

# REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

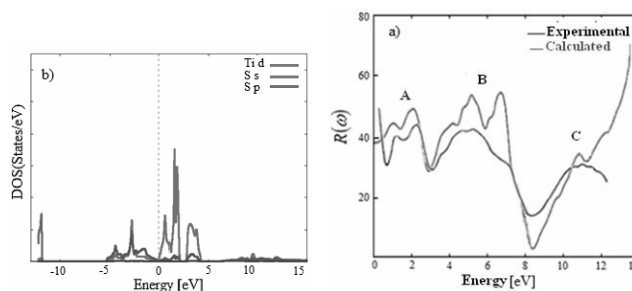
Tome 63, N° 10

Octobre 2018

## PAPERS

Hamza EL-KOUCH and Larbi EL FARH

Electronic and optical properties of TiS<sub>2</sub> determined from modified Becke–Johnson GGA Potential (mBJ-GGA) study

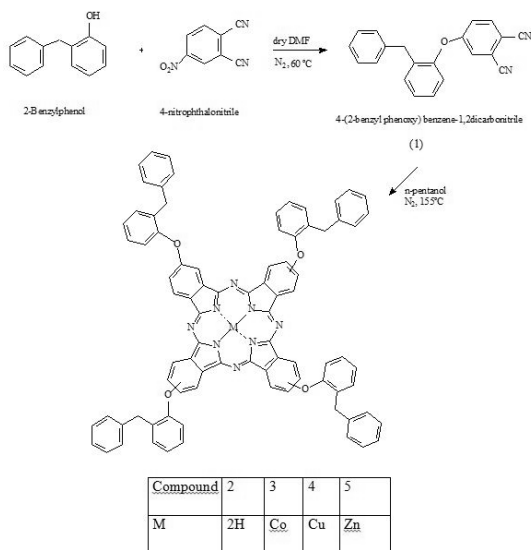


**Key words:** optical and electronic properties, TiS<sub>2</sub>, DFT, band structure, density of state.

Rev. Roum. Chim., 2018, 63(10), 873-880

Meltem Betül SAGLAM,  
Kadriye INAN BEKTAS, Ahmet UYSAL,  
Halil Ibrahim GULER, Aykut SAGLAM and  
Zekeriya BIYIKLIOGLU

Synthesis, characterization, electrochemical properties of metal-free and metallophthalocyanines bearing 2-benzylphenoxy substituents and investigation of their biological activities

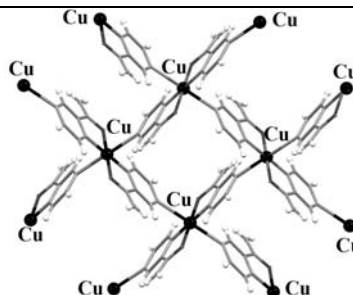


**Key words:** phthalocyanine, electrochemistry, cyclic voltammetry, anti-microbial activity, mutagenicity.

Rev. Roum. Chim., 2018, 63(10), 881-895

Amin EBADI

Synthesis, characterization and crystal structure determination of a pyrazine-2-carboxamide-bridged two-dimensional polymeric copper(II) complex

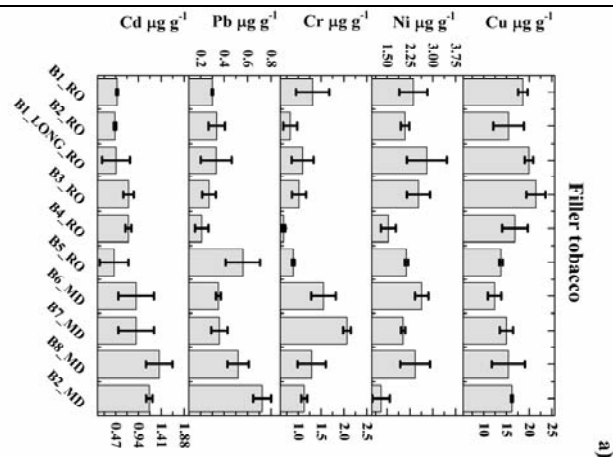


**Key words:** Cu(II) complex, pyrazine-2-carboxamide ligand, crystal structure, thermal gravimetric analysis.

Rev. Roum. Chim., 2018, 63(10), 897-902

Stefan-Adrian STRUNGARU,  
Mircea NICOARA, Antoneta Dacia PETROAIE  
and Gabriel PLAVAN

Heavy metals in common tobacco brands from  
legal market and black market of Iași - Roumania

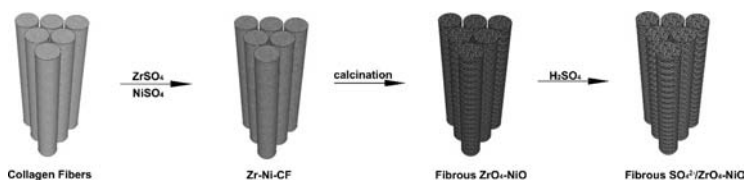


*Rev. Roum. Chim.*, 2018, 63(10), 903-909

**Key words:** toxic metals, tobacco, health risk, HR-CS GF-AAS.

Yang LIAO, Yunfei QIU, Yujia WANG,  
Ting ZHANG, Xin FENG, Hongyan SHANG,  
Shilin ZHAO, Jun MA and Hui MAO

Cowhide collagen fibers as biotemplates for  
preparation of fibrous  $\text{SO}_4^{2-}/\text{ZrO}_2\text{-NiO}$  solid acid  
catalyst and their application in esterification

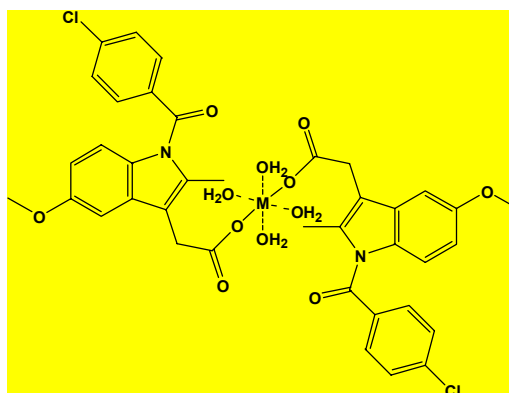


*Rev. Roum. Chim.*, 2018, 63(10), 911-918

**Key words:** biotemplating, cowhide collagen fibers, solid acid catalyst,  
esterification.

Fatima A. I. AL-KHODIR

Four new complexes of Mg(II), Ca(II), Sr(II), and  
Ba(II) indomethacin anti-inflammatory drug:  
synthesis, physicochemical and biological studies

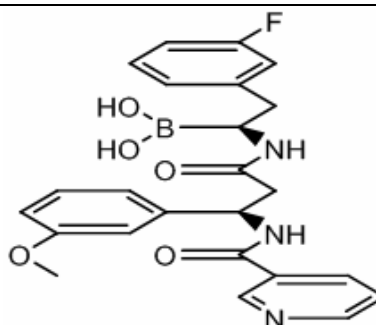


*Rev. Roum. Chim.*, 2018, 63(10), 919-929

**Key words:** indomethacin, antimicrobial, IR,  $^1\text{H-NMR}$ , divalent metal ions,  
TEM, nanoscale.

Robabeh SAYYADIKORD ABADI and  
Asghar ALIZADEHDAKHEL

QSAR techniques on several Bortezomib  
compounds as proteasome inhibitor anticancer drug



*Rev. Roum. Chim.*, 2018, 63(10), 931-939

**Key words:** Bortezomib compounds, antitumor drugs, QSAR,  
genetic algorithm.

**Fatma Bayrakceken NISANCI and  
Bilal YILMAZ**

Electrochemically grown bismuth(III) oxide nanoparticles on gold as sensor for quantification of methimazole

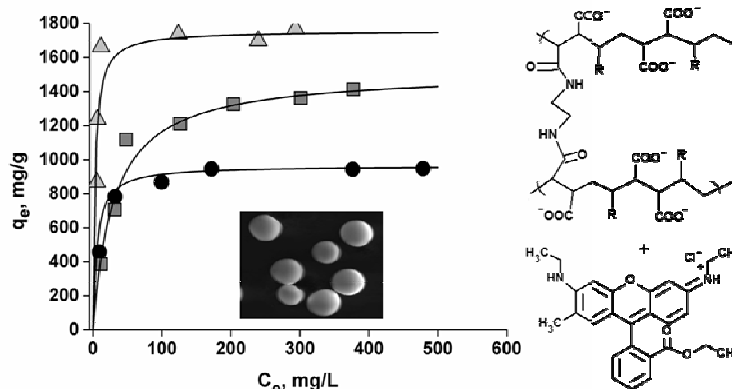


**Key words:** bismuth (III) oxide, methimazole, square wave voltammetry, differential pulse voltammetry.

*Rev. Roum. Chim.*, 2018, 63(10), 941-952

**Irina POPESCU, Dana Mihaela SUFLET,  
Irina Mihaela PELIN and  
Ana-Maria TRUNFIO-SFARGHIU**

Crosslinked maleic anhydride copolymers microspheres for dye adsorption

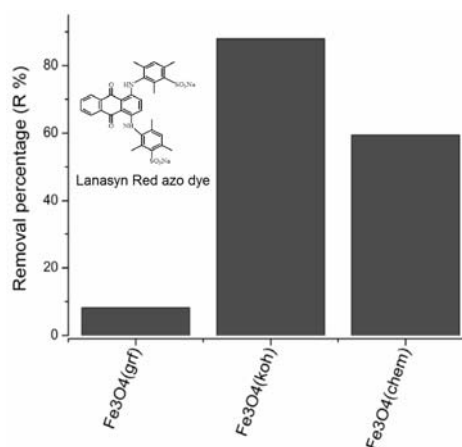


**Key words:** maleic anhydride copolymers, microspheres, dye removal, isotherms, kinetics.

*Rev. Roum. Chim.*, 2018, 63(10), 953-963

**Idikó LUNG, Maria-Loredana SORAN,  
Manuela STAN, Ocsana OPRİŞ,  
Florina COPACIU, Maria ŞTEFAN,  
Mihaela Diana LAZĂR, Cristian LEOŞTEAN  
and Alin Sebastian PORAV**

Green synthesized  $\text{Fe}_3\text{O}_4$  nanoparticles for Lanasyne Red azo dye removal from aqueous solutions



**Key words:** green synthesis, magnetite nanoparticles, Lanasyne Red, adsorption, decontamination.

*Rev. Roum. Chim.*, 2018, 63(10), 965-970

**Wolfgang BUCHBERGER, Sibel A. OZKAN and Slavica RAZIC**

European Analytical Column Number 46 (EAC 46)

*Rev. Roum. Chim.*, 2018, 63(10), 971-972

