

# REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

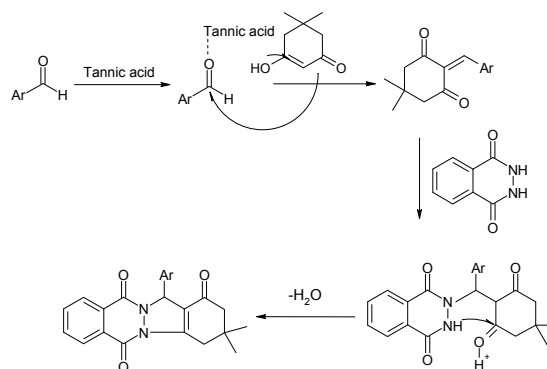
Tome 64, N° 8

Aôut 2019

## PAPERS

**Davood SHEIKH, Ali VARASTEH MORADI  
and Zahra HEKMATIAN**

Environment-friendly green approaches for an efficient synthesis of 2H-indazolo[2,1-b]phthalazine-1,6,11(13H)-triones catalyzed by tannic acid

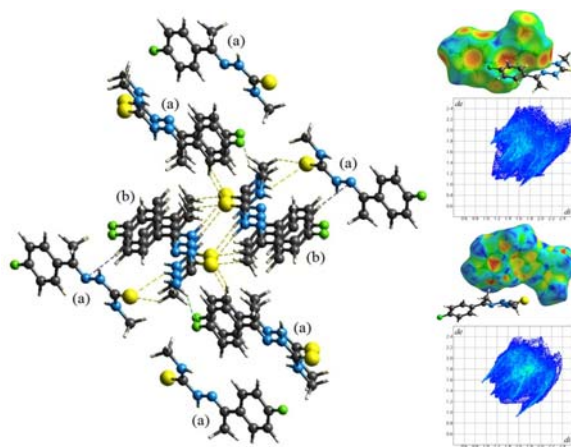


DOI: 10.33224/rrech.2019.64.8.01  
Rev. Roum. Chim., 2019, 64(8), 645-650

**Key words:** ecofriendly catalyst, tannic acid, synthesis, phthalazine-triones.

**Bhuvanendra SINGH, Rajeev SINGH,  
Rayees Ahmad BHAT, Vasundhara SINGH and  
Dilip KUMAR**

Crystal structure and computational study of a fluorine-containing thiosemicarbazone

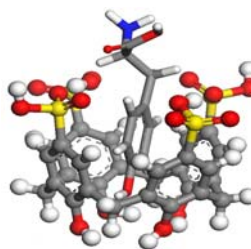


DOI: 10.33224/rrech.2019.64.8.02  
Rev. Roum. Chim., 2019, 64(8), 651-662

**Key words:** crystal structure, computational study, electron localization function, Hirshfeld surface, natural population analysis.

**Xu-Yan ZHANG and Tao-Tao PANG**

Supramolecular *p*-sulfonated Calix[4]arene for tyrosine detection

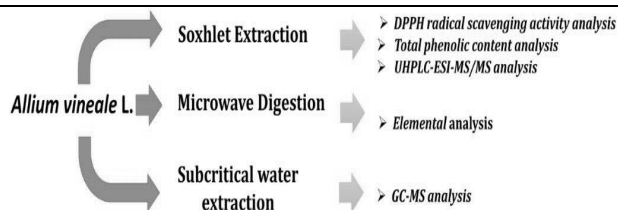


DOI: 10.33224/rrech.2019.64.8.03  
Rev. Roum. Chim., 2019, 64(8), 663-672

**Key words:** Fourier transform infrared spectroscopy, molecular modeling calculation, cyclic voltammetry, electrochemical impedance spectroscopy, scanning electron microscopy.

**İbrahim TEGIN, Erdal YABALAK,  
Betül SADIK and Mehmet FIDAN**

Evaluation of chemical content and radical scavenging activity of *Allium vineale* L. extract and its elemental analysis

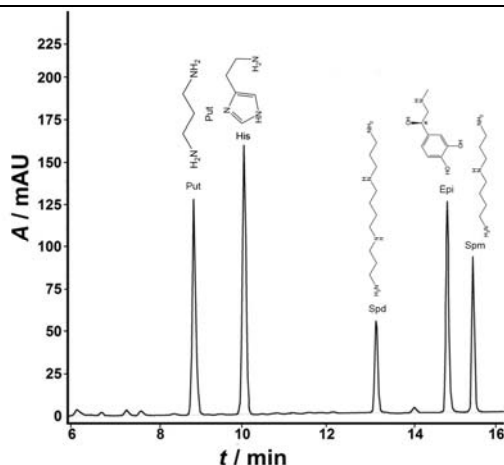


DOI: 10.33224/rch.2019.64.8.04  
Rev. Roum. Chim., 2019, 64(8), 673-679

**Key words:** *Allium vineale*, subcritical water extraction, DPPH, chemical composition.

**Jelena TRIFUNOVIĆ-MACEDOLJAN,  
Nebojša Đ. PANTELIĆ, Milka JADRANIN and  
Ivan JURANIĆ**

Biogenic amines content in the serum of patients with *non-Hodgkin's* lymphoma

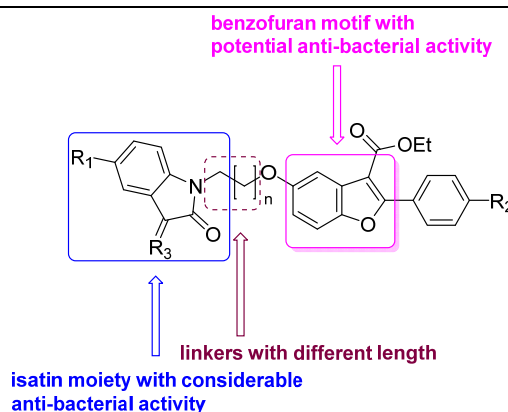


DOI: 10.33224/rch.2019.64.8.05  
Rev. Roum. Chim., 2019, 64(8), 681-686

**Key words:** Biogenic amines, LC/DAD, serum, *non-Hodgkin's* lymphoma.

**Yin-Ling WANG, Shi-Jia ZHAO,  
Yi LIU and Zhi XU**

Design, synthesis and *in vitro* anti-bacterial activities of benzofuran-isatin hybrids

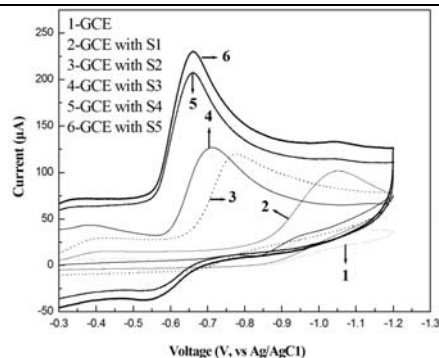


DOI: 10.33224/rch.2019.64.8.06  
Rev. Roum. Chim., 2019, 64(8), 687-710

**Key words:** benzofuran-isatin hybrids, anti-bacterial, drug-resistant, structure-activity relationship.

**Lu PAN**

Preparation and enhanced electrocatalytic performances of  $\text{Co}_3\text{O}_4$  composites nanosheets loaded with double precious metals

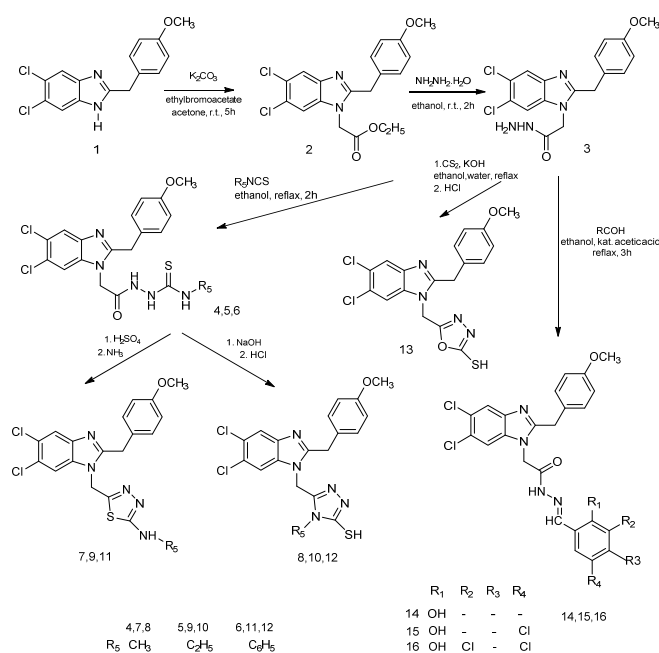


DOI: 10.33224/rch.2019.64.8.07  
Rev. Roum. Chim., 2019, 64(8), 711-717

**Key words:**  $\text{Ag}_x\text{Au}_y/\text{Co}_3\text{O}_4$  composites, double precious metals, electrocatalysis, *p*-nitrophenol.

Nesrin KARAALI, Ridvan ATIK,  
Nimet BALTAS, Selami SASMAZ and  
Bahittin KAHVECİ

Synthesis, inhibitory properties on the metabolic  
enzymes and antioxidant activity of a new series  
benzimidazole derivatives

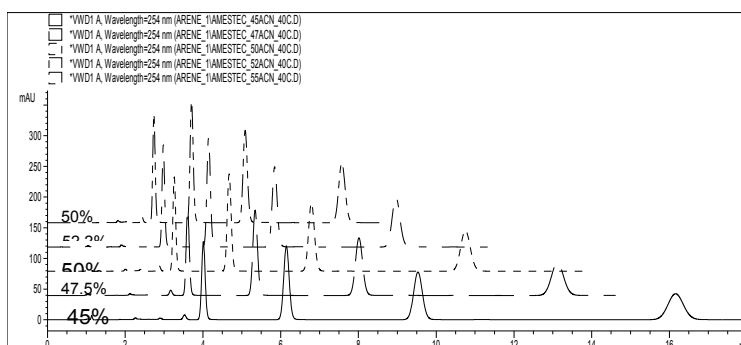


DOI: 10.33224/rch.2019.64.8.08  
Rev. Roum. Chim., 2019, 64(8), 719-726

**Key words:** benzimidazole, Schiff base, antioxidant, anti-urease,  
anti-xanthineoxidase.

Andreia-Cristina SOARE, Toma GALAON,  
Serban C. MOLDOVEANU and Victor DAVID

The influence of column temperature on the  
extrapolated values of the retention factor in  
reversed-phase liquid chromatography for water as  
mobile phase

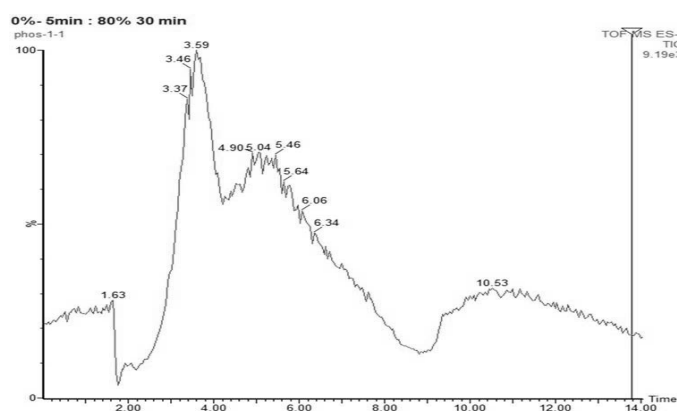


DOI: 10.33224/rch.2019.64.8.09  
Rev. Roum. Chim., 2019, 64(8), 727-731

**Key words:** extrapolated retention factor, column temperature,  
reversed-phase liquid chromatography, thermodynamic.

Moufida A. OUESLATI, Justin RENAUD,  
Ghayth RIGANE, Aynur GUNENC,  
Ridha Ben SALEM, Sadok BOUKHCHINA,  
Farah HUSSAINIAN and Paul M. MAYER

LC-MS and ESI-MS QTOF-MS analysis  
of glycerophospholipid and triacylglycerol species  
in developing wild artichoke achenes



DOI: 10.33224/rch.2019.64.8.10  
Rev. Roum. Chim., 2019, 64(8), 733-742

**Key words:** phospholipids, triacylglycerols, *Onopordum acanthium* oil,  
seed/achenes development, electrospray ionization.

