

# REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

Tome 62, N<sup>os</sup> 6-7

Juin-Juillet 2017

The 3<sup>rd</sup> International Conference on Analytical Chemistry

Rev. Roum. Chim., 2017, 62(6-7), 461-462

Wolfgang BUCHBERGER and Slavica RAZIC

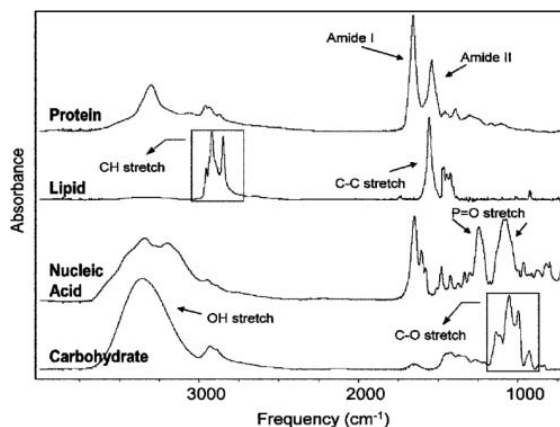
European Analytical Column Number 45

Rev. Roum. Chim., 2017, 62(6-7), 463-464

## PAPERS

Andrei A. BUNACIU,  
Oana Mihaela ANTOCHI (BALTAG),  
Șerban FLESCHEAN, Vu Dang HOANG and  
Hassan Y. ABOUL-ENEIN

Vibrational spectroscopy in body fluids analysis

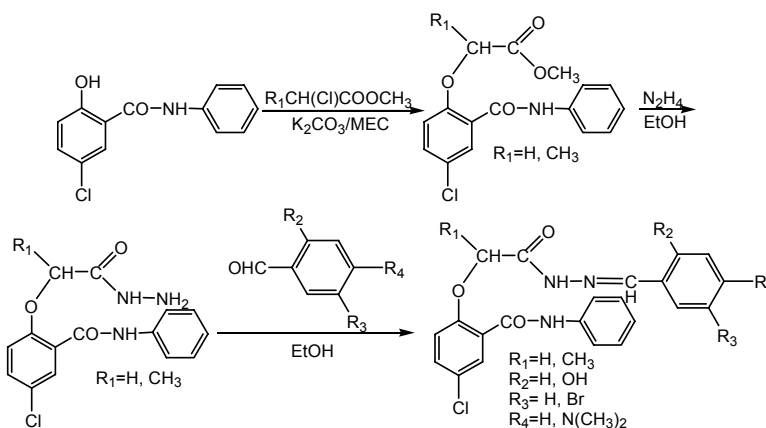


Rev. Roum. Chim., 2017, 62(6-7), 465-474

**Key words:** body fluids analysis, FTIR spectroscopy, raman spectroscopy.

Ioana M.C. IENĂȘCU,  
Raluca O. POP, Adina CĂȚA,  
Mariana N. ȘTEFĂNUȚ and  
Iuliana M. POPESCU

Synthesis and characterization of some new  
5-chloro-2-hydroxy-N-phenylbenzamide  
derivatives

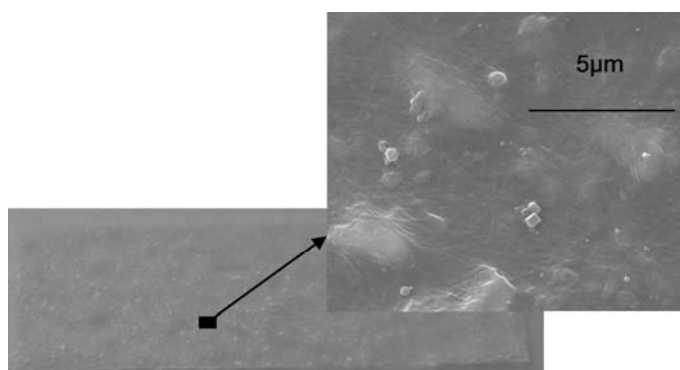


Rev. Roum. Chim., 2017, 62(6-7), 475-479

**Key words:** 5-chloro-salicylanilide derivatives, methyl esters, hydrazides, hydrazones, potential biologically active compounds.

Mariana N. ȘTEFĂNUȚ,  
Adina CĂȚA, Dan ROȘU,  
Marius MILEA and  
Ioana M.C. IENAȘCU

Nano-hydroxyapatite composites for dental use

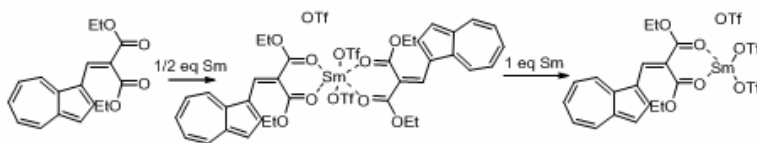


**Key words:** collagen, hydroxyapatite, transmission microscopy, scanning microscopy, XRD pattern.

*Rev. Roum. Chim.*, 2017, 62(6-7), 481-487

Liviu BIRZAN, Mihaela CRISTEA,  
Victorita TECUCEANU,  
Eleonora-Mihaela UNGUREANU and  
Alexandru C. RAZUS

Syntheses of ligands based on azulene derivatives used as metals sensors

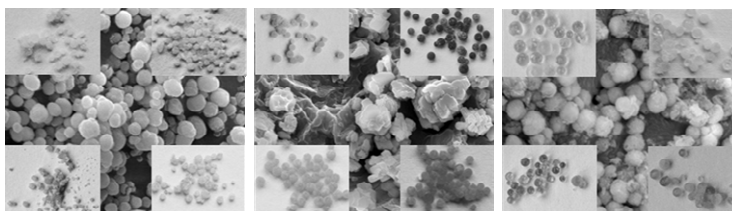


**Key words:** metals sensors; azulene; Knoevenagel condensation; redox potentials.

*Rev. Roum. Chim.*, 2017, 62(6-7), 489-497

Marcela MIHAI, Florica DOROFTEI,  
Ana-Lavinia VASILIU and Ion BUNIA

CaCO<sub>3</sub>/ion exchanger composites as sorbents for dyes

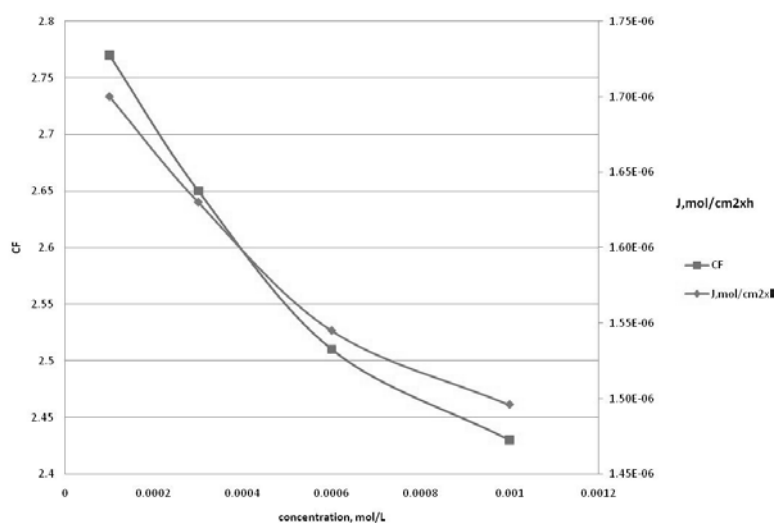


**Key words:** composite microparticles, CaCO<sub>3</sub>, sorbents, dyes, ion exchanger.

*Rev. Roum. Chim.*, 2017, 62(6-7), 499-504

Ecaterina Anca ȘERBAN,  
Ioana DIACONU, Elena RUSE,  
Eugenia EFTIMIE TOTU and  
Gheorghe NECHIFOR

Studies on the transport of indole-3-acetic acid through bulk liquid membranes

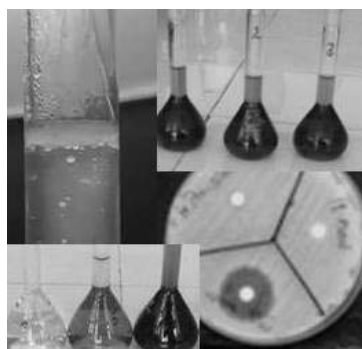


**Key words:** indole 3-acetic acid, bulk liquid membrane, bulk liquid membrane transport, tributyl phosphate.

*Rev. Roum. Chim.*, 2017, 62(6-7), 505-509

**Ioana Adina OANCEA,**  
**Elena OANCEA,**  
**Eleonora-Mihaela UNGUREANU,**  
**Gabriela STANCIU and Elisabeta CHIRILA**

Analytical characterisation of some buds of etheric oils used in cosmetics

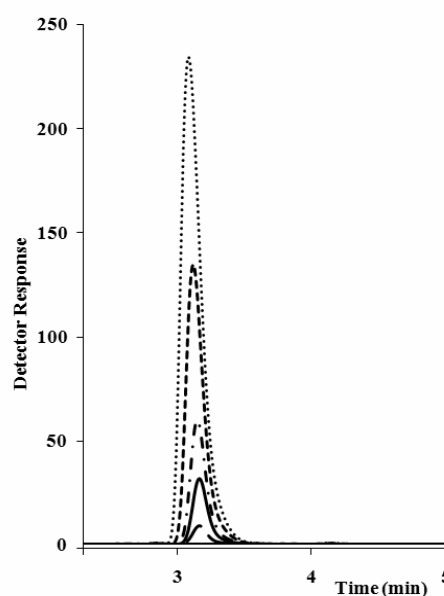


**Key words:** bud etheric oils, Folin Ciocâlțeu, DPPH, methicillin resistant *Staphylococcus aureus* (MRSA), acne, cosmetics.

*Rev. Roum. Chim.*, 2017, 62(6-7), 511-516

**Sevinc KURBANOGLU, Ozgur ESIM,<sup>b</sup>**  
**Cansel Kose OZKAN, Ayhan SAVASER,**  
**Yalçın OZKAN and**  
**Sibel A. OZKAN**

Determination of dihydroergotamine *via* LC method coupled with fluorescence detection in pharmaceutical film preparations

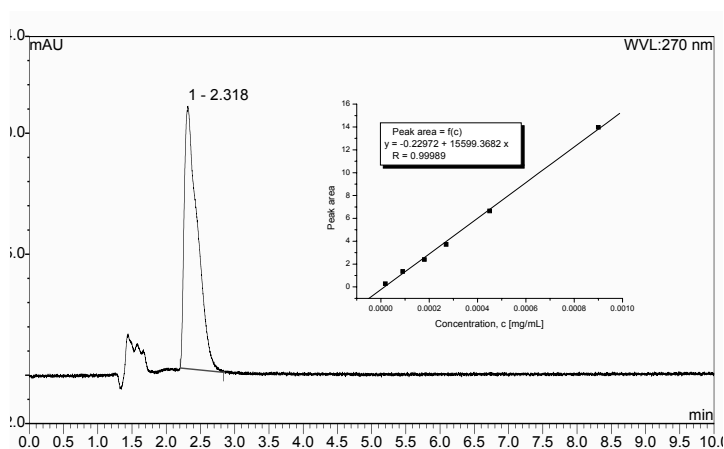


**Key words:** chromatography, determination, dihydroergotamine maleate, fluorescence.

*Rev. Roum. Chim.*, 2017, 62(6-7), 517-523

**Mariana N. STEFĂNUȚ, Marius DOBRESCU,**  
**Cristian VASZILCSIN, Adina CĂTA and**  
**Ioana M.C. IENAȘCU**

Comparative methods for monitoring of imidacloprid residues in maize and wheat cultivated in Banat County

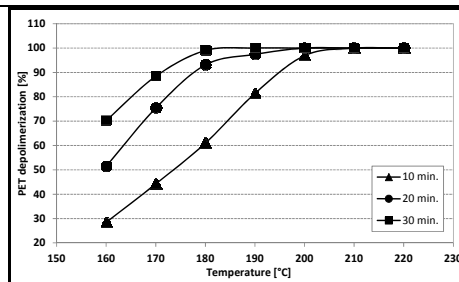


**Key words:** imidacloprid, gas-chromatography GC-MS, high performance liquid chromatography HPLC-PAD, cyclic voltammetry.

*Rev. Roum. Chim.*, 2017, 62(6-7), 525-530

**Adina CĂTA, Mariana N. ȘTEFĂNUȚ, Ioana M.C. IENAȘCU, Cristian TĂNASIE and Marinela MICLĂU**

Alkaline hydrolysis of polyethylene terephthalate under microwave irradiation

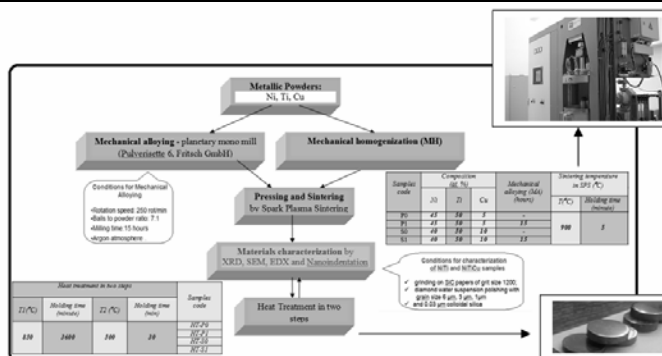


**Key words:** polyethylene terephthalate, microwave, alkaline hydrolysis, terephthalic acid.

*Rev. Roum. Chim.*, 2017, 62(6-7), 531-538

**Cristiana Diana CIRȘTEA, Marcela MIHAI, Vasile CIRȘTEA, Delia PATROI, Haritina CHIVU, Florina RADULESCU, Violeta TSAKIRIS, Otilia CULICOV and Anatol Mihail BALAGUROV**

Phase relations in the NiTiCu shape memory materials used in medicine applications

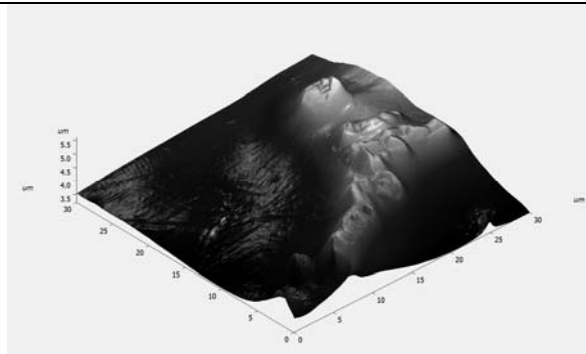


*Rev. Roum. Chim.*, 2017, 62(6-7), 539-544

**Key words:** powder metallurgy, SPS, precipitates.

**Ioana-Raluca SUICA-BUNGHEZ, Sofia TEODORESCU, Ioan-Alin BUCURICA, Raluca SOMOGHI and Rodica-Mariana ION**

Characterization of antioxidant activity and phytochemical compounds, metal nanoparticles obtained by *Sideritis Scardica* extracts

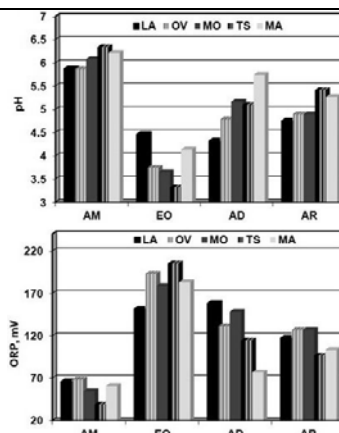


**Key words:** *Sideritis Scardica* plant, metallic nanoparticles, antioxidant activity, phytochemical properties.

*Rev. Roum. Chim.*, 2017, 62(6-7), 545-552

**Gabriela STANCIU, Ioana-Adina OANCEA, Elena OANCEA and Elisabeta CHIRILA**

Evaluation of antioxidant capacity for some wild plant extracts used in cosmetics

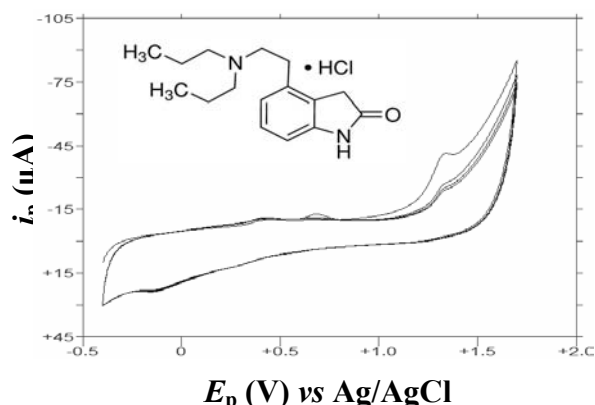


**Key words:** Folin Ciocălteu, DPPH, cosmetics, antioxidant capacity, plant extracts.

*Rev. Roum. Chim.*, 2017, 62(6-7), 553-558

**Burcin BOZAL-PALABIYIK and Bengi USLU**

Voltammetric determination of ropinirole at glassy carbon electrode employing pulsed techniques

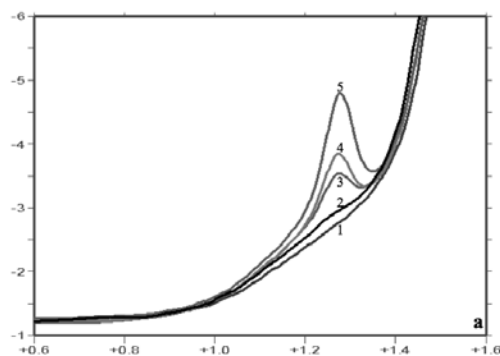


*Rev. Roum. Chim.*, 2017, 62(6-7), 559-567

**Key words:** ropinirole, glassy carbon electrode, voltammetry, drug analysis, validation.

**Goksu OZCELIKAY, Burcu DOGAN-TOPAL and Sibel A. OZKAN**

Electrochemical characteristics of Tenofovir and its determination in dosage form by electroanalytical methods

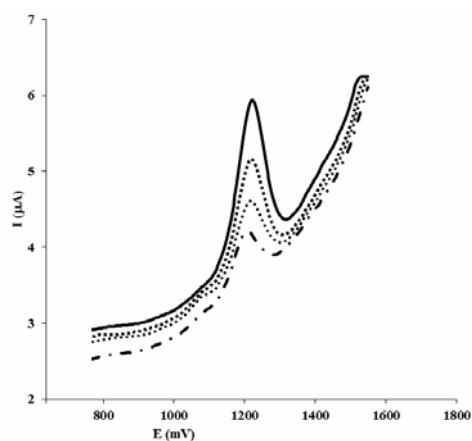


*Rev. Roum. Chim.*, 2017, 62(6-7), 569-578

**Key words:** Tenofovir disoproxil fumarate, electrochemical oxidation, adsorptive stripping voltammetry, determination, pharmaceutical dosage form.

**Leyla KARADURMUS, Sevinc KURBANOGLU, Bengi USLU and Sibel A. OZKAN**

Diferential pulse voltammetric determination of Rosuvastatin *via* glassy carbon electrode



*Rev. Roum. Chim.*, 2017, 62(6-7), 579-586

**Key words:** electrochemistry, voltammetry, rosuvastatin, glassy carbon electrode.

