

# REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

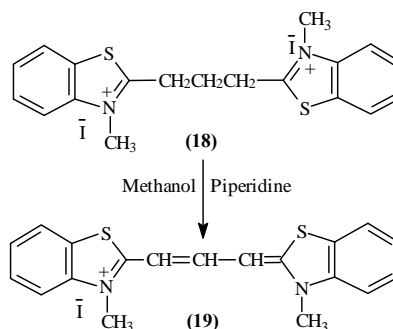
Tome 60, N° 1

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## REVIEW

Hassan Abazied SHINDY

Synthesis of different classes of benz(naphth)/ five membered heterocyclic cyanine dyes



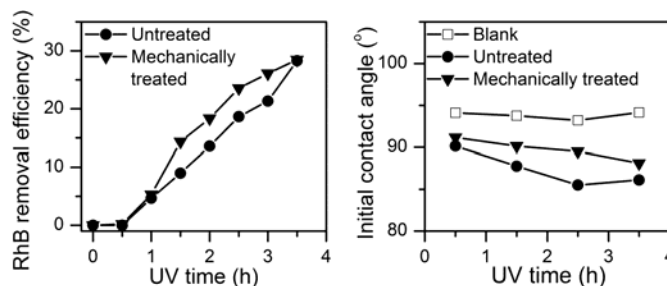
**Key words:** cyanine dyes, synthesis, five membered cyanine dyes, methine cyanine dyes, hemi cyanine dyes, aza-cyanine dyes, mero cyanine dyes, bridged cyanine dyes, squarylium cyanine dyes.

*Rev. Roum. Chim.*, 2015, 60(1), 5-13

## PAPERS

Tatjana VULIC, Ognjen RUDIC,  
Jonjaua RANOJAJEC and  
Milica VUCINIC-VASIC

Photocatalytic activity of TiO<sub>2</sub>/ZnAl LDH based coating in relation to mechanical treatment of the powder



**Key words:** mechanical activation, photo-induced hydrophilicity, layered double hydroxides, rhodamine B removal efficiency, coating durability testing.

*Rev. Roum. Chim.*, 2015, 60(1), 15-23

Cristina STOIAN, Sandu PERETZ and  
Gheorghe ZGHEREA

Nature and stability of liquid-liquid colloidal systems containing safflower oil

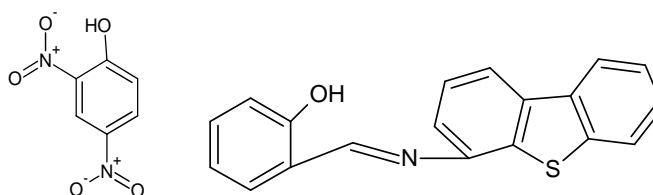


*Rev. Roum. Chim.*, 2015, 60(1), 25-32

**Key words:** safflower oil, vesicle, liposome, stability.

**El-Sayed H. EL-MOSSALAMY,**  
**Mervette El BATOUTI,**  
**Ahmed A. AL-OWAIS and**  
**Nouf F. AL HARBI**

Charge-transfer complex of some thiophene Schiff base compounds with nitrobenzene acceptors

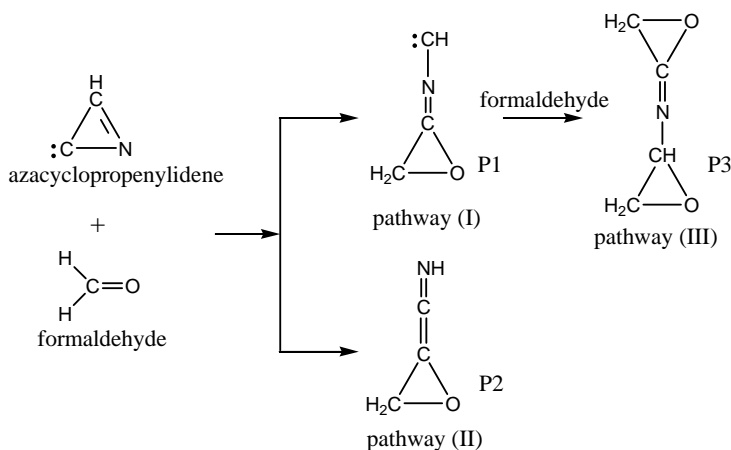


*Rev. Roum. Chim.*, 2015, 60(1), 33-49

**Key words:** CTC, electronic absorption, thiophene Schiff-base, acceptor, proton migration.

**Nana WANG, Xiaojun TAN, Yi HOU,**  
**Jianzhi WANG and Quanbin WANG**

Theoretical insights into the cycloaddition reaction mechanism between azacyclopropenylidene and formaldehyde

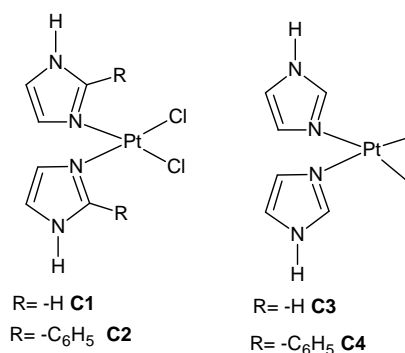


*Rev. Roum. Chim.*, 2015, 60(1), 51-57

**Key words:** azacyclopropenylidene, molecular orbital, reaction mechanism, MP2 method.

**Çağla BOĞATARKAN, Semra UTKU and**  
**Leyla AÇIK**

Synthesis, characterization and pBR322 plasmid DNA interaction of platinum(II) complexes with imidazole and 2-phenylimidazole as carrier ligands

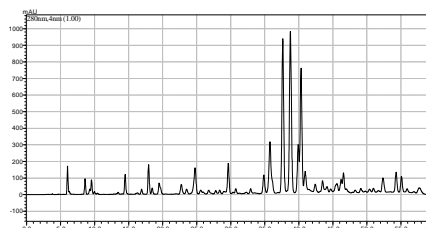


*Rev. Roum. Chim.*, 2015, 60(1), 59-64

**Key words:** platinum complexes, imidazole, DNA binding, gel electrophoresis.

**Florentina GATEA, Alina O. MATEI,**  
**Eugenia Dumitra TEODOR and**  
**Gabriel L. RADU**

Antioxidant properties and polyphenols composition of some Roumanian propolis samples

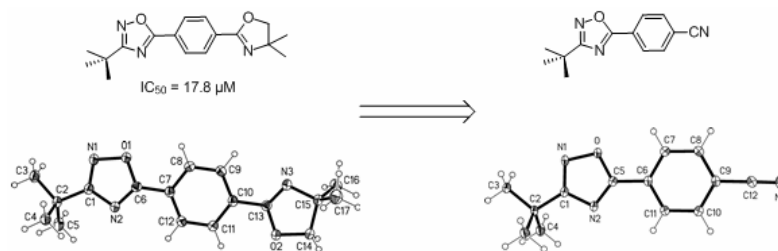


*Rev. Roum. Chim.*, 2015, 60(1), 65-74

**Key words:** Roumanian propolis, antioxidant activity, polyphenols, HPLC-DAD.

Catalin V. MAFTEI, Elena FODOR,  
 Peter G. JONES, Constantin G. DANILIUC,  
 M. Heiko FRANZ, Gerhard KELTER,  
 Heinz H. FIEBIG, Matthias TAMM and  
 Ion NEDA

Novel bioactive 1,2,4-oxadiazole natural product  
 analogs. Synthesis, structural analysis and potential  
 antitumor activity

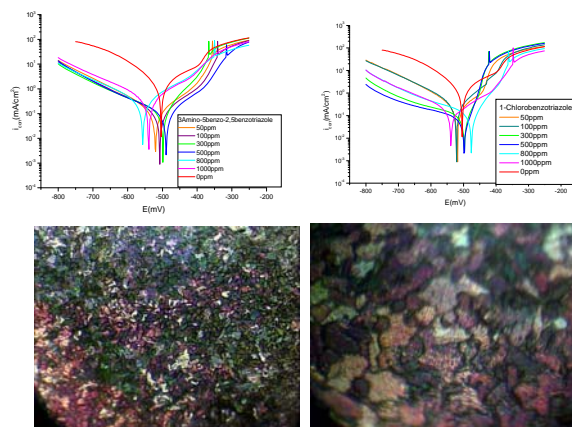


**Key words:** 1,2,4-oxadiazoles, 2-oxazoline; natural product analogues,  
 anti-tumor activity, bioisosteres.

*Rev. Roum. Chim.*, 2015, 60(1), 75-83

Florina BRANZOI and Viorel BRANZOI

Corrosion inhibition of carbon steel by using some  
 benzotriazole derivatives in 0.5M H<sub>2</sub>SO<sub>4</sub> medium



**Key words:** organic inhibitor, carbon steel, potentiodynamic polarization,  
 electrochemical impedance spectroscopy, FT-IR.

*Rev. Roum. Chim.*, 2015, 60(1), 85-96

39<sup>th</sup> ARA Congress

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