

RRR Poster presentation

July 22, Monday

RRR Poster I

RRR1-01	Promoting CO ₂ Electroreduction to Acetate by an Amine-Terminal, Dendrimer-Functionalized Cu Catalyst	*LIJUAN ZHANG ¹	(1. Fudan University)
RRR1-02	Gel transformation as a general strategy for fabrication of highly porous multiscale MOF architectures via 3D direct ink writing	*King Lun Yeung ¹ , Zhang Liu ¹	(1. The Hong Kong University of Science and Technology)
RRR1-03	Effects of Different Silicon Sources on Physicochemical and Catalytic Properties of Beta Zeolites	Xue-Juan Chen ¹ , *Bing Zhan ¹ , Xiu-Feng Hou ¹	(1. Fudan University)
RRR1-04	Hydrophobicity Manipulation of Titanium-silicalite-1 with Enhanced Catalytic Performance via Liquid-mediated Defect-healing Treatment	*Boqing LI ¹ , Kenta Iyoki ¹ , Piyapatch Techasarintr ² , Shanmugam Elangovan ¹ , Raquel Simancas ¹ , Tatsuya Okubo ¹ , Toshiyuki Yokoi ² , Toru Wakihara ¹	(1. The University of Tokyo, 2. Tokyo Institute of Technology)
RRR1-05	Bacteriostatic Effect of Heat-Treated Metal-Containing Zeolites on Bacteria and Fungi	Vladimer Tsitsishvili ^{1,2} , Nato Mirdzveli ² , *Manabu Miyamoto ³ , Orlin Gemishev ⁴ , Nanuli Dolaberidze ² , Manana Nijaradze ² , Zurab Amiridze ² , Bela Khutsishvili ²	(1. Georgian National Academy of Sciences, 2. I. Javakhishvili Tbilisi State University, 3. Gifu University, 4. Sofia University St. Kliment Ohridski)
RRR1-06	Nickel Silicate CHA-Type Zeolites Prepared by Interzeolite Transformation and Their Catalytic Activity in Dry Reforming of Methane	*Trinh Thuan Khiat Nguyen ¹ , Siyeon Lee ¹ , Sungjoon Kweon ¹ , Bum Min Park ¹	(1. Incheon National University)
RRR1-07	Gaseous Organic Chloride Adsorption over the Various Framework Atom Substituted MWW-Type Zeolitic Adsorbents	*Linh Mai Tran ¹ , Yunhye Cho ¹ , Sungjoon Kweon ¹ , Min Bum Park ¹	(1. Incheon National University)
RRR1-08	Precise Control of Framework Composition in Beta-Type Titanoaluminosilicates Synthesized via the Interzeolite Transformation	*Junseong Park ¹ , Sungjoon Kweon ¹ , Min Bum Park ¹	(1. Incheon National University)
RRR1-09	Development of ordered amorphous silica-alumina with enhanced acidity and textural properties	*Batool Altaher ¹ , Lianhui Ding ¹ , Faisal Alotaibi ¹ , Mohammad Bahhar ¹ , Faisal Mulla ¹	(1. Saudi Aramco)
RRR1-10	Catalytic Upcycling of Polyethylene to Fuels over a Nanosized Beta Zeolite under Mild Conditions	*QING LIU ¹ , Zhendong LIU ¹	(1. Tsinghua University)
RRR1-11	Large Language model assistant for designing organic structure-directing agents for zeolites	*Shusuke Ito ¹ , Koki Muraoka ¹ , Akira Nakayama ¹	(1. The University of Tokyo)

RRR1-12			
RRR1-13	Mesoporous nanocrystalline Zeolite Y Synthesis by Bottom-up Approach	*Hana Hashim Habboubi ¹ , Ding Lianhui ¹ , Faisal AlOtaibi ¹	(1. Research & Development Center)
RRR1-14	Topologically Equivalent Zeolite Frameworks Identified from Hamiltonian Graphs	*Craig AJ Fisher ¹ , Toru Wakihara ² , Yukichi Sasaki ¹	(1. Japan Fine Ceramics Center, 2. The University of Tokyo)
RRR1-15	Synthesis of Self-Pillared Zeolite Microspheres with a Hierarchical Micro-Meso-Macroporous Structure	*Zhaoning Song ¹ , Zhendong Liu ¹	(1. Tsinghua University)
RRR1-16	Research on the Sintering Resistance of Noble Metal Clusters Encapsulated by Molecular Sieve	*Mingyuan Shao ¹ , Zhendong Liu ¹	(1. Tsinghua University)
RRR1-17	Physically-Mixed MOF-74-Derived Bi-Functional Catalysts for CO ₂ Hydrogenation	*Mone Yamazaki ¹ , Shunsaku Yasumura ¹ , Masaru Ogura ¹	(1. The University of Tokyo)
RRR1-18	Adsorptive Removal of Perfluoroalkyl Substances in Aqueous Solution using aminofunctionalized MOF	*Koya Ishizawa ¹ , Hiroki Konno ¹	(1. Toho University)
RRR1-19	Adsorptive Removal of Perfluoroalkyl Substances in Aqueous Solution using Porous Magnesium Oxide with High Surface Area	*Taiyo Nabata ¹ , Hiroki Konno ¹	(1. Toho University)
RRR1-20	PET-derived bis(2-hydroxyethyl) terephthalate as a new linker source for rapid solvent-free MOF synthesis	*Philip Anggo Krisbiantoro ^{1,2,3} , Kevin C.-W. Wu ^{1,2,3}	(1. Molecular Science and Technology Program, Taiwan International Graduate Program, Academia Sinica, 2. International Graduate Program of Molecular Science and Technology, National Taiwan University, 3. Department of Chemical Engineering, National Taiwan University)

July 24, Wednesday RRR Poster II

RRR2-01	Data-Driven Investigation of Diffusion Behaviors in Small-Pore Zeolites	*Jing Ping ^{1,2} , Koki Muraoka ¹ , Zhendong Liu ² , Akira Nakayama ¹	(1. The University of Tokyo, 2. Tsinghua University)
RRR2-02	Selective Adsorption of 2-Propanol under Humid Environment into Zeolite Pores	*Kazuhiro Onuki ¹ , Keigo Tashiro ¹ , Shigeo Satokawa ¹	(1. Seikei Univ.)
RRR2-03	DFT Simulation of Nitrogen Adsorption on Li-exchanged LSX for Air Separation	Kyung-Su Shin ¹ , Bum-su Park ¹ , Hyunchang Shin ² , Sangkyun Kang ² , *Sung-June Cho ¹	(1. Chonnam National University, 2. Hanchang Ind. Co, Ltd.)
RRR2-04	Enhanced Dispersion of Platinum Nanoparticles within Siliceous MFI Zeolite	*Gwang-Jin Na ¹ , Hongjun Park ² , Ryong Ryoo ^{1,2}	(1. Korea Institute of Energy Technology, 2. Institute for Basic

	due to Ammonia Treatment		Science)
RRR2-05	Proton Conductivity in Water over Synthesized Nano-sized Beta	*Haruka Ukita ¹ , Keigo Tashiro ¹ , Shigeo Satokawa ¹	(1. Seikei University)
RRR2-06	Determining Ti site in Zeolites Using High-resolution X-ray Absorption Spectroscopy	*Hiroki Yamada ^{1,2} , Boqing Li ³ , Tatsushi Yoshioka ³ , Kengo Nakada ¹ , Yuki Sada ¹ , Koji Ohara ^{2,1} , Masakuni Takahashi ⁴ , Kotaro Higashi ¹ , Seiya Shimono ¹ , Toshiaki Ina ¹ , Naomi Kawamura ¹ , Toru Wakihara ^{3,5}	(1. Japan Synchrotron Radiation Research Institute, 2. Shimane University, 3. Department of Chemical System Engineering, The University of Tokyo, 4. Okayama University, 5. Institute of Engineering Innovation, School of Engineering, The University of Tokyo)
RRR2-07	Synthesis of Two-dimensional AEI Zeolite	*Zinxin Xiao ¹ , Zhendong Liu ¹	(1. Tsinghua University)
RRR2-08	High-throughput computational investigation of zeolite intergrowths	*Kota Oishi ¹ , Koki Muraoka ¹ , Akira Nakayama ¹	(1. The University of Tokyo)
RRR2-09	Mechanistic Study of Glucose Conversion over Post-modified Zeolites	*YIN LIU ¹ , Yong Wang ¹ , Toshiyuki Yokoi ¹	(1. Tokyo Technology of Institute)
RRR2-10	Stabilization of molecular TiO ₄ species on the pore surface of mesoporous silica for photocatalytic H ₂ evolution	*Hikaru Inada ¹ , Masashi Morita ¹ , Kazuyuki Maeda ¹	(1. Tokyo University of Agriculture and Technology)
RRR2-11	Different impacts of methanol on the crystallization process in Silicalite-1 and ZSM-5 zeolites	*Qi Li ¹ , Liang Zhao ¹ , Peipei Xiao ¹ , Yong Wang ¹ , Toshiyuki Yokoi ¹	(1. Tokyo Institute of Technology)
RRR2-12	Plastics-to-Single-walled Carbon Nanotube (SWCNT) Conversion through Sequential zeolite and Layered Double Hydroxide (LDH)-Derived Mixed Metal Oxide	*Yu-Chia Chang ¹ , Abhay Raju ² , Kevin C.-W. Wu ¹	(1. National Taiwan University, 2. Mahatma Gandhi University)
RRR2-13	Effect of hydrophobic character of diammonium-capping agents for the synthesis of nanocrystalline MOR zeolites	*Gayoung Lee ¹ , Jongyeon Lim ¹ , Changbum Jo ¹	(1. Inha University)
RRR2-14	Polyethylene hydrogenolysis over Ru supported on mesoporous MFI zeolite: Effects of mesoporosity and external acid sites	*Wonnok Hong ¹ , Jinge Ahn ¹ , Changbum Jo ¹	(1. Inha university)
RRR2-15	Crystal size and morphology control of SAPO-40 zeolite	*Jie Du ¹ , Yin Liu ¹ , Yong Wang ¹ , Peipei Xiao ¹ , Toshiyuki Yokoi ¹	(1. Tokyo Institute of Technology)
RRR2-16	Crystallization behavior of EMC-2 zeolite along with the	Kotori Matsuo ¹ , Issei Yoshioka ¹ , Chang Yi	(1. Shizuoka University)

	long induction period	Kong1, *Takahiko Moteki1	
RRR2-17	Enhancing Water Gas Shift Reaction: Preventing Reverse Reactions with Cu/ZnO Nanocatalysts on MFI Zeolite	Salma Liska1, Rawiyah Khairunida' Shalihah1, Gita Nur Sajida1, Elvi Restiawaty1, Hary Devianto1, Manabu Miyamoto, Norikazu Nishiyama, *Yogi Wibisono Budhi1	(1. Institut Teknologi Bandung)
RRR2-18	Self-assembled structures and properties of short peptides with catalytic functions	*Hao Dong1	(1. Nanjing University)
RRR2-19			
RRR2-20	PolyMOF Interlayers Modulated Interfacial Polymerization of Ultra-thin Nanofiltration Membranes with Efficient and Stable Desalination Performance	*Xiaolei Cui1, Zixi Kang2, Hailing Guo1	(1. College of Chemical and Chemical Engineering, China University of Petroleum (East China), 2. School of Materials Science and Engineering, China University of Petroleum (East China))