

## **POSTER SESSION II**

**Thursday June 13, 2002**  
**Montpetit Hall, 19:00-21:00**

### **Mesoporous Silicates**

- 79 Fabrication of Mesoporous Silica Using Block Copolymer Templates  
*Dae-Geun Choi and Seung-Man Yang*
- 134 Reverse Microemulsion Synthesis of Nanostructured Ordered Silica MCM-41  
*Rui Zhao, Xiaoming Zhang, Zhaorong Zhang, Xiaolai Wang and Tong Ren*
- 135 Towards a Better Understanding on the Mechanism of Mesoporous Formation via an Assembly of Cn(EO)m-alkoxydes of Silicon and Transition Metals  
*J.L. Blin, A. Léonard, G. Herrier, G. Philippin and B.L. Su*
- 136 Synthesis of Cubic and Hexagonal Mesoporous Silica Materials in a Single Batch  
*Ralf Köhn, Ulrike Baade and Michael Fröba*
- 137 Hydrothermal Synthesis of Molecular Sieves Using Reverse Microemulsions  
*Matt Yates, T. Mark McCleskey and Kevin C. Ott*
- 138 Synthesis of SBU-MCM-41 mesoporous molecular sieves in the absence of alkali cations  
*Wanping Guo, Lingdong Kong and Quanzhi Li*
- 139 Synthesis and Characterization of SBA-15 Using Different Concentrations of Triblock-Copolymer  
*Lucildes P. Mercuri, Jivaldo R. Matos, and Mietek Jaroniec*
- 140 Preparation of the Helical Ribbon and Double-Layered Structures of the Silica and the TiO<sub>2</sub> Using Organogelator  
*Jong Hwa Jung, Seiji Shinkai and Toshimi Shimizu*

### **Non-Silica Mesoporous Materials**

- 141 Mesoporous Zirconium Oxides: An Investigation of Physico-chemical Synthesis Parameters  
*J.L. Blin, L. Gigot, A. Léonard and B.L. Su*
- 142 Synthesis of Mesoporous Aluminophosphates from a Single-source Molecular Precursor  
*Michael Tiemann and Michael Fröba*
- 143 Synthesis the Mesoporous Silicoaluminophosphate (meso-SAPO)  
*Erica C. de Oliveira and Heloise O. Pastore*
- 144 The Formation of an ALPO Mesophase by Thermal Decomposition of CTAB Surfactant. A Combined FTIR and DR-NIR Spectroscopic Study  
*Enrica Gianotti, Erica C. Oliveira, Valeria Dellarocca, Salvatore Coluccia, Heloise O. Pastore and Leonardo Marchese*
- 145 Novel Macroporous Vanadium-Phosphorus-Oxides with Three- Dimensional Arrays of Spherical Voids  
*M.A. Carreon and V.V. Guliants*
- 147 Preparation and XAFS Spectroscopic Characterization of Mesoporous Titania with Surface Area more than 1200 m<sup>2</sup>/g  
*Hideaki Yoshitake, Tae Sugihara and Takashi Tatsumi*
- 148 Alumina Nano-fibers: Synthesis and Application as Catalyst Supports  
*H. Y. Zhu, J Barry and G. Q. Lu*
- 149 Control of Pore Structure of Smectite-type Materials Synthesized with Hydrothermal Method  
*Masayuki Shirai, Kuriko Aoki, Kazuo Torii and Masahiko Arai*
- 150 Mesoporous Tin Phosphate Prepared using Different Cationic Surfactants  
*Nawal Kishor Mal and Masahiro Fujiwara*
- 153 Morphological Variations of mesostructured Aluminophosphate-Based Materials by the Incorporation of Bridged Silsesquioxane  
*T. Kimura*
- 155 Intraframework-Functionalized Mesostructures: a New Paradigm in Metal Ion Adsorbent Design  
*Kazi Zakir Hossain and Louis Mercier*

### Characterization

- 156 Surfactant-assisted Synthesis of Mesoporous Binary  $Ce_xZr_{1-x}O_2$  Nanophases  
*J. A. Wang, J. Salmones and S. Castillo*
- 157 Preparation and Characterization of Nanosized  $TiO_2$  Particles on TS-1  
*Maria Stanciulescu, Jean-Pierre Charland, Gianluigi Botton and James F. Kelly*
- 158 Intercalation of organic molecules into the nanoporous channels of palygorskite  
*W. Kuang, G.A. Facey, M.R. Weir, and C. Detellier*
- 159 Characterization of Polymer Templated Large Pore Regular Mesoporous Materials using Nitrogen and Argon Adsorption-Desorption Isotherms  
*Peter I. Ravikovitch, Dongyuan Zhao, Chengzhong Yu and Alexander V. Neimark*
- 160 Mesoporous Molecular Sieves of MCM-41 Type Modified with Cs, K and Mg - Characterisation of Physico-Chemical Properties  
*Maria Ziolk, Aleksandra Michalska, Jolanta Kujawa and Anna Lewandowska*
- 161 Analysis of Sulfated  $ZrO_2-SiO_2$  Sol-Gel Catalytic Supports by X-Ray Diffraction and  $N_2$  Sorption  
*J. Salmones, P. Bosch, V. H. Lara, J. M. Esparza, C. Felipe, I. Kornhauser and F. Rojas*
- 162 Sorption properties of MCM-41 and hydrothermal stability prepared by pH adjustment and salt addition  
*N. K. Mal, P. Kumar and M. Fujiwara*
- 163 Multicomponent Adsorption Equilibria in MCM-41 using the Headspace Technique  
*Celio L. Cavalcante Jr., Hugo L. B. Buarque, A. Eurico B. Torres and Antonio S. Araujo*
- 164 The Use of Ordered Mesoporous Materials for Improving the Mesopore Size Analysis: Current State and Future  
*Michal Kruk, Mietek Jaroniec and Abdelhamid Sayari*

### Catalytic Applications

- 165 Photocatalytic Ethylene Polymerization over Chromium Containing Mesoporous Molecular Sieves  
*Hiromi Yamashita, Katsuhiro Yoshizawa, Masao Ariyuki, Shinya Higashimoto and Masakazu Anpo*
- 166 Synthesis and Catalytic Application of Mesoporous Sulfated Zirconia  
*Young-Woong Suh and Hyun-Ku Rhee*
- 167 Isopropanol Dehydration over Nanostructured Sulfated MCM-41  
*Antonio S. Araujo, Joana M.F.B. Aquino, Cristiane D.R. Souza and Marcelo J.B. Souza*
- 168 Synthesis and Catalytic Properties of Organically Modified Ti-HMS  
*Y. Yang and A. Sayari*
- 169 Effect of Si/Al Ratio and Pore Size on Cracking Reaction over Mesoporous MCM-41  
*Wen-Hua Chen, Qi Zhao, Hong-Ping Lin, Chung-Yuan Mou and Shang-Bin Liu*
- 170 Synthesis, Characterization and Activity of Pd Mixed Oxides Al-Mg Catalysts  
*C. Calderón, M. Rebolgar, M.A. Valenzuela and J. Salmones*
- 171 Carbon-Carbon Bond Forming Reactions Catalyzed by Meso- and Microporous Silicate-Quaternary Ammonium Composite  
*Yoshihiro Kubota, Yusuke Nishizaki, Hisanori Ikeya, Junko Nagaya and Yoshihiro Sugi*
- 172 Effect of  $SiO_2/Al_2O_3$  Ratio of H-beta Zeolite on the Production Aromatics and Isoparaffins Compounds to obtain High Octane Gasolines  
*J.M. Bautista B., B.L. Medellín R., M.L. Ramírez L., S.D. Arvizu T.*
- 175 n-Butene Isomerization over AEL and ATO-like CrApso Catalysts  
*Anita Zvolinschi, Abdelkrim Azzouz and Neculai Balba*
- 177 Preparation and Characterization of Al-MCM-48 with Adsorption and Catalytic Tests  
*J. Kornatowski, M. Rozwadowski, M. Lezanska and K. Erdmann*