

# REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

Tome 64, N° 10

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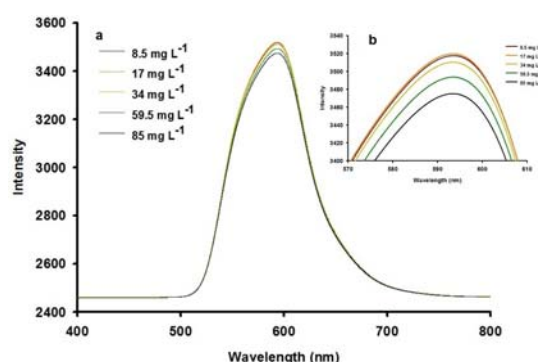
4<sup>th</sup> International Conference on Analytical Chemistry RO'ICAC 2018

DOI: 10.33224/rch.2019.64.10.01  
Rev. Roum. Chim., 2019, 64(10), 839

## PAPERS

**Catalina CIOATES NEGUT,**  
**Jacobus Frederick VAN STADEN and**  
**Georgiana-Luiza ARNOLD TATU**

Fluorimetric determination of nitrate in water catchments using a fluorescence tracer dye

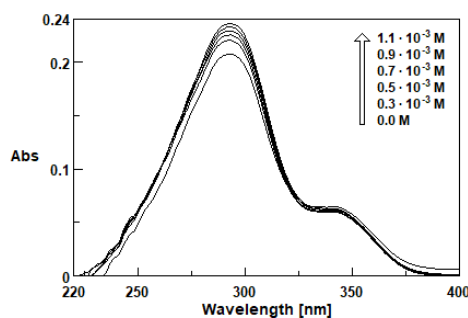


DOI: 10.33224/rch.2019.64.10.02  
Rev. Roum. Chim., 2019, 64(10), 841-847

**Key words:** fluorimetric method, Rhodamine B, nitrate.

**Ioana M. C. IENAȘCU,**  
**Mariana N. ȘTEFĂNUȚ,**  
**Mihai-Cosmin PASCARIU,**  
**Iuliana M. POPESCU, Adina CĂTA and**  
**Raluca POP**

Complexation of [2-(2-bromophenylcarbamoyl)phenoxy]acetic acid ethyl ester with  $\beta$ -cyclodextrin

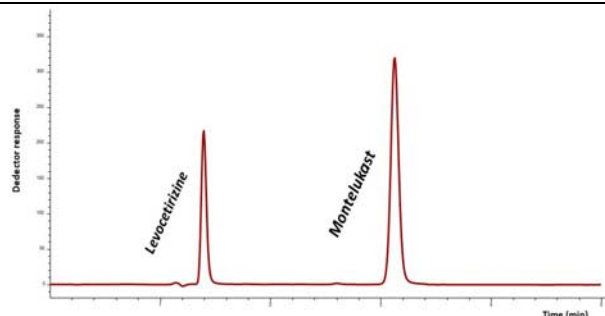


DOI: 10.33224/rch.2019.64.10.03  
Rev. Roum. Chim., 2019, 64(10), 849-857

**Key words:** ethyl ester/ $\beta$ -CYD inclusion complex, molecular modelling, apparent formation constant, Benesi-Hildebrand equation, <sup>1</sup>H-NMR.

**Cem ERKMEN, Selda ZENGİN KURNALI and**  
**Bengi USLU**

Development of reverse phase liquid chromatographic method by using core shell particles column for determination of montelukast and levocetirizine from pharmaceutical capsule dosage forms

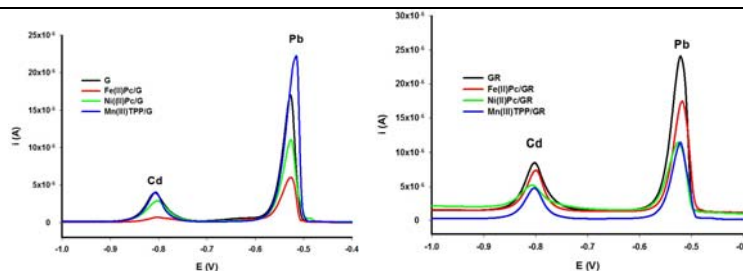


DOI: 10.33224/rch.2019.64.10.04  
Rev. Roum. Chim., 2019, 64(10), 859-866

**Key words:** drug analysis, HPLC, levocetirizine, montelukast, validation.

**Jacobus Frederick VAN STADEN and  
Georgiana-Luiza ARNOLD TATU**

Modified graphite/graphene dot microsensors for the assay of trace amounts of lead and cadmium in water catchments areas using differential pulse anodic stripping voltammetry

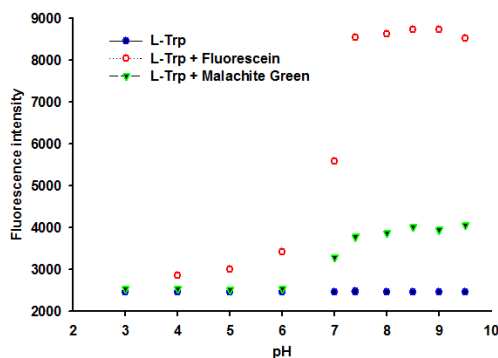


DOI: 10.33224/rch.2019.64.10.05  
*Rev. Roum. Chim.*, 2019, 64(10), 867-877

**Key words:** graphite/graphene dot microsensors, lead, cadmium, water catchments areas.

**Jacobus Frederick VAN STADEN and  
Ramona GEORGESCU STATE**

Determination of tryptophan in pharmaceutical formulations and beer by enhancement of tryptophan-fluorescence response with fluorescein and potassium hexacyanoferrate(III)

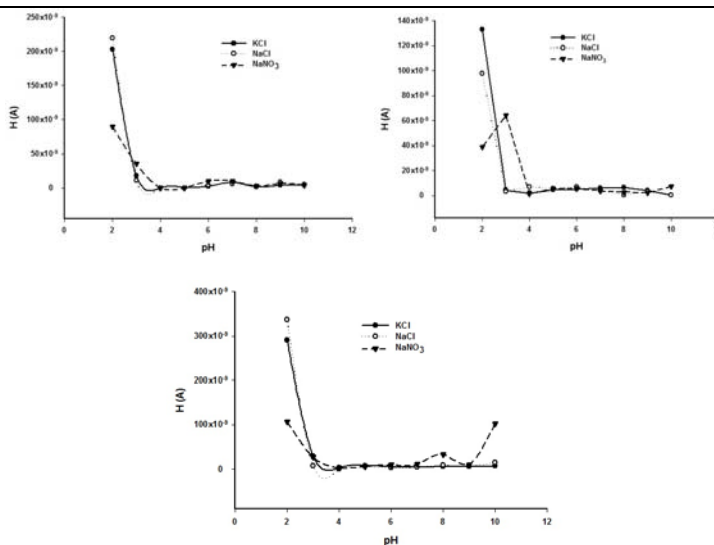


DOI: 10.33224/rch.2019.64.10.06  
*Rev. Roum. Chim.*, 2019, 64(10), 879-886

**Key words:** tryptophan, tryptophan-fluorescence response enhancement, fluorescein, potassium hexacyanoferrate(III).

**Georgiana-Luiza ARNOLD TATU and  
Jacobus Frederick VAN STADEN**

Phtalocyanine modified electrodes based on reduced graphene oxide for determination of lead in different types of water

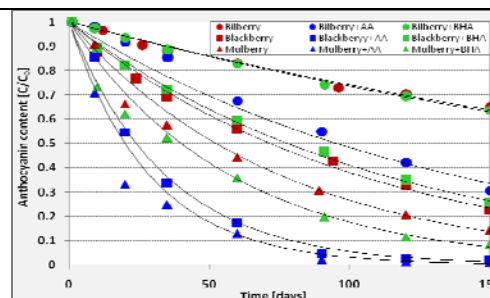


DOI: 10.33224/rch.2019.64.10.07  
*Rev. Roum. Chim.*, 2019, 64(10), 887-892

**Key words:** phtalocyanine, electrode, voltammetry, ICP-OES, sensors.

**Adina CĂȚA, Ioana M. C. IENAȘCU,  
Cristian TĂNASIE and  
Mariana N. ȘTEFĂNUȚ**

Thermal degradation of anthocyanin pigments in bilberry, blackberry and black mulberry extracts in the presence of some added food antioxidants

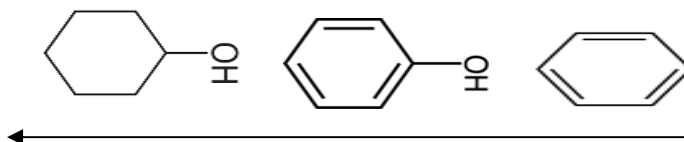


DOI: 10.33224/rch.2019.64.10.08  
*Rev. Roum. Chim.*, 2019, 64(10), 893-899

**Key words:** anthocyanins, stability, thermal degradation, ascorbic acid, antioxidant activity.

Hadi DEBIH, Oualid DILMI and  
Smail TERCHI

Organic pollutants adsorption onto granular  
activated carbon

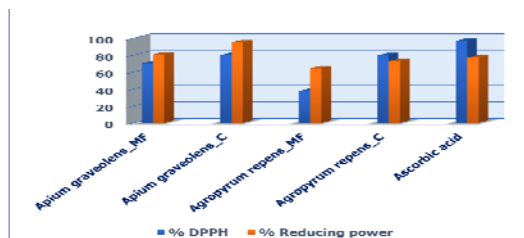


DOI: 10.33224/rch.2019.64.10.09  
*Rev. Roum. Chim.*, 2019, 64(10), 901-907

**Key words:** granulated activated carbon, adsorption kinetics, porosity,  
affinity, competitiveness.

Elena NEAGU, Gabriela PĂUN,  
Veronica MOROEANU, Oana UNGUREANU  
and Gabriel Lucian RADU

Antioxidant and antidiabetic properties of  
polyphenolic-rich extracts of *Apium graveolens* and  
*Agropyrum repens*

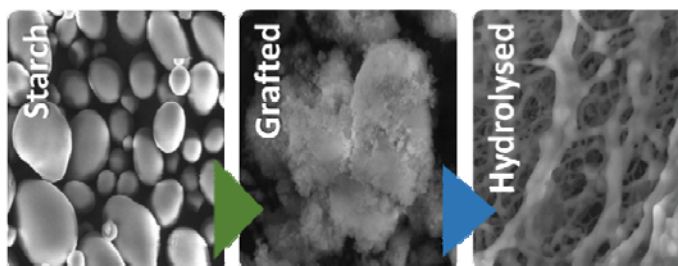


DOI: 10.33224/rch.2019.64.10.10  
*Rev. Roum. Chim.*, 2019, 64(10), 909-913

**Key words:**  $\alpha$ -amylase inhibitory activity,  $\alpha$ -glucosidase inhibitory, *Apium  
graveolens*, *Agropyrum repens*, membranare processes.

Diana Felicia LOGHIN,  
Ecaterina Stela DRĂGAN and  
Marcela MIHAI

Comparative chemical modification of starches as a  
function of their origin: synthesis and analysis



DOI: 10.33224/rch.2019.64.10.11  
*Rev. Roum. Chim.*, 2019, 64(10), 915-921

**Key words:** starch, acrylonitrile, grafting reaction, hydrolyzed copolymers.

