

# REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

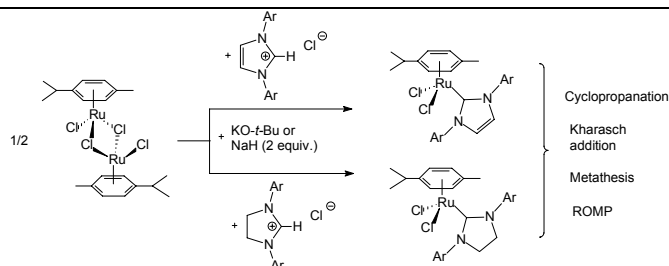
Tome 52, N° 11

Novembre 2007

## REVIEW

Ileana DRĂGUȚAN, Valerian DRĂGUȚAN,  
Lionel DELAUDE, Albert DEMONCEANU  
and Alfred F. NOELS

N-heterocyclic carbene ruthenium complexes:  
synthesis and catalytic properties



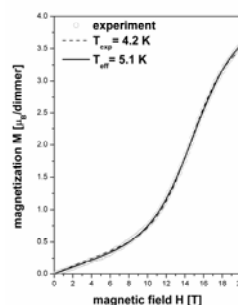
**Key words:** ruthenium complexes, N-heterocyclic carbenes, homogeneous precatalysts, olefin metathesis, cyclopropanation.

*Rev. Roum. Chim.*, 2007, 52(11), 1009-1025

## PAPERS

Nenad Dj. LAZAROV, Vojislav  
SPASOJEVIĆ, Vladimir M. MATIĆ,  
Vladan KUSIGERSKI and  
Maurice GUILLOT

Magnetic properties of asymmetric Co(II) dimer  
at low temperatures

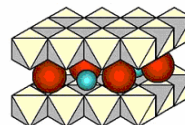


**Key words:** transition metal complex, exchange and superexchange, using model, high field magnetization.

*Rev. Roum. Chim.*, 2007, 52(11), 1027-1031

Elena-Mihaela SEFTEL, Eveline POPOVICI,  
Vasile PODE and Geza BANDUR

Synthesis, characterization and thermal behavior  
of hydrotalcite-type  $Mg_xZn_xAl$

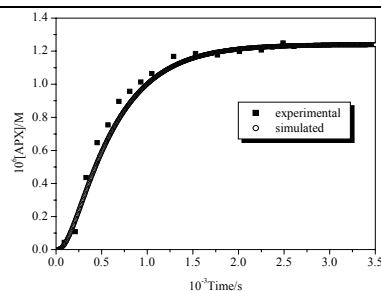


**Key words:** hydrotalcite-type  $Mg_xZn_xAl$ ; XRD patterns; FTIR spectra; UV DR spectra; thermal analysis.

*Rev. Roum. Chim.*, 2007, 52(11), 1033-1037

Mihaela PUIU, Adina RĂDUCAN and  
Dumitru OANCEA

Kinetics of copper(II) catalyzed oxidation of  
2-aminophenol in a continuous stirred tank  
reactor

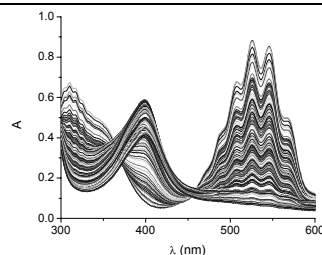


*Rev. Roum. Chim.*, 2007, 52(11), 1039-1044

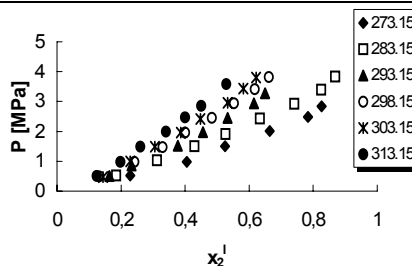
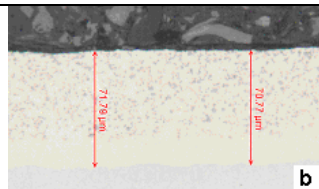
**Key words:** 2-aminophenol, continuous stirred tank reactor, oxidation

**Lucian COPOLOVICI and Ioan BALDEA**

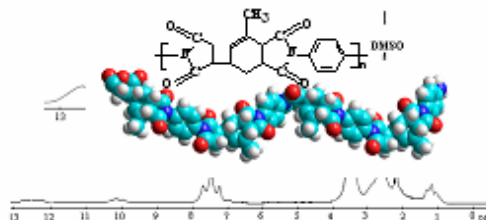
Kinetics of the phenol oxidation by permanganate in acidic media

*Rev. Roum. Chim.*, 2007, 52(11), 1045-1050**Key words:** phenol, permanganate, kinetics, mechanism, oxidation.**Ioan GĂINAR, Daniela BALA and Costinel I. LEPĂDATU**

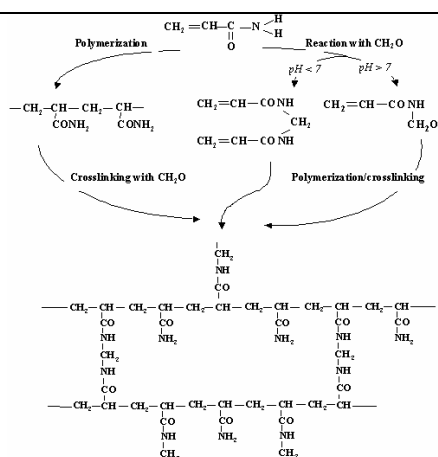
High pressure solubility of carbon dioxide in some C4 esters

*Rev. Roum. Chim.*, 2007, 52(11), 1051-1055**Key words:** solubility of gases, high pressure, critical phenomena.**Geta CĂRĂC, Cătălina ITICESCU, Lidia BENEĂ, Thomas LAMPKE and Siegfried STEINHAUSER**The effect of nano- $\text{Al}_2\text{O}_3$  dispersed phase in nickel matrix electrocodeposited*Rev. Roum. Chim.*, 2007, 52(11), 1057-1062**Key words:** nanostructured, composite coatings, nickel, alumina oxide.**Camelia HULUBEI, Elena HAMCIUC and Maria BRUMĂ**

New polyimides based on epiclone

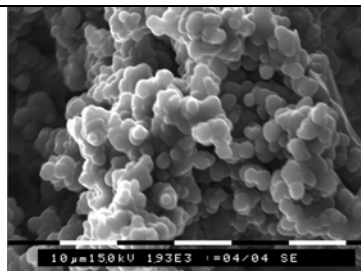
*Rev. Roum. Chim.*, 2007, 52(11), 1063-1069**Key words:** epiclone, aliphatic dianhydride polyimides, thermostability, solubility.**Camelia MIHĂILESCU, Anca DUMITRESCU, Bogdan C. SIMIONESCU and Victor BULACOVSCI**

Synthesis of polyacrylamide – based hydrogels by simultaneous polymerization/crosslinking

*Rev. Roum. Chim.*, 2007, 52(11), 1071-1076**Key words:** acrylamide, crosslinking polymer, simultaneous polymerization/crosslinking, swelling degree.

Liviu Cosmin COTET, Virginia DANCIU,  
Veronica COȘOVEANU, Ionel Cătălin  
POPESCU, Anna ROIG and Elies MOLINS

Synthesis of meso- and macroporous carbon  
aerogels

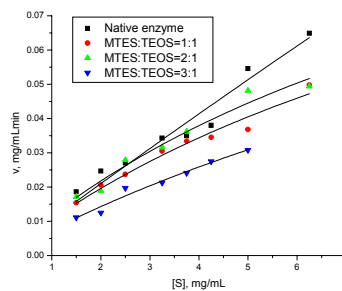


*Rev. Roum. Chim.*, 2007, 52(11), 1077-1081

**Key words:** carbon aerogels, sol-gel processing, meso-macrostructures.

Beatrice VLAD-OROS,  
Monica DRAGOMIRESCU,  
Gabriela PREDA, Francisc PETER and  
Adrian CHIRIAC

Characterization of silica-based biomaterials  
containing microbial amylases



*Rev. Roum. Chim.*, 2007, 52(11), 1083-1087

**Key words:** microbial amylases, sol-gel, tetrathoxysilane,  
methyltriethoxysilane, phenyltriethoxysilane.

