

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 Al₂O₃ 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 JANOSKOVA, 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 TiO₂ 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 H₂ Reduction of Pt/MoO₃

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 Li₂CoSiO₄ 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 AI-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 Nb₂O₅ 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 WDOWN, 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 HORIUCHI, Masaya MATSUOKA

P1-061 Synthesis of N/RHA/TiO₂ Composite Photocatalysts and Its Visible-light Performance

Qingge FENG, Siying QIN

P1-062 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

P1-063 Supercritical Solvothermal Preparation of Cu_xO/TiO₂ with Visible-light Antibacterial Property

Yuning HUO, Jiahui ZHONG, Hexing LI

P1-064 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

P1-065 Hydrodesulfurization Properties of Na-form ZSM-5-supported Rhodium Phosphide Catalysts

Ayaka SAWADA, Yasuharu KANDA, Masatoshi SUGIOKA, Yoshio UEMICHI

P1-066 Synthesis of Zr-based MOF with Porphyrin Units and Its Application for Photocatalytic Hydrogen Production under Visible-light Irradiation.

Kenta MIYAHARA, Takashi TOYAO, Yu HORIUCHI, Masaya MATSUOKA

P1-067 Conversion of Ethanol into 1,3-Butadiene over Metalosilicate Beta Zeolite Catalysts

Yong WANG, Toshiyuki YOKOI, Takashi TATSUMI

P1-069 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

P1-071 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 TiO₂ 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 LUO, 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-Diisopropylnaphthalene 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, Abdullah 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 CO₂ Removal Possibility from the Exhaust Gases onto Na-X Zeolite

Magdalena WDOWN, Rafal PANEK, Pawel BARAN, Katarzyna ZAREBSKA, Wojciech FRANUS

P1-101 Adsorption of Heavy Metals (Pb²⁺, Cu²⁺, Cd²⁺) 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 SESHIMO, 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 SANŌ

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 $\text{KCa}_2\text{Nb}_3\text{O}_{10}$ Nanosheets

Takayoshi OSHIMA, Osamu ISHITANI, Kazuhiko MAEDA

P2-008 Synthesis of Mesoporous Materials with Bimodal Pores from Layered Perovskite Type $\text{K}_2\text{NbO}_3\text{F}$

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 *1a3d* 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

P2-040 Effects of Synthesis Parameters on Zeolite 4A Crystallization by Hydrothermal Method

Selcen TEMEL, Mahmut ATES, Pembe Hande OZ, Hansu Julide KOROGLU

P2-041 Microwave-assisted Synthesis of NaX under Solvent-free Conditions

Shangjing ZENG, Runwei WANG, Zongtao ZHANG, Shilun QIU

P2-042 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

P2-045 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

P2-046 Synthesis of LEV-Type Aluminosilicate Zeolite in Media Containing Fluoride Anions

Hiroyuki IMAI, Masaya KATO, Naoto MAEDA, Kazusa TERASAKA, Xiaohong LI

P2-047 Synthesis of Hierarchical Zeolite Using Gemini Surfactant as an Organic Template

Yunxiang LI, Feifei GAO

P2-048 Crystallization of MON-Type Aluminosilicate by Post-synthetic Treatment of –LIT-Type Aluminosilicate

Takako NAGASE, Takuji IKEDA, Norihito HIYOSHI, Chie ABE, Koichi SATO

P2-049 Post-Synthetic Modification of Redox-Active Porous Ionic Crystals

Ryosuke KAWAHARA, Sayaka UCHIDA, Noritaka MIZUNO

P2-050 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 $Zr_{1.7}Ti_{5.4}Cl_{1.7}$ -A and $Zr_{2.1}Ti_{1.6}Cl_{2.9}$ -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_2 and Hydrocarbon Adsorption

Kohei MATSUMOTO, Yuki IJIMA, Masahiro SESHIMO, Masahiko MATSUKATA

P2-056 Evaluation of Membrane Micro-Pore Volume Derived from Zeolite Crystal Structure Using Nitrogen Adsorption Method

Masahiro SESHIMO, Yuki IJIMA, 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_2 and SiO_2 - Al_2O_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 TiO₂-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 H₂ over O₂ on Hindered Pt Surface for Direct Synthesis of Hydrogen Peroxide

Sunwoo YOON, 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 AISBA-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 Ecat

Gnana Pragasam SINGARAVEL, Tony K JOSEPH, Abdulmajeed AL KATHEERI, Berthod MICHAEL

P2-072 Hydrogen-Enriched Producer Gas Production from 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 CeO₂-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. SUNDARAVEL, 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 α -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

P2-102 Adsorptive Removal of Methylchlorophenoxypropionic Acid Using Metal-organic Frameworks

Yeo S. SEO, Sung Hwa JHUNG

P2-104 Gas Adsorption in Metal-organic Frameworks Using Surface Acoustic Waves and Computational Methods

German SASTRE, Ben PASCHKE, Dirk VOLKMER

P2-105 Nanoporous Gold/Alumina Platforms as SERS-Active Substrates for Highly Sensitive Monitoring of Biomolecules

Waleed A. EL-SAID, Sherif A. EL-SAFTY

P2-106 Xylene Isomer Separation with Slicelite-1 Membrane under Pressurized Conditions

Motomu SAKAI, Takuya KANEKO, Masahiko MATSUKATA

P2-107 Post-treatment for MFI-Type Zeolite Membrane with Tetraethylorthosilicate in Liquid Phase

Motomu SAKAI, Keisuke TOMAKI, Takuya KANEKO, Masahiko MATSUKATA

P2-108 Very High Flux MFI Membranes for Alcohol Recovery via Pervaporation at High Temperature and Pressure

Liang YU, Danil KORELSKIY, Jonas HEDLUND

P2-109 Zeolite Membranes for Efficient Upgrading of Biogas

Shahpar FOULADVAND, Danil KORELSKIY, Mattias GRAHN, Jonas HEDLUND

P2-110 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, Takafumi 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

Recent Research Reports (RRR)

Monday/ June 29th

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 Zn²⁺-exchanged Zeolite Y (FAU, Si/Al = 1.56) Depending on Zn²⁺ 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

Resent Research Reports (RRR)

Wednesday/ July 1st

RRR2-001 Furfural Synthesis from Bamboo Powder over CHA-type Zeolite in Biphasic Solvents

Kurumi YOSHIDA, Hedataka NANAŌ, 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 TiO₂ with Single Crystalline Framework and Plate-like Nb-Doped TiO₂ 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 CeO₂

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