

REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

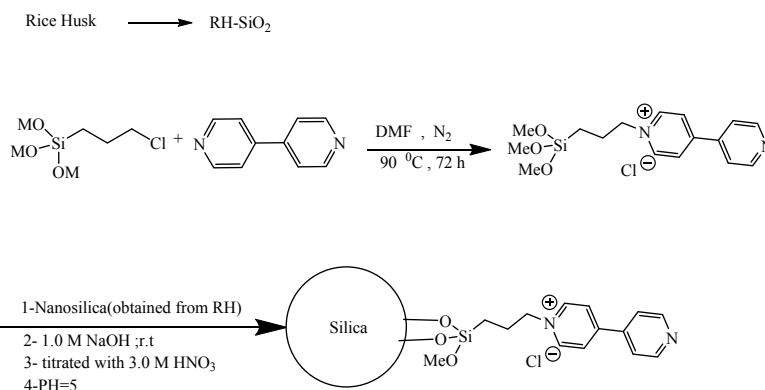
Tome 64, N° 11

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PAPERS

Ali Reza KIASAT, Sheida HAMID and Seyyed Jafar SAGHANEZHAD

Bipyridinium chloride supported rice husk silica: an efficient nanocomposite for the one-pot preparation of spirooxindole pyran and 2-amino-4H-chromene derivatives

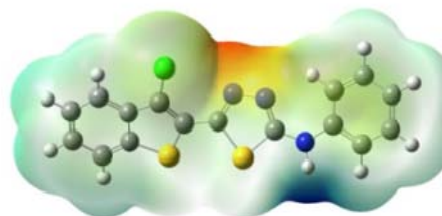


DOI: 10.33224/rch.2019.64.11.01
Rev. Roum. Chim., 2019, 64(11), 927-934

Key words: nanosilica, nanocomposite, rice husk nanosilica, bipyridine, spirooxindole pyrans, 2-amino-4H-chromenes.

Nabila AOUMEUR, Nouredine TCHOUAR, Salah BELAIDI, Dalal HARKATI, Houmam BELAIDI and Abderrahmane ROUANE

In silico investigation applied in physical, chemical properties and vibrational analysis of 1,3,4-thiadiazole derivatives



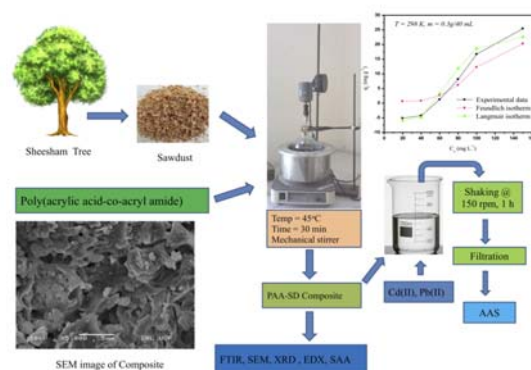
DOI: 10.33224/rch.2019.64.11.02
Rev. Roum. Chim., 2019, 64(11), 935-948

Key words: 1,3,4-thiadiazole, DFT, MESP, GIOAO, vibrational analysis.

Abdul Qayyum KHAN, Ata Ur RAHMAN, Muhammad YASEEN, Haroon Ur RASHID, Mahmood IQBAL and Mushtaq Ur REHMAN

Synthesis and characterization of poly(acrylic acid-co-acrylamide)-sawdust composite for the adsorptive removal of Cd(II) and Pb(II) from aqueous solutions

GRAPHICAL ABSTRACT

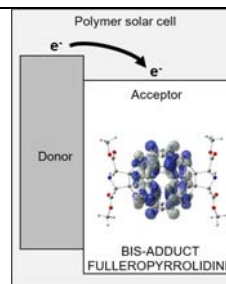


DOI: 10.33224/rch.2019.64.11.03
Rev. Roum. Chim., 2019, 64(11), 949-963

Key words: poly(acrylic acid-co-acryl amide)/sawdust composite, heavy metal, adsorption isotherm, activation energy, SEM, FT-IR.

Seif BENNIA, Noura KHEMIRI, Rim MILAD, Abdesslem JEDIDI, Manef ABDERRABBA and Sabri MESSAOUDI

Theoretical study of bis-adduct fulleropyrrolidines isomers

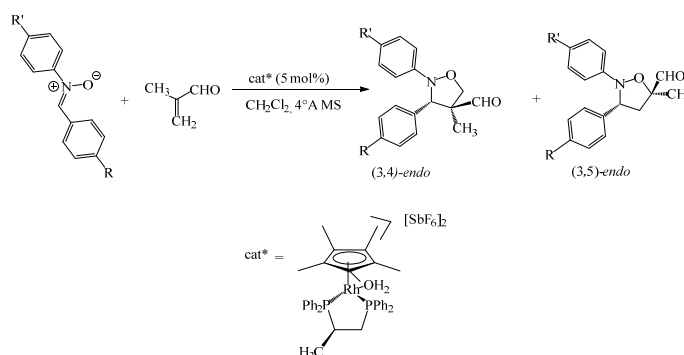


DOI: 10.33224/rch.2019.64.11.04
Rev. Roum. Chim., 2019, 64(11), 965-971

Key words: fulleropyrrolidines, bis-adduct, density functional theory, photovoltaic cells, LUMO energy.

Madiha DJAHIECHE, Hamza BOUFENAYA and Abbes BOUKHARI

Regio- and stereoselectivity of [3+2] cycloaddition reaction of methacrolein with diarylnitrones catalyzed by chiral rhodium complex



DOI: 10.33224/rch.2019.64.11.05
Rev. Roum. Chim., 2019, 64(11), 973-980

Key words: aromatic nitrones, 1,3-dipolar cycloaddition, stereoselectivity, enantioselectivity, methacrolein.

Veronica BRĂȚAN and Nicolae I. IONESCU

The adsorption of O₂ on ZnO and the logarithmic law

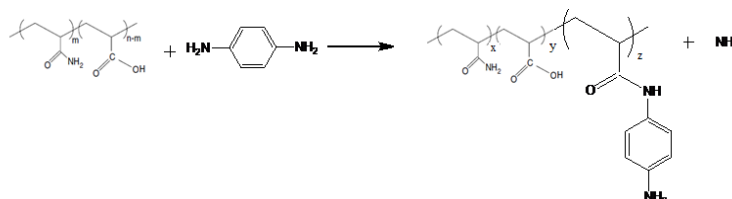
$$\frac{dq}{dt} = a \exp(-bq^2)$$

DOI: 10.33224/rch.2019.64.11.06
Rev. Roum. Chim., 2019, 64(11), 981-983

Key words: adsorption solid-gas, nonlogarithmic rate law.

Brahim BOURAS, Tayeb HOCINE, Karim BENHABIB, Redouane ZAIR, Asma MANSRI, Lahcène TENNOUGA and Kaddour GUEMRA

Turbidity removal from bentonite suspension by coagulation/flocculation using modified *p*-phenylenediamine/poly(acrylamide)

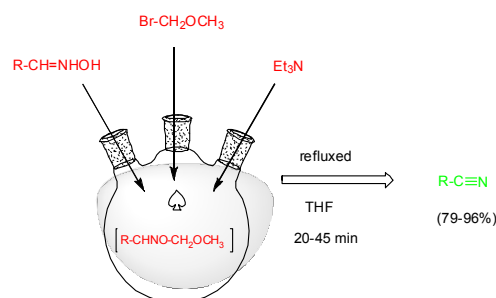


DOI: 10.33224/rch.2019.64.11.07
Rev. Roum. Chim., 2019, 64(11), 985-991

Key words: modified copolymer, *p*-phenylenediamine, hydrolyzed poly(acrylamide), flocculation, turbidity.

Nesimi ULUDAG and Ozge NUR GIDEN

A new reagent for efficient synthesis of nitriles from aldoximes using methoxymethyl bromide

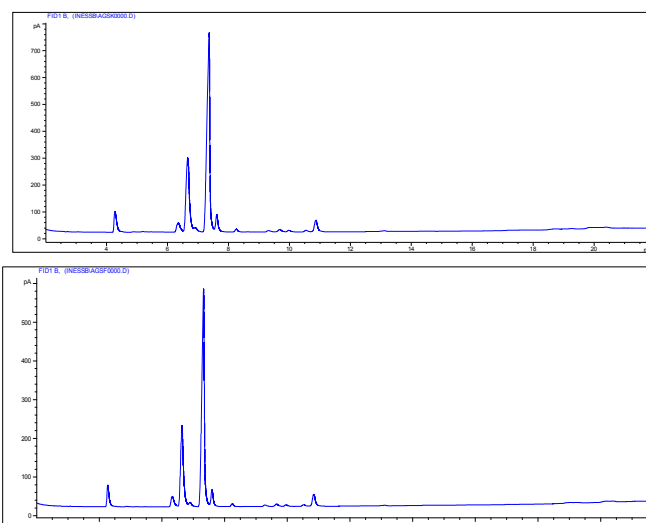


DOI: 10.33224/rch.2019.64.11.08
Rev. Roum. Chim., 2019, 64(10), 993-998

Key words: aldoxime, nitriles, methoxymethyl bromide, dehydration, oximes.

**Ghayth RIGANE, Jed JEBALI,
Hanen GHAZGHAZI, Hajer RIGUENE,
Mohamed LAARBI KHOUJA and
Ridha BEN SALEM**

Chemical composition and biological activities
of *Pinus halepensis* Mill. oil

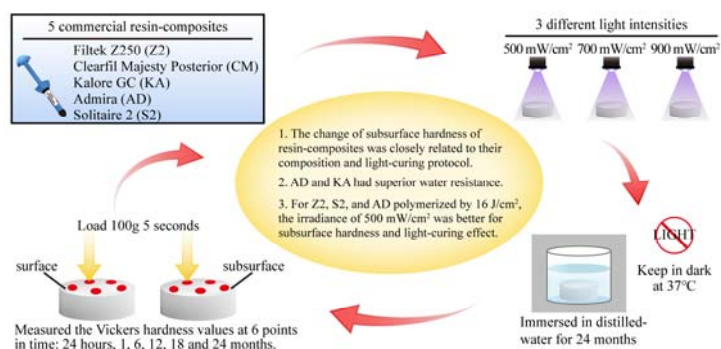


DOI: 10.33224/rch.2019.64.11.09
Rev. Roum. Chim., 2019, 64(11), 999-1006

Key words: *Pinus halepensis*, phenolic content, fatty acid, oil.

**Tong XU, Jia-Hui ZHANG, Zhao-Ying LIU,
Xuan LI and Song ZHU**

Effect of light intensity and water aging on surface
hardness of dental resin-composites



DOI: 10.33224/rch.2019.64.11.10
Rev. Roum. Chim., 2019, 64(11), 1007-1014

Key words: resin-composite, surface hardness, water aging, light intensity.

