Poster Session 1
Monday/ June 29th

P1-001  Crystal Structures of Heavily Na-loaded LSX Zeolites in Insulating and Metallic States; Unusual Na Distribution in Micropore
Takuji IKEDA, Takehito NAKANO, Yasuo NOZUE

P1-003  Microporous and Mesoporous Property of Octahedra based W-M-O (M=Ti, Zr, Nb, Ta) Complex Metal Oxide and their Catalytic Activity as Solid Acid
Toru MURAYAMA, Jun HIRATA, Wataru UEDA

P1-004  Synthesis of Highly Stabilized Core-shell Structured Hybrid of Layered Silicate and Metal Nanoparticles
Miharu EGUCHI

P1-005  Hydrothermal-synthesis of B-ITQ-2 Analogous
Hong ZHAO, Toshiyuki YOKOI, Junko N. KONDO, Takashi TATSUMI

P1-006  Anisotropic Raman Scattering Study of Re-doped 2H-MoSe₂ Layered Semiconductors
Yueh-Chien LEE, Sheng-Yao HU, Kwong-Kau TIONG, Ying-Sheng HUANG,

P1-007  Band-Edge-Tunable Layered Nanosheets as Highly Efficient Photocatalysts for Hydrogen Evolution
Kazuhiko MAEDA, Miharu EGUCHI Takayoshi OSHIMA

P1-008  Functionalised LDHs: Organic-inorganic Clays to Catalytic and Adsorbent Applications
Enrique LIMA, Ariel GUZMAN, Carlos FELIPE

P1-010  Simple Synthesis of Nanoporous Carbons with a High Surface Area and Their Electrochemical DoubleLayer Capacitance
Takahito MITOME, Yoshiaki UCHIDA, Norikazu NISHIYAMA
P1-013  Synthesis and Characterization of Three-Dimensionally Interconnected Macroporous Al$_2$O$_3$ with High Surface Area
Weiya YANG

P1-014  Spontaneous Formation of Functionalized Helical Silica Nanofibers with Coaxial Mixed Mesostructures for Selective Inclusion and Fabrication of Helical PtCo Nanowires Showing Unique Geometry-Dependent Magnetism
Nien-Chu LAI, Yu-Tien SHEN, Sz-Chian LIOU, Ming-Wen CHU, Chia-Min YANG

P1-016  Preparation of 3D Porous Nanocarbon Materials Using USY Zeolite as a Hard Template
Jana JANOSCOVA, Petr SAZAMA, Jiri RATHOUSKY, Libor BRABEC, Galina SADOVSKA

P1-017  Preparation of Activated Carbon from Palm Kernel Shell and Biochar or Biocoal from Leucaena in Molten Salts
Fen-Tair LUO

P1-018  Enhanced Photocatalytic Activity of Mesostructure TiO$_2$ Spheres by Doping with Cu for Emerging Pollutants Degradation
Sofia Ya Hsuan LIOU, Chin-Jung LIN Wen-Ta YANG

P1-019  Physical and Catalytic Properties of Porous MoO$_x$ obtained by H$_2$ Reduction of Pt/MoO$_3$
Takashi MATSUDA, Kenji KAWAWADA, Tomoya OHNO

P1-020  Low Temperature Synthesis of Microporous Titanate Nanofiber by Using Amorphous Titania with a High Surface Area
Misaki OTA, Bram DWIJAYA, Yoshiaki UCHIDA, Norikazu NISHIYAMA

P1-022  Synthesis and Electrochemical Properties of Composite of Li$_2$CoSiO$_4$ and Ordered Mesoporous Carbon
Yoichi OBINATA, Hideaki YOSHITAKE
P1-023  
**Influence of Au Nanoparticles Decorated Glassy Carbon Electrodes on the Catalytic Electro-oxidation of Cellulose**
Yasuhito SUGANO, Narendra KUMAR, Johan BOBACKA, Ari IVASKA, Jyri-Pekka MIKKOLA

P1-024  
**Zeolite Adsorbents for the Removal of Petroleum Products from Solid Surface**
Lidia BANDURA, Wojciech FRANUS

P1-025  
**Self-Humidifying Proton-Exchange Membrane from Confinement of PFSA in Narrow Spaces Defined by Microporous Zeolites**
Viola SIM, Wei HAN, King Lun YEUNG

P1-026  
**The Characteristics and the Effect of ZSM-5 Additive to Increase Light Olefin Fraction in Fluid Catalytic Cracking (FCC)**
Shigenori HAYASHI, Shintaro YABE, Yuji SHIRAHAMA

P1-027  
**Synthesis of Zeolitic Material from Waste Stone Cake of Green Tuff Region in Japan**
Takaaki WAJIMA

P1-030  
**Modifying Texture and Structure of Zeolites Derived from Layered Precursors Trees**
De BAERDEMAEKER, Mathias FEYEN, Ulrich MULLER, Bilge YILMAZ, Feng-Shou XIAO, Weiping ZHANG

P1-031  
**CTAB-based Template on the Synthesis of High-Surface-area Mesoporous Fibrous Silica (KCC-1)**
Erna FEBRIYANTI, Rino R. MUKTI, Veinardi SUENDO, Sugeng TRIWAHYONO, ISMUNANDAR

P1-034  
**Synthesis of Size-controlled ZIF-8 Nanocrystals by Addition of Nonionic Surfactant in Water Solution**
Yaqi ZHANG, Miho HASEGAWA, Yuta NAKASAKA, Canan GUCUYENER, Teruoki TAGO, Jorge GASCON, Freek KAPTEIJN, Takao MASUDA
P1-036  Synthesis of Hydrophobic Silicate-1 Using Fluoride Media Under Microwave Irradiation  
Mohammed A. SANHOOB, Oki MURAZA

P1-037  Charge Density Mismatch Synthesis of MEI- and BPH-Type Zeolites in the TEA⁺-TMA⁺-Li⁺-Sr²⁺ Structure-directing Agent System  
Sang Hyun AHN, Min Bum PARK, Nak Ho AHN, Suk Bong HONG

P1-039  Effect of Various Synthetic Parameters on Phase and Crystallinity of SAPO-34 Molecular Sieve  
Rajib BANDYOPADHYAY, Sunita BAROT, Maaz NAWAB

P1-040  Synthesis of Valuable Aluminosilicate Materials by Hydrothermal Conversion of K-feldspar in Various Alkaline Solutions  
Jing YANG, Zheng LUO, Hongwen MA, Cheng ZENG, Changjiang LIU, Yaren GUO

P1-041  Interlayer Expansion Extended to Me-bridges: Placing the Active Center in a Framework Silicate Precisely  
Hermann GIES, Bilge YILMAZ, Trees DEBAERDEMAEK, Ulrich MUELLER, Mathias FEYEN, Dirk DEVOS, FengShou XIAO

P1-042  Cracking Performance of Zeolite Al-UTD-1 Synthesized using Phosphazene as Organic Structure Directing Agent  
Raquel SIMANCAS, Maria Teresa NAVARRO, Angel CANTIN, Jorge SIMANCAS, Djamal, DARI, Jose Alejandro VIDAL-MOYA, Jose Luis JORDA, Teresa BLASCO, Joaquin MARTINEZ-TRIGUERO, Fernando REY

P1-044  In-situ, Stepwise Transformation of Mesoporous Silica Spheres into MCM-22 Zeolite Spheres  
Zhendong WANG, Bin ZHANG, Yueming LIU, Mingyuan HE, Peng WU, Weimin YANG
P1-045  Synthesis of Ti-CHA Zeolite with Enhanced Thermal Stability by Hydrothermal Conversion of Ti-CHA Zeolite
Tomoka TAKATA, Yusuke KUNITAKE, Nao TSUNOJI, Masahiro SADAKANE, Tsuneji SANO

P1-046  Synthesis of Metal-incorporated (M= W, Ni, Cu, Cr) Mesoporous Nb$_2$O$_5$ Photocatalysts and Its Application in Photocatalytic Water Splitting for Hydrogen Production
Hsin yu LIN, Yi jain XIE

P1-048  Influence of Additives on the Synthesis of UiO-66
Naoki TAKAYA, Mayo YAMAGUCHI, Manabu MIYAMOTO, Shigeyuki UEMIYA, Yasunori OUMI

P1-049  Hydrothermal Stability of La-, Ce- and H-MTT Zeolites in Hot Aqueous Medium
Idris A. BAKARE, Oki MURAZA, Teguh KURNIAWAN, Zain H. YAMANI, Emad SHAFEI, Ashok PUNETHA, Ki-Hyouk CHOI

P1-050  Enhanced Catalytic Performance of Dealuminated MCM-68 Zeolite in DTO Reaction
Sungsik PARK, Takuya FUKUOKA, Satoshi INAGAKI, Yoshihiro KUBOTA

P1-051  Improving Catalytic Performance of MCM-49 Zeolite by Introducing Hierarchical Porosity
Ningning GAO, Sujuan XIE

P1-053  Thermal Analysis of Dealuminated Philippine Natural Mordenite-type Zeolite
Maria Cecilia M. ANGUB, Maricris C. CUNANAN, Andrew C. DONO, Rinlee Butch M. CERVERA
P1-054  **Al Distribution and Siting of Divalent Cations in TNU-9 Zeolite**  
Robert KARCZ, Veronika PASHKOVA, Edyta TABOR, Petr KLEIN, Stepan SKLENAK, Jiri DEDECEK

P1-055  **Synthesis and Characterization of Hierarchical Mn/ZSM-5 and Its Application as Catalyst for Decomposition of Cellulose from Indonesian Rice Husk to Levulinic Acid**  
Yuni K. KRISNANDI, Noer F. ANTRA, Anastasia AGNES, Suwardiyanto SUWARDIYANTO, Dita A. NURANI, Russell F. HOWE

P1-056  **Textural Characteristic of Zeolites Synthesized from Different Precursors for CO₂ Capture**  
Rafal PANEK, Ewa WISLA-WALSH, Magdalena WDOWIN, Pawel GARA, Wojciech FRANUS

P1-057  **Fe₃O₄@MgAl-NO₃ Layered Double Hydroxide as Magnetically Separable Phosphate Sorbent From Aqueous Solution**  
Paulmanickam KOILRAJ, Keiko SASAKI

P1-059  **A Pt/ CeO₂-ZrO₂-Bi₂O₃/SBA-16 Catalyst for 1,4-dioxane Abatement in Waste Water**  
Toshiyuki MASUI, Pil-Gyu CHOI, Takanobu OHNO, Nashito FUKUHARA, Nobuhito IMANAKA

P1-060  **One-pot Knoevenagel Condensation and Phospha-Michael Addition over Zeolitic Imidazolate Framework**  
Takashi TOYAO, Yu HORIZUCHI, Masaya MATSUOKA

P1-061  **Synthesis of N/RHA/TiO₂ Composite Photocatalysts and Its Visible-light Performance**  
Qingge FENG, Siying QIN
Unprecedented Acid and Redox Activity of Template-free Al-rich BEA Zeolite
Petr SAZAMA, Lukasz MOKRZYCKI, Blanka WICHTERLOVA, Galina SADOVSKA, Vasile I. PARVULESCU, Jiri DEDECEK, Jana JANOSCOVA, Petr KLEIN

Supercritical Sovolthermal Preparation of Cu$_x$O/TiO$_2$ with Visible-light Antibacterial Property
Yuning HUO, Jiahui ZHONG, Hexing LI

Platinum Nanoparticles Imbedded Amine-Functionalized MIL-101(Cr) as a Durable Photocatalyst for Hydrogen Production from Water
Meicheng WEN, Kohsuke MORI, Yasutaka KUWAHARA, Hiromi YAMASHITA

Hydrodesulfurization Properties of Na-form ZSM-5-supported Rhodium Phosphide Catalysts
Ayaka SAWADA, Yasuharu KANDA, Masatoshi SUGIOKA, Yoshio UEMICHI

Kenta MIYAHARA, Takashi TOYAO, Yu HORTUCHI, Masaya MATSUOKA

Conversion of Ethanol into 1,3-Butadiene over Metalosilicate Beta Zeolite Catalysts
Yong WANG, Toshiyuki YOKOI, Takashi TATSUMI

Liquid Phase Hydroalkylation of Benzene over Pd/Y-Zeolite: Effect of Zeolite Acidity
S A Kishore KUMAR, Shivanand M PAI, Bharat L NEWALKAR, Kamal K PANT

Comparative Study of Organic Acid Esterification Catalyzed by Amberlyst-15 and Amberlyst-36 Cation Exchange Resin
Suriya PANKOSOL, Panarat RATTANAPHANEE
P1-073  Cooperative Effects of Secondary Mesoporosity and Spatial Distribution of Acid Site in Pt/SAPO-11 on n-Dodecane Hydroisomerization Selectivity  
Myoung Yeob KIM, Kyungho LEE, Minkee CHOI

P1-079  Fabrication of Spherical Hollow Silica Encapsulating TiO$_2$ Nanoparticles with an Improved Adsorption Property and Photocatalytic Activity  
Yuki SUMIDA, Yasutaka KUWAHARA, Hiromi YAMASHITA

P1-081  Synthesis of Nano-sized MFI Metallosilicate and Their Catalytic Performance on Methanol to Olefins Reaction  
Taichi TANIGUCHI, Keitaro YONETA, Yuta NAKASAKA, Teruoki TAGO, Takao MASUDA

P1-083  Facile Synthesis of Hierarchical Fe/ZSM-5 Composite Modified by Nitrogen-containing Organics with Superior Catalytic Properties in Phenol Degradation  
Lei LEO, Chengyi DAI, Anfeng ZHANG, Chunshan SONG, Xinwen GUO

P1-084  Effect of Silicalite-1 Coating on MFI Type Galloaluminosilicates to Product Selectivity in Aromatization of Light Alkenes  
Manabu MIYAMOTO, Jun KAMADA, Yasunori OUMI, Shigeyuki UEMIYA

P1-085  Isomerization of 2, 7-Diisopropynaphthalene with Zeolite Catalysts for PEN Production  
Young Hye LEE, Jae Sung LEE

P1-086  Operando UV/Vis Spectroscopy Reveals the Temperature Dependency of the Active and Deactivating Species during Methanol-to Olefins Conversion over H-SSZ-13  
Javier RUIZ-MARTINEZ, Elena BORODINA, Florian MEIRER, Ines LEZCANO-GONZALEZ, Mohamed MOKHTAR, Abdulllah M. ASIRI, Shaeel A. AL-THABAITI, Suliman N. BASAHEL, Bert M. WECKHUYSEN

P1-087  Isopropylbenzene Disproportionation over Large-Pore Zeolites  
Seung Hyeok CHA, Kyoung Hwan LEE, Youngchu BYUN, Suk Bong HONG
P1-089  Effect of Ti Addition to Cu/HZSM-5 Catalyst on Gas-Phase Oxidation of Benzene
Masahiro TACHIBANA, Atsushi OKEMOTO, Keita TANIYA, Yuichi ICHIHASHI, Satoru NISHIYAMA

P1-090  Isomerization of THTCPD Using Supported Ionic Liquid Catalysts
Dae Hyun KIM, Jeong Sik HAN, Tae Soo KWON, Jong Ki JEON, Jin Heong YIM

P1-093  Nanocomposite Photocatalyst Containing Tantalum-Based Pyrochlore and Indium hydroxide Showing High and Stable Activities for Water Splitting and Carbon Dioxide Reduction
Meng-Chun HSIEH, Wei-Guang LIU, William A. GODDARD, Chia-Min YANG

P1-094  Improved Hydrogen Storage Capacity by Hydrogen Spillover and Fine Structural Characterization of MIL-102 Metal Organic Frameworks
Abhijit Krishna ADHIKARI, Chao-Lung CHIANG, Kuen-Song LIN

P1-095  Support and Water Vapor Effects on Oxidative Removal of Ethylene over Pt Nanoparticles on Mesoporous Silica
Takuro YOKOYA, Kenji HARA, Manchien CHAO, Chuanxia JIANG, Atsushi FUKUOKA

P1-096  Magnesia Nanoparticles Confined in the Ordered Mesoporous Alumina for Temperature-swing CO₂ Capture
Vishwanath HIREMATH, Hanyeong LEE, Jeong Gil SEO

P1-099  Water Vapor Adsorption on Zeolites from Very Low Pressure for the Characterization of Surface Properties
Akira ENDO, Marie SHIMOMURA, Yoshihiro KAMIMURA, Makoto OKAWA, Masayuki YOSHIDA
P1-100  **Analysis of the CO\textsubscript{2} Removal Possibility from the Exhaust Gases onto Na-X Zeolite**  
Magdalena WDOWIN, Rafal PANEK, Pawel BARAN, Katarzyna ZAREBSKA, Wojciech FRANUS

P1-101  **Adsorption of Heavy Metals (Pb\textsuperscript{2+}, Cu\textsuperscript{2+}, Cd\textsuperscript{2+}) from Phosphoric Acid by Natural Zeolite and Chitosan Modified Zeolite**  
Marzhan KUSSAINOVA, Raisa CHERNYAKOVA, Umirzak JUSSIPBEKOV, Hamdi TEMEL, Salih PASA

P1-102  **Desorption and Enrichment of Tritiated Water on Organic Functionalized SBA-15**  
Akira TAGUCHI, Yuki KATO, Yuji TORIKAI

P1-104  **Recovery of Butanol from Model ABE Fermentation Broths Using Structured Adsorbents**  
Abrar FAISAL, Ming ZHOU, Jonas HEDLUND, Mattias GRAHN

P1-105  **Evaluation of Single-layer Resistance in Multilayered Ceramic-Supported Pd-based Membranes for Hydrogen Permeation**  
Alessio CARAVELLA

P1-106  **Methanol Permeation Properties through Na-ZSM-5 Membrane under Pressurized Conditions**  
Daiki YOSHIDA, Masahiro SESHIMO, Masahiko MATSUKATA

P1-107  **Propylene/Propane Separation Properties through FAU-type Zeolite Membrane**  
Masahiko MATSUKATA, Yasuhito SASAKI, Motomu SAKAI, Taisuke TOMONO

P1-108  **Application of High Silica CHA Membrane MSM-1 to Gas Separation**  
Miki SUGITA, Mikio HAYASHI, Takahiko TAKEWAKI
P1-109  Scale-up of High-flux MFI Membranes
Simon BARNES, Han ZHOU, Allan HOLMGREN, Johanne MOUZON, Jonas HEDLUND

P1-111  Effect of H₂O Composition in the Synthesis Gel on Separation Properties of SAPO-18 Membrane
Sonosuke ISHIGURO, Masahiro SESIMO, Masahiko MATSUKATA

P1-112  Facile Synthesis of Pure-silica MFI Zeolite Membranes for Gas Separations
Heng Ta CHIEN, Dun Yen KANG

P1-113  Synthesis of High-performance NaY Zeolite Membranes by Microwave Heating in Fluoride Media
Na HU, Tian GUI, Yuqin LI, Rongfei ZHOU, Xiangshu CHEN, Hidetoshi KITA

P1-114  High Flux High-silica CHA Membranes for CO₂ Separation
Nikolay KOSINOV, Canan GUCUYENER, Jorge GASCON, Freek KAPTEIJN, Emiel HENSEN

P1-117  Reactive Intermediates Formed in Dioxygen-activated Cu-ZSM-5 with One or Two Water Molecule: A Computational Study
Yuuki HIROSE, Takashi YUMURA, Yasushige KURODA, Takashi WAKASUGI, Hisayoshi KOBAYASHI

P1-118  A Density Functional Theory Calculation on the dissociation mechanism of NO catalyzed by Cu₄-ZSM-5
Chen-Hao YEH, Jia-Jen HO

P1-119  Conversion of CO₂ and C₂H₆ to Propanoic Acid on an Iridium-modified Graphene Oxide Surface — a Quantum-Chemical
Chih-Chun CHEN, Chun-Chih CHANG, Jia-Jen HO
Poster Session 2  
Wednesday/ July 1st

P2-001  Encapsulating Photoluminescent Materials in Zeolites. Crystal Structure of Fully Dehydrated, Largely Eu$^{3+}$-Exchanged Zeolite Y (Si/Al = 1.69)
Cheol W. KIM, Jong J. KIM, Karl SEFF, Nam H. HEO

P2-002  Catalytic Linear Alkylbenzene Synthesis over Zeolitic Material
Siang-Ting YEN, Jhao-Jyun WANG, Tseng-Chang TSAI

P2-003  Sequential Modification of Montmorillonite Using DDAC and BDOAC for Adsorption of Perchlorate
Akihiro INOUE, Wuhui LUO, KWADWO OSSEO-ASARE, Tsuyoshi HIRAJIMA, Keiko SASAKI

P2-004  Swelling and Exfoliation Behaviors of Novel Layered Silicates HUS-2 and HUS-7 and Its Application to Catalyst Precursor
Yuya YAGENJI, Nao TSUNOJI, Yusuke IDE, Masahiro SADAKANE, Tsuneji SANO

P2-005  Fabrication of Nanozyme Based Amperometric Sensor for Ultra-trace Determination of Bio Molecules
Naeem AKHTAR, Sherif A. EL-SAFTY

P2-006  Analysis of the Interlayer Expanded Zeolite Zn-IEZ-RUB-36
Isabel GROSSKREUZ, Hermann GIES, Sandra GRABOWSKI

P2-007  Interlayer Modification with Pt Nanoclusters and Aater Splitting Reactivity of Restacked KCa$_2$Nb$_3$O$_{10}$ Nanosheets
Takayoshi OSHIMA, Osamu ISHITANI, Kazuhiko MAEDA

P2-008  Synthesis of Mesoporous Materials with Bimodal Pores from Layered Perovskite Type K$_2$NbO$_3$F
Masataka OGASAWARA, Yusuke KOBAYASHI, Shota NAKAJIMA, Sumio KATO
P2-010  Design of Mesoporous Sensor/Captor for Optical Recognition and Sequestration of Au(III) Ions from Urban Min
Sherif A. EL-SAFTY, Emad A ELSHEHY, Mohamed A SHENASHEN

P2-011  Structure Determination of Novel Aluminophosphate Synthesized using Diethylamine as Structure Directing Agent
Sung June CHO, Joong Hyun KIM

P2-012  Porous Zinc/Cobalt-based Metal Azolate Frameworks from Metal Nitrates and Imidazolates: Synthesis, Characterization, and N2/CO2 Adsorption
Chao-Lung CHIANG, Abhijit Krishna ADHIKARI, Kuen-Song LIN

P2-014  Synthesis and Electrochemical Properties of Two Dimensional Highly Ordered Mesoporous Carbon/Graphene Nanocomposite for Electrochemical Double Layer Capacitors
Kwang Bum KIM, Ho Seok KIM, Chang Wook LEE

P2-015  Synthesis and Structural Diversity of Three Structural Isomeric Coordination Polymers Constructed by Benzene Dicarboxylate and Dipyridyl Ligand
Chia-Wen CHENG, Szu-Yu KE, Hsiao-Shan CHIU, Yu-Wen WANG, Chih-Chieh WANG

P2-016  Target Design and Synthesis of Copolymerized Porous Organic Frameworks (POFs) with High Stability and Exceptionally High Gas Storage Properties
Cuiying PEI, PEI BEN, Shilun QIU

P2-018  Fabrication of Mesoporous Co3O4 from LP-FDU-12 via Nanocasting Route and Effect of Wall/Pore Size on Their Magnetic Propertie
Hong-Xiao JIN, Hong BO, Chi-Ya WANG, Ding-Feng JIN, Hong-Liang GE

P2-019  Catalytic Efficiency of Co3O4/Multiwalled Carbon Nanotubes Modified Nickel Foam Electrode in Fuel Cell
Diab K AHMED, Sherif A EL-SAFTY, G ABOUELMAGD
P2-021  Strong Fluorescence from Silver-Loaded Zeolite Y and Its Characterization
Erni JOHAN, Djoko MULYANTO, Satoru FUKUGAICHI, Yoshiteru ITAGAKI, Hiromichi AONO, Naoto MATSUE

P2-022  Facile Synthesis of Hollow Mesoporous Silica Nanospheres with Thin Shell and Cubic Ia3d Structure for Biomedical Applications
Chih-Yu LIN, Nien-Chu LAI, Chia-Min YANG

P2-023  Effect of LiCl Aqueous Solutions on the Energetic Performances of Silicalite-1
Ismail KHAY, Habiba NOUALI, Andrey RYZHIKOV, Severinne RIGOLET, T. Jean DAOU, Joel PATARIN,

P2-025  Upgrading of Palm Biodiesel Fuel over Supported Palladium Catalysts
Shih-Yuan CHEN, Lalita ATTANATHO, Takehisa MOCHIZUKI, Yohko ABE, Makoto TOBA, Yuji YOSHIMURA

P2-026  Synthesis of Pure NaA Zeolites from Coal Fly Ashes for Removal of Ammonium from Aqueous Solutions
Zhouqing JIANG, Jing YANG, Hongwen MA, Xi MA

P2-027  Application of NMR Spectroscopy for Characterization of Porous Shaped Materials for Catalysis and Adsorption Applications
Andrei-Nicolae PARVULESCU, Lena ARNOLD, Stefan MARX, Ulrich MUELLER, Frank STALLMACH

P2-029  Improving Stability of Nanoscale HZSM-5 for Shape-selective Methylation of Toluene in a Pilot Plant
Yiren WANG, Min LIU, Yi ZUO, Wei TAN, Jia MA, Chunshan SONG, Xinwen GUO

P2-030  A Novel CrB-Type Binary Colloidal Crystal with an Interstratified Structure
Yoshiyuki KURODA, Yasuhiro SAKAMOTO, Kazuyuki KURODA
P2-031  FER/MOR Composite Zeolite Synthesis
Xiujie LI, Sujuan XIE, Mingrun LI, Xiangxue ZHU, Zhiqiang YANG, Longya XU

P2-032  Templateless Synthesis of Mesoporous and Hierarchically Macro-/Mesoporous Silica Spheres with Notable Structural Tunability and Complexity
Kyungmin MIN, Minkee CHOI

P2-033  Synthesis of Mesoporous MFI Zeolites using ZnO Nanoparticles as Template
Koji MIYAKE, Mayuka YAMADA, Yusuke SUGIURA, Yoshiaki UCHIDA, Norikazu NISHIYAMA

P2-034  Synthesis of Small Pore Silicoaluminophosphates Using Supramolecular Self-assembled OSDAs
Raquel MARTINEZ-FRANCO, Angel CANTIN, Manuel MOLINER, Avelino CORMA

P2-035  Hydrothermal Conversion of FAU Zeolite in the Presence of Various Tetraalkylphosphonium Cations as Structure-directing Agent
Yoshitaka YAMASAKI, NaO TSUNOJI, Masahiro SADAKANE, Tsuneji SANO

P2-036  OSDA (Organic Structure Directing Agent)-Free Zeolite Synthesis of CHA-type Zeolite from FAU-type Zeolite Phase Transition
Yoko YAMAGUCHI, Shunji TSURUTA, Akira NAKASHIMA

P2-037  Influence of Sodium Chloride Additive on Texture of the Amorphous Aluminosilicate Precursors of Mordenite
Koji NISHI, Kenjiro SADAMORI, Shunsuke MINAMOTO, Natsumi KAMIYA, Yoshinobu YOKOMORI

P2-038  Synthesis of Nanosized Silicalite-1 and Effect of Seeds and other Parameters during Synthesis
Rajib BANDYOPADHYAY, Maaz NAWAB, Sunita BAROT
Effects of Synthesis Parameters on Zeolite 4A Crystallization by Hydrothermal Method
Selcen TEMEL, Mahmut ATES, Pembe Hande OZ, Hansu Julide KOROGLU

Microwave-assisted Synthesis of NaX under Solvent-free Conditions
Shangjing ZENG, Runwei WANG, Zongtao ZHANG, Shilun QIU

Synthesis of ZSM-11/ZSM-5 Zeolite Using 1,3-Cyclohexanedimethanamine as Template
Yi LUO, Zhendong WANG, Na LI, Bin ZHANG, Hongmin SUN, Weimin YANG

Fabrication of PEDOT/PSS Micro-particle with Magnetite (Fe₃O₄) Using a Microfluidic Droplet Devices
Sang Woo LEE, Jong Seob CHOI, Su-Jung KIM, Kuk Young CHO, Jin-Heong YIM

Synthesis of LEV-Type Aluminosilicate Zeolite in Media Containing Fluoride Anions
Hiroyuki IMAI, Masaya KATO, Naoto MAEDA, Kazusa TERASAKA, Xiaohong LI

Synthesis of Hierarchical Zeolite Using Gemini Surfactant as an Organic Template
Yunxiang LI, Feifei GAO

Crystallization of MON-Type Aluminosilicate by Post-synthetic Treatment of –LIT-Type Aluminosilicate
Takako NAGASE, Takuji IKEDA, Norihito HIYOSHI, Chie ABE, Koichi SATO

Post-Synthetic Modification of Redox-Active Porous Ionic Crystals
Ryosuke KAWAHARA, Sayaka UCHIDA, Noritaka MIZUNO

Effect of Alkali-treatment on Catalytic Properties of Ti-MFI for H₂O₂ Oxidation
Masahiko MATSUKATA, Kentaro NAGASHIMA, Kosuke TAKAISHI
P2-051  Alteration of Molecular Sieving Property of ZIF-8 Via Confinement of Ionic Liquids
Yujie BAN, Yanshuo LI, Weishen YANG

P2-052  Syntheses and Single Crystal Structures of Zr\textsubscript{1.7}Tl\textsubscript{5.4}Cl\textsubscript{1.7}-A and Zr\textsubscript{2.1}Tl\textsubscript{1.6}Cl\textsubscript{2.9}-A
Joon Y. KIM, Nsanzimana J. M. VIANNEY, Chungwoo LEE, Karl SEFF, Nam H. HEO

P2-053  Synthesis and Characterization of Intergrowth Zeolite Composite of LSX/A
Supak TONTISIRIN

P2-054  The Deactivation Mechanism of Micro-B-ZSM-5 in Methanol-to-Propene Conversion
Wenhui LI, Min LIU, Chengyi DAI, Xinwen GUO

P2-055  Characterization of MFI Membrane by N\textsubscript{2} and Hydrocarbon Adsorption
Kohei MATSUMOTO, Yuki IIJIMA, Masahiro SESHIMO, Masahiko MATSUKATA

P2-056  Evaluation of Membrane Micro-Pore Volume Derived from Zeolite Crystal Structure Using Nitrogen Adsorption Method
Masahiro SESHIMO, Yuki IIJIMA, Yuko KONISHI, Masayuki YOSHIDA, Masahiko MATSUKATA

P2-057  Protein Adsorption Using Mesoporous Silica-Based Cation-Exchange Adsorbents: Frustules and Rice Husk Ashes
Zhi-Yi ZHENG, Shing-Yi SUEN, Min-Ying WANG, Yu-Fen GUAN

P2-058  Preparation of SiO\textsubscript{2} and SiO\textsubscript{2}-Al\textsubscript{2}O\textsubscript{3} Catalysts by Gel Skeletal Reinforcement and Analysis of Catalytic Cracking Reaction of N-Dodecane
Atsushi ISHIHARA, Hiroaki OONO, Tadanori HASHIMOTO, Hiroyuki NASU
P2-060 Immobilization of Ru Complexes on Organic Ligands in Periodic Mesoporous Organosilicas
Nobuhiro ISHITO, Kenji HARA, Yoshifumi MAEGAWA, Shinji INAGAKI, Atsushi FUKUOKA

P2-061 Selectively Catalytic Production of 5-Hydroxymethylfurfural from Fructose by Adjusting Catalyst Wettability
Liang WANG, Xiangju MENG, Feng-Shou XIAO

P2-062 Enhanced Performance in Catalytic Combustion of Toluene over Zeolite-Supported Platinum Catalyst
Chunyu CHEN, Xiangju MENG, Feng-Shou XIAO

P2-063 Enhanced Photocatalytic Properties of TiO$_2$-Loaded Porous Silica with Hierarchical Macroporous and Mesoporous Architectures
Takashi KAMEGAWA, Yasushi ISHIGURO, Hiromi YAMASHITA

P2-064 Deposition of Carbon Layers on Pt Surface: Selective Dissociation of H$_2$ over O$_2$ on Hindered Pt Surface for Direct Synthesis of Hydrogen Peroxide
Sunwoo YOOK, Minkee CHOI

P2-065 SBA-15 supported Pt Nanoparticles as a Highly Efficient Catalyst for Catalytic Toluene Oxidation
Ching-Shiun CHEN, Jia-Whuang WU

P2-066 Ni-Exchanged AlSBA-15 Mesostructured Materials as Outstanding Catalysts for Ethylene Oligomerization
Radu-Dorin ANDREI, Annie FINIELS, Francois FAJULA, Marcel Ionel POPA, Vasile HULEA
P2-067  Direct Catalytic Dehydration of 1,3-Butanediol for 1,3-Butadiene over ZSM-5 Materials
Fangli JING, Benjamin KATRYNIOK, Marcia ARAQUE, Franck DUMEIGNIL, Sebastien PAUL, Marc PERA-TITUS, Jean-Marc CLACENS, Floryan DECAMPO

P2-068  Methane Conversion to Aromatics over Mo and Ga Modified H-AlMFI Catalyst Prepared by Hydrothermal Method
Pradeep Kumar BUDDE, Sreedevi UPADHYAYULA

P2-069  The Potential of Medium-Pore Zeolites for Improved Propene Yields from Catalytic Cracking
Florian BAGER, Stefan ERNST

P2-071  Evaluation of Resid Fluid Catalytic Cracking Catalysts: Comparison of Lab Deactivated Catalysts with Commercial Ecatal
Gnana Pragasam SINGARAVEL, Tony K JOSEPH, Abdulmajeed AL KATHEERI, Berthod MICHAEL

P2-072  Hydrogen-Enriched Producer Gas Production form Biomass Gasification Using NiO/SBA-15
Baowang LU, Yiwen JU, Katsuya KAWAMOTO

P2-073  Fine Chemical Production from Corncob Catalytic Cracking
Duangamol N. TUNGASMITA, Chomalee KASIBAN

P2-074  Low-Temperature Oxidation of CO over Pd/TiO₂/CeO₂
Atsushi SATSUMA, Masatoshi YANAGIHARA, Kaoru OSAKI, Yurina SAEKI, Heng LIU, Yuta YAMAMOTO, Shigeo ARAI, Junya OHYAMA

P2-075  Kinetics of Catalytic Cracking of Naphtha’s Representatives over ZSM-5 Zeolites for Light Olefins Selective Synthesis
Ryota OHNAKA, Kenta MURAMOTO, Yuta NAKASAKA, Teruoki TAGO, Takao MASUDA
P2-078 Silver Nanoparticles Supported on CeO$_2$-SBA-15 by Microwave Irradiation Possessing Metal-Support Interaction and Enhanced Catalytic Activity
Xufang QIAN, Piyanka VERMA, Yasutaka KUWAHARA, Kohsuke MORI, Hiromi YAMASHITA

P2-079 Fe-Substituted MFI Zeolites with Different Acidic Properties for DTO Reaction
Hiroki KOBAYASHI, Masafumi NAKAYA, Kiyoshi KANIE, Atsushi MURAMATSU

P2-081 Aerobic Oxidation of Alkyl Aromatics over PrAlPO-5 Catalysts
B. SUNDARARAVEL, V. MURUGESAN

P2-083 Catalytic Properties of ZSM-5 Zeolite Nanoparticles Obtained via Mechanochemical and Chemical Modifications
Satoshi INAGAKI, Shoma SHINODA, Shunsuke HAYASHI, Toru WAKIHARA, Hiroshi YAMAZAKI, Junko N. KONDO, Yoshihiro KUBOTA

P2-084 Functionalized SBA-15 Supported Pd Nanoparticles as Efficient Catalyst for Ligand-Free Hiyama Cross-Coupling Reaction
Albert CHANG, Shao-Hsien HUANG, Chun-Hsia LIU, Chia-Min YANG

P2-085 Synthesis of Mesoporous Silica Functionalized by Organo-Amino Groups Connected via Si-C Bond
Tsuyoshi KUGITA, Kanako AMBO, Saki YOSHIZAWA, Shirohiko OGINO, Kazuki SHIMADA, Yuji TOBARI

P2-086 Conversion of Methanol to Olefins over Zeolites with DDR Topology: Effect of Acid Site Strength and Location on Catalytic Performance
Irina PROKOPYEVA, Canan GUCUYENER, Jorge GASCON, Freek KAPTEIJN

P2-088 Dehydration of Sorbitol to Isosorbide over Zeolite Catalysts
Haruka YOKOYAMA, Bo FENG, Hirokazu KOBAYASHI, Mizuho YABUSHITA, Xin CHEN, Atsushi FUKUOKA
P2-089 o-Pinene Oxide Isomerisation over Cobalt Supported Zeolites
Eero SALMINEN, Paivi MAKI-ARVELA, Narendra KUMAR, Jyri-Pekka MIKKOLA

P2-090 XPS Analysis of HZSM-5 Zeolite Catalysts for Steam Cracking of Naphtha
Koichi SATO, Aritomo YAMAGUCHI, Takuji IKEDA, Norihito HIYOSHI, Taka-aki HANAOKA, Masayuki SHIRAI, Fujio MIZUKAMI

P2-091 The Study of Ligand Effect on Direct Oxidation of Benzene over V Complexes Encapsulated in Y-Zeolite Catalysts by DFT Calculation
Atsushi OKEMOTO, Keita TANIYA, Yuichi ICHIHASHI, Satoru NISHIYAMA

P2-093 Synthesis and Characterization of V-Loaded Titania Nanotubes for Adsorption/Photocatalysis of Dyes and Environmental Hormones Contaminated Wastewaters
Kuen-Song LIN, Chao-Lung CHIANG, Abhijit Krishna ADHIKARI, Khanh Toan DINH

P2-094 CO₂ Gas Storage and CO₂/N₂ Separation Properties of MOF-74(Ni) with Fins Structural Characterization
Abhijit Krishna ADHIKARI, Chao-Lung CHIANG, Kuen-Song LIN

P2-097 Methyl Iodide Trapping by Silver-Exchanged Zeolites: Influence of Structural and Chemical Parameters on Adsorption Performances and Trapping Stability
Mouheb CHEBBI, Bruno AZAMBRE, Laurent CANTREL

P2-100 Preparation of Faujasite Including Metal Sulfide and Adsorption Properties in the Light Irradiation
Satoshi YAMAZAKI, Yukino MURAMATSU, Yuki MATSUOKA

P2-101 Desulfurization of Thiophene from Model Gasoline with Sulfur-metal σ Bond Adsorbent
Mei XUE, Tingting LI, Qi FENG
Adsorptive Removal of Methylchlorophenoxypropionic Acid Using Metal-organic Frameworks
Yeo S. SEO, Sung Hwa JHUNG

Gas Adsorption in Metal-organic Frameworks Using Surface Acoustic Waves and Computational Methods
German SASTRE, Ben PASCHKE, Dirk VOLKMER

Nanoporous Gold/Alumina Platforms as SERS-Active Substrates for Highly Sensitive Monitoring of Biomolecules
Waleed A. EL-SAID, Sherif A. EL-SAFTY

Xylene Isomer Separation with Slicalite-1 Membrane under Pressurized Conditions
Motomu SAKAI, Takuya KANEKO, Masahiko MATSUKATA

Post-treatment for MFI-Type Zeolite Membrane with Tetraethylorthosilicate in Liquid Phase
Motomu SAKAI, Keisuke TOMAKI, Takuya KANEKO, Masahiko MATSUKATA

Very High Flux MFI Membranes for Alcohol Recovery via Pervaporation at High Temperature and Pressure
Liang YU, Danil KORELSKIY, Jonas HEDLUND

Zeolite Membranes for Efficient Upgrading of Biogas
Shahpar FOULADVAND, Danil KORELSKIY, Mattias GRAHN, Jonas HEDLUND

Aqueous Synthesis of ZIF-8 Membranes on Imidazoline-End-Group-Functionalized Porous Alumina Supports
Shunsuke TANAKA, Tomoko SHIMADA, Yoshikazu MIYAKE
P2-111 Fabrication of Highly b-Oriented MFI Films by Adding Ammonium Salts during the Secondary Growth
Xiaofei LU, Yong PENG, Zhengbao WANG

P2-112 Zeolite Membranes on the Zeolite/Polymer Blend Composite Hollow Fibers
Zhiying ZHAN

P2-113 Vapor Phase Esterification in a Zeolite Membrane Reactor
Yuhei KIKUCHI, Kento IWASAKI, Jun ISHIDA, Takaumi SATO, Naotsugu ITOH, Yoshimichi KIYOZUMI, Takako NAGASE, Yasuhisa HASEGAWA

P2-114 Maxwell-Stefan Modeling on the Performance of High Flux Tubular Silicalite-1 Membranes for Upgrading of Synthesis Gas for Methanol Synthesis
Mattias GRAHN, Jonas HEDLUND

P2-115 Air Separation at Cryogenic Temperature Using Ultra-Thin MFI Membranes
Pengcheng YE, Danil KORELSKIY, Mattias GRAHN, Jonas HEDLUND

P2-116 Electronic Structure of Protonated Thiophene-Based Oligomers as Formed within Zeolites
Diego VALENCIA, Gareth T. WHITING, Rosa E. BULO, Bert M. WECKHUYSEN

P2-118 Density-functional Calculations of Methanol Synthesis from Methane Oxidation on 2Pt-Graphene Oxide Surface
Chien-Hao LIN, Shiuan-Yau WU, Jia-Jen HO

P2-119 n-Hexane Steam Cracking Using ZSM-5 Catalysts: Catalyst Deactivation and Chemical Modification
Aritomo YAMAGUCHI, Dingfeng JIN, Takuji IKEDA, Koichi SATO, Norihito HIYOSHI, Masayuki SHIRAI, Fujio MIZUKAMI, Takaaki HANAOKA
RRR1-001 Synthesis of Pure NaA Zeolites from Coal Fly Ashes for Removal of Ammonium from Aqueous Solutions
Zhouqing JIANG, Jing YANG, Hongwen MA, Xi MA

RRR1-002 Flexible two-dimensional Mg(II) porous coordination polymer with isonicotinate N-oxide ligand capable of H₂O/alcohol vapor separation
Rika OCHI, Shin-ichiro NORO, Yuichi KAMIYA, Kazuya KUBO, Takayoshi NAKAMURA

RRR1-003 Development of porous ceramic substrates for zeolite membranes
Hirokazu WATANABE, Tomokazu EDA, Keita MIYAJIMA

RRR1-004 An Aluminophosphate Molecular Sieve with 36 Crystallographically Distinct Tetrahedral Sites
Jun Kyu LEE, Alessandro TURRINA, Liangkui ZHU, Seungwan SEO, DaliangZHANG, Paul A. COX, Paul A. WRIGHT, Shilun QIU, Suk Bong HONG

RRR1-005 Synthesis of ZSM-11/ZSM-5 Zeolite Using 1,3-Cyclohexanedimethanamine as Template
Yi LUO, Zhendong WANG, Na LI, Bin ZHANG, Hongmin SUN, Weimin YANG

RRR1-006 Synthesis and Structural Diversity of Three Structural Isomeric Coordination Polymers Constructed by Benzene-dicarboxylate and Dipyridyl-type Ligands
chia-wen CHENG, Szu-Yu KE, Hsiao-Shan CHIU, Yu-Wen WANG, Chih-Chieh WANG

RRR1-007 New method for NO direct decomposition on Cu-ZSM-5 catalyst; unsteady-state reaction using microwave
Shohei HARADA, Takeshi OHNISHI, Masaru OGURA
RRR1-008 Single-Crystal Structures of Fully Dehydrated Partially Zn\textsuperscript{2+}-exchanged Zeolite Y (FAU, Si/Al = 1.56) Depending on Zn\textsuperscript{2+} Concentration of Aqueous Solution during Exchange
Dae Jun MOON, Hu Sik KIM, Ha Young LEE, Woo Taik LIM

RRR1-009 Lithium Exchange into Zeolites X (Si/Al = 1.09) and Y (Si/Al = 1.56) from Undried Methanol, Water, and Undried Formamide Solution
Hu Sik KIM, Ha Young LEE, Dae Jun MOON, Jong Sam PARK, Woo Taik LIM

RRR1-010 Dry gel conversion synthesis of flake-like SAPO-18 crystals using organosilane as a Si source
Mayuka YAMADA, Yuichiro HIROTA, Yoshiaki UCHIDA, Yasuhiro SAKAMOTO, Norikazu NISHIYAMA

RRR1-011 Enhancement of catalytic activity for toluene disproportionation by loading Ni on ZSM-5 zeolite
Koshiro NAKAMURA, Akihito OKUDA, Satoshi SUGANUMA, Naonobu KATADA

RRR1-012 Decomposition of Hexafluoroethane on Zeolite/Calcium Oxide
Kazunori TAKAI, Sadao ARAKI, Kaiwei WENG, Hideki YAMAMOTO

RRR1-013 Single Pass Oxidehydration of Glycerol into Acrylic Acid over Bifunctional Mo-V-O/ZSM-5 Catalyst
Takuya HISAZUMI, Satoshi SUGANUMA, Naonobu KATADA

RRR1-014 Efficient removal of phthalic acid from contaminated water with zinc-methylimidazolate framework-8 (ZIF-8)
Pill Won SEO, Yeo Song SEO, Sung Hwa JHUNG

RRR1-015 A breakthrough in the seed–directed OSDA-free synthesis of zeolites
Keiji ITABASHI, Elangovan SHANMUGAM PALANI, Tatsuya OKUBO
RRR1-016 **Calculation of Effective Pore Properties for Methane Storage by Using MOF Type Coarse-grained Structure**
Yusuke MUKAE, Hirofumi MOTEGI, Akira SHICHI

RRR1-017 **OSDA-Free Beta with High Al Content Efficiently Catalyzes Conversion of Glucose to 5-Hydroxymethylfurfural**
Ryoichi OTOMO, Takashi TATSUMI, Toshiyuki YOKOI

RRR1-018 **Zeolite Catalyzed Friedel-Crafts Acylation of 2-Methoxynaphthalene for Environmental Benign and Highly Selective Synthesis of 2-Methoxy-6-acetylnaphthalene**
Kenichi KOMURA, Tomoyoshi YAMAZAKI

RRR1-019 **Core-Sheath; PVDF-Layered Double Hydroxide (LDH) Hybrid Substrate for Solid State Alkaline Fuel Cell (SAFC) Membrane Application**
Anilkumar GOPINATHAN M, PeiLin ZHANG, S SAILAJA, Keita MIYAJIMA, Nair BALAGOPAL N, Takeo YAMAGUCHI

RRR1-020 **A Novel Amphiphilic Crystalline Microporous Aluminosilicate Material**
Takuma NAKAOKA, Takuji IKEDA, Norihito HIYOSHI, Ami IRISA, Miki KAWANO, Katsutoshi YAMAMOTO
RRR2-001 Furfural Synthesis from Bamboo Powder over CHA-type Zeolite in Biphasic Solvents
Kurumi YOSHIDA, Hedataka NANAO, Yoshimichi KIYOZUMI, Osamu SATO, Aritomo YAMAGUCHI, Masayuki SHIRAI

RRR2-002 Preparation of high-silica CHA type zeolite membrane using zeolite as starting material and its separation property
Satoshi IMASAKA, Masaya ITAKURA, Kazuhiro YANO, Suguru FUJITA, Yasuhisa HASEGAWA, Chie ABE

RRR2-003 Conversion of tetralin to aromatic hydrocarbons on nano-sized ZSM-5
Hidenori YAMADA, Satoshi YOSHIDA, Wataru KOBAYASHI, Yasuyuki TAKAMITSU, Yukio ITO, Shigeru HIRANO

RRR2-004 Preparation of Mesoporous Mg–Al Mixed Metal Oxides with High Surface Area and Large Pore Volume by Using Uniform Layered Double Hydroxide Nanoparticles as Precursors
Yuya OKA, Yoshiyuki KURODA, Takamichi MATSUNO, Atsushi SHIMOJIMA, Hiroaki WADA, Kazuyuki KURODA

RRR2-005 Synthesis of Nanoporous Carbon with High Surface Area and Their Adsorption Properties
Takahito MITOME, Stijn VAN DER PERRE, Gino V. BARON, Joeri F. M. DENAYER, Norikazu NISHIYAMA

RRR2-006 27Al liquid state NMR studies on formation process of tubular aluminogermanate
Moe YOSHIKAWA, Masashi OOKAWA
RRR2-007 Crystallization of Sn-beta zeolites from Sn-Si mixed oxide composites
Takayuki IIDA, Atsushi TAKAGAKI, Tatsuya OKUBO, Toru WAKIHARA

RRR2-008 Preparation of ZIF-8 membrane using miscible and immiscible liquid-liquid interfaces
Nobuo HARA, Miki YOSHIMUNE, Hideyuki NEGISHI, Shigeki HARA, Takeo YAMAGUCHI

RRR2-009 One-pot synthesis of hollow organosilica nanoparticles with enlarged particle size and diversified organic moieties using silica nanospheres as templates
Natsume KOIKE, Watcharop CHAIKITTISILP, Atsushi SHIMOJIMA, Tatsuya OKUBO

RRR2-010 Effect of new matrix component on cracking Performance of FCC catalyst and its application to the combination with ZSM-5 additive
Yuji SAKA, Norihito CHIYODA, Katsuya WATANABE, Satoshi INAGAKI, Yoshihiro KUBOTA

RRR2-011 Structural and catalytic properties of [Al,B]-CON-type zeolites
Masato YOSHIOKA, Takashi TATSUMI, Toshiyuki YOKOI

RRR2-012 Preparation of Highly Ordered Mesoporous Nb-Doped TiO\(_2\) with Single Crystalline Framework and Plate-like Nb-Doped TiO\(_2\) with Ordered Mesoscale Dimples
Yuta SHIMASAKI, Masaki KITAHARA, Takamichi MATSUNO, Yoshiyuki KURODA, Atsushi SHIMOJIMA, Hiroaki WADA, Kazuyuki KURODA

RRR2-013 Preparation of Au Nanoparticles Embedded in the Framework of Mesoporous CeO\(_2\)
Miho SHOJI, Masaki KITAHARA, Atsushi SHIMOJIMA, Hiroaki WADA, Kazuyuki KURODA
RRR2-014 Preparation of Monodisperse Colloidal Mesoporous Silica Particles with Expanded Pores and Fabrication of Colloidal Crystals
Eisuke YAMAMOTO, Seiya MORI, Hiroto UJIIE, Hironori YAMADA, Atsushi SHIMOJIMA, Hiroaki WADA, Kazuyuki KURODA

RRR2-015 Photoluminescence of Ag-Zeolite
Shinji FUJIKI, Koji SUGIYAMA, Akio TANIGUCHI, Minoru MATSUKURA, Toru WAKIHARA, Hideto SAKANE

RRR2-016 Adsorption sites of 2-PrOH on a one-dimensional Cu-based coordination polymer
Takayuki SUZUKI, Atsushi KONDO, Kazuyuki MAEDA

RRR2-017 Synthesis of Layer-based Vanadium 1,3,5-Benzenetriphosphonates
Akira IRIE, Atsushi KONDO, Kazuyuki MAEDA

RRR2-018 Synthesis of highly crystalline AFX-type zeolite by using bulky and rigid diquat molecules as a structure-directing agent
Naoto NAKAZAWA, Satoshi INAGAKI, Yoshihiro KUBOTA

RRR2-019 Synthesis of carbon nanospheres with high durability and its applications
Kazusa TERASAKA, Shogo NAKAYAMA, Yusuke TSUKAMOTO, Keigo GOTO, Xiaohong LI, Hiroyuki IMAI

RRR2-020 Ultra-small silver-EMT nanoparticles: synthesis and antibacterial properties
B. DONG, S. BELKHAIR, M. ZARROUR, L. FISHER, J. VERRAN, L. TOSHEVA, S. MINTOVA