

# REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

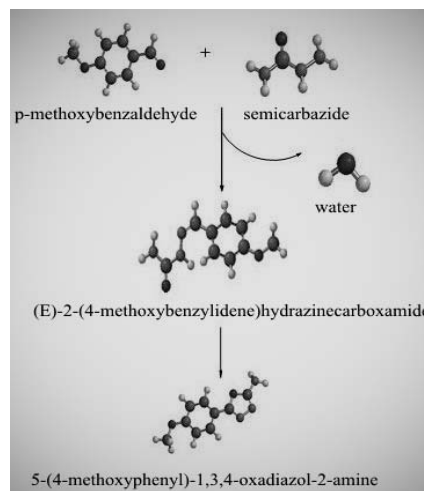
Tome 62, N° 1

Janvier 2017

## PAPERS

**Abdulfatai Adabara SIAKA, Adamu UZAIRU,  
Sulaiman Ola IDRIS and Hamza ABBAH**

Mechanism of (E)-2-(4-methoxybenzylidene)hydrazinecarboxamide cyclization: density functional theory approach

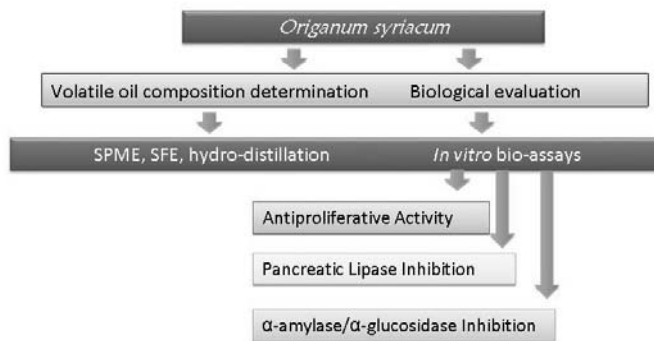


Rev. Roum. Chim., 2017, 62(1), 5-14

**Key words:** semicarbazide, kinetic, semi-empirical and transition state.

**Fatma U. AFIFI, Violet KASABRI,  
Sagrario BELTRAN, Areej ABUHAMMAD,  
Ismail F. ABAZA, Orlando GANADO and  
Ahmad H. Al-GABBIESH**

Comparison of different methods in determination of essential oil composition of *Origanum syriacum*. from Jordan and its modulation of pancreatic enzymes

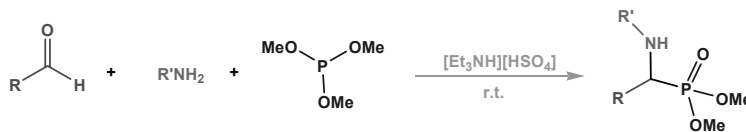


Rev. Roum. Chim., 2017, 62(1), 15-21

**Key words:** *Origanum syriacum* L., SPME, SFE, hydro-distillation, pancreatic enzymes, colorectal cancer.

**Zahed KARIMI-JABERI, Ladan BAZYAR and  
Mohammad AMIRI**

Synthesis of  $\alpha$ -aminophosphonates in the presence of triethylammonium hydrogen sulfate  $[\text{Et}_3\text{NH}][\text{HSO}_4]$  as a highly efficient ionic liquid catalyst

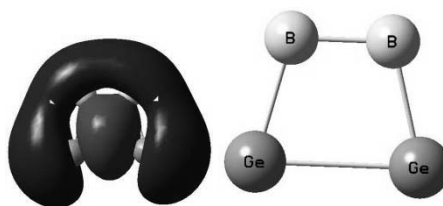


Rev. Roum. Chim., 2017, 62(1), 23-26

**Key words:**  $\alpha$ -aminophosphonates, ionic liquid, aldehydes, trimethyl phosphite.

**Run-Ning ZHAO**

Geometries, stabilities and electronic properties of  $\text{Ge}_2\text{B}_2$  cluster: a density functional study

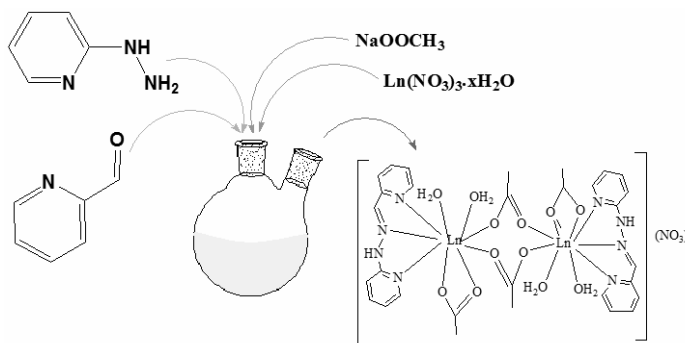


**Key words:**  $\text{Ge}_2\text{B}_2$  clusters;  $\pi$ - $\pi$  interactions; electronic properties; the density functional method.

*Rev. Roum. Chim.*, 2017, 62(1), 27-34

**Mbossé NDIAYE GUEYE, Moussa DIENG, Ibrahima Elhadji THIAM, Mouhamadou Moustapha SOW, Rokhaya GUEYE SYLLA, Aliou Hamady BARRY, Mohamed GAYE and Pascal RETAILLEAU**

Synthesis, characterization and antioxidant activity of lanthanide (III) complexes with tridentate Schiff base ligand. X-ray crystal structure of the Ce(III) complex

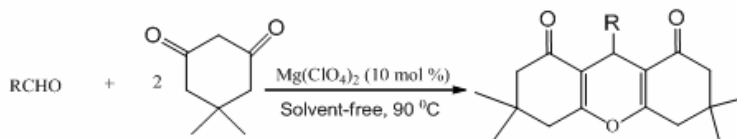


*Rev. Roum. Chim.*, 2017, 62(1), 35-41

**Key words:** hydrazino, lanthanide, complex, antioxidant, X-ray.

**Hamideh EMTIAZI and Mohammad A. AMROLLAHI**

$\text{Mg}(\text{ClO}_4)_2$  catalyzed preparation of xanthenediones in solvent-free conditions

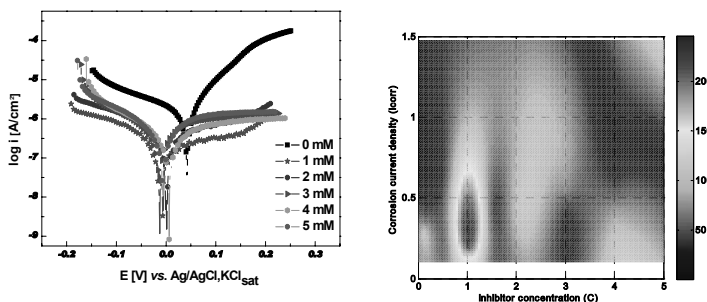


**Key words:** xanthenediones, magnesium perchlorate, 5,5-dimethyl-1,3-cyclohexanedione, solvent-free.

*Rev. Roum. Chim.*, 2017, 62(1), 43-47

**Julieta D. CHELARU, Călin I. ANGHEL, Maria GAVRILAOE and Liana M. MUREȘAN**

Electrochemical and meta-modelling analysis of the inhibiting effect exerted by sulfuric acid diamide on bronze corrosion

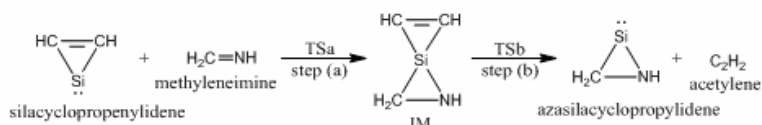


**Key words:** bronze corrosion, corrosion inhibitors, polarization curves, support vector machine, minimax approach.

*Rev. Roum. Chim.*, 2017, 62(1), 49-56

**Wenxing HE and Xiaojun TAN**

Theoretical study on the reaction mechanism between silacyclopropenylidene and methyleneimine



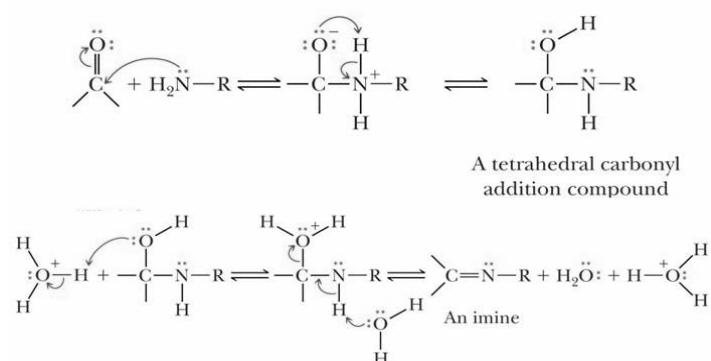
**Key words:** silylene, silacyclopropenylidene, methyleneimine, reaction mechanism.

*Rev. Roum. Chim.*, 2017, 62(1), 57-63

---

**Sunnapu PRASAD and Krishnamoorthy SUSILA**

An overview on Schiff bases and its medicinal chemistry potential for new antitubercular drug molecules research



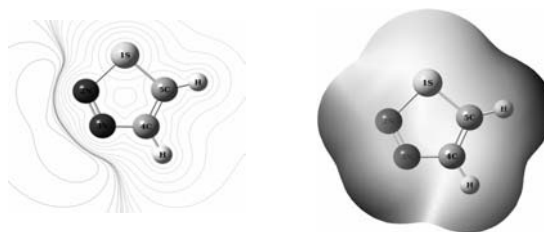
**Key words:** Schiff bases, tuberculosis, multi drug resistance, extreme drug resistance, anti-tubercular activity.

*Rev. Roum. Chim.*, 2017, 62(1), 65-79

---

**Oualid OUKIL, Noureddine TCHOUAR, Salah BELAIDI, Toufik SALAH and Mehmet CINAR**

Structural investigation, drug likeness scoring and structure activity/property relationships applied on 1,2,3-thiadiazole derivatives, with kinase inhibitors activity



*Rev. Roum. Chim.*, 2017, 62(1), 81-92

**Key words:** 1,2,3-thiadiazole, kinas inhibitors, MPO, SAR/SPR,

---

**BOOK REVIEW**


---

**Andreea Irina BARZIC and Silvia IOAN**

Multiphase polymer systems: micro- to nanostructural evolution in advanced technologies

*Rev. Roum. Chim.*, 2017, 62(1), 93

---

