

REVUE ROUMAINE DE CHIMIE (ROMANIAN JOURNAL OF CHEMISTRY)

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Avril-Mai 2022

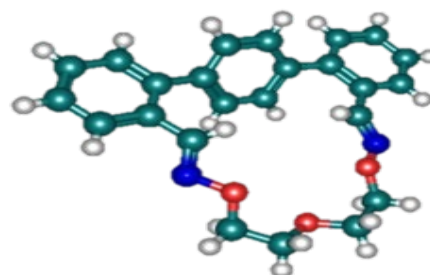
Acad. Ionel HAIDUC at his 85th anniversary – a life dedicated to science or how to transform a hobby in a successful profession

Rev. Roum. Chim., 2022, 67(4-5), 229-232

PAPERS

**Ioan STROIA, Alexandra POP,
Monica Irina NAN, Elena BOGDAN,
Anamaria TERC, Niculina D. HĂDADE and
Ion GROSU**

Novel macrocycles embedding
p,p'-terphenyl units: synthesis, characterization,
single crystal X-ray molecular structures and
theoretical investigations

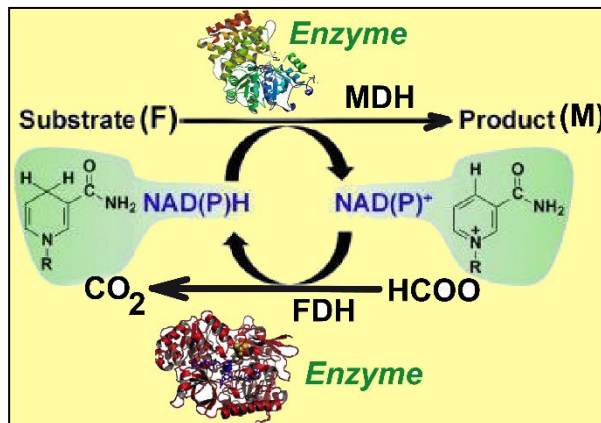


DOI: 10.33224/rch.2022.67. 4-5.01
Rev. Roum. Chim., 2022, 67(4-5), 233-239

Key words: *p,p'*-terphenyl, macrocycles, oximes, conformational behaviour.

**Gheorghe MARIA, Laura RENEĂ,
Ioana Mirela PEPTĂNĂRU and
Cristina MARIA**

In-silico optimization of a bi-enzymatic batch
reactor for mannitol production with continuous
regeneration of NADH cofactor



DOI: 10.33224/rch.2022.67. 4-5.02
Rev. Roum. Chim., 2022, 67(4-5), 241-249

Key words: D-fructose to D-mannitol conversion; batch reactor optimization; mannitol dehydrogenase; formate dehydrogenase; coenzyme NADH regeneration; overall kinetic model.

Niculae I. IONESCU

Kinetics of gas sorption on solid surfaces

$$\pm \frac{1}{q} = \frac{1}{k} \ln t$$

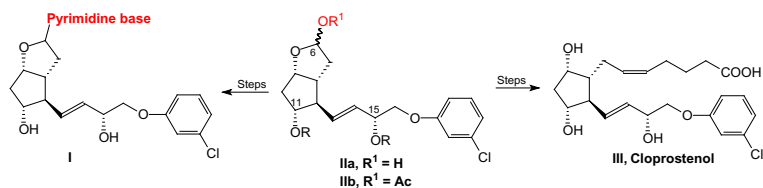
DOI: 10.33224/rch.2022.67. 4-5.03
Rev. Roum. Chim., 2022, 67(4-5), 251-253

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

Constantin TĂNASE, Constantin DRĂGHICI, Miron T. CĂPROIU, Lucia PINTILIE, Sultana NITA, Anamaria HANGANU and Maria MAGANU

A new way to nucleosides with an oxabicyclo[3.3.0]octane scaffold from an advanced intermediate in the synthesis of the prostaglandin analog, Cloprostenol

DOI: 10.33224/rch.2022.67. 4-5.04
Rev. Roum. Chim., 2022, 67(4-5), 255-261

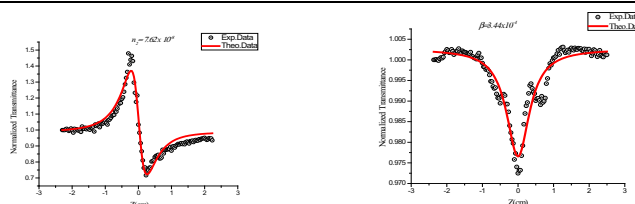


Key words: Vorbruggen synthesis, oxabicyclo[3.3.0]octane nucleoside, anomer nucleosides, prostaglandin intermediate, Cloprostenol.

Mohammed D. ZIDAN, Atef ARFAN and Ahmad ALLAHAM

Synthesis and nonlinear optical properties of ionic liquids like by z-scan technique

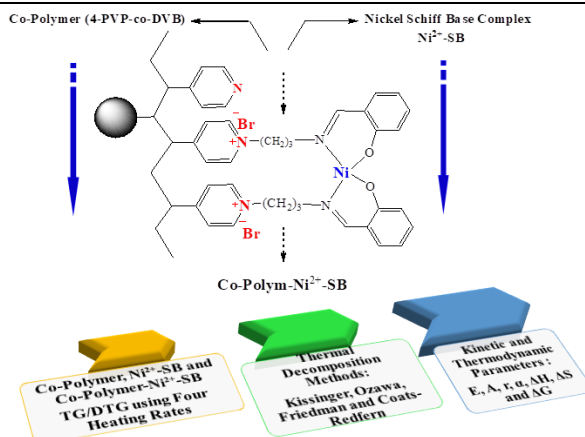
DOI: 10.33224/rch.2022.67. 4-5.05
Rev. Roum. Chim., 2022, 67(4-5), 263-270



Key words: 8-hydroxyquinolin salts, ion liquid materials, z-scan technique.

Djohra AGGOUN, Daniel LÓPEZ, Marta FERNÁNDEZ GARCÍA, Brahim BOUZERFA, Yasmina OUENNOUGHI, Abdeslam BEZZA, Hamza BEZZI and Ali OURARI

Ni(II)-macromolecular compound derived from poly(4-vinylpyridine-co-divinylbenzene) and Schiff Base nickel complex: thermo-degradation and kinetics behavior

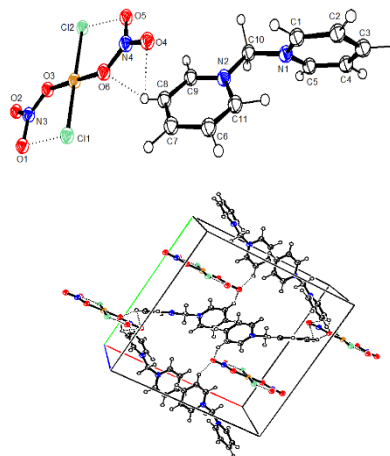


DOI: 10.33224/rch.2022.67. 4-5.06
Rev. Roum. Chim., 2022, 67(4-5), 271-282

Key words: macromolecular nickel complex, thermal analysis (TG/DTG), decomposition kinetics, activation energy, thermodynamic parameters.

Mahmoud M. Al-KTAIFANI, Mohammad K. SABRA, Bassem ASSFOUR and Fatemh MAKSOUD

A unique example of dichlorodinitratocuprate(II) complex: Synthesis and molecular structure of 1,1'-methylenedipyridinium dichlorodinitratocuprate(II)

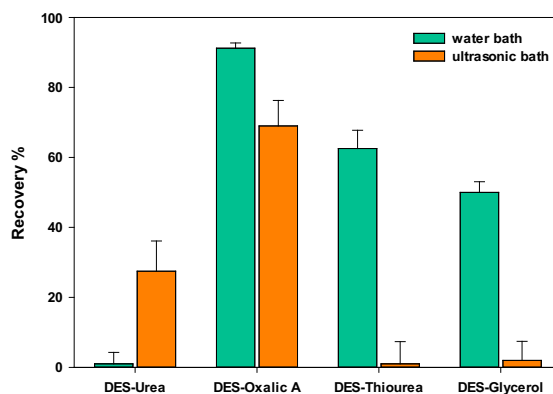


DOI: 10.33224/rch.2022.67. 4-5.07
Rev. Roum. Chim., 2022, 67(4-5), 283-292

Key words: halogen bond, 1,1'-methylenedipyridinium, dichlorodinitratocuprate, NMR, organic-inorganic hybrid salt, powder X-ray diffraction.

Esra BAĞDA, Hüseyin ALTUNDAĞ and Can Serkan KESKIN

Extraction and determination of Cd, Co, Se, V and Ag levels in cow's muscle, liver, kidney, lung, spleen and brain samples

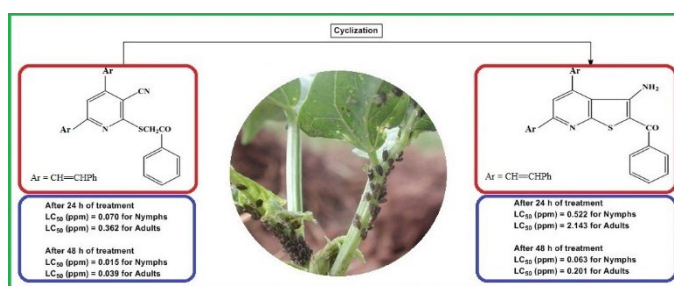


DOI: 10.33224/rch.2022.67. 4-5.08
Rev. Roum. Chim., 2022, 67(4-5), 293-304

Key words: deep eutectic solvent, total youden blank, metal, cow.

Shaban A. A. ABDEL-RAHEEM, Adel M. KAMAL EL-DEAN, Mokhtar A. ABDUL-MALIK, Islam S. MARAE, Etify A. BAKHITE, Reda HASSANIEN, Mohamed E. A. EL-SAYED, Remon M. ZAKI, Mahmoud S. TOLBA, Asmaa S. A. SAYED and Aly A. ABD-ELLA

Facile synthesis and pesticidal activity of substituted heterocyclic pyridine compounds

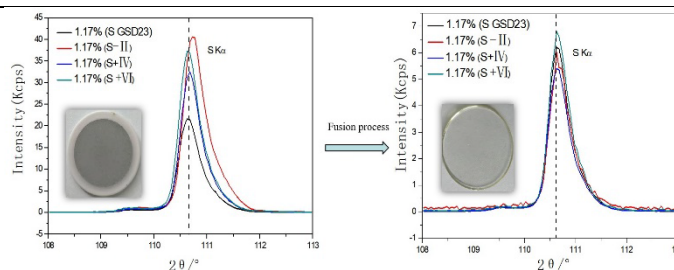


DOI: 10.33224/rch.2022.67. 4-5.09
Rev. Roum. Chim., 2022, 67(4-5), 305-309

Key words: heterocyclic compounds, substituted, cowpea aphid, analyses, acetamiprid.

Jiu-Fen LIU, Wen-Zhi ZHAO, Li-Ming XU, Ying-Zheng PEI and Xu XIE

Strategies for overcoming limitations of sulfur determination in geological samples by wavelength dispersive X-ray fluorescence spectrometry

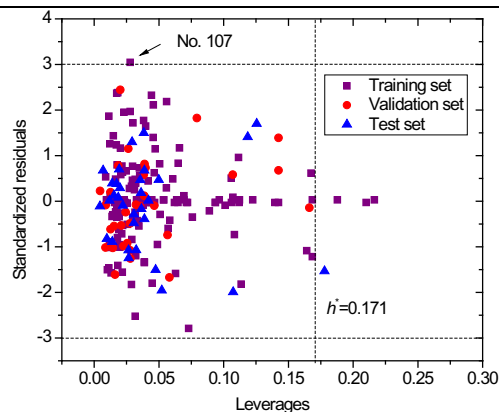


DOI: 10.33224/rch.2022.67. 4-5.10
Rev. Roum. Chim., 2022, 67(4-5), 311-319

Key words: wavelength dispersive X-ray fluorescence spectroscopy; geological sample; sulfur; bead; sulfur-fixing agent.

Linhai HU, Xianwei HUANG, Qun ZENG, Yuting WANG and Shizhang LI

Support vector machine model for predicting activity of inhibitors against SARS-COV 3CLpro enzyme

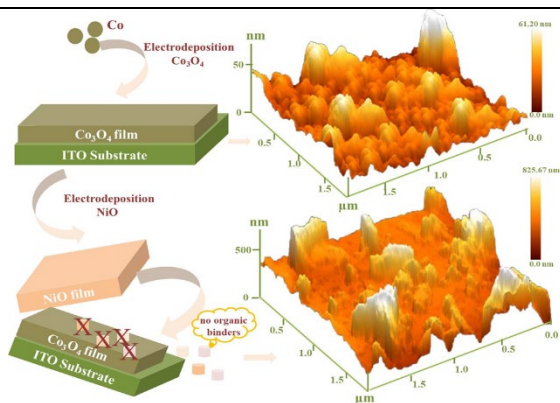


DOI: 10.33224/rch.2022.67.4-5.11
Rev. Roum. Chim., 2022, 67(4-5), 321-328

Key words: COVID-19; quantitative structure–activity relationship; SARS-CoV; SARS-CoV-2; SVM.

Fatma Bayrakçeken NISANCI

Preparation of high quality nickel oxide-cobalt
electrode materials on conductive substrates
by electrochemical method



DOI: 10.33224/rch.2022.67. 4-5.12

Rev. Roum. Chim., **2022**, 67(4-5), 329-338

Key words: Electrode materials, Co_3O_4 , NiO , Electrodeposition.