

# REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

Tome 57, N<sup>os</sup> 9-10

Septembre-Octobre 2012

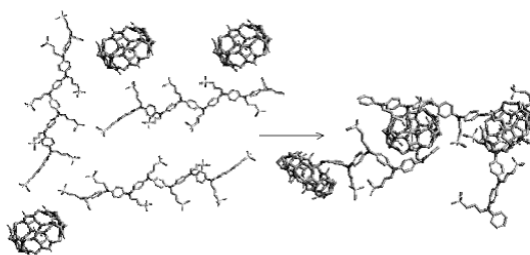
## 10<sup>th</sup> CONFERENCE ON COLLOID AND SURFACE CHEMISTRY

Rev. Roum. Chim., 2012, 57(9-10), 779

### PAPERS

Mircea GRIGORAS, Ana-Maria CATARGIU  
and Daniel TIMPU

Modification of polyanilines properties using  
macrocyclic compounds

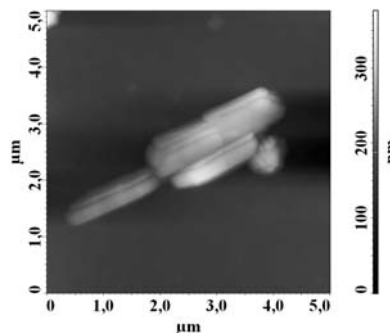


**Key words:** polyaniline derivatives, macrocyclic compounds,  $\beta$ -cyclodextrin, cucurbit[6]uril, pseudorotaxane structure, physically crosslinked networks.

Rev. Roum. Chim., 2012, 57(9-10), 781-790

Mariana-Dana DĂMĂCEANU,  
Radu-Dan RUSU, Maria BRUMĂ  
and Luminita Marin

Self-organised films of polyimides containing  
perylene discotic mesogens

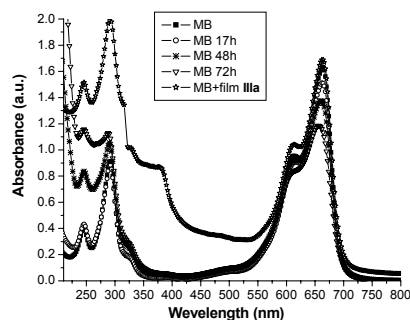


**Key words:** polyimides, perylene, discotic mesogene, self-assembling, rod-like structure.

Rev. Roum. Chim., 2012, 57(9-10), 791-797

Mariana-Dana DĂMĂCEANU,  
Radu-Dan RUSU and Maria BRUMĂ

Radical-forming polyamides  
for self-decontamination coatings

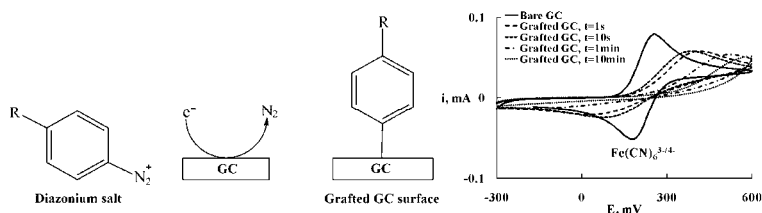


**Key words:** polyamides, benzophenone, coatings, radical-forming ability, methylene blue.

Rev. Roum. Chim., 2012, 57(9-10), 799-806

**Matei RAICOPOL, Viorel BRÂNZOI,  
Luiza NECULA, Mariana IONIȚĂ and  
Luisa PILAN**

Comparative studies on the redox reaction of  $\text{Fe}(\text{CN})_6^{4-/3-}$  at modified glassy carbon electrodes via diazonium salts electroreduction

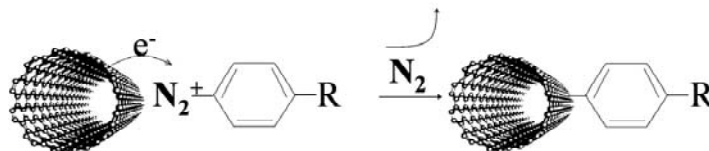


**Key words:** glassy carbon, electrochemical grafting, diazonium salt, redox probe.

*Rev. Roum. Chim.*, 2012, 57(9-10), 807-814

**Luisa PILAN, Matei RAICOPOL,  
Mariana IONIȚĂ and Viorel BRÂNZOI**

Electrochemical study on carbon nanotubes functionalization by diazonium salts electroreduction

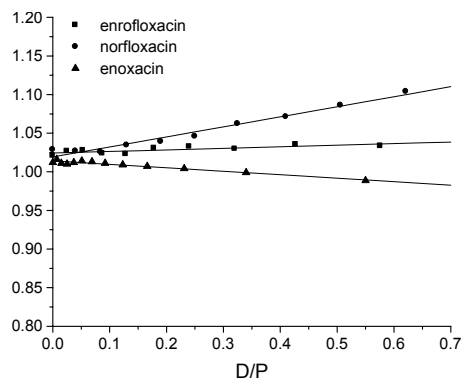


**Key words:** single walled carbon nanotubes, electrochemical functionalization, diazonium salt, electrochemical signal, aryl substituent.

*Rev. Roum. Chim.*, 2012, 57(9-10), 815-822

**Loredana Elena VÎJAN and Daniela GIOSANU**

Binding of norfloxacin, enoxacin and enrofloxacin to calf thymus DNA

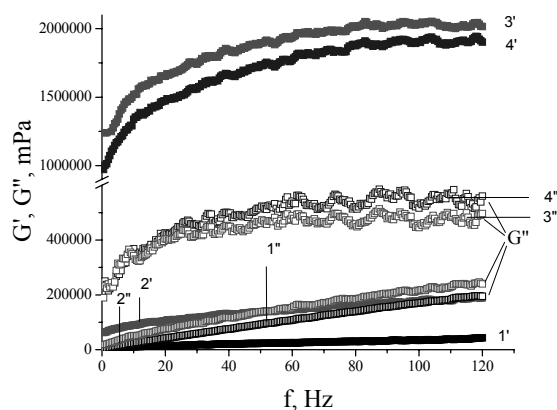


**Key words:** norfloxacin, enoxacin, enrofloxacin, calf thymus DNA, UV-Vis absorption spectroscopy, viscosity measurements.

*Rev. Roum. Chim.*, 2012, 57(9-10), 823-827

**Marin MICUTZ, Teodora STAICU,  
Lucia LĂCĂTUȘU, Gela OPREA and  
Minodora LECA**

Rheological behaviour of some dispersions for long lasting protection of copper-aluminium contacts in power transmission equipment

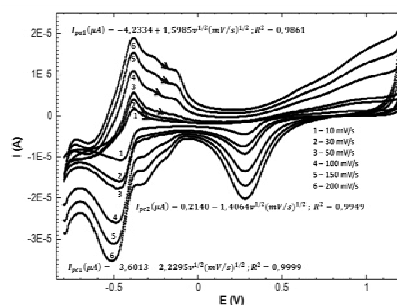


**Key words:** aluminium pigment, stationary and dynamic rheological behaviour, electric and heat conducting coatings, copper/aluminium joint protection.

*Rev. Roum. Chim.*, 2012, 57(9-10), 829-836

**Gheorghe NEMȚOI, Alexandra CIOMAGA and Tudor LUPAȘCU**

Voltammetric behaviour of Enoxil in aqueous medium of  $\text{NaClO}_4$  on platinum electrode

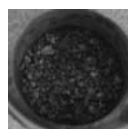
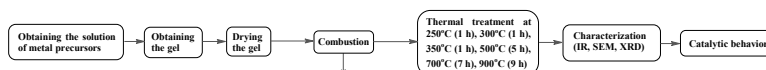


*Rev. Roum. Chim.*, 2012, 57(9-10), 837-841

**Key words:** Enoxil, cyclic voltammetry, quasi-reversible process.

**Anca Mihaela DUMITRESCU, Petrisor Mugurel SAMOILA, Valentin NICA, Alexandra Raluca IORDAN and Mircea Nicolae PALAMARU**

Study of catalytic effect of oxidic compounds of  $\text{NiFe}_2\text{O}_4$  type in processes of chemical degradation

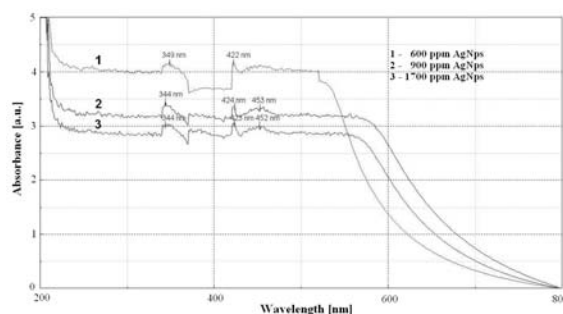


**Key words:** ferrite, spinel, sol-gel method, catalysis, hydrogen peroxide decomposition.

*Rev. Roum. Chim.*, 2012, 57(9-10), 843-848

**Magdalena LUNGU, Elena ENESCU, Florentina GRIGORE, Nicoleta BURUNTIA, Mariana LUCACI, Gimi RIMBU, Carmen PANZARU and Cezar IONESCU**

Chemical preparation and properties of some high concentrated colloidal silver solutions for antimicrobial applications

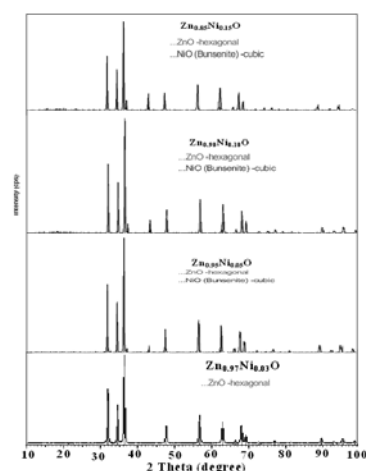


**Key words:** chemical synthesis, concentrated colloidal silver solutions, antimicrobial assays, biocidal activity.

*Rev. Roum. Chim.*, 2012, 57(9-10), 849-855

**Teodora MĂLĂERU, Jenica NEAMȚU, Cristian MORARI and Gabriela SBARCEA**

Structural and magnetic properties of nanocrystalline powders of Ni – doped ZnO diluted magnetic semiconductors synthesized by sol-gel method

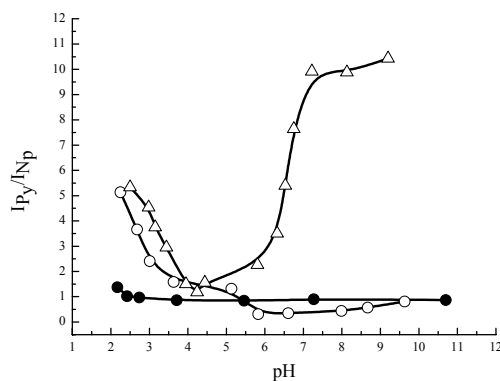


**Key words:** nanoparticles, sol-gel method, ferromagnetism, diluted magnetic semiconductor.

*Rev. Roum. Chim.*, 2012, 57(9-10), 857-862

Monica Elisabeta MAXIM, Gabriela STÎNGĂ,  
Adriana BĂRAN, Alina IOVESCU  
and Dan F. ANGHEL

Probing the micelle/water interface by  
non-radiative energy transfer

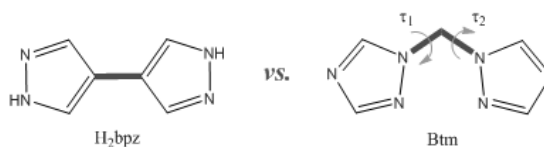


**Key words:** non-radiative energy transfer, micellar interface, aqueous media, pyrene labeled poly(acrylic acid), naphthalene probe.

*Rev. Roum. Chim.*, 2012, 57(9-10), 863-869

Aurel TĂBĂCARU, Claudio PETTINARI,  
Riccardo PETTINARI and  
Mariglen ANGJELLARI

Rigidity *versus* flexibility of the ligand upon the  
porosity degree of new metal-organic polymeric  
materials

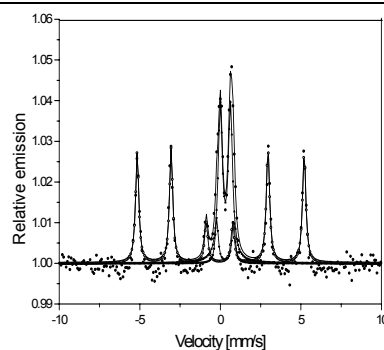


**Key words:** rigidity, flexibility, porosity, 4,4'-bipyrazole,  
bis(1,2,4-triazolyl)methane.

*Rev. Roum. Chim.*, 2012, 57(9-10), 871-875

Ion BIBICU

Mössbauer spectroscopy applied to surfaces study



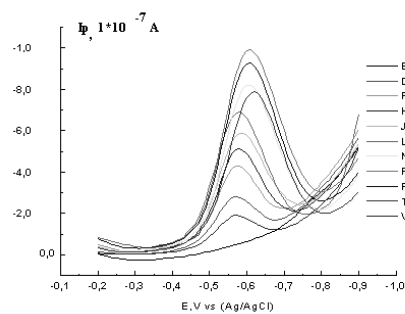
**Key words:** Mössbauer spectroscopy, surface Mössbauer spectroscopy,  
 $^{57}\text{Fe}$ ,  $^{119}\text{Sn}$ , corrosion.

*Rev. Roum. Chim.*, 2012, 57(9-10), 877-889

NOTE

Tatiana CAZAC, Ludmila KIRIYAK and  
Igor POVAR

Determination of vanadium trace on the mercury  
drop electrode by cathodic voltammetry



**Key words:** cathodic stripping voltammetry, mercury drop electrode,  
complex-vanadium- 2,3-dihydroxybenzaldehyde- bromate-ions.

*Rev. Roum. Chim.*, 2012, 57(9-10), 891-895

