

# REVUE ROUMAINE DE CHIMIE (ROMANIAN JOURNAL OF CHEMISTRY)

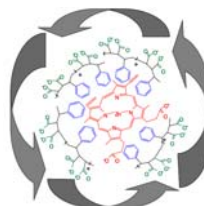
Tome 55, N° 8

Août 2010

## REVIEW

Lucretiu CISMARU and Marcel POPA

Polymeric nanoparticles with biomedical applications



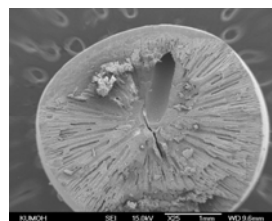
Rev. Roum. Chim., 2010, 55(8), 433-442

**Key words:** nanoparticles, drug delivery, gene delivery, emulsion polymerization.

## PAPERS

Xiao WANG, Byung Gil MIN, Won-Seok LYOO,  
Viorel CHIHAI, Mariuca GARTNER,  
Tionica F. STOICA, Jae Young BAE  
and Soong-Hyuck SUH

Column study of cadmium adsorption onto  
polyacrylonitrile/hydroxyapatite composite bead

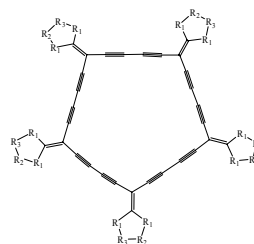


Rev. Roum. Chim., 2010, 55(8), 443-447

**Key words:** cadmium, adsorption, polyacrylonitrile, hydroxyapatite, composite.

Zhouyang LUO, Zhangqin Ni, Longyi ZHU  
and Qiwen TENG

Electronic structures and spectra of 1,3-  
dithiolanradialene

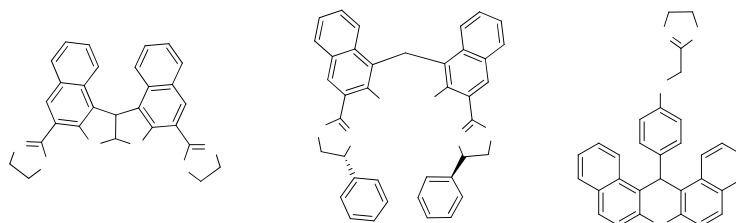


Rev. Roum. Chim., 2010, 55(8), 449-454

**Key words:** 1,3-dithiolanradialene, energy gap, red-shift, excited state, B3LYP/6-31G(d).

Duygu ERGUNES, Zeynep KOKCE,  
Okan SIRKECIOGLU and Naciye TALINLI

Novel *N-O* type oxazoline ligands

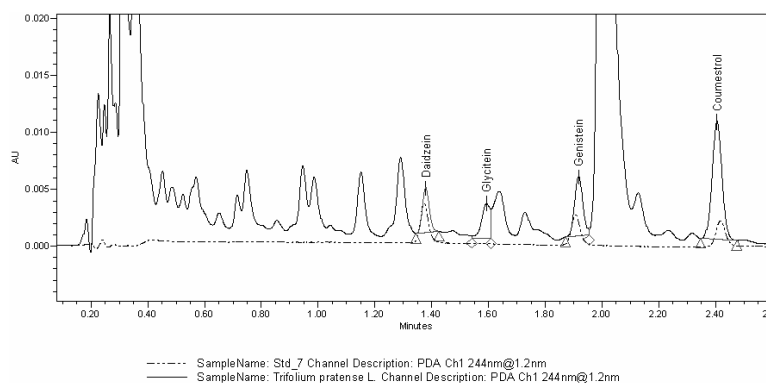


Rev. Roum. Chim., 2010, 55(8), 455-458

**Key words:** oxazolines, tetradentant, chiral, BINOL-box, xaxox.

**Béla KISS, Daniela-Saveta POPA,  
Daniela HANGANU, Anca POP and  
Felicia LOGHIN**

Ultra-performance liquid chromatography method  
for the quantification of some phytoestrogens  
in plant material

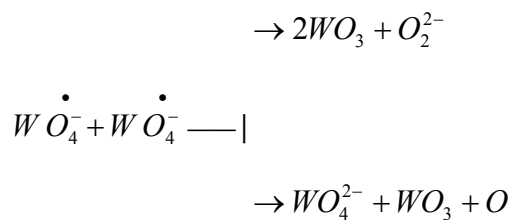


*Rev. Roum. Chim.*, 2010, 55(8), 459-465

**Key words:** daidzein, genistein, coumestrol, phytoestrogens,  
chromatography.

**Mihail CONTINEANU,  
Adina-Elena STANCIU and Ana NEACȘU**

Thermal annealing kinetics of radicals formed  
by the radiolysis in polycrystalline solid state  
of sodium wolframate

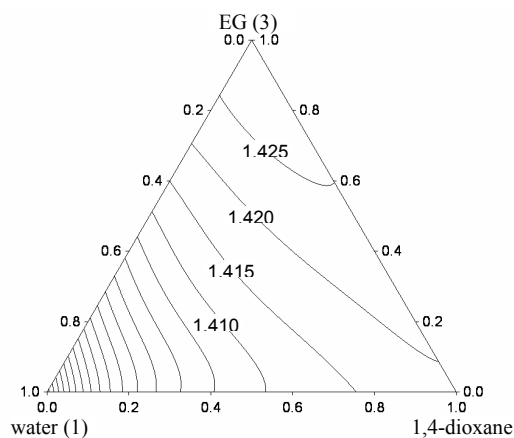


*Rev. Roum. Chim.*, 2010, 55(8), 467-474

**Key words:** paramagnetic centres, ionizing radiation, thermal  
disappearance, unpaired electron.

**Olga IULIAN, Amalia ȘTEFANIU,  
Oana CIOCÎRLAN and Oana CROITORU**

Property prediction for binary and ternary systems  
with water, 1,4-dioxane and ethylene glycol. II.  
Refractive index

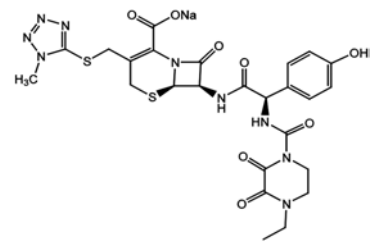
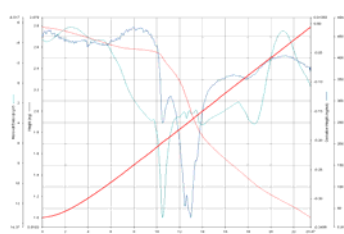


*Rev. Roum. Chim.*, 2010, 55(8), 475-480

**Key words:** refractive index, prediction, ethylene glycol.

**Adriana FULIAȘ, Gabriela VLASE,  
Titus VLASE, Bogdan TIȚA, Dumitru TIȚA  
and Nicolae DOCA**

Thermal study of cefoperazone monohydrate

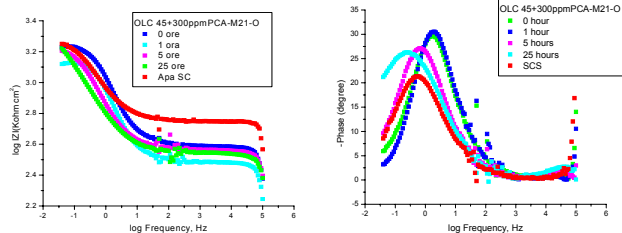


*Rev. Roum. Chim.*, 2010, 55(8), 481-486

**Key words:** cefoperazone, thermal analysis, EGA, evolved gases,  
FT-IR spectra.

**Florina BRÂNZOI, Viorel BRÂNZOI  
and Iulia HĂRĂBOR**

New friendly environment inhibitors for anticorrosive protection of cooling water systems

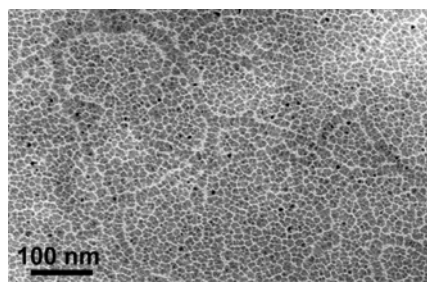


**Key words:** organic inhibitors, microwaves energy, cooling water systems, electrochemical polarization and metallurgical microscopy techniques.

*Rev. Roum. Chim.*, 2010, 55(8), 487-500

**Marin MICUTZ, Teodora STAICU,  
Dorin ŞULEA, Minodora LECA  
and Corneliu GHICA**

Adsorption complexes of collagenous polypeptide-ionic surfactant in aqueous medium.  
2. The influence of adsorption complexes of polypeptide-ionic surfactant on thermal stability of collagen type I



**Key words:** collagen type I, collagen denaturation, ionic surfactant, circular dichroism, activation energy of viscous flow.

*Rev. Roum. Chim.*, 2010, 55(8), 501-510