

## Contents

**Vol. 253, Nos. 1–2**

Sodium metavanadate catalyzed direct hydroxylation of benzene to phenol with hydrogen peroxide in acetonitrile medium M. Jian, L. Zhu, J. Wang, J. Zhang, G. Li and C. Hu (Sichuan, PR China)	1
Effect of calcination temperature on the catalytic activity of zirconia-supported heteropoly acids B.M. Devassy and S.B. Halligudi (Pune, India)	8
$H_{14}[NaP_5W_{30}O_{110}]$ : A heteropoly acid catalyzed acetylation of alcohols and phenols in acetic anhydride M.M. Heravi (Tehran, Iran), F.K. Behbahani (Mashhad, Iran) and F.F. Bamoharram (Tehran, Iran)	16
A comparative study of liquid-phase hydrogenation on Pd/SiO <sub>2</sub> in organic solvents and under pressurized carbon dioxide: Activity change and metal leaching/sintering J. Panpranot, K. Phandinthong, P. Praserthdam (Bangkok, Thailand), M. Hasegawa, S.-i. Fujita and M. Arai (Sapporo, Japan)	20
Spectra and stabilities of $\alpha$ -substituted phthalocyaninatoirons L. Yang, M.-J. Lin, X.-L. Zhu, X.-Z. Xu and J.-D. Wang (Fujian, PR China and Fuzhou, PR China)	25
Enhancement of naphthalene hydrogenation over PtPd/SiO <sub>2</sub> –Al <sub>2</sub> O <sub>3</sub> catalyst modified by gold B. Pawelec, V. La Parola (Madrid, Spain), S. Thomas (Magdeburg, Germany) and J.L.G. Fierro (Madrid, Spain)	30
Characterization and catalytic activity of V <sub>2</sub> O <sub>5</sub> /Al <sub>2</sub> O <sub>3</sub> –TiO <sub>2</sub> for selective oxidation of 4-methylanisole B.M. Reddy, K.N. Rao, G.K. Reddy and P. Bharali (Hyderabad, India)	44
Counterion and additive effects on ethylene coordination and insertion in metallocene catalyst P.G. Belelli and N.J. Castellani (Bahía Blanca, Argentina)	52
Role of catalyst preparation on determining selective sites for hydrogenation of dimethyl adipate over RuSn/Al <sub>2</sub> O <sub>3</sub> A.M. Silva (Rio de Janeiro, Brazil and Campinas, Brazil), O.A.A. Santos (Maringá, Brazil), M.A. Morales, E.M. Baggio-Saitovitch (Rio de Janeiro, Brazil), E. Jordão (Campinas, Brazil) and M.A. Fraga (Rio de Janeiro, Brazil)	62
Liquid phase bromination of phenol. III. Over heteropoly acid (HPA)-impregnated titanium phosphate (TiP) D.P. Das and K.M. Parida (Orissa, India)	70
Benzaldehyde hydrogenation over supported nickel catalysts A. Saadi, R. Merabti, Z. Rassoul (Bab-Ezzouar, Algeria) and M.M. Bettahar (Vandoeuvre-lès-Nancy, France)	79
A new type of ligand derived from N-terminal protected dipeptides in enantioselective addition of phenylacetylene to aromatic ketones at room temperature H.-q. Cai, C. Chen, L. Liu, J.-m. Ni and R. Wang (Lanzhou, China)	86
A simple and facile synthesis of homoallylic amines using silica supported sodium hydrogen sulfate B. Das, B. Ravikanth, K. Laxminarayana and B.V. Rao (Hyderabad, India)	92
Silane/MoO <sub>2</sub> Cl <sub>2</sub> as an efficient system for the reduction of esters A.C. Fernandes and C.C. Romão (Oeiras, Portugal)	96
Preparation, characterization and photocatalytic activity of novel TiO <sub>2</sub> nanoparticle-coated titanate nanorods H. Yu, J. Yu and B. Cheng (Wuhan, PR China)	99
Sulfonic acid functionalized silica: A remarkably efficient heterogeneous reusable catalyst for $\alpha$ -monobromination of carbonyl compounds using <i>N</i> -bromosuccinimide B. Das, K. Venkateswarlu, H. Holla and M. Krishnaiah (Hyderabad, India)	107
Enhanced photocatalytic activity of TiO <sub>2</sub> powder (P25) by hydrothermal treatment J. Yu, H. Yu, B. Cheng, M. Zhou and X. Zhao (Wuhan, PR China)	112
Synthesis of 7-dehydrocholesterol through a palladium catalyzed selective homoannular conjugated diene formation D. Dugas and J.M. Brunel (Marseille, France)	119
Highly accessible catalytic sites on recyclable organosilane-functionalized magnetic nanoparticles: An alternative to functionalized porous silica catalysts N.T.S. Phan and C.W. Jones (Atlanta, GA, USA)	123
The role of the functional group in double bond migration in allylic systems catalysed by ruthenium hydride complexes S. Krompiec (Katowice, Poland), N. Kuźnik (Gliwice, Poland), M. Krompiec, R. Penczek, J. Mrzigod (Katowice, Poland) and A. Tórz (Gliwice, Poland)	132
Activity and selectivity of Pd–Bi/SiO <sub>2</sub> catalysts in the light of mutual interaction between Pd and Bi S. Karski (Łódź, Poland)	147
Novel highly active binuclear neutral nickel and palladium complexes as precatalysts for norbornene polymerization T. Hu, Y.-G. Li (Changchun, China and Beijing, China), Y.-S. Li and N.-H. Hu (Changchun, China)	155

Dehydration of fructose and sucrose into 5-hydroxymethylfurfural in the presence of 1-H-3-methyl imidazolium chloride acting both as solvent and catalyst C. Moreau, A. Finiels and L. Vanoye (Montpellier, France) . . . . .	165
Electro-oxidation of phenol on zeolite/graphite composite electrodes. Part 2. Influence of zeolite type and composition R.H. Carvalho, M.A.N.D.A. Lemos, F. Lemos, J.M.S. Cabral and F.R. Ribeiro (Lisboa, Portugal) . . . . .	170
Retention of the octahedral metal framework of Nb and Mo halide clusters in catalytic decomposition of phenyl acetate to phenol and ketene S. Kamiguchi (Saitama, Japan), T. Mori, M. Watanabe (Tokyo, Japan), A. Suzuki (Ibaraki, Japan and Tokyo, Japan), M. Kodomari (Tokyo, Japan), M. Nomura (Ibaraki, Japan), Y. Iwasawa (Tokyo, Japan) and T. Chihara (Saitama, Japan) . . . . .	176
Gallium-containing mesoporous silicas as a catalyst for alkylation of benzene and other aromatics by benzyl chloride K. Bachari (Alger, Argentina and Bab Ezzouar, Algeria) and O. Cherifi (Bab Ezzouar, Algeria) . . . . .	187
Liquid phase synthesis of ethyl- <i>tert</i> -butyl ether: The relationship between acid, adsorption and catalytic properties of zeolite catalysts N.V. Vlasenko, Yu.N. Kochkin and A.M. Puziy (Kiev, Ukraine) . . . . .	192
Montmorillonite K 10 and montmorillonite KSF as new and reusable catalysts for conversion of amines to <i>N</i> - <i>tert</i> -butylcarbamates S.V. Chankeshwara and A.K. Chakraborti (S.A.S. Nagar, India) . . . . .	198
Alkylation of naphthalene using three different ionic liquids C.G. Blanco, D.C. Banchella and M.D.G. Azpíroz (Oviedo, Spain) . . . . .	203
An efficient synthesis of 4-substituted pyrazolyl-3,4-dihydropyrimidin-2(1H)-(thio)ones catalyzed by Mg(ClO <sub>4</sub> ) <sub>2</sub> under ultrasound irradiation X. Zhang, Y. Li, C. Liu and J. Wang (Urumqi, PR China) . . . . .	207
Synthetic and theoretical study on proline-catalyzed Knoevenagel condensation in ionic liquid Y. Wang, Z.-c. Shang, T.-x. Wu, J.-c. Fan and X. Chen (Hangzhou, China) . . . . .	212
Electrochemical reduction of NAD <sup>+</sup> on a polycrystalline gold electrode A. Damian and S. Omanovic (Montreal, Canada) . . . . .	222
Addition of tetrachloromethane to alkenes catalyzed by copper(I) complexes with <i>N</i> -thioacylamidothiophosphate ligands A. Zazybin, O. Osipova, U. Khusnudinova, I. Aristov, B. Solomonov, F. Sokolov, M. Babashkina and N. Zabirov (Kremlyovskaya, Russian Federation) . . . . .	234
Shape selective synthesis of long-chain linear alkyl benzene (LAB) with AlMCM-41/Beta zeolite composite catalyst A. Bordoloi, B.M. Devassy, P.S. Niphadkar, P.N. Joshi and S.B. Halligudi (Pune, India) . . . . .	239
Cyclic acetals from catalytic addition of diols to terminal alkynes with a cationic iridium complex containing two labile ligands S.y. Kim, C.S. Chin and M.-S. Eum (Seoul, Republic of Korea) . . . . .	245
ZrOCl <sub>2</sub> ·8H <sub>2</sub> O/silica gel as a new efficient and a highly water-tolerant catalyst system for facile condensation of indoles with carbonyl compounds under solvent-free conditions H. Firouzabadi, N. Iranpoor, M. Jafarpour and A. Ghaderi (Shiraz, Iran) . . . . .	249
Synthesis and characterization of xerogel titania modified with Pd and Ni L.M. Martínez T, C. Montes de Correa (Medellín, Colombia), J.A. Odriozola and M.A. Centeno (Sevilla, Spain) . . . . .	252
Selenium-catalyzed carbonylation of nitroarenes to symmetrical 1,3-diarylureas under solvent-free conditions X. Wang, P. Li, X. Yuan and S. Lu (Liaoning, PR China) . . . . .	261
Immobilized ionic liquid/zinc chloride: Heterogeneous catalyst for synthesis of cyclic carbonates from carbon dioxide and epoxides L.-F. Xiao, F.-W. Li, J.-J. Peng and C.-G. Xia (Lanzhou, PR China) . . . . .	265
Cu/Zn-based catalysts improved by adding magnesium for water-gas shift reaction T. Shishido (Tokyo, Japan), M. Yamamoto, I. Atake, D. Li (Higashi-Hiroshima, Japan), Y. Tian (Tokyo, Japan), H. Morioka, M. Honda, T. Sano and K. Takehira (Higashi-Hiroshima, Japan) . . . . .	270
Improved Fe/Mg-Al hydrotalcite catalyst for Baeyer–Villiger oxidation of ketones with molecular oxygen and benzaldehyde T. Kawabata, N. Fujisaki (Higashi-Hiroshima, Japan), T. Shishido (Kyoto, Japan), K. Nomura (Tokyo, Japan), T. Sano and K. Takehira (Higashi-Hiroshima, Japan) . . . . .	279
Volume contents . . . . .	290