

# REVUE ROUMAINE DE CHIMIE (ROMANIAN JOURNAL OF CHEMISTRY)

Tome 51, N° 5

Mai 2006

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**In memoriam**

Professor Maria Brezeanu (1924–2005)

*Rev. Roum. Chim.*, 2006, 51(5), 355

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**List of papers of Professor Maria Brezeanu**

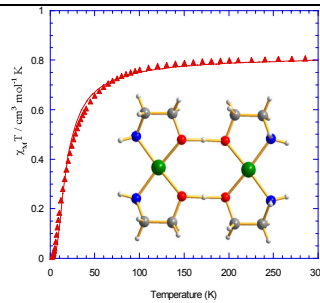
*Rev. Roum. Chim.*, 2006, 51(5), 357–365

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**PAPERS**

Violeta TUDOR, Geanina MARIN,  
Victor KRAVTSOV, Yurii A. SIMONOV,  
Miguel JULVE, Francesc LLORET  
and Marius ANDRUH

Supramolecular copper(II) dimers resulted from hydrogen bond interactions: synthesis, crystal structures and magnetic properties

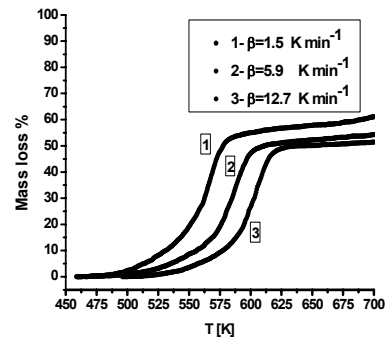


*Rev. Roum. Chim.*, 2006, 51(5), 367–371

**Key words:** copper complexes, 2-aminoethanol, hydrogen bonds, thiocyanato complexes, crystal structure, magnetic properties.

Andrei ROTARU, Bogdan JURCA, Anca MOANȚĂ, Ion SĂLĂGEANU and Eugen SEGAL

Kinetic study of the thermal decomposition of some aromatic *ortho*-chlorinated azomonoethers. 1. Decomposition of 4-[(2-chlorobenzyl)oxi]-4'-trifluoromethyl-azobenzene

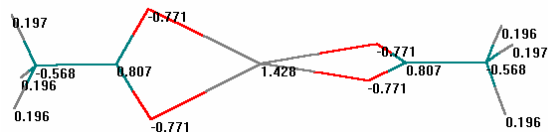


*Rev. Roum. Chim.*, 2006, 51(5), 373–378

**Key words:** non-isothermal kinetics, “model-free” kinetic methods, azomonoether thermal decomposition.

Valentin CAREJA, Mircea MRACEC,  
Ludovic SAYTI, Eugen SISU,  
Ramona TUDOSE and Zeno SIMON

Comparative study of some ionic bridges implying calcium and magnesium cations by computational methods

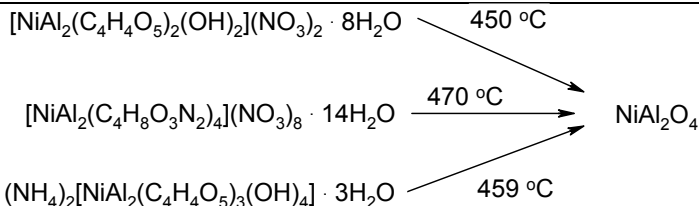


*Rev. Roum. Chim.*, 2006, 51(5), 379–383

**Key words:** ionic bridges, glycan-glycan interactions, dissociation energies, geometry, *ab initio* 6-31G\*.

Camelia SUCIU, Luminița PATRON,  
Ioana MÎNDRU and Oana CARP

Nickel aluminate spinel by thermal decomposition  
of polynuclear malate complexes

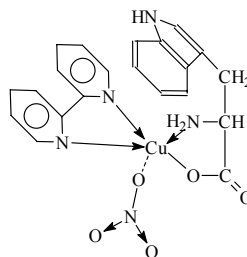


**Key words:** polynuclear malate compound, thermal decomposition, nickel aluminate, nanoparticles, XRD.

*Rev. Roum. Chim.*, 2006, 51(5), 385–389

Tudor ROȘU, Maria NEGOIU  
and Viorel CÂRCU

Mixed-ligand complexes. Ternary copper(II)  
complexes with aminoacids

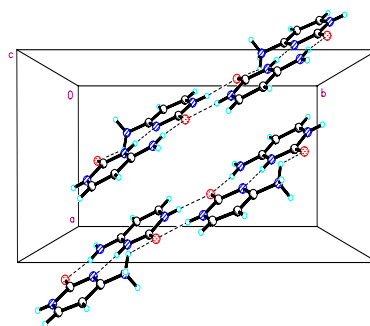


**Key words:** ternary complexes, amino acids, mixed ligand complexes.

*Rev. Roum. Chim.*, 2006, 51(5), 391–396

Laura BANCU, Polina BOUROSH,  
Ioana JITARU, Yurii A. SIMONOV  
and Janusz LIPKOWSKI

Synthesis and structural characterization of a new  
cadmium complex with cytosine

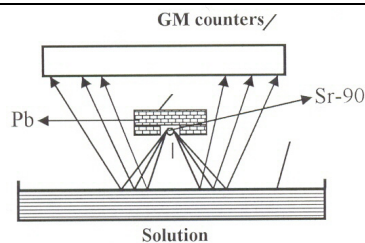


**Key words:** cadmium complexes, cytosine cation, X-ray diffraction, tautomeric forms, hydrogen bonds.

*Rev. Roum. Chim.*, 2006, 51(5), 397–401

Alexandru CECAL, Anca Irena BALAN,  
Nicoleta MELNICIUC-PUICA  
and Karin POPA

Use of  $\beta$ -rays backscattering to study the  
crystallization process of simple salts from  
solutions

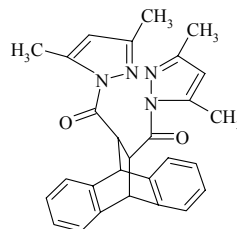


**Key words:**  $\beta$ -ray backscattering, crystal growth, kinetic parameters.

*Rev. Roum. Chim.*, 2006, 51(5), 403–408

Michaela Dina STĂNESCU, Adina RUS,  
Maria GIURGINCA and Cornelia GURAN

New dibenzobicyclo[2.2.2]octane derivatives

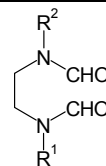


**Key words:** dibenzobicyclo[2.2.2]octane derivatives, coordinative complex.

*Rev. Roum. Chim.*, 2006, 51(5), 409–412

Horia PETRIDE, Constantin DRĂGHICI,  
Cristina FLOREA, Maria MAGANU  
and Silvia UDREA

*E/Z* isomerism of some diformamides



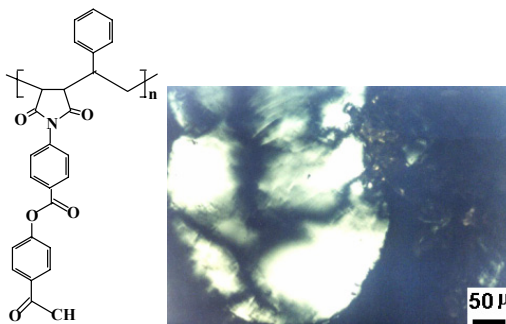
R<sup>1</sup>, R<sup>2</sup> = H, benzyl, benzoyl

*Rev. Roum. Chim.*, 2006, 51(5), 413–423

**Key words:** formamides, restricted rotation, NMR spectroscopy.

Camelia HULUBEI and Simona MORARIU

Alternating copolymers from N-(4-formylphenoxy-4'-carbonylphenyl)maleimide. A comparative study

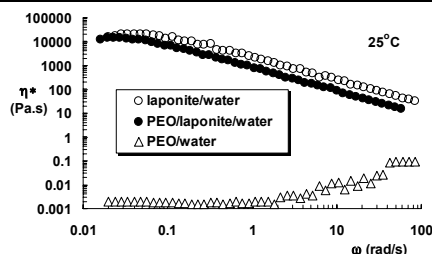


*Rev. Roum. Chim.*, 2006, 51(5), 425–433

**Key words:** malimide copolymers, liquid crystalline behavior.

Simona MORARIU and Maria BERCEA

Gels based poly(ethylene oxide)-laponite mixtures

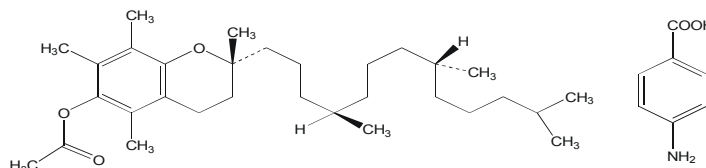


*Rev. Roum. Chim.*, 2006, 51(5), 435–438

**Key words:** laponite, poly(ethylene oxide), gel, viscoelastic properties.

Irinel Adriana BADEA, Luminița VLĂDESCU  
and Arabela PATRICHI

Simultaneous determination of vitamin E and  
vitamin H<sub>1</sub> by first derivative spectrometry in an  
ointment preparation

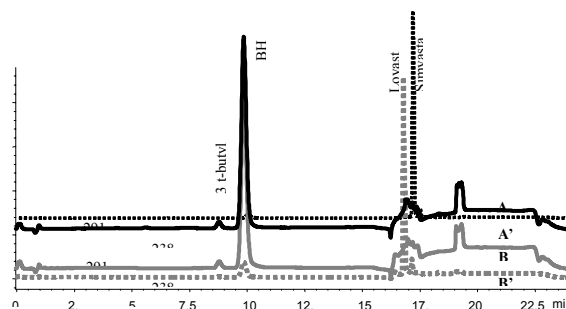


*Rev. Roum. Chim.*, 2006, 51(5), 439–445

**Key words:**  $\alpha$ -tocopheryl acetate, *para*-aminobenzoic acid, first derivative UV spectrometry.

Vasile DAVID, Corina BĂRCUȚEAN,  
Cristina GEORGITA  
and Andrei MEDVEDOVICI

Non-miscible solvent large volume injection –  
HPLC/DAD method for determination of  
butylated hydroxyanisole in lovastatin and  
simvastatin pharmaceutical formulations

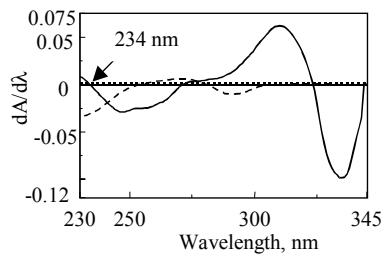


*Rev. Roum. Chim.*, 2006, 51(5), 447–453

**Key words:** BHA, lovastatin, simvastatin, non-miscible solvent large volume injection, HPLC, DAD.

Zenovia MOLDOVAN,  
Laurenția ALEXANDRESCU  
and Mădălina PIȚIGOI

Simultaneous estimation of some polymer  
additives by the spectrometric method

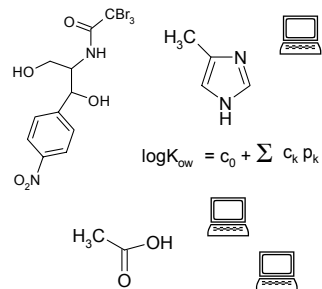


*Rev. Roum. Chim.*, 2006, 51(5), 455–461

**Key words:** polimer additives, derivative spectrometry, Rubber.

Laszlo TARKO

New molecular descriptors for hydrogen bonding  
potential



PRECLAV QSPR  $\log K_{ow}$  PRECLAV QSPR

*Rev. Roum. Chim.*, 2006, 51(5), 463–471

**Key words:** hydrogen bonding potential,  $\log_{ow}$ , PRECLAV, QSPR.