

# REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

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## PAPERS

**Romulus Fabian TATU, Erwin SALLO, Valentin CAREJA, Zeno SIMON, Ludovic SAYTI, Ramona TUDOSE and Carmen TATU**

$$\vec{V}(\vec{R}) = \frac{1}{4\pi\epsilon_0} \sum_i \frac{q_i}{|\vec{R}_i - \vec{r}|}$$

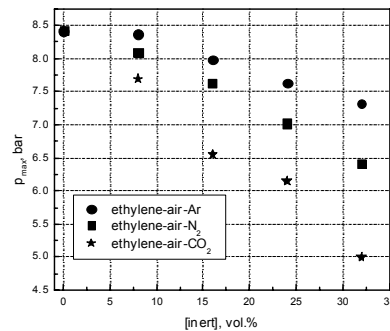
Electrostatic potential and its role in hydroxyapatite precipitation

*Rev. Roum. Chim.*, 2011, 56(1), 5-10

**Key words:** electrostatic potential, hydroxyapatite, crystalline net

**Codina MOVILEANU, Domnina RAZUS and Dumitru OANCEA**

Additive effects on explosion pressure and flame temperature of stoichiometric ethylene-air mixture in closed vessels

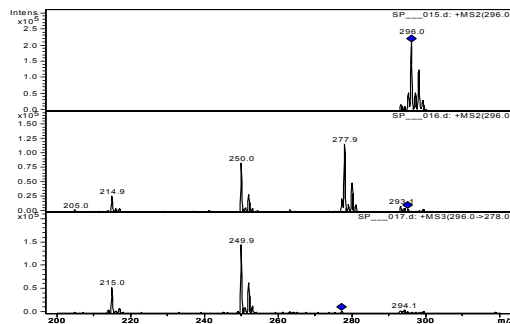


*Rev. Roum. Chim.*, 2011, 56(1), 11-17

**Key words:** explosion, closed vessel, ethylene, additive effect

**Dana MUNTEAN, Laurian VLASE, Rodica CUCIUREANU and Magdalena CUCIUREANU**

LC-MS/MS method for the quantification of diclofenac from human plasma and its application to pharmacokinetic studies

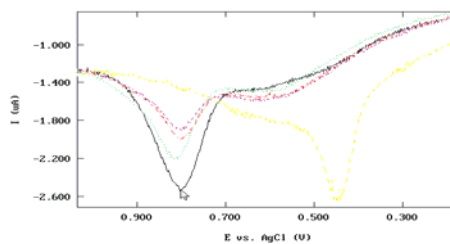


*Rev. Roum. Chim.*, 2011, 56(1), 19-24

**Key words:** diclofenac, liquid chromatography, method validation, human plasma

**Simona-Carmen LIȚESCU, Eliza OPREA, Mirela DIACONU and Gabriel-Lucian RADU**

A rapid determination of radical scavenger properties of plant extracts using electrochemical approach

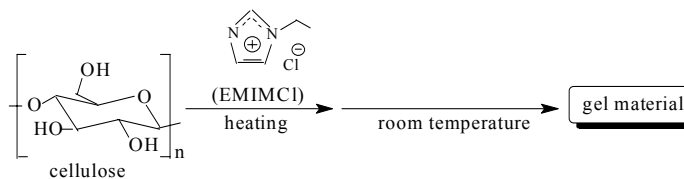


*Rev. Roum. Chim.*, 2011, 56(1), 25-32

**Key words:** anthocyanins, polyphenols, square-wave voltammetry, antioxidants, free radical scavenging

Carmen-Alice TEACĂ, Ruxanda BODÎRLĂU  
and Iuliana SPIRIDON

Dissolution of natural polymers in ionic liquid

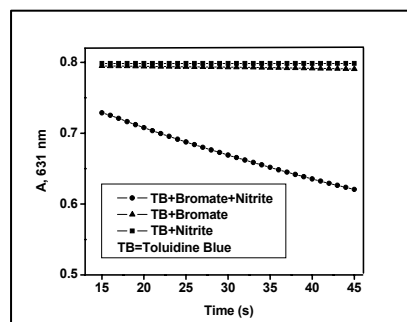


**Key words:** cellulose, wood, ionic liquid, FTIR spectroscopy,  
X-ray diffraction

*Rev. Roum. Chim.*, 2011, 56(1), 33-38

Zenovia MOLDOVAN

Kinetic-spectrophotometric determination  
of nitrite by its accelerating effect on the  
oxidation of toluidine blue by bromate

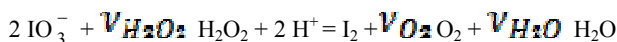
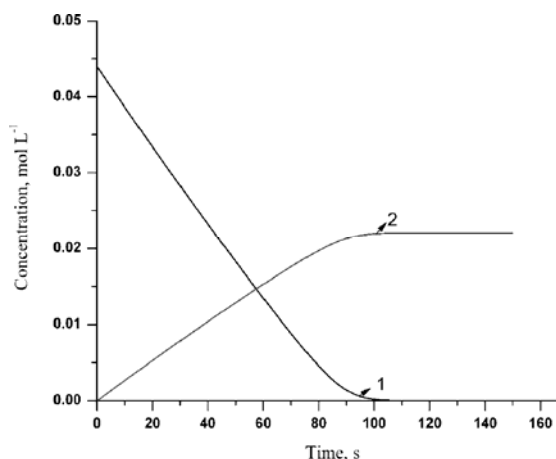


**Key words:** cellulose, wood, ionic liquid, FTIR spectroscopy,  
X-ray diffraction

*Rev. Roum. Chim.*, 2011, 56(1), 39-46

Rodica NIȚOI and Gelu BOURCEANU

A study of the dynamic of iodine formation  
in the Mn(II) catalysed Bray-Liebhafsky reation

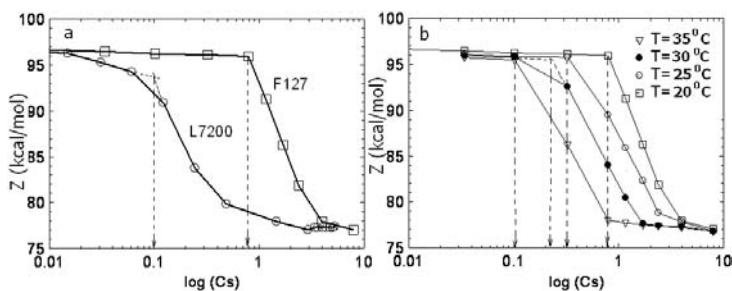


*Rev. Roum. Chim.*, 2011, 56(1), 47-55

**Key words:**  $[\text{Mn}^{\text{II}}\text{IO}_3]^+$  complex ion,  $\text{I}_2$  formation, reaction mechanism

Marilena VASILESCU and Rodica  
BANDULA

Aggregation of Pluronic F127 and  
polydimethylsiloxane-graft-polyether block  
copolymers in water and microstructure  
of aggregates as evaluated by molecular probe  
techniques



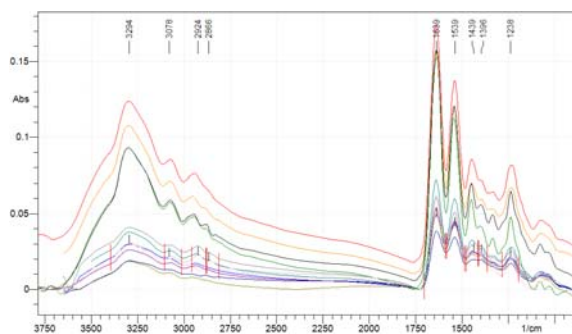
**Key words:** fluorescence probe, absorption probe, Pluronic F127,  
poly(dimethylsiloxane)-graft-polyether, micropolarity,  
microviscosity

*Rev. Roum. Chim.*, 2011, 56(1), 57-64

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**Dorin ȘULEA, Mădălina Georgiana ALBU,  
Mihaela Violeta GHICA, Lavinia  
BRĂZDARU, Minodora LECA and  
Lăcrămioara POPA**

Characterization and *in vitro* release of  
chlorhexidine digluconate contained in type I  
collagen porous matrices



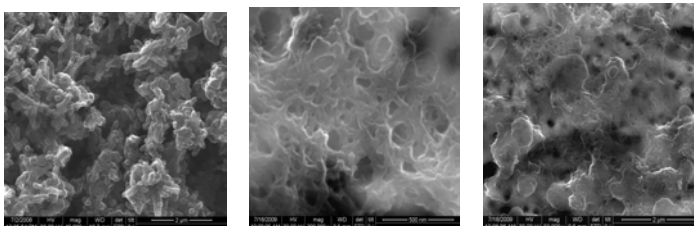
*Rev. Roum. Chim.*, **2011**, 56(1), 65-71

**Key words:** collagen porous matrices, chlorhexidine digluconate, FT-IR, SEM, chlorhexidine digluconate delivery from collagen matrices

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**Viorel BRÂNZOI, Florina BRÂNZOI,  
Ancuța MUȘINA and Luisa PILAN**

Modified electrodes obtained by electrochemical  
codeposition of some conducting polymers and  
carbon nanotubes



*Rev. Roum. Chim.*, **2011**, 56(1), 73-84

**Key words:** single-walled carbon nanotubes, polyaniline, composite films, cyclic voltammetry, EIS, SEM

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