

Contents

Vol. 259, Nos. 1–2

Adsorption and photosensitized oxidation of sulfide ions on aluminum tetrasulfophthalocyanine-loaded anionic resin	1
A. Sun, Z. Xiong and Y. Xu (Zhejiang, China)	
Highly efficient and stable palladium/imidazolium salt-phosphine catalysts for Suzuki–Miyaura cross-coupling of aryl bromides	7
J.-C. Shi (Dalian, China and Fuzhou, China), P.-Y. Yang (Dalian, China), Q. Tong, Y. Wu and Y. Peng (Fuzhou, China)	
Study on kinetics and mechanism of mononuclear rare earth metal complexes in promoting the hydrolysis of <i>p</i> -nitrophenyl phosphate (NPP)	11
H. Lin, Q. Liu and H. Lin (Tianjin, PR China)	
Olefins isomerization by hydride-complexes of ruthenium	17
C.J. Yue, Y. Liu and R. He (Liaoning, China)	
Diiron(III) oxo-bridged complexes with BPMEN and additional monodentate or bidentate ligands: Synthesis and reactivity in olefin epoxidation with H ₂ O ₂	24
S. Taktak, S.V. Kryatov, T.E. Haas and E.V. Rybak-Akimova (Medford, MA, USA)	
Efficient Suzuki cross-coupling reactions using bulky phosphines	35
M. Joshaghani (Kermanshah, Iran and Liverpool, UK), E. Faramarzi, E. Rafiee, M. Daryanavard (Kermanshah, Iran), J. Xiao and C. Baillie (Liverpool, UK)	
Hydroamination of methyl methacrylate catalyzed by cationic palladium diphosphinoazine complexes	41
J. Včelák, J. Čermák, M. Czakóová and J. Storch (Prague, Czech Republic)	
Palladium/1,2-bis(diphenylphosphino) ethane catalysed amination of aryl halides with aliphatic/aromatic amines	46
M.J. Bhanushali, N.S. Nandurkar, M.D. Bhor and B.M. Bhanage (Mumbai, India)	
Sol–gel synthesis of Pt/Al ₂ O ₃ catalysts: Effect of Pt precursor and calcination procedure on Pt dispersion	51
L. Hu, K.A. Boateng and J.M. Hill (Alberta, Canada)	
Synergistic effect of catalyst basicity and reducibility on performance of ternary CeO ₂ -based catalyst for CO ₂ OCM to C ₂ hydrocarbons	61
Istadi and N.A.S. Amin (Johor, Malaysia)	
Selective synthesis of amphiphilic hydroxyalkylethers of disaccharides over solid basic catalysts. Influence of the superficial hydrophilic–lipophilic balance of the catalyst	67
N. Villandier, I. Adam, F. Jérôme, J. Barrault (Poitiers, France), R. Pierre (Villeurbanne, France), A. Bouchu (Thumeries, France), J. Fitremann and Y. Queneau (Villeurbanne, France)	
Suzuki cross-coupling reactions catalyzed by palladium complex of an inexpensive phosphinite, 2-diphenylphosphinoxynaphthyl	78
B. Punji, C. Ganesamoorthy and M.S. Balakrishna (Mumbai, India)	
Tertiary butylation of phenol over hexagonal <i>p</i> 6mm mesoporous aluminosilicates with enhanced acidity	84
J. Huang, L. Xing, H. Wang (Changchun, China), G. Li (Jiangsu, China), S. Wu, T. Wu and Q. Kan (Changchun, China)	
Reduced forms of Rh(III) containing MCM-41 silicas as hydrogenation catalysts for arene derivatives	91
M. Boutros, F. Launay (Paris, France), A. Nowicki (Rennes, France), T. Onfroy, V. Herledan-Semmer (Paris, France), A. Roucoux (Rennes, France) and A. Gédéon (Paris, France)	
Synthesis of 1,8-cineole and 1,4-cineole by isomerization of α -terpineol catalyzed by heteropoly acid	99
E.J. Leão Lana, K.A. da Silva Rocha (Belo Horizonte, Brazil), I.V. Kozhevnikov (Liverpool, UK) and E.V. Gusevskaya (Belo Horizonte, Brazil)	
Enantioselective hydrogenation of 4-(hydroxymethyl)furan-2(5 <i>H</i>)-one derivatives	103
E.S. Bronze-Uhle, M.I. de Sairre, P.M. Donate (Ribeirão Preto, Brazil) and D. Frederico (São Carlos, Brazil)	
Promoted partial oxidation activity of alkali metal added-Co catalysts supported on NaY and NaUSY zeolites in the gas-phase catalytic oxidation of benzyl alcohol	108
D. Nakashima, Y. Ichihashi, S. Nishiyama and S. Tsuruya (Kobe, Japan)	
Efficient catalytic synthesis of optically pure 1,2-azido alcohols through enantioselective epoxide ring opening with HN ₃	116
S.-W. Chen, S.S. Thakur, W. Li, C.-K. Shin, R.B. Kawthekar and G.-J. Kim (Incheon, South Korea)	
Organic base catalyzed <i>O</i> -alkylation of phenols under solvent-free condition	121
X. Bu, H. Jing, L. Wang, T. Chang, L. Jin and Y. Liang (Gansu, China)	
A novel polymeric chiral salen Mn(III) complex as solvent-regulated phase transfer catalyst in the asymmetric epoxidation of styrene	125
R. Tan, D. Yin, N. Yu, L. Tao, Z. Fu and D. Yin (Hunan, PR China)	
Syntheses of iron, cobalt, chromium, copper and zinc complexes with bulky bis(imino)pyridyl ligands and their catalytic behaviors in ethylene polymerization and vinyl polymerization of norbornene	133
J. Chen, Y. Huang, Z. Li, Z. Zhang, C. Wei, T. Lan and W. Zhang (Fujian, PR China)	

Synthesis and catalytic activity of perfluoroalkylated pyridine–palladium(II) complex toward olefin hydrogenation in scCO ₂ and conventional organic solvents	142
I. Kani and F. Sisman (Eskisehir, Turkey)	
Preparation of H ₃ PMo ₁₂ O ₄₀ catalyst immobilized on surface modified mesostructured cellular foam (SM-MCF) silica and its application to the ethanol conversion reaction	142
H. Kim, J.C. Jung, P. Kim (Seoul, South Korea), S.H. Yeom (Kangwondo, South Korea), K.-Y. Lee and I.K. Song (Seoul, South Korea)	150
Higher olefin hydroformylation in organic/aqueous biphasic system accelerated by double long-chain cationic surfactants	156
H. Fu, M. Li, H. Chen and X. Li (Chengdu, PR China)	
Preparation of 1-octene by the selective tetramerization of ethylene	156
T. Jiang, Y. Ning, B. Zhang, J. Li, G. Wang (Daqing, China), J. Yi and Q. Huang (Beijing, China)	161
Preparation, characterization, and catalytic activity of bismuth molybdate catalysts for the oxidative dehydrogenation of <i>n</i> -butene into 1,3-butadiene	161
J.C. Jung, H. Kim (Seoul, South Korea), A.S. Choi, Y.-M. Chung, T.J. Kim, S.J. Lee, S.-H. Oh (Daejeon, South Korea) and I.K. Song (Seoul, South Korea)	166
Catalytic reduction of N ₂ O and NO ₂ with methane over sol–gel palladium-based catalysts	171
N. Oktar, J. Mitome, E.M. Holmgreen and U.S. Ozkan (Columbus, OH, USA)	
Chiral cationic diamidophosphite: Novel effective ligand for Pd-catalysed enantioselective allylic substitution	171
S.E. Lyubimov, V.A. Davankov (Moscow, Russia), M.G. Maksimova (Ryazan, Russia), P.V. Petrovskii (Moscow, Russia) and K.N. Gavrilov (Ryazan, Russia)	183
Characterization of new Co and Ru on α-WC catalysts for Fischer-Tropsch reaction. Influence of the carbide surface state	183
A. Griboval-Constant, J.-M. Giraudon, I. Twagishema, G. Leclercq (Villeneuve D'Ascq, France), M.E. Rivas, J. Alvarez, M.J. Pérez-Zurita and M.R. Goldwasser (Caracas, Venezuela)	187
Selective and efficient C–H oxidation of alkanes with hydrogen peroxide catalyzed by a manganese(III) Schiff base complex	187
H.R. Mardani and H. Golchoubian (Babolsar, Iran)	
Catalytic synthesis of 2,3-dihydro-1 <i>H</i> -1,5-benzodiazepines by ferric perchlorate	197
M.M. Heravi, V. Zadsirjan, F.K. Behbahani and H.A. Oskooie (Tehran, Iran)	201
Aryl Grignard cross-coupling of aryl chlorides catalysed by new, highly active phosphine/imidazolium nickel(II) complexes	205
J. Wolf, A. Labande, M. Natella, J.-C. Daran and R. Poli (Toulouse, France)	
Preyssler heteropolyacid [NaP ₅ W ₃₀ O ₁₁₀] ¹⁴⁻ , as a new, green and recyclable catalyst for the synthesis of [1,2,4]triazino[4,3-b][1,2,4,5]tetrazines	213
M.M. Heravi (Tehran, Iran), F.F. Bamoharram (Mashhad, Iran), G. Rajabzadeh, N. Seifi and M. Khatami (Iran)	
Combination and interaction of ammonia synthesis ruthenium catalysts	213
Q.-C. Xu, J.-D. Lin, J. Li, X.-Z. Fu, Z.-W. Yang, W.-M. Guo and D.-W. Liao (Xiamen, People's Republic of China)	218
Nickel modified ultrananosized diamonds and their application as catalysts in methanol decomposition	223
T. Tsoncheva, V. Mavrodinova, L. Ivanova, M. Dimitrov, S. Stavrev and C. Minchev (Sofia, Bulgaria)	
Hydrocarboxylation of olefins using an amphiphilic palladium catalyst, activity and recycling properties. NMR identification of some reaction intermediates	223
M. Karlsson, A. Ionescu and C. Andersson (Lund, Sweden)	
Electrochemically assisted photocatalytic degradation of Orange II: Influence of initial pH values	231
G. Li, J. Qu, X. Zhang, H. Liu and H. Liu (Beijing, China)	238
Preparation, characterization and catalytic behavior of SnO ₂ supported Au catalysts for low-temperature CO oxidation	245
S. Wang, J. Huang, Y. Zhao, S. Wang, X. Wang, T. Zhang, S. Wu, S. Zhang and W. Huang (Tianjin, China)	
An eco-friendly procedure for the synthesis of polysubstituted quinolines under aqueous media	245
M.A. Zolfogol (Hamadan, Iran), P. Salehi (Tehran, Iran), A. Ghaderi, M. Shiri and Z. Tanbakouchian (Hamadan, Iran)	253
Influence of clay binder on the liquid phase hydroisomerization of <i>n</i> -octane over palladium-containing zeolite catalysts	253
A. De Lucas, P. Sánchez, A. Fínez, M.J. Ramos and J.L. Valverde (Ciudad Real, Spain)	
Iminoarylphosphites with ferrocenyldiene and cymantrenyldiene fragments: Coordination properties and use in palladium-catalysed asymmetric allylic substitution	259
K.N. Gavrilov (Ryazan, Russia), V.N. Tsarev (Moscow, Russia), M.G. Maksimova (Ryazan, Russia), O.G. Bondarev (Mülheim an der Ruhr, Germany), E.A. Rastorguev (Ryazan, Russia), S.E. Lyubimov, P.V. Petrovskii and V.A. Davankov (Moscow, Russia)	267
Improved quantum yield for photocatalytic hydrogen generation under visible light irradiation over eosin sensitized TiO ₂ —Investigation of different noble metal loading	267
Z. Jin, X. Zhang, G. Lu and S. Li (Lanzhou, PR China)	
Effect of the Brønsted acidity on the behavior of CO ₂ methanol reaction	275
L.A. Allouai (Laghouat, Algeria) and A. Aouissi (Riyadh, KSA)	
Acyclic amines as ancillary ligands in Ru-based catalysts for ring-opening metathesis polymerization. Probing the electronic and steric aspects of cyclic and acyclic amines	281
J.M.E. Matos and B.S. Lima-Neto (São Carlos, Brazil)	
Transesterification of dimethyl carbonate and phenol to diphenyl carbonate catalyzed by samarium diiodide	286
H. Niu, H. Guo (Chengdu, China and Beijing, China), J. Yao, Y. Wang and G. Wang (Chengdu, China)	292
Pt-catalyzed oxidative carbonylation of methane to acetic acid in sulfuric acid	296
M. Zerella and A.T. Bell (Berkeley, CA, USA)	
Effect of the <i>cis</i> - and <i>trans</i> -[1,2-bis(diphenylphosphino)ethylene] ligands in the properties of diphosphine–poly(pyridyl) complexes of ruthenium(II). Application to electrocatalytic oxidations of organic compounds	296
E.M. Sussuchi, A.A. de Lima and W.F. De Giovani (São Paulo, Brazil)	302
Structural changes of vanadium–molybdenum–tungsten mixed oxide catalysts during the selective oxidation of acrolein to acrylic acid	309
L. Giebel, P. Kampe, A. Wirth, A.H. Adams, J. Kunert, H. Fuess and H. Vogel (Darmstadt, Germany)	
Catalytic activity of Jacobsen catalyst encapsulated in an alumina matrix by the sol–gel process	309
T.C.O. Mac Leod, D.F.C. Guedes, M.R. Lelo (Ribeirão Preto, Brazil), R.A. Rocha, B.L. Caetano, K.J. Ciuffi (Franca, Brazil) and M.D. Assis (Ribeirão Preto, Brazil)	319

Preparation and evaluation of porous nickel-alumina spheres as catalyst in the production of hydrogen from decomposition of methane R.M. de Almeida, H.V. Fajardo, D.Z. Mezalira, G.B. Nuernberg, L.K. Noda, L.F.D. Probst (Florianópolis, Brazil) and N.L.V. Carreño (Pelotas, Brazil)	328
Volume contents	336