

# REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

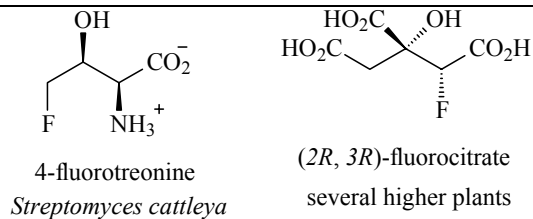
Tome 51, N° 12

Décembre 2006

## REVIEWS

Vasile DINOIU

Fluorine chemistry: past, present and future

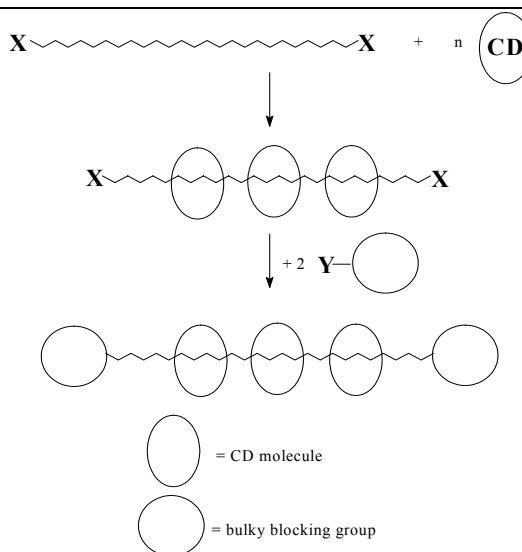


*Rev. Roum. Chim.*, 2006, 51(12), 1141-1152

**Key words:** fluorine; medicinal fluorine chemistry; organofluorine compounds.

Aurica FARCAS and  
Cristofor I. SIMIONESCU

Conjugated polymers with rotaxane architecture



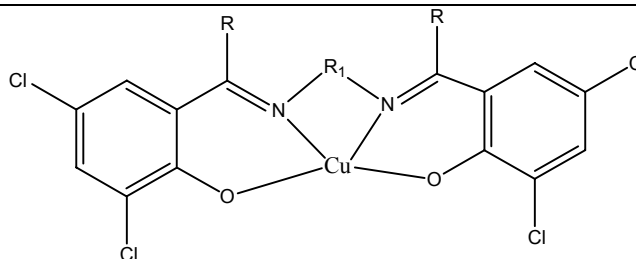
*Rev. Roum. Chim.*, 2006, 51(12), 1153-1156

**Key words:** rotaxane architecture; supramolecular chemistry; conjugated polymers; cyclodextrins.

## PAPERS

Aurel PUI

Synthesis, characterization and catalytic activity of the *tetra*-chlorosalen and *tetra*-chlorosalophen copper(II) complexes

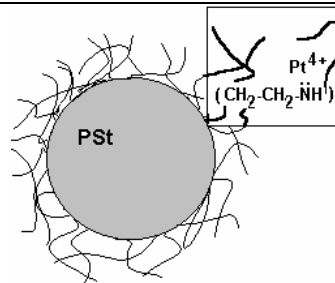


*Rev. Roum. Chim.*, 2006, 51(12), 1157-1162

**Key words:** Schiff based; copper(II) complexes; catalytic activity.

Carmen PĂDURARU, Geta DAVID,  
Doina BÎLBA and Ioan SÂRGHIE

Polystyrene latex with partially hydrolyzed  
PNAI grafts at the surface as Pt(IV) sorbent

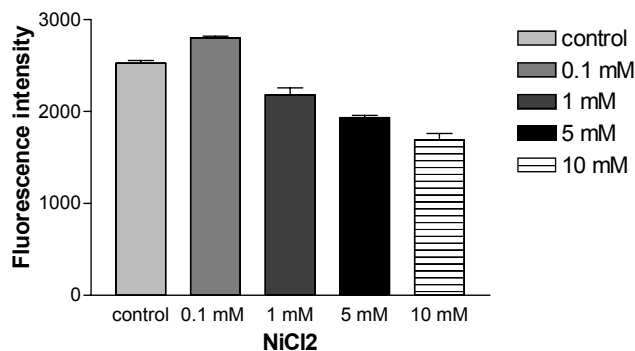


*Rev. Roum. Chim.*, 2006, 51(12), 1163-1168

**Key words:** sorbent; latex; metal recovery; platinum.

Raluca CIUBĂR, Anișoara CÎMPEAN  
and Dana IORDĂCHESCU

Effects of nickel(II) on human  
polymorphonuclear leukocyte function *in vitro*

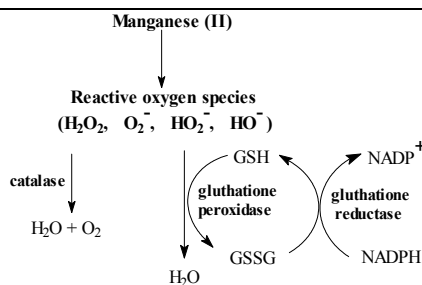


*Rev. Roum. Chim.*, 2006, 51(12), 1169-1173

**Key words:** polymorphonuclear leukocyte; nickel; respiratory burst;  
phagocytosis.

Simona PARASCHIV, Maria Cristina  
MUNTEANU, Andreea Cristina STAICU,  
Călin TESIO, Diana DINU,  
Mihaela Rocsana LUCA, Marieta  
COSTACHE and Anca DINISCHIOTU

Biochemical response in intestine and gills of  
*Carassius auratus gibelio* to acute manganese(II)  
intoxication

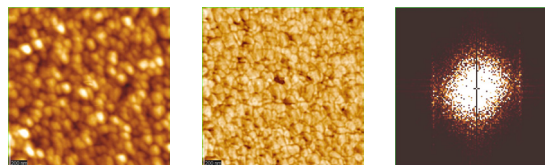


*Rev. Roum. Chim.*, 2006, 51(12), 1175-1179

**Key words:** catalase; glutathione peroxidase; glutathione reductase.

Maria TOMOAI-A-COTIȘEL, Andrada  
TOMOAI-A-COTIȘEL, Traianos YUPSANIS,  
Gheorghe TOMOAI-A, Ioan BALEA, Aurora  
MOCANU and Csaba RACZ

Coating layers of major storage protein from  
aleurone cells of barley studied by atomic force  
microscopy



**Key words:** protein coating layers; protein adsorption; storage protein from  
aleurone cells of barley; AFM.

*Rev. Roum. Chim.*, 2006, 51(12), 1181-1185

Stelian PETRESCU and Mihaela PÎRLOG

Experimental study of gas-solid mass transfer  
in fixed bed of porous particles

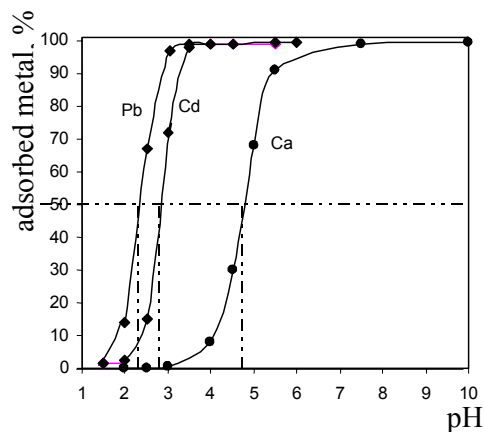
$$\bar{X} = \frac{1}{H} \cdot \int_0^H X(h) dh$$

*Rev. Roum. Chim.*, 2006, 51(12), 1187-1197

**Key words:** gas-solid systems; mass transfer; adsorption; fixed bed.

**Alina Catrinel ION, Ion ION  
and Luminița BARBU**

Optimization of pre-concentration of cadmium and lead from samples with phosphate matrices using Chelex 100



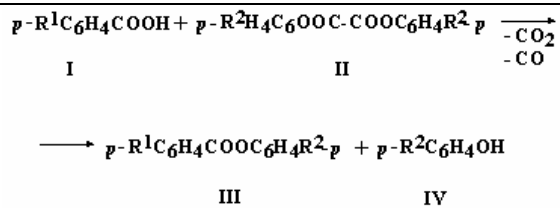
*Rev. Roum. Chim.*, 2006, 51(12), 1199-1205

**Key words:** Cd(II); Pb(II); Chelex 100; NPK fertilizers.

**NOTE**

**Constantin I. CHIRIAC, Fulga TANASĂ  
and Marioara NECHIFOR**

A novel synthetic pathway for obtaining aromatic carboxylic esters starting from diaryl oxalates



*Rev. Roum. Chim.*, 2006, 51(12), 1207-1209

**Key words:** synthesis, aromatic esters, condensation.

**Index of authors**

*Rev. Roum. Chim.*, 2006, 51(12), 1211-1222

**Index of subjects**

*Rev. Roum. Chim.*, 2006, 51(12), 1223-1227