

# REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

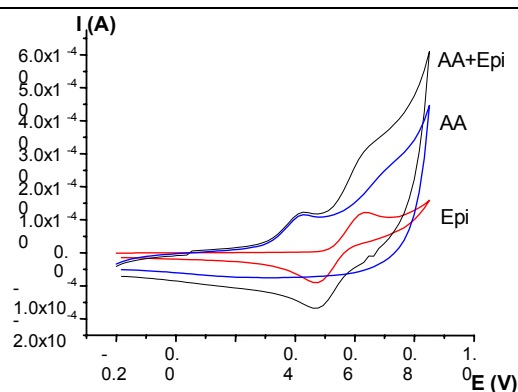
Tome 55, N° 1

Janvier 2010

## PAPERS

Constantin MIHAILCIUC and Stelian LUPU

Determination of ascorbic acid in the presence of epinephrine at Pt electrode modified with poly(3-methylthiophene)

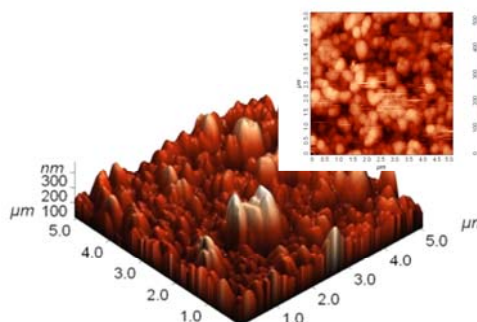


*Rev. Roum. Chim.*, 2010, 55(1), 5-9

**Key words:** epinephrine, ascorbic acid, cyclic voltammetry.

Alexandru ENEȘCA, Luminița ANDRONIC and Anca DUȚĂ

Influence of sodium ions ( $\text{Na}^+$ ) dopant on the efficiency of the tungsten trioxide photoelectrode

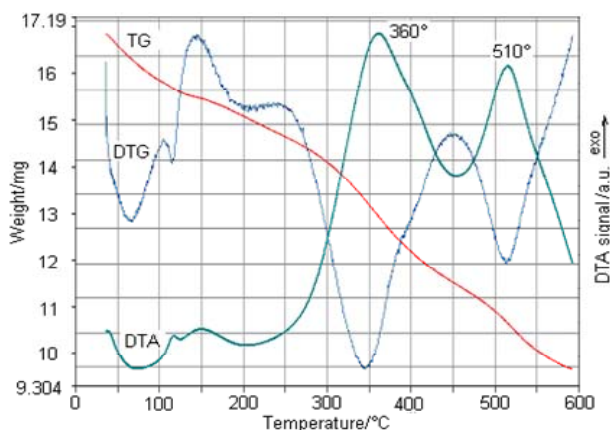


*Rev. Roum. Chim.*, 2010, 55(1), 11-15

**Key words:**  $\text{WO}_3$ , dopant ions, thin films, photoelectrode, optoelectric properties.

Mircea ȘTEFĂNESCU, Marcela STOIA, Oana ȘTEFĂNESCU, Corneliu DAVIDESCU, Gabriela VLASE and Paula SFÎRLOAGĂ

Synthesis and characterization of poly(vinyl alcohol)/ethylene glycol/silica hybrids. Thermal analysis and FT-IR study



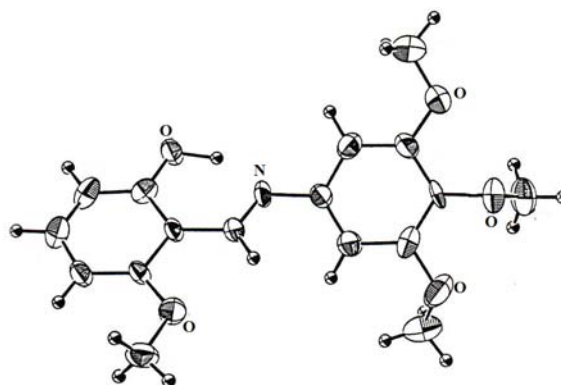
*Rev. Roum. Chim.*, 2010, 55(1), 17-23

**Key words:** ethylene glycol; hybrid; poly(vinyl alcohol); tetra(ethyl)ortosilicate.

**Charles Guillaume KODJO, Hervé ZABRI,  
Bosson Antoine KOUAME et  
Jacques ESTIENNE**

Corrélation structure-activité physicochimique  
de la 3,4,5-triméthoxy *N*-(6-méthoxy  
salicylidène)aniline

Structure-activity relationship in 3,4,5-  
trimethoxy *N*-(6-methoxy salicylidene) aniline

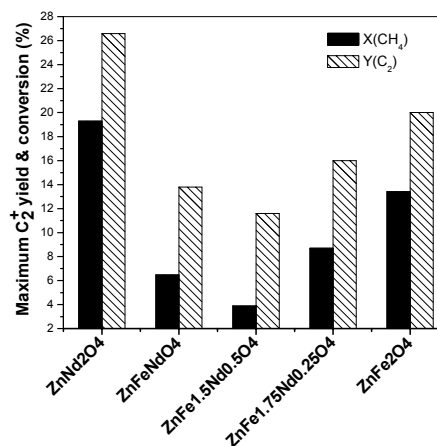


**Key words:** salicylideneaniline,  $\gamma$  structural mode,  $\pi\cdots\pi$  interaction,  
thermochromic, photochromic.

*Rev. Roum. Chim.*, **2010**, 55(1), 25-31

**Florica PAPA, Luminița PATRON,  
Oana CARP, Carmen PARASCHIV and  
Ioan BALINT**

Catalytic behavior of neodymium substituted zinc  
ferrites in oxidative coupling of methane



**Key words:** oxidative coupling of methane, methane oxidative conversion,  
oxide surface basicity, lanthanide-alkaline-earth oxides catalysts.

*Rev. Roum. Chim.*, **2010**, 55(1), 33-38

**Carmen MANEA, Corneliu PODINĂ,  
Ioan PORDEA, Gheorghe CRUȚU,  
Gabriela ILIE and Ioan ROBU**

The radiological risk assessment due to the  
radioactivity of thermal power station ashes added  
in building materials

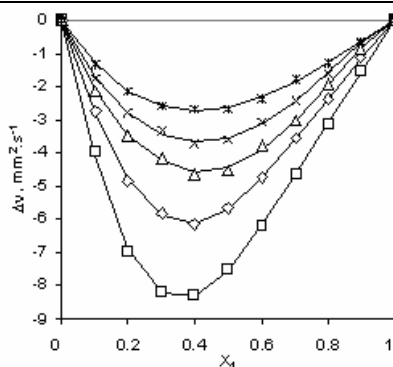
$$IR = \frac{C_{226Ra}}{300} + \frac{C_{232Th}}{200} + \frac{C_{40K}}{3000}$$

**Key words:** radioactivity, radioactive index, radiation risk, NORM,  
TENORM.

*Rev. Roum. Chim.*, **2010**, 55(1), 39-44

**Olga IULIAN and Oana CIOCÎRLAN**

Viscosity and density of systems with water,  
1,4-dioxane and ethylene glycol between (293.15  
and 313.15)K. I. Binary systems

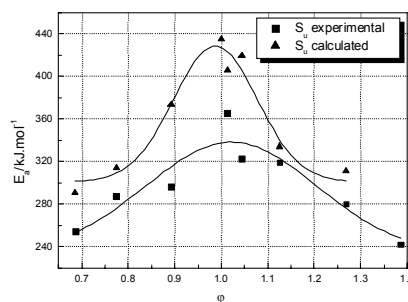


**Key words:** viscosity, density, binary liquid mixtures, 1,4 dioxane,  
ethylene glycol.

*Rev. Roum. Chim.*, **2010**, 55(1), 45-53

Venera BRINZEA, Maria MITU,  
Domnina RAZUS and Dumitru OANCEA

Overall activation parameters of propane  
oxidation in flames from normal burning  
velocities

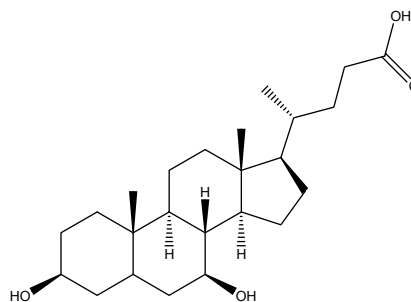


**Key words:** propane-air mixtures, deflagration, burning velocities, overall  
reaction orders, overall activation energies

*Rev. Roum. Chim.*, 2010, 55(1), 55-61

Daniela C. CULIȚĂ, Gabriela MARINESCU,  
Luminița PATRON, Floriana ȚUNĂ,  
Nicolae STANICĂ and Ma YUN

Coordination compounds of Co(II), Ni(II), Cu(II)  
and Zn(II) with ursodeoxycholic acid

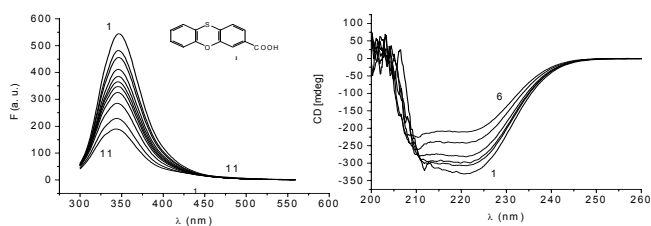


**Key words:** ursodeoxycholic acid, coordination compounds,  
physico-chemical characterization.

*Rev. Roum. Chim.*, 2010, 55(1), 63-67

Aurica VARLAN and Mihaela HILLEBRAND

Study on the interaction of  
2-carboxyphenoxathiin with bovine serum  
albumin and human serum albumin by  
fluorescence spectroscopy and circular dichroism



**Key words:** steady state fluorescence, synchronous fluorescence, circular  
dichroism, 2-carboxyphenoxathiin, bovine serum albumin  
human serum albumin.

*Rev. Roum. Chim.*, 2010, 55(1), 69-77

In memoriam Prof. Ioan Silaghi-Dumitrescu (1950–2009)

*Rev. Roum. Chim.*, 2010, 55(1), 79-80

