

REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

Tome 65, N^{os} 7-8

Juliet-Août 2020

Academician Cristian Silvestru a step further into the realm of organometallic chemistry in Cluj-Napoca. List of publications

Rev. Roum. Chim., 2020, 65(7-8), 627-633

REVIEWS

Hans Joachim BREUNIG

The role of the substituents in the chemistry of organoantimony(I) compounds

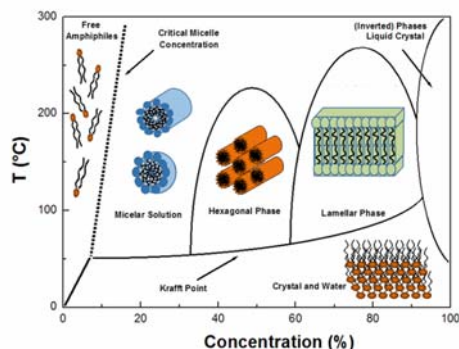


DOI: 10.33224/rch.2020.65.7-8.01
Rev. Roum. Chim., 2020, 65(7-8), 635-646

Key words: organoantimony(I) compounds, polymers, cycles, distibenes, stibinidenes.

Loredana MAIUOLO, Pietro CALANDRA, Domenico LOMBARDO and Elisabeta I. SZERB

Amphiphiles-metals interactions for applications in modern technologies: recent developments and future perspectives



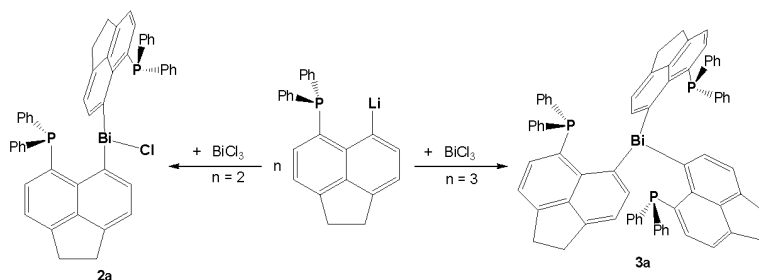
DOI: 10.33224/rch.2020.65.7-8.02
Rev. Roum. Chim., 2020, 65(7-8), 647-671

Key words: amphiphiles, self-assembly, metallosurfactants, metals, metal-amphiphile interactions.

PAPERS

Sinas FURAN, Emanuel HUPF, Enno LORK and Jens BECKMANN

Synthesis and structure of 6-diphenylphosphinoacenaphth-5-yl bismuth compounds



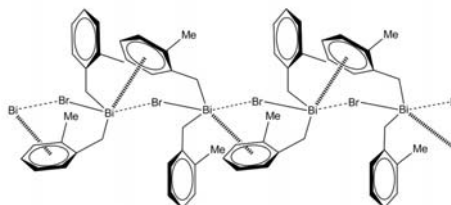
DOI: 10.33224/rch.2020.65.7-8.03
Rev. Roum. Chim., 2020, 65(7-8), 673-676

Key words: bismuth, phosphorus, *peri*-substitution, intramolecular coordination.

**Ana-Maria FRITZSCHE, Tobias RÜFFER,
Heinrich LANG and Michael MEHRING**

Dispersion interaction of the type-bismuth... π arene
in substituted bismuthines

London dispersion interaction accompany
strong donor acceptor bonds in supramolecular systems

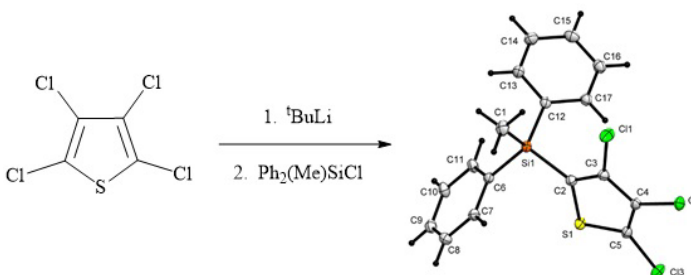


DOI: 10.33224/rch.2020.65.7-8.04
Rev. Roum. Chim., 2020, 65(7-8), 677-684

Key words: benzyl bismuth compounds, dispersion interaction, single crystal X-Ray structure, 1D coordination polymer.

Albert SORAN and Ionel HAIDUC

Molecular structure and supramolecular association
of trichloro-2-thienyl-diphenylmethylsilane

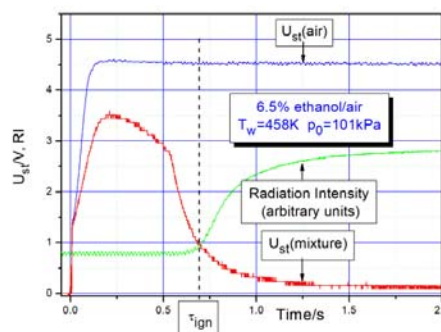


DOI: 10.33224/rch.2020.65.7-8.05
Rev. Roum. Chim., 2020, 65(7-8), 685-691

Key words: organosilicon, halogen interactions, supramolecular, X-ray diffraction.

**Valentin MUNTEANU, Maria MITU,
Domnina RAZUS and Dumitru OANCEA**

Kinetics of isothermal ignition and combustion
of some oxygenated VOCs
on platinum wire

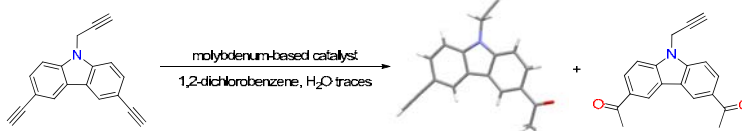


DOI: 10.33224/rch.2020.65.7-8.06
Rev. Roum. Chim., 2020, 65(7-8), 693-698

Key words: acetone, ethanol, methyl *tert*-butyl ether, ignition delay, platinum.

**Andreea CRIȘAN, Alexandra POP,
Elena BOGDAN, Mihaela MATAACHE,
Lidia POP, Anamaria TEREÇ, Ion GROSU and
Niculina HĂDADE**

Selective hydration of electron-rich aryl-alkynes by
a Schrock-type molybdenum alkylidene catalyst



DOI: 10.33224/rch.2020.65.7-8.07
Rev. Roum. Chim., 2020, 65(7-8), 699-705

Key words: hydration, aryl-alkynes, Schrock-type molybdenum alkylidene catalyst.

Niculae I. IONESCU and Veronica BRĂTAN

Concerning the logarithmic law used in adsorption-
desorption of solid-gas reactions

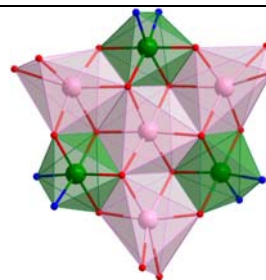
$$\frac{1}{q} = \frac{N}{b} \ln t$$

DOI: 10.33224/rch.2020.65.7-8.08
Rev. Roum. Chim., 2020, 65(7-8), 707-709

Key words: reactions solid-gas, logarithmic law.

Adrian Alexandru APOSTOL,
Georgiana VASILE, Teodora MOCANU,
Catalin MAXIM, Violeta TUDOR and
Marius ANDRUH

New mixed-valence disk-like [Co₇] clusters
 with aminoalcohol ligands

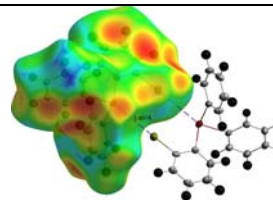


DOI: 10.33224/rch.2020.65.7-8.09
Rev. Roum. Chim., **2020**, 65(7-8), 711-718

Key words: cobalt complexes, mixed-valence complexes, heptanuclear
 complexes, X-Ray structures.

Marian OLARU, Krisztina T. KEGYES and
Ciprian I. RAȚ

Molecular structures of
 (2-bromophenyl)diphenylstibane and
 {2'-bromo-[1,1'-biphenyl]-2-yl}diphenylstibane

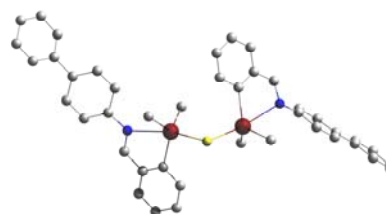


DOI: 10.33224/rch.2020.65.7-8.10
Rev. Roum. Chim., **2020**, 65(7-8), 719-724

Key words: organoantimony(III) compounds, molecular structure,
 X-ray diffraction.

Adrian-Alexandru SOMEȘAN,
Ioana BARBUL, Sabina-Mădălina VIERIU and
Richard A. VARGA

Synthesis and characterization of novel
 homobimetallic organotin(IV) compounds

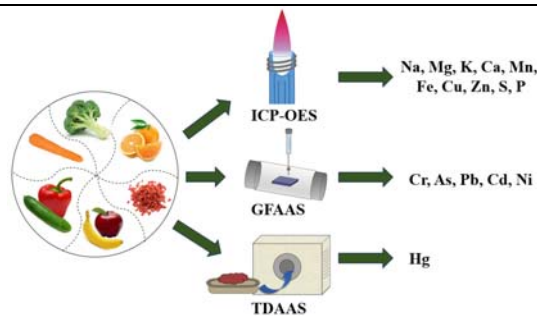


DOI: 10.33224/rch.2020.65.7-8.11
Rev. Roum. Chim., **2020**, 65(7-8), 725-733

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

Eniko COVACI, Marin SENILA,
Michaela PONTA and Tiberiu FRENTIU

Analytical performances and validation of optical
 emission and atomic absorption spectrometry
 methods for multielemental determination in
 vegetables and fruits

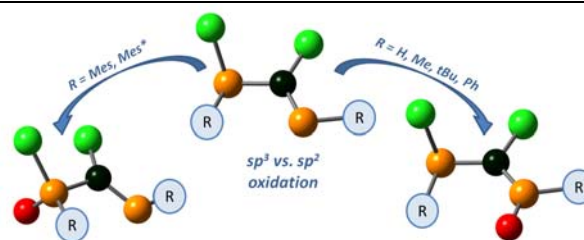


DOI: 10.33224/rch.2020.65.7-8.12
Rev. Roum. Chim., **2020**, 65(7-8), 735-745

Key words: inductively coupled plasma optical emission spectrometry, graphite
 furnace atomic absorption spectrometry, thermal decomposition
 atomic absorption spectrometry, method validation.

Ionut-Tudor MORARU, Raluca SEPTELEAN
and Gabriela NEMES

Oxidation of sp² versus sp³ phosphorus atom in
 1,3-diphosphapropenes. A DFT study

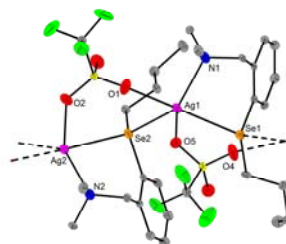


DOI: 10.33224/rch.2020.65.7-8.13
Rev. Roum. Chim., **2020**, 65(7-8), 747-753

Key words: 1,3-diphosphapropenes, DFT calculations, kinetic vs.
 thermodynamic products.

Darius DUMITRAS,
Ana-Maria HODOROGEA,
Dragoș MĂRGINEANU and Alexandra POP

New silver(I) and mercury(II) metal complexes containing the heteroleptic diorganoselenium(II) ligand (n-Bu)[2-(Me₂NCH₂)C₆H₄]Se. Synthesis and structural characterization

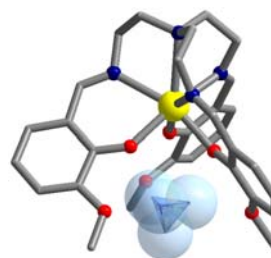


DOI: 10.33224/rrch.2020.65.7-8.14
Rev. Roum. Chim., **2020**, 65(7-8), 755-760

Key words: heteroleptic diorganoselenium(II) ligand, silver(I) complex, NMR spectroscopy, 1D coordination polymer, crystal structure.

Andrei COSTACHE and
Augustin M. MĂDĂLAN

Mononuclear lanthanide(III) complexes with tripodal ligands as ammonium cation receptors



DOI: 10.33224/rrch.2020.65.7-8.15
Rev. Roum. Chim., **2020**, 65(7-8), 761-765

Key words: tripodal ligands, lanthanide complexes, ammonium receptors.
