

REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

Tome 69, N^{os} 10–12

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REVIEW

Dana-Maria POPESCU-SPINENI,
Sebastian-Mihai ARMEAN, Loreta GUJA,
Melania Elena POP-TUDOSE, Razvan CHIVU
and Anca Magdalena MUNTEANU

Considerations on research in the field of medicinal cannabis



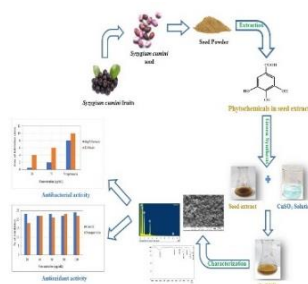
DOI: 10.33224/rrech.2024.69.10-12.01
Rev. Roum. Chim., 2024, 69(10–12), 523–534

Key words: medicinal cannabis, evidence-based research, research gaps, public health, hygiene.

PAPERS

Sowmya BALAJI, Induja SUNDARESAN,
Santhoshkumar JAYAKODI,
Venkat Kumar SHANMUGAM,
Hanen SELLAMI
and Rajeshkumar SHANMUGAM

Green synthesis of copper oxide nanoparticles using *Syzygium cumini* seed extract and its antioxidant and antibacterial activity

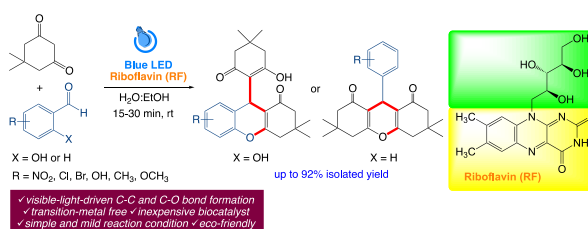


DOI: 10.33224/rrech.2024.69.10-12.02
Rev. Roum. Chim., 2024, 69(10–12), 535–543

Key words: green synthesis, copper oxide nanoparticles, *Syzygium cumini*, antibacterial activity, antioxidant activity.

Akanksha KASHYAP, Pravin K. SINGH,
Shraddha TIVARI, Mohd. Zaheeruddin BEG,
Praveen P. SINGH and Vishal SRIVASTAVA

Riboflavin induced photocatalysed synthesis of xanthenes derivatives

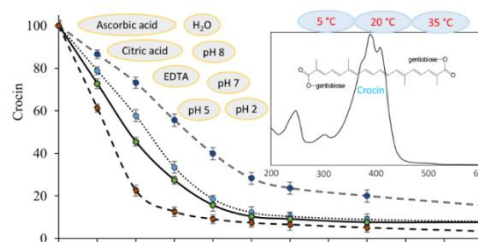


DOI: 10.33224/rrech.2024.69.10-12.03
Rev. Roum. Chim., 2024, 69(10–12), 545–554

Key words: visible-light, riboflavin, photoredox, xanthenes, single electron transfer.

Mostapha BACHI-BEY,
Aicha BENBOURICHE, Dyhia SADOU,
Lahna MERRANI, Yazid KHALED KHODJA
and Djamel Edine KATI

Study of the degradation kinetics of crocin during storage at different temperatures: effect of pH variation and the use of preservatives

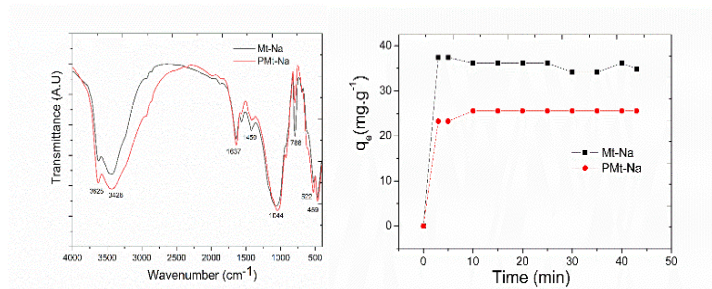


DOI: 10.33224/rrech.2024.69.10-12.04
Rev. Roum. Chim., 2024, 69(10–12), 555–564

Key words: crocin, degradation kinetic, pH, preservatives, storage, temperature.

Abdeljabbar BELBEL, Ahmed DRAOUI and Kadour CHERAIF

Zr-pillared montmorillonite clay as host to ionic liquids from aqueous solutions

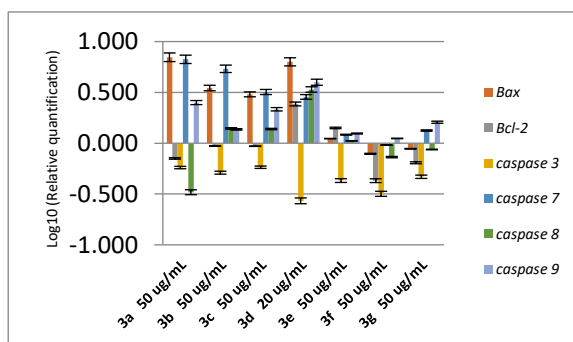


DOI: 10.33224/rrch.2024.69.10-12.05
 Rev. Roum. Chim., 2024, 69(10–12), 565–571

Key words: montmorillonite, pillared clays, zeta-potential (ζ).

Rodica Daniela BARATOIU-CARPEN, Marioara BEM, Lilia MATEI and Coralia BLEOTU

Evaluation of biological properties of some nitrobenzofurazan derivatives containing a sulfide group

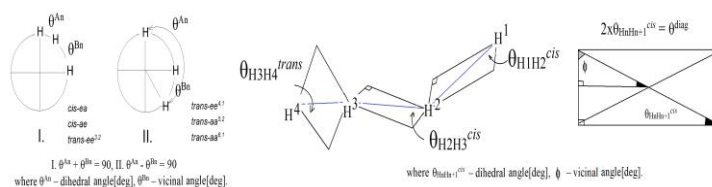


DOI: 10.33224/rrch.2024.69.10-12.06
 Rev. Roum. Chim., 2024, 69(10–12), 573–578

Key words: nitrobenzofurazan, NBD, cytotoxic activity, eukaryotic cells, apoptosis.

Carmen-Irena MITAN, Emerich BARTHA and Petru FILIP

Distances $l_{HHnHn+1}[A^0]$ calculated from 3-sphere dihedral angles $\theta_{HnHn+1}[\text{deg}]$

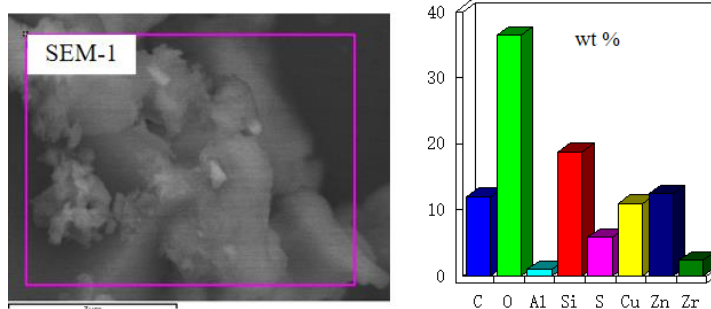


DOI: 10.33224/rrch.2024.69.10-12.07
 Rev. Roum. Chim., 2024, 69(10–12), 579–584

Key words: 3-sphere, Hopf fibration, Lie group, dihedral angle, vicinal angle, vicinal coupling constant, distance $l_{HH}[A^0]$.

Jie YANG, Jinlei MENG, Jingjing SHI, Xuechun SONG and Tao CHEN

Adsorption of methylene blue by (Co, Cu, Zn and Ce)-modified ZSM-5 molecular sieve

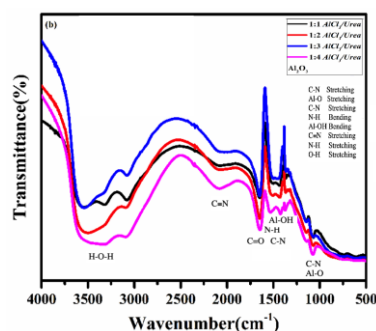


DOI: 10.33224/rrch.2024.69.10-12.08
 Rev. Roum. Chim., 2024, 69(10–12), 585–593

Key words: ZSM-5, molecular sieve, modified, methylene blue.

Ranjana GOSWAMI, Y. C. GOSWAMI and Mahdi SHARESTANI

Synthesis and characterization of aluminium oxide nano adsorbents *via* a sustainable combustion method for methyl red remediation

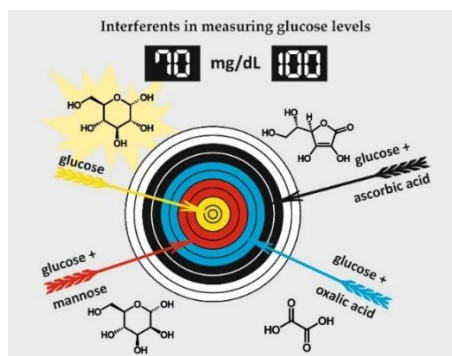


DOI: 10.33224/rrch.2024.69.10-12.09
 Rev. Roum. Chim., 2024, 69(10–12), 595–603

Key words: nano-absorbance, aluminum oxide(NPs), methyl red, mesoporous.

Andrei-Gabriel GRECU, George COSTACHE, Nicoleta SANDU, Marius Lucian MATACHE and Mihaela MATACHE

Interference study of glucose level measurements using glucometers based on glucose oxidase

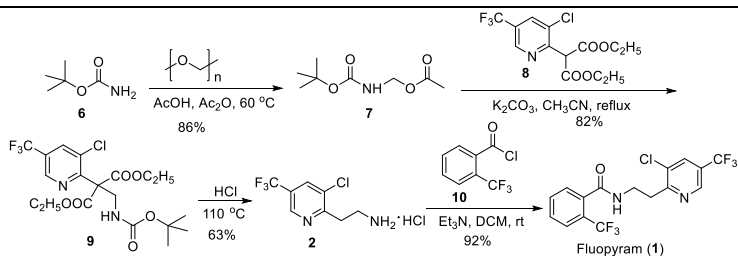


DOI: 10.33224/rrch.2024.69.10-12.10
 Rev. Roum. Chim., 2024, 69(10–12), 605–612

Key words: glucometer, biosensor, ascorbic acid, oxalic acid, mannose.

Hao CHEN, Rusheng BAO, Jian LIN, Jianying HUANG, Yunxia LI and Shijun LI

A novel and practical synthetic process for fluopyram

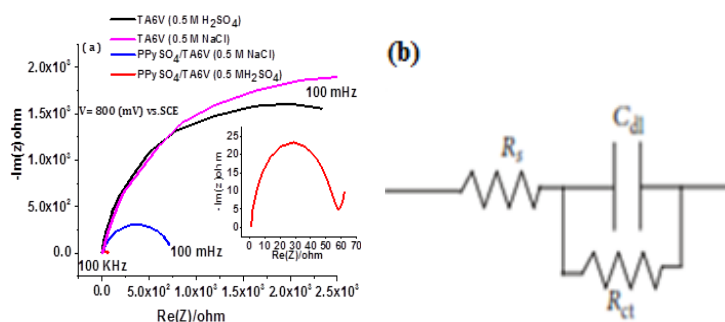


DOI: 10.33224/rrch.2024.69.10-12.11
 Rev. Roum. Chim., 2024, 69(10–12), 613–619

Key words: fluopyram, fungicide, synthetic route, process optimization.

Mounira MAIZA, Abderrazak HAMAM and Abderrahim Hadj LARBI

The study of physicochemical and electrochemical properties of new hybrid PPySO₄-coatings on Ti6Al4V

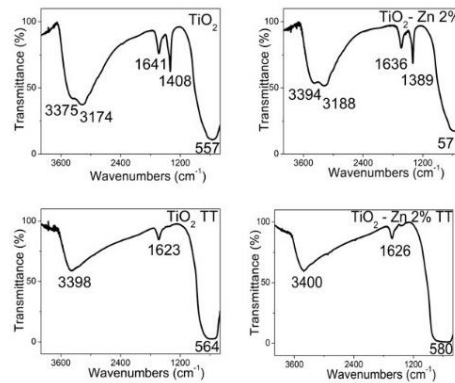


DOI: 10.33224/rrch.2024.69.10-12.12
 Rev. Roum. Chim., 2024, 69(10–12), 621–627

Key words: characterization, alloys, polypyrrole, coatings, fabrication, material properties.

**Adriana RUSU, Luminița PREDOANĂ,
Silviu PREDA, Daniela Cristina CULIȚĂ
and Maria ZAHARESCU**

FT-IR spectroscopy study of the TiO₂ based
powders prepared by the sol-gel method

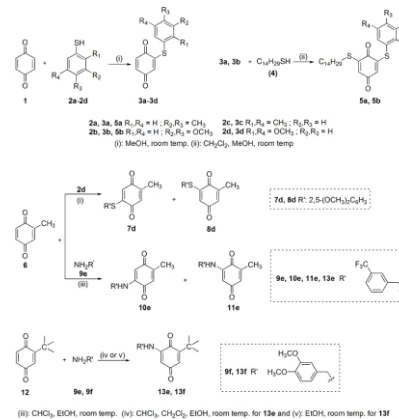


DOI: 10.33224/rrch.2024.69.10-12.13
Rev. Roum. Chim., 2024, 69(10–12), 629–634

Key words: FT-IR analysis, sol-gel method, cerium/tin/copper/zinc doped TiO₂, XRD-analysis, photocatalytic investigations.

Aysecik KACMAZ

Synthesis of mono(thio)-, bis(thio)- and
mono(amino)- substituted 1,4-benzoquinones



DOI: 10.33224/rrch.2024.69.10-12.14
Rev. Roum. Chim., 2024, 69(10–12), 635–642

Key words: p-toluquinone; 2-*tert*-butyl-1,4-benzoquinone, aminoquinones

**Dragoș SIMION, Andrei POCORA and
Manuela Rossemary APETROAEI**

Preliminary physical-chemical analyses used in
the evaluation of "in service" marine diesel engine
lubricating

DOI: 10.33224/rrch.2024.69.10-12.15
Rev. Roum. Chim., 2024, 69(10–12), 643–652

Key words: marine lubricating oil testing, density, acid number, viscosity analyses, soot, condition monitoring.

INDEX OF AUTHORS

Rev. Roum. Chim., 2024, 69(10-12), 653-659

INDEX OF SUBJECTS

Rev. Roum. Chim., 2024, 69(10–12), 661–664