

REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

Tome 53, N° 9

Septembre 2008

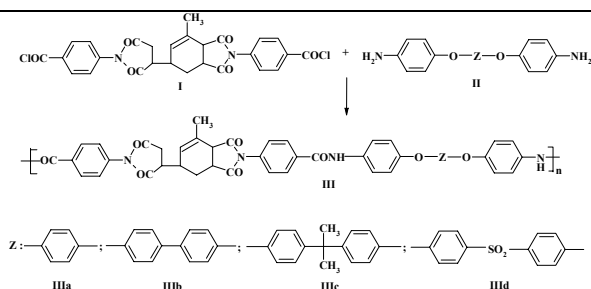
Professor Cristofor I. Simionescu (1920–2007)

Rev. Roum. Chim., 2008, 53(9), 653-736

PAPERS

Elena HAMCIUC, Camelia HULUBEI,
Maria BRUMĂ, Inga A. RONOVA and
Ekaterina A. SOKOLOVA

Influence of conformational parameters on physical properties of some poly(imide-ether-amide)s based on Epiclone

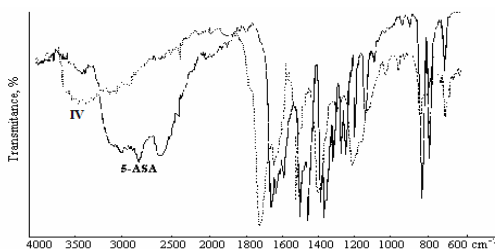


Key words: poly(imide-ether-amide)s, Epiclone, conformational rigidity, thermal properties, good solubility.

Rev. Roum. Chim., 2008, 53(9), 737-742

Camelia HULUBEI

Functional maleimide-based structural polymers

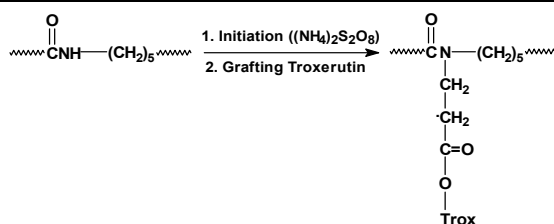


Key words: maleimides, polymaleimides, crosslinking, thermogravimetric analysis.

Rev. Roum. Chim., 2008, 53(9), 743-752

Marieta CONSTANTIN,
Gheorghe FUNDUEANU and
Marieta NICHIFOR

Synthesis and characterization of novel flavonoid based biomaterials

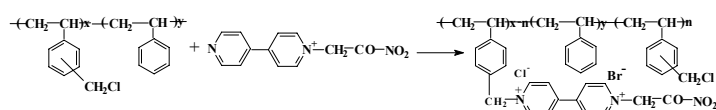


Key words: polyamide fabric, troxerutin, graft polymerization, drug delivery system.

Rev. Roum. Chim., 2008, 53(9), 753-758

Ecaterina AVRAM and Gabriela LISA

Thermal degradation behaviour and kinetic analysis of polystyrene with pendent viologen groups



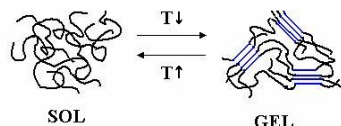
Key words: polyacrylonitrile, physical gelation, viscoelastic parameters.

Rev. Roum. Chim., 2008, 53(9), 759-768

Maria BERCEA, Simona MORARIU and Cristina-Eliza BRUNCHI

Influence of non-solvent on the gelation phenomenon of polymer solutions

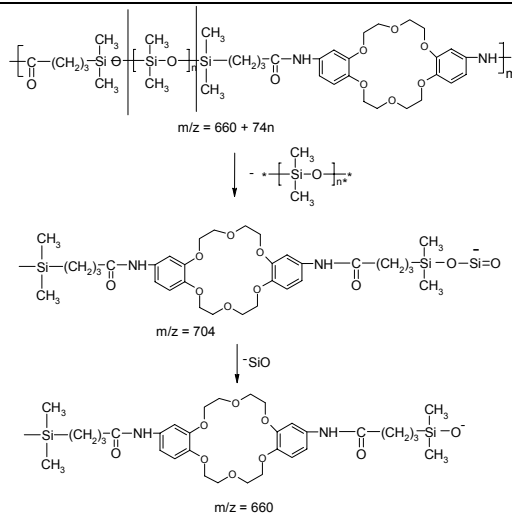
Rev. Roum. Chim., **2008**, 53(9), 769-776



Key words: polyacrylonitrile, sol-gel transition, viscoelastic paramet

Nicolae HURDUC, Ramona ENEA, Ioana MOLEAVIN, Elena-Emilia IORGULESCU and Victor DAVID

Characterization of some polysiloxanes containing nucleobases and azobenzene groups in their side-chain or crown azo-ether within polymeric chains by means of negative-ionization mass spectrometry with atmospheric pressure chemical ionization

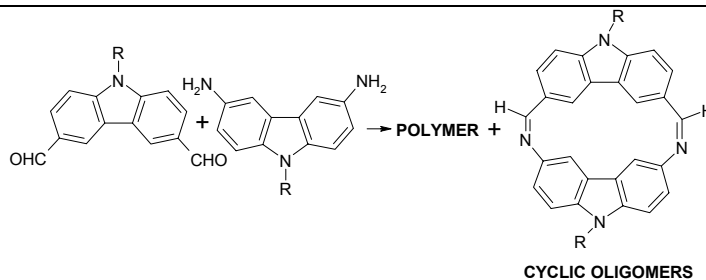


Key words: polysiloxanes, nucleobases, azobenzene, crown ether, mass spectrometry, fragmentation.

Rev. Roum. Chim., **2008**, 53(9), 777-785

Mircea GRIGORAȘ, Loredana STAFIE and Marian TOTOLIN

Polyimines containing N-hexyl 3,6-carbazoyl-diyl and 1,4-phenylene units in the main polymer chain

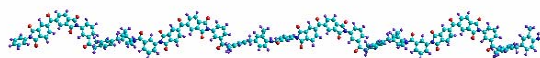


Key words: polyimines, solution polycondensation, linear polymer, macrocyclic compounds.

Rev. Roum. Chim., **2008**, 53(9), 787-794

Ion SAVA

Synthesis and characterization of some poly(amide-imide)s by direct polycondensation

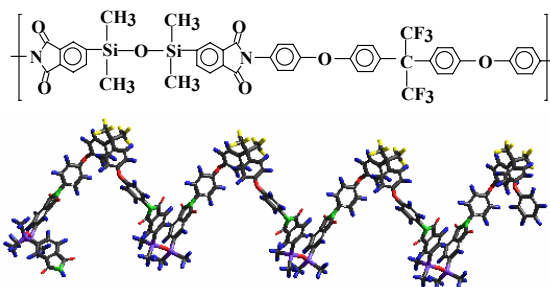


Key words: poly(amide-imide)s, direct polycondensation, high thermal stability, thin films.

Rev. Roum. Chim., **2008**, 53(9), 795-801

Maria BRUMĂ, Ion SAVA, Mariana Dana DĂMĂCEANU, Nataliya M. BELOMOINA and Jenifer ROBISON

New polyimides containing siloxane groups in the main chain



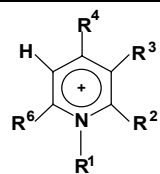
Key words: polyimides, siloxane groups, high thermal stability, thin films, green photoluminescence.

Rev. Roum. Chim., **2008**, 53(9), 803-811

Mariana Viorica BOGĂȚIAN,
Mircea VINATORU, Gheorghe BOGĂȚIAN,
Filip CHIRALEU, Mărioara GODEANU and
Călin DELEANU

Artificial membranes by the self-assembly of pyridinium salts with a free amino group derived from pyriliun salts with long alkyl substituents

Rev. Roum. Chim., 2008, 53(9), 813-819



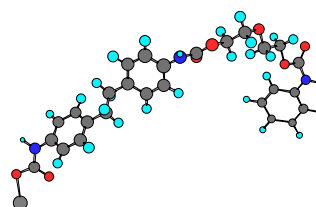
ClO_4^-

Key words: pyridinium salts, artificial membranes, optical microscopy, DLS.

Cristina PRISACARIU and Elena SCORTANU

Morphology of polyurethanes based on the chain extender ethylene glycol and aromatic flexible diisocyanates, as revealed by scanning electron microscopy

Rev. Roum. Chim., 2008, 53(9), 821-825

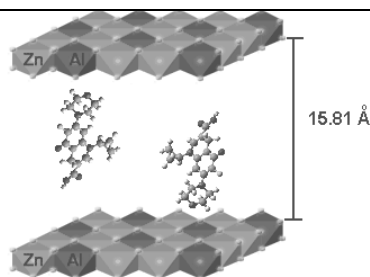


Key words: polyurethanes, diisocyanates, morphology, crystallinity.

Mihaela SILION (FRUNZA),
Marcel Ionel POPA, Gabriela LISA and
Doina HRITCU

New hybrid compounds containing intercalated ciprofloxacin into layered double hydroxides: synthesis and characterization

Rev. Roum. Chim., 2008, 53(9), 827-831

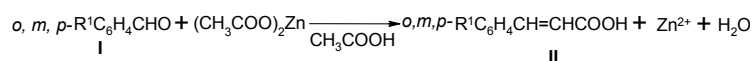


Key words: layered double hydroxides, ciprofloxacin, coprecipitation, ion exchange.

Constantin I. CHIRIAC, Fulga TANASA and
Mariora NECHIFOR

A new alternative method for the synthesis of cinnamic acids from aromatic aldehydes and zinc acetate

Rev. Roum. Chim., 2008, 53(9), 833-836

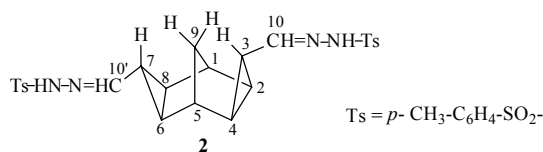


Key words: cinnamic acid, synthesis, zinc acetate, C-C-forming.

Emilia OLTEANU, Constantin DRĂGHICI and
Miron T. CĂPROIU

The synthesis and the spectral characterization of new bicyclo[2.2.1]heptadiene derivatives

Rev. Roum. Chim., 2008, 53(9), 837-840

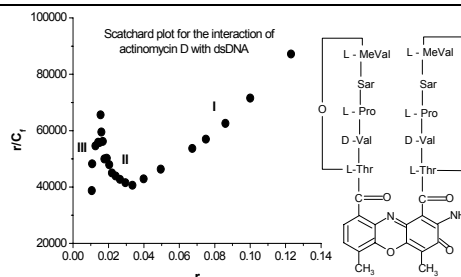


Key words: norbornadiene; bistosylhydrazone; Bamford Stevens reaction.

Mirela ENACHE and Elena VOLANSCHI

Fluorescence study of the interaction of antitumor drug actinomycin D with double stranded DNA

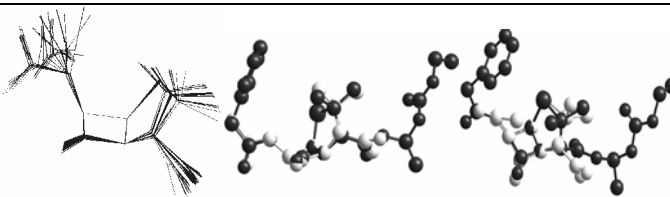
Rev. Roum. Chim., 2008, 53(9), 841-846



Key words: antitumor drug-DNA interaction, actinomycin D, fluorescence spectroscopy.

Mihaela SCHULZ, Maria MRACEC, Eugen ŞIŞU, Ludovic KURUNCZI and Mircea MRACEC

PM3 conformational analysis of the (3S,5R,6R)-6-acetylamidopenicillanic acid. I. Geometrical properties

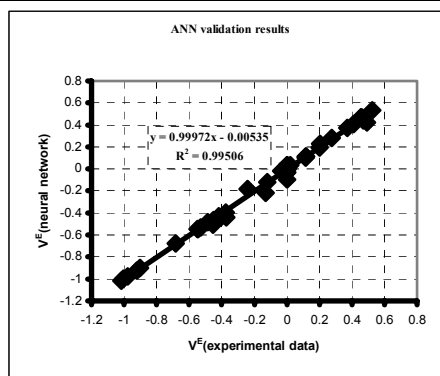


Rev. Roum. Chim., 2008, 53(9), 847-858

Key words: (3S,5R,6R)-6-acetylamidopenicillanic acid, conformational analysis, geometrical properties, PM3.

Gabriela LISA, Silvia CURTEANU and Cătălin LISA

Prediction of excess thermodynamic properties from experimental refractive index of binary mixtures. 2. Artificial neural network modeling

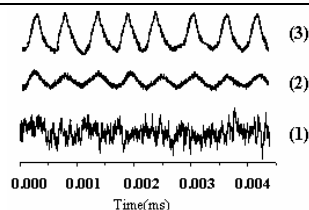


Rev. Roum. Chim., 2008, 53(9), 859-867

Key words: neural networks, excess thermodynamic properties, binary mixtures.

Cristina STAN, Constantin P. CRISTESCU and Dumitru ALEXANDROAEI

Coherence resonance in excitable systems: activator-inhibitor dynamics

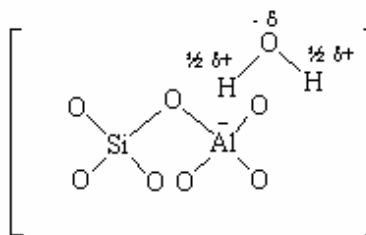


Rev. Roum. Chim., 2008, 53(9), 869-874

Key words: excitable systems, coherence resonance, chemical oscillator, electric double layer.

Alexandru CECAL, Oana HAUTĂ, Ada MACOVEI, Evelini POPOVICI, Ioana RUSU and Nicoleta MELNICIUC-PUICA

Hydrogen yield from water radiolysis in the presence of some pillared clays

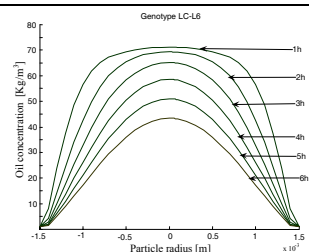


Rev. Roum. Chim., 2008, 53(9), 875-880

Key words: catalysis, clays, hydrogen, radiolysis, water.

Dorina BRĂTFĂLEAN, Vasile Mircea CRISTEA, Paul Şerban AGACHI and Dan Florin IRIMIE

Improvement of sunflower oil extraction by modelling and simulation



Rev. Roum. Chim., 2008, 53(9), 881-888

Key words: sunflower genotypes, mechanical oil press, Soxhlet extraction, mathematical modeling.