

## Contents Volume 102

### *Chemical and Metal Complex Catalysis*

- Copolymerization of ethylene and linear 1-olefins with a metallocene catalyst system under high pressure. Part I. Copolymerization of ethylene and propene [M747]  
C. Bergemann, R. Cropp and G. Luft (Darmstadt, Germany) ..... 1
- Cyclization of living polyalkenamers via intramolecular secondary metathesis. Dimerization of cycloheptene into cyclotetradeca-1,8-diene initiated by well-defined tungsten–carbene catalysts [M686]  
J. Kress (Strasbourg, France) ..... 7
- Ruthenium catalyzed epoxidations: mechanistic and synthetic aspects [M748]  
G.A. Barf and R.A. Sheldon (Delft, Netherlands) ..... 23
- A new chiral auxiliary in enantioselective hydrogenations: (–)-dihydrovinpocetine. Part I. Hydrogenation of isophorone [M752]  
T. Tarnai, A. Tungler, T. Máthé, J. Petró (Budapest, Műegyetem, Hungary), R.A. Sheldon (Delft, Netherlands) and G. Tóth (Budapest, St. Gellért tér, Hungary) ..... 41

### *Molecular Aspects of Heterogeneous Catalysis*

- Synthesis of indole, benzofuran and benzothiophene by reaction of 2-anilinoethanol, 2-phenoxyethanol and 2-(phenylthio)ethanol on  $\text{AlPO}_4$  and Pd/ $\text{AlPO}_4$  catalysts [M49]  
J. Afxantidis (Marseille, France), N. Bouchry (El Jadida, Morocco) and J.-P. Aune (Marseille, France) ..... 49

### *Chemical and Metal Complex Catalysis*

- Microstructure of polypropene samples produced with different homogeneous bridged indenyl zirconium catalysts. Clues on the structure and reactivity relation [M725]  
G. Schupfner and W. Kaminsky (Hamburg, Germany) ..... 59
- A new model of capsule membrane phase transfer catalysis for oxidation of benzyl chloride to benzaldehyde with hydrogen peroxide [M750]  
G.D. Yadav and C.K. Mistry (Bombay, India) ..... 67
- Esterification of 2,6-pyridinedicarboxylic acid with n-butanol catalyzed by heteropoly acid  $\text{H}_3\text{PW}_{12}\text{O}_{40}$  or its Ce(III) salt [M761]  
M.N. Timofeeva, R.I. Maksimovskaya, E.A. Paukshtis and I.V. Kozhevnikov (Novosibirsk, Russia) ..... 73

### *Molecular Aspects of Heterogeneous Catalysis*

- Catalytic activity of ruthenium 2,2'-bipyridine derived catalysts in 1-hexene hydroformylation and 1-heptanal hydrogenation [M755]  
M. Haukka, L. Alvila and T.A. Pakkanen (Joensuu, Finland) ..... 79
- Effects of anionic micelles on the intramolecular general base-catalyzed hydrolysis of phenyl and methyl salicylates [M730]  
M. Niyaz Khan (Kuala Lumpur, Malaysia) ..... 93
- Hydrocarbon synthesis from CO and  $\text{H}_2$  on (Fe + Pt)/ $\text{SiO}_2$  catalysts [M746]  
V.I. Kovalchuk and B.N. Kuznetsov (Krasnoyarsk, Russian Federation) ..... 103

### *Biomimetic Catalysis*

- Promoter effect of poly(4-vinylpyridine) on the direct electron transfer between cytochrome *c* and gold electrode [M697]  
X. Qu, T. Lu and S. Dong (Changchun, China) ..... 111

### *Chemical and Metal Complex Catalysis*

- Decomposition of cyclohexyl hydroperoxide catalysed by ruthenium porphyrins. Hydroxylation of the solvent cyclohexane [M726]  
C.B. Hansen, F.P.W. Agterberg, A.M.C. Van Eijndhoven and W. Drenth (Utrecht, Netherlands) ..... 117

Synthesis of arylacetic acid derivatives from mandelic acid derivatives by hydrogen transfer from H <sub>2</sub> O–CO catalyzed by a Pd/C–HCl system [M736]	
G. Cavinato (Padova, Italy), L. Ronchin and L. Toniolo (Venezia, Italy) .....	129

### ***Molecular Aspects of Heterogeneous Catalysis***

Catalysis of transition metal-functionalized hydrotalcites for the Baeyer–Villiger oxidation of ketones in the presence of molecular oxygen and benzaldehyde [M714]	
K. Kaneda, S. Ueno and T. Imanaka (Osaka, Japan) .....	135
Benzoylation of toluene with benzoyl chloride over zeolite catalysts [M763]	
A.P. Singh, D. Bhattacharya and S. Sharma (Pune, India) .....	139
Investigation of MoS <sub>2</sub> on $\gamma$ -Al <sub>2</sub> O <sub>3</sub> by HREM with atomic resolution [M770]	
R.M. Stockmann, H.W. Zandbergen, A.D. Van Langeveld and J.A. Moulijn (Delft, Netherlands) .....	147
Pyridine interaction with a partially hydrogenated MoS <sub>2</sub> modelled surface. A molecular orbital study [M738]	
E.N. Rodríguez-Arias, A.E. Gainza, A.J. Hernández, P.S. Lobos and F. Ruelle (Caracas, Venezuela) .....	163
Kinetic method for the characterization of Brønsted sites on oxide surfaces. Part I. Trimethylorthoobenzoate hydrolysis over a series of Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> mixed oxides [M762]	
V.T. Popa, C. Contescu and J.A. Schwarz (Syracuse, NY, USA) .....	175
<b>Author index (Vol. 102) .....</b>	<b>193</b>
<b>Subject index (Vol. 102) .....</b>	<b>195</b>
<b>Contents (Vol. 102) .....</b>	<b>199</b>