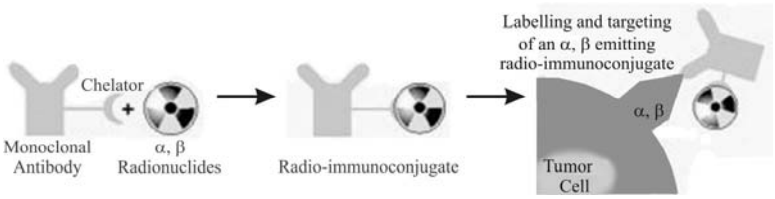
REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

Tome 57, N° 1 **Janvier 2012**

REVIEW

Adina Elena STANCIU

Radionuclides in targeted therapy of cancer



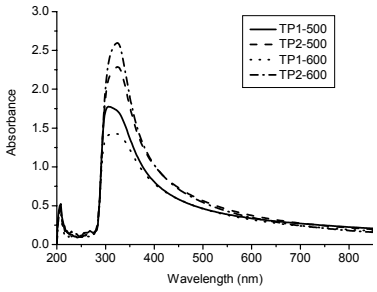
Rev. Roum. Chim., **2012**, *57*(1), 5-13

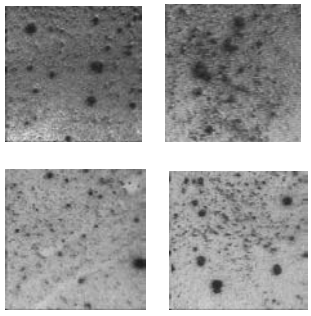
Key words: radionuclide, radiopharmaceutic product, targeted radionuclide therapy, cancer therapy.

PAPERS

Marcela-Corina ROŞU, Ramona-Crina SUCIU, Simina-Virginia DREVE, Teofil-Dănuț SILIPAŞ, Ioan BRATU and Emil INDREA

The influence of PEG/PPG and of the annealing temperature on TiO_2-based layers properties



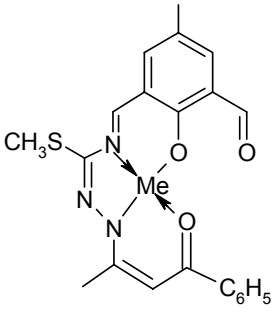


Rev. Roum. Chim., **2012**, *57*(1), 15-21

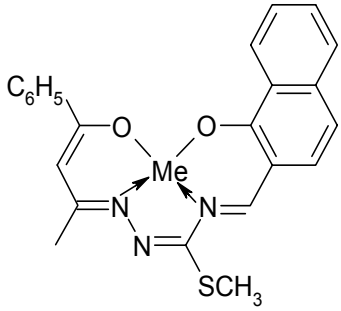
Key words: nanocrystalline TiO_2, photocatalyst, polyethylene glycol, polypropylene glycol.

Maria COCU, Alexandra CILOCI, Jana TIURINA, Svetlana LABLIUC, Steliana CLAPCO, Maria STRATAN, Jiulieta GRADINARU and Ion BULHAC

The influence of nickel(II) and copper(II) coordination compounds based on benzoylacetone S-methylisothiosemicarbazone on enzymatic activity of micromycete *Aspergillus niger* CNMN FD 10



Me= Ni (NiL[1])
Me= Cu (CuL[1])



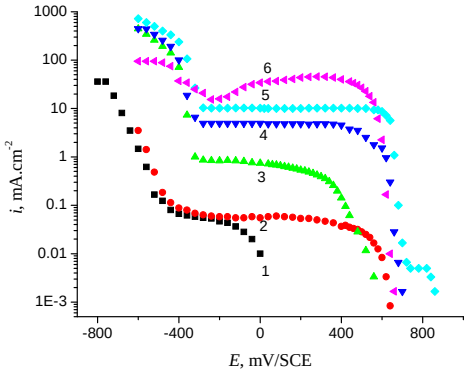
Me= Ni (NiL[2])
Me= Cu (CuL[2])

Rev. Roum. Chim., **2012,** *57*(1), 23-27

Key words: metal complexes, nickel(II), copper(II), cellulosolytic activity, micromycete.

Gabriela Elena BADEA, Cornel ANTAL, Marcel ROŞCA and Aurel SETEL

Autocatalytic reduction of Cr(VI) on platinum electrode in acid solution

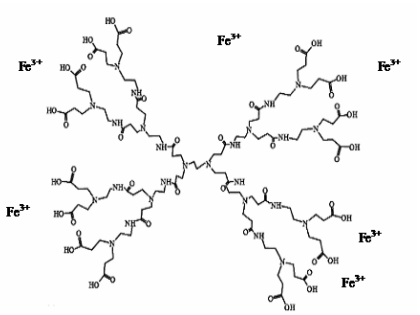


Rev. Roum. Chim., **2012**, *57*(1), 000-000

Key words: chromate, sulphuric acid solutions, platinum, reduction, mechanism.

Laura-Madalina POPESCU, Roxana Mioara PITICESCU, Giovanni DONI and Andrea DANANI

Interfacial interactions of Fe^{3+} with PAMAM dendrimer in different pressure conditions. Molecular dynamics

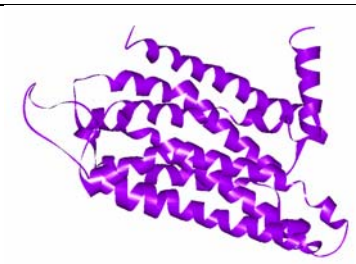


Rev. Roum. Chim., **2012**, *57*(1), 000-000

Key words: PAMAM dendrimer, Fe^{3+}-PAMAM interactions, molecular dynamics, radial distribution function.

Daniela MARGAN, Ana BOROTA, Maria MRACEC and Mircea MRACEC

3D homology model of the human prostaglandin E2 receptor EP4 subtype

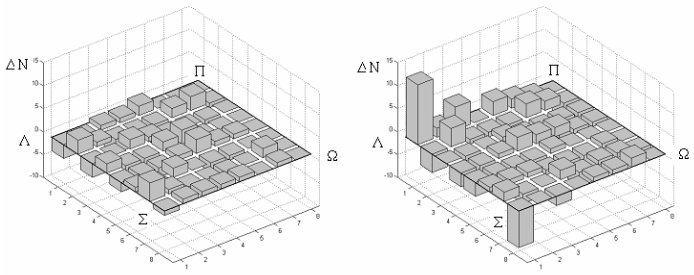


Rev. Roum. Chim., **2012**, *57*(1), 000-000

Key words: GPCR, 3D homology model, PE2R4, EP4, adenosine receptor A2a template.

Cristina STAN, Constantin P. CRISTESCU and Dana Andreea NEACSU

Using chaos game representation for similarity studies on albumin amino acids sequences

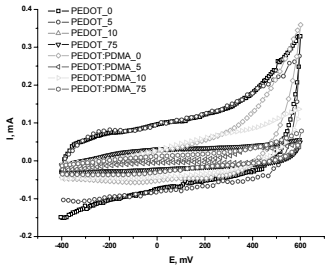


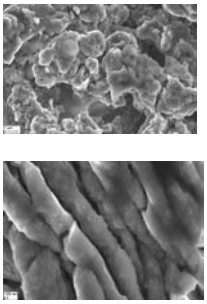
Rev. Roum. Chim., **2012**, *57*(1), 000-000

Key words: chaos game representation, protein sequences, albumin.

Florina BRÂNZOI, Viorel BRÂNZOI, Alina PRUNĂ

Characterization of electrochemical properties of poly(3,4-ethylene dioxythiophene) – poly(N,N-dimethyl aniline) and copolymer



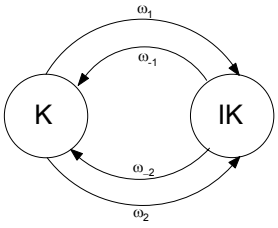


Key words: poly(3,4-ethylene dioxythiophene), poly(N,N-dimethyl aniline), copolymerization, cyclic voltammetry, dopant, cyclic voltammetry, scanning electron microscopy (SEM).

Rev. Roum. Chim., **2012**, *57*(1), 49-55

Eugen SEGAL

Kinetic graphs as a useful tool for the kinetic description of catalytic and chain reactions

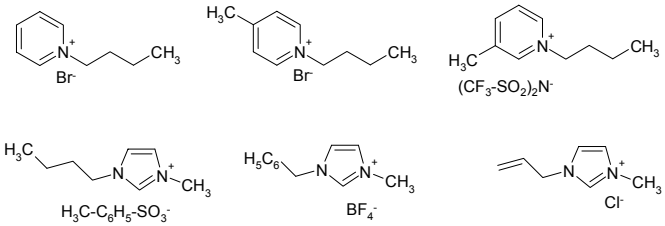


Key words: complex reaction mechanisms, kinetic graphs, steady state approximation.

Rev. Roum. Chim., **2012**, *57*(1), 57-60

Medeea RADULESCU, Emilia-Elena IORGULESCU, Constantin MIHAILCIUC and Victor DAVID

Comparative study of the retention of pyridinium and imidazolium based ionic liquids on octadecylsilica stationary phase under ion pairing mechanism with alkylsulphonate anions



Key words: ionic liquids, ion pairing, liquid chromatography, octadecylsilica, alkylsulphonate.

Rev. Roum. Chim., **2012**, *57*(1), 61-67

The 3rd Regional Symposium on Electrochemistry: South-East Europe

Rev. Roum. Chim., **2012**, *57*(1), 69-70

Strengthening the Roumanian research capacity in multifunctional polymeric materials (FP7-REGPOT-2010-1-STREAM)

Rev. Roum. Chim., **2012**, *57*(1), 71-72

STRENGTHENING THE ROUMANIAN RESEARCH CAPACITY IN MULTIFUNCTIONAL POLYMERIC MATERIALS*

(FP7 – REGPOT-2010-1-STREAM)

The "Petru Poni" Institute of Macromolecular Chemistry, an institute of excellence of the Roumanian Academy, is strengthening its research capacity in targeted scientific areas, by adopting an interdisciplinary approach. STREAM project supports the institute activities toward this goal through mobility and knowledge exchange programs with outstanding EU research institutions, participation and organization of scientific events, hiring of experienced researchers, up-grading the research infrastructure and networking with both industry and research organizations from Roumania and abroad.

Targeted research areas:

- Supramolecular/interface chemistry and physical chemistry
- Bio-based polymeric materials, environment protection, energy conservation
- Bio-oriented polymeric materials
- Polymers for high-tech application, nanosized/nanostructured materials

Collaborative partners within STREAM:

- University of Graz, Graz, Austria
- Centre de Mise en Forme des Materiaux, MINES ParisTech – Sophia Antipolis, France
- Institut Européen des Membranes, Montpellier, France
- Laboratoire d'Electrochimie et Physicochimie des Matériaux et des Interfaces, Grenoble, France
- Université d'Evry Val d'Essonne, Evry, France
- InnoChemTech GmbH, Braunschweig, Germany
- Potsdam University, Centre of Innovative Materials for Advanced Technologies, Potsdam, Germany
- T.U.Braunschweig – Institut für Anorganische und Analytische Chemie, Braunschweig, Germany
- Institute of Thin Film and Microsensoric Technology, Teltow, Germany
- Centre of Polymer and Carbon Materials of Polish Academy of Sciences, Zabrze, Poland
- University of Maribor – Laboratory for Characterization and Processing of Polymers, Maribor, Slovenia
- Technological Institute of Construction – Stone processing, Valencia, Spain
- Swiss Federal University of Technology – ETH Institute of Polymers, Zurich, Switzerland

* Web site: www.regpot-stream.ro