

## Contents (continued from back cover)

Structural characterization and catalytic activity of molybdenum oxide supported zirconia catalysts E.A. El-Sharkawy, A.S. Khder and A.I. Ahmed	128
Towards a green synthesis of isoquinoline: Beckmann rearrangement of <i>E,E</i> -cinnamaldoxime over H-zeolites B. Thomas, U.R. Prabhu, S. Prathapan and S. Sugunan	138
Preparation of mesoporous calcium doped silica spheres with narrow size dispersion and their drug loading and degradation behavior X. Li, L. Zhang, X. Dong, J. Liang and J. Shi	151
Synthesis, characterization and hydrogen storage properties of microporous carbons templated by cation exchanged forms of zeolite Y with propylene and butylene as carbon precursors L. Chen, R.K. Singh and P. Webley	159
Control of hydrocarbon cold-start emissions: A search for potential adsorbents A. Iliyas, M.H. Zahedi-Niaki, M. Eić and S. Kaliaguine	171
Partially graphitic, high-surface-area mesoporous carbons from polyacrylonitrile templated by ordered and disordered mesoporous silicas M. Kruk, K.M. Kohlhaas, B. Dufour, E.B. Celer, M. Jaroniec, K. Matyjaszewski, R.S. Ruoff and T. Kowalewski	178
Crystallographic configurations of water molecules and exchangeable cations in a hydrated natural CHA-zeolite (chabazite) A. Nakatsuka, H. Okada, K. Fujiwara, N. Nakayama and T. Mizota	188
Preparation of mesoporous solids by acid treatment of a porphyritic andesite (wheat-rice-stone) W.-T. Tsai, T.-Y. Su, H.-C. Hsu, K.-Y. Lin, C.-M. Lin and T.-H. Tai	196
Enhanced photoluminescence property of SnO <sub>2</sub> nanoparticles contained in mesoporous silica synthesized with leached talc as Si source H. Yang, C. Du, S. Jin, A. Tang and G. Li	204
Structural control of mesoporous aluminosilicate nanoparticles in a binary surfactant system assisted by hydrolysis and ordered assembly S.-R. Zhai and C.-S. Ha	212
Effect of pretreatment conditions on the catalytic activity of nano-sized TPA/ZrO <sub>2</sub> dispersed in SBA-15 channels in acetylation reactions D.P. Sawant, M. Hartmann and S.B. Halligudi	223
Modifying the porosity of SBA-15 silicas by post-synthesis basic treatments V. Escax, E. Delahaye, M. Impéror-Clerc, P. Beaunier, M.-D. Appay and A. Davidson	234
Synthesis, surface and crystal structure investigation of the large zeolite beta crystal J. Sun, G. Zhu, Y. Chen, J. Li, L. Wang, Y. Peng, H. Li and S. Qiu	242
Effects of aging on the synthesis and performance of silicalite membranes on silica tubes without seeding H. Chen, C. Song and W. Yang	249
Solid state fluorescence of a 3,4,9,10-perylenetetracarboxylic diimide derivative encapsulated in the pores of mesoporous silica MCM-41 F.L. de Castro, J.G. Santos, G.J. Turolla Fernandes, A.S. de Araújo, V.J. Fernandes Jr., M.J. Politi and S. Brochsztain	258
Synthesis and evaluation of iron-containing ordered mesoporous carbon (FeOMC) for arsenic adsorption Z. Gu, B. Deng and J. Yang	265
Effects of aging and drying conditions on the structural and textural properties of silica gels J. Estella, J.C. Echeverría, M. Laguna and J.J. Garrido	274
Probing pore structure of microporous and mesoporous molecular sieves by quasi-equilibrated temperature programmed desorption and adsorption of <i>n</i> -nonane W. Makowski and P. Kuśtrowski	283
Low density porous carrier based conceptual drug delivery system P. Sher, G. Ingavle, S. Ponrathnam and A.P. Pawar	290
The crystal structure of zeolite barrerite dehydrated in air at 400–450 °C M. Sacerdoti	299

(continued on inside page)