

Contents

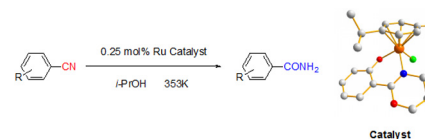
Cover Artwork: Four new copper complexes containing vitamin B₃ type have been synthesized, and evaluated for their antitumor capacity *in vitro* against the Caco-2 cell line. The complex combining vitamin B₃ and 1, 10-phenanthroline is significantly more potent (IC₅₀ of 30 (24–38) μM).

Wei-Guo Jia, Shuo Ling, Shen-Jie Fang and En-Hong Sheng

Polyhedron 138 (2017) 1

Half-sandwich ruthenium complexes with oxygen–nitrogen mixed ligands as efficient catalysts for nitrile hydration reaction

The half-sandwich ruthenium complexes with oxygen–nitrogen mixed ligands are efficiently catalyzed the hydration of nitriles to amides in isopropanol solvents.

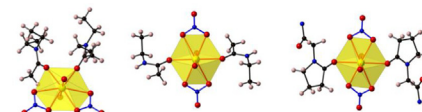


Gaël Loubert, Christophe Volkringer, Natacha Henry, Bénédicte Arab-Chapelet, Thibaud Delahaye and Thierry Loiseau

Polyhedron 138 (2017) 7

Structural studies of a series of uranyl alkylacetamides and piracetam complexes obtained in nitric acid aqueous solution

Three coordination complexes have been prepared from the slow evaporation of aqueous nitric acid (0.5 M) solution of uranyl nitrate with N',N'-diethylacetamide (1), N-ethylacetamide (2) and piracetam (3) ligands. Their crystal structure characterization shows discrete molecular units based on the uranyl centered hexagonal bipyramids, with two chelating nitrate groups and two amide oxo groups located in the equatorial plane of the coordination polyhedron.

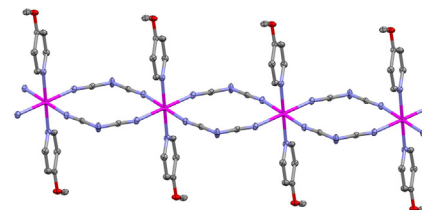


Franz A. Mautner, Magdalena Traber, Roland C. Fischer, Salah S. Massoud and Ramon Vicente

Polyhedron 138 (2017) 13

Synthesis, crystal structures, spectral and magnetic properties of 1-D polymeric dicyanamido-metal(II) complexes

Five 1-D polymeric dicyanamido metal(II) complexes with 4-hydroxymethylpyridine and 4-methoxypyridine as co-ligands were synthesized, structurally characterized, and their magnetic properties were investigated.

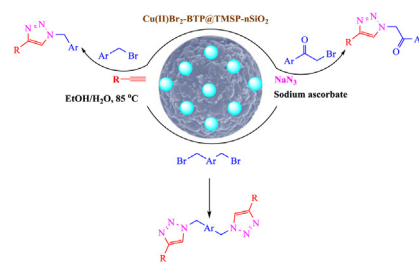


Zahra Dehbanipour, Majid Moghadam, Shahram Tangestaninejad, Valiollah Mirkhani and Iraj Mohammadpoor-Baltork

Polyhedron 138 (2017) 21

Copper(II) bis-thiazole complex immobilized on silica nanoparticles: Preparation, characterization and its application as a highly efficient catalyst for click synthesis of 1,2,3-triazoles

Preparation, characterization and application of a copper(II) bis-thiazole complex supported on nanosilica in the synthesis of triazoles is reported.

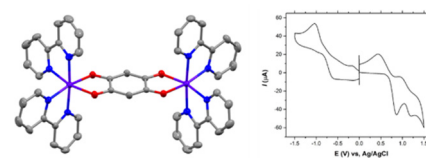


Narayan Ch. Jana, Paula Brandão, Amrita Saha and Anangamohan Panja

Polyhedron 138 (2017) 31

Synthesis, crystal structure and electronic property of a tetraoxolene bridged dinuclear cobalt(II) complex with bipyridyl blocking ligand

Syntheses, crystal structures and electrochemical property of three isomorphous new tetraoxolene bridged dinuclear cobalt(II) compounds with bipyridyl blocking ligands from three different solvents were reported. An extensive effort has been made to visualize the noncovalent interactions in the solid state. Electrochemical studies were also carried out to realize the electronic flexibility in these complexes.



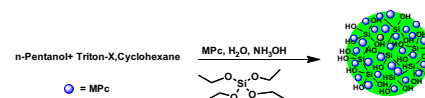
Structures and electrochemistry

Siwaphiwe Peteni, Kutloano Edward Sekhosana, Jonathan Britton and Tebello Nyokong

Polyhedron 138 (2017) 37

Effects of charge on the photophysical properties of zinc phthalocyanine derivatives doped onto silica nanoparticles

When encapsulated onto silica nanoparticles, the increase in triplet quantum singlet oxygen quantum yields of the zinc phthalocyanine depended on the charge, with the positively charged derivatives showing improvement in both parameters.

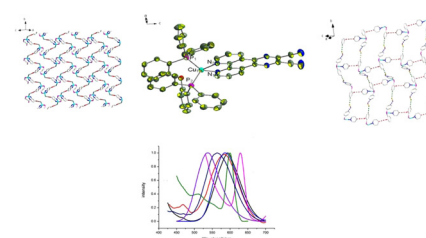


Yan-Ru Zhang, Xiao Yu, Sen Lin, Qiong-Hua Jin, Yu-Ping Yang, Min Liu, Zhong-Feng Li, Cun-Lin Zhang and Xiu-Lan Xin

Polyhedron 138 (2017) 46

Seven copper (I) complexes of diphosphine ligands and N[^]N ligands: Syntheses, structural characterizations and spectroscopic properties

Seven copper complexes with diphosphine ligands and N[^]N ligands have been synthesized. These complexes were investigated by elemental analysis, single-crystal X-ray diffraction, fluorescence spectroscopy, ¹H NMR spectroscopy and THz spectroscopy.



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