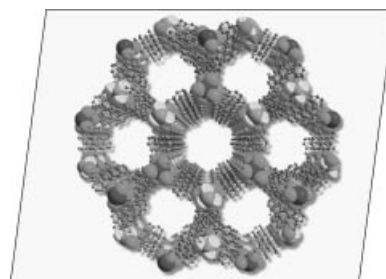


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COVER PICTURE

The cover picture shows the honeycomb structure formed by π - π stacking of homoleptic octahedral Ni^{II} complexes of the “large-surface” ligand 1,12-diazaperylene (dap), $[\text{Ni}(\text{dap})_3](\text{BF}_4)_2$ (Ni red, N green, C dark yellow, B blue, F light yellow). The $[\text{Ni}(\text{dap})_3]^{2+}$ cation and one of the BF_4^- counterions form parallel nanosized channels (ca. 9.60 Å in diameter), which run along the crystallographic c axis and are filled with the other disordered BF_4^- counterion (omitted for clarity). The C_3 symmetry of $[\text{Ni}(\text{dap})_3]^{2+}$ is a prerequisite for forming the highly symmetrical supramolecular assembly. Details are discussed in the article by H.-J. Holdt et al. on p. 1547 ff.



SHORT COMMUNICATION

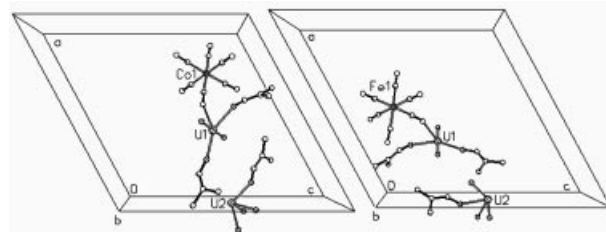
Contents

1543 L.-P. Zhang, P. A. Tanner,* T. C. W. Mak



Two Novel 5f–3d Bimetallic Cyano-Bridged Complexes

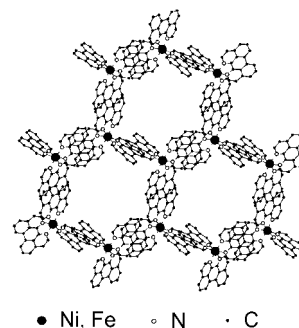
Keywords: Cyano bridge / Transition metal / Uranium / Electronic structure



- 1547** S. Kammer, H. Müller, N. Grunwald,
A. Bellin, A. Kelling, U. Schilde, W. Mickler,
C. Dosche, H.-J. Holdt*

Supramolecular Assemblies with Honeycomb Structures by π - π Stacking of Octahedral Metal Complexes of 1,12-Diazaperylene

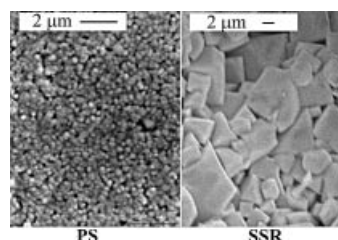
Keywords: Nickel / Iron / N ligands / π Interactions / Self-assembly



- 1552** A. Belous,* O. Gavrilenko, O. Pashkova,
C. Galven, O. Bohnké

Peculiarities of the Synthesis of Lithium Ion Conducting Lanthanum Tantalate by Solid-State Reaction and Precipitation from Solutions

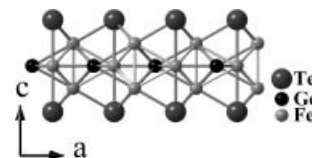
Keywords: Tantalates / Solid-state reactions / Precipitation from solution / Microstructure / Ionic conductivity



- 1561** H.-J. Deiseroth,* K. Aleksandrov, C. Reiner,
L. Kienle, R. K. Kremer

Fe_3GeTe_2 and Ni_3GeTe_2 : Two New Layered Transition-Metal Compounds: Crystal Structures, HRTEM Investigations, and Magnetic and Electrical Properties

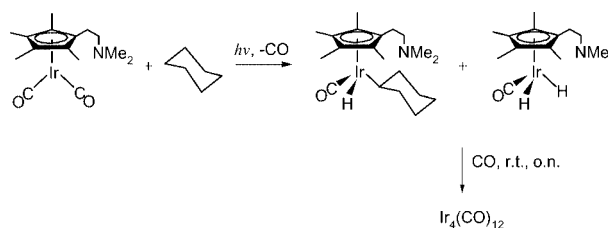
Keywords: Layered compounds / Crystal structures / Iron germanium telluride / Magnetism / Electron microscopy / Conductivity



- 1568** P. K. Chan, W. K. Leong,* K. I. Krummel,
M. V. Garland*

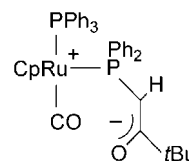
Aminoethyl-Functionalized Cyclopentadienyl-iridium Complexes: Photochemical C–H Activation and Carbonylation of Cycloalkanes

Keywords: Carbonylation / C–H activation / Cyclopentadienyl ligands / Iridium / Photochemistry



1573 B. Demerseman,* L. Toupet

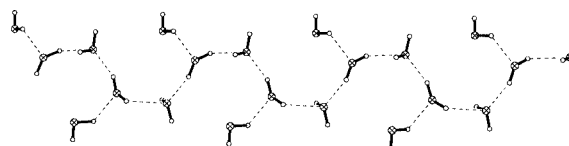
Enolate-Phosphane Ligands Providing a Tool for the Selective Substitution of Triphenylphosphane by Carbon Monoxide or Trimethylphosphane in Complex $\{\text{Ru}(\text{Cp})[\eta^2\text{-}P,\text{O-Ph}_2\text{PCH}_2\text{C}(\text{tBu})=\text{O}](\text{PPh}_3)\}[\text{PF}_6]$, and Subsequent Reactivity Towards Terminal Alkynes



Keywords: Cyclopentadienyl ligands / Metallacycles / Phosphane ligands / Ruthenium / Vinylidene ligands

1582 F. Li, T.-H. Li, W. Su, S.-Y. Gao, R. Cao*

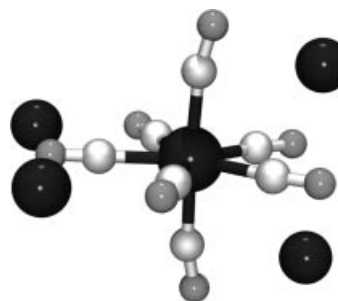
Formation of Two 1D Polymeric Water Morphologies



Keywords: Hosts / Water morphologies / Chains / Tapes

1588 V. Schmid, R. Linder, C. M. Marian*

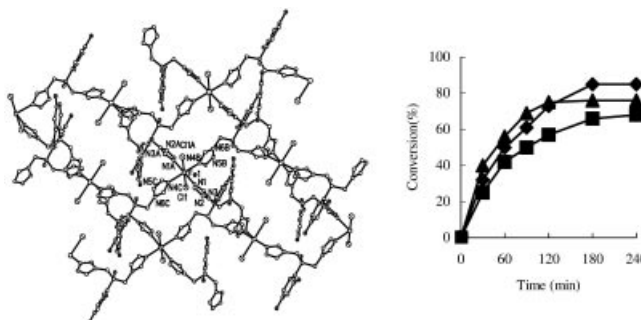
The UV/Vis Spectrum of Potassium Heptacyanovanadate(III): A Theoretical Multi-Reference Configuration Interaction Study Combined with Low-Temperature Experiments



Keywords: Cyanide ligands / Electronic structure / Quantum chemistry / UV/Vis spectroscopy / Vanadium

1594 H. Han, S. Zhang, H. Hou,* Y. Fan, Y. Zhu

Fe(Cu)-Containing Coordination Polymers: Syntheses, Crystal Structures, and Applications as Benzyl Alcohol Oxidation Catalysts



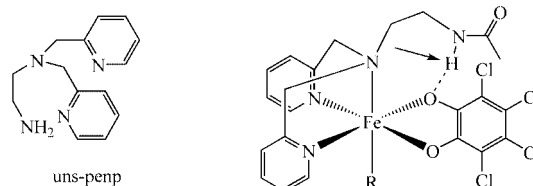
Keywords: Fe(Cu)-coordination polymers / Benzyl alcohol oxidation / Catalysts

1601

J.-Y. Xu, J. Astner, O. Walter,
F. W. Heinemann, S. Schindler,* M. Merkel,
B. Krebs*

Iron(III) Complexes with the Ligand *N',N'*-Bis[(2-pyridyl)methyl]ethylenediamine (uns-penp) and Its Amide Derivative *N*-Acetyl-*N',N'*-bis[(2-pyridyl)methyl]ethylenediamine (acetyl-uns-penp)

Keywords: Iron / Tripodal ligands / Catechol dioxygenase / Amide hydrogen bonding / Carboxamide coordination

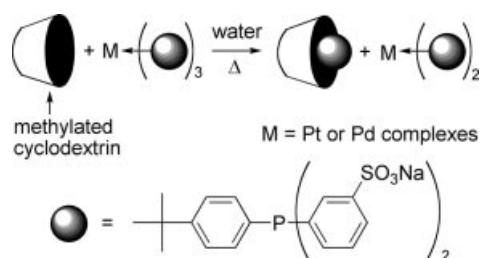


1611

C. Binkowski-Machut, M. Canipelle,
H. Bricout, S. Tilloy, F. Hapiot,
E. Monflier*



Supramolecular Trapping of Phosphanes by Cyclodextrins: A General Approach to Generate Phosphane Coordinatively Unsaturated Organometallic Complexes



Keywords: Phosphane ligands / Cyclodextrins / Molecular recognition / Palladium / Platinum

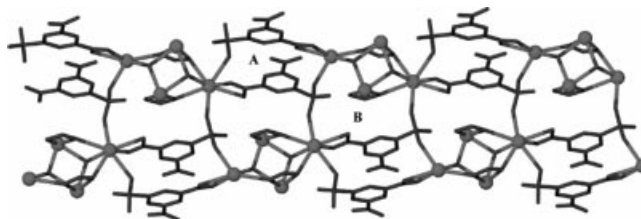
1620

Q.-Y. Liu, L. Xu*



Synthesis, Crystal Structures, and Photophysical Properties of Two Novel Lead(II)–SIP Coordination Polymers (NaH₂SIP = 5-Sulfoisophthalic Acid Monosodium Salt) Containing Tetranuclear Lead(II) Units

Keywords: Tetranuclear lead / Hydrothermal synthesis / Crystal structures / Photophysical properties

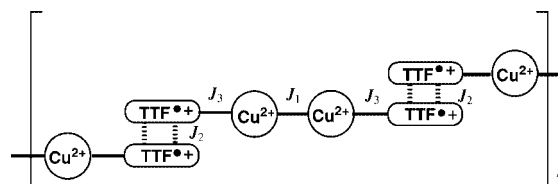


1629

W. Lu, Y. Zhang, J. Dai*, Q.-Y. Zhu,
G.-Q. Bian, D.-Q. Zhang

A Radical–Radical and Metal–Metal Coupling Tetrathiafulvalene Derivative in which Organic Radicals Directly Coordinate to Cu^{II} Ions

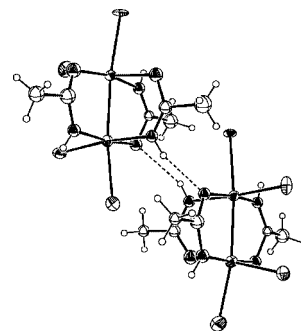
Keywords: Tetrathiafulvalenes / Copper(II) complexes / Magnetic coupling



1635 R. Z. Pellicani, F. P. Intini, L. Maresca,
E. Mesto, C. Pacifico, G. Natile*

The First Example of a Dinuclear Platinum(III)
Complex with Three Bridging Ligands

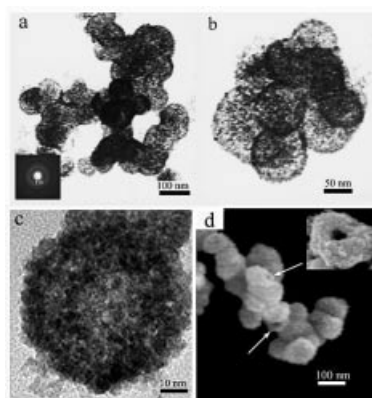
Keywords: Bridging ligands / Hydrogen bonds /
Metal–metal interactions / N ligands /
Platinum(III)



1643 Q. R. Zhao, Y. Gao, X. Bai, C. Z. Wu,
Y. Xie*

Facile Synthesis of SnO₂ Hollow Nanospheres
and Applications in Gas Sensors and Electro-
catalysts

Keywords: Tin oxides / Room-temperature sensitiv-
ity / Electrocatalysts

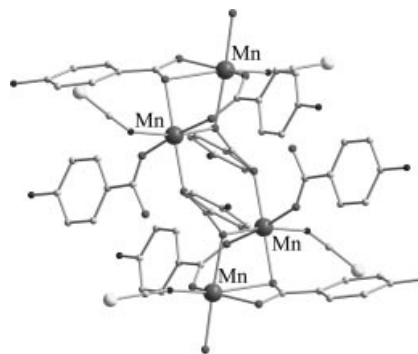


1649 R.-H. Wang, D.-Q. Yuan, F.-L. Jiang,
L. Han, S. Gao, M. Hong*



Syntheses, Structures, and Characterization of
Two Manganese(II)-Aminobenzoic Complexes

Keywords: Manganese / Aminobenzoic acid /
Magnetic properties

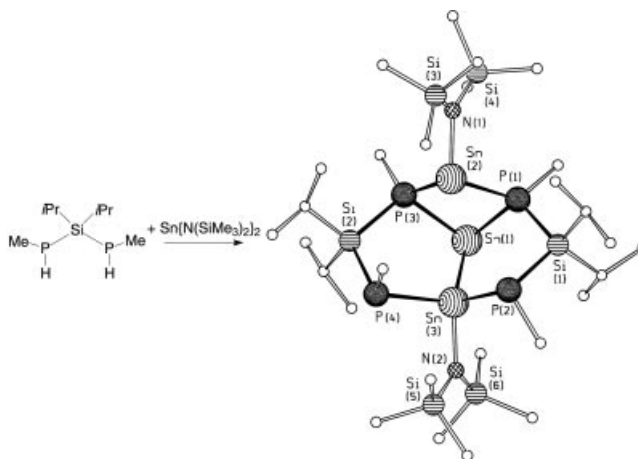


1657 C. von Hänisch,* O. Rubner



Synthesis and Metallation of the Diphosphenyl-
silane *i*Pr₂Si(PHMe)₂

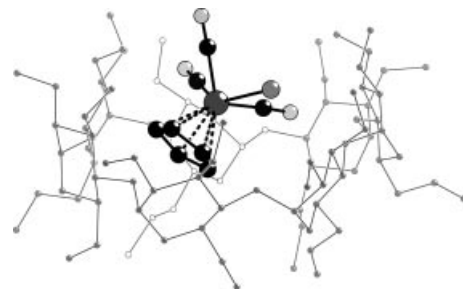
Keywords: Clusters / Phosphorus / Silicon / Tin / Zinc



1662 S. S. Braga, F. A. Almeida Paz, M. Pillinger, J. D. Seixas, C. C. Romão,* I. S. Gonçalves*

Structural Studies of β -Cyclodextrin and Permethylated β -Cyclodextrin Inclusion Compounds of Cyclopentadienyl Metal Carbonyl Complexes

Keywords: Ab initio calculations / Cyclodextrins / Inclusion compounds / Iron / Molybdenum / Sandwich complexes

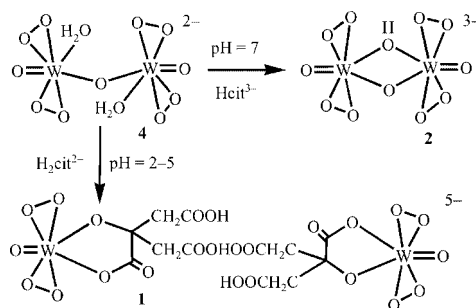


1670 S.-Y. Hou, Z.-H. Zhou,* T.-R. Lin, H.-L. Wan



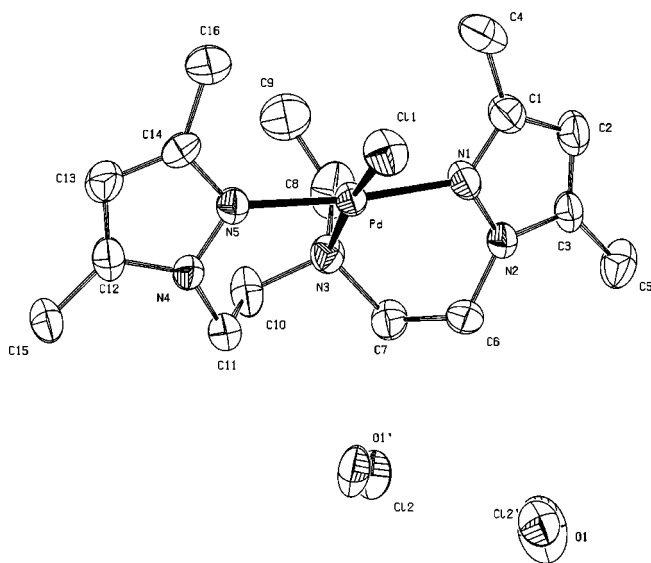
Peroxo-tungstates and Their Citrate and Tartrate Derivatives

Keywords: Bioinorganic chemistry / Peroxo ligands / Polyoxometalates / Tungsten



1678 A. Pañella, J. Pons,* J. García-Antón, X. Solans, M. Font-Bardia, J. Ros*

Synthesis of New Palladium(II) Complexes Containing Hemilabile *N*-(Alkylamino)pyrazole Ligands: Spectroscopic Analysis and Crystal Structure of [PdCl(ddae)]Cl·H₂O {ddae = Bis[2-(3,5-dimethyl-1-pyrazolyl)ethyl]ethylamine}

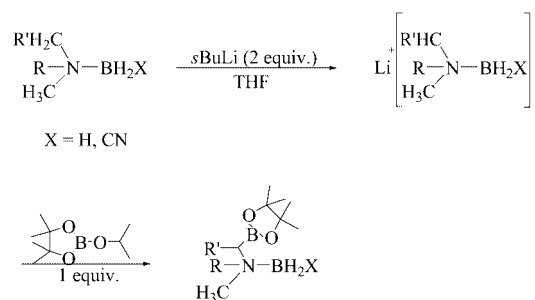


Keywords: Hemilabile ligands / N ligands / Palladium

1686 A. Shibli, M. Srebnik*

Synthesis of Novel α -Aminoboronate Complexes of Aminoboranes and Aminocyanoboranes

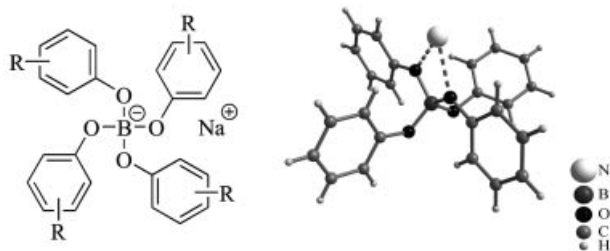
Keywords: Amines / Aminoboranes / Aminocyanoboranes / Boranes / Lewis acids



1690 I. M. Malkowsky, R. Fröhlich, U. Griesbach,
H. Pütter, S. R. Waldvogel*

Facile and Reliable Synthesis of Tetraphenoxyborates and Their Properties

Keywords: Borates / Sodium / Anions / Phenolates



1698 B.-C. Tzeng,* Y.-M. Lu, G.-H. Lee,
S.-M. Peng

Self-Assembly of *N,N',N'',N'''*-Tetra(pyridin-4-yl)-1,4,7,10-tetraazacyclododecane-1,4,7,10-tetracarboxamide with Zn²⁺ or Cd²⁺ Ions

Keywords: Charge transfer / Luminescence / Metallo-macrocycles / Self-assembly / Supramolecular chemistry

