



ELSEVIER

Journal of Molecular Catalysis A: Chemical 179 (2002) 311–312

JOURNAL OF
MOLECULAR
CATALYSIS
A: CHEMICAL

www.elsevier.com/locate/molcata

Contents

Vol. 179, Nos. 1–2**Articles****Chemical and metal complex catalysis**

High-pressure photocatalytic reduction of carbon dioxide using $[fac\text{-Re(bpy)(CO)}_3P(O^iPr)_3]^+$ (bpy = 2,2'-bipyridine)	1
H. Hori, K. Koike, Y. Suzuki, M. Ishizuka, J. Tanaka, K. Takeuchi and Y. Sasaki (Tsukuba, Japan)	
Highly active ethylene polymerization catalysts based on titanium complexes having two phenoxy-imine chelate ligands	
S.-i. Ishii, J. Saito, M. Mitani, J.-i. Mohri, N. Matsukawa, Y. Tohi, S. Matsui, N. Kashiwa and T. Fujita (Chiba, Japan)	11
Phase-transfer catalytic reaction of dibromo- <i>o</i> -xylene and 1-butanol in two-phase solution	
M.-L. Wang (Taichung, Taiwan) and Y.-H. Tseng (Chiayi, Taiwan)	17
Comparative study on heme-containing enzyme-like catalytic activities of water-soluble metalloporphyrins	
J.-Y. Liu, X.-F. Li, Z.-X. Guo, Y.-Z. Li, A.-J. Huang and W.-B. Chang (Beijing, China)	27
Ferroxime(II)-catalyzed oxygenation of nitroalkanes by <i>tert</i> -butyl hydroperoxide and its relevance to 2-nitropropane dioxygenase	
J. Kaizer, Z. Gréczi and G. Speier (Veszprém, Hungary)	35
Synthesis, characterization and study of vanadyl tetradeятate Schiff base complexes as catalyst in aerobic selective oxidation of olefins	
D.M. Boghaei and S. Mohebi (Tehran, Iran)	41
Unusual polymerization activities of bulky aluminum alkyl complexes	
X. Bi, D. Wang and Z. Wu (Kansas City, MO, USA)	53
Lithiation of toluene by organolithium compounds activated by lithium polyether alkoxides	
N. Nugay, T. Nugay (Istanbul, Turkey), R. Jerome and Ph. Teyssie (Liege, Belgium)	59
Oxidation of hydrocarbons by O_2 in the presence of $VO(acac)_2$ as catalyst	
L.J. Csányi, K. Jáky and G. Galbács (Szeged, Hungary)	65
Simultaneous production of chirally enriched epoxides and 1,2-diols from racemic epoxides via hydrolytic kinetic resolution (HKR)	
R.I. Kureshy, N.H. Khan, S.H.R. Abdi, S.T. Patel and R.V. Jasra (Bhavnagar, India)	73
Synthesis of α,ω -epoxyaldehydes by hydroformylation of α,ω -epoxyalkenes	
C. Botteghi (Venezia, Italy), M. Marchetti (Sassari, Italy), S. Paganelli (Venezia, Italy) and S. Scognamillo (Sassari, Italy)	79
Modification of polyethylene polydispersity by blending a Ziegler-Natta catalyst with a group of IV-half metallocene or scorpionate complexes	
F. López-Linares, A.D. Barrios, H. Ortega, A. Karam, G. Agrifoglio (Caracas, Venezuela) and E. González (Maracaibo Edo. Zulia, Venezuela)	87
Multidentate phosphanes as ligands in rhodium catalyzed hydroformylation of 1-hexene	
P. Suomalainen (Joensuu, Finland), R. Laitinen (Oulu, Finland), S. Jääskeläinen, M. Haukka (Joensuu, Finland), J.T. Pursiainen (Oulu, Finland) and T.A. Pakkanen (Joensuu, Finland)	93
Enantioselective hydrogenation of exocyclic α,β -unsaturated ketones. Part II. Hydrogenation in the presence of (<i>S</i>)-proline	
G. Fogassy, A. Tungler (Budapest, Hungary), A. Lévai (Debrecen, Hungary) and G. Tóth (Budapest, Hungary)	101
Enantioselective hydrogenation of isophorone with titania supported Pd catalysts modified by (–)-dihydroapovincaminic acid ethyl ester effect of the support and the reduction method	
É. Sípos, G. Farkas, A. Tungler (Budapest, Hungary) and J.L. Figueiredo (Porto, Portugal)	107
Iron perchlorophthalocyanine and tetrasulfophthalocyanine catalyzed oxidation of cyclohexane using hydrogen peroxide, chloroperoxybenzoic acid and <i>tert</i> -butylhydroperoxide as oxidants	
N. Grootboom and T. Nyokong (Grahamstown, South Africa)	113

Structural effects on the NaOCl epoxidation of styrene in micellar media catalysed by amphiphilised Mn(III)metalloporphyrins D. Monti, A. Pastorini, G. Mancini, S. Borocci and P. Tagliatesta (Rome, Italy)	125
Rhodium-catalyzed hydroformylation of allylbenzenes and propenylbenzenes: effect of phosphine and diphosphine ligands on chemo- and regioselectivity A.C. da Silva, K.C.B. de Oliveira, E.V. Gusevskaya and E.N. dos Santos (Belo Horizonte, Brazil)	133
Effects of salts and mixed aqueous-acetonitrile solvent on the rate of alkaline hydrolysis of 4-nitrophthalimide in the presence of cationic micelles M. Niyaz Khan and R. Musa (Kuala Lumpur, Malaysia)	143
Molecular aspects of heterogeneous catalysis	
Heterogenized iron(II) complexes as highly active ethene polymerization catalysts R. Schmidt (Bayreuth, Germany), M. Bruce Welch, S.J. Palackal (Bartlesville, OK, USA) and H.G. Alt (Bayreuth, Germany)	155
<i>p</i> -Cresol autoxidation using CoAPO-5 prepared by microwave heating of the precursor gel: comparison with homogeneous and biphasic reaction schemes using cobalt salt or complex catalysts D.S. Kim, S.H. Chang and W.S. Ahn (Inchon, South Korea)	175
Effect of rare-earth nature on the basic properties of zeolite NaX containing occluded rare-earth species J.M. Lopes and F. Ramôa Ribeiro (Lisbon, Portugal)	185
Photocatalytic activity of hydroxyapatite for methyl mercaptane H. Nishikawa (Gifu, Japan) and K. Omamiuda (Chiba, Japan)	193
Reactivity of the hydrocarbon C–C bonds as a function of the reaction conditions in the conversion of C ₆ alkanes and methylcyclopentane over Rh catalysts D. Teschner (Budapest, Hungary), D. Duprez (Poitiers, France) and Z. Paál (Budapest, Hungary)	201
Phase transformations in the thermoactivated MnO _x –Al ₂ O ₃ catalytic system P.G. Tsyrylnikov (Omsk, Russia), S.V. Tsybulya, G.N. Kryukova, A.I. Boronin, S.V. Koscheev, T.G. Starostina (Novosibirsk, Russia), A.V. Bubnov and E.N. Kudrya (Omsk, Russia)	213
Liquid phase oxidation of anthracene and <i>trans</i> -stilbene over modified mesoporous (MCM-41) molecular sieves N. Srinivas, V. Radha Rani, S.J. Kulkarni and K.V. Raghavan (Hyderabad, India)	221
Advances in homogeneous and heterogeneous catalytic aerobic oxidation of isophorone to ketoisophorone E.F. Murphy and A. Baiker (Zurich, Switzerland)	233
Examination of the surface chemistry of activated carbon on enantioselective hydrogenation of methyl pyruvate over Pt/C catalysts M.A. Fraga, M.J. Mendes and E. Jordão (Campinas, Brazil)	243
Study on alkylation of benzene with ethylene over β-zeolite catalyst to ethylbenzene by in situ IR Y. Du, H. Wang and S. Chen (Beijing, China)	253
Syntheses and catalytic properties of alternating copolymers of poly[4-maleimidopyridyl(<i>p</i> -cymene)dichloro Ru(II)] with γ-methacryloxypropyl trimethoxysilane I. Özdemir (Malatya, Turkey), B. Çetinkaya (İzmir, Turkey), T. Seçkin and S. Köytepe (Malatya, Turkey)	263
Carbonylation of alcohols over Nafion-H, a solid perfluoroalkanesulfonic acid resin catalyst N. Tsumori (Osaka, Japan and Hyogo, Japan), Q. Xu, Y. Souma and H. Mori (Osaka, Japan)	271
The optimization of methanol yield in direct selective oxidation of methane with O ₂ and NO in the presence of Cu-ZnO/Al ₂ O ₃ T. Takemoto (Kyoto, Japan), D. He (Beijing, China), Y. Teng (Kyoto, Japan), K. Tabata and E. Suzuki (Kyoto, Japan and Nara, Japan)	279
Mild hydrogenation of quinoline. 1. Role of reaction parameters M. Campanati, A. Vaccari (Bologna, Italy) and O. Piccolo (Cinisello Balsamo, Italy)	287
Liquid-phase hydrogenation of citral over Ir-supported catalysts P. Reyes (Concepción, Chile), H. Rojas (Tunja, Colombia), G. Pecchi (Concepción, Chile) and J.L.G. Fierro (Madrid, Spain)	293
Author Index	301
Subject Index	305
Volume contents	311