

REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

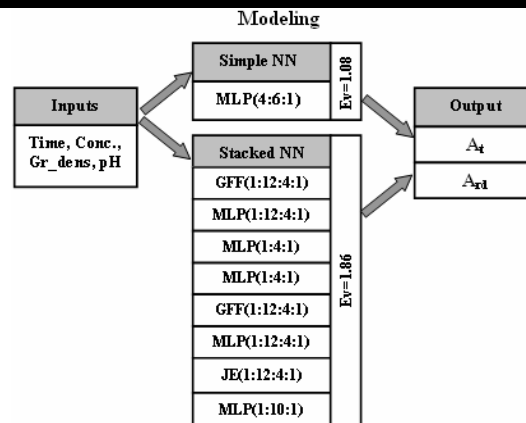
Tome 55, N° 2

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PAPERS

Ciprian George PIULEAC,
Silvia CURTEANU and Maria CAZACU

Stacked neural network modeling applied to the process of metal ion sorption by the functional silica xerogel



Rev. Roum. Chim., 2010, 55(2), 85-97

Key words: functionalized silica, metal uptake, azomethine, stacked neural networks, modeling.

Nicoleta-Gabriela MUŞAT,
Valentin MUNTEANU, Mihaela PUIU,
Domnina RĂZUŞ and Dumitru OANCEA

Ignition and quenching of flammable *n*-butane-air mixture at various initial pressures. Critical properties

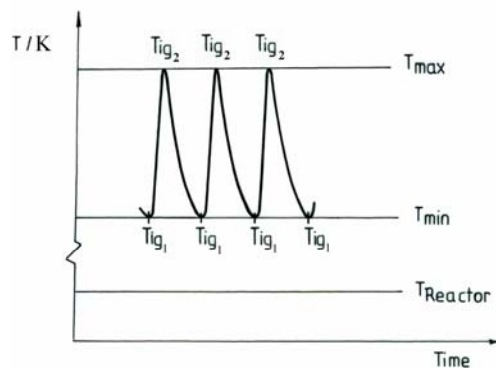


Rev. Roum. Chim., 2010, 55(2), 99-103

Key words: quenching distance, minimum ignition energy, maximum experimental safe gap.

Nicolae I. IONESCU, Nils I. JAEGER,
Peter J. PLATH and Cristian HORNOIU

Ignition of catalytic oxidation of ethanol in oscillatory regime

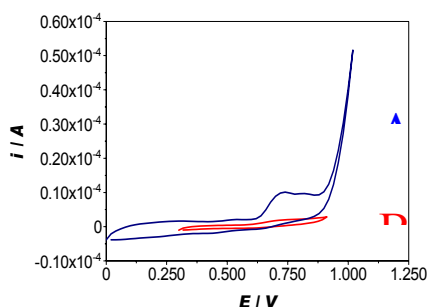


Rev. Roum. Chim., 2010, 55(2), 105-108

Key words: ignition, oscillations, activation energy.

**Andreea LUNGU, Ileana SANDU,
Cristian BOSCORNEA, Stefan TOMAS and
Constantin MIHAILCIU**

Electrochemical study of curcumin and
bisdemethoxycurcumin on activated glassy
carbon electrode

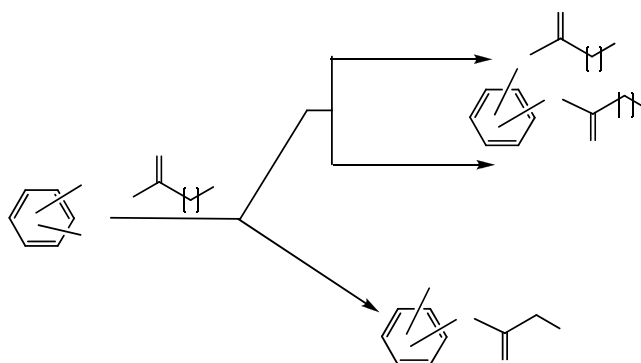


Key words: curcumin, bisdemethoxycurcumin, anodically activated GCE, cyclic voltammetry and differential pulse voltammetry.

Rev. Roum. Chim., **2010**, 55(2), 109-115

**Gheorghita N. ZBANCIOC,
Ana Maria V. ZBANCIOC and
Ionel I. MANGALAGIU**

Microwave-assisted synthesis of aromatic bis-
esters in liquid phase

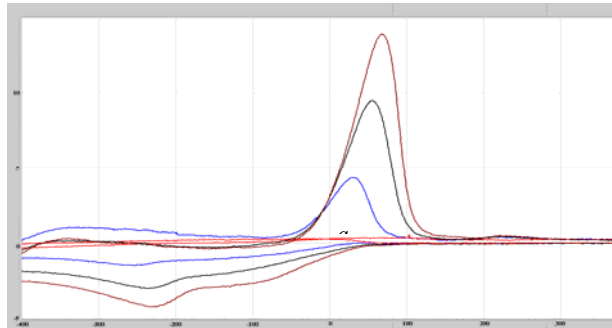


Rev. Roum. Chim., **2010**, 55(2), 117-122

Key words: microwave, mono- and bis- esters, liquid phase, eco-friendly.

**Dana Elena POPA, Mihaela BULEANDRĂ,
Mihaela MUREȘEANU, Marcel IONICĂ and
Ion Gh. TĂNASE**

Carbon paste electrode modified with
organofunctionalized mesoporous silica for
electrochemical detection and determination of
copper(II) using cyclic voltammetry and anodic
stripping voltammetry

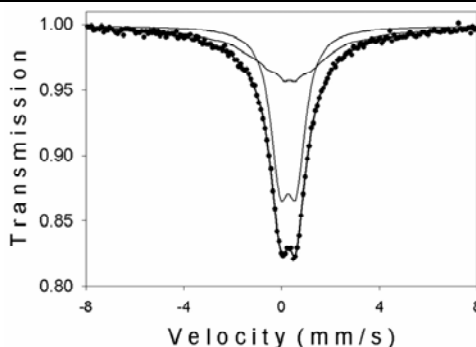


Rev. Roum. Chim., **2010**, 55(2), 123-130

Key words: copper, modified carbon paste electrode, organofunctionalized silica, cyclic voltammetry, anodic stripping voltammetry

**Daniela C. CULIȚĂ, Gabriela MARINESCU,
Luminița PATRON and
Lucian DIAMANDESCU**

Synthesis and characterization of maltol modified
magnetite nanoparticles

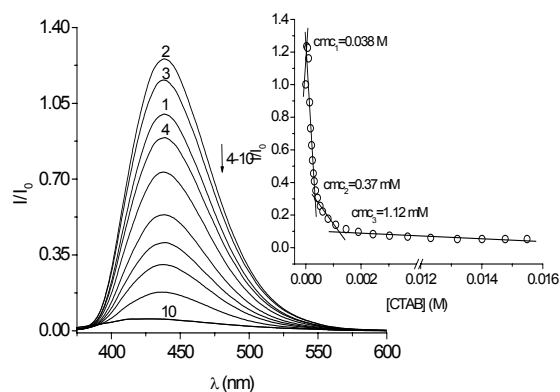


Rev. Roum. Chim., **2010**, 55(2), 131-135

Key words: functionalized magnetite, superparamagnetism, FTIR, TEM, Mössbauer spectroscopy.

Cristina TABLET, Sorana IONESCU and Mihaela HILLEBRAND

Fluorimetric characterization of the interaction of 3-carboxy-5,6-benzocoumarinic acid with micelles

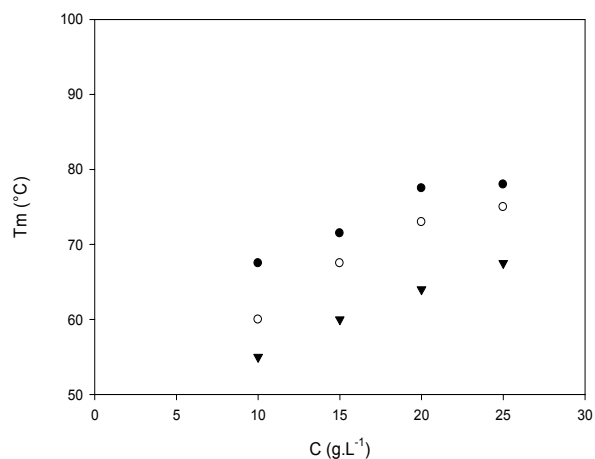


Rev. Roum. Chim., 2010, 55(2), 137-146

Key words: coumarin derivative, micelle, fluorescence, binding constants.

Anca BEJENARIU, Marcel POPA, Luc PICTON and D. LE CERF

Effect of concentration, pH and temperature on xanthan conformation: a preliminary study before crosslinking



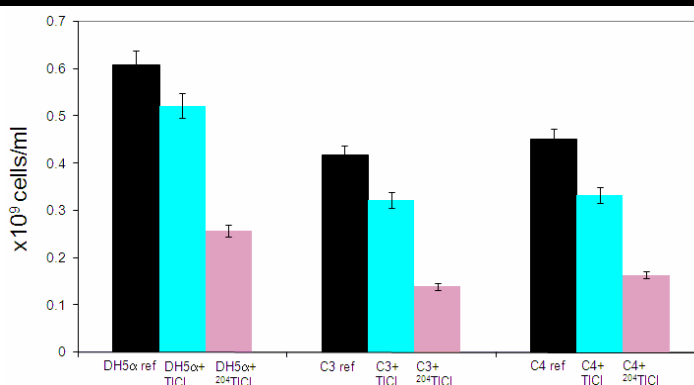
Rev. Roum. Chim., 2010, 55(2), 147-152

Key words: xanthan, conformation, hydrogels.

NOTE

Dan Tiberiu COSTIN, Robert Vasile GRĂDINARU, Gheorghe NEMȚOI and Karin POPA

Insight on the $^{204}\text{Tl}^+$ – *Escherichia coli* system



Rev. Roum. Chim., 2010, 55(2), 153-156

Key words: chemotoxicity, *Escherichia coli*, radiotoxicity, reduction, $^{204}\text{Tl}^+$.