

# REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

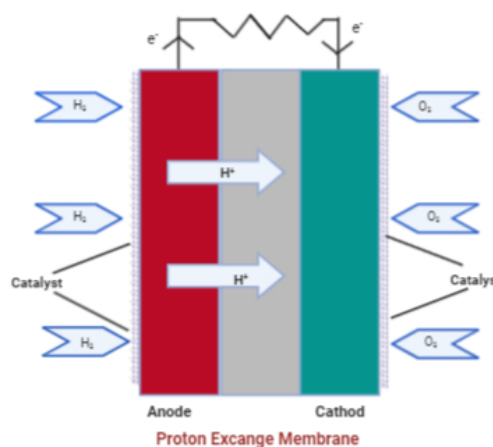
Tome 66, N° 5

Mai 2021

## PAPERS

**Mallikarnunagouda PATIL**

Synthesis and characterization of zinc oxide based poly vinylalcohol nanocomposite membranes and their fuel cell measurement

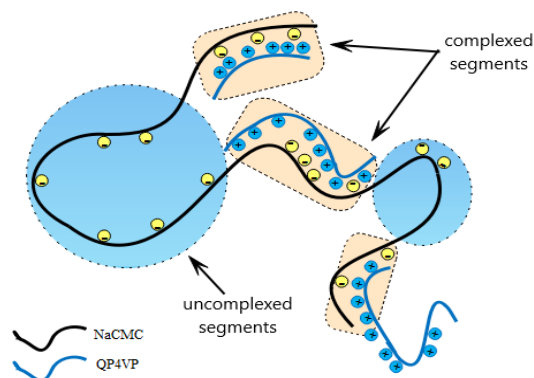


DOI: 10.33224/rch.2021.66.5.01  
Rev. Roum. Chim., 2021, 66(5), 391-397

**Key words:** proton exchange fuel cell, poly vinylalcohol, metal oxide nanoparticles, nanocomposite.

**Leyla MEHIAOUI, Ahmed BENALI, Lahcene TENNOUGA, Brahim BOURAS and Kouider MEDJAHED**

Polyelectrolyte complexes formation based on carboxymethylcellulose sodium salt (NaCMC) and quaternized poly(4-vinylpyridine) (QP4VP)

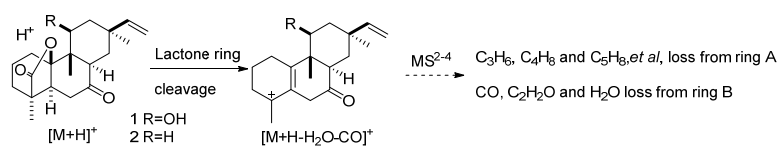


DOI: 10.33224/rch.2021.66.5.02  
Rev. Roum. Chim., 2021, 66(5), 399-407

**Key words:** PECs, QP4VP, NaCMC, interaction, rheology.

**Tian-shan WANG**

Study of ring-open fragmentation in two rosane-type diterpenoid lactones by ESI-MS<sup>n</sup> (quadrupole time-of-flight and ion trap)



DOI: 10.33224/rch.2021.66.5.03  
Rev. Roum. Chim., 2021, 66(5), 409-416

**Key words:** fragmentation, rosane-type diterpenoid lactones, multi-stage ESI-MS.

Dana Maria POPESCU-SPINENI,  
Alexandru Constantin MOLDOVEANU,  
Petru ARMEAN,  
Constantin IONESCU-TÎRGOVIȘTE,  
Costin MILITARU and  
Anca Magdalena MUNTEANU

Antimicrobial effect of *Cannabis sativa* L.

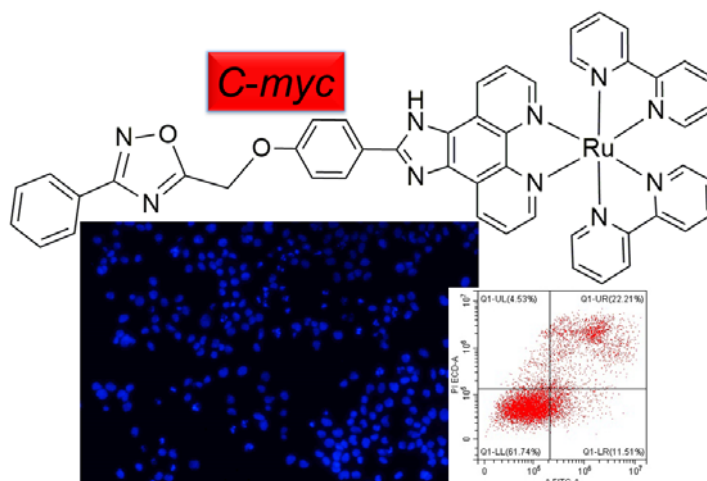


DOI: 10.33224/rch.2021.66.5.04  
Rev. Roum. Chim., 2021, 66(5), 417-422

**Key words:** *Cannabis sativa*, antimicrobial properties, microbial resistance, microbial infections.

Shuangmei YAN, Zebao ZHENG, Yue CUI,  
Yaxuan MI, Hongmei LIU, Xiaolong ZHAO and  
Duqiang LUO

*C-MYC* G-quadruplex stabilization  
and cytotoxicity of an oxadiazole-bearing  
ruthenium(II) complex

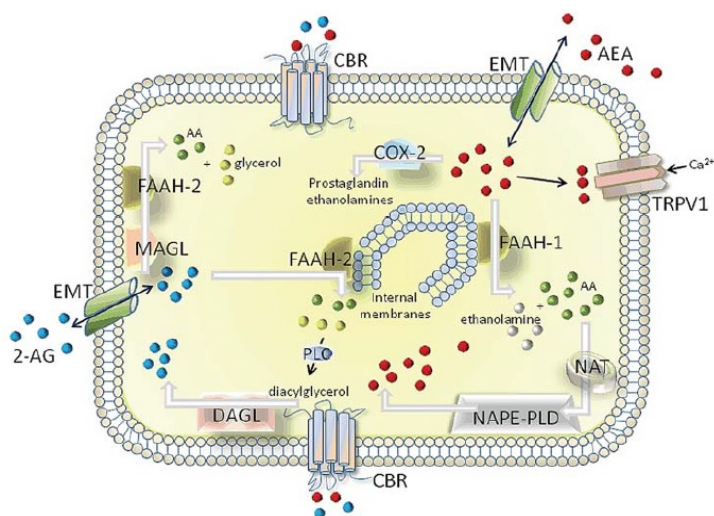


DOI: 10.33224/rch.2021.66.5.05  
Rev. Roum. Chim., 2021, 66(5), 423-433

**Key words:** ruthenium, *C-myc* G-quadruplex, cytotoxicity.

Dana Maria POPESCU-SPINENI,  
Răzvan CHIVU,  
Alexandru Constantin MOLDOVEANU,  
Constantin IONESCU-TÎRGOVIȘTE and  
Anca Magdalena MUNTEANU

Considerations on the therapeutical potential  
of medicinal cannabis, from a biochemical view

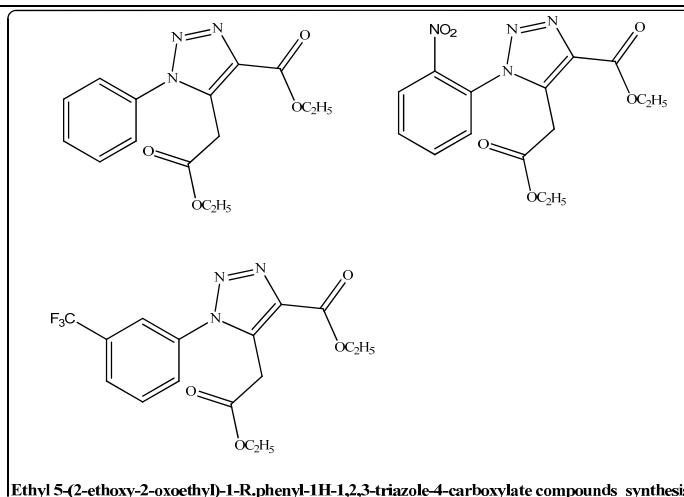


DOI: 10.33224/rch.2021.66.4.06  
Rev. Roum. Chim., 2021, 66(4), 435-444

**Key words:** medicinal cannabis, biochemistry, endocannabinoid system, phytocannabinoids, epigenetics, public health.

**Chames Eddine FATMI, Souad BOUASLA and Mabrouk TEGUICHE**

Reaction of some X-phenylazides derivatives with diethyl 1,3-acetonedicarboxylate

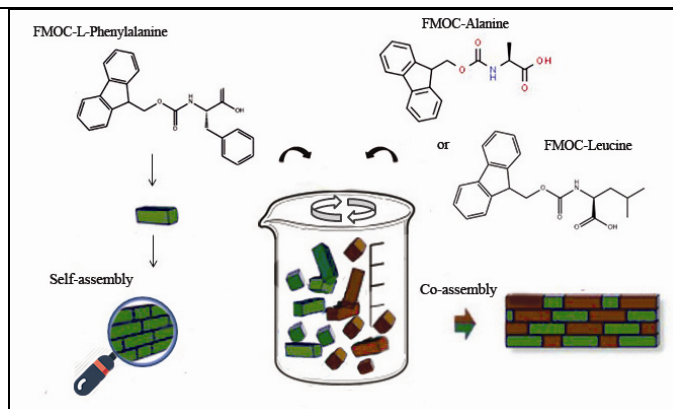


DOI: 10.33224/rch.2021.66.5.07  
Rev. Roum. Chim., 2021, 66(5), 445-448

**Key words:** phenyl azides, DEAD, condensation, EtONa, 1,4,5-trisubstituted 1,2,3-triazoles.

**Alexandra CROITORIU, Loredana E. NITA, Alina G. RUSU, Florica DOROFTEI and Liliana VERESTIUC**

Co-assembled peptides hierarchically oriented for supramolecular gel formation



DOI: 10.33224/rch.2021.66.5.08  
Rev. Roum. Chim., 2021, 65(5), 449-461

**Key words:** Fmoc-group, peptide hydrogels, co-assembly, low molecular weight gelators

**Niculae I. Ionescu**

Concerning the formal kinetics of gas adsorption on solid surfaces

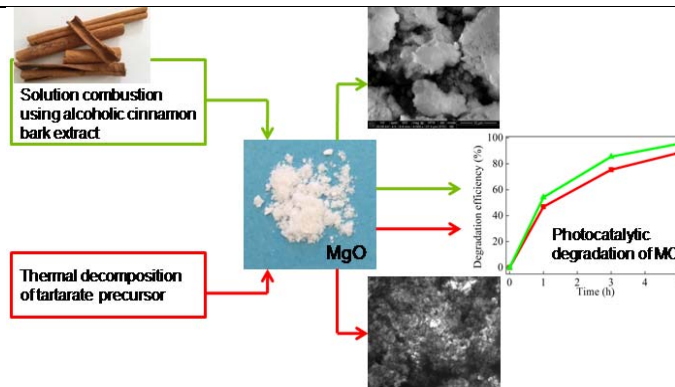
$$\frac{dq}{dt} = a \exp(-bq)$$

DOI: 10.33224/rch.2021.66.5.09  
Rev. Roum. Chim., 2021, 66(5), 459-461

**Key words:** adsorption solid-gas, logarithmic rate law.

**Dana GINGAȘU, Ioana MÎNDRU, Daniela C. CULIȚĂ, Luminița PREDOANĂ, Gabriela PETCU, Mădălina CIOBANU, Silviu PREDA, Jeanina PANDELE-CUȘU and Simona PETRESCU**

MgO obtained by chemical and green synthesis methods and applied in photocatalytic degradation of methyl orange



DOI: 10.33224/rch.2021.66.5.10  
Rev. Roum. Chim., 2021, 66(5), 463-473

**Key words:** MgO, complex precursors, cinnamon bark, photocatalytic activity.

