

REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

Tome 65, N° 6

Juin 2020

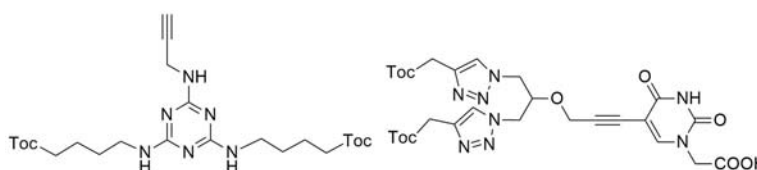
Professor Ion Grosu – Mastering Organic Chemistry

Rev. Roum. Chim., 2020, 65(6), 513-515

PAPERS

Ralph SPRINGER and Jürgen LIEBSCHER

New tocopherol derivatives for functionalization of amino or carboxyl groups with lipid anchors



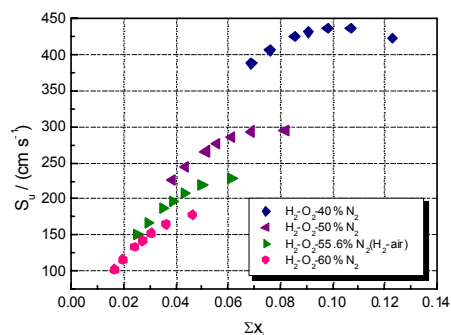
DOI: 10.33224/rch.2020.65.6.01

Rev. Roum. Chim., 2020, 65(6), 517-528

Key words: peptide nucleic acids, tocopherol anchor, alkynes, carboxylic acids, azides.

Domnina RAZUS, Maria MITU,
Venera GIURCAN, Codina MOVILEANU and
Dumitru OANCEA

Numerical study of pressure and composition influence on laminar flame propagation in nitrogen-diluted H₂-O₂ mixtures



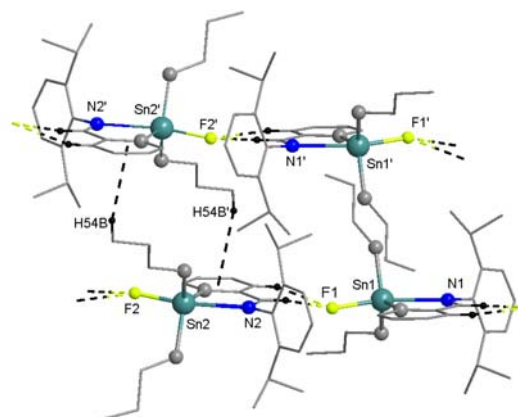
DOI: 10.33224/rch.2020.65.6.02

Rev. Roum. Chim., 2020, 65(6), 529-537

Key words: Laminar burning velocity, flame, hydrogen, oxygen, nitrogen, overall activation parameters.

Carmen COMSA, Richard A. VARGA,
Albert SORAN and Cristian SILVESTRU

Hypercoordinated organotin(IV) compounds containing (imino)aryl ligands - [(E)-2-(2',6'-ⁱPr₂C₆H₃N=CH)C₆H₄]SnR₂X (R = Me; X = Cl, I; R = ⁿBu, X = Cl, F, Br). Molecular structures and supramolecular aspects



DOI: 10.33224/rch.2020.65.6.03

Rev. Roum. Chim., 2020, 65(6), 539-552

Key words: hypervalent organometallics, hypercoordinated dialkyl(iminoaryl)tin(IV) halides, solution NMR spectroscopy, single-crystal X-ray diffraction.

Andrei A. PATRASCU, Catalin MAXIM and Marius ANDRUH

Construction of polynuclear copper(II) complexes from mono- and binuclear modules

DOI: 10.33224/rch.2020.65.6.04

Rev. Roum. Chim., 2020, 65(6), 553-558



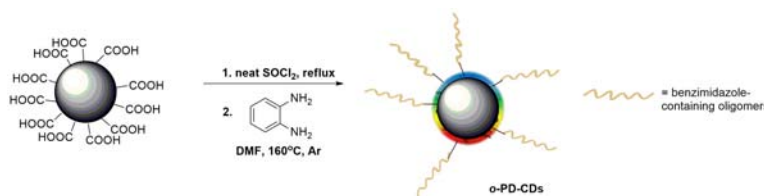
Key words: copper complexes, coordination polymers, trinuclear complexes, binuclear tectons.

Andreea P. CRISAN, Ana-Maria CRACIUN, Iuliana MIHALACHE, Monica FOCSAN, Crina SOCACI, Dana MANIU, Simion ASTILEAN, L. Monica VECA and Anamaria TERC

Surface passivation of carbon nanoparticles with 1,2-phenylenediamine towards photoluminescent carbon dots

DOI: 10.33224/rch.2020.65.6.05

Rev. Roum. Chim., 2020, 65(6), 559-566



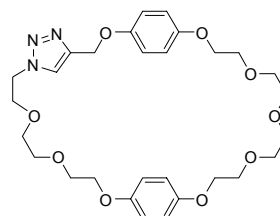
Key words: carbon nanoparticles, luminescent nanomaterials, 1,2-phenylenediamine, FT-IR technique.

Teodor A. CUCUIET, Cătălin C. ANGHEL, Elena BOGDAN, Andreea CRISAN, Mihaela MATACHE, Lidia POP, Anamaria TERC and Niculina D. HĂDADE

Click synthesis and complexation properties of a new unsymmetrical macrocycle bearing 1,4-dioxabenzene and triazole units

DOI: 10.33224/rch.2020.65.6.06

Rev. Roum. Chim., 2020, 65(6), 567-572



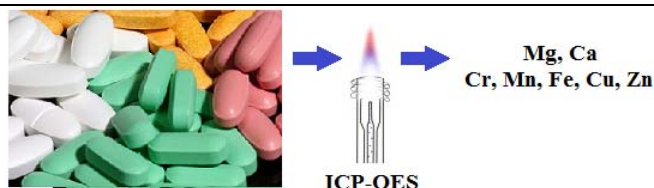
Key words: 1,4-dioxabenzene, triazole, NMR spectroscopy, thin layer chromatography (TLC),

Dorina CASONI, Michaela PONTA, Mihaela-Nicoleta BIBICA, Ioana-Violeta LAZAR and Tiberiu FRENTIU

A free non-spectral interferences method based on inductively coupled plasma optical emission spectrometry for multielemental determination in multimineral/multivitamin preparations

DOI: 10.33224/rch.2020.65.6.07

Rev. Roum. Chim., 2020, 65(6), 573-578



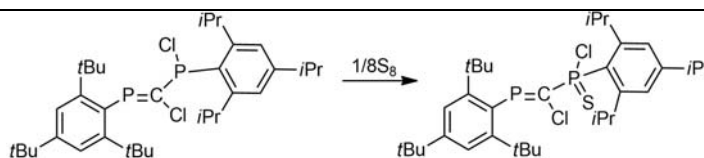
Key words: inductively coupled plasma optical emission spectrometry, method validation, multimineral/multivitamin formulation, multielemental determination.

Raluca SEPTELEAN, Alexandra MURESAN, Albert SORAN, Ionut-Tudor MORARU and Gabriela NEMES

New stable 2,3-dichloro,1,3-diphosphapropenes; synthesis and characterization

DOI: 10.33224/rch.2020.65.6.08

Rev. Roum. Chim., 2020, 65(6), 579-585



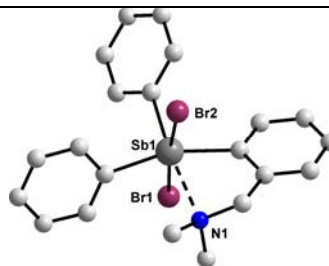
Key words: 1,3-diphosphapropene, phosphalkenyl compounds, thioxide derivatives.

Eleonora DENES, Christian LINDORFER, Luiza DRAGOMIR, Ciprian I. RAȚ and Anca SILVESTRU

New hypercoordinated organoantimony(V) bromides. Synthesis and structural characterization

DOI: 10.33224/rch.2020.65.6.09

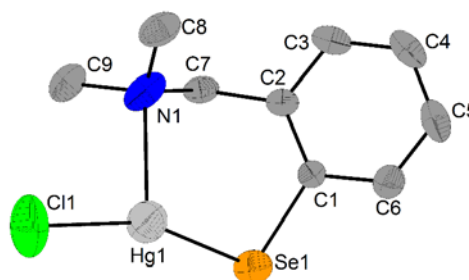
Rev. Roum. Chim., 2020, 65(6), 587-593



Key words: hypercoordinated organoantimony(V) compounds, NMR spectroscopy, solution behaviour, crystal and molecular structure.

Cătălin Eduard ȘALGĂU and Alexandra POP

Synthesis and structural characterization of mercury(II) metal complexes containing the 2-(Me₂NCH₂)C₆H₄Se ligand

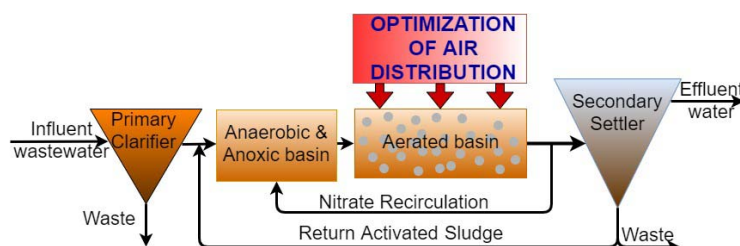


DOI: 10.33224/rch.2020.65.6.10
Rev. Roum. Chim., 2020, 65(6), 595-600

Key words: mercury(II) complexes, organoselenolato ligands, NMR spectroscopy, crystal structure, supramolecular association.

**Melinda SIMON-VÁRHELYI,
 Vasile Mircea CRISTEA,
 Alexandra Veronica LUCA and
 Marius Adrian BREHAR**

Optimization and control of aeration distribution in the WWTP nitrification reactor

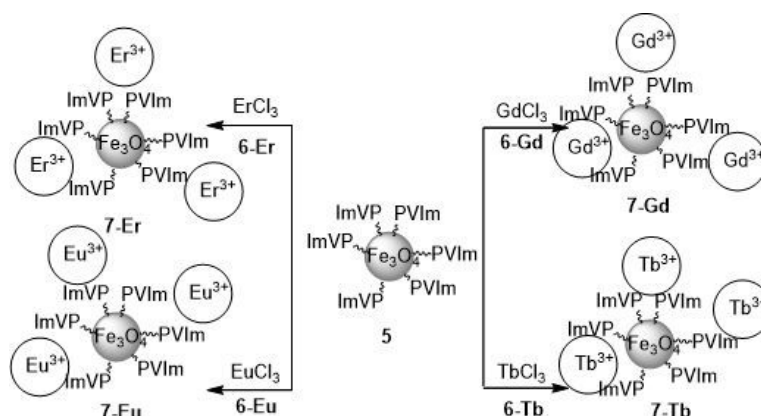


DOI: 10.33224/rch.2020.65.6.11
Rev. Roum. Chim., 2020, 65(6), 601-609

Key words: waste water treatment plant, optimization, aeration control.

Alexandrina NAN and Rodica TURCU

Poly(1-vinylimidazole) grafted on magnetic nanoparticles - attainment of novel nanostructures

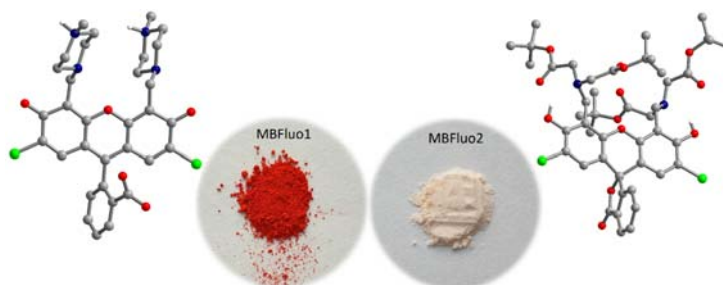


DOI: 10.33224/rch.2020.65.6.12
Rev. Roum. Chim., 2020, 65(6), 611-616

Key words: magnetic nanoparticles, poly(1-vinylimidazole), radical polymerization, rare earth metals.

Mihai RĂDUCĂ and Augustin M. MĂDĂLAN

Synthesis, crystal structures and solid-state optical properties of two Mannich derivatives of 2',7'-dichlorofluorescein



DOI: 10.33224/rch.2020.65.6.13
Rev. Roum. Chim., 2020, 65(6), 617-622

Key words: 2',7'-dichlorofluorescein, Mannich reaction, X-ray diffraction, IR spectra, UV-Vis-NIR spectra.

