

REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

Tome 59, N^{os} 11-12

Novembre-Décembre 2014

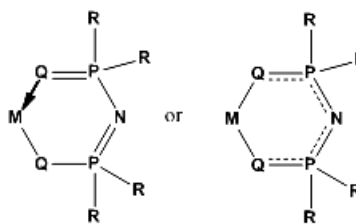
Professor Candin LITEANU – In memoriam

Rev. Roum. Chim., 2014, 59(11-12), 903-904

MINI-REVIEW

Ionel HAIDUC

Inorganic (carbon-free) cyclic structures. Covalent rings and cyclic supermolecules



Q = O, S, Se, Te

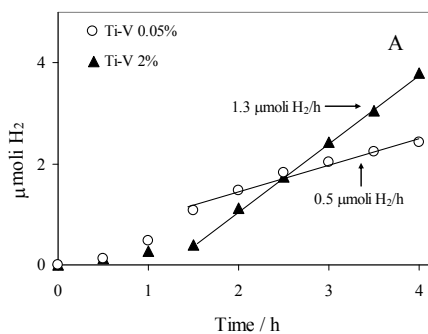
Key words: inorganic rings, homo and heterocycles, chelate rings, cyclic supermolecules.

Rev. Roum. Chim., 2014, 59(11-12), 905-918

PAPERS

Irina STANCIU, Luminita PREDOANA,
Crina ANASTASESCU, Daniela C. CULITA,
Silviu PREDA, Jeanina PANDELE CUSU,
Cornel MUNTEANU, Adriana RUSU,
Ioan BALINT and Maria ZAHARESCU

Structure and properties of vanadium doped TiO₂ powders prepared by sol-gel method

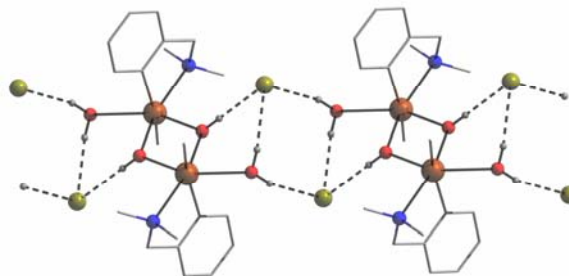


Key words: V-doped TiO₂, sol-gel method, structure, morphology, photocatalytic tests.

Rev. Roum. Chim., 2014, 59(11-12), 919-929

Adrian-Alexandru SOMEȘAN,
Richard A. VARGA and Cristian SILVESTRU

[2-(Me₂NCH₂)C₆H₄]₂SnMeCl₂ and its hydrolysis product,
[2-(Me₂NCH₂)C₆H₄]₂SnMe(OH)(OH₂)₂²⁺·2Br⁻ -
solution and solid state characterization

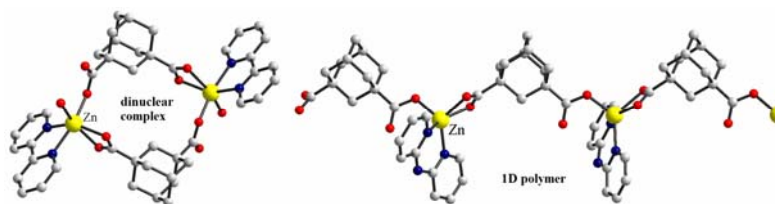


Key words: diorganotin(IV), solution NMR spectroscopy, molecular structure, intermolecular interaction.

Rev. Roum. Chim., 2014, 59(11-12), 931-938

Gabriela MARINESCU,
Augustin M. MADALAN and Marius ANDRUH

Polynuclear zinc(II) complexes with adamantane-dicarboxylato-bridges. Crystal structure and luminescence properties

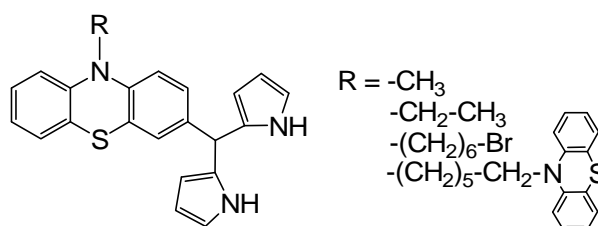


Key words: zinc(II) complexes, adamantane-1,3-dicarboxylato bridges, polynuclear complexes, crystal structures, luminescence properties.

Rev. Roum. Chim., **2014**, 59(11-12), 939-946

Balazs BREM, Emese GAL, Luiza GAINA,
Castelia CRISTEA and
Luminița SILAGHI-DUMITRESCU

Synthesis of novel
(phenothiazinyl)dipyrrolylmethanes

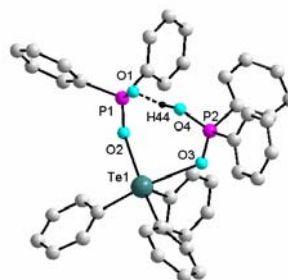


Key words: N-alkyl-phenothiazine, *meso*-aryl-dipyrromethane, borondifluorodipyrromethene BODIPY.

Rev. Roum. Chim., **2014**, 59(11-12), 947-952

Nora CHIOREAN, Dragos MARGINEANU and
Anca SILVESTRU

New triphenyltelluronium salts of
organophosphorus ligands

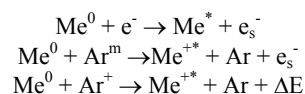


Key words: triorganotellurium(IV) compounds, organophosphorus ligands, NMR spectroscopy, crystal and molecular structure.

Rev. Roum. Chim., **2014**, 59(11-12), 953-958

Tiberiu FRENTIU, Michaela PONTA,
Sergiu CADAR and Maria FRENTIU

Excitation mechanism of atomic and ionic species
in the argon capacitively coupled plasma in
annular-coaxial geometry with single and two ring
electrodes

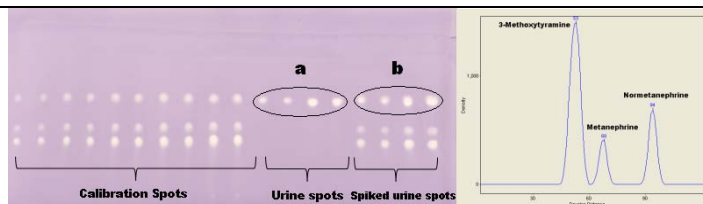


Key words: capacitively coupled plasma, optical emission spectrometry, plasma-chemical model, excitation mechanism.

Rev. Roum. Chim., **2014**, 59(11-12), 959-963

Ioana Anamaria SIMA, Dorina CASONI and
Costel SÂRBU

Rapid screening method for the diagnosis of
adrenal tumors

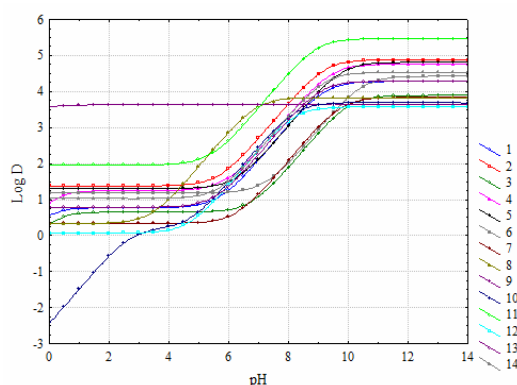


Key words: normetanephrine, metanephrine, 3-methoxytyramine, pheochromocytoma, HPTLC/DPPH· detection.

Rev. Roum. Chim., **2014**, 59(11-12), 965-970

Rodica Domnica NAȘCU-BRICIU,
Ioana Anamaria SIMA and Costel SÂRBU

The lipophilicity of some drugs with tricyclic structure estimated by thin-layer chromatography and computed by various methods

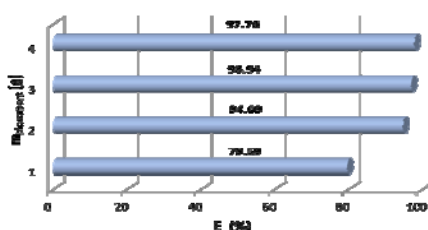


Key words: antidepressants, phenothiazines, lipophilicity, TLC, pH influence, pK_a .

Rev. Roum. Chim., 2014, 59(11-12), 971-979

Carmen MĂNZATU, Boldizsár NAGY,
Anamaria TÖRÖK, Cerasella INDOLEAN and
Cornelia MAJDIK

Biosorption of Cd(II) on untreated fir cone powder: kinetic and equilibrium isotherm studies

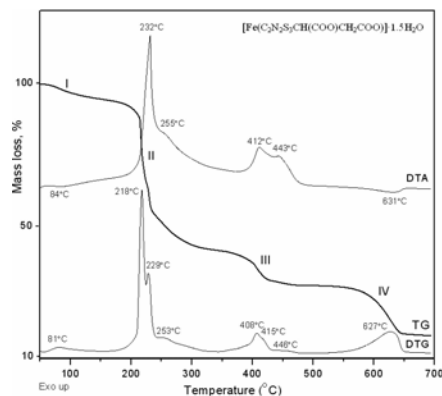


Key words: biosorption, cadmium, fir cone powder, kinetics, isotherms.

Rev. Roum. Chim., 2014, 59(11-12), 981-988

Monica M. VENTER, Firuța GOGA,
Vasile N. BERCEAN, Mircea NASUI
and Gheorghe BORODI

Spectroscopic and thermal studies on the iron(III) mercapto-thiadiazol-thiosuccinate precursor for iron(III) oxides

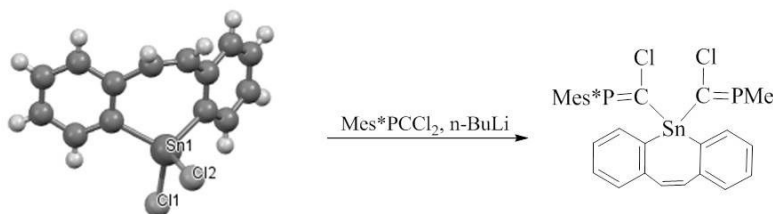


Key words: iron(III) carboxylate, thermal decomposition, hematite.

Rev. Roum. Chim., 2014, 59(11-12), 989-996

Raluca ȘEPTLEAN, Gabriela NEMEȘ and
Petronela M. PETRAR

Synthesis of novel functionalized dibenzostannepine derivatives



Key words: (phosphaalkenyl)stannepine, dihalostannepine, phosphastannapropenes.

Rev. Roum. Chim., 2014, 59(11-12), 997-1001

**Ioan BRATU, Constantin MARUTOIU,
Laura TROSAN, Zaharie MOLDOVAN,
Irina KACSO and Daniela TOADER**

Complex investigation of component materials of triptych Icon “Mother of God” from the patrimony of Ethnographic Museum of Transylvania

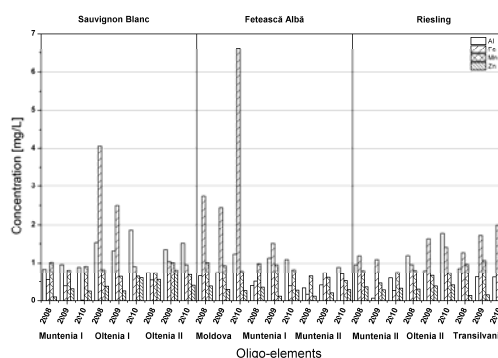


Rev. Roum. Chim., 2014, 59(11-12), 1003-1008

Key words: wooden icon, FTIR and EI-MS spectroscopy, DSC thermal analysis.

**Veronica AVRAM, Cezara VOICA,
Anamaria HOSU, Claudia CIMPOIU and
Constantin MĂRUȚOIU**

ICP-MS characterization of some Roumanian white wines by their mineral content

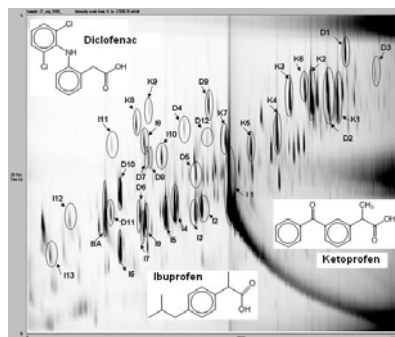


Rev. Roum. Chim., 2014, 59(11-12), 1009-1019

Key words: white wine, metal content, $^{206}\text{Pb}/^{207}\text{Pb}$ and $^{206}\text{Pb}/^{208}\text{Pb}$, $^{87}\text{Sr}/^{86}\text{Sr}$, ICP-Q-MS.

**Mihail Simion BELDEAN-GALEA,
Virginia COMAN, Florina COPACIU,
Didier THIÉBAUT and Jérôme VIAL**

Simultaneous identification of Fenton degradation by-products of diclofenac, ibuprofen and ketoprofen in aquatic media by comprehensive two-dimensional gas chromatography coupled with mass spectrometry

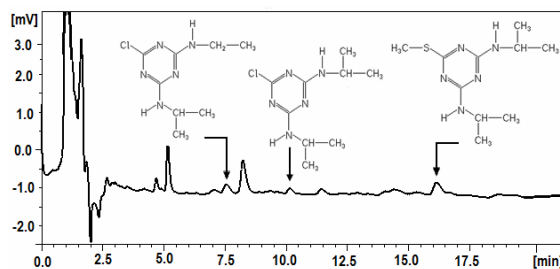


Rev. Roum. Chim., 2014, 59(11-12), 1021-1027

Key words: Fenton oxidative process, diclofenac, ibuprofen, ketoprofen, GCxGC-qMS.

Andreea DRĂGUȘ, Mihail Simion BELDEAN-GALEA and Virginia COMAN

Determination of triazine herbicides in soil samples by ultrasound-assisted extraction followed by dispersive liquid-liquid microextraction based on solidification of floating organic droplet and HPLC-UV analysis

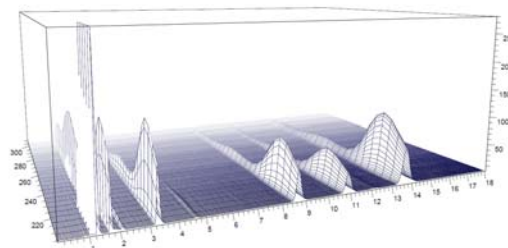


Rev. Roum. Chim., 2014, 59(11-12), 1029-1036

Key words: triazine herbicides, soil samples, ultrasound-assisted-extraction, dispersive liquid-liquid microextraction, solidification of floating organic droplet, high performance liquid chromatography.

Florin SOPONAR, Mihaela SANDRU and Victor DAVID

Quantitative evaluation of aripiprazole and its five related chemical impurities from pharmaceuticals using a HPLC-DAD method

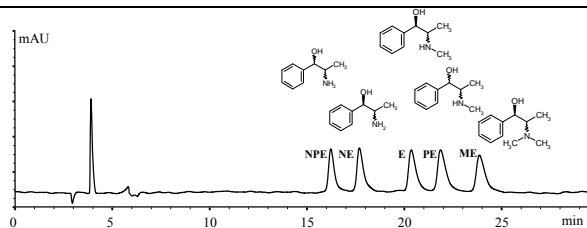


Key words: aripiprazole, HPLC-DAD, pharmaceutical preparations, related impurities, validation.

Rev. Roum. Chim., 2014, 59(11-12), 1037-1046

Elena Emilia IORGULESCU, Florin ALBU, Florentin TACHE and Andrei MEDVEDOVICI

On the HPLC/MS-MS assay of ephedrines in urine: an experimental appraisal

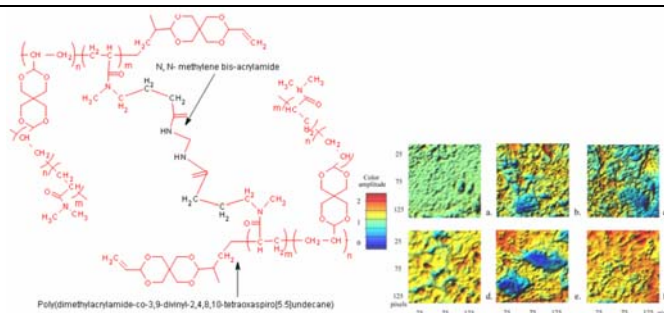


Key words: ephedrines, urine matrix, LC/MS-MS, method validation, method's comparison.

Rev. Roum. Chim., 2014, 59(11-12), 1047-1057

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

An investigation on multi-layered hydrogels based on poly(N,N-dimethylacrylamide-co-3,9-divinyl-2,4,8,10-tetraoxaspiro(5.5)undecane)



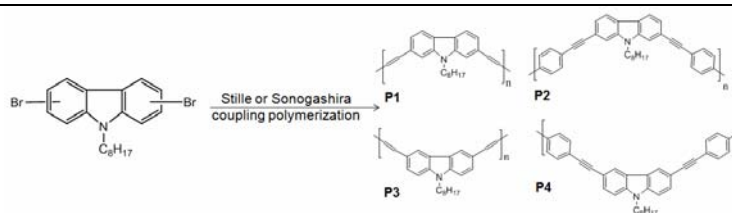
Multi-layered hydrogel structures based on poly(N,N-dimethylacrylamide-co-3,9-divinyl-2,4,8,10-tetraoxaspiro(5.5)undecane) crosslinked with N,N-methylene bisacrylamide. It was prepared. For edges formation between gel layers different solutions of small molecular chemical compounds, respectively β -cyclodextrin, NaCl, sodium citrate, ammonium sulphate solution, quercetin, were used. AFM-chemical imaging confirm the supra-structure of gels which includes also the small molecular chemical compounds.

Key words: poly(N, N-dimethylacrylamide – co – 3, 9-divinyl-2, 4, 8, 10-tetraoxaspiro (5.5) undecane), multi-layer hydrogel, imprinting effect.

Rev. Roum. Chim., 2014, 59(11-12), 1059-1068

Ana-Maria CATARGIU and Mircea GRIGORAS

A comparative study of optical and electronic properties of arylenevinylene and aryleneethynylene polymers containing 2,7 and 3,6 substituted carbazole units

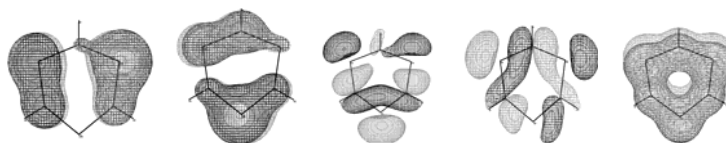


Key words: poly(arylene vinylene), poly(arylene ethynylene), optical properties, redox behaviour.

Rev. Roum. Chim., 2014, 59(11-12), 1069-1075

Mihai MEDELEANU, Maria MRACEC, Oana Raluca POP, Liviu MOCANU and Mircea MRACEC

Aromatic λ^3 -heterocycles. 19. Thermodynamic stability of alternant conjugated heterocycles (λ^3 -X- λ^3 -Y)₃ (X, Y = CH, N, P, As, Sb, Bi) calculated by semiempirical MO, *ab initio* and DFT methods

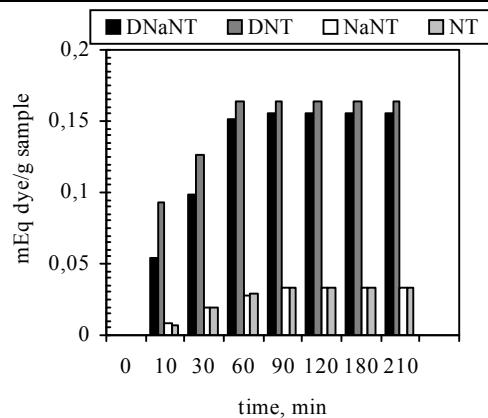


Key words: aromatic λ^3 -heterocycles, PM3, PM6, *ab initio*, DFT.

Rev. Roum. Chim., 2014, 59(11-12), 1077-1087

**Claudia COBZARU, Corina CERNATESCU
and Adriana MARINOIU**

Modified clinoptilolite used for removing
azomethines from wastewaters. II. Adsorption
of azomethines from wastewaters on clinoptilolite



Rev. Roum. Chim., **2014**, 59(11-12), 1089-1096

Key words: dealuminated clinoptilolite, adsorption process, azomethine dyes,
wastewater purification.

Index of authors

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