

Contents Volume 104

Molecular Aspects of Heterogeneous Catalysis

Supercritical carbon dioxide as solvent for the copolymerization of carbon dioxide and propylene oxide using a heterogeneous zinc carboxylate catalyst [M801]

- D.J. Darensbourg, N. White Stafford, T. Katsurao (College Station, TX, USA) L1
- Clay-mediated cyclooligomerization of olefin oxides: a one-pot route to crown ethers [M817]
- A. Cabrera, J. Peón, L. Velasco, R. Miranda, A. Salmón, M. Salmón (Coyoacan, Mexico) L5

Chemical and Metal Complex Catalysis

Mechanistic study of acetylene carbonylation to anhydrides of dicarboxylic acids in solutions of palladium complexes [M767]

- L.G. Bruk, I.V. Oshanina, A.P. Kozlova, E.V. Vorontsov and O.N. Temkin (Moscow, Russia) 9

Molecular Aspects of Heterogeneous Catalysis

Review. Progress in hydroformylation and carbonylation [M786]

- M. Beller, B. Cornils, C.D. Frohning (Frankfurt/M., Germany) and C.W. Kohlpaintner (Corpus Christi, TX, USA) 17
- Surface acidity of V_2O_5/Al_2O_3 catalysts: IR and TPD studies [M796]
- M.M. Khader (Al-Ain, United Arab Emirates) 85
- Acidity and catalytic properties of $AlPO_4-11$, SAPO-11, MAPO-11, NiAPO-11, MnAPO-11 and MnAPSO-11 molecular sieves [M769]
- D.B. Akolekar (Kensington, NSW, Australia) 93
- Spectroscopic studies of vanadium incorporated SAPO-11 [M785]
- P.S. Singh, R. Bandyopadhyay and B.S. Rao (Pune, India) 101

Chemical and Metal Complex Catalysis

Mechanism of aniline alkylation over vanadia and supported vanadia [M908]

- S. Narayanan and K. Deshpande (Hyderabad, India) 109
- Conversion of cyclohexanol to dicyclohexyl ether catalyzed by cation-exchanged bentonite clays [M865]
- D. Chatterjee, H.M. Mody and K.N. Bhatt (Bhavnagar, India) 115
- On the mechanism of catalytic alkene oxidation by molecular oxygen and halogenated iron porphyrins [M858]
- E.R. Birnbaum, M.W. Grinstaff, J.A. Labinger, J.E. Bercaw and H.B. Gray (Pasadena, CA, USA) 119
- [2-(3-Trimethoxysilylthio)ethyl]diphenylphosphine – a new agent for transition metal immobilization [M840]
- M. Čapka, M. Czakoová, E. Hillerová (Prague, Czech Republic), E. Paetzold and G. Oehme (Rostock, Germany) 123

Molecular Aspects of Heterogeneous Catalysis

Aromatic substitution reactions of benzyl derivatives with a bentonite clay [M765]

- M. Salmón, N. Zavala, A. Cabrera, J. Cárdenas, R. Gaviño (México D.F., Mexico), R. Miranda (Cuautitlán Izcalli, Estado de México, México) and M. Martínez (México D.F., Mexico) 127
- XPS observation of surface interaction between H_2 and CO_2 on platinum foil [M846]
- M. Huang, A. Adnot (Québec, Canada), S. Suppiah (Ontario, Canada) and S. Kaliaguine (Québec, Canada) 131

Chemical and Metal Complex Catalysis

Phenolyses of 1-bromoethylbenzene by phase-transfer catalysis in a heterogeneous two-phase system [M780]

- H.-S. Wu and M.-C. Lu (Taoyuan, Taiwan, ROC) 139

Aminophosphine phosphinites of propranolol analogues as ligands for Rh-catalyzed asymmetric hydrogenation [M775] H.W. Krause, U. Schmidt, S. Taudien, B. Costisella and M. Michalik (Rostock, Germany)	147
Studies directed toward the prediction of the oxidative reactivity of vanadium peroxo complexes in water. Correlations between the nature of the ligands and ⁵¹ V-NMR chemical shifts [M802] V. Conte, F.D. Furia and S. Moro (Padova, Italy)	159
Molecular Aspects of Heterogeneous Catalysis	
Surface structure and acidity of alumina–boria catalysts [M764] S. Sato (Chiba, Japan), M. Kuroki (CO, USA), T. Sodesawa, F. Nozaki (Chiba, Japan) and G.E. Maciel (CO, USA)	171
Biomimetic Catalysis	
The inactivation of horseradish peroxidase by <i>m</i> -chloroperoxybenzoic acid, a xenobiotic hydroperoxide [M773] M.B. Arnao, J. Hernández-Ruiz (Murcia, Spain), R. Varón (Albacete, Spain), F. García-Cánovas and M. Acosta (Murcia, Spain)	179
Chemical and Metal Complex Catalysis	
The preparation of some polystyrene-supported porphyrinatoiron(III) and their catalysis in hydroxylation of cyclohexane with molecular oxygen [M913] Z.-L. Liu, J.-W. Huang and L.-N. Ji (Guangzhou, China)	193
Photocatalytic degradation of mixed surfactants and some commercial soap/detergent products using suspended TiO ₂ catalysts [M919] N. Nageswara Rao and S. Dube (Bhavnagar, India)	197
Micellar nickel(II)-2-pyridineketoxime complexes as powerful catalysts of the cleavage of carboxylic acid esters in weakly acidic conditions [M918] J. Budka, F. Hampl, F. Liska (Praha, Czech Republic), P. Scrimin (Trieste, Italy), P. Tecilla and U. Tonellato (Padova, Italy) ...	201
Chemical and Metal Complex Catalysis	
Mn doping of the Ziegler–Natta PP catalyst support material [M852] T. Garoff and T. Leinonen (Porvoo, Finland)	205
Reaction of alkylidenedinitrosylmolybdenum complexes with vinyl trisubstituted silanes and substituted acetylenes [M809] A. Keller and R. Matusiak (Wrocław, Poland)	213
Synthesis of γ -ketcycloalkancarboxylic acid esters by region-specific alkoxy carbonylation of α,β -ketcycloolefins catalyzed by palladium [M774] G. Cavinato (Padova, Italy) and L. Toniolo (Venezia, Italy)	221
Molecular Aspects of Heterogeneous Catalysis	
Influence of Ni–Cu alloying on Sepiolite-supported nickel catalysts in the liquid-phase selective hydrogenation of fatty acid ethyl esters [M862] F.M. Bautista, J.M. Campelo, A. Garcia, R. Guardado, D. Luna and J.M. Marinas (Cordoba, Spain)	229
C ₁ -oxygenated molecules adsorbed on rhodium containing catalysts. Identification of a formyl species [M848] D. Demri, L. Chateau, J.P. Hindermann, A. Kiennemann (Strasbourg, France) and M.M. Bettahar (Bab Ezzouar, Algeria)	237
Catalysis of gas and liquid phase ionic and radical rearrangements of α - and β -pinene by metal(IV) phosphate polymers [M783] M. Conceicao Cruz Costa, R.A.W. Johnstone and D. Whittaker (Liverpool, UK)	251
Hydrogen pressure dependence in the ring opening of methyloxirane over silica-supported Pd and Rh catalysts: effect of high temperature on ring-opening routes [M850] I. Pálínkó and J. Ocskó (Szeged, Hungary)	261
Catalytic cracking of decalin isomers over REHY-zeolites with different crystallite sizes [M808] E. Falabella Sousa-Aguiar, C.J.A. Mota, M.L. Murta Valle, M. Pinhel da Silva and D. Forte da Silva (Rio de Janeiro, Brazil)	267
Spectroscopic characterization of the CeO ₂ /TiO ₂ and Rh–CeO ₂ /TiO ₂ systems: CO adsorption and NO–CO, NO–C ₃ H ₈ reactions [M839] E. Guglielminotti and F. Boccuzzi (Torino, Italy)	273
Characterization of Mo/Al ₂ O ₃ sol–gel catalyst by ²⁷ Al nuclear magnetic resonance spectroscopy [M800] I.H. Cho, S.B. Park and J.H. Kwak (Taejon, South Korea)	285
Cyclodextrin modification of the hydrosilylation reaction [M806] L.N. Lewis (Schenectady, NY, USA) and C.A. Sumpter (Waterford, NY, USA)	293
Redox and carbonylation chemistry of iridium species in the channels of H-ZSM-5 zeolite [M844]	

T.V. Voskobjnikov, E.S. Shpiro (Moscow, Russia), H. Landmesser, N.I. Jaeger and G. Schulz-Ekloff (Bremen, Germany) 299 Modification of 12-molybdophosphoric acid catalyst by blending with polysulfone and its catalytic activity for 2-propanol conversion reaction [M853]	
J.K. Lee, I.K. Song, W.Y. Lee and J.-J. Kim (Seoul, South Korea) 311 Pyridine adsorption onto metal oxides: an ab initio study of model systems [M838]	
R. Ferwerda, J.H. Van der Maas and F.B. Van Duijneveldt (Utrecht, Netherlands) 319 Partial or complete heterogeneous photocatalytic oxidation of neat toluene and 4-picoline in liquid organic oxygenated dispersions containing pure or iron-doped titania photocatalysts [M814]	
J.A. Navio, M. García Gómez, M.A. Pradera Adrian and J. Fuentes Mota (Sevilla, Spain) 329	
Author index (Vol. 104) 341	
Subject index (Vol. 104) 345	