

# REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

Tome 67, N<sup>os</sup> 1-2

Janvier-Février 2022

## PAPERS

Petru FILIP and Mircea D. GHEORGHIU

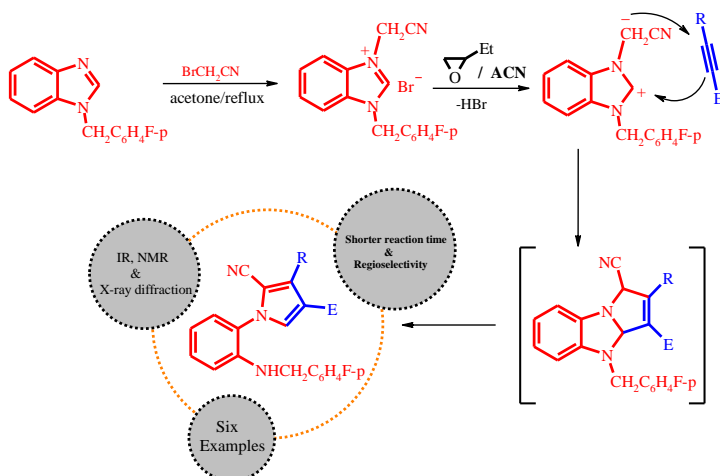
Dr. Emilian Georgescu, a passionate and compassionate chemist

DOI: 10.33224/rch.2022.67.1-2.01

Rev. Roum. Chim., 2022, 67(1-2), 5-42

Florea DUMITRASCU, Emilian GEORGESCU,  
Mino R. CAIRA, Constantin DRAGHICI,  
Florentina GEORGESCU, Marcel M. POPA,  
Stefania-Felicia BARBUCEANU and  
Beatrice-Cristina IVAN

The transformation of benzimidazoles into  
fluorinated pyrroles *via* cycloaddition  
reactions of benzimidazolium N-ylides



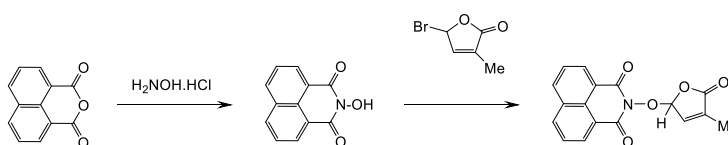
DOI: 10.33224/rch.2022.67.1-2.02

Rev. Roum. Chim., 2022, 67(1-2), 43-50

**Key words:** benzimidazolium N-ylides, 1,3-dipolar cycloaddition, pyrrole, X-ray.

Ioana BALA, Anton AIRINEI,  
Emilian GEORGESCU, Florin OANCEA,  
Florentina GEORGESCU, Alina NICOLESCU,  
Radu TIGOIANU and Calin DELEANU

Photophysical and biological properties  
of a strigolactone mimic derived from  
1,8-naphthalic anhydride



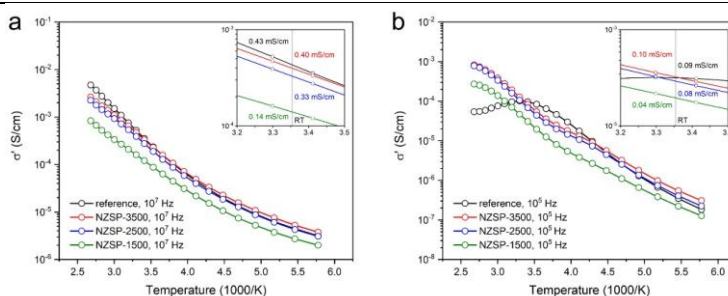
DOI: 10.33224/rch.2022.67.1-2.03

Rev. Roum. Chim., 2022, 67(1-2), 51-62

**Key words:** strigolactones mimics, UV, fluorescence quantum yield, NMR.

Adriana MARINOIU, Mihaela IORDACHE  
and Athanasios TILIAKOS

Solid-state synthesis of optimized NASICON  
Na<sub>3</sub>Zr<sub>2</sub>Si<sub>2</sub>PO<sub>12</sub> ceramic membranes



DOI: 10.33224/rch.2022.67.1-2.04

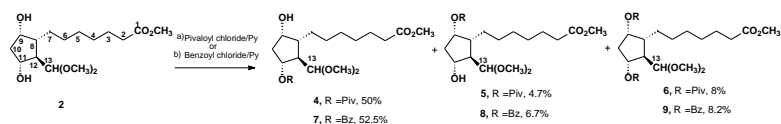
Rev. Roum. Chim., 2022, 67(1-2), 63-70

**Key words:** solid-state, Nasicon, ceramic membrane.

**Constantin I. TĂNASE,**  
**Constantin DRĂGHICI, Miron T. Caproiu and**  
**Lucia PINTILIE**

A selective protection between 9- and 11-hydroxyl of a prostaglandin intermediate with  $\alpha$ -chain and dimethyl acetal, for building the  $\omega$ -side chain

DOI: 10.33224/rch.2022.67.1-2.05  
 Rev. Roum. Chim., 2022, 67(1-2), 71-77



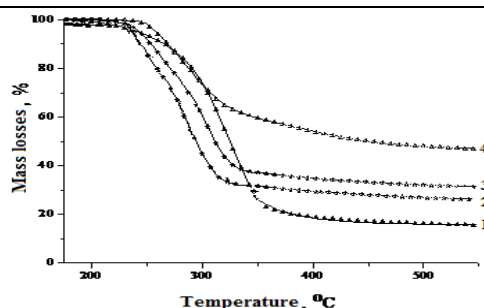
**Key words:** PGF1 intermediates 13-dimethyl acetal, selective esterification, hydrogenation, THP deprotection.

**Mihaela IVANCIA and**  
**Anca Mihaela MOCANU**

New imidazoline derivatives, synthesis, characterization and thermal degradation

DOI: 10.33224/rch.2022.67.1-2.06  
 Rev. Roum. Chim., 2022, 67(1-2), 79-88

**Key words:** imidazoline derivatives, spectral measurements, thermal analysis, degradation mechanism, environmental impact.

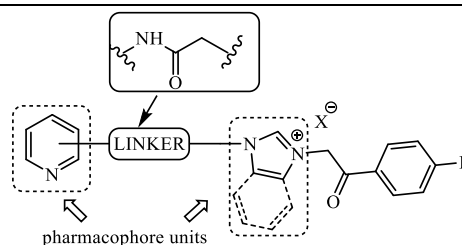


**Dumitrela DIACONU,**  
**Dorina AMĂRIUCĂI-MANTU,**  
**Vasilichia ANTOCI, Roxana CIORTEANU,**  
**Violeta MANGALAGIU,**  
**Ionel I. MANGALAGIU**

Design and synthesis of new hybrid pyridine-imidazolium/benzimidazolium salts with antibacterial activity

DOI: 10.33224/rch.2022.67.1-2.07  
 Rev. Roum. Chim., 2022, 67(1-2), 89-92

**Key words:** hybrid salts, pyridine moiety, imidazole/benzimidazole scaffolds, antibacterial activity.

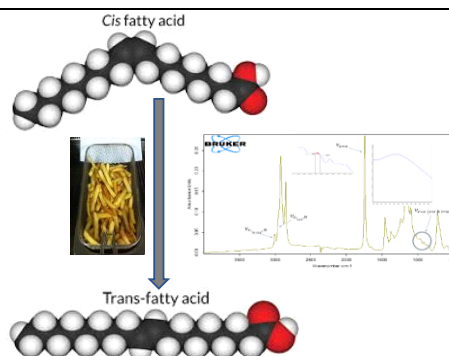


**Fulvia – Ancuța MANOLACHE,**  
**Teodora - Alexandra IORDACHE,**  
**Nastasia BELC and Maria-Cristina TODAȘCĂ**

Influence of edible oil variety on trans fatty acids formation during the frying process

DOI: 10.33224/rch.2022.67.1-2.08  
 Rev. Roum. Chim., 2022, 67(1-2), 93-99

**Key words:** edible oils, trans fatty acids, acidity value.

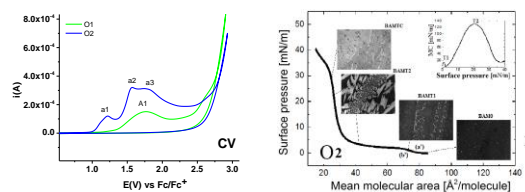


**Catalina NEGUT, Katarzyna MAKYLA-JUZAK, Oana-Iulia ENACHE and Eleonora-Mihaela UNGUREANU**

Selected potential anti-obesity N-acylethanolamides

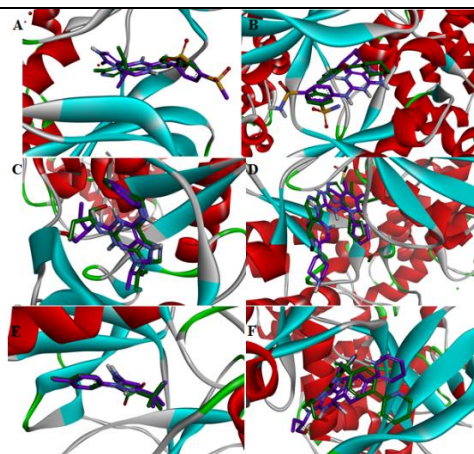
DOI: 10.33224/rch.2022.67.1-2.09  
 Rev. Roum. Chim., 2022, 67(1-2), 101-109

**Key words:** oleoylethanolamide, N-[2-(4-methoxyphenyl)ethyl]oleamide, electrochemical properties, film formation, surface pressure, electric surface potential.



**Teodor Octavian NICOLESCU,**  
**Magdalena MITITELU, Ana Corina IONIȚĂ,**  
**Lucian ISCRULESCU, Dragoș Paul MIHAI,**  
**Gabriela STANCIU, Amalia ȘTEFANIU,**  
**Mihaela DINU and Florica NICOLESCU**

Synthesis, spectral characterization and molecular docking study of new 2,6-pyrimidindione derivatives with potential biological action



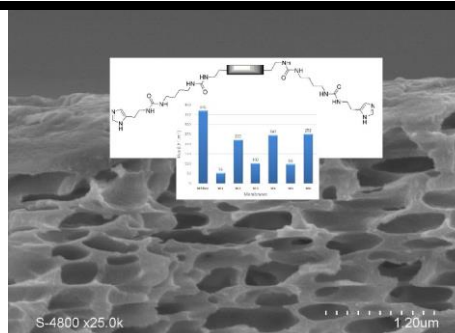
DOI: 10.33224/rrch.2022.67.1-2.10  
*Rev. Roum. Chim.*, **2022**, 67(1-2), 111-123

**Key words:** synthesis, characterization, molecule docking, 2,6-pyrimidinedione, cyclin-dependent kinase.

#### NOTE

**Youssef MOUACHA, Mustapha ALLALI,**  
**Mounir El HEZZAT, Nouzaha HABBADI and**  
**Mihail BARBOIU**

Artificial water channels in supramolecular polymeric membranes, exhibiting high water permeability



DOI: 10.33224/rrch.2022.67.1-2.11  
*Rev. Roum. Chim.*, **2022**, 67(1-2), 125-131

**Key words:** artificial water channels, membranes, self-organization, water purification.

