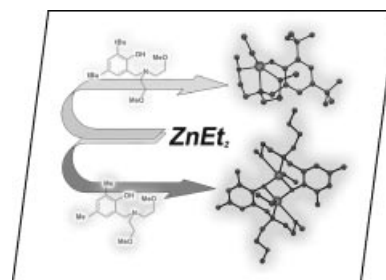


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COVER PICTURE

The cover picture shows the two types of complexes formed by the reaction of diethylzinc and tripodal monoanionic amine mono(phenolate) ligand precursors bearing two methoxy sidearm donors. The ligand precursor bearing bulky (*t*Bu) phenolate substituents leads cleanly to a mono(ethyl) mononuclear zinc complex in which the two methoxy sidearm donors are bound to the metal atom as confirmed by spectroscopic data and X-ray structure analysis. The ligand precursors bearing less bulky phenolate substituents lead cleanly to dinuclear pentacoordinate complexes that are bridged by phenolate oxygen atoms, and only one of the two sidearm donors is bound. Details are discussed in the article by M. Kol et al. on p. 2739 ff.



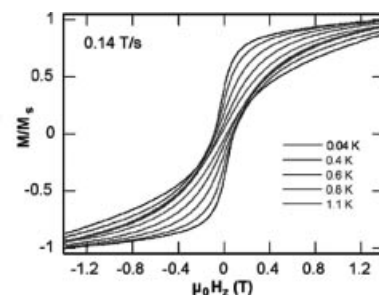
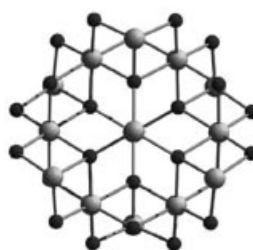
MICROREVIEW

Contents

2725 D. Collison, E. J. L. McInnes,*
 E. K. Brechin*

Tetrahedra, Super-Tetrahedra, Bipyramids,
 Boxes and More: Polymetallic Clusters of Ben-
 zotriazole

Keywords: Benzotriazole / Clusters / Transition
 metals / Large spin ground states / Single-
 molecule magnets



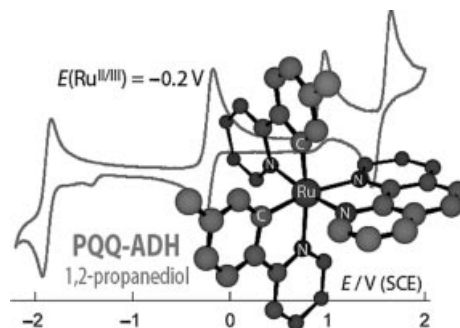
SHORT COMMUNICATIONS

- 2735** R. Le Lagadec, L. Alexandrova, H. Estevez, M. Pfeffer, V. Laurinavičius, J. Razumiene, A. D. Ryabov*



Bis-Ruthena(III)cycles $[\text{Ru}(\text{C}^{\text{N}}\text{N})_2(\text{N}^{\text{N}}\text{N})]\text{PF}_6$ as Low-Potential Mediators for PQQ Alcohol Dehydrogenase ($\text{C}^{\text{N}}\text{N}$ = 2-phenylpyridinato or 4-(2-tolyl)pyridinato, $\text{N}^{\text{N}}\text{N}$ = bpy or phen)

Keywords: Ruthenium / Metallacycles / X-ray diffraction / Biosensors / PQQ dehydrogenase



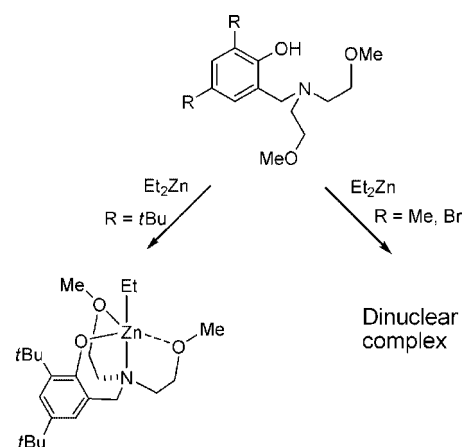
FULL PAPERS

- 2739** S. Groysman, E. Sergeeva, I. Goldberg, M. Kol*



Zinc Complexes of Amine Mono(phenolate) $[\text{NOO}_2]$ Ligands: Controlling Coordination Modes by Bulk of Phenolate Substituents

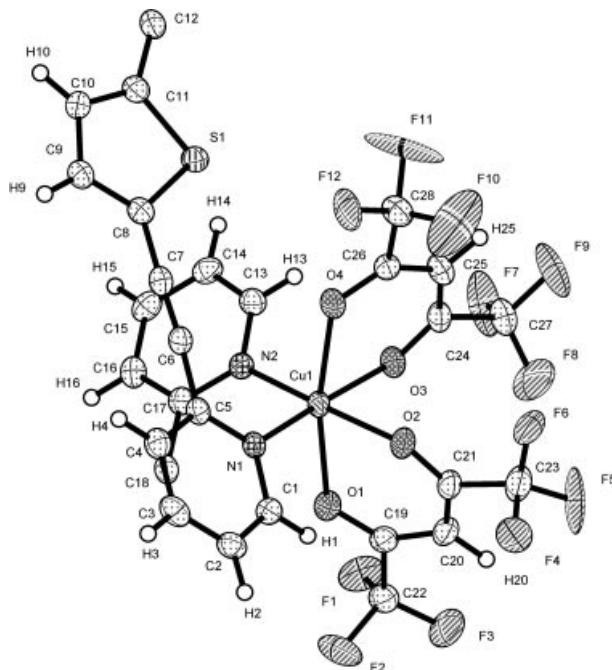
Keywords: Zinc / N,O ligands / Tripodal ligands / Polynuclear complexes



- 2746** S. Delgado,* A. Barrilero, A. Molina-Ontoria, M. E. Medina, C. J. Pastor, R. Jiménez-Aparicio, J. L. Priego

Novel Coordination Polymers Generated from Angular 2,2'-Dipyridyl Ligands and Bis(hexafluoroacetylacetonate) Copper(II): Crystal Structures and Magnetic Properties

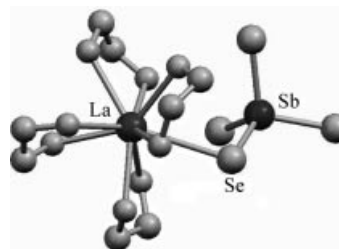
Keywords: Coordination polymers / Copper / N ligands



2760 D.-X. Jia,* Q.-X. Zhao, Y. Zhang, J. Dai, J. Zhou

Solvothermal Synthesis, Crystal Structures, and Properties of New Selenidoantimonates $[\text{Ln}(\text{en})_4(\text{SbSe}_4)]$ ($\text{Ln} = \text{La}, \text{Nd}$) and $[\text{Sm}(\text{en})_4]\text{SbSe}_4 \cdot 0.5\text{en}$: The First Example of an SbSe_4^{3-} Anion Acting as a Ligand to a Lanthanide Complex

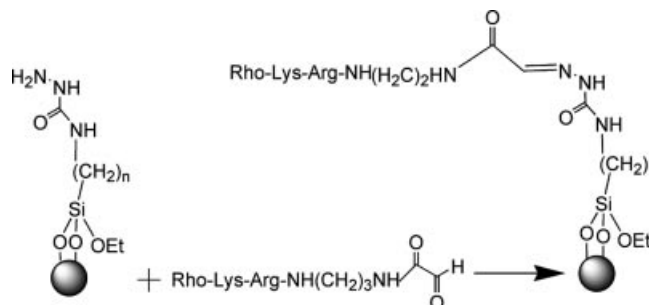
Keywords: Selenidoantimonates / Lanthanides / Antimony / Solvothermal synthesis / Crystal structures



2766 T. Doussineau, J.-O. Durand, O. El-Mahdi, C. Maillet, O. Melnyk, C. Olivier, M. Smaïhi*

Semicarbazide-Functionalized Silicate Nanoparticles for Peptide Ligation

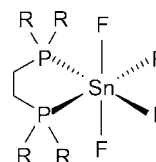
Keywords: Zeolites / Colloids / Peptides / Fluorescence spectroscopy / Organic–inorganic composites



2773 M. F. Davis, M. Clarke, W. Levason,* G. Reid, M. Webster

Tin(IV) Fluoride Complexes with Tertiary Phosphane Ligands – A Comparison of Hard and Soft Donor Ligands

Keywords: Tin / Fluoride / Phosphane / Multinuclear NMR / Crystal structures

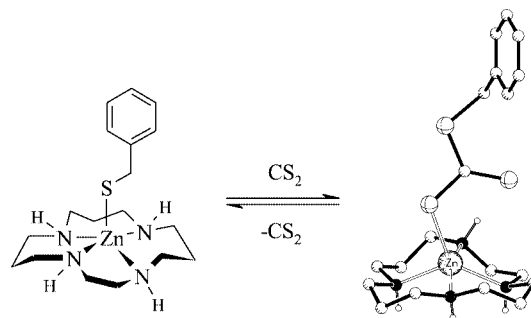


2783 J. Notni, S. Schenk, A. Roth, W. Plass, H. Görls, U. Uhlemann, A. Walter, M. Schmitt, J. Popp, S. Chatzipapadopoulos, T. Emmeler, H. Breitzke, J. Leppert, G. Buntkowsky, K. Kempe, E. Anders*



Zinc Thiolate Complexes $[\text{ZnL}_n(\text{SR})]^+$ with Azamacrocyclic Ligands, Part II: Mechanism of the Reaction with CS_2

Keywords: Zinc / Macrocyclic ligands / Enzyme models / Heterocumulenes / Density functional calculations

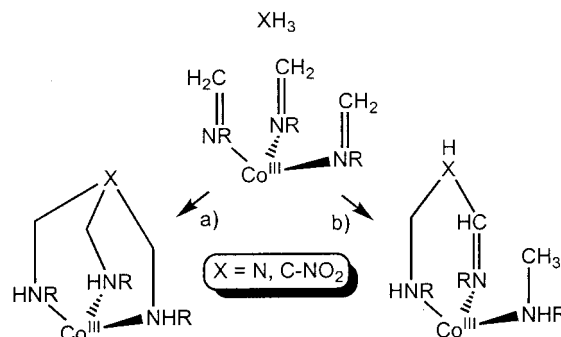


2792 D. Kuppert, P. Comba, K. Hegetschweiler*



The Reactivity of Hexa(*N*-methylideneimine)- Co^{III} Complexes towards Nucleophiles: Structure and Mechanism

Keywords: Nucleophilic addition / Hydrogen transfer / N ligands / Cobalt / Chelates



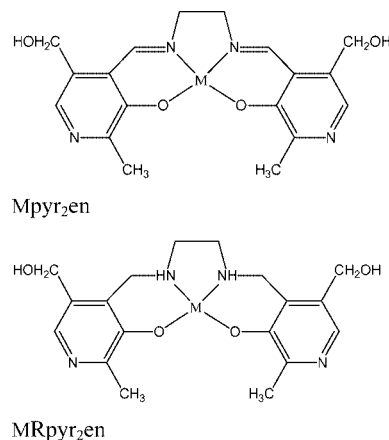
A Theoretical Study on Structures, Bonding Energies and Aromaticity of Two New Series of Dinuclear Phosphametalloenes: $(\eta^5\text{-P}_5)\text{MM}'\text{-(}\eta^5\text{-P}_5\text{)}$ and $(\eta^5\text{-C}_5\text{H}_5)\text{MM}'(\eta^5\text{-P}_5)$ ($\text{M}, \text{M}' = \text{Zn}, \text{Cd}$)

Keywords: Dinuclear phosphametalloenes / Structures / Bonding energies / Aromaticity / Density functional theory



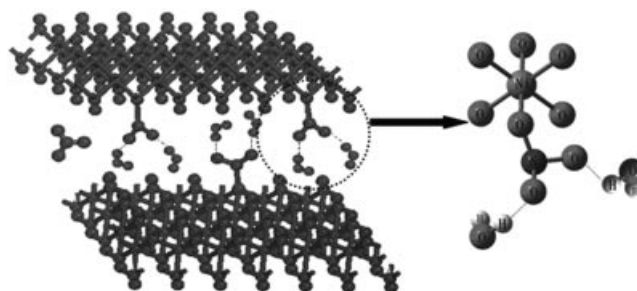
Water-Soluble Sal_2en - and Reduced Sal_2en -Type Ligands: Study of Their Cu^{II} and Ni^{II} Complexes in the Solid State and in Solution

Keywords: Copper(II) / Nickel(II) / Reduced Schiff bases / Speciation / Crystal structure



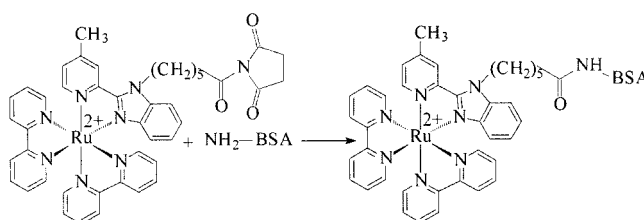
Study on the Photochromism of Ni–Al Layered Double Hydroxides Containing Nitrate Anions

Keywords: Layered compounds / Photochromism / Host–guest systems



Synthesis, Electrochemical and Electrogenenerated Chemiluminescence Studies of Ruthenium(II) Bis(2,2'-bipyridyl){2-(4-methylpyridin-2-yl)-benzo[d]-X-azole} Complexes

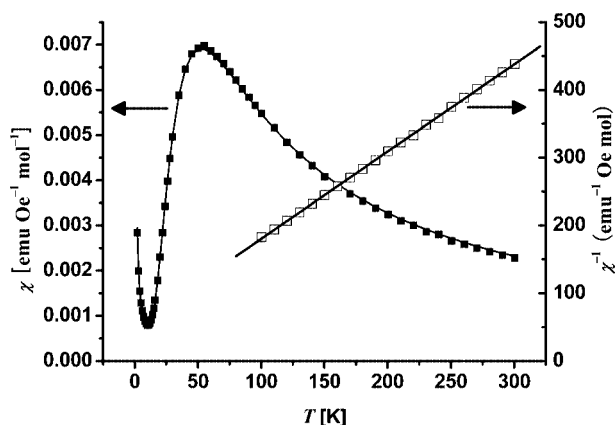
Keywords: Electrochemistry / Luminescence / Ruthenium / ECL / Bioinorganic chemistry



2850 S.-H. Yang, G.-B. Li,* S.-J. Tian,
F.-H. Liao, J.-H. Lin

Synthesis, Structure, and Magnetic Properties of Hydroxo-Bridged Vanadium Oxalate $V_2O_2(OH)_2(C_2O_4)(H_2O)_2$

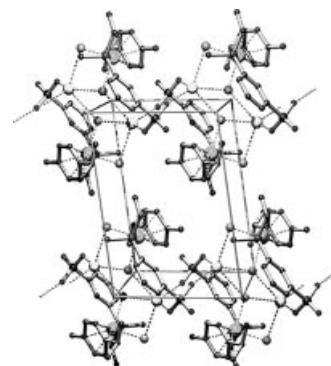
Keywords: Vanadium / Bridging ligands / Magnetic properties / Dimers / Oxalates



2855 J. Díez, M. P. Gamasa, E. Lastra,*
A. García-Fernández, M. P. Tarazona

Transfer Hydrogenation of Ketones Catalysed by New Half-Sandwich Ruthenium(II) Complexes Bearing the Sulfonated Phosphane (*meta*-Sulfonatophenyl)diphenylphosphane Potassium Salt (TPPMS)

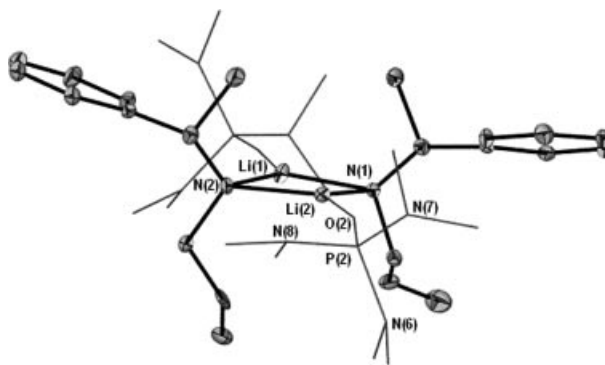
Keywords: Water-soluble catalysts / Sulfonated phosphanes / Arene complexes / Ruthenium(II) / Hydrogen transfer



2865 P. C. Andrews,* M. Minopoulos,
E. G. Roberston

Coordination and Reduction of HMPA in the Lithiation of (*S*)-*N*-(α -Methylbenzyl)allylamine: Crystal Structures of $\{(S)\text{-}\alpha\text{-[PhC(H)CH}_3\text{](CH}_2\text{CH=CH}_2\text{)NLi}\cdot\text{HMPA}\}_2$ and $[(\text{Me}_2\text{N})_2\text{POLi}]_6$

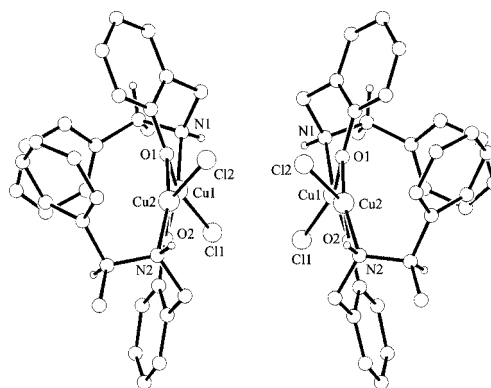
Keywords: Lithium / Chiral metal amides



2871 V. K. Muppidi, S. Pal*

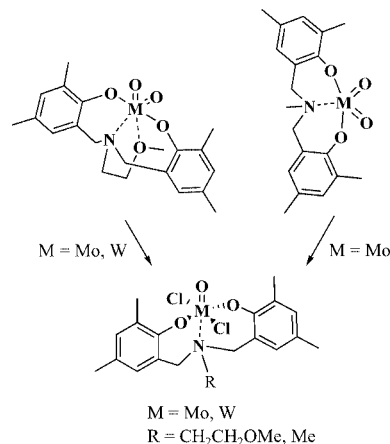
Dicopper(II) Complexes with the Enantiomers of a Bidentate Chiral Reduced Schiff Base: Inclusion of Chlorinated Solvents and Chiral Recognition of 1,2-Dichloroethane Rotamers in the Crystal Lattice

Keywords: Dicopper(II) complexes / Chiral reduced Schiff Bases / Crystal structures / Chlorinated solvents / Enantioselective inclusion





Reactions of Aminobis(phenolate)-Supported Dioxidotungsten(VI) and Dioxidomolybdenum(VI) Complexes

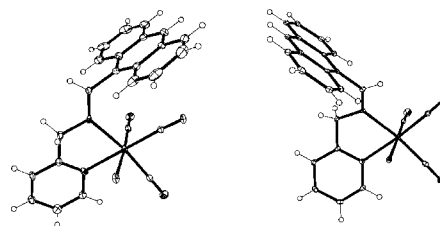


Keywords: Molybdenum / Tungsten / Oxido ligands / N,O ligands / Halides

2885 C. Garino, S. Ghiani, R. Gobetto, C. Nervi,*
L. Salassa, G. Croce, M. Milanesio,
E. Rosenberg,* J. B. A. Ross



Tricarbonylchlororhenium(I) Carboxaldimine Derivatives: Synthesis, Structure, and NMR Characterization of *Z* and *E* Isomers

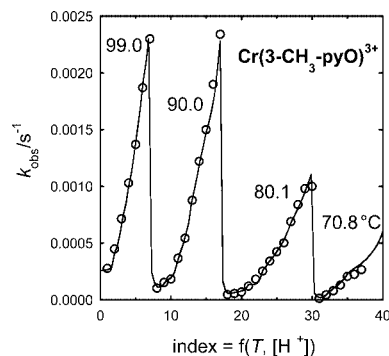


Keywords: *E/Z* isomerization / Density functional calculations / N ligands / Rhenium

2894 M. Kotowski, R. Marcec, V. Butkovic,
A. Bakac,* M. Orhanovic



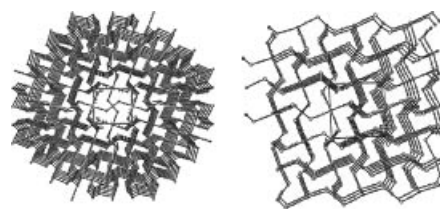
Preparation, Characterization, and Aquation Kinetics of Pyridine *N*-Oxide Complexes of Chromium(III)



Keywords: Pyridine oxide / Chromium / Kinetics / Mechanism / Aquation

2900 S.-L. Li, J.-Y. Wu, Y.-P. Tian,* H. Ming,
P. Wang, M.-H. Jiang, H.-K. Fun

Design, Crystal Growth, Characterization, and Second-Order Nonlinear Optical Properties of Two New Three-Dimensional Coordination Polymers Containing Selenocyanate Ligands



Keywords: Self-assembly / Coordination polymer / Crystal growth / Nonlinear optical properties