

# REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

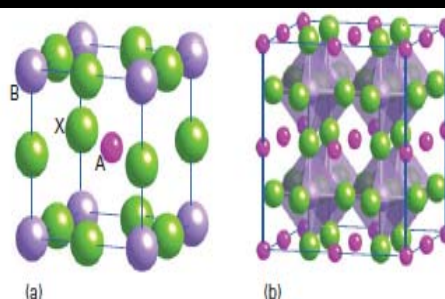
Tome 64, N° 12

Décembre 2019

## PAPERS

**Farhang HAMEDI and Haman TAVAKKOLI**

Preparation, characterization and magnetic properties of  $Gd_{0.8}Sr_{0.2}FeO_3$  via sol-gel processing

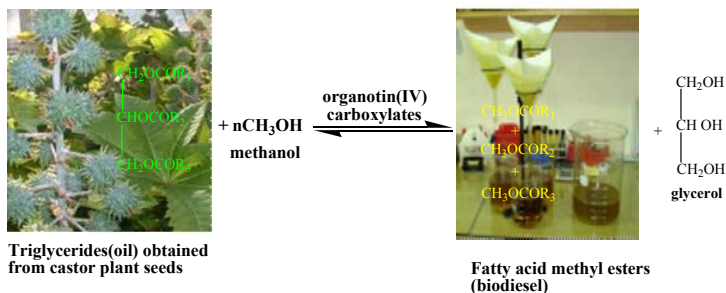


DOI: 10.33224/rch.2019.64.12.01  
Rev. Roum. Chim., 2019, 64(12), 1019-1026

**Key words:** perovskite, sol-gel processing, nanoparticles, TEM analysis, vibrating sample magnetometer (VSM).

**Muhammad TARIQ, Ahmad Kaleem QURESHI, Muhammad IMRAN, Muhammad Babar TAJ, Muhammad SIRAJUDDIN, Saqib ALI and Naseem ABBAS**

Biodiesel - a transesterified product of non-edible castor oil

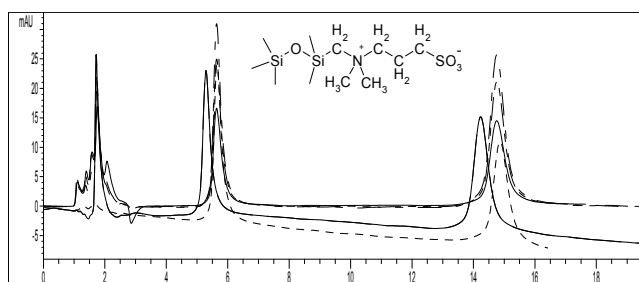


DOI: 10.33224/rch.2019.64.12.02  
Rev. Roum. Chim., 2019, 64(12), 1027-1036

**Key words:** castor oil, transesterification, tin complexes, bio-diesel.

**Maria TANASE and Victor DAVID**

Influence of the injected sample composition on the retention parameters of polar compounds under Zic-Hilic mechanism in liquid chromatography

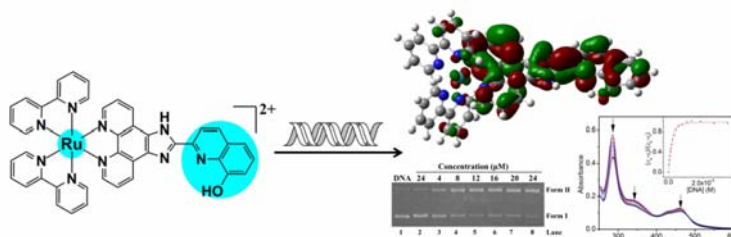


DOI: 10.33224/rch.2019.64.12.03  
Rev. Roum. Chim., 2019, 64(12), 1037-1041

**Key words:** Zic-Hilic mechanism, injection volume, sample composition, retention mechanism, liquid chromatography.

**Yaxuan MI, Shuang WANG, Minghe WANG, Zebao ZHENG, Xiaolong ZHAO**

DNA interaction, photocleavage and theoretical calculations of a ruthenium(II) complex with hydroxyquinoline derivative

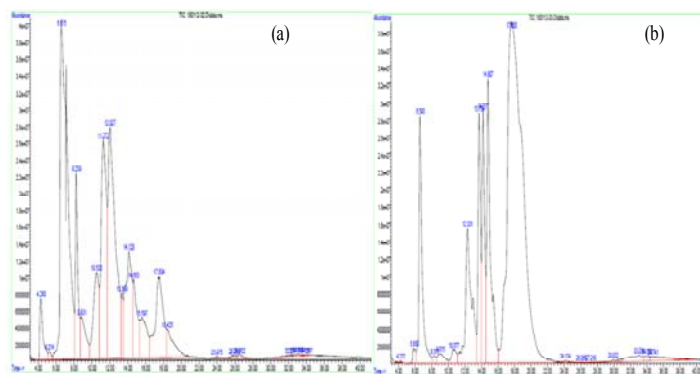


DOI: 10.33224/rch.2019.64.12.04  
Rev. Roum. Chim., 2019, 64(12), 1043-1053

**Key words:** ruthenium, DNA binding, fluorescence, viscosity, photocleavage.

**Hanene GHAZGHAZI, Badiia ESSGHAIER, Hajer RIGUENE, Ghayth RIGANE, Meriem EL ALOUI, Mofida A. OUESLATI, Ridha BEN SALEM, Najla SADFI ZOUAOUI, Zouher NASER and Mouhamed LAARBI KHOUJA**

Phytochemical analysis, antioxidant and antimicrobial activities of *Eucalyptus* essential oil: a comparative study between *Eucalyptus marginata* L. and *Eucalyptus pauciflora* L.

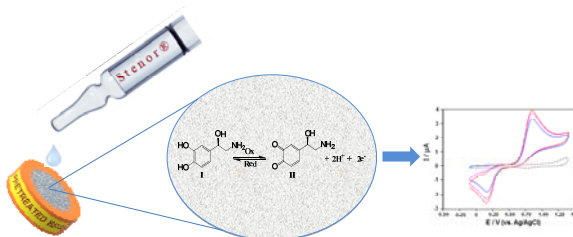


DOI: 10.33224/rch.2019.64.12.05  
Rev. Roum. Chim., 2019, 64(12), 1055-1062

**Key words:** antifungal, antibacterial, antioxidant, *Eucalyptus marginata*, *Eucalyptus pauciflora*, essential oil.

**Ertugrul KESKIN, Yavuz YARDIM, Abdulkadir LEVENT and Zühre ŞENTÜRK**

Electrochemical determination of norepinephrine by adsorptive stripping voltammetry using a bare boron-doped diamond electrode

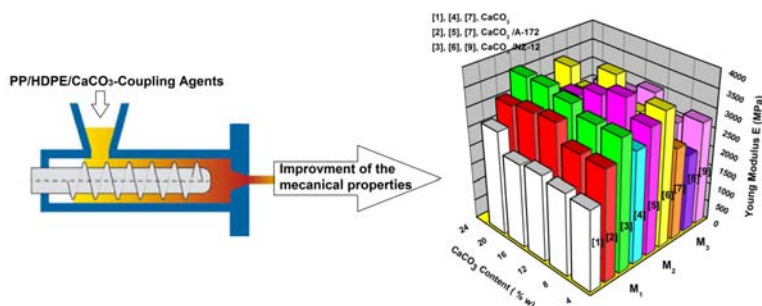


DOI: 10.33224/rch.2019.64.12.06  
Rev. Roum. Chim., 2019, 64(12), 1063-1072

**Key words:** norepinephrine, square-wave adsorptive stripping voltammetry, boron-doped diamond (BDD) electrode, pharmaceutical drug.

**Samia BOUFASSA, Abdelhak HELLATI and Rachida DOUFNOUNE**

Correlations between the mechanical and thermal properties of polypropylene/high density polyethylene/ $\text{CaCO}_3$  composites with the presence of coupling agents

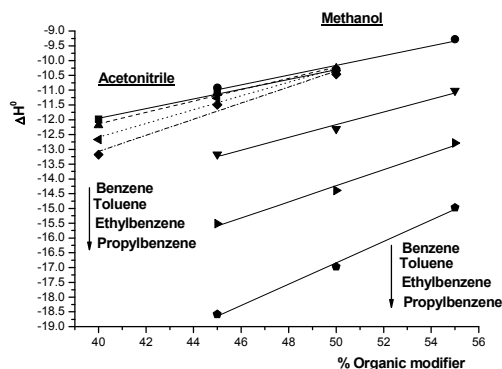


DOI: 10.33224/rch.2019.64.12.07  
Rev. Roum. Chim., 2019, 64(12), 1073-1082

**Key words:** polypropylene, high density polyethylene, calcium carbonate, organosilane, organozirconate, microhardness.

**Andreia-Cristina SOARE, Viorica MELTZER, Mihaela CHEREGI and Victor DAVID**

Thermodynamic study of the retention of aromatic hydrocarbons on phenylsilicagel based stationary phase under reversed-phase liquid chromatographic mechanism

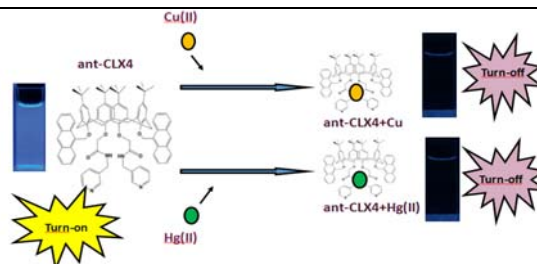


DOI: 10.33224/rch.2019.64.12.08  
Rev. Roum. Chim., 2019, 64(12), 1083-1089

**Key words:** aromatic hydrocarbons, phenylsilicagel, van't Hoff equation, standard enthalpy variation.

**Bahar YILMAZ and Mevlut BAYRAKCI**

Highly sensible chemosensor for  $\text{Cu}^{2+}$  and  $\text{Hg}^{2+}$  based on anthracene anchored Calix[4]arene pyridine amide receptor

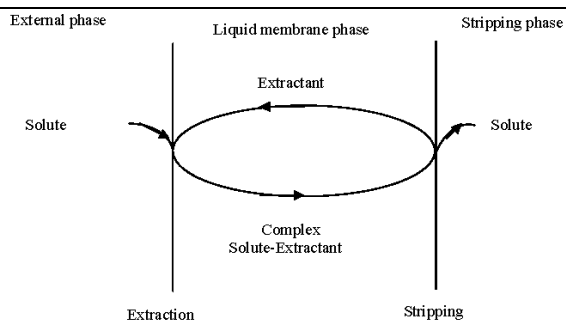


DOI: 10.33224/rch.2019.64.12.09  
*Rev. Roum. Chim.*, **2019**, 64(12), 1091-1096

**Key words:** fluorescence quenching, Calix[4]arene, anthracene, copper, mercury.

**Aziza HACHEMAOUI**

Extraction of cerium(III) from aqueous solution using emulsion liquid membrane – design of experiments methodology



DOI: 10.33224/rch.2019.64.12.10  
*Rev. Roum. Chim.*, **2019**, 64(12), 1097-1104

**Key words:** cerium, extraction, emulsion liquid membrane, D2EHPA, factorial design.

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