

# REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

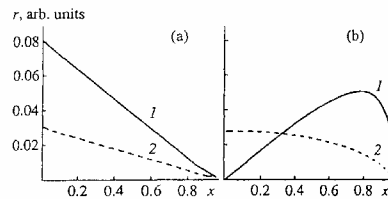
Tome 53, N° 2

Février 2008

## REVIEW

**Emilia BALABANOVA**

Synthesis of nanostructured materials by means of thermal plasma. Modelling of the processes



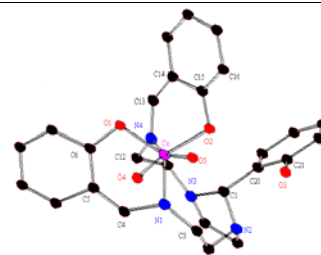
*Rev. Roum. Chim.*, 2008, 53(2), 83–100

**Key words:** catalysis, kinetics, deactivation, reaction mechanism.

## PAPERS

**Achour TERBOUCHE, Safia DJEBBAR,  
Ouassini BANALI-BAITICH,  
Mustayeen KHAN and Gilles BOUET**

Stability and molecular modelling of cobalt(II) and nickel(II) with polydentate Schiff base

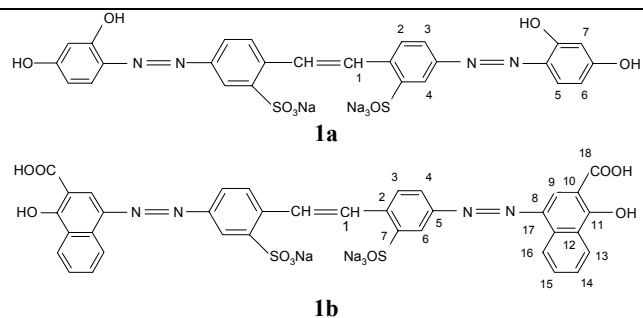


**Key words:** polydentate ligand, complexes, potentiometry, stability constants, molecular modelling.

*Rev. Roum. Chim.*, 2008, 53(2), 101–106

**Maria Elena GRAD, Georgeta Maria SIMU,  
Alfa Xenia LUPEA, Ștefan TOMAS and  
Aurelia PASCARIU**

Synthesis and colour assessment of some new stilbene azo dyes

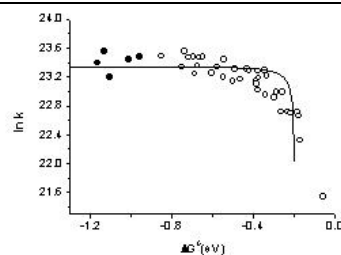


*Rev. Roum. Chim.*, 2008, 53(2), 107–111

**Key words:** azo-stilbene dyes, colour analysis.

**Cristina TABLET, Magda FIFIRIG and  
Mihaela HILLEBRAND**

An alternative approach on electron transfer mechanism of the fluorescence quenching of 3-carboxy-5,6-benzocoumarin by some aromatic amines

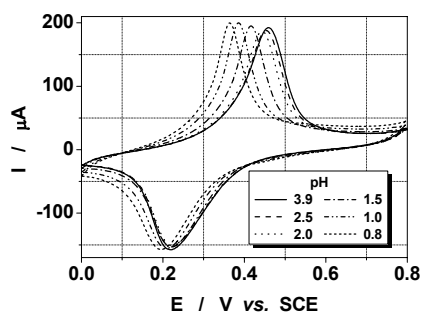


*Rev. Roum. Chim.*, 2008, 53(2), 113–117

**Key words:** coumarin derivative, fluorescence quenching, electron transfer models.

Vasile COMAN, Liana M. MUREȘAN,  
Silvia LOZOVANU, Luminița SILAGHI-  
DUMITRESCU and Ionel Cătălin POPESCU

Meso-tetraferrocenyl-tetramethylcalix[4]pyrrole-  
modified graphite electrode with anion recognition  
properties

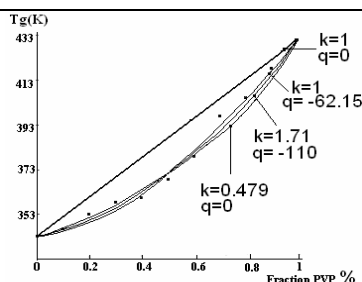


*Rev. Roum. Chim.*, 2008, 53(2), 119–125

**Key words:** ferrocene-calix[4]pyrrole, anions electrochemical recognition.

Vasile Cristian GRIGORAȘ and  
Virgil BĂRBOIU

Characteristics of compatible binary polymer  
blends deduced from DSC thermograms. 1. A study  
on polyvinyl alcohol-polyvinyl pyrrolidone  
mixtures

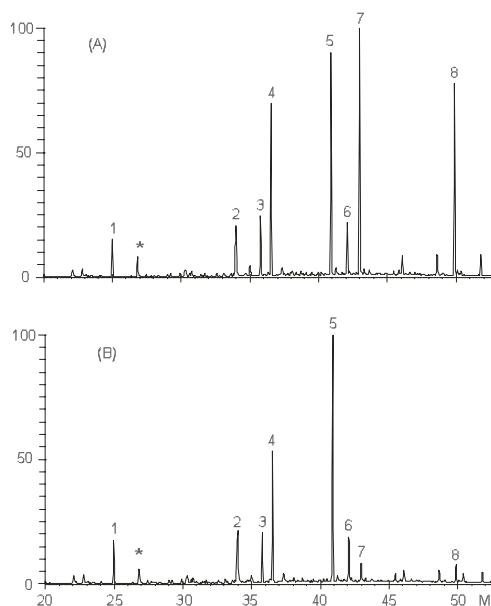


*Rev. Roum. Chim.*, 2008, 53(2), 127–131

**Key words:** miscibility, interactions, glass transition, DSC method.

Alina Catrinel ION and Ion ION

Observations on some polar organic compounds in  
rural aerosols

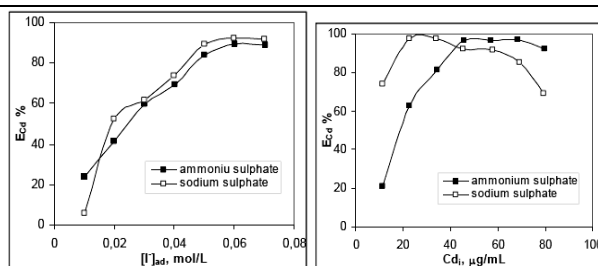


*Rev. Roum. Chim.*, 2008, 53(2), 133–139

**Key words:** atmospheric aerosols, gas chromatography-mass spectrometry, organic carbon.

Laura BULGARIU and Dumitru BULGARIU

The influence of phase-forming salts on Cd(II)  
extraction in aqueous PEG-based two-phase  
systems



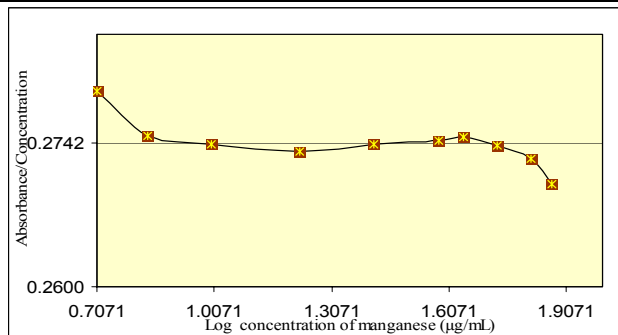
*Rev. Roum. Chim.*, 2008, 53(2), 141–147

**Key words:** aqueous two-phase system, phase-forming salt, polyethylene glycol, Cd(II) extraction, iodide ions.

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**Mihaela SCRIPCARIU, Ion Gh. TĂNASE,  
Șerban FLESCHEAN and Vasile MAGEARU**

The determination of manganese in pharmaceutical  
products of veterinary use



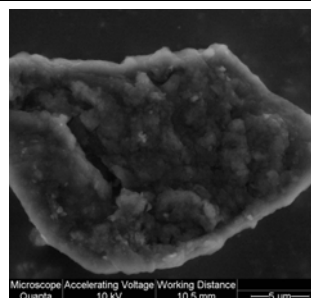
**Key words:** manganese analysis, quantitative determination, validation parameters.

*Rev. Roum. Chim.*, 2008, 53(2), 149–155

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**Mihaela OLTEANU, Diana ACHIMESCU,  
Zina VULUGA and Viorica TRANDAFIR**

Measurement and interpretation of wetting  
properties of new collagen-silicate biomaterial



*Rev. Roum. Chim.*, 2008, 53(2), 157–163

**Key words:** collagen-silicate biomaterials, wettability, nanocomposites.

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