



ELSEVIER

Journal of Molecular Catalysis A: Chemical 127 (1997) 217–218

JOURNAL OF  
MOLECULAR  
CATALYSIS  
A: CHEMICAL

## Contents Volume 127

**Vol. 127, Nos. 1–3**

### Review

#### *Chemical and metal complex catalysis*

- Hydrogen peroxide, water oxide and catalysis [M1575]  
I.I. Moiseev (Moscow, Russia) ..... 1

### Articles

#### *Chemical and metal complex catalysis*

- Cerium (IV) ammonium nitrate as an efficient catalyst for oxidation of alkyl malonates into ketomalonates by dioxygen [M1579]  
V. Tugaut, S. Pellegrini, Y. Castanet and A. Mortreux (Villeneuve d'Ascq, France) ..... 25
- Carbonylation of nitrobenzene catalysed by palladium and heteropolyanions; a mechanistic approach [M1589]  
F. Ragaini, M. Macchi and S. Cenini (Milan, Italy) ..... 33
- Kinetics of the oxidation of iodine by hydrogen peroxide catalyzed by  $\text{MoO}_4^{2-}$  ions [M1590]  
M. Melicherčík, A. Olexová and L. Treindl (Bratislava, Slovak Republic) ..... 43
- Hydrogenation of  $\text{CO}_2$  on the cathodized tungsten trioxide/polyaniline/polyvinylsulfate-modified electrode in aqueous solution [M1591]  
N. Endo, Y. Miho and K. Ogura (Ube, Japan) ..... 49
- Selective air oxidation of dimethyl sulfide to dimethyl sulfoxide catalysed by aminopolycarboxylatoruthenium(III) complex [M1592]  
D. Chatterjee (Bhavnagar, India) ..... 57

#### *Molecular aspects of heterogeneous catalysis*

- On the nature of spilt-over hydrogen [M1577]  
U. Roland, T. Braunschweig (Leipzig, Germany) and F. Roessner (Oldenburg, Germany) ..... 61
- Reactivity of transition-metal-modified, Keggin-type heteropolycomplexes in the homogeneous oxidation of cyclohexane and adamantane [M1578]  
M.R. Cramarossa, L. Forti (Modena, Italy), M.A. Fedotov, L.G. Detusheva, V.A. Likholobov, L.I. Kuznetsova, G.L. Semin (Novosibirsk, Russia), F. Cavani and F. Trifirò (Bologna, Italy) ..... 85
- Palladium and silver reductive catalyzed carbonylation of nitrobenzene to methyl *N*-phenylcarbamate [M1580]  
R. Santi, A.M. Romano, F. Panella and C. Santini (Novara, Italy) ..... 95
- Selective chlorination of 4-chlorotoluene using zeolite catalysts [M1581]  
A.P. Singh, S. Sharma and S.M. Kale (Pune, India) ..... 101
- On the adsorbates formed during the platinum catalyzed (electro)oxidation of ethanol, 1,2-ethanediol and methyl- $\alpha$ -D-glucopyranoside at high pH [M1583]  
J.F.E. Gootzen, A.H. Wonders, A.P. Cox, W. Visscher and J.A.R. Van Veen (Eindhoven, The Netherlands) ..... 113
- Copper-catalyzed synthesis of methylamines from  $\text{CO}_2$ ,  $\text{H}_2$  and  $\text{NH}_3$ . Influence of support [M1584]  
S.V. Gredig, R. Maurer, R.A. Koeppl and A. Baiker (Zurich, Switzerland) ..... 133
- Comparative study of *n*-butane transformation over Pt/sulfated zirconia and Pt/zeolites [M1585]  
H.-c. Wu (Hsinchu, Taiwan), L.-j. Leu (Chia-Yi, Taiwan), C. Naccache (Villeurbanne, France) and K.-j. Chao (Hsinchu, Taiwan) ..... 143

The structural fitting and the interaction energy between the zeolite lattice models and organic molecules in the conversion of spirolactones to enones [M1587]	
A. Chatterjee (Miyagino-ku, Japan), R. Vetrivel (Pune, India), R. Sreekumar, Y.V.S.N. Murthy and C.N. Pillai (Madras, India) . . . . .	153
Modelling of hydrotreating catalysis based on the remote control: HYD and HDS [M1588]	
Y.W. Li and B. Delmon (Louvain-la-Neuve, Belgium) . . . . .	163
Ab initio effective potential calculation on $\gamma$ -Mo <sub>2</sub> N-thiophene systems [M1594]	
C. Rong and X. Qin (Dalian, China) . . . . .	191
Temperature-programmed surface reaction (TPSR) of pre-adsorbed carbon CO and CO/H <sub>2</sub> synthesis over Ru–Cs/Al <sub>2</sub> O <sub>3</sub> catalysts [M1598]	
B.H. Sakakini (Manchester, UK) . . . . .	203
Author Index . . . . .	211
Subject Index . . . . .	213
Contents Volume 127 . . . . .	217