



ELSEVIER

Journal of Molecular Catalysis A: Chemical 171 (2001) 271–272

JOURNAL OF
MOLECULAR
CATALYSIS
A: CHEMICAL

www.elsevier.com/locate/molcata

Contents

Vol. 171, Nos. 1–2**Review*****Chemical and metal complex catalysis***

Radical and non-radical chemistry of the Fenton-like systems in the presence of organic substrates

- F. Gozzo (Milano, Italy) 1

Articles***Chemical and metal complex catalysis***

Studies on new palladium(II) catalyst system for copolymerization of CO with ethylene

- H.-K. Luo (Beijing, People's Republic of China) and D.-G. Li (Lanzhou, People's Republic of China) 23

Radical-initiated oxygenation of flavonols by dioxygen

- J. Kaizer and G. Speier (Veszprém, Hungary) 33

Highly efficient cascade-oxygen-transfer from H₂O₂ to olefins mediated by halogenated carbonyl compounds and metallocoporphyrins

- S. Campestrini and U. Tonellato (Padova, Italy) 37

Multigram scale cobalt catalyzed photochemical methoxycarbonylation of alkenes

- V. Dragojlovic, D.B. Gao and Y.L. Chow (Burnaby, BC, Canada) 43

Spin effects in activation of hydrocarbons . The role of triplet states in catalysis

- B.F. Minaev (Stockholm, Sweden) 53

51V and 13C NMR spectroscopic study of the peroxovanadium intermediates in vanadium catalyzed enantioselective oxidation of sulfides

- K.P. Bryliakov, N.N. Karpshev, S.A. Fominsky, A.G. Tolstikov and E.P. Talsi (Novosibirsk, Russia) 73

Alkylations of benzene in room temperature ionic liquids modified with HCl

- K. Qiao and Y. Deng (Lanzhou, China) 81

Thermoregulated phase transfer ligands and catalysis XIV. Synthesis of *N,N*-dipolyoxyethylene-substituted-4-(diphenylphosphino) benzenesulfonamide (PEO-DPPSA) and the catalytic activity of its rhodium complex in hydroformylation of 1-decene

- J. Jiang, Y. Wang, C. Liu, Q. Xiao and Z. Jin (Dalian, PR China) 85

Iridium-formic acid based system for hydroxycarbonylation without CO gas

- J.-P. Simonato, T. Walter and P. Métivier (Saint Fons, France) 91

Effect of substituents on the Mn(III)Salen catalyzed oxidation of styrene

- A. Zsigmond, A. Horváth and F. Notheisz (Szeged, Hungary) 95

Molecular aspects of heterogeneous catalysis

The adsorption of a series of aromatics in ITQ-1: grand canonical Monte Carlo simulations

- T. Hou, L. Zhu and X. Xu (Beijing, PR China) 103

Cytochrome P-450 model reactions: a kinetic study of epoxidation of alkenes by iron phthalocyanine

- N. Safari and F. Bahadaran (Tehran, Iran) 115

A combined theoretical and experimental study of the effects of residual chlorine on the behavior of Pd/γ-Al₂O₃ catalysts for methane oxidation

- G. Tonetto, M.L. Ferreira and D.E. Damiani (Bahía Blanca-R, Argentina) 123

A combined kinetic and mechanistic modelling of the catalytic degradation of polymers Y.-H. Lin (Kaohsiung, Taiwan), W.-H. Hwu, M.-D. Ger, T.-F. Yeh (Taoyuan, Taiwan) and J. Dwyer (Manchester, UK)	143
Liquid-phase heterogeneous catalytic transfer hydrogenation of citral on basic catalysts M.A. Aramendia, V. Borau, C. Jiménez, J.M. Marinas, J.R. Ruiz and F.J. Urbano (Córdoba, Spain)	153
Synthesis and catalytic activity of Fe(III) anchored to a polystyrene-Schiff base support R. Antony, G.L. Tembe, M. Ravindranathan (Vadodara, India) and R.N. Ram (Baroda, India)	159
Strong effect of transitional metals on the sulfur resistance of Pd/HY-Al ₂ O ₃ catalysts for aromatic hydrogenation L. Hu, G. Xia, L. Qu (Beijing, China), C. Li, Q. Xin (Dalian, China) and D. Li (Beijing, China)	169
The influence of Fe on the dispersion, electronic state, sulfur-resistance and catalysis of platinum supported on KL zeolite J. Zheng, T. Schmauke, E. Roduner (Stuttgart, Germany), J.L. Dong and Q.H. Xu (Nanjing, PR China)	181
Sol-gel entrapped Rh ₂ Co ₂ (CO) ₁₂ : a catalyst precursor for efficient arene hydrogenation F. Gelman, D. Avnir (Jerusalem, Israel), H. Schumann (Berlin, Germany) and J. Blum (Jerusalem, Israel)	191
Modified W/HZSM-5 catalysts: structure and catalytic properties A. de Lucas, J.L. Valverde, L. Rodriguez, P. Sanchez and M.T. Garcia (Ciudad Real, Spain)	195
Transient isotopic study of methanol oxidation on unsupported V ₂ O ₅ . Mechanism of methylal formation J.-M. Tatibouët (Poitiers, France) and H. Lauron-Pernot (Paris, France)	205
Halo-oxide ACuO _{2-δ} X (A = Sr _{0.63} Ca _{0.27} , X = F, Cl) catalysts active and durable for ethane selective oxidation to ethene H.X. Dai, H. He (Hong Kong, PR China and Beijing, PR China), C.F. Ng and C.T. Au (Hong Kong, PR China)	217
Synthesis, characterization and catalytic activity of actinide Th-MCM-41 and U-MCM-41 hexagonal packed mesoporous molecular sieves R. Tismaneanu, B. Ray, R. Khalfin, R. Semiat and M.S. Eisen (Haifa, Israel)	229
Effects of air pollutants on the cerium exchanged high silica zeolite catalyst: a Fourier transform infrared study C. Kladis, S.K. Bhargava (Melbourne, Australia), K. Fogar (Noble Park, Australia) and D.B. Akolekar (Melbourne, Australia)	243
Catalytic activity and stability of a chromium containing silicate in liquid phase cyclohexane oxidation R.S. da Cruz (Campinas, Brazil and Ilhéus, Brazil), J.M. de Souza e Silva, U. Arnold and U. Schuchardt (Campinas, Brazil)	251
Announcements	259
Author Index	263
Subject Index	265
Volume contents	271