

# REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

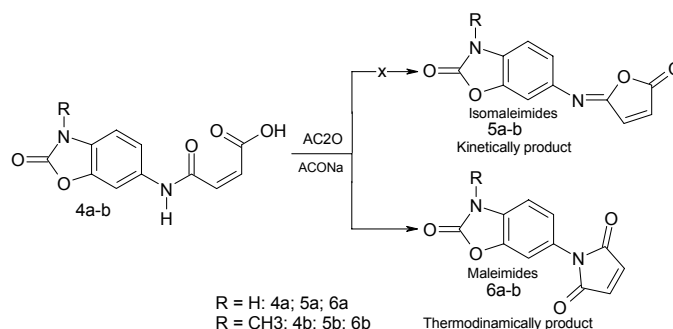
Tome 60, N° 9

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## PAPERS

Wassila YAHIA, Abdelmalek KHORIEF  
NACEREDDINE, Khemissi SEDDIKI and  
Messaoud LIACHA

Experimental and theoretical investigation of the  
intramolecular cyclisation of  
*N*-(benzoxazolone-6-yl)maleimide derivatives

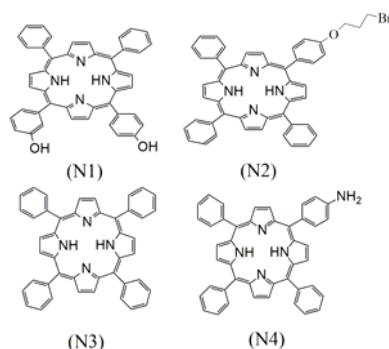


**Key words:** 2(3*H*)-benzoxazolone, maleimide, cyclisation, DFT calculations, antibacterial.

*Rev. Roum. Chim.*, 2015, 60(9), 853-859

Muhammad NAVEED UMAR, Haroon UR  
RASHID, Mian GUL SAYED, Nasiara KARIM,  
Rukhsana GHAFAR,  
Marco ANTONIO UTRERA MARTINES and  
Mohammad SHOAIB

Synthesis and evaluation of analgesic,  
anti-inflammatory and anti-bacterial activity  
of synthesis porphyrin derivatives

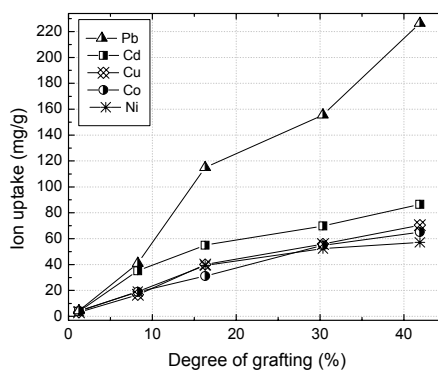


**Key words:** porphyrin, analgesic activity, analgesic, anti-inflammatory.

*Rev. Roum. Chim.*, 2015, 60(9), 861-866

Zaki AJJI

Grafting of polyethylene films with *N*-vinyl  
imidazole and acrylic acid for potential use in  
wastewater treatment

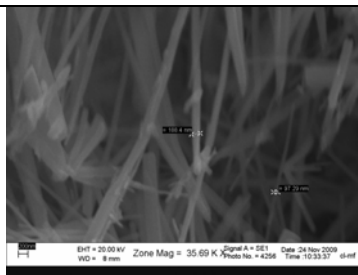


*Rev. Roum. Chim.*, 2015, 60(9), 867-873

**Key words:** acrylic acid, *N*-vinyl imidazole, polyethylene, radiation grafting.

**Ali Reza KIASAT, Mohammad JAVAHERIAN,  
Mina DAEI and Mansoor FARBOD**

ZnO nanotube as reusable catalyst in the efficient and selective oximation reaction of carbonyl groups under solvent free conditions

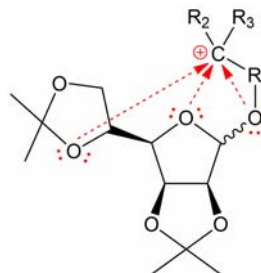


*Rev. Roum. Chim.*, 2015, 60(9), 875-880

**Key words:** ZnO nanotube, protection, oximation, solvent free.

**Mihai-Cosmin PASCARIU,  
Ioana-Ramona CIOPĂNOIU,  
Carmen-Manuela MITAR,  
Mircea MRACEC and Eugen ȘIȘU**

Exploring the possibility of anchimeric assistance in alkyl sugar cations by computational methods

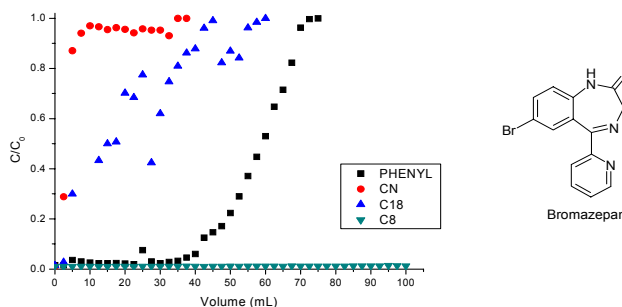


*Rev. Roum. Chim.*, 2015, 60(9), 881-889

**Key words:** anchimeric assistance, intramolecular cyclization, carbenium ion, glycoderivative, RM1 semi-empirical method.

**Elena BACALUM, Mihaela CHEREGI and  
Victor DAVID**

Retention behaviour of some benzodiazepines in solid-phase extraction using modified silica adsorbents having various hydrophobicities

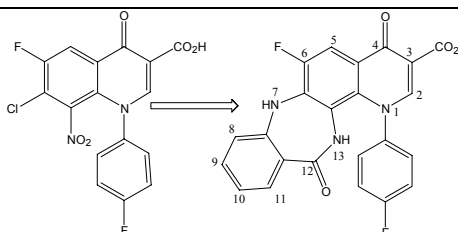


*Rev. Roum. Chim.*, 2015, 60(9), 891-898

**Key words:** solid-phase extraction, retention, benzodiazepines, octadecylsilica, octylsilica, phenylsilica, cyanopropylsilica.

**Yusuf M. AL-HIARI, Ashok K. SHAKYA,  
Wafa J. AL-RAJAB, Emad A. ABDEL RAHIM,  
Muhammed H. ALZWEIRI, Lubna RUSTAM  
and Rula DARWISH**

Antimicrobial screening of novel N-4-fluorophenylquino-[7,8-b][1,4]-benzodiazepin-3-carboxylic acid derivatives

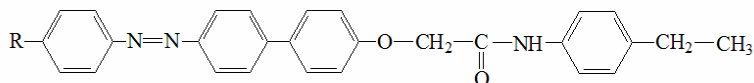


*Rev. Roum. Chim.*, 2015, 60(9), 899-905

**Key words:** quino-[7,8-b][1,4]-benzodiazepine-3-carboxylic acid, fluoroquinoline-3-carboxylic acid, antibacterial, antifungal.

**Gabriela RĂU,  
Anca-Mihaela (BULEARCĂ) STOIAN,  
George Dan MOGOȘANU, Liviu CHIRIGIU  
and Denisa-Constantina AMZOIU**

4-(p-ethyl-N-phenylacetamidoxy)-4'-[p-phenylazo] biphenyls with liquid crystals properties

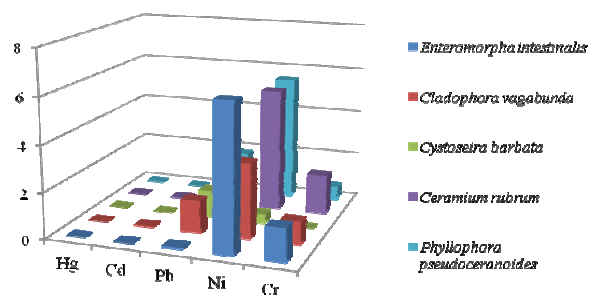


*Rev. Roum. Chim.*, 2015, 60(9), 907-914

**Key words:** 4-(p-ethyl-N-phenylacetamidoxy)-4'-[p-phenylazo] biphenyl, nematic, smectic.

**Adriana TRIFAN, Iuliana Gabriela BREABĂN,  
Daciana SAVA, Laura BUCUR,  
Claudia-Crina TOMA and Anca MIRON**

Heavy metal content in macroalgae from  
Roumanian Black Sea

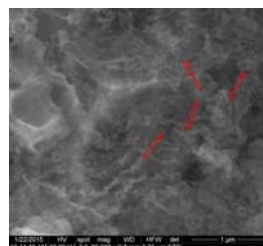


*Rev. Roum. Chim.*, 2015, 60(9), 915-820

**Key words:** algae, heavy metals, biomonitor, Black Sea.

**Diana-Irinel BĂILĂ, Oana-Cătălina MOCIOIU,  
Cătălin ZAHARIA, Roxana TRUȘCĂ,  
Adrian SURDU and Mihaela BUNEA**

Bioactivity of Co-Cr alloy samples sintered by  
DMLS process and coated with hydroxyapatite  
obtained by sol-gel method



*Rev. Roum. Chim.*, 2015, 60(9), 921-930

**Key words:** DMLS process, implant, bioactivity, simulated biological fluid – SBF, hydroxyapatite.

