

REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

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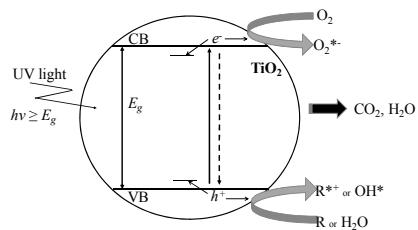
Professor Bogdan C. Simionescu

Rev. Roum. Chim., 2013, 58(2-3), 77-103

PAPERS

Marilena BARTIC, Liviu SACARESCU and Valeria HARABAGIU

Optical and electrical properties of TiO_2 thin films deposited by sol-gel method

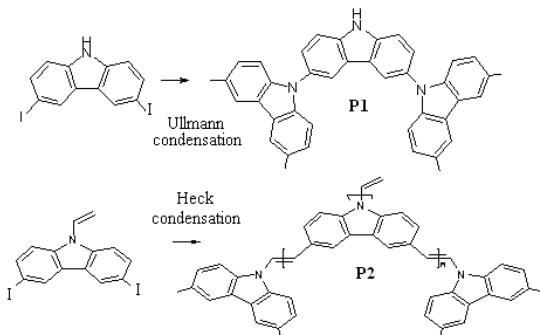


Rev. Roum. Chim., 2013, 58(2-3), 105-111

Key words: TiO_2 , sol-gel, optical properties, electrical properties.

Ana Maria CATARGIU, Teofilia IVAN, Loredana VACAREANU and Mircea GRIGORAS

Synthesis and photophysical properties of two branched carbazole-based polymers

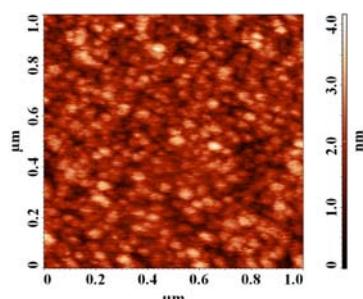


Key words: branched oligomers, self-Ullmann and Heck polycondensation, carbazole derivatives, vinyl carbazole branched oligomers, photophysical properties.

Rev. Roum. Chim., 2013, 58(2-3), 113-119

Maria BRUMA, Mariana-Dana DAMACEANU, Catalin-Paul CONSTANTIN and Nataliya M. BELOMOINA

Study of fluorinated polyimides containing fused aromatic rings

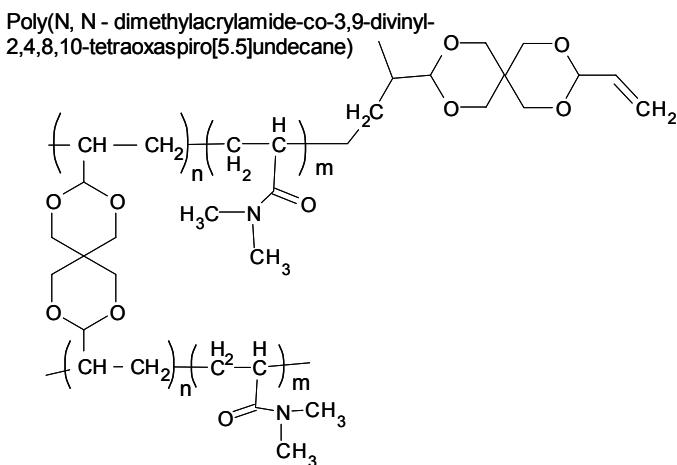


Key words: polyimides, naphthalene, perylene, trifluoromethyl, thin films, blue light emission.

Rev. Roum. Chim., 2013, 58(2-3), 121-127

**Aurica P. CHIRIAC, Manuela T. NISTOR,
Loredana E. NITA and Iordana NEAMTU**

Poly(N,N-dimethylacrylamide-co-3,9-divinyl-2,4,8,10-tetraoxaspiro(5.5)undecane) synthesis as matrix ensuring intramolecular strategies for further coupling applications

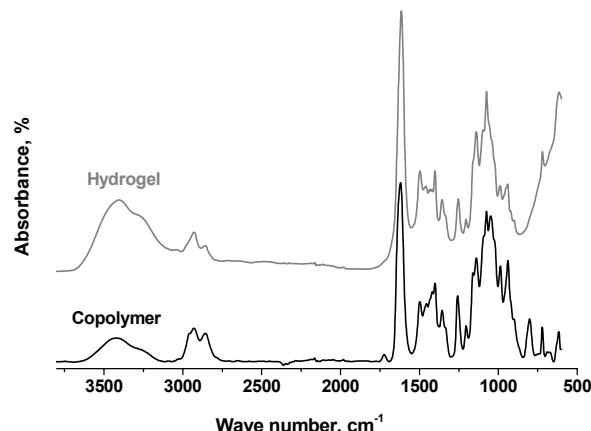


Key words: N, N-dimethylacrylamide; 3, 9-divinyl-2, 4, 8, 10-tetraoxaspiro(5.5)undecane; radical polymerization; smart macromolecular systems.

Rev. Roum. Chim., 2013, 58(2-3), 129-136

**Loredana E. NITA, Aurica P. CHIRIAC,
Manuela T. NISTOR and Iordana NEAMTU**

Hydrogel based on poly(N,N-dimethylacrylamide-co-3,9-divinyl-2,4,8,10-tetraoxaspiro(5.5)undecane) with dual sensitive behavior. Synthesis and characterisation

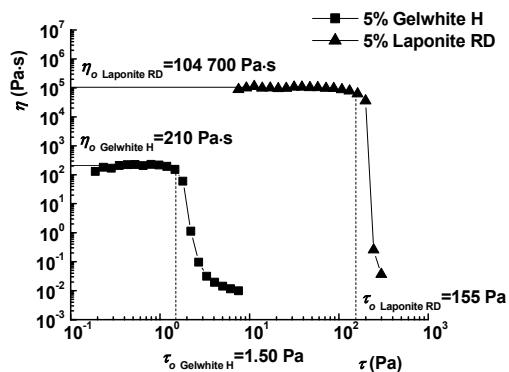


Key words: hydrogel, N, N-dimethylacrylamide; 3, 9-divinyl-2, 4, 8, 10-tetraoxaspiro (5.5) undecane; thermosensitive.

Rev. Roum. Chim., 2013, 58(2-3), 137-143

Simona MORARIU and Maria BERCEA

Thixotropy and yield stress evaluation for clay aqueous dispersions

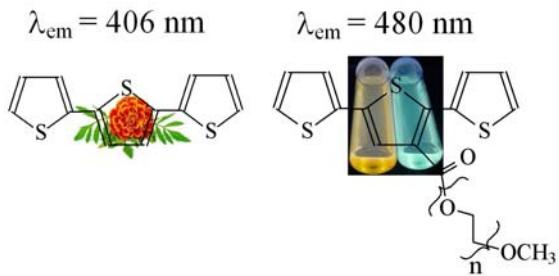


Key words: smectite, viscoelastic properties, thixotropy, yield stress, clay dispersion.

Rev. Roum. Chim., 2013, 58(2-3), 145-152

Anca-Dana BENDREA, Luminita CIANGA and
Ioan CIANGA

Poly(ethylene glycol) – functionalized,
water self-dispersible α -terthiophenes



Rev. Roum. Chim., 2013, 58(2-3), 153-160

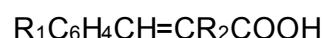
Key words: α -terthiophenes, polyethylene glycol, amphiphilic structures, fluorescent nanoparticles.

Marioara NECHIFOR, Constantin I. CHIRIAC
and Fulga TANASA

Sodium tetraborate/benzyltriethylammonium chloride-mediated synthesis of substituted cinnamic acids from aromatic aldehydes and aliphatic carboxylic acids



sodium tetraborate,
BTEAC

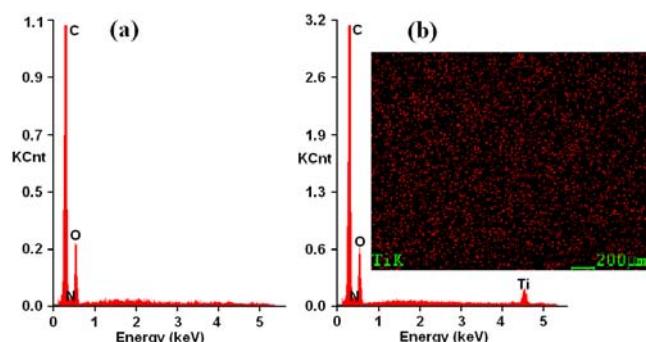


Rev. Roum. Chim., 2013, 58(2-3), 161-164

Key words: cinnamic acid, one-pot synthesis, sodium tetraborate, benzyltriethylammonium chloride.

Violeta MELINTE, Tinca BURUIANĂ and
Emil C. BURUIANĂ

Hybrid polymer composite coatings based on photopolymerizable piperazine derivatives microfilled with TiO_2

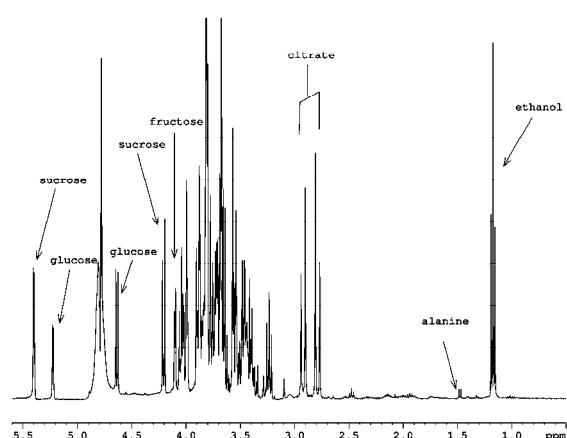


Rev. Roum. Chim., 2013, 58(2-3), 165-173

Key words: piperazine dimethacrylates, photopolymerization, TiO_2 microparticles/polymer composites, properties.

Mihaela BALAN, Alina NICOLESCU,
Cristina STAVARACHE, Mihaela CIOBANU
and Calin DELEANU

Fast NMR juice identification based on sugars and
other plant metabolites from fruits

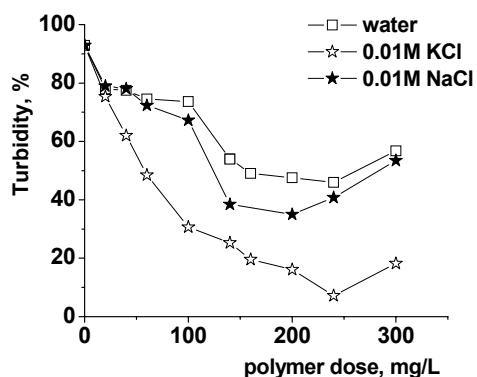


Rev. Roum. Chim., 2013, 58(2-3), 175-182

Key words: sugars, metabolites, fruits, NMR spectroscopy.

**Cristina-Eliza BRUNCHI and
Luminita GHIMICI**

PEG in aqueous salt solutions. Viscosity and separation ability in a TiO₂ suspension

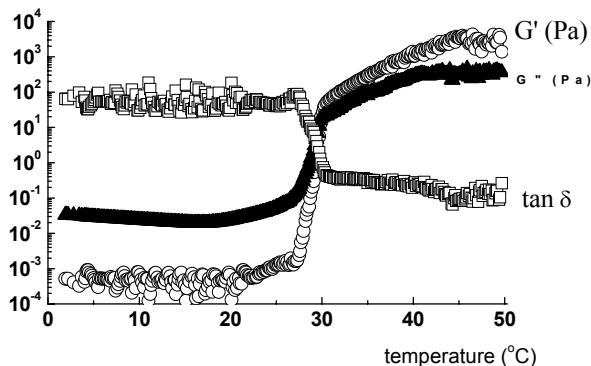


Rev. Roum. Chim., 2013, 58(2-3), 183-188

Key words: viscosity, separation, poly(ethylene glycol), titanium dioxide.

**Maria BERCEA, Raluca Nicoleta DARIE and
Simona MORARIU**

Rheological investigation of xanthan/pluronic F127 hydrogels

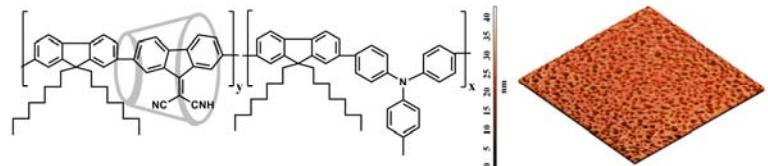


Rev. Roum. Chim., 2012, 57(4-5), 189-196

Key words: hydrogels, xanthan, Pluronic F127, viscoelasticity, yield stress.

**Andreea STEFANACHE, Iuliana STOICA,
Ana-Maria RESMARITA and Aurica FARCAS**

Some photophysical and morphological properties of polyrotaxane based on fluorene derivatives

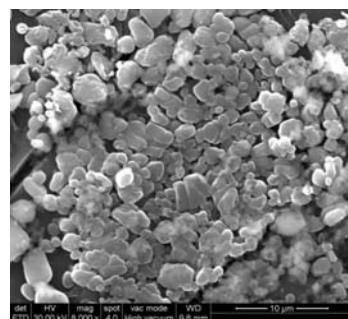


Key words: Host-Guest Complexes, polyfluorenes, random copolymers, blue-emission, roughness.

Rev. Roum. Chim., 2013, 58(2-3), 197-202

**Mioara DROBOTA, Magdalena AFLORI,
Iuliana STOICA and Florica DOROFTEI**

Surface characterization of amine functionalized PET films after collagen immobilization

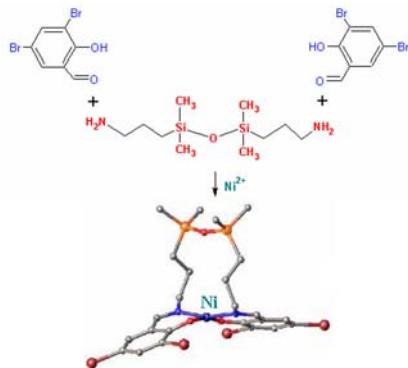


Rev. Roum. Chim., 2013, 58(2-3), 203-207

Key words: PET, plasma, aminolysis, collagen immobilization.

**Alina SOROCEANU, Maria CAZACU,
Alexandra NISTOR and Sergiu SHOVA**

Ni(II) and Zn(II) complexes with a salen-type ligand derived from 1,3-bis (3-aminopropyl)tetramethylsiloxane

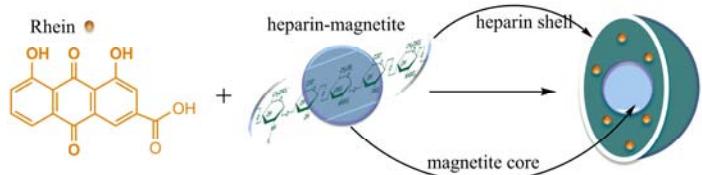


Rev. Roum. Chim., 2013, 58(2-3), 209-216

Key words: salen, metal complex, siloxane, X-ray single crystal diffraction.

**Anamaria DURDUREANU-ANGHELUTA,
Simona BACAITA, Viviana RADU,
Maricel AGOP, Leonard IGNAT,
Cristina Mariana URITU,
Stelian Sergiu MAIER and
Mariana PINTEALA**

Mathematical modelling of the release profile of anthraquinone-derived drugs encapsulated on magnetite nanoparticles

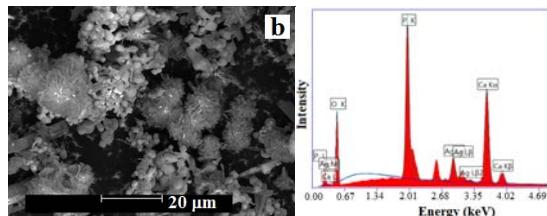


Rev. Roum. Chim., 2012, 57(4-5), 217-221

Key words: magnetite particles, rhein, heparin, fractal dimension, Weibull law.

**Gabriela CIOBANU, Simona ILISEI and
Constantin LUCA**

Ag-loaded hydroxyapatite coatings on polyurethane surfaces by biomimetic deposition

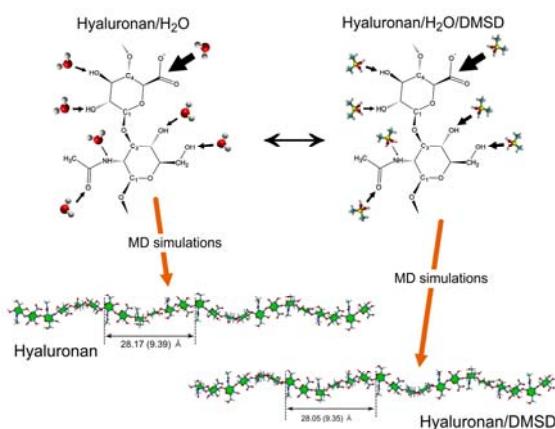


Rev. Roum. Chim., 2013, 58(2-3), 223-227

Key words: polyurethane scaffold, hydroxyapatite, silver, coatings.

Daniela IVANOV and Andrei NEAMTU

Molecular dynamics evaluation of hyaluronan interactions with dimethylsilanediol in aqueous solution

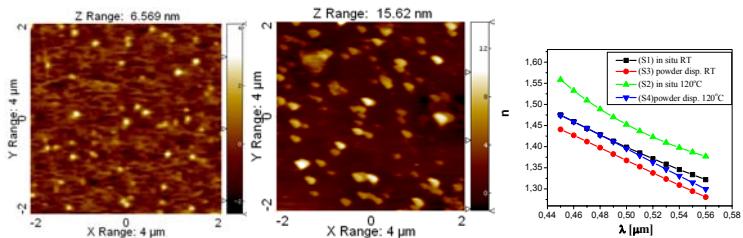


Rev. Roum. Chim., 2013, 58(2-3), 229-238

Key words: molecular dynamics simulations, sodium hyaluronate, hydrogen bonds, aqueous solution, dimethylsilanol.

**Luminita PREDOANA, Mariuca GARTNER,
Valentin Serban TEODORESCU,
Madalina NICOLESCU,
Mihai ANASTASESCU and
Maria ZAHARESCU**

Sol-gel hybrid nanocomposites with oxide nanoparticles



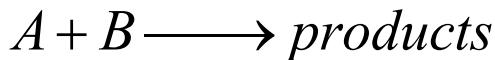
Rev. Roum. Chim., 2013, 58(2-3), 239-249

Key words: sol-gel, hybrid films, spectroellipsometry, oxide nanoparticles embedment.

Niculae I. IONESCU

Role of time scales in heterogeneous catalytic oscillatory reactions

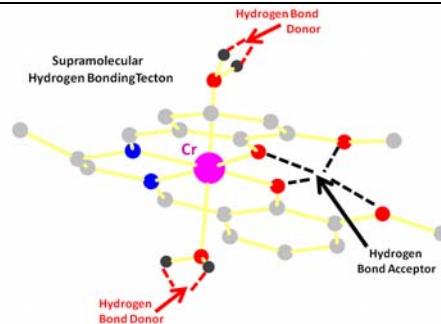
Rev. Roum. Chim., 2013, 58(2-3), 251-254



Key words: oscillations, different time scales.

**Vlad IUCHA, Ruxandra GHEORGHE,
Augustin M. MADALAN and Marius ANDRUH**

Supramolecular homometallic Cr(III) systems resulting from second coordination sphere interactions

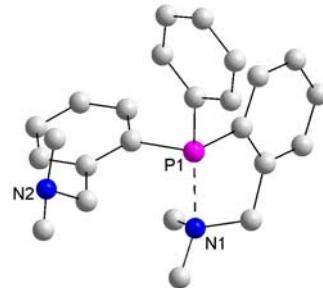


Rev. Roum. Chim., 2013, 58(2-3), 255-263

Key words: chromium(III) complexes, crystal structures, hydrogen-bonded assemblies, bicompartimental Schiff-base ligands.

**Raluca MITEA, Ancuta COVACI,
Cristian SILVESTRU and Anca SILVESTRU**

Cobalt(II) complexes with hypervalent triarylphosphanes

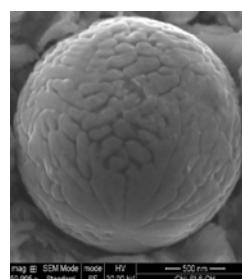


Rev. Roum. Chim., 2013, 58(2-3), 265-273

Key words: hypervalent triarylphosphanes, cobalt(II) complexes, spectroscopy, crystal and molecular structure.

**Sandu PERETZ, Manuela FLOREA-SPIROIU,
Dan F. ANGHEL, Cristina STOIAN and
Gheorghe ZGHEREA**

Chitosan microparticulate systems prepared by polymer-surfactant interaction

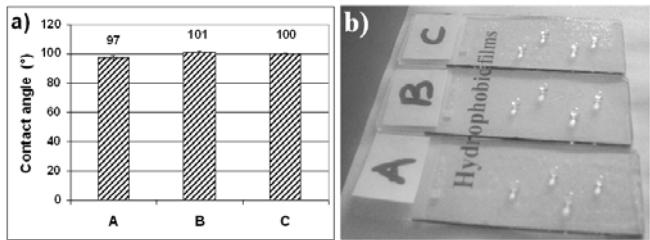


Rev. Roum. Chim., 2013, 58(2-3), 275-281

Key words: chitosan, microparticulate system, polymer, surfactant.

Violeta PURCAR, Simona CAPRARESCU,
Catalin Ilie SPATARU, Marius GHIUREA,
Valentin RADITOIU, Cristian PETCU,
Ralucă SOMOGHI, Mihai Cosmin COROBEA
and Dan DONESCU

Preparation of hydrophobic and antireflective hybrid films by sol-gel process using perfluoroalkylsilane and tetraethoxysilane



Key words: sol-gel process, perfluoroalkylsilane, water contact angle, thin films.

Rev. Roum. Chim., 2013, 58(2-3), 283-289