

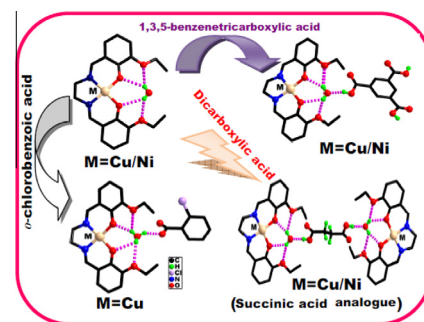
Contents

Sagar Ghosh, Leena Mandal and Sasankasekhar Mohanta

Polyhedron 97 (2015) 1

Exploration of weak interaction directed self-assemblies on reacting mononuclear copper(II)/nickel(II)-water host-guest systems of a double-compartment ligand with mono/di/tricarboxylic acids

The mononuclear host-guest systems $[M^{II}L^{OEt-en}(H_2O)]$ ($M = Cu/Ni$; $H_2L^{OEt-en} = N,N'$ -ethylenebis(3-ethoxysalicylaldehyde)) are treated with *o*-chlorobenzoic acid, fumaric acid, succinic acid, terephthalic acid and 1,3,5-benzenetricarboxylic acid to produce eight weak interaction directed 1-D/2-D/3-D self-assemblies. The basic units of the self-assemblies are the 2:1 adducts $[\{M^{II}L^{OEt-en}(H_2O)\}_2(dicarboxylic\ acid)]$, 1:1 adducts $[\{M^{II}L^{OEt-en}(H_2O)\}(1,3,5\text{-benzenetricarboxylic\ acid})]$ and 1:1 adduct $[\{Cu^{II}L^{OEt-en}(H_2O)\}(o\text{-chlorobenzoate})]$.

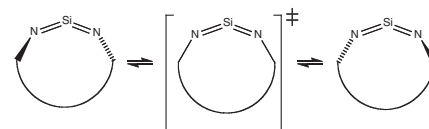


Robert Damrauer

Polyhedron 97 (2015) 13

Computational studies of silanediimine rings

This paper investigates how a series of alicyclic silanediimine transition states undergo stereoisomerization to either their enantiomeric or diastereomeric pairs. This illustration shows the formation of an enantiomeric pair.

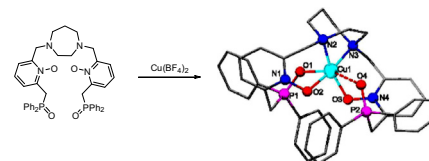


Sabrina Ouizem, Daniel Rosario Amorin, Diane A. Dickie, Roger E. Cramer, Charles F. Campana, Benjamin P. Hay, Julien Podair, Laetitia H. Delmau and Robert T. Paine

Polyhedron 97 (2015) 20

Synthesis, selected coordination chemistry and extraction behavior of a (phosphinoylmethyl)-pyridyl N-oxide-functionalized ligand based upon a 1,4-diazepane platform

New pre-organized, hexadentate chelating phosphinoylmethyl pyridine and -pyridine N-oxide ligands, based upon a 1,4-diazepane platform, form stable complexes with Ln(III) and Cu(II) ions. Solvent extraction analyses for Eu(III) and Am(III) in nitric acid with the pyridine N-oxide derivative show improved performance, at the highest nitric acid concentrations, compared to the parent bidentate phosphinoylmethyl pyridine N-oxide ligand.

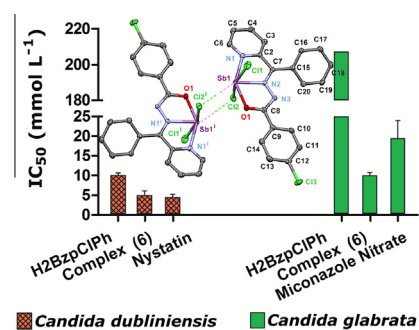


Elisa D.L. Piló, Angel A. Recio-Despaigne, Jeferson G. Da Silva, Isabella P. Ferreira, Jaqueline A. Takahashi and Heloisa Beraldo

Polyhedron 97 (2015) 30

Effect of coordination to antimony(III) on the antifungal activity of 2-acetylpyridine- and 2-benzoylpyridine-derived hydrazones

[Sb(2BzpClPh)Cl₂], complex (6), was as active as nystatin and twofold more active than the free hydrazone H2BzpClPh against *Candida dubliniensis*. While H2BzpClPh proved to be inactive against *Candida glabrata*, complex (6) was more active than miconazole nitrate.

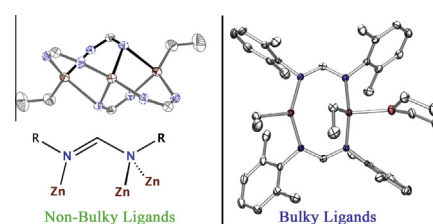


Yi-Ju Tsai, Wenfeng Lo and Qinliang Zhao

Polyhedron 97 (2015) 39

Ligand control in nuclearity of Zn complexes supported by formamidinates

It was found that the steric properties of *N,N'*-diarylformamidinates controlled the geometry and nuclearity of the Zn products. Increase in steric demands of the ligands decreased the complex nuclearity from three to two. Ligands in the trinuclear clusters resided in non-symmetric coordination modes in both solid state and solution phase.

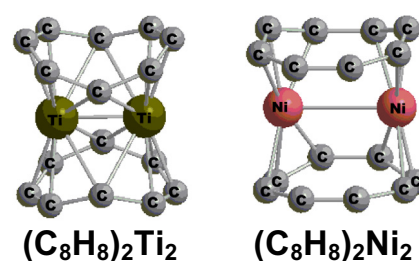


Hongyan Wang, Hui Wang and R. Bruce King

Polyhedron 97 (2015) 47

The binuclear cyclooctatetraene sandwich compounds (C₈H₈)₂M₂ of the first row transition metals: Analogues of the perpendicular dimetalloenes

Perpendicular sandwich structures were found for (C₈H₈)₂M₂ (M = Ti, V, Cr, Mn, Fe, Co, Ni). The early transition metal derivatives (Ti→Mn) contain at least one bis(penta-hapto) η⁵,η⁵-C₈H₈ ring. However, bis(tri-hapto) η³,η³-C₈H₈ rings with one uncomplexed C=C double bond are preferred for the late transition metals Fe→Ni.

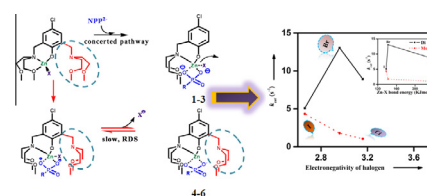


Ria Sanyal, Prateeti Chakraborty, Ennio Zangrando and Debasis Das

Polyhedron 97 (2015) 55

Phosphatase models: Synthesis, structure and catalytic activity of zinc complexes derived from a phenolic Mannich-base ligand

Six di- and mononuclear zinc complexes (1–6), synthesised with phenolic Mannich ligands, showed excellent phosphatase activity and their mechanistic pathway was elucidated on the basis of ESI-MS study.



Download English Version:

<https://daneshyari.com/en/article/1335183>

Download Persian Version:

<https://daneshyari.com/article/1335183>

[Daneshyari.com](https://daneshyari.com)