

# REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

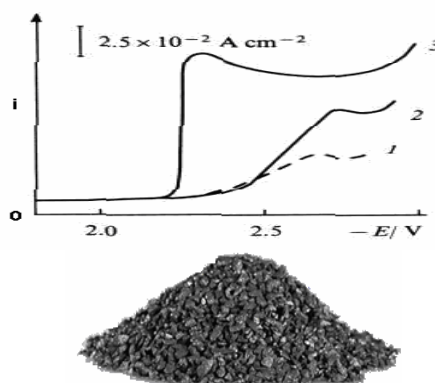
Tome 54, N° 1

Janvier 2009

## REVIEW

Victor MALYSHEV, Angelina GAB,  
Diana-Maria BRUSKOVA, Igor ASTRELIN,  
Ana-Maria POPESCU and  
Virgil CONSTANTIN

Electroreduction processes involving titanium and boron species in halide melts



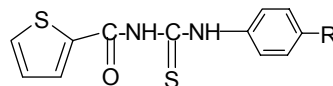
Rev. Roum. Chim., 2009, 54(1), 5-25

**Key words:** TiB<sub>2</sub>, halide melts, electrodeposition, electrosynthesis, molten salts.

## PAPERS

Carmellina Daniela BĂDICEANU and  
Alexandru-Vasile MISSIR

Synthesis and characterization of some new thioureides of 2-thiophenecarboxylic acid with potential pharmacological activity



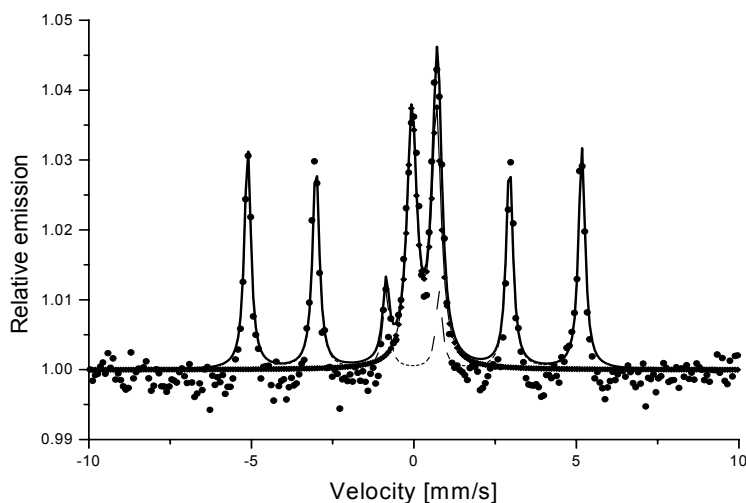
R = -OCH<sub>3</sub> (o,m,p) (a-c), -CH<sub>3</sub> (o,m,p) (d-f)

Rev. Roum. Chim., 2009, 54(1), 27-31

**Key words:** thiourea derivatives, thioureides, 2-thiophenecarboxylic acid.

Adriana SAMIDE and Ion BIBICU

A new inhibitor for corrosion of carbon steel in hydrochloric acid solution

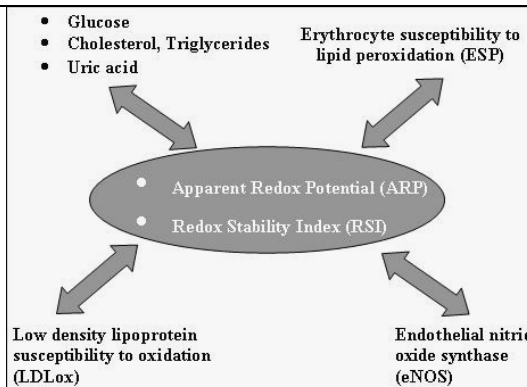


Rev. Roum. Chim., 2009, 54(1), 33-43

**Key words:** carbon steel, corrosion test, inhibition, electrochemical techniques, Mössbauer spectroscopy.

**Denisa MARGINĂ, Daniela GRĂDINARU and Niculina MITREA**

Development of a potentiometric method for the evaluation of redox status in human serum

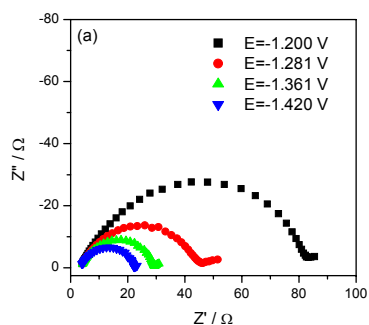


*Rev. Roum. Chim.*, 2009, 54(1), 45-48

**Key words:** apparent redox potential, redox stability index, redox stress.

**Anca COJOCARU, Gabriela Elena BADEA, Ioana MAIOR, Petru CREȚ and Teodora BADEA**

Kinetics of the hydrogen evolution reaction on 18Cr-10Ni stainless steel in seawater. I. Influence of potential

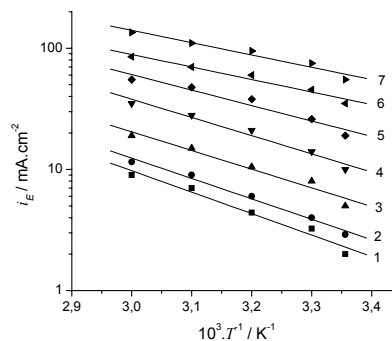


**Key words:** hydrogen evolution reaction, stainless steel, artificial seawater, steady-state voltammetry, electrochemical impedance spectroscopy.

*Rev. Roum. Chim.*, 2009, 54(1), 49-54

**Gabriela Elena BADEA, Ioana MAIOR, Anca COJOCARU, Ioan PANTEA and Teodora BADEA**

Kinetics of the hydrogen evolution reaction on 18Cr-10Ni stainless steel in seawater. II. Influence of temperature

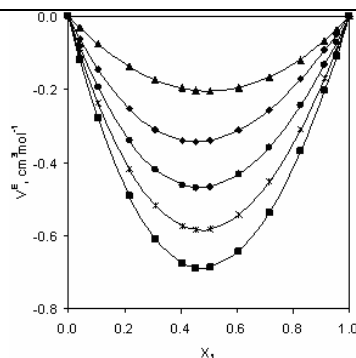


**Key words:** hydrogen evolution reaction, stainless steel, seawater, activation energy, activationless process.

*Rev. Roum. Chim.*, 2009, 54(1), 55-61

**Ligia-Maria OMOTA, Olga IULIAN, Florin OMOTA and Oana CIOCÎRLAN**

Densities and derived properties of water, 1,4-dioxane and dimethyl sulfoxide binary and ternary systems at temperatures from 293.15K to 313.15K



*Rev. Roum. Chim.*, 2009, 54(1), 63-73

**Key words:** excess volume, 1,4-dioxane, dimethyl sulfoxide, water.

**Sandu PERETZ, Mihaela OLTEANU et  
Cristina STOIAN**

Microparticules de chitosan et d'alginate formées  
en présence des tensioactifs

Microparticles of chitosan and alginate  
synthesized in presence of surfactants

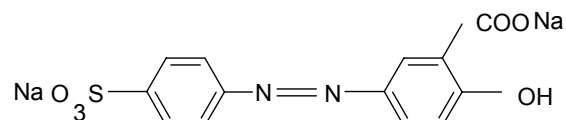


*Rev. Roum. Chim.*, 2009, 54(1), 75-83

**Key words:** chitosan, alginate, microparticule, tensioactif, polymère.

**Luminița VLĂDESCU and Cristian F. RADU**

Solochrome Yellow 2GS as organic reagent for  
spectrometric determination of iron(III)

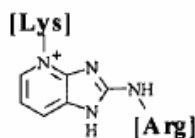


*Rev. Roum. Chim.*, 2009, 54(1), 85-92

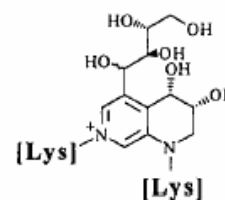
**Key words:** iron(III), Solochrome Yellow 2GS, UV-VIS spectrometry.

**Iren Andreea SERBAN, Eduard CONDAC,  
Marieta COSTACHE and  
Anca DINISCHIOTU**

The relationship between AGEs,  $\text{Cu}^{2+}$  and  
crosslinking of collagen



**Pentosidine**



**Crossline**

*Rev. Roum. Chim.*, 2009, 54(1), 93-102

**Key words:** Advanced Glycation and Products (AGEs),  $\text{Cu}^{2+}$ , reactive oxygen species (ROS), collagen, fluorescence.

