

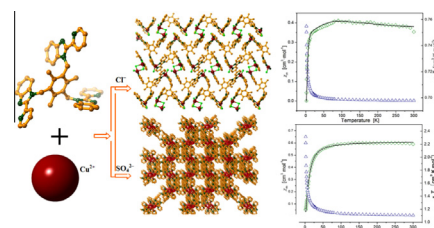
Contents

Jiyong Hu, Hongchang Yao, Yun Bai, Dandan Zhao, Shufang Chen and Jin'an Zhao

Polyhedron 78 (2014) 1

Multinuclear-based copper coordination architectures constructed from pyridyl-1H-benzimidazol-derived flexible tripodal connector and the magnetic behaviors

Two multinuclear-based copper complexes based on a tripodal flexible ligand with multidentate branched N-containing domains have been constructed under the solvothermal reaction. Upon decreasing the temperature, the $\chi_m T$ value of complex **1** first increases gradually to a maximum at 82 K and then decreases until 1.8 K. While the sample of **2** is cooled, the feature of $\chi_m T$ value exhibits antiferromagnetic interactions between Cu(II) centers.

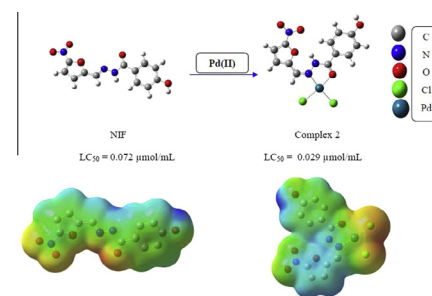


Ahmed M. Mansour

Polyhedron 78 (2014) 10

Synthesis, spectroscopic, electrochemical, DFT and SAR studies of nifuroxazide complexes with Pd(II), Pt(II) and Ru(II)

Coordination of nifuroxazide drug to Pd(II) ion led to important increase in its antibacterial activity. Toxicity can be related to charge sign and surface map value of the nitro group.

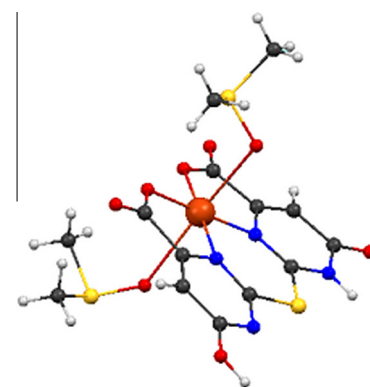


I. Papazoglou, A.G. Papadopoulos, S. Skoulika, K. Lafazanis, G.D. Geromichalos, A.A. Pantazaki and P. Aslanidis

Polyhedron 78 (2014) 18

Metal-assisted desulfurization of 2-thioorotic acid: Structure, theoretical (DFT) investigations, *in vitro* antibacterial and cytotoxic activity and DNA degradation ability of a copper(II) complex containing *in situ* formed bis(4-carboxylato-6-oxo-pyrimidine-2-yl)sulfide

Treatment of a dimethylsulfoxide solution of 2-thioorotic acid with copper(I) halides results in the formation of the $[\text{Cu}(\text{L})(\text{DMSO})_2]$ complex, where L is the tetradentate N,O-donor ligand bis(4-carboxylato-6-oxo-pyrimidine-2-yl)sulfide dianion formed *in situ* by metal-assisted desulfurization of 2-thioorotic acid. The new compound was evaluated for its *in vitro* antibacterial activity, DNA degradation activity and for its efficacy as anticancer agent against different cancer and normal human and murine cell lines.

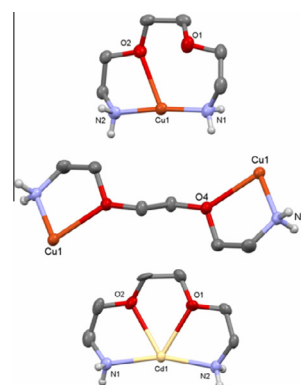


Ahmet Karadağ, Ayşe Keskin Gözüaçık, Veysel T. Yılmaz, Yusuf Yerli and Ertan Şahin

Polyhedron 78 (2014) 24

Coordination versatility of 2,2'-(ethylenedioxy) bis(ethylamine) in new mono- and polynuclear metal(II) complexes of saccharinate: Synthesis, characterization and crystal structures

Four novel complexes of the composition $[\text{Ni}(\text{edbea})(\text{sac})_2] \cdot 2\text{H}_2\text{O}$ (**1**), $[\text{Cu}(\text{edbea})(\text{sac})_2]$ (**2**), $[\text{Cu}(\mu\text{-edbea})(\text{sac})_2]_n$ (**3**) and $[\text{Cd}(\text{edbea})_2](\text{sac})_2$ (**4**) {edbea = 2,2'-(ethylenedioxy)bis(ethylamine), $\text{C}_6\text{H}_{16}\text{N}_2\text{O}_2$ } have been synthesized and characterized by various techniques.



Anna Adach, Marek Daszkiewicz, Maria Cieślak-Golonka, Tomasz Misiaszek and Danuta Grabka

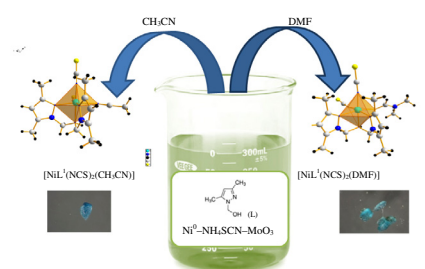
Polyhedron 78 (2014) 31

In situ synthesis of scorpion-like complexes isolated from the system containing zerovalent nickel

Two novel complexes $[\text{NiL}^1(\text{NCS})_2\text{CH}_3\text{CN}]$ (**1**), $[\text{NiL}^1(\text{NCS})_2\text{DMF}]$ (**2**) (L^1 -N,N-bis(1-(3,5-dimethylpyrazolyl)methyl)amine)) have been isolated in one pot synthesis from the system containing zerovalent nickel powder, 1-hydro-

xymethyl-3,5-dimethylpyrazole (L), MoO_3 , and NH_4SCN as a substrates.

The heteroleptic, mononuclear Ni(II) complexes contain not only a scorpion-like ligand (L^1) but also monodentate NCS^- ions and solvent molecules (CH_3CN and DMF) in the coordination sphere. Ligand L^1 , a product of condensation of L, was formed *in situ* during redox processes.

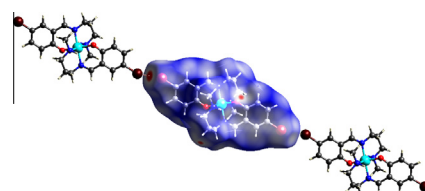


Anik Bhattacharyya, Prasanta Kumar Bhaumik, Partha Pratim Jana and Shouvik Chattopadhyay

Polyhedron 78 (2014) 40

Anion mediated diversity in the nuclearity of nickel(II) complexes with a N_2O donor Schiff base: Formation of a supra-molecular chain via $\text{Br} \cdots \text{Br}$ interactions

Two nickel(II) complexes were synthesised with a tridentate N_2O donor Schiff base. Presence of azide in the reaction medium favored the formation of a double end-on azide bridged centrosymmetric dinuclear complex. In absence of azide, a bis-ligand complex was produced. $\text{Br} \cdots \text{Br}$ interaction created a one-dimensional supra-molecular chain in one of the complexes.

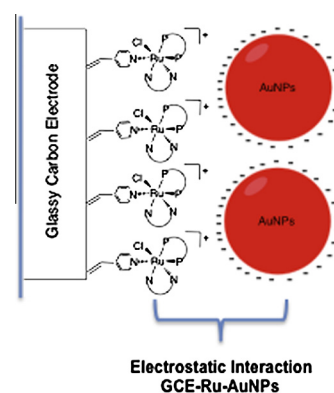


Vanessa F. Ferreira, Cássio R.A. Do Prado, Carolina M. Rodrigues, Larissa Otubo, Alzir A. Batista, José W. da Cruz Jr., Javier Ellena, Luís R. Dinelli and André L. Bogado

Polyhedron 78 (2014) 46

Modified glassy carbon electrode with AuNPs using $\text{cis-}[\text{RuCl}(\text{dppb})(\text{bipy})(4\text{-vpy})]^+$ as crossed linking agent

The interaction among ruthenium cationic complexes and gold nanoparticles (AuNPs $^-$) were accompanied by SEM-EDS and TEM-EDS measurements, indicating to be electrostatic interactions. Therefore it was used to add AuNPs on the surface of glassy carbon electrode, without Au-S covalent bond, using the $[\text{RuCl}(\text{dppb})(\text{bipy})(4\text{-vpy})]^+$, such as crossed linking agent.



Download English Version:

<https://daneshyari.com/en/article/1337815>

Download Persian Version:

<https://daneshyari.com/article/1337815>

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