

Contents

Vol. 238, Nos. 1–2

A dimeric molecular precursor [(^t BuO) ₂ Ti{μ-O ₂ Si[OSi(O ^t Bu) ₃] ₂ }] ₂ to Ti(IV)/SiO ₂ catalysts for selective cyclohexene epoxidation R.L. Brutchey, B.V. Mork, D.J. Sirbully, P. Yang and T.D. Tilley (Berkeley, CA, USA)	1
Mechanism on epoxidation of alkenes by peracids: A protonation-promoted pathway and its quantum chemical elucidation H. Shi, Z. Zhang and Y. Wang (Beijing, China)	13
Generation of size-controlled palladium(0) and gold(0) nanoclusters inside the nanoporous domains of gel-type functional resins. Part II: Prospects for oxidation catalysis in the liquid phase C. Burato, P. Centomo, G. Pace, M. Favaro (Padova, Italy), L. Prati (Milano, Italy) and B. Corain (Padova, Italy)	26
Study of La _{2-x} Sr _x CuO ₄ (x = 0.0, 0.5, 1.0) catalysts for NO + CO reaction from the measurements of O ₂ -TPD, H ₂ -TPR and cyclic voltammetry J. Zhu (Changchun, China and Beijing, PR China), Z. Zhao (Beijing, PR China), D. Xiao, J. Li, X. Yang and Y. Wu (Changchun, China)	35
Carbonylation of aryl halides catalyzed by a silica-supported sulfur and phosphine mixed bidentate palladium complex M. Cai (Nanchang, PR China), H. Zhao (Guangzhou, PR China) and Y. Huang (Nanchang, PR China)	41
Immobilization of metalloporphyrins on polystyrene: Efficient catalysts for aerobic oxidation of alcohols R. Naik, P. Joshi and R.K. Deshpande (Pune, India)	46
Organotin-oxomolybdate coordination polymers as catalysts for the epoxidation of cyclooctene M. Abrantes (Oeiras, Portugal), A.A. Valente, I.S. Gonçalves, M. Pillinger (Aveiro, Portugal) and C.C. Romão (Oeiras, Portugal)	51
Palladium-platinum powder catalysts manufactured by colloid synthesis. I. Preparation and characterization B. Veisz (Szeged, Hungary and Budapest, Hungary), L. Tóth (Budapest, Hungary), D. Teschner (Budapest, Hungary and Berlin, Germany), Z. Paál, N. Györfly (Budapest, Hungary), U. Wild and R. Schlögl (Berlin, Germany)	56
TiO ₂ : As a versatile catalyst for the ortho-selective methylation of phenol A.R. Gandhe, J.B. Fernandes (Goa, India), S. Varma and N.M. Gupta (Mumbai, India)	63
An XRD and Fourier-transformed infrared spectroscopy investigation of single and mixed γ-alumina and thorium oxide H.A. Dabbagh, M. Yalfani (Isfahan, Iran) and B.H. Davis (Lexington, KY, USA)	72
Studies on gold nanoparticles supported on iron, cobalt, manganese, and cerium oxide catalytic materials D.B. Akolekar, S.K. Bhargava (Melbourne, Australia), G. Foran (Menai, Australia) and M. Takahashi (Chiba, Japan)	78
Probing Pd–carbon interaction in Pd/C catalysts by EXAFS S.D. Lin, Y.-H. Hsu, P.-H. Jen (Chung-Li, Taiwan) and J.-F. Lee (Hsin-Chu, Taiwan)	88
Spectroscopic and voltametric studies in titanium tris(pyrazolyl)borate catalysts M.P. Gil, J.H.Z. dos Santos, O.L. Casagrande Jr. (Porto Alegre, Brazil), L.M. T. Simplício and Z.N. da Rocha (Salvador, Brazil)	96
Palladium-platinum powder catalysts manufactured by colloid synthesis. II. Characterization and catalytic tests after oxidizing and reducing treatment N. Györfly, L. Tóth (Budapest, Hungary), M. Bartók, J. Ocskó (Szeged, Hungary), U. Wild, R. Schlögl (Berlin, Germany), D. Teschner (Budapest, Hungary and Berlin, Germany) and Z. Paál (Budapest, Hungary)	102
Organoiridium compounds with substituted phenantrolines as alkynes polymerization catalysts S. Filipuzzi and E. Farnetti (Trieste, Italy)	111
Preparation of lanthana-doped titania nanoparticles with anatase mesoporous walls and high photocatalytic activity T. Peng, D. Zhao, H. Song (Wuhan, China) and C. Yan (Beijing, China)	119
Relevance of the Co _{1-x} Ni _x WO ₄ wolframite-type mixed oxide compositions on the synthesis and catalytic properties of W-based carbides S.L. González-Cortés, T.-C. Xiao, P.M.F.J. Costa, S.M.A. Rodulfo-Baechler and M.L.H. Green (Oxford, UK)	127
A note on micro- and mesopores in the walls of SBA-15 and hysteresis of adsorption isotherms C.G. Sonwane and P.J. Ludovice (Atlanta, GA, USA)	135
Chemoselective and convenient preparation of 1,1-diacetates from aldehydes, mediated by solid lithium perchlorate under solvent-free conditions A. Ziyaei, N. Azizi and M.R. Saidi (Tehran, Iran)	138
Correlation of oxidation states of surface chromium species with ethylene polymerization activity for Phillips CrO _x /SiO ₂ catalysts modified by Al-alkyl cocatalyst B. Liu (Ishikawa, Japan), P. Šindelář (Ishikawa, Japan and Brno, Czech Republic), Y. Fang, K. Hasebe and M. Terano (Ishikawa, Japan)	142
Preparation of TiO ₂ -ZSM-5 zeolite for photodegradation of EDTA R.M. Mohamed, A.A. Ismail, I. Othman and I.A. Ibrahim (Cairo, Egypt)	151

Direct synthesis of dimethyl carbonate on H ₃ PO ₄ modified V ₂ O ₅ X.L. Wu, M. Xiao, Y.Z. Meng (Guangzhou, PR China) and Y.X. Lu (Singapore, Singapore)	158
Ionic liquid structure effect upon reactivity of toluene carbonylation: 1. Organic cation structure E.J. Angueira and M.G. White (Atlanta, GA, USA)	163
Heterogeneous enantioselective epoxidation catalyzed by Mn(salen) complexes grafted onto mesoporous materials by phenoxy group H. Zhang, S. Xiang (Dalian, China), J. Xiao (Dalian, China and Liverpool, UK) and C. Li (Dalian, China)	175
Characterization and catalytic properties of tin-containing mesoporous silicas prepared by different methods X. Wang, H. Xu, X. Fu, P. Liu (Fuzhou, PR China), F. Lefebvre and J.-M. Basset (Villeurbanne, France)	185
Efficient azo dye degradation by hydrogen peroxide oxidation with metalloporphyrins as catalysts A.C. Serra (Figueira da Foz, Portugal), C. Docal and A.M. d'A. Rocha Gonsalves (Coimbra, Portugal)	192
Palladium-catalysed telomerization of butadiene with aldoses: A convenient route to non-ionic surfactants based on controlled reactions A. Bessmertnykh, F. Hénin and J. Muzart (Reims, France)	199
Binary cerium(IV) <i>tert</i> -butoxides-dialkylmagnesium systems: Radical versus coordinative polymerization of styrene Y. Sarazin, T. Chenal, A. Mortreux, H. Vezin (Villeneuve d'Ascq, France) and J.-F. Carpentier (Rennes, France)	207
Oxidation of cyclohexene with <i>tert</i> -butylhydroperoxide and hydrogen peroxide catalyzed by Cu(II), Ni(II), Co(II) and Mn(II) complexes of <i>N,N'</i> -bis-(α -methylsalicylidene)-2,2-dimethylpropane-1,3-diamine, supported on alumina M. Salavati-Niasari, P. Salemi and F. Davar (Kashan, Iran)	215
Esterification of 1° and 2° alcohol using an ecofriendly solid acid catalyst comprising 12-tungstosilicic acid and hydrous zirconia N. Bhatt and A. Patel (Vadodara, India)	223
Vanadium(III) chloride: A mild and efficient catalyst for the chemoselective deprotection of acetonides G. Sabitha, G.S.K.K. Reddy, K.B. Reddy, N.M. Reddy and J.S. Yadav (Hyderabad, India)	229
Effect of the alkoxy ligands on ethylene polymerization by TpTiCl ₂ (OR) complexes A. Karam, E. Casas, E. Catarí (Caracas, Venezuela), S. Pekerar, A. Albormoz (IVIC, Venezuela) and B. Méndez (Venezuela, Venezuela)	233
Study of the methane combustion and TPR/TPO properties of Pd/Ce-Zr-M/Al ₂ O ₃ catalysts with M = Mg, Ca, Sr, Ba B. Yue, R. Zhou (Hangzhou, PR China), Y. Wang (Jinhua, PR China) and X. Zheng (Hangzhou, PR China)	241
Volume contents	250