



ELSEVIER

Journal of Molecular Catalysis A: Chemical 191 (2003) 303–304

JOURNAL OF
MOLECULAR
CATALYSIS
A: CHEMICAL

www.elsevier.com/locate/molcata

Contents

Vol. 191, No. 1**Articles*****Organometallic and Biomimetic catalysis***

Chiral 2-(2-phenylthiophenyl)-5,6,7,8-tetrahydroquinolines: new N–S ligands for asymmetric catalysis. Palladium-catalyzed allylic alkylation and copper-catalyzed cyclopropanation reactions G. Chelucci, D. Muroni, G.A. Pinna, A. Saba and D. Vignola (Sassari, Italy)	1
Hydroesterification of cyclohexene using the complex Pd(PPh ₃) ₂ (TsO) ₂ as catalyst precursor. Effect of a hydrogen source (TsOH, H ₂ O) on the TOF and a kinetic study (TsOH: <i>p</i> -toluenesulfonic acid) A. Vavasori, L. Toniolo (Venice, Italy) and G. Cavinato (Padua, Italy)	9
Asymmetric cyclopropanation catalyzed by C ₂ -symmetric bis-(ephedrine)-Cu(II) complexes J. Gao (College Station, TX, USA) and S.H. Zhong (Tianjin, PR China)	23

Ionic catalysis by acids bases and metal ions

Chiral phenanthrolines as ligands for Cu(I)-catalyzed asymmetric allylic oxidation G. Chelucci (Sassari, Italy), A. Iuliano (Pisa, Italy), D. Muroni and A. Saba (Sassari, Italy)	29
A theoretical-experimental study of Wells-Dawson acid. An explanation of their catalytic activity J.E. Sambeth (La Plata, Argentina), G.T. Baronetti (Buenos Aires, Argentina) and H.J. Thomas (La Plata, Argentina)	35

Heterogeneous catalysis

Selective hydrogenolysis of dichlorodifluoromethane on carbon covered alumina supported palladium catalyst S. Chandra Shekar, J. Krishna Murthy, P. Kanta Rao and K.S. Rama Rao (Hyderabad, India)	45
Catalytic behavior of nanoparticle α -PtO ₂ for ethanol oxidation J. Zhensheng (Kaifeng, China and Lanzhou, China), X. Chanjuan, Z. Qingmei (Lanzhou, China), Y. Feng (Beijing, China), Z. Jiazheng and X. Jinzhen (Lanzhou, China)	61
Immobilization of aluminum chloride on MCM-41 as a new catalyst system for liquid-phase isopropylation of naphthalene X.S. Zhao (Singapore, Singapore), M.G.Q. Lu (Brisbane, Australia) and C. Song (University Park, PA, USA)	67
Synthesis and properties of PdSn/Al ₂ O ₃ and PdSn/SiO ₂ prepared by solvated metal atom dispersed method G. Cárdenas, R. Oliva, P. Reyes and B.L. Rivas (Concepcion, Chile)	75
Bismuth as an additive modifying the selectivity of palladium catalysts S. Karski and I. Witońska (Łódź, Poland)	87
Sn-exchanged hydrotalcites as catalysts for clean and selective Baeyer–Villiger oxidation of ketones using hydrogen peroxide U.R. Pillai and E. Sahle-Demessie (Cincinnati, OH, USA)	93
A parametrical embedding method for catalytic modeling F.M. Poveda (Bogota, Colombia), J. Fernandez-Sanz (Sevilla, Spain) and F. Ruette (Caracas, Venezuela)	101
Activity and selectivity of noble metal colloids for the hydrogenation of polyunsaturated soybean oil H.P. Choo, K.Y. Liew (Penang, Malaysia), H. Liu (Beijing, PR China), C.E. Seng, W.A. Kamil Mahmood (Penang, Malaysia) and M. Bettahar (Vandoeuvre-les-Nancy, France)	113
Selective production of hydrogen by partial oxidation of methanol over Cu/Cr catalysts Z. Wang, J. Xi, W. Wang and G. Lu (Lanzhou, PR China)	123
Selective formation of unsymmetric ureas by selenium-catalyzed oxidative-reductive carbonylation with CO J. Mei, Y. Yang, Y. Xue and S. Lu (Dalian, PR China)	135

Acylation of alcohols and amines with carboxylic acids: a first report catalyzed by iron(III) oxide-containing activated carbon B. Sreedhar, V. Bhaskar, Ch. Sridhar, T. Srinivas (Hyderabad, India), L. Kótai and K. Szentmihályi (Budapest, Hungary)	141
Erratum	149
Guide for Authors	151

Vol. 191, No. 2

Articles

Organometallic and Biomimetic catalysis

Synthesis of inorganic MgCl ₂ -alcohol adduct via recrystallization method and its application in supported organometallic catalysts for the polymerization of ethylene with 1-hexene H.S. Cho and W.Y. Lee (Seoul, South Korea)	155
A measure of metallocene catalyst shape asymmetry A.R. Siedle, K.M. Theissen and J. Stevens (St. Paul, MN, USA)	167
Mono, di and tetranuclear ansa zirconocene complexes as catalysts for the homogeneous and heterogeneous polymerization of ethylene H.G. Alt, R. Ernst and I. Böhmer (Bayreuth, Germany)	177

Ionic catalysis by acids bases and metal ions

A review of soluble transition-metal nanoclusters as arene hydrogenation catalysts J.A. Widgren and R.G. Finke (Fort Collins, CO, USA)	187
Carbon monoxide-ethylene copolymerization catalyzed by a Pd(OAc) ₂ /dppp/formic acid system [dppp = 1,3-bis(diphenylphosphino)propane] A. Vavasori (Venice, Italy), G. Cavinato (Padua, Italy) and L. Toniolo (Venice, Italy)	209
Expanded product, plus kinetic and mechanistic, studies of polyoxoanion-based cyclohexene oxidation catalysis: the detection of ~70 products at higher conversion leading to a simple, product-based test for the presence of olefin autoxidation H. Weiner (Fort Collins, CO, USA), A. Trovarelli (Udine, Italy) and R.G. Finke (Fort Collins, CO, USA)	217
Polyoxoanion-supported catalysis: evidence for a P ₂ W ₁₅ Nb ₃ O ₆₂ ⁹⁻ -supported iridium cyclohexene oxidation catalyst starting from [n-Bu ₄ N] ₅ Na ₃ [(1,5-COD)Ir·P ₂ W ₁₅ Nb ₃ O ₆₂] H. Weiner, A. Trovarelli and R.G. Finke (Fort Collins, CO, USA)	253

Heterogeneous catalysis

Ti atom in MFI zeolite framework: a large cluster model study by ONIOM method T. Atoguchi and S. Yao (Chiba, Japan)	281
Hydrogenation of alkenes over palladium and platinum metals supported on a variety of metal(IV) phosphates R.A.W. Johnstone, J.-Y. Liu, L. Lu and D. Whittaker (Liverpool, UK)	289
Author Index	295
Subject Index	297
Volume contents	303