



ELSEVIER

Journal of Molecular Catalysis A: Chemical 99 (1995) 203–204

JOURNAL OF  
MOLECULAR  
CATALYSIS  
A: CHEMICAL

## Contents Volume 96

### *Chemical and Metal Complex Catalysis*

Mechanistic aspects of benzylic bromide formation and oxidation during the cobalt acetate bromide catalyzed oxidation of alkylbenzenes in carboxylic acids [M682]	1
G.M. Dugmore, G.J. Powels and B. Zeelie (Port Elizabeth, South Africa) .....	
Electrocatalytic hydrogenation on poly[Rh <sup>III</sup> (L) <sub>2</sub> (Cl) <sub>2</sub> ] <sup>+</sup> (L = pyrrole-substituted 2,2'-bipyridine or 1,10-phenanthroline) films electrodes [M674]	
S. Chardon-Noblat, I.M.F. De Oliveira, J.-C. Moutet and S. Tingry (Grenoble, France) .....	13
Effect of ligand donor-acceptor properties on selectivity of catalytic olefin isomerization reaction [M696]	
A.M. Trzeciak, L. Szterenberg, E. Wolszczak and J.J. Ziolkowski (Wroclaw, Poland) .....	23
Hydrogenation of 1-hexene by a triruthenium cluster stabilized with a face-capping 1,3-dithiacyclohexane ligand [M695]	
K.O. Kallinen, T.T. Pakkanen and T.A. Pakkanen (Joensuu, Finland) .....	29

### *Molecular Aspects of Heterogeneous Catalysis*

Cluster quantum-chemical study of the chemisorption of methane on zinc oxide surface [M688]	
N.U. Zhanpeisov, G.M. Zhidomirov (Novosibirsk, Russia) and M. Baerns (Bochum, Germany) .....	35
Microgels with trialkylammonio side chains function as catalysts for the alkaline hydrolysis of substituted phenyl laurate esters [M669]	
D.J. Evans, A. Williams (Canterbury, UK) and R.J. Pryce (Sittingbourne, Kent, UK) .....	41
Metathetical polymerization of substituted phenylacetylenes using in situ generated (arene)M(CO) <sub>3</sub> complexes (arene = toluene, <i>o</i> -xylene or mesitylene, M = Cr, Mo or W) as catalysts [M690]	
T.A. Vijayaraj and G. Sundararajan (Madras, India) .....	47

### *Chemical and Metal Complex Catalysis*

Kinetic and mechanistic investigation of the sequential hydrogenation of phenylacetylene catalyzed by rhodium(I) phosphine complexes of the type [Rh(η <sup>2</sup> -O <sub>2</sub> Z)(PR <sub>3</sub> ) <sub>2</sub> ] [M687]	
U. Möhring, M. Schäfer, F. Kukla, M. Schlaf and H. Werner (Würzburg, Germany) .....	55
Alkylguanidines as catalysts for the transesterification of rapeseed oil [M698]	
U. Schuchardt, R.M. Vargas (Campinas, SP, Brazil) and G. Gelbard (Villeurbanne, France) .....	65
The cocyclotrimerization of alkynes and acetonitrile with CpCoCOD as catalyst [M681]	
J.A.K. Du Plessis and J.S. Viljoen (Potchefstroom, South Africa) .....	71
Oxidation of olefins by palladium(II). Part XIV. Product distribution and kinetics of the oxidation of ethene by PdCl <sub>3</sub> (pyridine) <sup>-</sup> in aqueous solution in the presence and absence of CuCl <sub>2</sub> : a modified Wacker catalyst with altered reactivity [M700]	
J.W. Francis and P.M. Henry (Chicago, IL, USA) .....	77
Copper(I) and copper(II) dinuclear complexes of a macrocyclic ligand derived from the 2:2 condensation of pyridine-2,6-dicarboxaldehyde and 1,4,7-triazaheptane [M691]	
D.A. Rockcliffe and A.E. Martell (College Station, TX, USA) .....	87
Stoichiometric and catalytic oxidation by a dinuclear copper(I) dioxygen complex and a dinuclear copper(II) complex of a macrocyclic ligand derived from the 2:2 condensation of pyridine-2,6-dicarboxaldehyde and 1,4,7-triazaheptane [M692]	
D.A. Rockcliffe and A.E. Martell (College Station, TX, USA) .....	101
Transformation of carbon compounds on graphimet catalysts. Part V. The effect of pretreatment on the structure and activity of Pt-graphimet catalyst [M703]	
Á. Mastalir, F. Notheisz, M. Bartók, Z. Király and I. Dékány (Szeged, Hungary) .....	115
Multinuclear NMR studies of V <sub>2</sub> O <sub>5</sub> -Cs <sub>2</sub> S <sub>2</sub> O <sub>7</sub> melts [M702]	
O.B. Lapina, V.M. Mastikhin, A.A. Shubin (Novosibirsk, Russia), K.M. Eriksen and R. Fehrmann (Lyngby, Denmark) .....	123

***Chemical and Metal Complex Catalysis***

Spectator cations and catalysis with sulfonated phosphines. The role of cations in determining reaction selectivity in the aqueous phase hydroformylation of olefins [M712] .....

H. Ding and B.E. Hanson (Blacksburg, VA, USA) ..... 131

Cluster quantum-chemical study of the chemisorption of methane on a lithium-promoted magnesium oxide doped by zinc oxide [M689] .....

N.U. Zhanpeisov (Novosibirsk, Russia) and M. Baerns (Bochum, Germany) ..... 139

Oxidation of bromide by chlorate catalysed by Mo [M677] .....

L.S. Villata, D.O. Martíre and A.L. Capparelli (La Plata, Argentina) ..... 143

Erratum to 'Hydrogenation of the aromatic rings of 2-ethylanthraquinone on palladium catalyst' [J. Mol. Catal. 94 (1994) 37] [M740] .....

E. Santacesaria, M. Di Serio (Napoli, Italy), R. Velotti (Bussi Pescara, Italy) and U. Leone (Napoli, Italy) ..... 151

***Molecular Aspects of Heterogeneous Catalysis***

Kinetics of the reaction of benzoyl chloride and sodium carboxylate under inverse phase-transfer catalysis [M665] .....

M.-L. Wang, C.-C. Ou (Hsinchu, Taiwan) and J.-J. Jwo (Tainan, Taiwan) ..... 153

Propene-co-butene random copolymers synthesized with superactive Ziegler-Natta catalyst [M715] .....

G. Collina, L. Noristi (Ferrara, Italy) and C.A. Stewart (Elkton, MD, USA) ..... 161

Chlorinated organic polymers as supports for Ziegler-Natta catalysts [M699] .....

S. Jericó, U. Schuchardt, I. Joekes, W. Kaminsky and A. Noll (Campinas, SP, Brazil) ..... 167

$^{31}\text{P}$  MAS NMR study of the hydrolysis of  $O,S$ -diethyl phenylphosphonothioate on reactive sorbents [M713] .....

G.W. Wagner and P.W. Bartram (Aberdeen Proving Ground, MD, USA) ..... 175

Catalytic methanol decomposition to carbon monoxide and hydrogen over Ni/SiO<sub>2</sub> of high nickel content [M706] .....

Y. Matsumura, N. Tode, T. Yazawa and M. Haruta (Osaka, Japan) ..... 183

***Biomimetic Catalysis***

Cationic ironporphyrins as catalyst in comparative oxidation of hydrocarbons: homogeneous and supported on inorganic matrices systems [M679] .....

Y. Iamamoto (Ribeirão Preto, SP, Brazil), Y.M. Idemori (Belo Horizonte, MG, Brazil) and S. Nakagaki (Curitiba, PR, Brazil) ..... 187

**Author index (Vol. 99)** ..... 195

**Subject index (Vol. 99)** ..... 197

**Contents (Vol. 99)** ..... 203