

# REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

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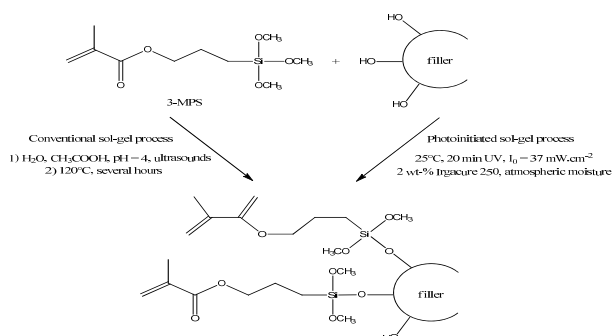
Octobre 2020

Prof. Dr. Ing. Gheorghe MARIA at his 65<sup>th</sup> anniversary – Excellency in Chemical and Biochemical Engineering

## PAPERS

Samir BAYOU, Mohammed MOUZALI,  
Laurence LECAMP and Philippe LEBAUDY

Photoinitiated functionalization of minerals fillers  
for dental composites

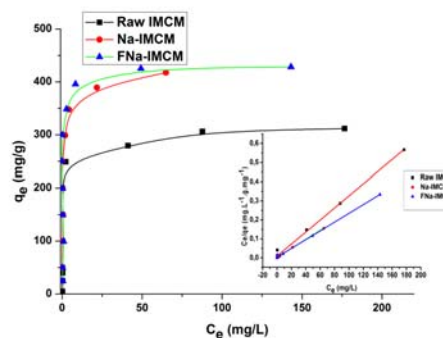


DOI: 10.33224/rch.2020.65.10.01  
Rev. Roum. Chim., 2020, 65(10), 859-867

**Key words:** dental composite, mineral fillers, sol-gel process, functionalization.

Smail TERCHI, Naziha LADJAL,  
Belkacem ZIDELKHEIR and  
Khalidoun BACHARI

Adsorption performance of anionic textile dye  
(Nylosan Red N-2RBL) onto raw, sodic and  
fractionated sodic inorganic clay material

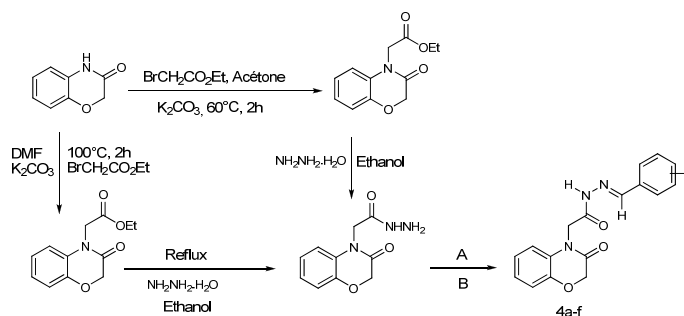


DOI: 10.33224/rch.2020.65.10.02  
Rev. Roum. Chim., 2020, 65(10), 869-884

**Key words:** inorganic materials, clays, adsorption, anionic dyes, montmorillonite.

Naouel CHETTIBI, Houria BENTOUMI and  
Messaoud LIACHA

Ultrasound-assisted synthesis and antimicrobial  
evaluation of some novel  
benzoxanonyhydrazone derivatives

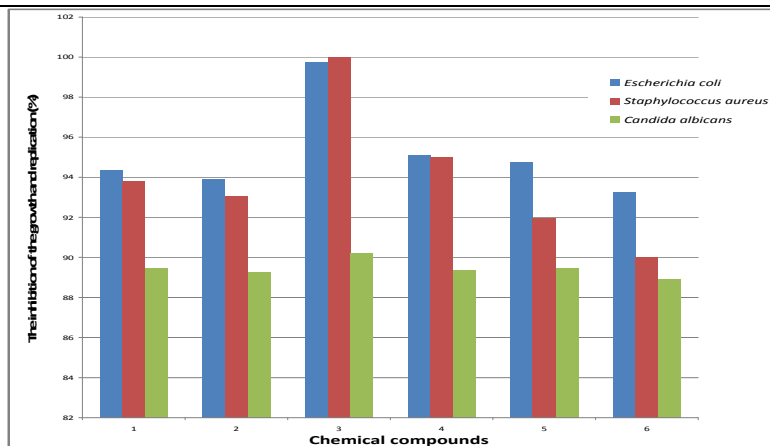


DOI: 10.33224/rch.2020.65.10.03  
Rev. Roum. Chim., 2020, 65(10), 885-891

**Key words:** benzoxanonyhydrazone derivatives, conventional thermal heating, FT-IR, NMR.

**Anca Mihaela MOCANU, Mariana DIACONU and Laura BULGARIU**

Estimation of biocidal activity of some imidazoline derivatives by using pathogenic bacterial and yeast strains

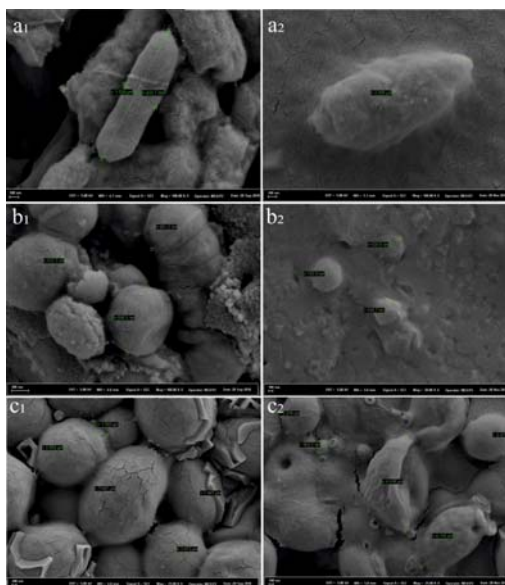


DOI: 10.33224/rch.2020.65.10.04  
Rev. Roum. Chim., 2020, 65(10), 893-898

**Key words:** imidazoline derivatives, antimicrobial activity, pathogenic bacterial, submerged cultivation method, biomass determination.

**Elif Ayşe Erdoğan ELIUZ, Erdal YABALAK and Yusuf SİCAK**

Chemical composition and antimicrobial activity of essential oil of *Citrus sinensis*: interaction with ampicillin and fluconazole

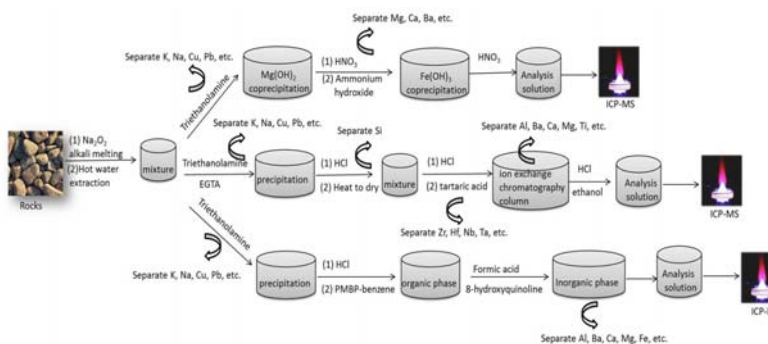


DOI: 10.33224/rch.2020.65.10.05  
Rev. Roum. Chim., 2020, 65(10), 899-907

**Key words:** antimicrobial checkerboard method, chemical composition, *Citrus sinensis*, ampicillin, fluconazole.

**Wenzhi ZHAO, Chuanfang ZHOU, Bing LU, Junbo YU and Yuan ZHANG**

Alkali fusion co-precipitation/cation exchange/extraction enrichment for determination of trace rare earth elements in rocks by inductively coupled plasma mass spectrometry

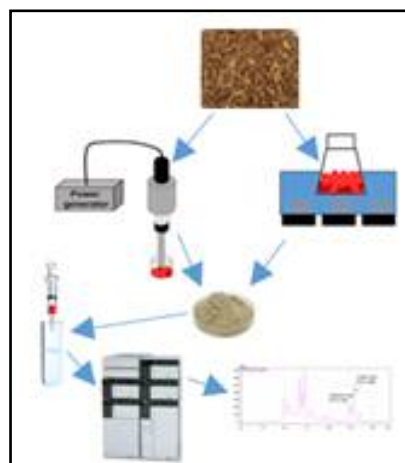


DOI: 10.33224/rch.2020.65.10.06  
Rev. Roum. Chim., 2020, 65(10), 909-917

**Key words:** rare earth elements (REEs), co-precipitation; cation exchange, extraction enrichment, inductively coupled plasma mass spectrometry (ICP-MS).

**Imeda RUBASHVILI, Mzia TSITSAGI,  
Marine ZAUTASHVILI,  
Mariam CHKHAIDZE, Ketevan EBRALIDZE  
and Vladimer TSITSISHVILI**

Extraction and analysis of oleanolic acid and ursolic acid from apple processing waste materials using ultrasound-assisted extraction technique combined with high performance liquid chromatography

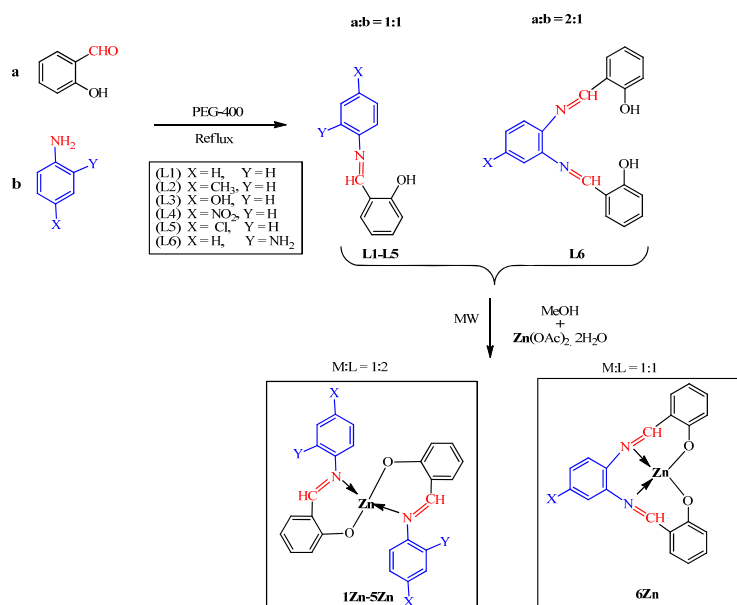


DOI: 10.33224/rch.2020.65.10.07  
Rev. Roum. Chim., 2020, 65(10), 919-928

**Key words:** oleanolic acid, ursolic acid, ultrasound-assisted extraction technique, HPLC method.

**Uzma ALI, Aneela MAALIK,  
Muhammad Babar TAJ, Ahmad RAHEEL,  
Ahmad Kaleem QURESHI,  
Muhammad IMRAN, Muhammad SHARIF,  
Syed Ahmad TIRMIZI, Sadia NOOR and  
Heba ALSHATER**

Facile synthesis, solubilization studies and anti-inflammatory activity of amorphous zinc(II) centered aldimine complexes

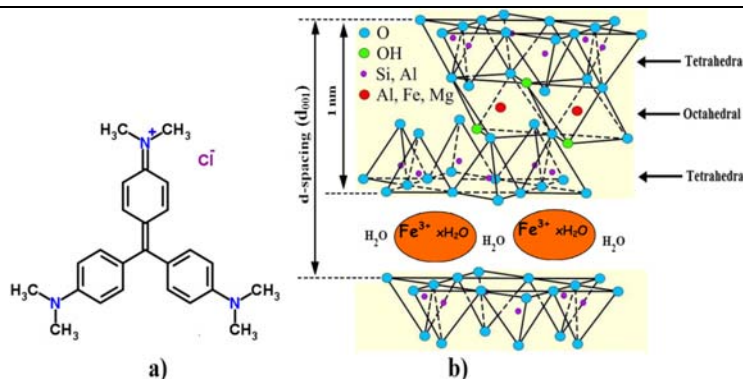


DOI: 10.33224/rch.2020.65.10.08  
Rev. Roum. Chim., 2020, 65(10), 929-941

**Key words:** aldimine derivatives, solubilization, anionic surfactants, anti-inflammatory activity

**Soufiane BOUDJEMAA**

Preparation and characterisation of montmorillonite-Fe<sup>3+</sup> (MMT-Fe<sup>3+</sup>) nanoclay mineral for crystal violet (CV) removal from aqueous solutions

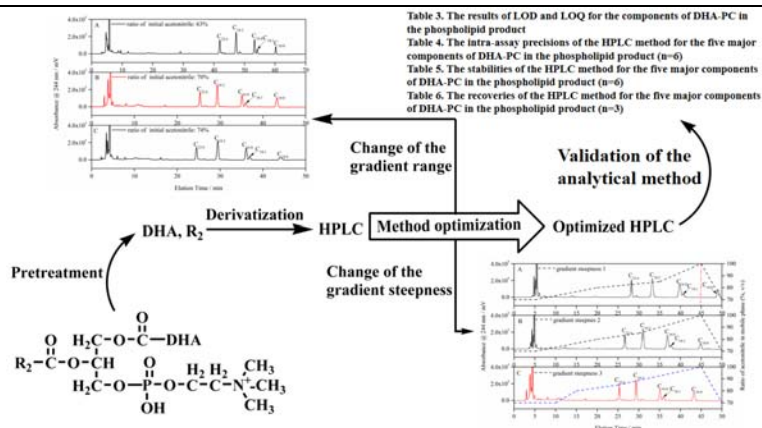


DOI: 10.33224/rch.2020.65.10.09  
Rev. Roum. Chim., 2020, 65(10), 943-953

**Key words:** montmorillonite, montmorillonite-Fe<sup>3+</sup>, crystal violet, removal, adsorption, kinetics.

Li LIU, Tiantian ZHANG, Xiaoli ZHANG,  
Jiao WANG, Wenfang SHU, Xinyu QI,  
Binxia ZHAO and Binglin LI

An efficient method for determination of  
components in docosahexaenoic  
acid-phosphatidylcholine using pre-column  
derivatization HPLC



DOI: 10.33224/rch.2020.65.10.10  
 Rev. Roum. Chim., 2020, 65(10), 955-962

**Key words:** DHA-PC, fatty acids,  $\alpha$ -bromoacetophenone, triethylamine, HPLC.