

Contents

Vol. 260, Nos. 1–2

A novel N-doped TiO ₂ with high visible light photocatalytic activity Y. Wang, C. Feng, Z. Jin, J. Zhang, J. Yang and S. Zhang (Kaifeng, PR China)	1
Hydrogenation of nitrobenzenes catalyzed by platinum nanoparticle core-polyaryl ether trisacetic acid ammonium chloride dendrimer shell nanocomposite P. Yang, W. Zhang, Y. Du and X. Wang (Suzhou, China)	4
Synthesis and catalytic properties in olefin epoxidation of chiral oxazoline dioxomolybdenum(VI) complexes S.M. Bruno, B. Monteiro, M.S. Balula (Aveiro, Portugal), F.M. Pedro, M. Abrantes (Garching bei München, Germany), A.A. Valente, M. Pillinger, P. Ribeiro-Claro (Aveiro, Portugal), F.E. Kühn (Garching bei München, Germany and Sacavém, Portugal) and I.S. Gonçalves (Aveiro, Portugal)	11
Study of the benzylolation of benzene and other aromatics by benzyl chloride over transition metal chloride supported mesoporous SBA-15 catalysts K. Bachari and O. Cherifi (Alger, Algérie)	19
Effects of mechanochemical treatment to the vanadium phosphate catalysts derived from VOPO ₄ ·2H ₂ O Y.H. Taufiq-Yap, C.K. Goh (Selangor, Malaysia), G.J. Hutchings, N. Dummer and J.K. Bartley (Cardiff, UK)	24
A convenient highly stereoselective synthesis of allyl amides from Baylis–Hillman adducts using Amberlyst-15 as a heterogeneous reusable catalyst B. Das, A. Majhi, J. Banerjee and N. Chowdhury (Hyderabad, India)	32
Liquid phase mononitration of chlorobenzene over WO ₃ /ZrO ₂ : A study of catalyst and reaction parameters K.M. Parida, P.K. Pattayak and P. Mohapatra (Bhubaneswar, India)	35
Variable catalytic behavior of Nb, Mo, Ta, W, and Re halide clusters: Isomerization of alkynes to conjugated dienes under nitrogen and hydrogenation to alkenes under hydrogen S. Kamiguchi (Saitama, Japan), S. Takaku, M. Kodomari (Tokyo, Japan) and T. Chihara (Saitama, Japan)	43
SBA-15 supported HPW: Effective catalytic performance in the alkylation of phenol G.S. Kumar, M. Vishnuvarthan, M. Palanichamy and V. Murugesan (Chennai, India)	49
Characterizations and photocatalytic activity of nanocrystalline La _{1.5} Ln _{0.5} Ti ₂ O ₇ (Ln = Pr, Gd, Er) solid solutions prepared via a polymeric complex method Z. Li, H. Xue, X. Wang and X. Fu (Fuzhou, PR China)	56
Zr-TUD-1: A novel heterogeneous catalyst for the Meerwein–Ponndorf–Verley reaction A. Ramanathan (Delft, The Netherlands and Daejeon, Republic of Korea), D. Klomp, J.A. Peters and U. Hanefeld (Delft, The Netherlands)	62
Tris(pyrazolyl)methane–chromium(III) complexes as highly active catalysts for ethylene polymerization I. García-Orozco, R. Quijada, K. Vera and M. Valderrama (Santiago, Chile)	70
Synthesis of 8-aryl-1 <i>H</i> -pyrazolo[4,3- <i>e</i>][1,2,4]triazolo[4,3- <i>a</i>] pyrimidine-4(5 <i>H</i>)-imine by using the Preyssler's anion [NaP ₅ W ₃₀ O ₁₁₀] ¹⁴⁻ as a green and eco-friendly catalyst N. Seifi (Mashhad, Iran), M.H. Zahedi-Niaki, M. Reza Barzegari (Quebec, Canada), A. Davoodnia, R. Zhiani (Mashhad, Iran) and A.A. Kaju (Mashhad, Iran)	77
Development of chromium-free iron-based catalysts for high-temperature water-gas shift reaction S. Natesakhawat, X. Wang, L. Zhang and U.S. Ozkan (Columbus, OH, USA)	82
Hydroformylation of propylene in supercritical CO ₂ + H ₂ O and supercritical propylene + H ₂ O Z. Jingchang, W. Hongbin, L. Hongtao and C. Weiliang (Beijing, China)	95
Mild and convenient one pot synthesis of Schiff bases in the presence of P ₂ O ₅ /Al ₂ O ₃ as new catalyst under solvent-free conditions H. Naeimi, F. Salimi and K. Rabiei (Kashan, Islamic Republic of Iran)	100
A new route for isoquinolines catalyzed by palladium C.S. Cho and D.B. Patel (Daegu, South Korea)	105
One-step conversion of <i>n</i> -butane to isobutene over H-beta supported Pt and Pt,M (M = Cu, In, Sn) catalysts: An investigation on the role of the second metal S. Scirè, G. Burgio, C. Crisafulli and S. Minicò (Catania, Italy)	109
Factors influencing decomposition of H ₂ O ₂ over supported Pd catalyst in aqueous medium V.R. Choudhary, C. Samanta (Pune, India) and T.V. Choudhary (Bartlesville, OK, USA)	115
Cu-incorporated mesoporous materials: Synthesis, characterization and catalytic activity in phenol hydroxylation H. Tang, Y. Ren, B. Yue, S. Yan and H. He (Shanghai, PR China)	121

Asymmetric multicomponent copper catalyzed synthesis of chiral propargylamines F. Colombo, M. Benaglia, S. Orlandi and F. Uselli (Milano, Italy)	128
Immobilization and activation of 2,6-bis(imino)pyridyl Fe, Cr and V precatalysts using a $MgCl_2/AlR_n(OEt)_{3-n}$ support: Effects on polyethylene molecular weight and molecular weight distribution R. Huang, N. Kukalyekar, C.E. Koning and J.C. Chadwick (Eindhoven, The Netherlands)	135
Oxidative dehydrogenation of ethane to ethylene over NiO loaded on high surface area MgO K.-I. Nakamura, T. Miyake, T. Konishi and T. Suzuki (Osaka, Japan)	144
Characterization of $PdO/Ce_{0.8}Y_{0.2}O_{1.9}$ catalysts for carbon monoxide and methane oxidation M.-F. Luo, Z.-Y. Pu, M. He, J. Jin and L.-Y. Jin (Jinhua, China)	152
Structure and redox properties of $Ce_xPr_{1-x}O_{2-\delta}$ mixed oxides and their catalytic activities for CO, CH_3OH and CH_4 combustion M.-F. Luo, Z.-L. Yan and L.-Y. Jin (Jinhua, China)	157
Catalytic activity of manganese(III)-oxazoline complexes in urea hydrogen peroxide epoxidation of olefins: The effect of axial ligands M. Bagherzadeh, R. Latifi and L. Tahsini (Tehran, Iran)	163
Kinetics of gas phase synthesis of ethyl- <i>tert</i> -butyl ether (ETBE) on Wells–Dawson catalyst A. Micek-Ilnicka (Kraków, Poland)	170
A simple and efficient one-pot synthesis of 1,4-dihydropyridines using heterogeneous catalyst under solvent-free conditions M. Maheswara, V. Siddaiah (Tirupati, India), Y.K. Rao, Y.-M. Tzeng (Wufeng, Taiwan) and C. Sridhar (Tirupati, India)	179
Trimerization of isobutene over cation exchange resins: Effect of physical properties of the resins and reaction conditions J.W. Yoon, J.-S. Chang, H.-D. Lee, T.-J. Kim and S.H. Jung (Daejeon, Republic of Korea)	181
Wells–Dawson tungsten heteropolyacid-catalyzed reactions of benzylic alcohols, influence of the structure of the substrate A. Tarlani (Tehran, Iran and Reims, France), A. Riahi (Reims, France), M. Abedini, M.M. Amini (Tehran, Iran) and J. Muzart (Reims, France) ...	187
The first MCM-41-supported thioether palladium(0) complex: A highly active and stereoselective catalyst for Heck arylation of olefins with aryl halides M. Cai, Q. Xu and J. Jiang (Nanchang, PR China)	190
Characterization of a reduced molybdenum-oxo compound derived from an oxo-transfer process under stoichiometric conditions H. Arzoumanian, R. Bakhtchadjian (Marseille, France), R. Atencio, A. Briceno, G. Verde and G. Agrifoglio (Caracas, Venezuela)	197
Novelties of cyanide displacement reaction in ibuprofen amide process by phase transfer catalysis: Solid–liquid versus solid–liquid (omega)–liquid systems G.D. Yadav and J.L. Ceasar (Mumbai, India)	202
Iron(II)–ethylene polymerization catalysts bearing 2,6-bis(imino)pyrazine ligands. Part I. Synthesis and characterization L. Beaufort (Liège, Belgium), F. Benvenuti (Bruxelles, Belgium) and A.F. Noels (Liège, Belgium)	210
Iron(II)–ethylene polymerization catalysts bearing 2,6-bis(imino)pyrazine ligands. Part II. Catalytic behaviour, homogeneous and heterogeneous insights L. Beaufort (Liège, Belgium), F. Benvenuti (Bruxelles, Belgium) and A.F. Noels (Liège, Belgium)	215
Synthesis and activity for ROMP of bidentate Schiff base substituted second generation Grubbs catalysts B. Allaert, N. Dieltiens, N. Ledoux, C. Vercaemst, P. Van Der Voort, C.V. Stevens (Ghent, Belgium), A. Linden (Zurich, Switzerland) and F. Verpoort (Ghent, Belgium)	221
Stabilization mechanism of TiO_2 on flexible fluorocarbon films as a functional photocatalyst Y. Zhiyong (Lausanne, Switzerland and Beijing, China), E. Mielczarski, J.A. Mielczarski (Vandoeuvre les-Nancy, France), D. Laub, L. Kiwi-Minsker, A. Renken and J. Kiwi (Lausanne, Switzerland)	227
Dual-activation protocol for tandem cross-aldol condensation: An easy and highly efficient synthesis of α,α' -bis(aryl/alkylmethylidene)ketones S. Bhagat, R. Sharma and A.K. Chakraborti (S.A.S. Nagar, India)	235
Photocatalytic degradation and kinetics of Orange G using nano-sized $Sn(IV)/TiO_2/AC$ photocatalyst J. Sun (Henan, PR China and Guangzhou, PR China), X. Wang (Henan, PR China), J. Sun (Hangzhou, PR China), R. Sun, S. Sun and L. Qiao (Henan, PR China)	241
Synthesis of nanosized TiO_2 particles in reverse micelle systems and their photocatalytic activity for degradation of toluene in gas phase R. Inaba, T. Fukahori, M. Hamamoto and T. Ohno (Kitakyushu, Japan)	247
Study of an iron-based Fischer–Tropsch synthesis catalyst incorporated with SiO_2 H.-J. Wan (Taiyuan, People's Republic of China and Beijing, People's Republic of China), B.-S. Wu (Taiyuan, People's Republic of China), Z.-C. Tao, T.-Z. Li, X. An (Taiyuan, People's Republic of China and Beijing, People's Republic of China), H.-W. Xiang and Y.-W. Li (Taiyuan, People's Republic of China)	255
Simultaneous degradation of non-emissive and emissive dyes on visible light illuminated TiO_2 surface D. Chatterjee, S. Dasgupta (Durgapur, India), R.S. Dhodapkar and N.N. Rao (Nagpur, India)	264
Liquid-phase hydrogenation of methyl oleate on a $Ni/\alpha-Al_2O_3$ catalyst: A study based on kinetic models describing extreme and intermediate adsorption regimes M.I. Cabrera and R.J. Grau (Santa Fe, Argentina)	269
Heterogeneous catalytic aerobic oxidation behavior of Co–Na heterodinuclear polymeric complex of Salen-crown ether R.-M. Wang (Lanzhou, China), Z.-F. Duan (Lanzhou, China and Xi'an, China), Y.-F. He and Z.-Q. Lei (Lanzhou, China)	280
Chiral imidazole metalloenzyme models: Synthesis and enantioselective hydrolysis for α -amino acid esters H.-Y. Jiang (Chengdu, PR China), C.-H. Zhou (Chongqing, PR China), K. Luo, H. Chen, J.-B. Lan and R.-G. Xie (Chengdu, PR China)	288
Catalytic epoxidation of olefins using MoO_3 and TBHP: Effect of the addition of chiral 2-substituted pyridines on the catalytic rate and asymmetric induction E. da Palma Carreiro, C. Monteiro, Y.-e. Guo, A.J. Burke (Évora, Portugal) and A.I. Rodrigues (Lisboa, Portugal)	295
Modification mechanism of Sn^{4+} for hydrogenation of <i>p</i> -chloronitrobenzene over PVP-Pd/ $\gamma-Al_2O_3$ Q. Xu (Sichuan, PR China and Shaanxi, PR China), X.-M. Liu, J.-R. Chen, R.-X. Li and X.-J. Li (Sichuan, PR China)	299

Corrigendum

Corrigendum to “How catalytic mechanisms reveal themselves in multiple steady-state data: II. An ethylene hydrogenation example” [J. Mol. Catal. A: Chem. 154 (2000) 169–184] P. Ellison, M. Feinberg (Oklahoma, USA), M.-H. Yue (Rahway, NJ, USA) and H. Saltsburg (Medford, MA, USA)	306
Volume contents	307