

# REVUE ROUMAINE DE CHIMIE (ROMANIAN JOURNAL OF CHEMISTRY)

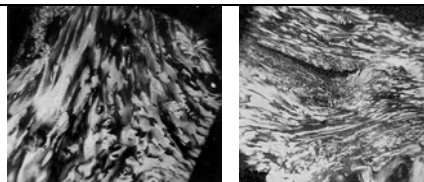
Tome 55, N° 5

Mai 2010

## REVIEWS

Cornelia PANAITESCU and  
Georgeta PREDEANU

Petrographic research applied to carbon materials

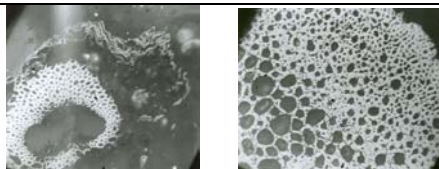


**Key words:** optical texture, coal-tar pitch, needle petroleum coke, grafitized electrode, calcinated anthracite.

*Rev. Roum. Chim.*, 2010, 55(5), 299-310

Georgeta PREDEANU and  
Cornelia PANAITESCU

Optical properties of some carbons types



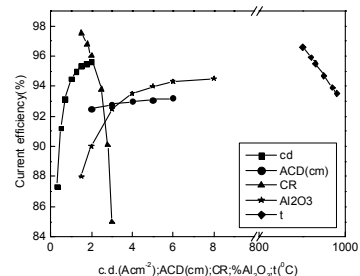
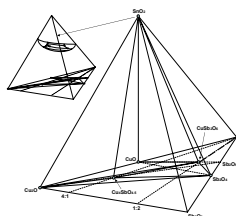
**Key words:** activated carbon, graphite intercalated compounds, vitreous carbon, mesophase, porosity.

*Rev. Roum. Chim.*, 2010, 55(5), 311-317

## PAPERS

Ana Maria POPESCU, George NIPAN,  
Suzana MIHAIU, Virgil CONSTANTIN,  
Mircea OLTEANU and Nikolai SHUMILKIN

Structure and behaviour of ceramic materials  
based on  $\text{SnO}_2$  used as inert anodes in  
electrowinning processes

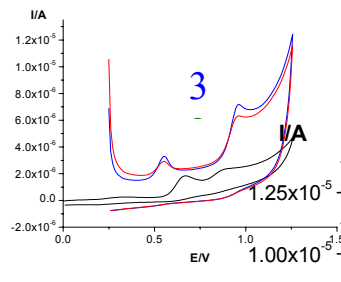


**Key words:** aluminium electrolysis, inert anodes,  $\text{SnO}_2$ -based ceramic anodes, polarization, current efficiency, corrosion, cyclic voltammetry in molten salts, solubility of  $\text{SnO}_2$ .

*Rev. Roum. Chim.*, 2010, 55(5), 319-328

Alina CRISTIAN,  
Emilia Elena IORGULESCU and  
Constantin MIHAILCIUC

Electrochemical studies using activated glassy  
carbon. I. Meloxicam

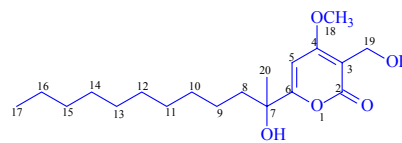


**Key words:** meloxicam, anodically activated GCE, accumulation, Cyclic voltametry.

*Rev. Roum. Chim.*, 2010, 55(5), 329-334

**Ming-Jen CHENG, Ming-Der WU,  
Ih-Sheng CHEN, Ping-Shin YANG and  
Gwo-Fang YUAN**

Secondary metabolites isolated from the fungus  
*Monascus pilosus*

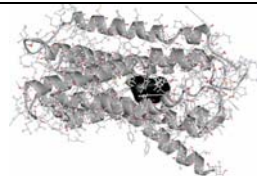


*Rev. Roum. Chim.*, **2010**, 55(5), 335-341

**Key words:** *Monascus pilosus*; fungus; fermented Rice (red mold rice);  
2H-pyrone derivative; monascuspyrone.

**Liliana OSTOPOVICI-HALIP,  
Ana BOROTA, Alexandra GRUIA,  
Maria MRACEC, Ramona RAD CURPAN  
and Mircea MRACEC**

3D homology model of the  $\alpha$ 2B-adrenergic  
receptor subtype

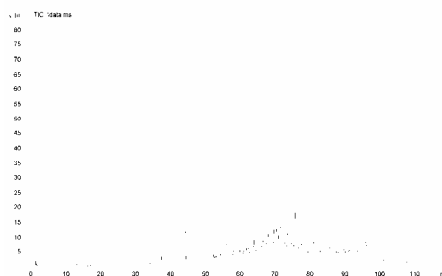


*Rev. Roum. Chim.*, **2010**, 55(5), 343-348

**Key words:** homology; 2rh1 PDB template; GPCR; 3D-model;  
 $\alpha$ 2B-adrenergic receptor.

**Marian VÎRGOLICI, Irina PETROVICIU,  
Eugenia TEODOR, Simona LIȚESCU,  
Mihaela MANEA, Corneliu PONTA,  
Gheorghe NICULESCU, Costel SÂRBU and  
Andrei MEDVEDOVICI**

TD/CGC/MS and FT-IR characterization of  
archaeological amber artefacts from Roumanian  
collections (Roman age)

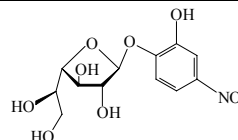


*Rev. Roum. Chim.*, **2010**, 55(5), 349-355

**Key words:** archaeological amber; thermal desorbition; GC/MS; Fourier  
transform infrared spectroscopy; principal components analysis.

**Dumitru Petru IGA, Silvia IGA,  
Alina NICOLESCU and  
Nicoleta-Aurelia CHIRA**

Synthesis of a new substrate for exo-  
galactofuranosidases, 2-hydroxy-4-nitrobenzene  
1-yl  $\beta$ -D-galactofuranoside



*Rev. Roum. Chim.*, **2010**, 55(5), 357-363

**Key words:** nitrocatechol  $\beta$ -D-galactofuranoside,  
 $\beta$ -D-galactofuranosepentaacetate, NMR spectra.

**Niculae I. IONESCU and  
Monica CĂIDĂRARU**

Adsorption kinetics in the system ZnO fine  
powder/O<sub>2</sub>

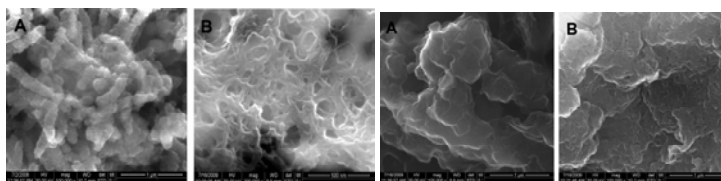
$$\frac{dQ}{dt} = A\gamma P_{O_2} \exp\left(-\frac{eR}{\varepsilon kT} Q\right)$$

*Rev. Roum. Chim.*, **2010**, 55(5), 365-367

**Key words:** adsorption, logarithmic rate law.

**Viorel BRĂNZOI, Florina BRĂNZOI,  
Luisa PILAN and Nicoleta DONISAN**

The characterization of some nanocomposites  
based on conducting polymers and carbon  
nanotubes obtained by co-polymerization



*Rev. Roum. Chim.*, **2010**, 55(5), 369-378

**Key words:** nanocomposite films, polypyrrole, poly(o-phenylenediamine),  
polyaniline, carbon nanotubes, cyclic voltammetry, SEM, EIS.

