

Contents

Vol. 237, Nos. 1–2

Characterization and reactivity of stannum modified titanium silicalite TS-1 catalysts for transesterification of dimethyl oxalate with phenol X. Ma (Tianjin, China), J. Gong (Tianjin, China and Austin, TX, USA), S. Wang, F. He, H. Guo, X. Yang and G. Xu (Tianjin, China) . . .	1
Coupling the deoxygenation of benzoic acid with the oxidation of propylene on a Co molybdate catalyst F. Dury, S. Meixner, D. Clément and E.M. Gaigneaux (Louvain-la-Neuve, Belgium)	9
Highly selective isomerization of <i>N</i> -allylamines catalyzed by ruthenium and rhodium complexes S. Krompiec, M. Pigulla, M. Krompiec (Gliwice, Poland), B. Marciniak and D. Chadyniak (Poznan, Poland)	17
Effect of metallation protocol on the preparation and performance of silica-immobilized Ti CGC-inspired ethylene polymerization catalysts M.W. McKittrick, K. Yu and C.W. Jones (Ferst Dr. Atlanta, GA, USA)	26
Density functional theory calculations on various M/ZSM-5 zeolites: Interaction with probe molecule H ₂ O and relative hydrothermal stability predicted by binding energies G. Yang, Y. Wang, D. Zhou, X. Liu, X. Han and X. Bao (Dalian, PR China)	36
Organic–inorganic hybrid supported zirconocene catalysts for ethylene polymerization Y. Guo (Changchun, Beijing, China), X. Zhang and W. Dong (Changchun, China)	45
Degradation of methylsulfuron methyl by heterogeneous photocatalysis on TiO ₂ in aqueous suspensions: Kinetic and analytical studies S. Rafqah (El Jadida, Morocco), P. Wong-Wah-Chung (Aubière, France), A. Aamili (El Jadida, Morocco) and M. Sarakha (Aubière, France)	50
Novelties of selective synthesis of 3-methyl-4'-nitro-diphenyl ether under solid–liquid phase transfer catalysis G.D. Yadav and S.A. Purandare (Mumbai, India)	60
Hydrogenation of edible oil over Pd catalysts: A combined theoretical and experimental study M.B. Fernández, G.M. Tonetto, G.H. Crapiste, M.L. Ferreira and D.E. Damiani (Bahía Blanca, Argentina)	67
FTIR study on deactivation of sulfonyl chloride functionalized ionic materials as dual catalysts and media for Beckmann rearrangement of cyclohexanone oxime Z. Du (Lanzhou, Beijing, P.R. China), Z. Li, Y. Gu, J. Zhang and Y. Deng (Lanzhou, P.R. China)	80
Asymmetric cationic methyl pyridyl and pentafluorophenyl porphyrin encapsulated in zeolites: A cytochrome P-450 model F.C. Skrobot, I.L.V. Rosa, A.P.A. Marques, P.R. Martins (São Paulo, Brazil), J. Rocha, A.A. Valente (Aveiro, Portugal) and Y. Iamamoto (São Paulo, Brazil)	86
Sulfated zirconia as an efficient catalyst for organic synthesis and transformation reactions B.M. Reddy, P.M. Sreekanth and P. Lakshmanan (Hyderabad, India)	93
Photocatalytic self-cleaning of modified cotton textiles by TiO ₂ clusters attached by chemical spacers K.T. Meilert, D. Laub and J. Kiwi (Lausanne, Switzerland)	101
Kinetics of bifunctional isomerization over carbides (Mo, W) A.-F. Lamic, T.L.H. Pham, C. Potvin, J.-M. Manoli and G. Djéga-Mariadassou (Paris, France)	109
Ammonium complex of niobium as a precursor for the hydrothermal preparation of cellulose acetate/Nb ₂ O ₅ photocatalyst A.G.S. Prado, E.A. Faria, J.R. SouzaDe and J.D. Torres (Distrito Federal, Brazil)	115
Polyvinyl chloride–polyethylene–polyamine supported palladium complexes as high efficient and recyclable catalysts for Heck reaction Y. Cui and L. Zhang (Kaifeng, PR China)	120
Sulfamide-amine alcohol catalyzed enantioselective alkynylation of aromatic ketones J. Mao, B. Wan, F. Wu and S. Lu (Dalian, PR China)	126
Synthesis of nanoparticle Ce–Mg–O mixed oxide as efficient support for methane oxidation M. Chen, H. Zheng, C. Shi, R. Zhou and X. Zheng (Hangzhou, PR China)	132
Alkylation of benzene with α -olefins over zirconia supported 12-silicotungstic acid D.P. Sawant and S.B. Halligudi (Pune, India)	137
A highly efficient catalyst for the esterification of acetic acid using <i>n</i> -butyl alcohol B.R. Jermy and A. Pandurangan (Chennai, India)	146
A new environmentally friendly method for the synthesis of calix(4)pyrroles over molecular sieve catalysts M. Radha Kishan (Hyderabad, India), V. Radha Rani (Ohio, OH, USA), S.J. Kulkarni (Hyderabad, India) and K.V. Raghavan	155
Ruthenium-catalyzed allylation reaction in ionic liquid C. Hubert, J.-L. Renaud, B. Demerseman, C. Fischmeister and C. Bruneau (Rennes, France)	161
Catalytically active species in new metathesis systems [W ⁿ⁺ (Mo ⁿ⁺)–ionic liquid–olefin]: A quantitative ESR study A.V. Kucherov, A.V. Vasnev, A.A. Greish and L.M. Kustov (Moscow, Russia)	165

Effect of magnesia on alumina-supported cobalt Fischer–Tropsch synthesis catalysts Y. Zhang, H. Xiong, K. Liew and J. Li (Wuhan, China)	172
Mesostructured CeO ₂ and Pd/CeO ₂ nanophases: Templated synthesis, crystalline structure and catalytic properties J.H. Zhang, Y.Q. Yang, J.M. Shen (Henan, PR China) and J.A. Wang (Mexico City, Mexico)	182
Generation of 4,6-dimethyl-5-[2-(2-methylprop-1-enyl)-1 <i>H</i> -benzimidazol-1-yl]pyrimidine-2(5 <i>H</i>)-thiones under kinetically controlled phase transfer catalysis conditions P. Sharma, A. Kumar and M. Sharma (Indore, India)	191
Effect of operating parameters on microwave assisted photocatalytic degradation of azo dye X-3B with grain TiO ₂ catalyst X. Zhang, Y. Wang and G. Li (Beijing, China)	199
Metal surface adsorbed clusters: Structure and dynamics J.R. Sánchez (Mar del Plata, Argentina)	206
Highly efficient palladium-catalyzed Suzuki–Miyaura cross-coupling of aryl bromides using 2-(diphenylphosphino) benzaldoxime ligand L. Xu, D. Zhu, F. Wu, R. Wang and B. Wan (Dalian, PR China)	210
Dynamics and characterization of an innovative Raschig rings–TiO ₂ composite photocatalyst P. Raja, M. Bensimon, A. Kulik, R. Foschia, D. Laub (Lausanne, Switzerland), P. Albers (Hanau, Germany), R. Renganathan (Tiruchirappalli, India) and J. Kiwi (Lausanne, Switzerland)	215
Ferric ions doped 5A molecular sieves for the oxidation of HCHO with low concentration in the air at moderate temperatures Y. Xuzhuang (Beijing, PR China and Huhhot, PR China), S. Yuenian (Huhhot, PR China), Y. zhangfu (Beijing, PR China) and Z. Huaiyong (The University of Sydney, Australia)	224
The catalytic properties and mechanism of cyclohexane/DBSA/water microemulsion system for esterification Y. Han and Y. Chu (Changchun, PR China)	232
Selective formation 2,6-diisopropyl naphthalene over mesoporous Al-MCM-48 catalysts T. Krithiga (Chennai, India), A. Vinu (Ibaraki, Japan), K. Ariga (Tsukuba, Japan), B. Arabindoo, M. Palanichamy and V. Murugesan (Chennai, India)	238
Hydroformylation and related reactions of vinylsilanes catalyzed by siloxide complexes of rhodium(I) and iridium(I) E. Mieczyska, A.M. Trzeciak, J.J. Ziólkowski (Wrocław, Poland), I. Kownacki and B. Marciniak (Poznań, Poland)	246
An effective method for the selective synthesis of geminal diacetates (acylals) from aromatic aldehydes using alumina-supported InCl ₃ M. Salavati-Niasari and S. Hydarzadeh (Kashan, Iran)	254
Synthesis and evaluation of a range of enantiopure β-aminoalcohols derived from tartaric acid for asymmetric hydrogen transfer reduction of prochiral ketones K. Aboulaala (Villeurbanne, France and Rabat, Morocco), C. Goux-Henry, D. Sinou (Villeurbanne, France), M. Safi (Mohammedia, Morocco) and M. Soufiaoui (Rabat, Morocco)	259
Volume contents	267