

# ROUMAINE DE CHIMIE (ROMANIAN JOURNAL OF CHEMISTRY)

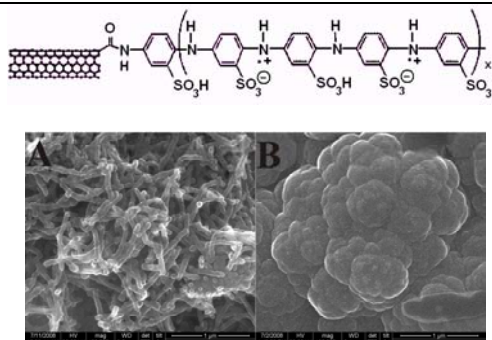
Tome 54, N° 10

Octobre 2009

## PAPERS

**Viorel BRÂNZOI, Luisa PILAN and Florina BRÂNZOI**

Amperometric glucose biosensor based on electropolymerized carbon nanotube/polypyrrole composite film

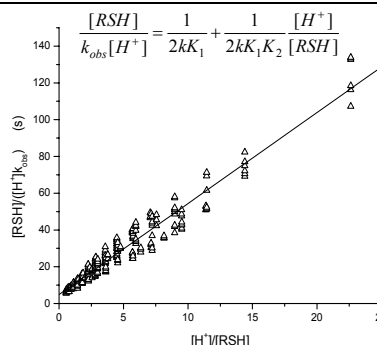


**Key words:** nanocomposite films, polypyrrole, carbon nanotubes, amperometric biosensor, glucose.

*Rev. Roum. Chim.*, 2009, 54(10), 783-789

**Ioan BALDEA, Dana-Maria SABOU and Alexandra CSAVDARI**

Oxidation of 2-mercaptopropionic acid by hexacyanoferrate-(III). Mechanistic interpretation on the basis of one-plus rate equation

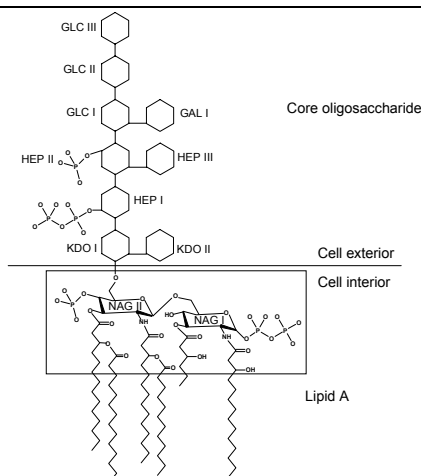


**Key words:** thiol oxidation, hexacyanoferrate-(III), one-plus rate equation.

*Rev. Roum. Chim.*, 2009, 54(10), 791-798

**Alexandra MORARU, Istvan SVAB and Dan Florin MIHĂILESCU**

Charm force field parameterization of bacterial lipopolysaccharides

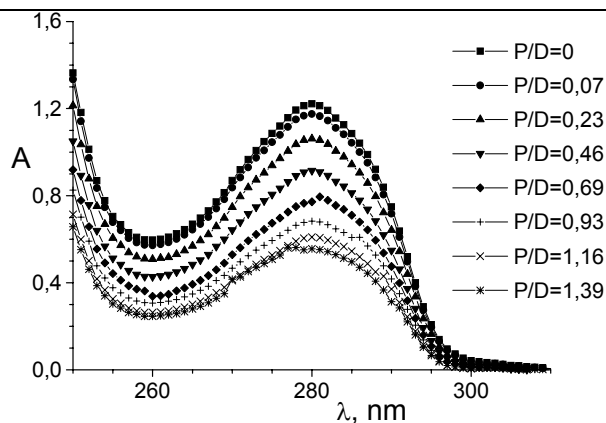


**Key words:** lipopolysaccharide, lipid A, Gram negative, outer membrane, molecular model.

*Rev. Roum. Chim.*, 2009, 54(10), 799-805

**Loredana Elena VIJAN**

The interaction of vancomycin with DNA

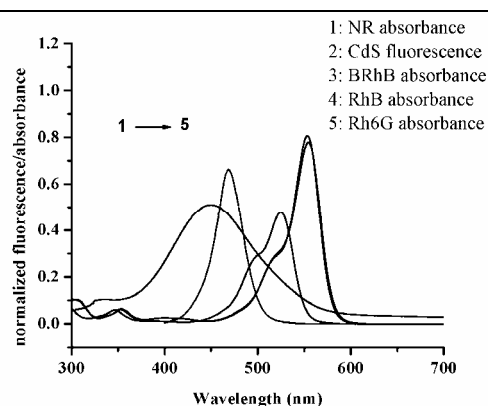


*Rev. Roum. Chim.*, 2009, 54(10), 807-813

**Key words:** vancomycin, calf thymus DNA, UV-Vis absorption spectroscopy.

**Shoujun LAI, Xijun CHANG, Sui WANG, Jie MAO and Lei TIAN**

Studies on the interaction between CdS quantum dots and organic dyes: absorption and fluorescence spectroscopy

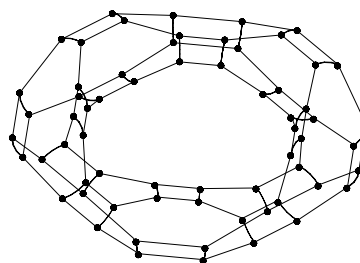


*Rev. Roum. Chim.*, 2009, 54(10), 815-822

**Key words:** quantum dots, organic dyes, reaction mechanism, spectrum.

**Ali Reza ASHRAFI, Farhad REZAEI and Amir LOGHMAN**

PI index of the  $C_4C_8(S)$ -nanotorus

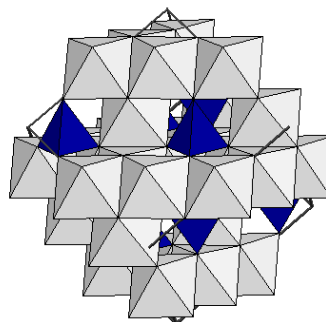


*Rev. Roum. Chim.*, 2009, 54(10), 823-826

**Key words:** PI index,  $C_4C_8(S)$  nanotorus.

**Romana DRAȘOVEAN and Simona CONDURACHE BOTA**

Influence of the conditions of the thermal treatment on the electrical properties of cobalt oxide layers

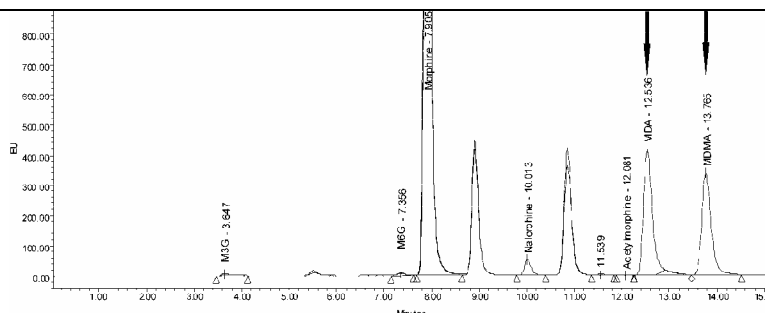


*Rev. Roum. Chim.*, 2009, 54(10), 827-831

**Key words:** electrical properties, thin films, conductivity, thermal treatment.

**Béla KISS, Daniela-Saveta POPA,  
Marius BOJIȚĂ, Felicia LOGHIN**

Development and validation of a HPLC-DAD/FLD method for the determination of MDMA, MDA, methamphetamine, morphine, morphine-glucuronides and 6-monoacetylmorphine in human plasma

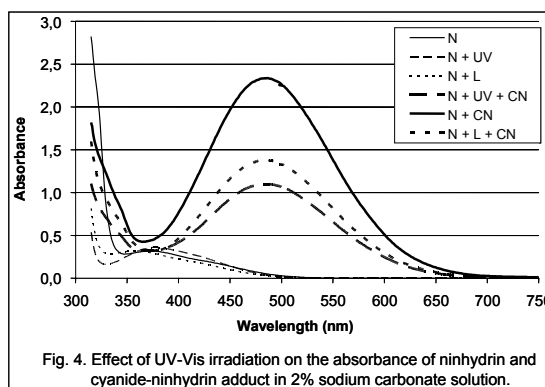


*Rev. Roum. Chim.*, 2009, 54(10), 833-840

**Key words:** heroin, morphine, metabolites, amphetamines, chromatography.

**Ioan Marius MIHAESCU and  
Gabi DROCHIOIU**

Cyanide reaction with ninhydrin: the effect of pH changes and UV-VIS radiation upon the analytical results



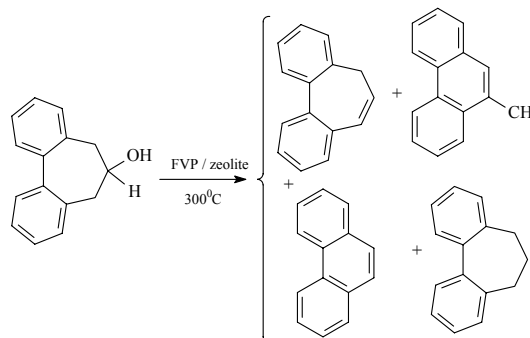
*Rev. Roum. Chim.*, 2009, 54(10), 841-845

**Key words:** cyanide determination; pH effect; UV-Vis effect; ninhydrin reaction.

## NOTE

**Daniela ISTRATI, Luminitza PĂRVULESCU,  
Angela POPESCU, Dan MIHĂIESCU,  
Elena ANDREI and Florin BADEA**

Flow-vacuum pyrolysis of dibenzocycloheptane annelated derivative on zeolites catalysts



*Rev. Roum. Chim.*, 2009, 54(10), 847-850

**Key words:** flow-vacuum pyrolysis, zeolite catalyst, dibenzocycloheptane derivatives.

