

# REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

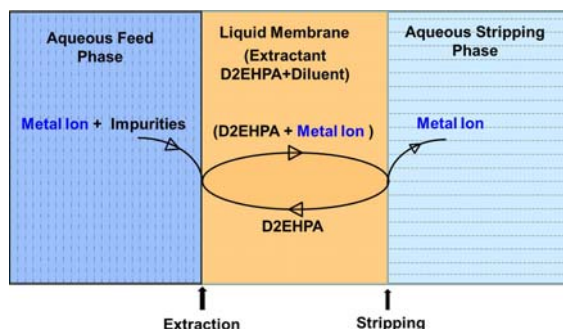
Tome 64, N° 2

Fevrier 2019

## REVIEW

Zaher ALBARAKA

Use of D2EHPA-mediated liquid membranes for heavy metal ions separation: A review



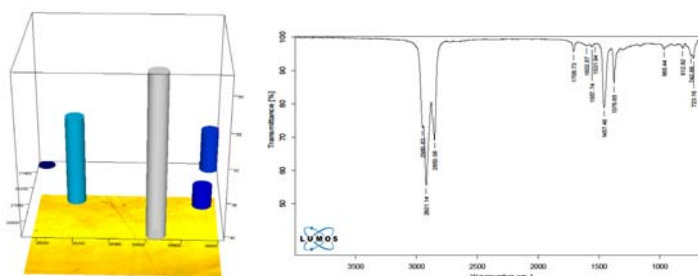
Doi: 10.33224/rrch.2019.64.2.01  
Rev. Roum. Chim., 2019, 64(2), 113-124

**Key words:** heavy metal ions, liquid membranes, di-2-ethylhexyl phosphoric acid.

## PAPERS

Yegana AGHAZADA, Vaqif ABBASOV,  
Senan ABDULLAYEV, Elgun HASANOV and  
Ulviya YOLCHUYEVA

Characterisation of conservative liquids based on liquid rubber, the salts of the natural petroleum acids and nitro compounds – C<sub>14</sub>H<sub>28</sub>

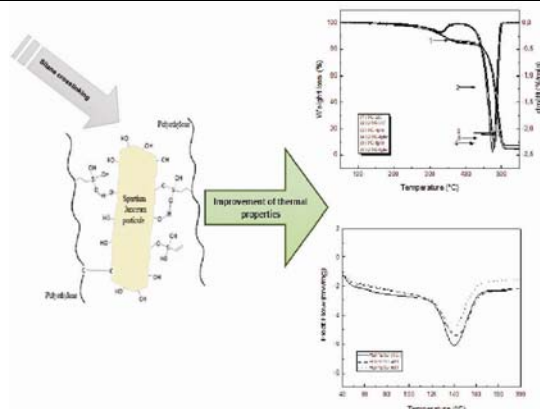


Doi: 10.33224/rrch.2019.64.2.02  
Rev. Roum. Chim., 2019, 64(2), 125-132

**Key words:** conservative liquids, corrosion, liquid rubber, natural petroleum acids.

Samah IKHLEF, Sorya NEKKA and  
Nacerddine HADDAOUI

Effects of silane crosslinking on thermal and morphological properties of *Spartium junceum* flour/high density polyethylene composites



Doi: 10.33224/rrch.2019.64.2.03  
Rev. Roum. Chim., 2019, 64(2), 133-141

**Key words:** biocomposites, crosslinking, high density polyethylene, natural filler, vinyltrimethoxy silane.

**Mohammad Hasan ROUSTA and Nahid GHASEMI**

Green synthesis of silver nanoparticles using a mountain plant extract

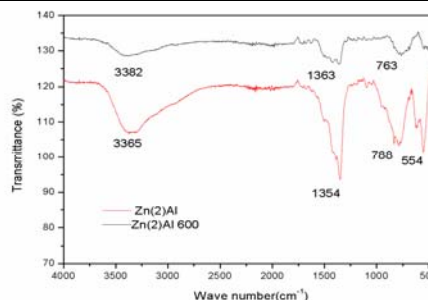


Doi: 10.33224/rrch.2019.64.2.04  
*Rev. Roum. Chim.*, 2019, 64(2), 143-152

**Key words:** Artemisia Sieberi Besser, SEM, XRD, TEM, silver nanoparticles.

**Farid AOUDJIT, Ouiza CHERIFI and Djamilla HALLICHE**

Equilibrium and kinetic studies of anionic surfactant removal by adsorption and photocatalytic degradation using hydrotalcite-like compounds and their calcined products

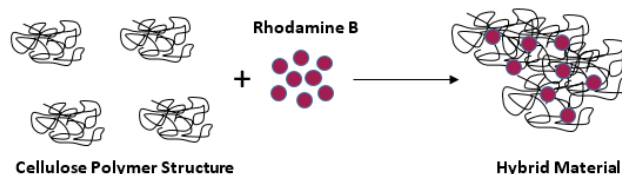


Doi: 10.33224/rrch.2019.64.2.05  
*Rev. Roum. Chim.*, 2019, 64(2), 153-162

**Key words:** hydrotalcite, photocatalyst, removal, surfactant, treatment.

**Mehmet KAYA**

Investigation of a hybrid material and photophysical properties of rhodamine B in aqueous suspensions of cellulosic particles



Doi: 10.3224/rrch.2019.64.2.06  
*Rev. Roum. Chim.*, 2019, 64(2), 163-171

**Key words:** Rhodamine B, rice husk, aggregation, hybrid material, cellulose.

**Nikita YUSHIN, Inga ZINICOVSCAIA, Liliana CEPOL, Tatiana CHIRIAC and Tatiana MITINA**

Study of chemistry of Cr(IV)/Cr(III) biosorption from batch solutions and electroplating industrial effluent using cyanobacteria *Spirulina platensis*

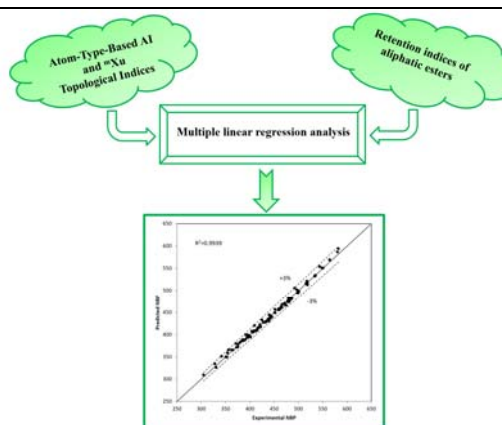


Doi: 10.3224/rrch.2019.64.2.07  
*Rev. Roum. Chim.*, 2019, 64(2), 173-181

**Key words:** biosorption, chromium (III), chromium(VI), Spirulina platensis.

**Bahare OSAGHI and Fariba SAFA**

QSPR study on the boiling points of aliphatic esters using the atom-type-based AI topological indices

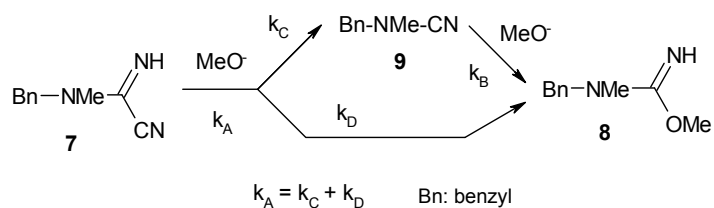


Doi: 10.33224/rrch.2019.64.2.08  
*Rev. Roum. Chim.*, 2019, 64(2), 183-189

**Key words:** quantitative structure–property relationship, modelling, atom-type-based AI topological indices, normal boiling point.

Cristina FLOREA, Anca HÎRTOPEANU,  
Cristina STAVARACHE and Horia PETRIDE

Unusual mechanism of the methanolysis  
of 1-cyanoformamidines

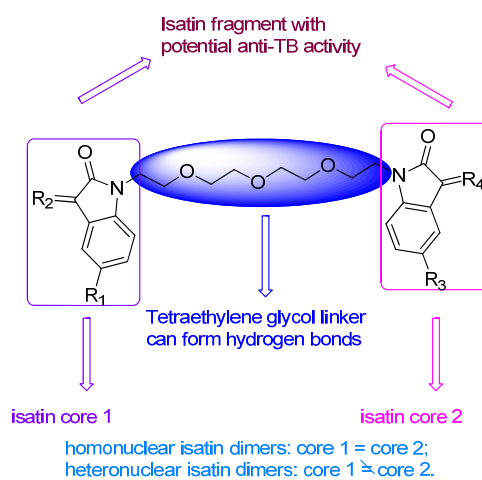


Doi: 10.33224/rch.2019.64.2.09  
Rev. Roum. Chim., 2019, 64(2), 191-197

**Key words:** 1-cyanoformamidines, methanolysis, cyanamides,  
carbamimidates, kinetics.

Yin-Ling WANG, Shi-Jia ZHAO, Jia-Lun Deng,  
Zao-Sheng LV and Zhi XU

Tetraethylene glycol tethered homonuclear  
and heteronuclear isatin dimers and their *in vitro*  
anti-mycobacterial activities



Doi: 10.33224/rch.2019.64.2.10  
Rev. Roum. Chim., 2019, 64(2), 199-204

**Key words:** isatin, dimer, tetraethylene glycol, homonuclear, heteronuclear,  
anti-mycobacterial.

