

Collect. Czech. Chem. Commun.  
1998, 63, 1699–1723

**Microwave Techniques in the Synthesis and Modification of Zeolite Catalysts. A Review**

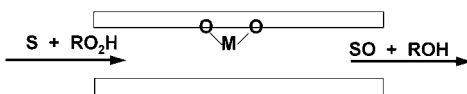
Colin S. Cundy

- Features of Microwave Heating
- Synthesis of Microporous and Mesoporous Materials
- Rate and Selectivity Effects in Microwave Synthesis
- Catalyst Modification and Activation

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1998, 63, 1724–1742

**Activities and Stabilities of Redox Molecular Sieve Catalysts in Liquid Phase Oxidations. A Review**

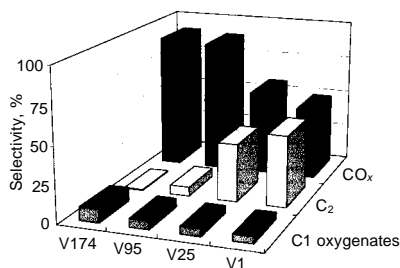
Roger A. Sheldon, Isabel W. C. E. Arends and Hans E. B. Lempers



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1998, 63, 1743–1754

**Partial Oxidation of Methane on Silica-Supported Vanadia Catalysts. The Relevance of Catalyst BET Area and Gas-Phase Activation**

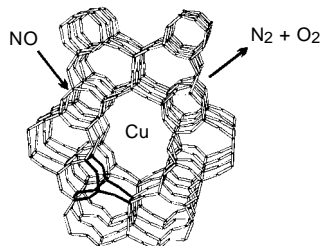
Jose Hilton Cardoso, Miguel A. Banares, Jose M. Correa Bueno and Jose L. G. Fierro



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1998, 63, 1755–1768

**Catalytic Activity of Cu Ion-Exchanged Metalloaluminophosphates in NO Decomposition**

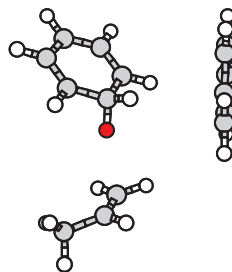
Jiri Dedecek, Alena Vondrova and Jiri Cejka



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1998, 63, 1769–1780

**Kinetic and Theoretical Study of the Effect of Molecular Sieve Structure on the Selectivity to Propylbenzenes in Alkylation of Benzene with Isopropyl Alcohol**

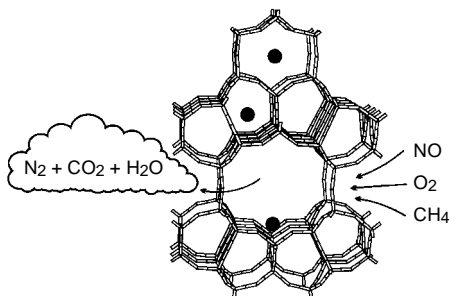
Jiri Cejka, Nadezda Zilkova,  
Judit E. Sponer and Blanka Wichterlova



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1998, 63, 1781–1792

**Siting and Reactivity of the Co Ions in Ferrierite in Selective Catalytic Reduction of NO with CH<sub>4</sub>**

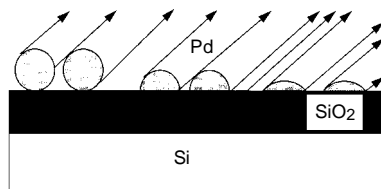
Dalibor Kaucky, Jiri Dedecek, Alena Vondrova,  
Zdenek Sobalik and Blanka Wichterlova



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1998, 63, 1793–1802

**Adsorption of Carbon Monoxide on Pd/SiO<sub>2</sub>/Si(111) Studied by Core-Level Photoemission**

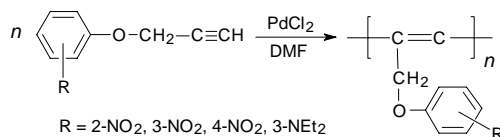
Zdenek Bastl and Tomas Sarapatka



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1998, 63, 1803–1814

**Polymerization of Nitrophenyl and 3-Diethylaminophenyl Prop-2-yn-1-yl Ethers with PdCl<sub>2</sub>. Polymers and Copolymers Characterization**

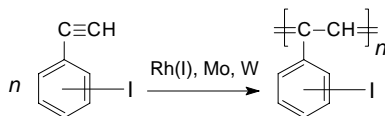
Hynek Balcar, Petr Holler,  
Jan Sedlacek and Vratislav Blechta



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1998, 63, 1815–1838

**Comparative Study of Polymerization of 2-, 3- and 4-Iodophenylacetylenes with Rh-, Mo- and W-Based Catalysts**

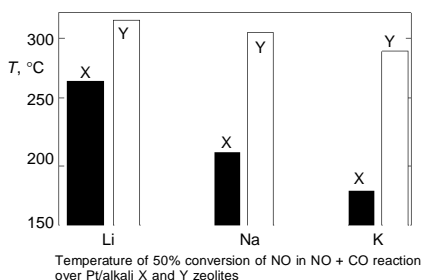
Jiri Vohlidal, Jan Sedlacek, Nikolay Patev,  
Marta Pacovska, Olivier Lavastre,  
Sandrine Cabioch, Pierre H. Dixneuf,  
Vratislav Blechta, Pavel Matejka and Hynek Balcar



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1998, 63, 1839–1850

**Platinum, Palladium and Rhodium Clusters in Alkali X and Y Zeolites. Preparation and Catalytic Activity**

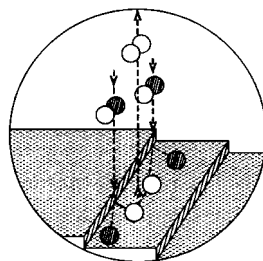
Jana Novakova



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1998, 63, 1851–1868

**Role of Energy Dissipation and Surface Mobility in Heterogeneous Catalysis by Metals**

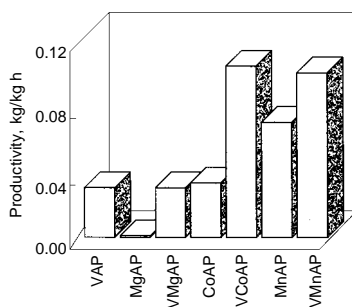
Zlatko Knor and Jan Plsek



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1998, 63, 1869–1883

**Oxidative Dehydrogenation of Ethane on Vanadium-Containing Aluminophosphates with AFI Structure**

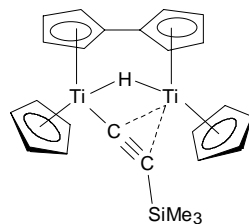
Teresa Blasco, Patricia Concepcion,  
Jose M. Lopez Nieto and  
Arturo Martinez-Arias



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1998, 63, 1884–1892

**Synthesis and Crystal Structure of  
(Trimethylsilyl)acetylide-Bridged  
Dimeric Titanocene**

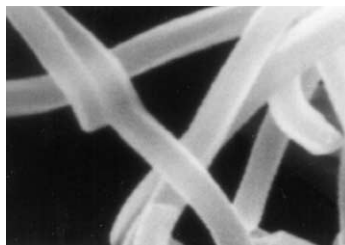
Robert Gyepes, Petr Stepnicka,  
Ulf Thewalt, Miroslav Polasek,  
Jiri Cejka, Michal Horacek  
and Karel Mach



Collect. Czech. Chem. Commun.  
1998, 63, 1893–1906

**Homogeneous Precipitation of Siliceous  
MCM-41 and Bimodal Silica**

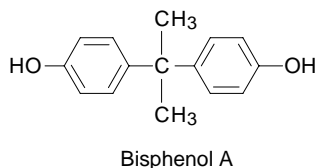
Jiri Rathousky, Marketa Zukalova,  
Arnost Zukal and Jiri Had



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1998, 63, 1907–1914

**Possibilities of Decreasing Absorption  
of Water in Ion-Exchanger Catalysts**

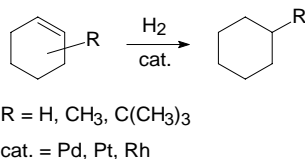
Karel Jerabek and Zdenek Prokop



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1998, 63, 1915–1926

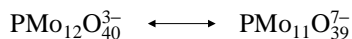
**Competitive Catalytic Hydrogenation in Unsaturated  
Hydrocarbon Systems with Sterically Hindered  
Double Bonds**

Petr Kacer, Leiv Laate and Libor Cerveny



Collect. Czech. Chem. Commun.  
1998, 63, 1927–1937

**Effect of Heteroatom on Properties  
of SiO<sub>2</sub>-Supported Heteropolymolybdates**

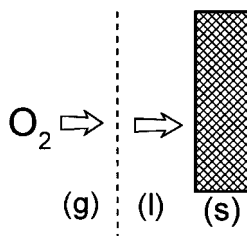


Alla Spojakina, Nina Kostova  
and Kveta Jiratova

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1998, 63, 1938–1944

**Mass Transfer Limited Wet Oxidation  
in Trickle-Bed Reactor**

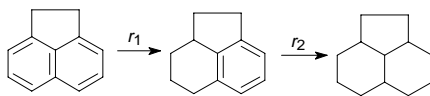
Vratislav Tukac, Jiri Vokal and Jiri Hanika



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1998, 63, 1945–1953

**Catalyst Selection for Hydrogenation  
of 1,2-Dihydroacenaphthylene**

Jiri Hanika, Karel Sporcka, Petr Macoun  
and Vladimir Kysilka



Collect. Czech. Chem. Commun.  
1998, 63, 1954–1962

**Dynamic Gas Transport in Porous  
Bidispersed Alumina**

Vladimir Hejtmanek, Pavel Capek,  
Olga Solcova and Petr Schneider

