

REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

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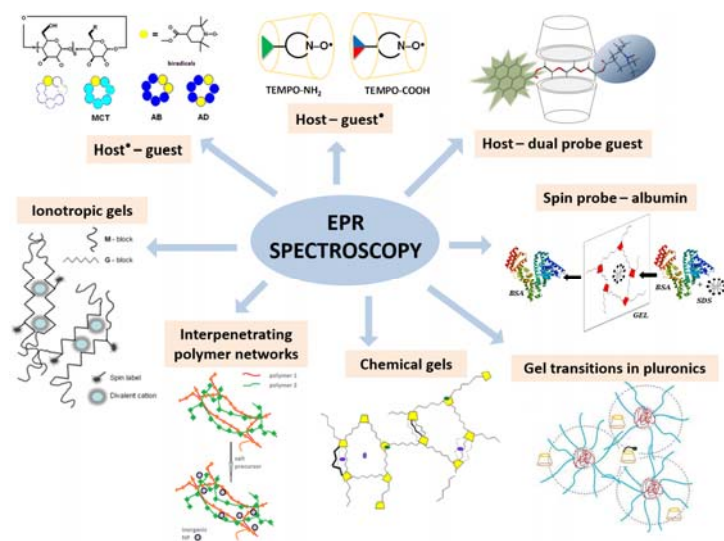
Prof. Mihaela Hillebrand at her 80th anniversary

Rev. Roum. Chim., 2021, 66(1), 7

REVIEW

Iulia MATEI, Elena Irina POPESCU,
Sorin MOCANU, Elena Nușa HRISTEA,
Florența SAVONEA, Rodica BĂRĂȚOIU
and Gabriela IONIȚĂ

Non-covalent interactions evidenced by EPR spectroscopy in cyclodextrin complexes



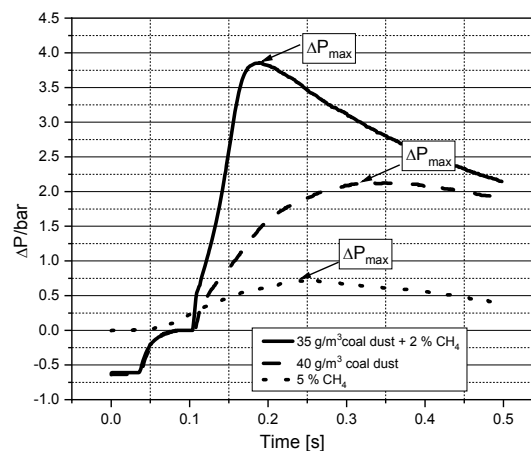
DOI: 10.33224/rch.2021.66.1.01
Rev. Roum. Chim., 2021, 66(1), 9-23

Key words: EPR spectroscopy, spin probe, spin labelling, cyclodextrin, gel.

PAPERS

Maria PRODAN, Emilian GHICIOI,
Adrian JURCA and Dumitru OANCEA

Ignition and propagation properties of coal dust – air – methane hybrid mixtures

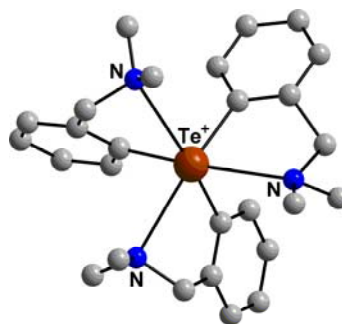


DOI: 10.33224/rch.2021.66.1.02
Rev. Roum. Chim., 2021, 66(1), 25-32

Key words: ignition; propagation; hybrid mixture; coal dust; normal burning velocity.

**Eleonora DENES, Mihaela VLASSA,
Cristian SILVESTRU and Anca SILVESTRU**

New hypercoordinated triaryltelluronium
derivatives of organophosphorus ligands.
Synthesis and structural characterization

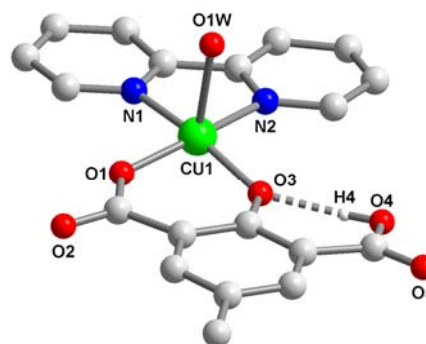


DOI: 10.33224/rch.2021.66.1.03
Rev. Roum. Chim., **2021**, 66(1), 33-40

Key words: triorganotelluronium cations, hypercoordination,
organophosphorus ligands, structural investigation.

**Paul A. TARABUTA, Catalin MAXIM and
Marius ANDRUH**

Reactions of heteroleptic $[\text{Cu}(\text{acac})(\text{AA})(\text{H}_2\text{O})]^+$
complexes with carboxylate anions (acac⁻ =
acetylacetonate, AA = 2,2'-bipyridine, 1,10-
phenanthroline)

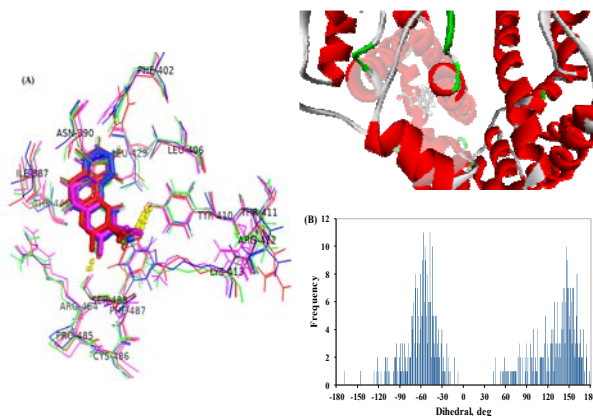


DOI: 10.33224/rch.2021.66.1.04
Rev. Roum. Chim., **2021**, 66(1), 41-47

Key words: copper complexes; mixed-ligand complexes; carboxylate ligands;
coordination polymers.

Aurica PRECUPAS and Sorana IONESCU

Exploring the interaction of 5,6- benzocoumarin-3-
carboxylic acid with bovine serum albumin at the
molecular level: A biophysical investigation using
molecular dynamics

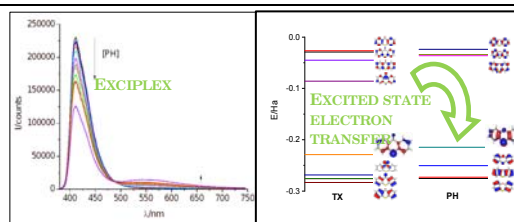


DOI: 10.33224/rch.2021.66.1.05
Rev. Roum. Chim., **2021**, 66(1), 49-58

Key words: molecular dynamics, 5,6- benzocoumarin-3-carboxylic acid,
bovine serum albumin, hydrogen bonds.

Cristina TABLET and Sorana IONESCU

Exciplex formation in the
phenoxathiin-thioxanthone system

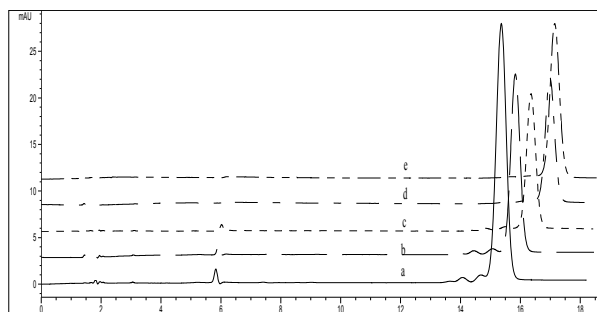


DOI: 10.33224/rch.2021.66.1.06
Rev. Roum. Chim., **2021**, 66(1), 59-63

Key words: exciplex, phenoxathiin, thioxanthone, electron donor-acceptor
systems, excited state electron transfer.

**Elena BACALUM, Toma GALAON,
Victor DAVID and Serban C. MOLDOVEANU**

Peak compression induced by large volume injection of hydrophobic alcohols in reversed-phase liquid chromatography

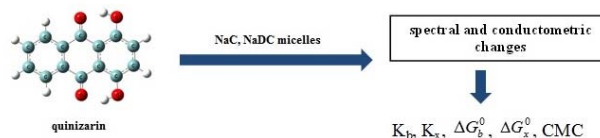


DOI: 10.33224/rch.2021.66.1.07
Rev. Roum. Chim., 2021, 66(1), 65-74

Key words: peak compression, liquid chromatography, reversed-phase mechanism, hydrophobic alcohols, large volume injection.

Ana Maria TOADER and Mirela ENACHE

Quinizarin interaction with bile salts micelles as biomimetic model membranes

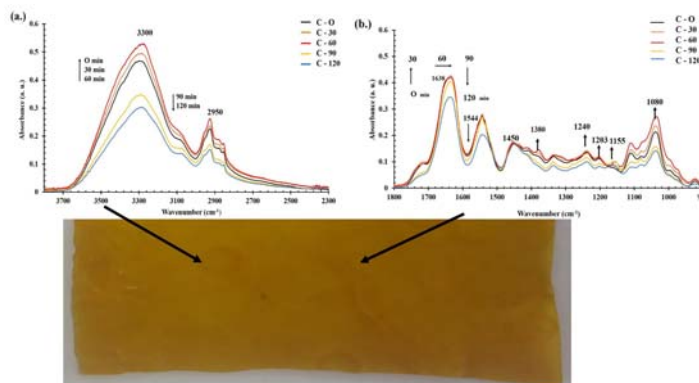


DOI: 10.33224/rch.2021.66.1.08
Rev. Roum. Chim., 2021, 65(1), 75-80

Key words: quinizarin, bile salts, binding constant, partition coefficient.

**Mioara DROBOTĂ,
Mihaela BARBĂLATĂ-MÂNDRU,
Luiza Mădălina GRĂDINARU and
Ionel ALEXA**

Effect of UV irradiation on surface of collagen film

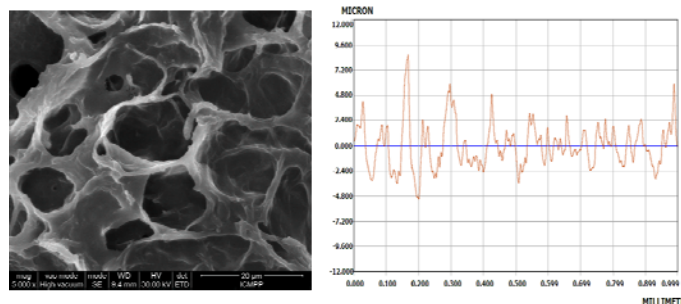


DOI: 10.33224/rch.2021.66.1.09
Rev. Roum. Chim., 2021, 66(1), 81-85

Key words: collagen, surface, UV-irradiation.

**Mihaela BARBALATA-MANDRU,
Maria BERCEA,
Luiza Madalina GRADINARU,
Magdalena AFLORI and Radu ALBULESCU**

Preparation and surface characterization of polyurethane hydrogels



DOI: 10.33224/rch.2021.66.1.10
Rev. Roum. Chim., 2021, 66(1), 87-93

Key words: surface, hydrogel, polyurethane.

