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COVER PICTURE

The cover picture shows a mixed metal $\text{Mn}_6\text{Ni}_{12}$ compound that results when manganese(II) and nickel(II) precursor building blocks are allowed to self-assemble. The resulting structure contains a trigonal-prismatic central framework portion made up by linking six manganese(II) coordination compound precursors with meridionally arranged labile water ligands, which are replaced here by linking carboxylate units. This framework is decorated with three self-assembled nickel(II) acetate/methoxide cubane units. The overall structure is similar to a wind turbine having a hexanuclear manganese spindle with the nickel cubanes as blades. The synthetic strategy is a promising means for obtaining high-nuclearity heterometallic assemblies with interesting magnetic properties. Details of this work are described in the Short Communication by A. K. Powell et al. on p. 1927 ff.



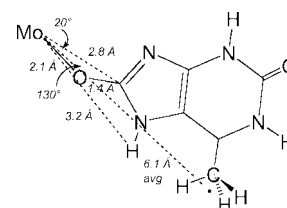
MICROREVIEW

Contents

1913 R. Hille*

Structure and Function of Xanthine Oxidoreductase

Keywords: Bioinorganic chemistry / Enzymes / Molybdenum / Xanthine / Oxidoreductase



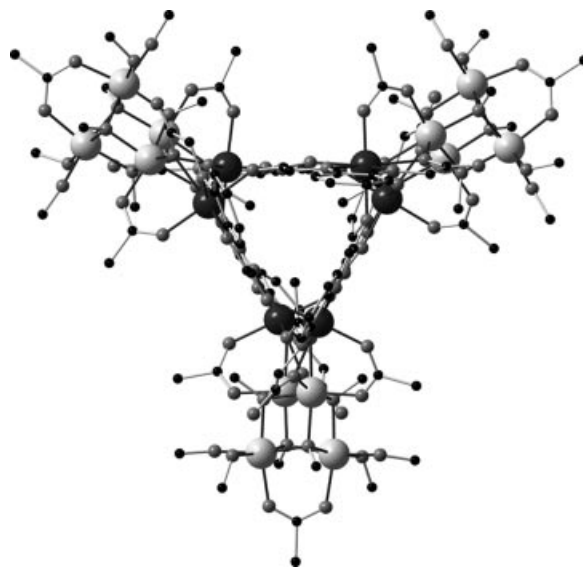
SHORT COMMUNICATIONS

- 1927** G. Wu, R. Clérac, W. Wernsdorfer,
S. Qiu,* C. E. Anson, I. J. Hewitt,
A. K. Powell*



The “Building-Block” Assembly of a $[\text{Ni}_{12}\text{Mn}_6]$ Aggregate

Keywords: Cluster compounds / Carboxylate ligands / Cooperative effects / Nickel / Manganese

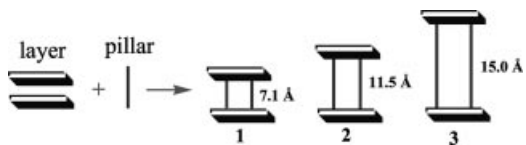


- 1931** C.-J. Li, S. Hu, W. Li, C.-K. Lam,
Y.-Z. Zheng, M.-L. Tong*



Rational Design and Control of the Dimensions of Channels in Three-Dimensional, Porous Metal-Organic Frameworks Constructed with Predesigned Hexagonal Layers and Pillars

Keywords: Cobalt / Microporous / MOFs / Imidazole-4,5-dicarboxylate / Pillar / Magnetism

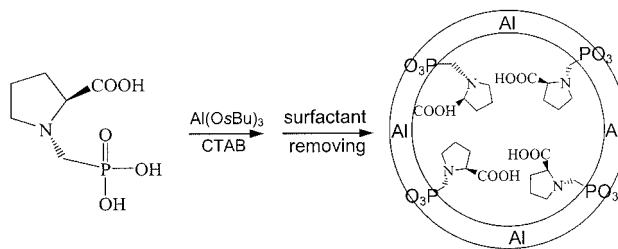


- 1936** X. Shi, J. Yang, Q. Yang*



Mesoporous Aluminium Organophosphonates Functionalized with Chiral L-Proline Groups in the Pore

Keywords: Chiral / Mesoporous compounds / Aluminium organophosphonates

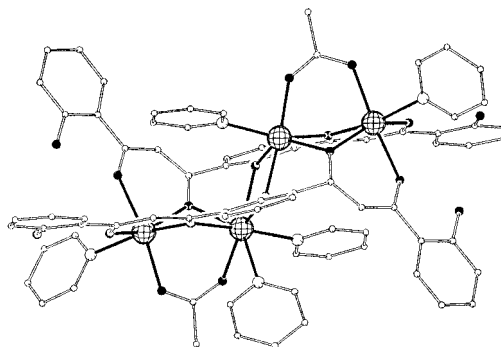


- 1940** G. Aromí,* P. Gamez, C. Boldron,
H. Kooijman, A. L. Spek, J. Reedijk



A Zig-Zag $[\text{Mn}^{\text{II}}_4]$ Cluster from a Novel Bis(β -diketonate) Ligand

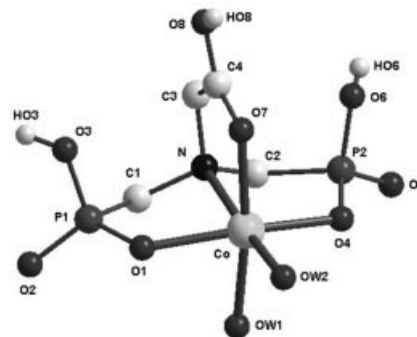
Keywords: Ligand design / O ligands / NMR spectroscopy / Magnetism / Mn



1945 A. Mateescu, C. P. Raptopoulou, A. Terzis, V. Tangoulis, A. Salifoglou*

pH-Specific Synthesis and Structural and Spectroscopic Characterization of a Complex between Co^{II} and *N,N*-Bis(phosphonomethyl)-glycine: Cobalt–Phosphonate Interactions in the Solid State and in Solution

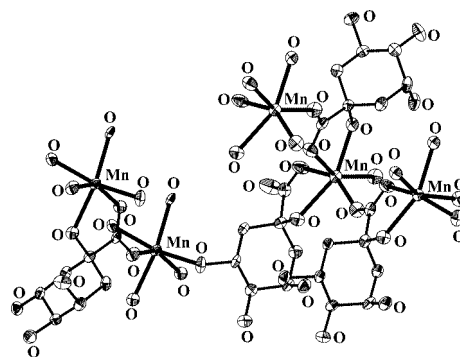
Keywords: Cobalt / Magnetic properties / Materials science / Phosphonates / Structural speciation



1957 M. Menelaou, C. P. Raptopoulou, A. Terzis, V. Tangoulis, A. Salifoglou*

In Search of Binary Hybrid Systems in Manganese Chemistry: The Synthesis, Spectroscopic and Structural Characterization, and Magnetic Properties of a New Species in the Aqueous Mn^{II} -Quinic System

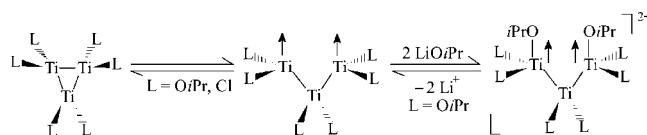
Keywords: Manganese / Structural speciation / Mn^{II} -quininate interactions / Magnetic properties / Hybrid materials



1968 J. J. Eisch,* J. N. Gitua, D. C. Doetschman

Direct Epimetallation of π -Bonded Organic Substrates with Titanium(II) Isopropoxide: Intermediacy of Biradical, Oligomeric Titanium(II) Reagents

Keywords: Titanium(II) / EPR determination of biradicals / Titanium(II) isopropoxide trimer / Epititanation / Nonstereochemical Ti^{II} additions

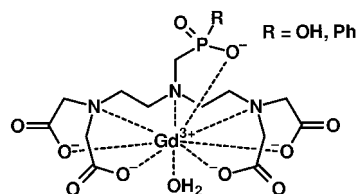


1976 J. Kotek,* F. K. Kálmán, P. Hermann, E. Brücher, K. Binnemans, I. Lukeš



Study of Thermodynamic and Kinetic Stability of Transition Metal and Lanthanide Complexes of DTPA Analogues with a Phosphorus Acid Pendant Arm

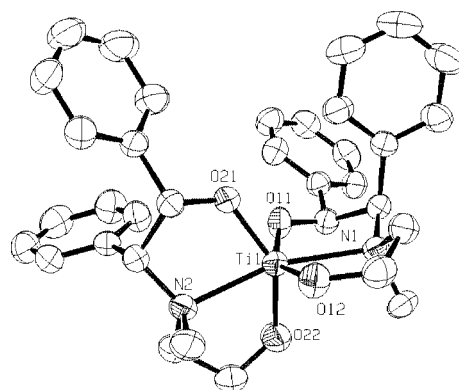
Keywords: Phosphonate complexes / Phosphinate complexes / MRI contrast agents / Kinetics / Thermodynamics



1987 K. V. Zaitsev, S. S. Karlov,* A. A. Selina,
Y. F. Oprunenko, A. V. Churakov,
B. Neumüller, J. A. K. Howard,
G. S. Zaitseva

Titanium Complexes of Dialkanolamine Li-
gands: Synthesis and Structure

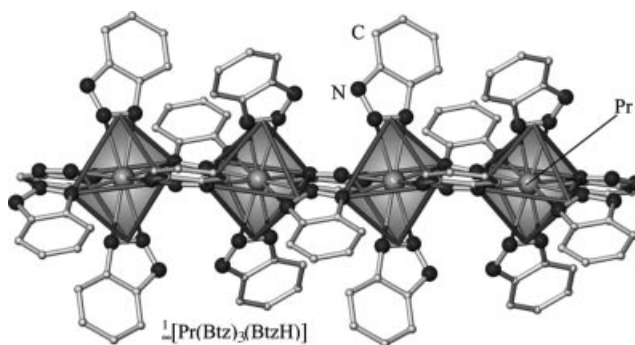
Keywords: Titanium / Alkoxides / Pentacoordination /
Hexacoordination / Dialkanolamine com-
plexes



2000 K. Müller-Buschbaum,* Y. Mokaddem

Rare Earth Benzotriazoles: Coordination Poly-
mers Incorporating Decomposition Products from
Ammonia to 1,2-Diaminobenzene in
 $\frac{1}{3}[\text{Ln}(\text{Btz})_3(\text{BtzH})]$ ($\text{Ln} = \text{Ce}, \text{Pr}$), $\frac{1}{3}[\text{Ln}(\text{Btz})_3\cdot$
 $\{\text{Ph}(\text{NH}_2)_2\}]$ ($\text{Ln} = \text{Nd}, \text{Tb}, \text{Yb}$), and $\frac{1}{3}[\text{Ho}_2\cdot$
 $(\text{Btz})_6(\text{BtzH})(\text{NH}_3)]$

Keywords: Solvent-free synthesis / Lanthanides /
Benzotriazole / Crystal structure / X-ray
diffraction

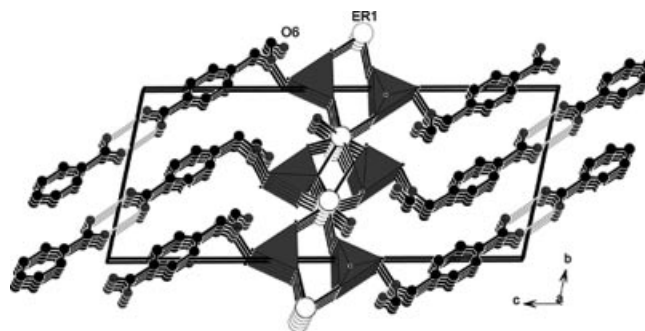


2011 S.-F. Tang, J.-L. Song, J.-G. Mao*



Syntheses, Crystal Structures, and Characteriza-
tions of a Series of New Layered Lanthanide
Carboxylate-Phosphonates

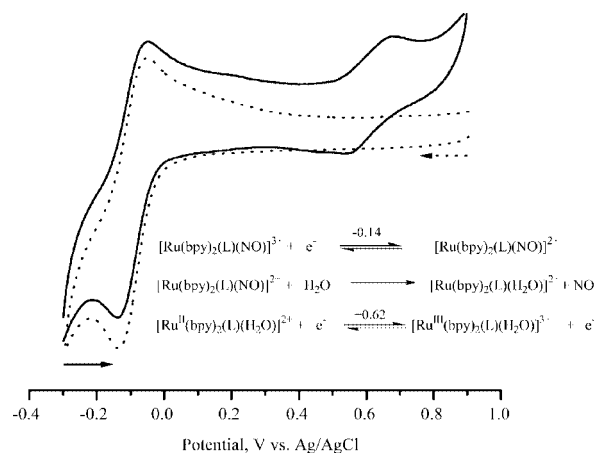
Keywords: Lanthanides / Phosphonate / Luminescence



2020 F. O. N. Silva, S. X. B. Araújo,
A. K. M. Holanda, E. Meyer,
F. A. M. Sales, I. C. N. Diógenes,
I. M. M. Carvalho, Í. S. Moreira,*
L. G. F. Lopes*

Synthesis, Characterization, and NO Release
Study of the *cis*- and *trans*-[Ru(Bpy)₂-
(SO₃)(NO)]⁺ Complexes

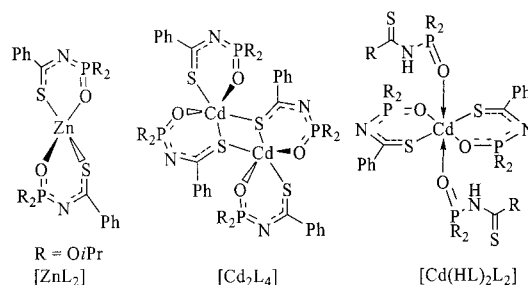
Keywords: Ruthenium / Nitrogen oxides / Bioinorganic
chemistry / Drug design



- 2027** F. D. Sokolov, D. A. Safin,* N. G. Zabiroy,
V. V. Brusko, B. I. Khairutdinov,
D. B. Krivolapov, I. A. Litvinov

Coordination Mode of the Zinc(II) and Cadmium(II) Cations with *N*-(Diisopropoxyphosphoryl)thiobenzamide

Keywords: Chelates / Coordination modes / Crystal structures / (Thioacylamido)phosphates / Zinc(II) / Cadmium(II) complexes

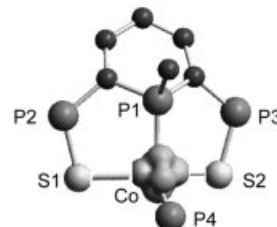


- 2035** M. Doux, P. Le Floch, Y. Jean*



Diamagnetic versus Paramagnetic Structure of SPS-Type Pincer-Based Co^I, Rh^I, and Ir^I Complexes

Keywords: Group 9 / Density functional calculations / P ligands / S ligands / QM/MM

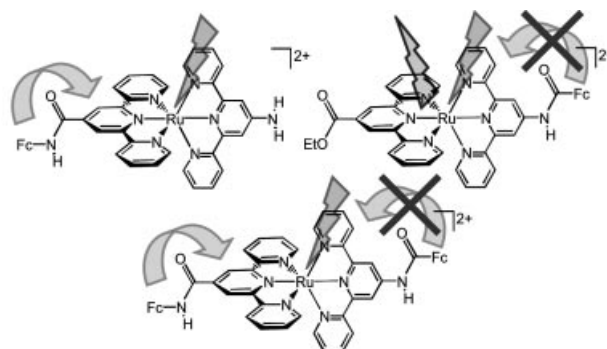


- 2040** K. Heinze,* K. Hempel, M. Beckmann



Multielectron Storage and Photo-Induced Electron Transfer in Oligonuclear Complexes Containing Ruthenium(II) Terpyridine and Ferrocene Building Blocks

Keywords: Electron transfer / Heterometallic complexes / Luminescence / Metallocenes / Ruthenium

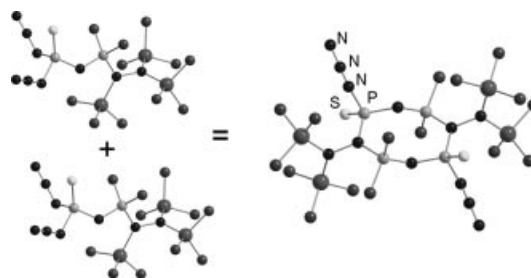


- 2051** N. Götz, S. Herler, P. Mayer, A. Schulz,*
A. Villinger, J. J. Weigand



On the Staudinger Reaction of SP(N₃)₃ with PPh₃ and (Me₃Si)₂N–(Me₃Si)N–PPh₂

Keywords: Azides / PN rings / Phosphazenes / Staudinger reaction

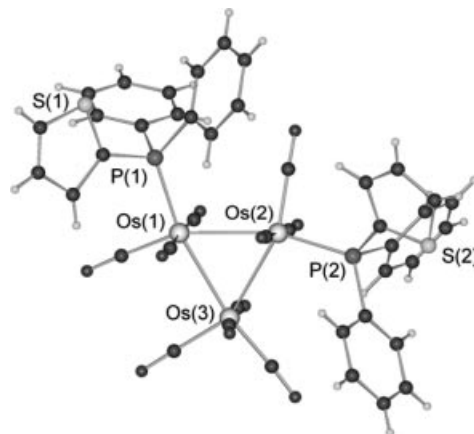


- 2058** N. K. Kiriakidou Kazemifar,
M. J. Stchedroff, M. Abdul Mottalib,
S. Selva, M. Monari, E. Nordlander*



Syntheses and Fluxional Processes of Diphenyl-(2-thienyl)phosphane Derivatives of Triosmium Clusters

Keywords: Cluster / Thienylphosphane / Fluxional-ity / Hydrodesulfurisation

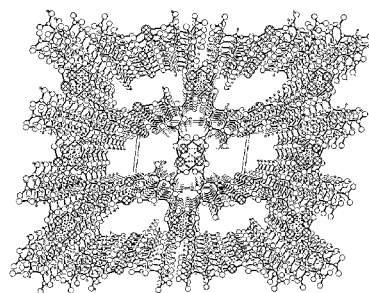


2069 J. Wang, S. Hu, M.-L. Tong*



Rational Synthesis and Characterization of Two Three-Dimensional Metal-Organic Frameworks Incorporating Silver Chains and 1,2,3,4,5,6-Cyclohexanhexacarboxylate

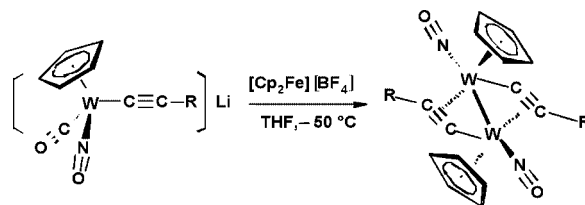
Keywords: Silver / MOFs / Cyclohexanhexacarboxylate / Water tape / Ag...Ag interactions / Supramolecular chemistry



2078 J. Ipaktschi,* F. Munz

Single-Electron Oxidation of Tungsten Acetylide Complexes $[(\eta^5\text{-C}_5\text{H}_5)(\text{CO})(\text{NO})\text{W}-\text{C}\equiv\text{C}-\text{R}]\text{Li}$

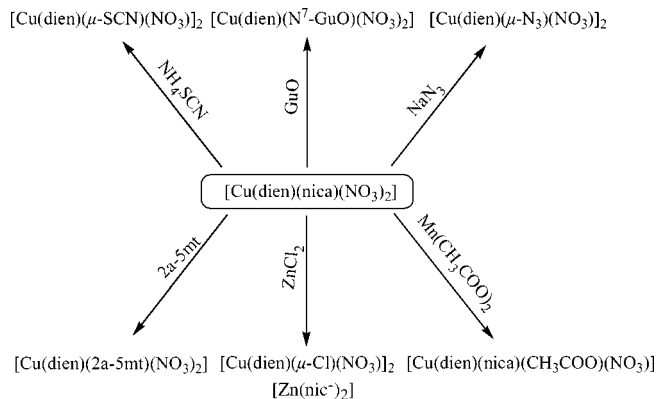
Keywords: Tungsten / Alkyne ligands / Oxidation / Bridging ligands / Metal-metal interactions



2083 P. A. Papanikolaou, P. C. Christidis, A. T. Chaviara, C. A. Bolos,* A. C. Tsipis*

An Experimental and Density Functional Study of the Interaction of Cu^{II} Complexes of Diethylenetriamine (Dien) with Pyridine, Nicotinic Acid, and Nicotinamide: The Crystal Structure of $[\text{Cu}(\text{dien})(\text{nicotinamide})(\text{NO}_3)_2]$

Keywords: Copper / Density functional calculations / N ligands / Thermal analysis



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