and HMX Explosives using Permeable Zero Valent Iron Nanoparticles Barrier	Sat Septian Dwitya, Kuen-Song Lin, Hua Kao, Yi-Fan Lai	Yuan Ze University, Taiwan
PA044	NH ₃ -SCR Performance of Cu Catalysts Supported on Phosphorus-modified CHA Zeolite	Takeshi Ohnishi, Yumiko Shimada, Tsuneji Sano, Nao Tsunoji, Toshiyuki Yokoi, Masaru Ogura	The university of Tokyo, Japan, Hiroshima University, Japan, Tokyo Institute of Technology, Japan
PA045	Novel MTO Catalyst Having a Remarkable Stability under Severe Steaming Conditions	Hiroaki Onozuka, Masahiro Hara, Susumu Tsutsuminai, Tohru Setoyama	Mitsubishi Chemical Corporation, Japan, Japan Technological Research Association of Artificial Photosynthetic Chemical Process (ARPCHEM), Japan
PA046	Synthesis of Pd/Ag Plasmonic Nanocatalyst Supported within the Mesoporous Channels of Silica for Efficient Hydrogen Production under Visible Light Irradiation	Priyanka Verma, Yasutaka Kuwahara, Kohsuke Mori, Hiromi Yamashita	Osaka University, Japan, Kyoto University, Japan, JST-PRESTO, Japan
PA047	Structured ZSM-5 Supported on SiC Foams for Methanol-to-propylene (MTP) Process	Yilai Jiao, Jinsong Zhang	Institute of Metal Research (IMR), Chinese Academy of Sciences, China
PA048	Efficient Photocatalytic Water Splitting into Hydrogen and Hydrogen Peroxide over Silver-Loaded Tantalum-Based Pyrochlore Nanoparticles	Chia-Min Yang, Yen-Chun Lin, Meng-Chun Hsieh	National Tsing Hua University, Taiwan
PA049	Ferrierite vs. γ -Al ₂ O ₃ : the Superiority of Zeolites in Terms of Water Resistance in Methanol Dehydration to DME	Massimo Migliori, Enrico Catizzone, Antonio Purita, Alfredo Aloise, Girolamo Giordano	University of Calabria, Italy

PA050	Rhodium Sub-nano Cluster on Mordenite for Selective Catalytic Oxidation of Methane to Syngas at Low Temperature	Hirokazu Kobayashi, Yuhui Hou, Atsushi Fukuoka	Hokkaido University, Japan
PA051	Catalytic Conversion of Methane to Light Olefins over TiO ₂ /ZSM-5 Compounded Particles via Oxidative Coupling of Methane in Electric Field and Ethylene-to-Propylene Reaction	Qiao Han, Atsuhiko Tanaka, Masayuki Matsumoto, Yoshihiro Kubota, Satoshi Inagaki	Yokohama National University, Japan, JST-PRESTO, Japan
PA052	High Silica Zeolite Catalyzed Friedel-Crafts Acylations of 2-Methoxynaphthalene and Anisole Using Acetic Anhydride in Acetic Acid	Makoto Makihara, Hisakazu Aoki, Tomoyoshi Yamazaki, Kenichi Komura	Gifu University, Japan
PA053	Conversion of Chloromethane into Light Olefins over CHA- and AEI-type Zeolytic Catalysts	Sungjoon Kweon, Min Bum Park, Yong Hun Shin, Ho-Jeong Chae	Incheon National University, Korea, Korea Research Institute of Chemical Technology, Korea
PA054	Tailored Fe-ZSM-5 Catalyst Design for Aqueous Phase Methane Oxidation	Kirstie Milne, Giulia Tarantino, Ceri Hammond	Cardiff University, UK
PA055	Lignin Depolymerization into Aromatic Monomers over Sulfated Metal-Organic Framework-808	Kevin C.-W. Wu, Jing Rou Boo, Po-Chun Han	National Taiwan University, Taiwan
PA056	Biodiesel Production from Palm oil using Potassium Hydroxide Loaded on NaP Zeolite	Mattana Santasnachok, Paphawee Sriammorn, Siriputtchara Phurichaivoranant, Lalita Mankarn, Wanwisa Kongsee	Burapha University, Thailand
PA057	The Study of Aggregation and Dispersion Behavior of Cu Ion in Cu/Zeolites via in situ XAFS and ESR	Masahiro Kunisu, Takatoshi Sawai, Yoji Yamaguchi, Masaru Ogura	Toray Research Center, Japan, The University of Tokyo, Japan
PA058	Preparation of Small Pore Zeolite SAPO-42 with Various Si Contents for Water Adsorption	Shuai Chang, Ki-Hoon Park, Sung June Cho	Chonnam National University, Korea
PA059	Synthesis of Dimethyl ether from Methanol over HEU Type Zeolite	Sho Ishii, Naohiro Shimoda, Shigeo Satokawa	Seikei University, Japan
PA060	Dealkylation of Alkylphenol to Phenol Using MFI-type Zeolite	Takahiro Umezawa, Takuya Yoshikawa, Yuta Nakasaka, Takao Masuda	Hokkaido University, Japan
PA061	Synthesis and Catalytic Application of Sn-containing Mesoporous Silica Nanospheres	Yunan Wang, Junko N. Kondo, Toshiyuki Yokoi	Tokyo Institute of Technology, Japan
PA062	Copper-Exchanged Template-free SSZ-13 Zeolite as NH ₃ -SCR Catalyst	Yong Wang, Toshiki Nishitoba, Xiangju Meng, Feng-Shou Xiao, Xiulian Pan, Xinhe Bao, Chuan Shi, Weiping Zhang, Hermann Gies, Dirk De Vos, Ute Kolb, Ahmad Moini, Mathias Feyen, Robert McGuire, Stefan Maurer, Ulrich Müller, Toshiyuki Yokoi	Tokyo Institute of Technology, Japan, Zhejiang University, China, Dalian Institute of Chemical Physics, China, Dalian University of Technology, China, Ruhr-Universität Bochum, Germany, K. U. Leuven, Belgium, Johannes Gutenberg-Universität Mainz, Germany, BASF Corporation, USA, BASF SE, Germany
PA063	Synthesis of Birdcage-type Zeolite Encapsulating Pt Nanoparticles and its Catalytic Activity and Thermal Stability for Dry Reforming of Methane	Hiroyasu Fujitsuka, Takahito Kobayashi, Takaaki Furuya, Teruoki Tago	Tokyo Institute of Technology, Japan
PA064	Dehydrocyclization-Cracking of Methyl Oleate Using Novel Zeolite-Containing Hierarchical Composite-Supported Metal Catalysts	Atsushi Ishihara, Atsuki Niimi, Ryouhei Tsutsui, Tadanori Hashimoto, Hiroyuki Nasu	Mie University, Japan
PA065	Adsorption of Biomass-derived Polyols onto MOFs from Aqueous Solutions	Hua Jin, Yanshuo Li, Weishen Yang	Ningbo University, China, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China
PA066	Evaluation of Localized Hydrophobicity in MSE-type Titanosilicate Ti-YNU-2	Satoshi Inagaki, Midori Kaneda, Mei Takeyama, Akira Endo, and Yoshihiro Kubota	Yokohama National University, Japan, AIST, Japan

PA067	Hydrogen and Deuterium Sorption Properties of Ion-Exchanged CHA Prepared by Hydrothermal Conversion of FAU	Akira Taguchi, Takumi Nakamori, Yuki Yoneyama	University of Toyama, Japan
PA068	Selective Removal of Perfluorinated Surfactants via Adsorption onto All-silica Zeolites	Matthias Van den Bergh, Trees De Baerdemaeker, Steven Mullens, Dirk De Vos	KU Leuven, Belgium, Flemish Institute for Technological Research-VITO, Belgium
PA069	Nano-fibrous Silica Supported MgO as an Efficient High-Temperature CO ₂ Adsorbent	Aamir Hanif, Jin Shang	City University of Hong Kong, China
PA070	Measurement of NO, NH ₃ Diffusion within Cu-ZSM-5 by Constant Volumetric Method	Takumi Kanda, Yuta Nakasaka, Takuya Yoshikawa, Takao Masuda	Hokkaido University, Japan
PA071	Advanced Characterization of Hierarchical Zeolites for Optimal Xylene Separation	Izabel Cristina Medeiros Costa, Catherine Laroche, Javier Pérez-Pellitero, Benoit Coasne	IFPEN, France, CNRS/Univ. Grenoble Alpes, France
PA072	Surface-modified CHA Zeolite Membrane with High-selectivity for Hydrogen Separation in an Artificial Photosynthesis Process	Kiminori Sato, Mikio Hayashi, Saika Otsubo, Takahiko Takewaki	Mitsubishi Chemical Corporation, Japan
PA073	Effects of Structural Crystallinity and Defect of Microporous Al-MOFs Filled Chitosan Mixed Matrix Membranes for Pervaporation of Water/Ethanol Mixtures	Madhan Vinu, Ting-Yu Liu, Yi-Feng Lin, Chun-Chuen Yang, Chia-Her Lin, Yusuke Yamauchi, Yu-Heng Deng, Kevin C.-W. Wu	Chung Yuan Christian University, Taiwan, Chung Yuan Christian University, Taiwan, Chung Yuan Christian University, Taiwan, National Institute for Materials Science (NIMS), Japan, University of Wollongong, Australia, National Taiwan University, Taiwan
PA074	High Hydrogen Permeation through MFI Membranes Prepared in Fluorine Media	Kohei Suzuki, Hikari Uehara, Daishi Takayama, Ayumi Ikeda, Mikihiro Nomura, Takuya Okuno, Hiramasa Tawarayama, Shinji Ishikawa, Kazuya Kuwahara	Shibaura Institute of Technology, Japan, Sumitomo Electric Industries, Ltd., Japan
PA075	Sulfur-Tolerant Highly Active Sodalite@Pt/Al ₂ O ₃ Core-Shell Catalyst as Hydrogen Spillover Emission Source for Hydrodesulfurization	Hailing Guo, Feng Jiao, Junjuan Liu, Yongming Chai, Hussein Awala, Svetlana Mintova, Chenguang Liu	China University of Petroleum (East China), China, Normandie Univ, ENSICAEN, UNICAEN, CNRS, France
PA076	Permeation Properties through Ion-exchanged FAU Membranes	Satoshi Osada, Yuki Yoshida, Nayumi Makita, Takuya Asou, Ayumi Ikeda, Mikihiro Nomura	Shibaura Institute of Technology, Japan
PA077	Post-treatment of MFI Membranes to Control Pore Sizes	Toshihiro Yoshimura, Shusei Tanizume, Mikihiro Nomura	Shibaura Institute of Technology, Japan
PA078	Bottom-up Synthesis of 2D Nanosheet Zeolitic Imidazolate Framework (ZIF) Membranes for Gas Separation	Yujia Li, Pei Nian, Haiou Liu, Xiongf Zhang	Dalian University of Technology, China
PA079	Facile Synthesis of Zeolitic Imidazolate Frameworks ZIF-8 Membranes following by "like growth like" Principle	Aisheng Huang, Xiaocao Wu	East China Normal University, China
PA080	Theoretical Investigation on the Methane Activation in Ion-exchanged MFI Zeolite toward Direct Methane Conversion	Kaoru Yamazaki, Nobuki Ozawa, Momoji Kubo	Tohoku University, Japan
PA081	Catalytic CO ₂ Hydrogenation to Formic Acid over Defect Graphene Coordinated Pd-Ni Nano-particles	Shiuan-Yau Wu, Hsin-Tsung Chen	Chung Yuan Christian University, Taiwan

August 8, Wednesday

Poster II

PB001	Higher Silica Heulandite Occurred From Chichijima, the Ogasawara Islands, Japan	Mana Yasui, Ayaka Fujita , Hiroshi Hagiya , Atsushi Yamazaki	Waseda University, Japan, Tokyo City University, Japan
PB002	Unusual Occurrence of Zeolite and Related Minerals in the Shirahama Formation at the Southern End of the Boso Peninsula in Central Japan	Shigenori Ogihara	University of Tokyo, Japan
PB003	Remarkable Enhanced Photo-catalytic Activity of Chlorinated Titanium on the Two-Dimensional Silicate Surface as a Reaction Space for Hydrocarbon Oxidation	Nao Tsunoji, Hidechika Nishida, Masahiro Sadakane, Tsuneji Sano	Hiroshima University, Japan
PB004	Topotactic Conversion of Layered Silicate RUB-15 to Sodalite through Interlayer Condensation	Masakazu Koike, Yusuke Asakura, Yoshiyuki Kuroda, Hiroaki Wada, Atsushi Shimojima, Kazuyuki Kuroda	Waseda University, Japan, Tohoku University, Japan, Yokohama National University, Japan
PB005	Structure solutions of Metal-Interlayer Expanded RUB-36	Isabel Großkreuz, Hermann Gies, Sandra Grabowski, Ute Kolb, Haishuang Zhao	Ruhr University Bochum, Germany, Johannes Gutenberg University, Germany
PB006	A Facile Route to Encapsulate Ultrasmall Ni Clusters within the Pore Channels of AIPO-5	Chao Wang, Lei Liu, Jinxiang Dong	Taiyuan University of Technology, China
PB007	Photocatalytic CO ₂ Reduction of Rhenium Complex Immobilized on Periodic Mesoporous Organosilica	Minoru Waki, Ken-ichi Yamanaka, Soichi Shirai, Yoshifumi Maegawa, Shinji Inagaki	Toyota Central R&D Labs., Inc., Japan
PB008	Solid State Chemical Blowing of MOF Foams towards Remarkable Oxygen Electrocatalyst	Yu Wang, Runwei Wang, Zongtao Zhang, Shilun Qiu	Jilin University, China
PB009	Aerosol-Assisted Synthesis of High-Surface-Area Mesoporous Alumina Powders	Hirokazu Maruoka, Atsuko Tomita, Tatsuo Kimura	AIST-Chubu, Japan
PB010	A New Approach to Hierarchical Zeolite ZSM-11 by Steam Assisted Crystallization	Johannes Schaumloeffel, Christian Wilhelm, Stefan Ernst	Kaiserslautern University of Technology, Germany
PB011	Preparation of Gold Nanoparticle Crystals Interconnected with Carbon by Using Silica Colloidal Crystal Templates	Lulu Cheng, Eisuke Yamamoto, Seiya Mori, Yoshiyuki Kuroda, Atsushi Shimojima, Hiroaki Wada, Kazuyuki Kuroda	Waseda University, Japan, Yokohama National University, Japan
PB012	Space Molecular Decontamination: Shaped Zeolites as a Major Solution	G. Rioland, D. Faye, J. Patarin, T. J. Daou	University of Haute-Alsace, Institute of Materials Science of Mulhouse (IS2M), France, French Space Agency (CNES), France
PB013	Crystal Structures and Luminescent Properties of Ta,Cl,Tl-A and Ta,Cl,Cs,Na-A	Hyeon Seung Lim, Gi Beom Park, Nam Ho Heo, Karl Seff	Kyungpook National University, Korea, Univeristy of Hawaii, USA
PB014	Ultrastable Luminescent Metal-Organic Framework for Highly Sensitive and Selective Sensing of Cu ²⁺ , Al ³⁺ and Fe ³⁺ Ions in Water Systems	Jiyang Li, Chenghui Zhang, Zhiqiang Liang	Jilin University, China
PB015	Hollow Sphere Mesoporous Material Mixed 955 Silica Supported Metallocene Catalyst Used in Ethylene Polymerization	Yu Kang	SINOPEC, China
PB016	Degradation of Ag@ZSM-5 Zeolite in a Radioxenon Adsorption Process	Arnaud Monpezat, Gabriel Couchaux, Benoit Coasne, David Farrusseng, Sylvain Topin	CEA DAM/DIF Arpajon, France, LiPHY Grenoble, France, IRCELyon, France
PB017	Novel Water Adsorbent SAPO-AEI and Its Applicability to an Adsorption Heat Pump	Hisashi Shima, Takahiko Takewaki	Mitsubishi Chemical Corporation, Japan

PB018	Development of CCG-HPPO Process and Catalyst for Explosive Growth of Chinese Propylene Oxide Market	Zhiguang Wang, Jianqing Wang, Yue Shi, Jin Li, Bingchun Wang	China Catalyst Group, China
PB019	Control of Si/Al Ratio and Crystal Size of CHA Zeolite by Combining Dealuminated FAU Zeolite with Different Si/Al Ratio and Additional Si or Al Source	Takuya Tanigawa, Yoshitaka Yamasaki, Nao Tsunoji, Masahiro Sadakane, Tsuneji Sano	Hiroshima University, Japan
PB020	Facile Synthesis of Highly Crystalline EMT Zeolite by Hydrothermal Conversion of FAU Zeolite in the Presence of 1,1'-(1,4-butanediyl)bis(1-azonia-4-azabicyclo[2,2,2]octane)dihydroxide	Keigo Matsuda, Kazuyoshi Tsuchiya, Natsumi Funase, Nao Tsunoji, Masahiro Sadakane, Tsuneji Sano	Hiroshima University, Japan
PB021	Rational Synthesis of Small-pore Zeolite through Multi-Step Hydrogel Preparation; A Common Technical Tool for High-Quality Zeolite Synthesis	Daigo Shimono, Yoko Jyoichi, Nao Tsunoji, Masahiro Sadakane, Tsuneji Sano	Hiroshima University, Japan
PB022	Synthesis of Nano-sized Zeolite T by Directing Agent Method	Jing Liu, Jiayou Zhang, Tian Gui, Na Hu, Xiangshu Chen, Hidetoshi Kita	Jiangxi Normal University, China, Yamaguchi University, Japan
PB023	Mechanochemical Approach to the Synthesis of SSZ-13 Zeolite	Veronika Pashkova, Kinga Mlekodaj, Maria Lemishka, Petr Klein, Jiri Dedecek	J. Heyrovsky Institute of Physical Chemistry, Academy of Sciences of the Czech Republic, Czech Republic, University of Pardubice, Czech Republic
PB024	Synthesis of Titanium Silicalite-1 (TS-1) Zeolite with a High Titanium Content by a Dry Gel Conversion (DGC) Method	Christine Natalia Soekiman, Koji Miyake, Misaki Ota, Yuichiro Hirota, Yoshiaki Uchida, Norikazu Nishiyama	Osaka University, Japan
PB025	Magnetic Induction Assisted Heating Technique in Hydrothermal Zeolite Synthesis	Supak Tontisirin, Chantaraporn Phalakornkule, Worawat Sa-ngawong, and Supachai Sirisawat	King Mongkut's University of Technology North Bangkok, Thailand
PB026	Metal-catalyzed Carbonization of Acenaphthene in Ordered Mesoporous Silica MCM-48 Giving Ordered Mesoporous Carbon CMK-1	Yoko Hirano, Yuki Kondo, Naoto Kuroda, Yoshihiro Kubota, Satoshi Inagaki	Yokohama National University, Japan
PB027	Hierarchical Aluminophosphate Molecular Sieves with Intra-crystalline Mesopores Synthesized by Grinding Synthesis Method	Yuxiang Liu, Yuchao Lyu, Xinmei Liu, Svetlana Mintova, Zifeng Yan	China University of Petroleum, China, ENSICAEN, Université de Caen, France
PB028	Study of Zeolite Synthesis via Interzeolite Transformation from FAU Zeolite by the Continuous Feeding Crystallization Method	Yoko Yamaguchi, Hiroshi Yamazaki, Chizu Inaki, Shunji Tsuruta, Akira Nakashima	JGC Catalysts and Chemicals Ltd., Japan
PB029	Solid Synthesis of Ni-SAPO-11 Catalyst for Selective Isomerization of n-Hexane	Yuchao Lyu, Yuxiang Liu, Xinmei Liu	China University of Petroleum, China
PB030	Solvent-Free Synthesis of Zeolites from Anhydrous Starting Raw Solids	Qinming Wu, Xiangju Meng, Feng-shou Xiao	Zhejiang University, China
PB031	Size and Hydrothermal Stability of Chabazite-type Zeolite Prepared from Faujasite-type Zeolite	Ryosuke Kanauchi, Shoma Keira, Chihiro Matsumoto, Yasuhisa Hasegawa, Koichi Sato, Yoshimichi Kiyozumi, Osamu Sato, Aritomo Yamaguchi, Masayuki Shirai	Iwate University, Japan, AIST, Japan
PB032	Synthesis of Mesoporous Sn-β Zeolite without using Organic Structure Directing Agents	Jin-Gui Wang, Ji-Kang Yao, Kai-Rui Fu, Yi-Chen Wang	Qilu University of Technology, China
PB033	A Two-step Design of Hierarchical Mordenites	Zhengxing Qin, Leila Hafiz, Jean-Pierre Gilson, Philippe Boullay, Valerie Ruaux, Svetlana Mintova, Valentin Valtchev	China university of petroleum (East China), China, LCS, ENSICAEN – University of Caen – CNRS, France, CRISMAT, Normandie Univ, ENSICAEN, UNICAEN, CNRS, France

PB034	Coupling Dealumination and Desilication for the tailoring of Al-Rich MFI Zeolites	Shitu Yang, Chenxi Yu, Lili Yu, Shu Miao, Mingming Zou, Changzi Jin, Dazhi Zhang, Longya Xu, Shengjun Huang	Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China, University of Chinese Academy of Sciences, China
PB035	Assessment of the Embryotoxicity of Nanosized Zeolite Beta Towards Zebrafish <i>D. rerio</i>	Ana Palčić, Sanja Babić, Josip Bronić, Rozelindra Čož-Rakovac, Valentin Valtchev	Ruder Bošković Institute, Croatia, ENSICAEN, UNICAEN, CNRS, France
PB036	Probing Acidity of SAPO-34: Can the Nanoscale Distribution of Silicon Islands be Resolved in 3-D?	Joel E. Schmidt, Alessandra Lucini Paioni, Klaartje Houben, Linqing Peng, Marc Baldus, Jona-than D. Poplawsky, Bert M. Weckhuysen	Utrecht University, The Netherlands, Oak Ridge National Laboratory, USA
PB037	A Facile Approach to Synthesizing Pt/ZSM-5 Bifunctional Catalyst with Metal-Acid Intimacy	Hui Wang, Junjun Shan, John Matsubu, Fu-Kuo Chiang, Yizhi Xiang, Lisa Nguyen, Ji-hong Cheng	NICE America Research Inc, USA, NICE, Future Science & Technology City, China, Mississippi State University, USA
PB038	Advances of FTIR Spectroscopy in the Studies of Zeolites	Alexey A. Tsyganenko	St.Petersburg State University, Russia
PB039	Selective Removal of Radioactive Cesium from Liquid Radioactive Waste by Zeolites	Hu Sik Kim, Ha Young Lee, Dae Jun Moon, Hae-Kwon Jeong, Man Park, Dong-Yong Chung, Keun-Young Lee, Eil-Hee Lee, Gwan Ho Choi, Woo Taik Lim	Andong National of University, Korea, Texas A&M University, USA, Kyungpook National University, Korea, Korea Atomic Energy Research Institute, Korea
PB040	Realizing More Efficient Ethanol Synthesis From Dimethyl Ether and Syngas Over the Pyridine Modified Nano Mordenite Zeolite and CuZnAl Catalyst	Xiaobo Feng, Guohui Yang, Yoshiharu Yoneyama, Noritatsu Tsubaki	University of Toyama, Japan
PB041	Degradation of Chlorinated DNAPLs in Contaminated Groundwater by Using Polyethyleneimine-Modified Zero-Valent Iron Nanoparticles	Yi-Fan Lai, Kuen-Song Lin, Ndumiso Vukile Mdlovu, Chung-Yu Chen, and Chao-Lung Chiang	Yuan Ze University, Taiwan
PB042	Catalytic Activity of Cu(II)-Terpy Complexes Encapsulated in Cation-exchanged Zeolites for Oxidation of Thioanisole with Hydrogen Peroxide	Syuei Yamaguchi, Makoto Togawa, Syuya Kajimoto, Koichi Tanabe, Hidenori Yahiro	Ehime University, Japan
PB043	Sulfonic Acid Loaded Mesoporous MCM-48: A Potential Catalyst for Transesterification of Triacetin	Mahuya Bandyopadhyay, Nao Tsunoji, Rajib Bandyopadhyay, Tsuneji Sano	Institute of Infrastructure, Technology, Research and Management (IITRAM), India, Hiroshima University, Japan, Pandit Deendayal Petroleum University, India
PB044	Efficient Decomposition/Production of Formic Acid using PdAg Alloy Nanoparticles Supported Amine Functionalized Porous Materials	Shinya Masuda, Kohsuke Mori, Hiromi Yamashita	Osaka University, Japan, JST-PRESTO, Japan, Kyoto University, Japan
PB045	Application of an Amino-Functionalized Metal-Organic Framework for Photocatalytic Hydrogen Peroxide Production via Two-Electron Dioxide Reduction	Yusuke Isaka, Yoshifumi Kondo, Yasutaka Kuwahara, Kohsuke Mori, Hiromi Yamashita	Osaka University, Japan, Kyoto University, Japan, JST-PRESTO, Japan
PB046	Insights on Palladium Decorated Nitrogen-Containing Carbon Xerogels for the H ₂ Production	David Salinas-Torres, Miriam Navlani-García, Kohsuke Mori, Yasutaka Kuwahara, Nathalie Job, Hiromi Yamashita	Osaka University, Japan, Kyoto University, Japan, JST-PRESTO, Japan, University of Liège, Belgium

PB047	Catalytic Application of FER Nanocrystals in Methanol Dehydration to DME	Enrico Catizzone, Stijn van Daele, Massimo Migliori, Micaela Bianco, Alfredo Aloise, Valentin Valtchev, Girolamo Giordano	University of Calabria, Italy, ENSICAEN, Université de Caen Basse-Normandie, France
PB048	Jet-Fuel Synthesis through Oligomerization of Butene Mixture using Ferrierite Zeolite	Donggun Lee, Jihye Yang, Dahye Oh, Sojeong Lee, Choul-Ho Lee, Jong-Ki Jeon	Kongju National University, Korea
PB049	Zeolite-based PtFe catalyst for Propane Dehydrogenation	Ryosuke Ushiki, Hiroyoshi Hoshino, Masahiko Matsukata	Waseda University, Japan
PB050	Factors Hidden in Activation Enthalpy-Entropy Relationship of Zeolite-Catalyzed Reactions	Naonobu Katada, Koshiro Nakamura, Etsushi Tsuji, Satoshi Suganuma	Tottori University, Japan
PB051	Direct Inclusion of Phosphines into Zeolite Y and Beta and Their Application as Catalysts for Allylic Alkylation	Kazu Okumura, Keisuke Okazaki, Hajime Yamashita, Yuito Koga	Kogakuin University, Japan
PB052	Preparation of the Ultra-stable Y Zeolites with Controlled Acid Properties	Hiroshi Yamazaki, Yuichi Hamasaki, Shunji Tsuruta, Mitsunori Watabe Akira Nakashima	JGC Catalysts and Chemicals Ltd., Japan
PB053	Synthesis of Bifunctional Catalyst MFI/W-V-O and Its Application to Conversion of Glycerol into Acrylic Acid	Kotaro Taruya, Yuya Torii, Takuya Hisazumi, Satoshi Suganuma, Etsushi Tsuji, Naonobu Katada	Tottori University, Japan
PB054	Oxidation of Phenol with Hydrogen Peroxide over *BEA-type Titanosilicate	Mei Takeyama, Yuya Ikehara, Satoshi Inagaki, Yoshihiro Kubota	Yokohama National University, Japan
PB055	Synthesis and Characterization of Ti-MWW with Different Ti Atom Distributions	Xinyi Ji, Junko N. Kondo, Toshiyuki Yokoi	Tokyo Institute of Technology, Japan
PB056	Control of Crystal Size of ZSM-5 with Unique Al atoms Distribution	Turgen Biliget, Yong Wang, Sungsik Park, Junko N. Kondo, Toshiyuki Yokoi	Tokyo Institute of Technology, Japan, JST-PRESTO, Japan
PB057	Impact of Starting Materials on Al Distribution and Catalytic Properties of the CHA type Aluminosilicate Zeolite	Toshiki Nishitoba, Sungsik Park, Junko N. Kondo, Toshiyuki Yokoi	Tokyo Institute of Technology, Japan, JST-PRESTO, Japan
PB058	Reaction Mechanism for Conversion of Methanol to Olefins	Junfen Li, Zhihong Wei, Yanyan Chen, Sen Wang, Hong Ma, Mei Dong, Zhangfeng Qin, Jianguo Wang, Weibin Fan	Institute of Coal Chemistry, Chinese Academy of Sciences, China
PB059	Improving the Catalytic Activity of Prussian Blue Analogues (PBAs) in Organic Reactions: Overcoming their Microporous Nature	Carlos Marquez, Francisco G. Cirujano, Dirk De Vos, Trees De Baerdemaeker	KU Leuven, Belgium
PB060	De novo Synthesis of Pt-embedded MIL-53(Al)-NH ₂ at Room Temperature and Derived Pt/Al ₂ O ₃ Porous Composites for Furfural to 1,5-Pentanediol Reaction	Kevin C.-W. Wu, Jyun-yi Yeh	National Taiwan University, Taiwan
PB061	One-pot Synthesized Fe-containing MWW zeolite for Hydroxylation of Benzene to Phenol with H ₂ O ₂	Peipei Xiao, Yong Wang, Junko N. Kondo, Toshiyuki Yokoi	Tokyo Institute of Technology, Japan, JST-PRESTO, Japan
PB063	Integration of Catalytic and Thermal Cracking for the Production of Light Olefins from Light Naphtha	Khalid Al-Majnoui, Nabil Al-Yassir, Ahmed Al-Zenaidi, Wojciech Supronowicz	Saudi Basic Industries Corporation (SABIC), Saudi Arabia
PB064	Cu-impregnated Mesoporous ZSM-5 for Cold-start Hydrocarbon Trap	Eunhee Jang, Jungkyu Choi	Korea University, Korea
PB065	Ethylenediamine-Grafted Y Zeolite as a Highly Regenerable CO ₂ Adsorbent for Temperature Swing Process	Chaehoon Kim, Minkee Choi	Korea Advanced Institute of Science and Technology (KAIST), Korea

PB066	Silica Nanoparticle Mass Transfer Fins for MFI Composite Materials	Xiaoduo Qi, Vivek Vattipalli, Paul J. Dauenhauer, Wei Fan	University of Massachusetts Amherst, USA, University of Minnesota, USA
PB067	Anomalous Isothermic Heat of CO ₂ Adsorption in SAPO-42 Materials	Eduardo Pérez Botella, Raquel Martínez-Franco, Miguel Palomino, Manuel Moliner, Susana Valencia, Fernando Rey	UPV-CSIC, Spain
PB068	Study on the Decomposition of Cu-BTC Metal-Organic Framework (HKUST-1) by the Steam	Jin Zhang, Masashi Morita, Hidenobu Wakita, Tomohiro Kuroha, Yoichiro Tsuji	Panasonic Corporation, Japan
PB069	Kinetic Mechanism of Gas Adsorption on Ordered Mesoporous Silica SBA-15 by a Novel Method for Direct Measurement of Gas Adsorption Rate	Hirimitsu Ito, Keisuke Asakura, Tomohiro Ogino, Taku Iiyama, Akihiko Matsumoto	Toyohashi University of Technology, Japan, Shinshu University, Japan
PB070	Porous Activated Carbon for Reversible Storage of CH ₄ and CO ₂ as Gas Hydrates	Fernando Rey, José L. Jordá, Mirian E. Casco, María Mellado, François Fauth, Manuel Martínez-Escandell, Francisco Rodríguez-Reinoso, Enrique V. Ramos-Fernández, Joaquín Silvestre-Albero	Instituto de Tecnología Química (UPV-CSIC), Universitat Politècnica de València-CSIC, Spain, Universidad de Alicante, Spain, Universidad San Pablo CEU, Spain, ALBA Light Source, Spain
PB071	Silver Zeolite A Modified Polypropylene Films for Food Applications	Duangkamon Jiraroj, Sukkanaste Tungasmita, Duangamol Tungasmita	Chulalongkorn University, Thailand
PB072	Effects of Seed Crystals on Single Gas Permeances of High-silica SSZ-13 Zeolite Membranes	He-Li Wang, Mei-Hua Zhu, Li Liang, Xiang-Shu Chen	Jiangxi Normal University, China, Jiangxi Academy of Sciences, China
PB073	Membrane Shape MFI adsorbent Prepared by a Dry Gel Conversion Method	Teruhisa Hattori, Kazuki Kamata, Mikihiro Nomura, Shotaro Tanaka, Yo Matsuo, Toyomitsu Itai, Shinsuke Kasa	Shibaura Institute of Technology University, Japan, Takagi Co., Ltd, Japan
PB074	Water Permeation through Ion-exchanged MOR Membranes	Takuya Asou, Yuki Yoshida, Satoshi Oasada, Nayumi Makita, Ayumi Ikeda, Mikihiro Nomura	Shibaura Institute of technology, Japan
PB075	Fabrication of High-performance Silicalite-1 Membrane by a Novel Seeding Method using Zeolite-dispersed Polymer Film	Kyohei Ueno, Yui Horiguchi, Hideyuki Negishi, Takuya Okuno, Hiromasa Tawarayama, Shinji Ishikawa, Manabu Miyamoto, Sigeyuki Uemiya, Akiyoshi Takeno, Yasunori Oumi	Gifu University, Japan, AIST, Japan, Sumitomo Electric Industries, Ltd., Japan
PB076	Gas Permeation Control through MOR Membranes	Yuki Yoshida, Satoshi Osada, Nayumi Makita, Takuya Asou, Ayumi Ikeda, Mikihiro Nomura	Shibaura Institute of Technology, Japan
PB077	The studies on Preparation of Mesoporous MCM-48 Membrane and Its Gas Permeation Performance	Lu Jinming, Li Guijie, Liu Yi, Yang Jianhua, Zhang Yan, Wang Jinqi	Dalian University of Technology, China
PB078	Preparation of Micro-porous Carbon Membranes from Lignin-based Materials	Izumi Kumakiri, Kyosuke Tamura, Yukichi Sasaki, Kazuhiro Tanaka, Hidetoshi Kita	Yamaguchi University, Japan, Japan Fine Ceramics Center (JFCC), Japan

RRR Poster Session

August 6, Monday
RRR Poster I

RA001	Metal Coated Hollow Zeolites	Mohammed Alharbi, Abdulrahman Alhazmi, Ugo Ravon, Khalid Albahily	SABIC Corporate Research, KAUST, Saudi Arabia
RA002	Direct Ethanol Synthesis from DME and Syngas over H-Ferrierite/CuZnAl Dual Bed Catalyst	Xinhua Gao, Jianli Zhang, Qingxiang Ma, Subing Fan, Guohui Yang, Yoshiharu Yoneyama, Tian-Sheng Zhao, Noritatsu Tsubaki	Ningxia University, China, University of Toyama, Japan
RA003	Influence of Synthesis Ingredients on Physicochemical Properties of AEI-type Zeolite	Yusuke Kunitake, Junko N Kondo, Toshiyuki Yokoi	Tokyo Institute of Technology, JST-PRESTO, Japan
RA004	Heat Treatment Influence on the Acid Properties of the Microporous Niobium Silicate AM-11	Raquel Simancas, Satoshi Ishikawa, Wataru Ueda	Kanagawa University, Japan
RA005	Mesoporous TiO ₂ -SiO ₂ Composites for Green Building Applications	Michela Signoretto, Elena Ghedini, Federica Menegazzo, Maela Manzoli, Alessandro Di Michele	Ca' Foscari University Venice and Consortium INSTM, University of Turin, Italy
RA006	Vacancy Ordering in Prussian Blue Analogues?	A. Simonov, T. De Baerdemaeker, M. L. Rios Gomez, H. L. B. Boström, C. S. Coates, H. J. Gray, H.-B. Bürgi, A. L. Goowdwin	University of Oxford, UK, KU Leuven, Belgium, Universidad Nacional Autónoma de México, Mexico, University of Zurich, Switzerland
RA007	Synthesis of Ordered Mesoporous Carbons by Solvent-free Soft-templating Method and their Application to EDLC	Nao Yoshida, Yuichiro Hirota, Yoshiaki Uchida, Toshihiro Asada, Naoya Kobayashi, Norikazu Nishiyama	Osaka University, TOC Capacitor Co., Ltd., Japan
RA008	Scalable Synthesis of High Purities Ammonium Dinitramide and its Decomposition Characteristics	Hoi-Gu Jang, Min Jung Sul, Jung Seob Shim, Young Chul Park, Sung June Cho	Chonnam National University, Hanwha Corporation, Agency for Defense Development, Korea
RA009	Improving Hydrothermal Stability of MFI type Aluminoalicate Zeolite (ZSM-5) by Epitaxial Overgrowth of MFI type All Silica Zeolite (Silicalite-1) Shell Layer	Reina Inoue, Koji Miyake, Masahiro Nakai, Hasna Al-Jabri, Yuichiro Hirota, Yoshiaki Uchida, Shunsuke Tanaka, Manabu Miyamoto, Norikazu Nishiyama	Osaka University, Kansai University, Gifu University, Japan
RA010	Prediction of Adsorption Properties on All-silica Zeolites by Grand Canonical Monte Carlo Simulation Dealing with SiO ₄ Tetrahedron as Pseudo Atom	Yasuhisa Hasegawa, Chie Abe, Koichi Sato	AIST, Japan
RA011	Solvent/OSDA-Free Transformation of FAU into CHA Zeolite	Sana Miyagawa, Shunsuke Tanaka	Kansai University, Japan
RA012	Insertion of Mo Species in the Framework of BEA	Soshi Kasuya, Yosuke Kazama, Masahiko Matsukata	Waseda University, Japan
RA013	Synthesis and Characterization of Imidazolium Based Ionic Liquids	Hoi-Gu Jang, Sung Jun Park, Ki-Hoon Park, Eun Mee Goh, Seung Wook Beak, Sung June Cho	Chonnam National University, Agency for Defense Development, KAIST, Korea
RA014	Formation of Crystalline Silicate Nanoscrolls from Layered Silicate Magadiite	Takeru Hirohashi, Megumi Sugihara, Masakazu Koike, Yusuke Asakura, Yoshiyuki Kuroda, Atsushi Shimojima, Hiroaki Wada, Kazuyuki Kuroda	Waseda University, Tohoku University, Yokohama National University, Japan
RA015	Formation and Local Structure of Framework Al Lewis Sites in *BEA Zeolites	Libor Kobera, Jiří Dědeček, Veronika Pashkova, Petr Klein, Edyta Tabor, Martina Urbanová, Jiří Brus, Anna V. Fishchuk, Stepan Sklenak	The Czech Academy of Sciences, Czech Republic
RA016	Crystallinity of Mesoporous Quartz Derived from Silica Nanoparticle Assemblies	Takamichi Nakaya, Yoshiyuki Kuroda, Atsushi Shimojima, Hiroaki Wada, Kazuyuki Kuroda	Waseda University, Yokohama National University, Japan

RA017	Crystallization of Germanosilicate ECNU-16 with A Novel Topology Provides Insights into the Space-Filling Effect on Zeolite Crystal Symmetry	Le Xu, Lin Zhang, Jian Li, Koki Muraoka, Fei Peng, Hao Xu, Cong Lin, Zihao Gao, Jin-Gang Jiang, Watcharop Chaikittisilp, Junliang Sun, Toru Wakihara, Tatsuya Okubo, Peng Wu	East China Normal University, China, Peking University, China, The University of Tokyo, Japan, Stockholm University, Sweden
RA018	Nitridation of Mesoporous Silica SBA-15 and Its Catalytic Application on Chalcone and Flavanone Synthesis	Yuuki Koga, Takahiko Moteki, Masaru Ogura	The University of Tokyo, Japan
RA019	Synthesis of Hierarchical MCM-22 Layered Zeolite for Selective Dehydration of Glycerol	Riddhi Thakkar, Rajib Bandyopadhyay	Pandit Deendayal Petroleum University, India
RA020	Efficient Seed-Directed Synthesis of Zincoaluminosilicate MSE-type Zeolites Using a Simple Organic Structure-Directing Agent	Sibel Sogukkanli, Kenta Iyoki, Shanmugam P. Elangovan, Keiji Itabashi, Yoshihiro Kubota, Masaru Ogura, Tatsuya Okubo	The University of Tokyo, Yokohama National University, Japan
RA021	Fundamental Study of Methanol-to-Olefins Reaction Mechanism	Kai Hidaka, Takahiko Moteki, Masaru Ogura	The University of Tokyo, Japan
RA022	Development of a Novel Measurement Method of N ₂ Desorption from Zeolite	Genki Kobayashi, Motomu Sakai, Masahiko Matsukata	Waseda University, Japan
RA023	Recent Developments in Ultrafast and Continuous Flow Synthesis of Zeolites	Zhendong Liu, Jie Zhu, Toru Wakihara, Tatsuya Okubo	The University of Tokyo, Japan
RA024	FAU and LTA Fly Ash Derived Zeolites as Potential Sorbents of Toxic Hg ⁰ from Gas Stream	Piotr Kunecki, Dorota Czarna-Juszkiewicz, Rafal Panek, Magdalena Wdowin	Lublin University of Technology, Polish Academy of Sciences, Poland
RA025	Comparative Study of Aluminosilicate Glass and Zeolite Precursors in Terms of Na Environment and Network Structure	Hiroki Yamada, Sohei Sukenaga, Koji Ohara, Chokkalingam Anand, Mariko Ando, Hiroyuki Shibata, Tatsuya Okubo, Toru Wakihara	The University of Tokyo, JASRI/SPRING-8, Tohoku University, Japan
RA026	Hierarchically Meso- and Microporous Carbon Supporting Palladium Nanoparticles as a Hydrodeoxygenation Catalyst for Bio-Jet Fuel Production	Kyoungsoo Kim, Jinju Han, Eunsang Kim, Tae-Wan Kim	Chonbuk National University, Korea Research Institute of Chemical Technology, Korea
RA027	Multicomponent Adsorption, Desorption and Oxidation of Hydrocarbons on *BEA	Haruka Sagiike, Gota Suzuki, Masahiko Matsukata	Waseda University, Japan
RA028	Oxidation Behavior of n-C16 over Zeolite and Alumina	Kento Fujibayashi, Ryosuke Ushiki, and Masahiko Matsukata	Waseda University, Japan
RA029	Effect of Trimethylsilylation of Ti-MCM-41 Catalyst on the Oxidation of Cyclohexene	Miho Iwai, Makiko Nakagawa, Satoshi Inagaki, Yoshihiro Kubota	Yokohama National University, Japan
RA030	Methanol-to-olefins Reaction over Ga-containing CON-type Material	Gakuji Sato, Sungsik Park, Junko N. Kondo, Toshiyuki Yokoi	Tokyo Institute of Technology, JST-PRESTO, Japan

August 8, Wednesday
RRR Poster II

RB001	Composite Formation of Zeolite Having Heterologous Active Species and Evaluation of Methane Conversion Reaction Characteristics	Keita Sago, Yusuke Kunitake, Junko N. Kondo, Toshiyuki Yokoi	Tokyo Institute of Technology, JST-PRESTO, Japan
RB002	Synthesis PIM-1 Supported MOF Membrane for Gas separation	Teng Ben, Shilun Qiu	Jilin University, China
RB003	Study on the Decomposition of Cu-BTC Metal-Organic Framework (HKUST-1) by the Steam	Jin Zhang, Masashi Morita, Hidenobu Wakita, Tomohiro Kuroha, Yoichiro Tsuji	Panasonic Corporation, Japan
RB004	MOF-derived CuO Clusters in Large Pore Zeolites for C-C Bond Formation: A New Catalyst Strategy toward Substituted Indoles and Propargylamines	Nuria Martín, Dirk E. De Vos, Michiel Dusselier, Francisco G. Cirujano	KU Leuven, Belgium
RB005	The Product Selectivity and Coking over Hierarchical ZSM-5 in MTP Reaction	Subing Fan, Junmin Lv, Yongqiang Cai, Qixin Wang, Dan Wang, Tiansheng Zhao	Ningxia University, China
RB006	Facile Synthesis of Ultra-Large Pore Mesoporous Silica Nanospheres and Their Applications	Seong Huh, Ki-Jung Kim	Hankuk University of Foreign Studies, Korea
RB007	Anomalous Electronic Properties of One-Dimensionally Arrayed Anthracene Molecules Induced by the Interaction with the Brønsted Acids in a SAPO-5 Single Crystal	Tetsuya Kodaira, Shun-ichi Inoue, Kazuhiro Kiriwara, Tomohiro Sekikawa, Kohya Hiraide, Takao Sekiya	AIST, Yokohama National University, Japan
RB008	Highly Enantioselective Friedel-Crafts Alkylation of N,N-Dialkylanilines with <i>trans</i> - β Nitrostyrene Catalyzed by Homochiral Metal-Organic Framework	Kenji Sakuragi, Hiroto Ozaki, Yoshiki Takada, Koichi Tanaka	Kansai University, Japan
RB009	Synthesis of Large scale Silicalite-1 Membrane and its Evaluation by Permporometry	Masaya Itakura, Satoshi Imasaka, Koji Kida, Daisuke Gondoh, Masashi Okada	Hitachi Zosen Corp., Japan
RB010	Sandwich Membranes through a Two-dimensional Confinement Strategy for Gas Separation	Zixi Kang, Sasa Wang ¹ , Lili Fan, Daofeng Sun	China University of Petroleum (East China), China
RB011	Synthesis of Crystalline Organic-Inorganic Hybrid Silicates from Terminal Organosilanes	Katsutoshi Yamamoto, Takuji Ikeda, Yusuke Tsukamoto, Takuma Nakaoka	The University of Kitakyushu, AIST, Japan
RB012	Silicoaluminophosphate (SAPO)-templated Activated Carbons	Yunxiang Li, Xia Wang, Thomas Thersleff, Gunnar Svensson, Niklas Hedin	Stockholm University, Sweden
RB013	Enhanced NH ₃ -SCR Performance over Copper-exchanged SUZ-4 Zeolite	Astri Andarini Budiawati, Masahiko Matsukata	Waseda University, Japan
RB014	Effect of Gel Composition for the HF-free Synthesis of AlPO ₄ -34	Hiromasa Fukuda, Masahiro Seshimo, Motomu Sakai, Masahiko Matsukata	Waseda University, RITE, Japan
RB015	Reactions of Tetralin on Aluminosilicate-based Solid Acid Catalysts	Kazuki Nakajima, Satoshi Suganuma, Etsushi Tsuji, Naonobu Katada	Tottori University, Japan
RB016	Position of Co Species in MFI Zeolite Active for Catalytic Methylation of Benzene with Methane	Kana Yamamoto, Kazu Okumura, Hitoshi Matsubara, Koshiro Nakamura, Etsushi Tsuji, Satoshi Suganuma, Naonobu Katada	Tottori University, Kogakuin University, Japan
RB017	Catalytic Properties for NO Direct Decomposition on Cu-Beta-Zeolite with Low Sili-con/Aluminum Ratio	Yusuke Ohata, Takahiko Moteki, Masaru Ogura	The University of Tokyo, Kyoto University, Japan
RB018	Host-guest Interactions and Ferroelastic Behavior in ZSM-5 Zeolite	Matteo Ardit, Giada Beltrami, Annalisa Martucci, Luisa Pasti, Elisa Rodeghero, Giuseppe Cruciani	University of Ferrara, Italy
RB019	Proton Conductivity on Zeolite in Water	Tsukasa Takahashi, Koichiro Hojo, Takamasa Haji, Yuki Terayama, Hiroshige Matsumoto, Shigeo Satokawa	Seikei University, Kyushu University, Japan

RB020	Photocatalytic Hydrogen Peroxide Generation by Oxygen Saturated Aqueous Suspension of Pt(II) Complex Adsorbed Organosulfonic-Functionalized Mesoporous Silica	Minoru Sohmiya, Haruna Koba, Kanji Saito, Kazumasa Oshima, Shigeo Satokawa	Seikei University, Waseda University, Akita University, Japan
RB021	Permeation Behavior of Olefin-paraffin through Ag ⁺ -FAU Membrane	Naoyuki Fujimaki, Motomu Sakai, Masahiko Matsukata	Waseda University, Japan
RB022	Control of Al Distribution in Zeolite Frameworks: An Energetic View	Koki Muraoka, Watcharop Chaikittisilp, Tatsuya Okubo	The University of Tokyo, Japan
RB023	Synthesis of SAPO-18 Having Silica-rich Domain in the Vicinity of Crystal Surface and their Acid Resistance	Kei Motokura, Masahiro Seshimo, Masahiko Matsukata	Waseda University, RITE, Japan
RB024	Separation Properties for Mixed Light Gas through AlPO ₄ -18 Membrane	Motomu Sakai, Yuki Nonaka, Kei Yoshihara, Masahiko Matsukata	Waseda University, Japan
RB025	Ultrafast Synthesis of *BEA Zeolite without the Aid of Aging Pretreatment	Jie Zhu, Zhendong Liu, Sohei Sukenaga, Mariko Ando, Hiroyuki Shibata, Tatsuya Okubo, Toru Wakihara	The University of Tokyo, Tohoku University, Japan
RB026	Development of the Xylene Isomerization Membrane Reactor using Silicalite-1 Membrane	Syuta Fujimaki, Motomu Sakai, Masahiko Matsukata	Waseda University, Japan
RB027	Alkali-Treatment of Zeolite Beta	Shinya Saeki, Masahiko Matsukata	Waseda University, Japan
RB028	Synthesis of GME-type Aluminosilicate Zeolite and Catalytic Performance in Methanol-to-Olefins reaction	Takuya Nozaki, Toshiki Nishitoba, Yong Wang, Sungsik Park, Junko N. Kondo, Toshiyuki Yokoi	Tokyo Institute of Technology, PRESTO-JST, Japan
RB029	Catalytic Behavior of using PtFe/zeolites for Propane Dehydrogenation	Ryosuke Ushiki, Hiroyoshi Hoshino, Masahiko Matsukata	Waseda University, Japan
RB030	The Control of Acidic Property on AEI-type Zeolite and its Catalytic Activity to MTO Reaction	Yusuke Kunitake, Junko N Kondo, Toshiyuki Yokoi	Tokyo Institute of Technology, PRESTO-JST, Japan
RB031	Comparison of Acidic Properties of CON-type Metallosilicates	Gakuji Sato, Sungsik Park, Junko N. Kondo, Toshiyuki Yokoi	Tokyo Institute of Technology, JST-PRESTO, Japan