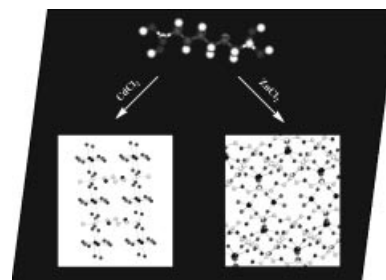


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COVER PICTURE

The cover picture shows the richness of 1,2-ethanediylbis-(iminomethylene)bis(phosphonic acid) (H_4L) used as a ligand. The left compound is cadmium phosphonate, $Cd_2Cl_2(H_2O)_4(H_2L)$, in which the Cd atoms form dimers through bridging chloride ions. These dimers are, in turn, formed into rows by the phosphonate groups, and the rows are crosslinked by the organic chain of the ligand into layers. The second picture shows $Zn_3Cl_2(H_2L)_2 \cdot 2H_2O$, in which Zn atoms are tetrahedrally coordinated. One of the Zn atoms lies in rows parallel to the *b*-axis, which are sandwiched between rows formed by the two other Zn atoms. The carbon–nitrogen chains crisscross each other forming a three-dimensional structure. The structure of this latest compound is presented in the article by A. Clearfield et al. on p. 829 ff.



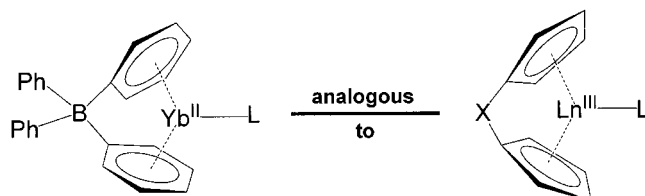
SHORT COMMUNICATIONS

Contents

817 G. B. Deacon,* C. M. Forsyth, P. C. Junk

$\eta^6:\eta^6$ Coordination of Tetraphenylborate to Ytterbium(II): A New Class of Lanthanoid *ansa*-Metallocenes

Keywords: Metallocenes / Ytterbium / Tetraphenylborate / Bis(trimethylsilyl)amide / Pyrazolate

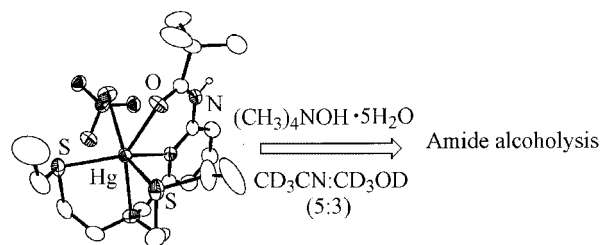


822

M. M. Makowska-Grzyska, K. Doyle,
R. A. Allred, A. M. Arif, D. C. Bebout,*
L. M. Berreau*



Structural, Spectroscopic, and Reactivity Properties of N_2S_2 (thioether)O(amide)-Ligated Hg^{II} Complexes: The First Examples of Hg^{II} -Mediated Amide Cleavage



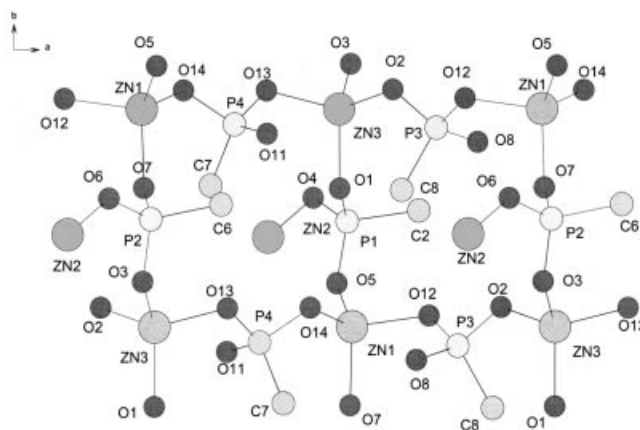
Keywords: Mercury / Amides / NMR Spectroscopy / $J_{199Hg|H}$ and $J_{199Hg|13C}$ identified
Zinc / Cadmium

FULL PAPERS

829

N. Bestaoui, E. V. Bakhmutova-Albert,
A. V. Rodriguez, R. Llavona, A. Clearfield*

Ab-initio Powder Structure Determination of Dichloro[1,2-ethanediylbis(iminomethylene)bis-(phosphonato)]trizinc Dihydrate



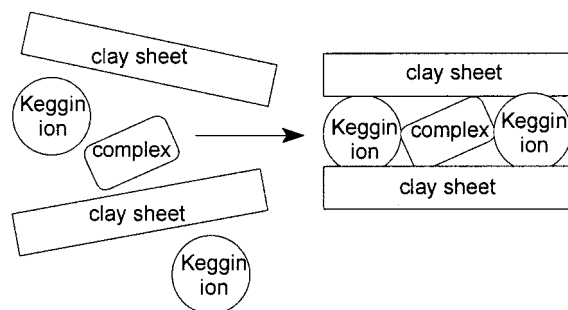
Keywords: Metal phosphonates / Zinc

837

B. Cardoso, J. Pires,* A. P. Carvalho,
M. B. Carvalho, I. Kuźniarska-Biernacka,
A. R. Silva, C. Freire,* and B. de Castro

Catalytic Properties of a Mn^{III} -Salen Complex Immobilised in a Pillared Clay by Simultaneous Pillaring/Encapsulation Procedures

Keywords: Clays / Microporous materials / Heterogeneous catalysis / Manganese

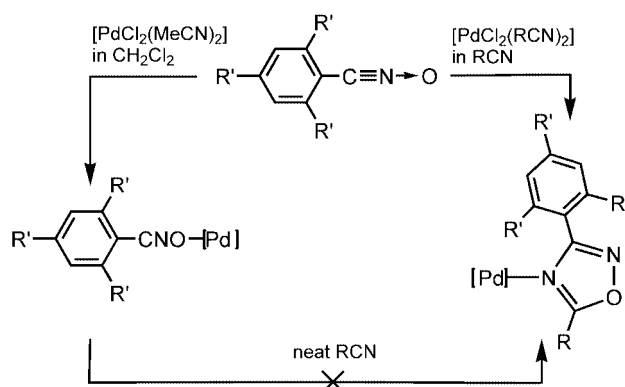


845

N. A. Bokach, V. Y. Kukushkin,*
M. Haukka, A. J. L. Pombeiro*

Synthesis of (1,2,4-Oxadiazole)palladium(II) Complexes by [2+3] Cycloaddition of Nitrile Oxides to Organonitriles in the Presence of $PdCl_2$

Keywords: Palladium / 1,2,4-oxadiazole complexes / Nitrile complexes / Nitrile oxide complexes / Cycloaddition

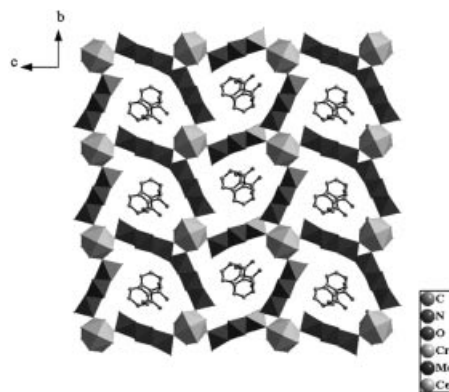


- 854 H. An, D. Xiao, E. Wang,* Y. Li, X. Wang, L. Xu



Open-Framework Polar Compounds: Synthesis and Characterization of Rare-Earth Polyoxometalates $(\text{C}_6\text{NO}_2\text{H}_5)_2[\text{Ln}(\text{H}_2\text{O})_5(\text{CrMo}_6\text{H}_6\text{O}_{24})] \cdot 0.5\text{H}_2\text{O}$ (Ln = Ce and La)

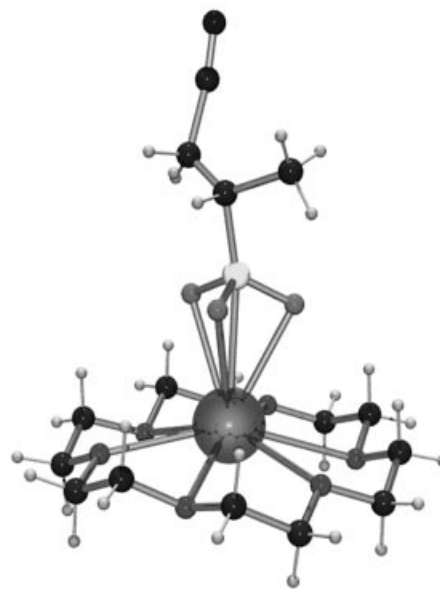
Keywords: Rare earth / Polyoxometalates / Open framework / Polar compounds / Magnetic properties



- 860 Z. Fei, D. Zhao, T. J. Geldbach, R. Scopelliti, P. J. Dyson*

Structure of Nitrile-Functionalized Alkyltri-fluoroborate Salts

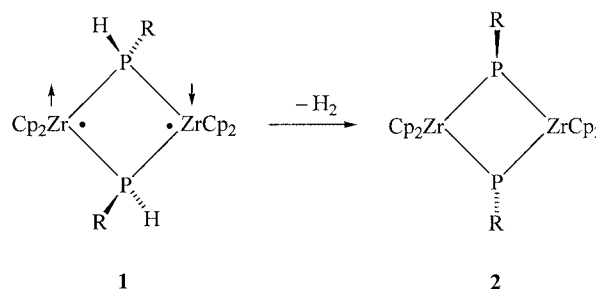
Keywords: Anions / Borates / Boron / X-ray structure / Crystal engineering



- 866 M. Driess,* J. Aust, K. Merz

From Dinuclear Zirconium(+3)-Phosphido Complexes $\{[\text{Cp}_2\text{ZrP}(\text{H})\text{R}]_2\}$ to the First Neutral Zirconocene-Phosphinidene Dimers $[(\text{Cp}_2\text{ZrPR})_2]$ by P–H Dehydrogenation

Keywords: Antiferromagnetic coupling / Phosphido complexes / Silylphosphanes / Zirconium / Phosphorus / P–H bonding activation

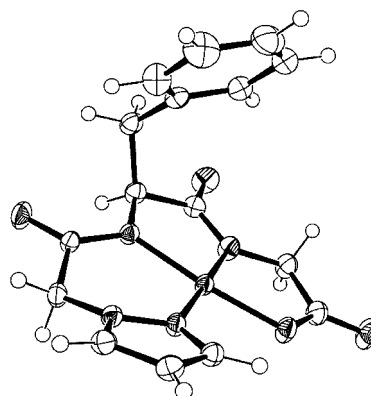


- 872 A. N. Boa,* J. D. Crane,* R. M. Kowalczyk, N. H. Sultana



Addition of (Pyrazol-1-yl)acetyl and (Pyridin-2-yl)acetyl Groups to the Terminal Amino Group of a Phe–Gly Dipeptide Affords ATCUN-Like Copper(II) Binding Sites

Keywords: Bioinorganic chemistry / Copper / Peptides / Tetradentate ligands

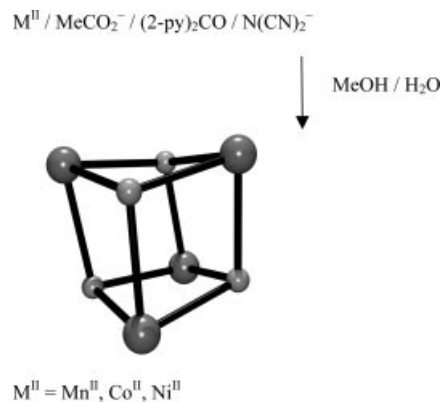


879

G. S. Papaefstathiou, A. Escuer,
F. A. Mautner, C. Raptopoulou, A. Terzis,
S. P. Perlepes,* R. Vicente*

Use of the Di-2-pyridyl Ketone/Acetate/Dicyanamide "Blend" in Manganese(II), Cobalt(II) and Nickel(II) Chemistry: Neutral Cubane Complexes

Keywords: Cobalt(II) cubanes / Dicyanamide complexes / Di-2-pyridyl ketone / Magnetic properties / Manganese(II) cubanes / Nickel(II) cubanes

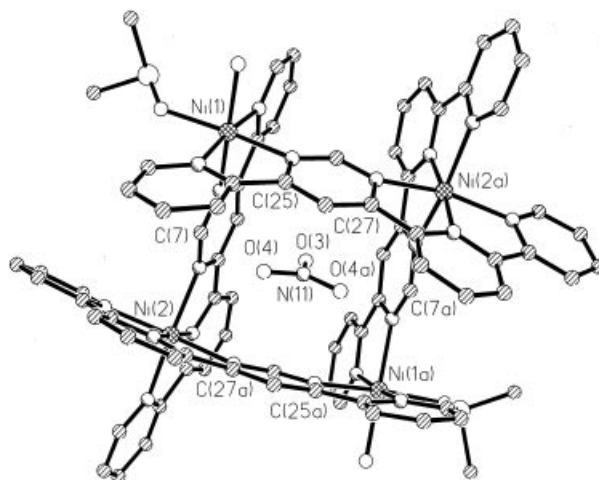


894

L. Kovbasyuk, H. Pritzkow, R. Krämer*

Coordination Chemistry of the Ditopic Ligand 4-[6-(2-Pyridyl)-2-pyridyl]-6-(2-pyridyl)pyrimidine: Encapsulation of Nitrate by [2 × 2] Grid Complexes

Keywords: Ligand design / Self-assembly / Nitrate recognition / Grids / Nickel(II) / Cobalt(II)

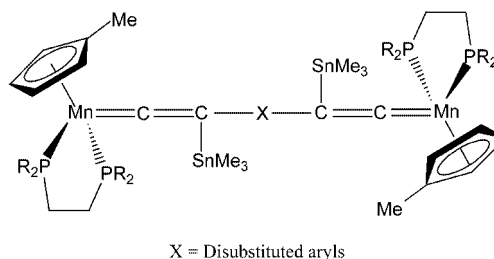


901

K. Venkatesan, T. Fox, H. W. Schmalle,
H. Berke*

New Access to Homodinuclear Half-Sandwich Vinylidenemanganese Complexes

Keywords: Cyclopentadienyl ligands / Half-sandwich complexes / Phosphanes / Molecular devices / Vinylidene ligands

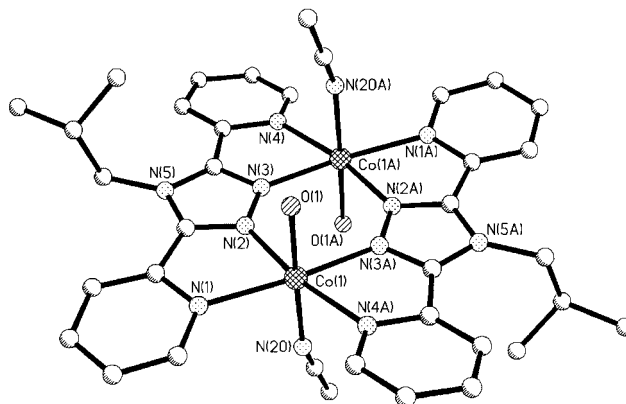


910

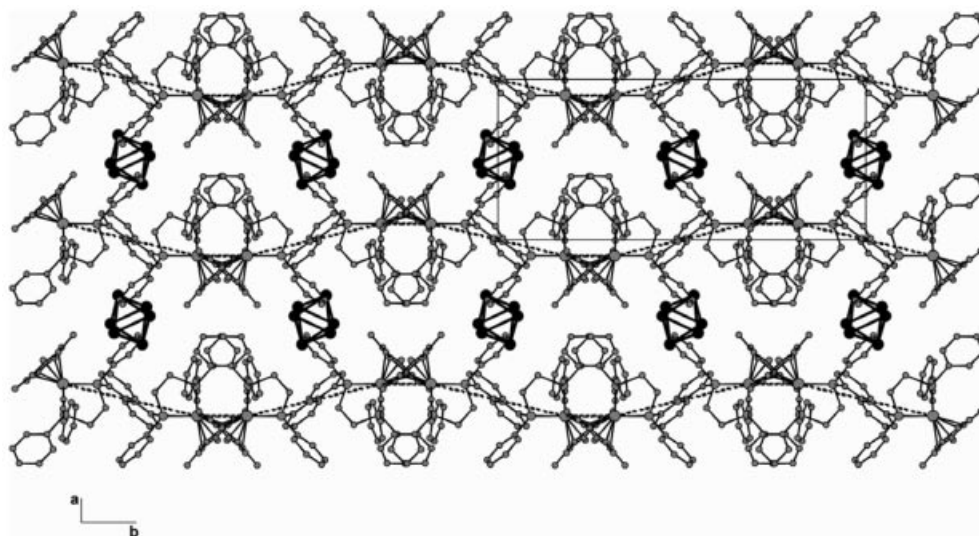
M. H. Klingele, P. D. W. Boyd,
B. Moubaraki, K. S. Murray, S. Brooker*

First Complexes of a 4-Alkyl-3,5-di(2-pyridyl)-4H-1,2,4-triazole: Synthesis, X-ray Crystal Structures and Magnetic Properties of Dinuclear Cobalt(II), Nickel(II) and Copper(II) Complexes of 4-Isobutyl-3,5-di(2-pyridyl)-4H-1,2,4-triazole

Keywords: 1,2,4-Triazole / Bridging ligands / N ligands / Magnetic properties / X-ray diffraction

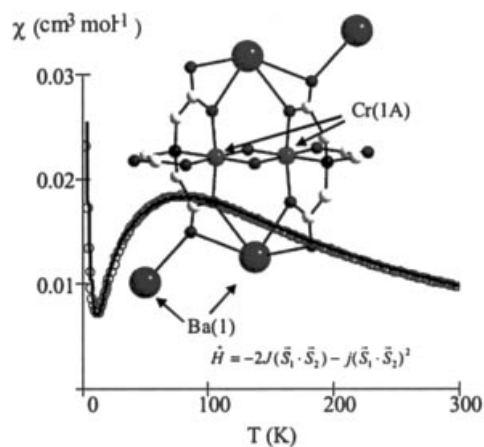


Assisted Crystallization of Organometallic Cations by Interplay with Inorganic Anionic Clusters Units: Synthesis and Characterizations of the $[\text{Cp}^*(\text{dppe})\text{Fe}-\text{NCMe}]_2-\text{M}_6\text{L}_{14}$ Series (M_6L_6 = Cluster Unit: $[\text{Re}_6\text{S}_6\text{Br}_8]^{2-}$, $[\text{Mo}_6\text{Br}_{14}]^{2-}$ and $[\text{Mo}_6\text{I}_{14}]^{2-}$)



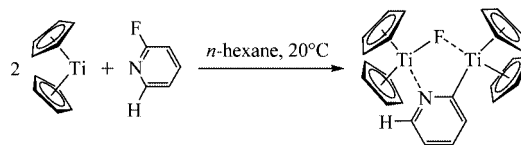
Keywords: Iron / Rhenium / Molybdenum octahedral clusters / M_6L_{14} units / Hybrid compounds / Inorganic organometallic chemistry / Single-crystal structures

Evolution of the Structural Parameters and Magnetic Properties in a Series of Di(μ -hydroxy)-bis(nitrilotriacetato)dichromium(III) Complexes



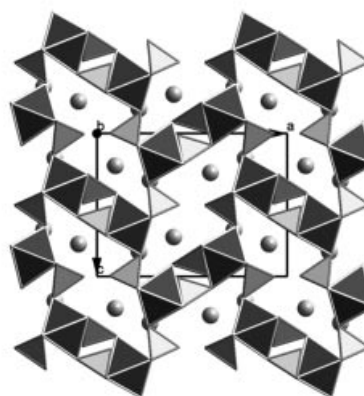
Keywords: Chromium / Alkaline earth metals / N,O ligands / Magnetic properties

Selective C–H and C–F Bond Activation Reactions of Pyridine and Fluoropyridines – Formation of Binuclear μ -X Titanocene Complexes (X = H, F) with α -Functionalized N-Heterocycles



Keywords: Titanium / Bridging ligand / Fluorinated ligands / Nitrogen heterocycles / C–H activation / C–F activation

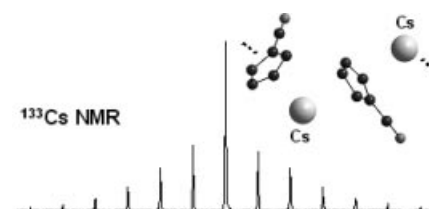
Two Novel Transition-Metal Phosphite Compounds with 4-, 6- and 12-Membered Rings: Hydrothermal Syntheses, Crystal Structures and Magnetic Properties of $\text{Na}_2[\text{M}(\text{HPO}_3)_2]$ (M = Fe, Co)



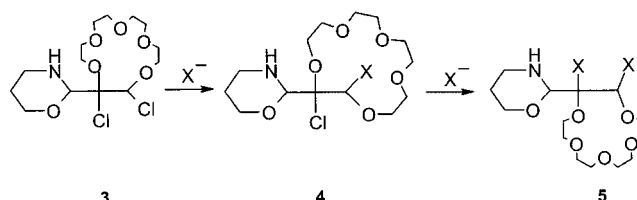
Keywords: Synthesis / Structure / Cobalt / Iron / Phosphites / Magnetic properties

(Cyanocyclopentadienyl)potassium and -cesium

Keywords: Cyanocyclopentadienide / Crystal structure / ^{133}Cs NMR spectroscopy



Crystallographic Proof of Double Walden Inversion in Nucleophilic Substitution Reactions of Macrocyclic Cyclotriphosphazene Derivatives

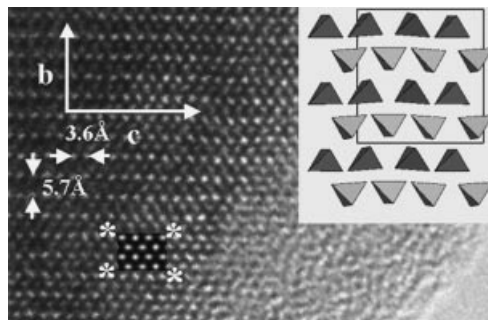


Keywords: Nucleophilic substitution / Inversion of configuration / Cyclotriphosphazenes / Crystal structures / Configuration determination

967 K. Boulahya, M. Parras,
J. M. González-Calbet*

Synthesis, Structural and Magnetic Characterization of a New Scheelite Related Compound: $\text{Eu}_2\text{Mo}_3\text{O}_{12}$

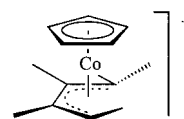
Keywords: Molybdate / X-ray diffraction / High resolution electron microscopy / Magnetic properties



971 M. V. Butovskii, U. Englert,
G. E. Herberich,* U. Koelle

Reaction Chemistry of the Carbenoid Butadienyl Complex Ion $[\text{CpCo}(\sigma, \eta^4\text{-C}_4\text{HMe}_4)]^+$ Formed by Protonation of the Cyclobutadiene Complex $[\text{CpCo}(\text{C}_4\text{Me}_4)]$

Keywords: Cobalt / Cyclobutadiene / Butadienyl / Carbene



CORRECTION

981 M. R. Maurya,* S. Agarwal, C. Bader,
D. Rehder*

Dioxovanadium(v) Complexes of ONO Donor Ligands Derived from Pyridoxal and Hydrazides: Models of Vanadate-Dependent Haloperoxidases

Keywords: Vanadium / Hydrazones / Catalytic bromination / Pyridoxal