

# REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

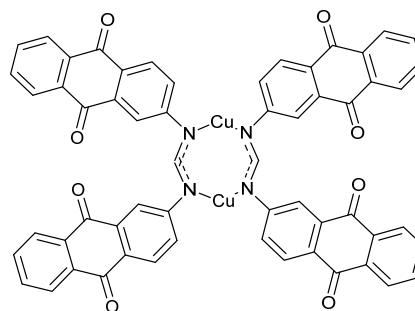
Tome 64, N° 5

Mai 2019

## PAPERS

Mohammad Bahar TAJ, Ahmad RAHEEL,  
Syed Ahmad TIRMIZI, Muhammad SHARIF,  
Roja Hammad AHMAD and  
Happipah Bint Mohd ALI

Pt, Pd and Cu metal-amidine coordination



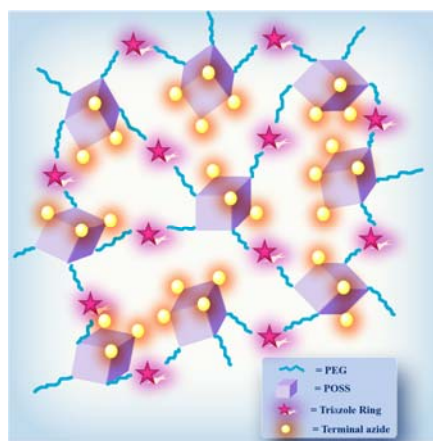
Doi: 10.33224/rrch.2019.64.5.01

Rev. Roum. Chim., 2019, 64(5), 387-392

**Key words:** amidines, binding mode, metal (Pt, Pd and Cu) complexes.

Ghodsii MOHAMMADI ZIARANI,  
Shima ASADI, Alireza BADIEI and  
Mohammad Reza NABID

Synthesis and characterization of organic/inorganic  
hybrid materials based on polyhedral oligomeric  
silsesquioxane (POSS) and poly(ethylene glycol)  
via click chemistry



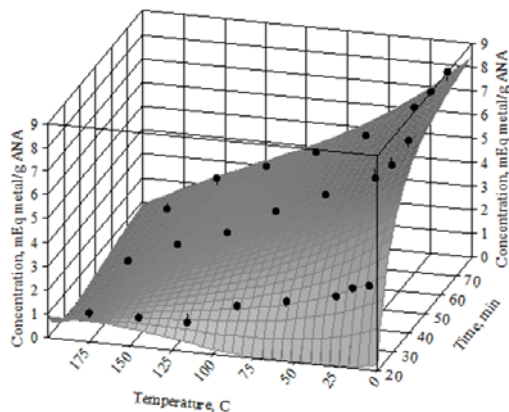
Doi: 10.33224/rrch.2019.64.5.02

Rev. Roum. Chim., 2019, 64(5), 393-401

**Key words:** nano POSS, PEG, click chemistry, organic-inorganic hybrid.

Claudia COBZARU, Adriana MARINOIU,  
Gabriela Antoaneta APOSTOLESU,  
Ramona Elena TATARU-FARMUS and  
Corina CERNATESCU

Mathematical modeling for kinetics of Fe<sup>3+</sup>  
exchange on pretreated analcime



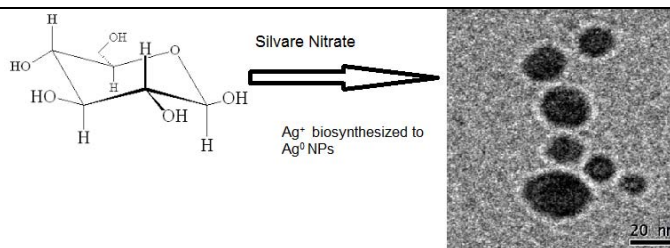
Doi: 10.33224/rrch.2019.64.5.03

Rev. Roum. Chim., 2019, 64(5), 403-407

**Key words:** ion exchange, analcime, numerical study, Table Curve software.

Sajjad SEDAGHAT, Elham ARSHADI,  
Alireza NAFAR and Reza DABBAGH

Rapid green biosynthesis and  
characterization of silver nanoparticles  
using glucose as a green route



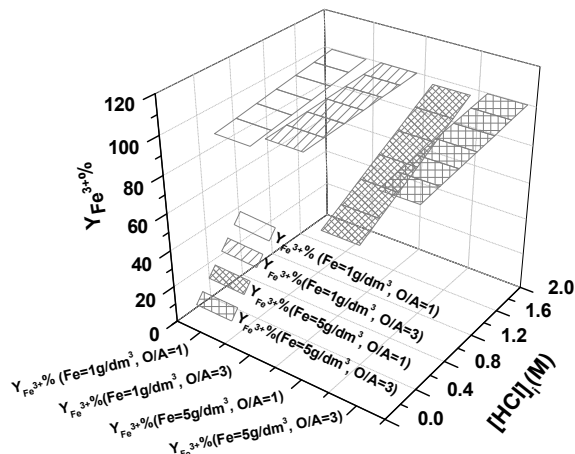
11-15 nm Ag-NPs

Doi: 10.33224/rch.2019.64.5.04  
*Rev. Roum. Chim.*, 2019, 64(5), 409-413

**Key words:** silver nanoparticle, bio-synthesis, glucose, green method,  
transmission electron microscopy, X-ray diffraction.

Jamal STAS and Roulana BOUZO

Optimization of Fe(III) extraction from HCl  
solutions by TDA/kerosene using factorial  
design experiments

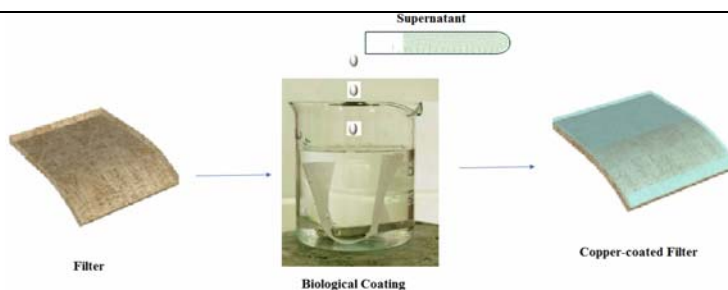


Doi: 10.33224/rch.2019.64.5.05  
*Rev. Roum. Chim.*, 2019, 64(5), 415-426

**Key words:** extraction, iron(III), hydrochloric acid, tri-n-dodecylamine,  
factorial design.

Nima BANIJAMALI  
and Hamid Reza GHORBANI

Copper nanoparticles coating on filter using  
biological method and the study of its antibacterial  
activity

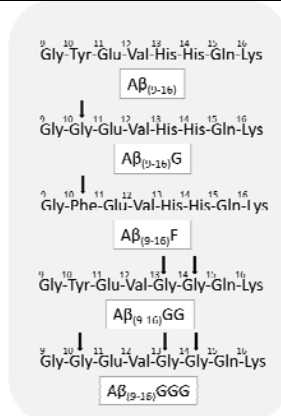


Doi: 10.33224/rch.2019.64.5.06  
*Rev. Roum. Chim.*, 2019, 64(5), 427-432

**Key words:** filter, copper nanoparticles, antibacterial, coating.

Monica JURESCHI, Ionel HUMELNICU,  
Brândușa Alina PETRE,  
Catalina-Ionica CIOBANU,  
Manuela MURARIU and Gabi DROCHIOIU

Solid phase synthesis of four analogs  
of amyloid- $\beta_{(9-16)}$  peptide: MS and FT-IR  
characterization

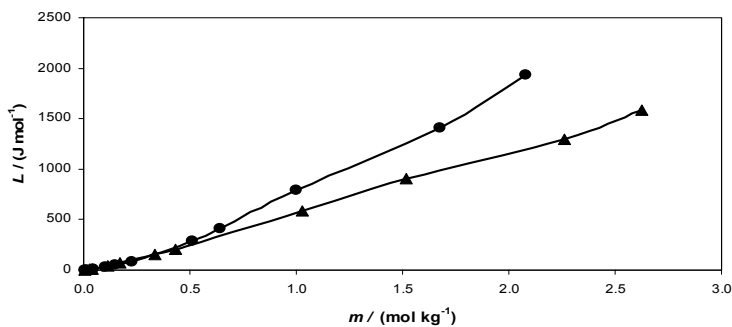


Doi: 10.33224/rch.2019.64.5.07  
*Rev. Roum. Chim.*, 2019, 64(5), 433-443

**Key words:** peptide, heavy metal ions, FT-IR, NMR, fluorescence  
spectroscopic techniques.

**Mariana TEODORESCU and Vlad T. POPA**

Solution molar enthalpies for 1-butyl-3-methylimidazolium chloride + 1-propanol system at 303.56 and 318.68 K

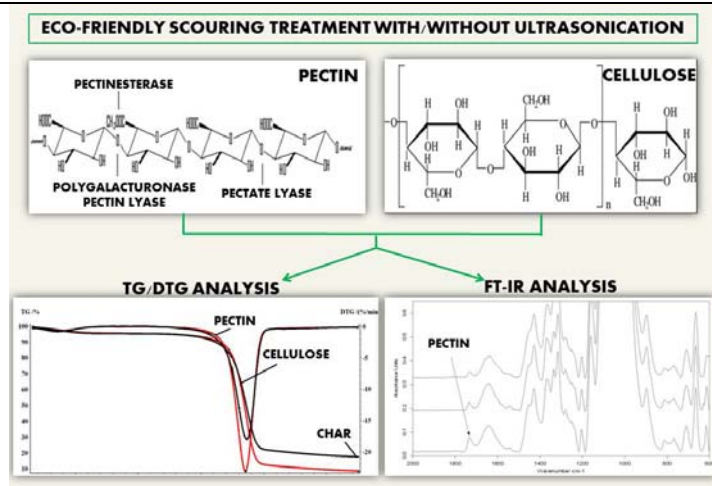


Doi: 10.33224/rch.2019.64.5.08  
*Rev. Roum. Chim.*, 2019, 64(5), 445-452

**Key words:** 1-butyl-3-methylimidazolium chloride, 1-propanol, solution enthalpy, apparent and relative molar enthalpies, infinite dilution.

**Dorina CHAMBRE, Mihaela DOCHIA and Simona GAVRILAȘ**

TG/DTG analysis of an eco-friendly scoured fabric

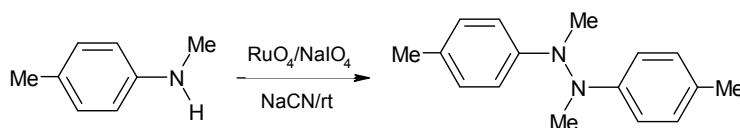


Doi: 10.33224/rch.2019.64.5.09  
*Rev. Roum. Chim.*, 2019, 64(5), 453-460

**Key words:** cotton-flax fabric, eco-friendly scouring, ultrasonication, TG/DTG analysis, FT-IR analysis.

**NOTE**
**Cristina A. FLOREA and Horia PETRIDE**

Homolytic pathway for the RuO<sub>4</sub>-oxidation of amines



Doi: 10.33224/rch.2019.64.5.10  
*Rev. Roum. Chim.*, 2019, 64(5), 461-463

**Key words:** ruthenium tetraoxide, secondary amines, homolytic mechanism.

