

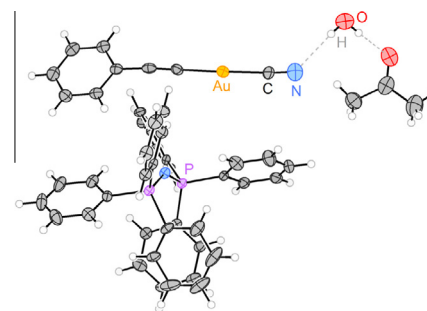
Contents

Ali Alsalmeh, Mohammed Jaafar, Xue Liu, Fabian Dielmann, F. Ekkehardt Hahn, Khalid Al-farhan and Jan Reedijk

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Synthesis, structure and spectroscopic properties of bis(triphenylphosphane)iminium (phenylacetylido)(cyanido)aurate(I) monoacetone monohydrate, $(PPN)[Au(C\equiv N)(C\equiv C-C_6H_5)]\cdot H_2O\cdot (CH_3)_2CO$ and bis(triphenylphosphane)iminium (*t*-butylacetylido)(cyanido)aurate(I) monohydrate, $(PPN)[Au(C\equiv N)(C\equiv C-C_4H_9)]\cdot H_2O$

Two new ionic compounds are reported containing (acetylido)(cyanido)aurate(I) anions, and bis(triphenylphosphane)iminium cations.

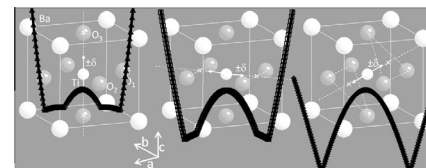


Manuel Gaudon

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Out-of-centre distortions around an octahedrally coordinated Ti^{4+} in $BaTiO_3$

Double well potential associated to various Ti^{4+} out-of-centre distortions in $BaTiO_3$.

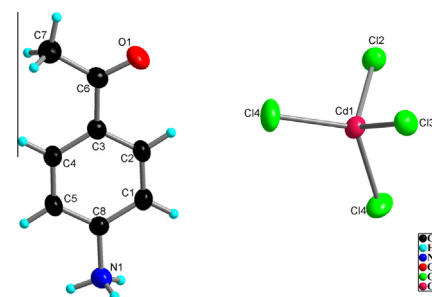


A. Jellibi, I. Chaabane and K. Guidara

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Structural characterization and dielectric properties of bis(4-acetylanilinium) tetrachlorocadmiate, $[C_8H_{10}NO]_2[CdCl_4]$

A new organic–inorganic compound, bis(4-acetylanilinium) tetrachlorocadmiate, has been synthesized and characterized by single-crystal X-ray diffraction, thermal analysis and dielectric measurements. The title compound crystallizes at room temperature in the orthorhombic system (*Cmca* space group) with the following unit cell parameters: $a = 19.9803(5)$ Å, $b = 15.3829(3)$ Å, $c = 13.8168(3)$ Å and $Z = 8$.

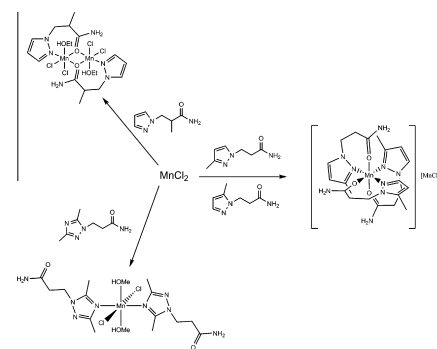


David J. D'Amico, Michael A. McDougal, Donna S. Amenta, John W. Gilje, Sida Wang, Cristian G. Hrib and Frank T. Edelmann

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Synthesis and supramolecular structures of manganese complexes with *N*-pyrazolylpropanamide-derived ligands

The reaction of a series of multifunctional acrylamide-derived ligands with MnCl_2 yields complexes with varied modes of ligand attachment. Both the ligands and the complexes exhibit extensive hydrogen bonding.

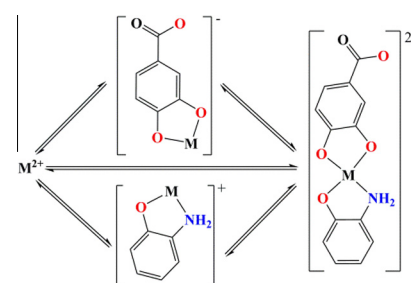


Ivon Kusmijo Chandra, Artik Elisa Angkawijaya, Shella Permatasari Santoso, Suryadi Ismadji, Felycia Edi Soetaredjo and Yi-Hsu Ju

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Solution equilibria studies of complexes of divalent metal ions with 2-aminophenol and 3,4-dihydroxybenzoic acid

The chelation ability of two biologically active ligands (2-aminophenol and 3,4-dihydroxybenzoic acid) against several divalent metal ions was studied. Based on their overall formation constants, both ligands were found capable of forming stable chelates with the metal ions, especially 3,4-dihydroxybenzoic acid via its two adjacent oxygen donor atoms.

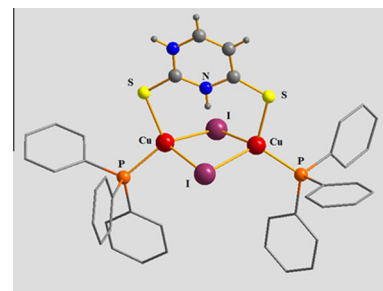


D. Varna, A.G. Hatzidimitriou, E. Velali, A.A. Pantazaki and P. Aslanidis

Polyhedron 88 (2015) 40

Structural diversity in dinuclear copper(I) halide complexes of 2,4-dithiouracil: Synthesis, crystal structures, induction of DNA damage and oxidative stress mediated by ROS

Three dinuclear copper(I) halide complexes containing 2,4-dithiouracil and triphenylphosphine with different bridging motifs, namely doubly bridged $[\text{Cu}_2(\mu\text{-Cl})(\mu\text{-S,S-dtucH})(\text{PPh}_3)_4]$, single bridged $[\text{Cu}_2\text{Br}_2(\mu\text{-S,S-dtucH}_2)(\text{PPh}_3)_4]$ and triply bridged $[\text{Cu}_2(\mu\text{-I})_2(\mu\text{-S,S-dtucH}_2)(\text{PPh}_3)_2]$ were isolated and structurally characterized. The compounds were also screened for their ability to interact with CT-DNA *in vitro* and to produce reactive oxygen species (ROS).

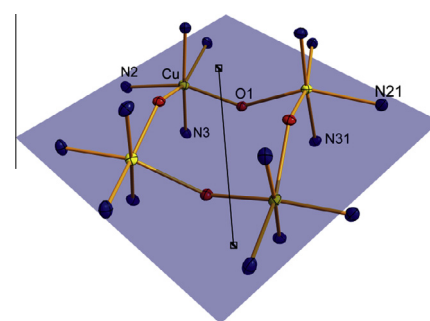


Rahman Bikas, Hassan Hosseini-Monfared, Pavlo Aleshkevych, Ritta Szymczak, Milosz Siczek and Tadeusz Lis

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Single crystal EPR spectroscopy, magnetic studies and catalytic activity of a self-assembled $[2 \times 2] \text{Cu}^{\text{II}}_4$ cluster obtained from a carbohydrazone based ligand

The synthesis and structure of a new tetranuclear cluster of $\text{Cu}(\text{II})$ with a symmetric carbohydrazone based ligand is reported. Single crystal EPR studies of the tetranuclear $\text{Cu}(\text{II})$ complex. Magnetic behavior of the tetranuclear $\text{Cu}(\text{II})$ complex. Catalytic behavior of the $\text{Cu}(\text{II})$ complex for the oxidation of cyclooctene.



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