

REVUE ROUMAINE DE CHIMIE (ROMANIAN JOURNAL OF CHEMISTRY)

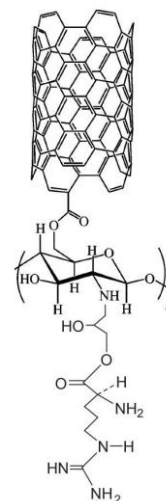
Tome 68, N^{os} 10–12

October–Décembre 2023

PAPERS

Roghayeh Rais Mohammadi DAHAJI,
Ali MOGHIMI, Hamidreza SHAHBAZI,
Hakim FARAJI and
Fariborz AZIZINEJAD

Preparation of modified multiwalled carbon nanotubes (l-Arg-CS/MWCNTs-COOH/Fe₃O₄) as sorbent for dispersive solid phase extraction of Cu(II), Pb(II) and Cd(II) in wastewater samples

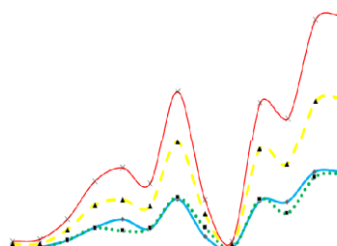


DOI: 10.33224/rrch.2023.68.10-12.01
Rev. Roum. Chim., 2023, 68(10–12), 495–505

Key words: dispersive solid phase extraction, multiwalled carbon nanotubes, metal ion, chitosan, l-Arginin.

Khaled S. M. ESSA and
Sawsan I. M. EL SAID

Three dimensions advection-diffusion equation in unstable condition

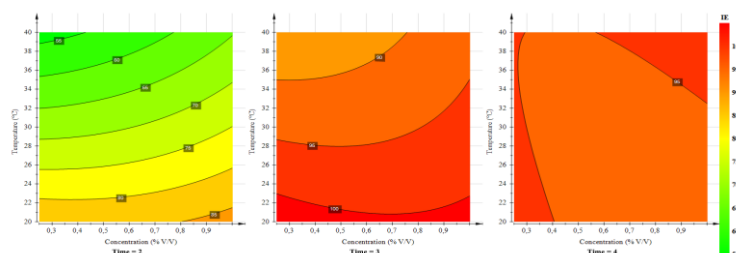


DOI: 10.33224/rrch.2023.68.10-12.02
Rev. Roum. Chim., 2023, 68(10–12), 507–513

Key words: eddy diffusivity, Monin-Obukhov length, atmospheric dispersion, Laplace transforms, emission Rate, separation variable, Laplace transform.

Benhadria NACEUR, Tarik ATTAR,
Abbes BENCHADLI and
Esma CHOUKCHOU-BRAHAM

The study of expired pharmaceutical drugs as corrosion inhibitor for carbon steel in acidic media using the design of experiment

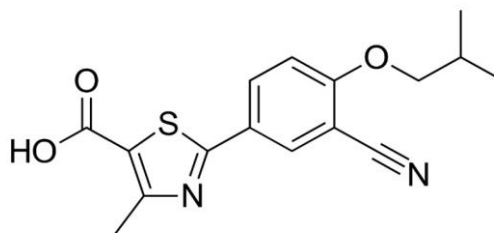


DOI: 10.33224/rrch.2023.68.10-12.03
Rev. Roum. Chim., 2023, 68(10–12), 515–525

Key words: inhibition efficiencies, carbon steel, phosphoric acid, thermodynamic and kinetic parameters, response surface methodology.

Emrullah BINAY, Cem ONAL,
Armağan ONAL and
Evrin Kepekci TEKKELI

Pharmacokinetic analysis of febuxostat in human serum by UFLC based on fluorimetric derivatization

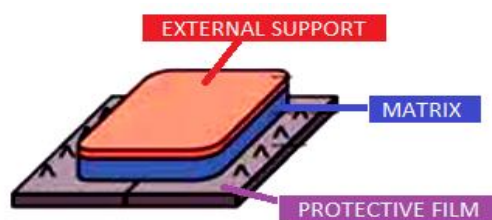


Key words: febuxostat, ultra fast liquid chromatography, fluorescence detection, 4-bromomethyl-7-methoxy coumarin, human serum.

DOI: 10.33224/rrch.2023.68.10-12.04
Rev. Roum. Chim., 2023, 68(10–12), 527–532

Mihaela ŞALARIU and
Anca Mihaela MOCANU

Obtaining of transdermal patches by means of natural active principles

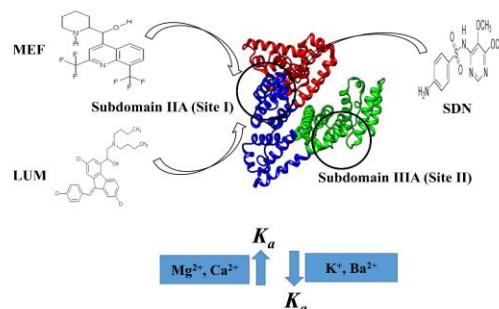


Key words: biofunctional textile support, cyclodextrin product, active principles, transdermal therapeutic patches, scanning electron microscopy, X-ray spectroscopy, thermal analysis.

DOI: 10.33224/rrch.2023.68.10-12.05
Rev. Roum. Chim., 2023, 68(10–12), 533–540

Kabiru Abubakar MUSA,
Jaslene Anne FRANCIS,
Saharuddin B. MOHAMAD and
Saad TAYYAB

Elucidating the influence of some metal ions on the binding of antimalarial drugs to human serum albumin: spectroscopic approach

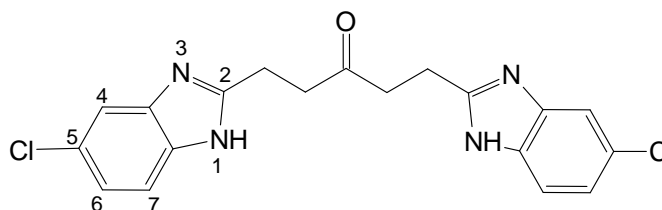


Key words: antimalarial drugs, human serum albumin, metal ions, fluorescence spectroscopy.

DOI: 10.33224/rrch.2023.68.10-12.06
Rev. Roum. Chim., 2023, 68(10–12), 541–545

Aydin TAVMAN, Demet GÜRBÜZ,
Ayça AKTAŞ KARAÇELİK, Bengü ERTAN
and Adem ÇINARLI

Synthesis, characterization, antibacterial and antioxidant activity of 1,5-bis(6-chloro-1*H*-benzimidazol-2-yl)pentan-3-one and its Fe(III), Co(II), Cu(II), Zn(II) and Ru(II) complexes

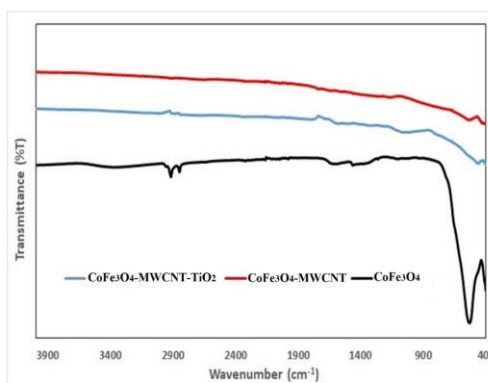


Key words: bis-benzimidazole, metal complexes, fluorescence, antibacterial, antioxidant.

DOI: 10.33224/rrch.2023.68.10-12.07
Rev. Roum. Chim., 2023, 68(10–12), 547–557

Fatma Bilge EMRE

Fast and precise $\text{CoFe}_3\text{O}_4/\text{TiO}_2/\text{MWCNT}$ -based voltammetric sensor preparation for salbutamol determination

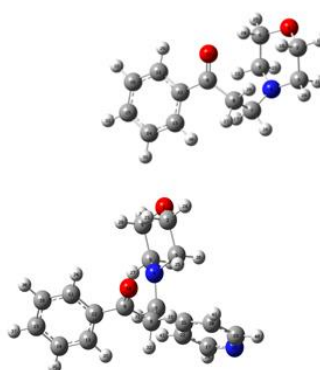


DOI: 10.33224/rrch.2023.68.10-12.08
 Rev. Roum. Chim., 2023, 68(10–12), 559–568

Key words: salbutamol, CoFe_3O_4 , TiO_2 , modified electrode, MWCNT, differential pulse voltammetry.

Khaoula KOUCHKAR, Adel KHIOUANI, Salah Eddine HACHANI, Youcef BOUMEDJANE, Abdelhek MEKLID and Sofiane MAKHLOUFI

The power of novel morpholinyl Mannich bases to protect N80 steel against corrosion in acidic environment: DFT and SAR investigations

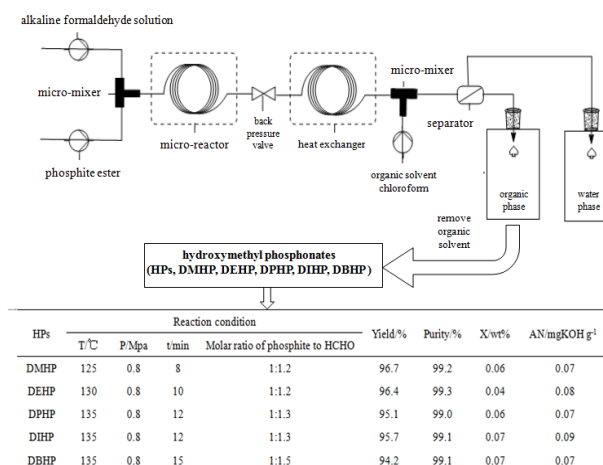


DOI: 10.33224/rrch.2023.63.10-12.09
 Rev. Roum. Chim., 2023, 68(10–12), 569–576

Key words: DFT, global reactivity, local reactivity, SAR, corrosion inhibition, morpholinyl mannich bases.

Zhiguo WANG, Hongxia LIU, Zhigang WANG and Xuefeng YANG

A continuous synthesis method of hydroxymethyl phosphonates using the microfluidic reactor

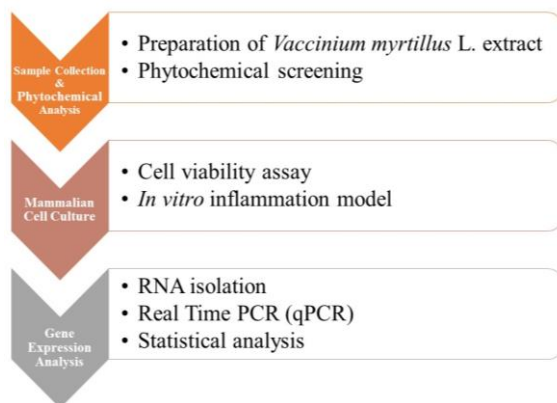


DOI: 10.33224/rrch.2023.63.1.10-12.10
 Rev. Roum. Chim., 2023, 68(10–12), 577–582

Key words: hydroxymethyl phosphonates, continuous synthesis, microfluidic reactor.

Beste BALBAL, Baris BITMEZ,
Irem Gulfem ALBAYRAK,
Seda KUSOGLU GULTEKIN,
Emine AKALIN, Kevsler SALIHLER,
Murat KARTAL and
Belkis ATASEVER ARSLAN

Effects of *Vaccinium myrtillus* L. extract on
TNF- α -induced inflammation human
paraoxonases

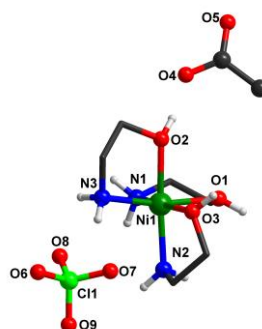


DOI: 10.33224/rrech.2023.63.10-12.11
Rev. Roum. Chim., 2023, 68(10–12), 583–587

Key words: *Vaccinium myrtillus* L., bilberry, ECV304, oxidative stress, cardioprotective effect.

Anca DUMBRAVA, Catalin MAXIM,
Cristian Andrei SPINU and
Marius ANDRUH

A mixed-anion complex of nickel(II) with
monoethanolamine



DOI: 10.33224/rrech.2023.63.10-12.12
Rev. Roum. Chim., 2023, 68(10–12), 589–594

Key words: nickel complexes; aminoalcohols ligands; crystal structure.

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Index of Subjects

Rev. Roum. Chim., 2023, 68(10–12), 601–603