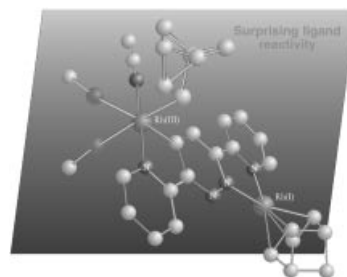


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COVER PICTURE

The cover picture shows the structure of an unusual dinuclear $\text{Rh}^{\text{I}}\text{--Rh}^{\text{III}}$ complex obtained in the reaction of the tetradentate ligand 3,6-bis(2-pyridyl)pyridazine with cationic (diene) Rh^{I} precursors. Initially, the expected N,N-bidentate Rh^{I} complex is formed, which upon further reaction with the Rh^{I} precursor undergoes C–H bond activation of the pyridazine ring, forming a C,N-bidentate Rh^{III} center. This is followed by a unique rearrangement of the diene, which is dependent on the metal precursor and on the ligand used. Details are discussed in the article by D. Milstein et al. on p. 70 ff. We thank Relli Mahager (Graphics Department, WIS) for producing the colour picture.



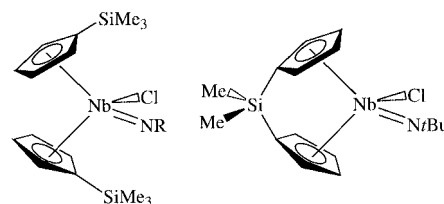
MICROREVIEW

Contents

17 A. Antiñolo, M. Fajardo, A. Otero,* S. Prashar

Sandwich and Half-Sandwich (Imido)niobium Complexes

Keywords: Niobium / Imido ligands / Cyclopentadienyl ligands / *ansa*-Niobocene complexes

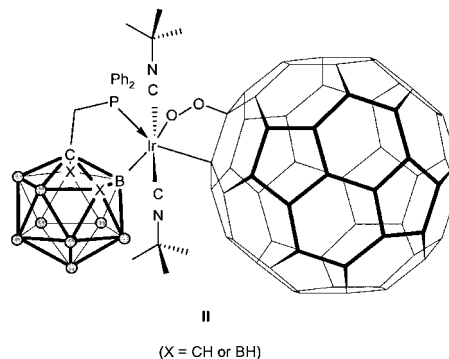


SHORT COMMUNICATIONS

- 29** A. V. Usatov,* E. V. Martynova,
F. M. Dolgushin, A. S. Peregudov,
M. Yu. Antipin, Yu. N. Novikov

Selective Insertion of Dioxygen into an $(\eta^2\text{-C}_{60})\text{-Ir}$ Bond: Synthesis and Structure of the First Metallacyclic Complex with a σ -Coordinated Fullerene Molecule

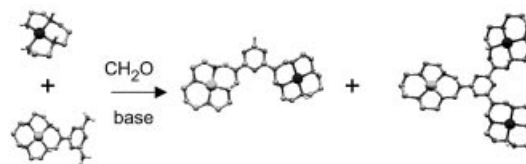
Keywords: Fullerenes / Carboranes / Iridium / Oxygen / Insertion



- 34** P. Comba,* Y. D. Lampeka,* L. Lötzbeyer,
A. I. Prikhod'ko

Macrocyclic Melamine-Based Ligand Complexes as Building Blocks for the Metal-Directed Synthesis of Heterometallic Di- and Trinuclear Compounds

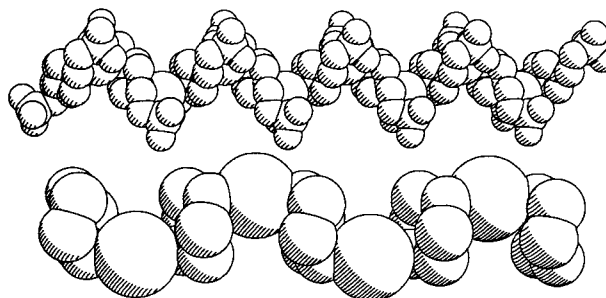
Keywords: Template reactions / Nickel / Copper / Macrocycles / N ligands



- 38** D. Sun, R. Cao,* Y. Sun, W. Bi, X. Li,
M. Hong, Y. Zhao

Self-Assembly of a One-Dimensional Silver Complex Containing Two Kinds of Helical Chains

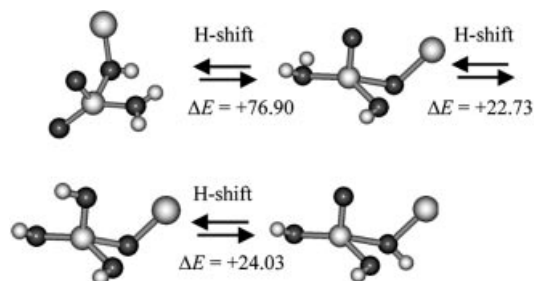
Keywords: Self-assembly / S ligands / N ligands / Silver / Helical structures



- 42** O. Bortolini,* M. Carraro, V. Conte,*
S. Moro

Vanadium-Bromoperoxidase-Mimicking Systems: Direct Evidence of a Hypobromite-Like Vanadium Intermediate

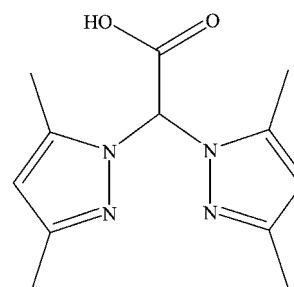
Keywords: Ab initio calculations / Enzyme models / Mass spectrometry / Peroxo ligands / Vanadium



- 47** B. Kozlevčar, P. Gamez, R. de Gelder,
W. L. Driessen,* J. Reedijk

Unprecedented Change of the Jahn–Teller Axis in a Centrosymmetric Cu^{II} Complex Induced by Lattice Water Molecules – Crystal and Molecular Structures of Bis[bis(3,5-dimethylpyrazol-1-yl)acetato]copper(II) and Its Dihydrate

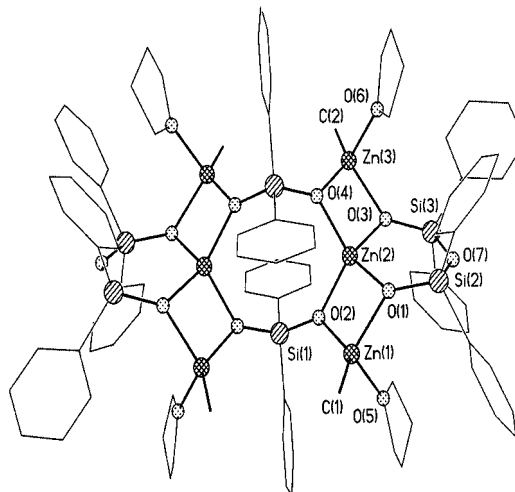
Keywords: Copper / N ligands / Jahn–Teller distortion / EPR spectroscopy



51 K. Merz, H.-M. Hu, S. Rell, M. Driess*

Syntheses and Molecular Structures of Metalla-siloxanes Containing Zn_3O_4 and $\text{Zn}_6\text{Si}_6\text{O}_{10}$ Cores

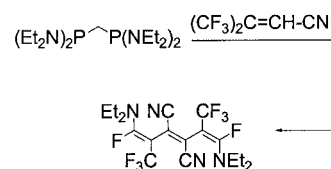
Keywords: Clusters / Oxides / Siloxides / Zinc



54 I. Shevchenko,* V. Andrushko, E. Lork, G.-V. Röschenthaler*

The Unexpected Formation of a Novel Fluorinated Triene

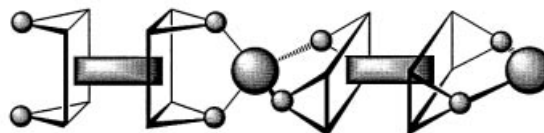
Keywords: Phosphanes / Bis(trifluoromethyl)acrylonitrile / Alkenes / Ylides / Carbenes



57 A. Jouaiti, M. W. Hosseini,* N. Kyritsakas

Molecular Tectonics: Design of 1-D Coordination Networks Based on Pyrene-Bearing Pyr-azolyl Units

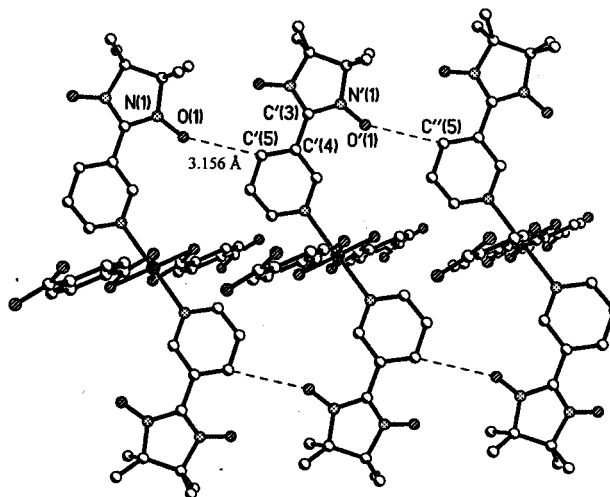
Keywords: N ligands / Coordination networks / Silver / Palladium



62 L. Li,* Z. Liu, S. S. Turner, D. Liao, Z. Jiang,* S. Yan

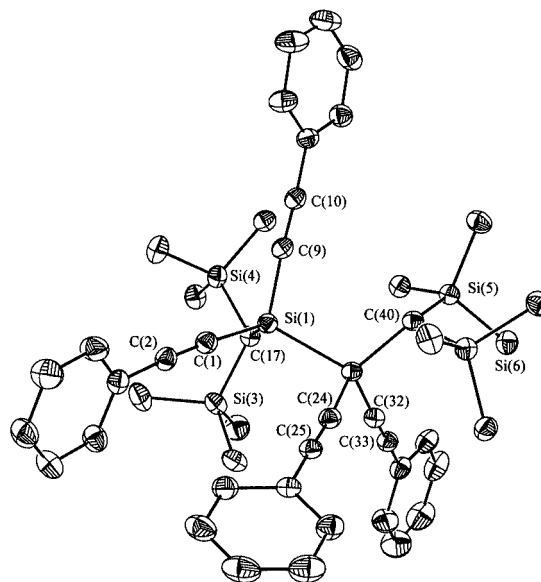
Unique Magnetic Behavior in a One-Dimensional Coordination Polymer $[\text{Co}(\text{tmpy})_2(\text{tp})]$

Keywords: Magnetic properties / Crystal structure / Radicals / Terephthalate



Symmetric Tetraalkynyldisilanes

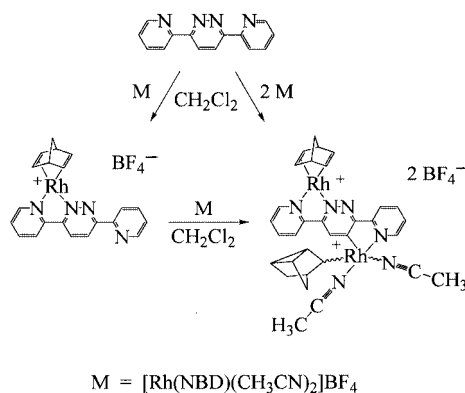
Keywords: Alkynes / Bulky ligands / Silanes / Silicon



FULL PAPERS

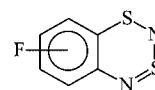
Chelation versus Cyclometalation in a Cationic Dppn–Rh^I Complex – A Unique Rearrangement of Norbornadiene via C–H Activation of the Pyridazine Ring

Keywords: Rhodium complexes / Mono- and dinuclear complexes / C–H activation / Rearrangement of norbornadiene / ¹H-¹⁵N GHMBC NMR / X-ray structure

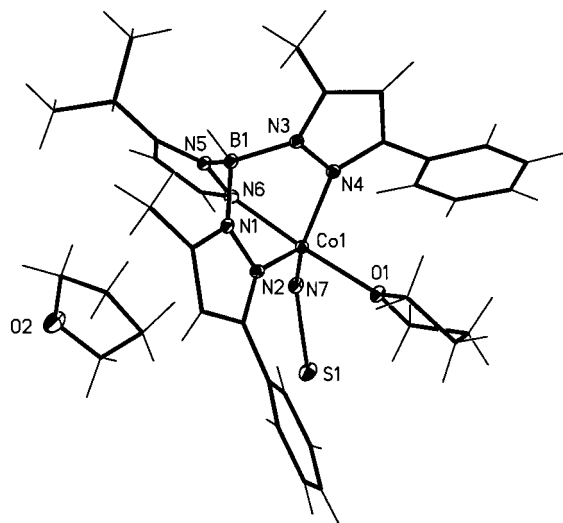


Fluorinated 1,3λ⁴δ²,2,4-Benzodithiadiazines – A Synthetic, Structural and Theoretical Study

Keywords: Antiaromaticity / Fluorinated 1,3λ⁴δ²,2,4-benzodithiadiazines / Electrophilic cyclisation / Molecular structure / NICS / Nucleophilic cyclisation

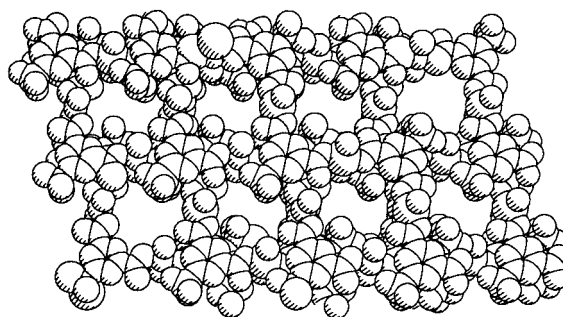


The Ambivalent Bonding of the 3(5)-Isopropylpyrazolyl Moiety in Homo- and Heteroscorpionate Hydrobis(3- R_1 -5- R_2 -pyrazolyl)(γ -isopropylpyrazolyl)boratocobalt(II) Complexes ($\gamma = 3$ or 5)



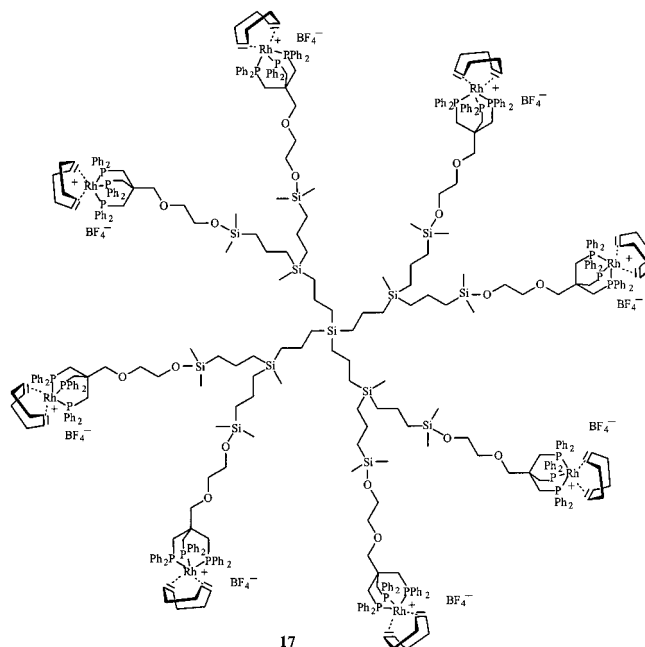
Keywords: Cobalt / Borates / N ligands / NMR spectroscopy

Two New Zeolite-Like Supramolecular Copper Complexes



Keywords: Copper / Supramolecular chemistry / Hydrogen bonds / Zeolite analogues / Amines

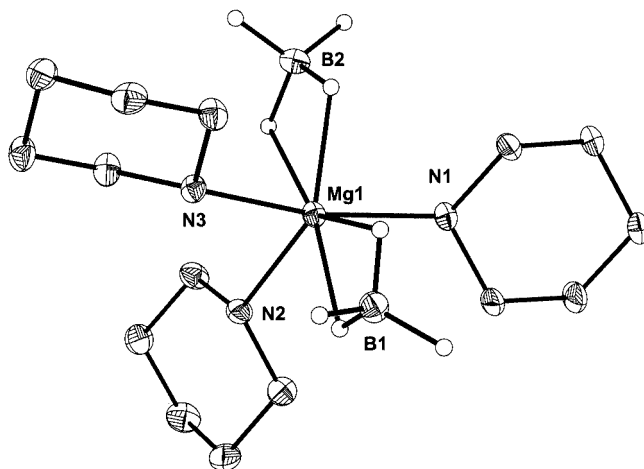
Tripodal Phosphane Ligands with Novel Linker Units and Their Rhodium Complexes as Building Blocks for Dendrimer Catalysts



Keywords: Phosphane ligands / Hydrogenation / Catalysis / Dendrimers / Rhodium

111 M. Bremer, H. Nöth,* M. Warchhold

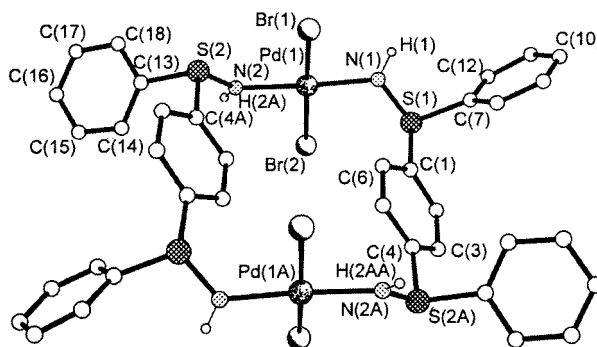
The Structure of Some Amine Solvates of Magnesium Bis(tetrahydroborate) and DFT Calculations on Solvates of Lithium Tetrahydroborate



Keywords: Amine ligands / Borates / Density functional calculations / Lithium / Magnesium

120 M. R. J. Elsegood, K. E. Holmes,
P. F. Kelly,* E. J. MacLean, J. Parr,
J. M. Stonehouse

Preparation of the First Complexes of Bidentate Sulfimides; the X-ray Crystal Structures of $[\text{PdBr}_2\{1,4-(\text{PhS}\{\text{NH}\})_2\text{C}_6\text{H}_4\}]_2$, $[\text{PdCl}_2\{1,2-(\text{PhS}\{\text{NH}\})(\text{PhS})\text{C}_6\text{H}_4\}]$ and *trans*- $[\text{PdCl}_2\{1,2-(\text{PhS}\{\text{NH}\})(\text{PhS})\text{C}_6\text{H}_4\}]\text{PPh}_3$

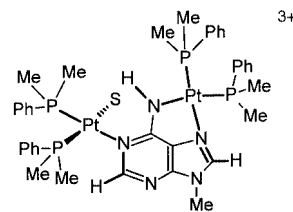


Keywords: S ligands / N ligands / Palladium / Bridging ligands

128 B. Longato, L. Pasquato, A. Mucci,*
L. Schenetti*



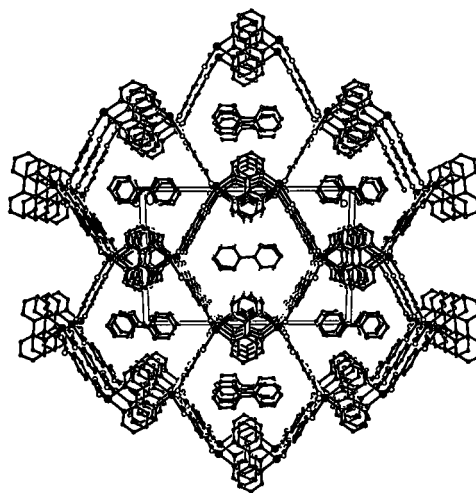
Coordination Modes of 9-Methyladenine in *cis*-Platinum(II) Complexes with Dimethyl(phenyl)phosphanes as Ancillary Ligands – Synthesis and Characterization of *cis*- $[\text{PtL}_2(9\text{-MeAd})_2](\text{NO}_3)_2$, *cis*- $[\text{PtL}_2\{9\text{-MeAd}(-\text{H})\}]_3(\text{NO}_3)_3$, and *cis*- $[\text{L}_2\text{Pt}\{9\text{-MeAd}(-\text{H})\}\text{PtL}_2](\text{NO}_3)_3$



Keywords: Coordination modes / N ligands / NMR spectroscopy / P ligands / Platinum

- 138 X.-M. Zhang, M.-L. Tong, M.-L. Gong,
X.-M. Chen*

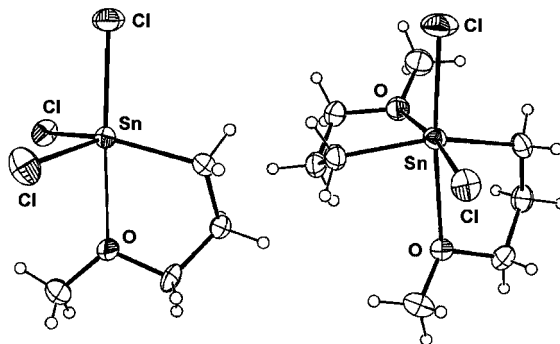
Supramolecular Organisation of Polymeric Coordination Chains into a Three-Dimensional Network with Nanosized Channels that Clathrate Large Organic Molecules



Keywords: Coordination polymers / Microporous materials / Inclusion compounds / Supramolecular chemistry

- 143 T. Lébl,* A. Smička, J. Brus, C. Bruhn

Synthesis, Structural Study, and In Vitro Trypanocidal and Antitumour Activities of Tetrakis(3-methoxypropyl)tin and (3-Methoxypropyl)tin Chlorides

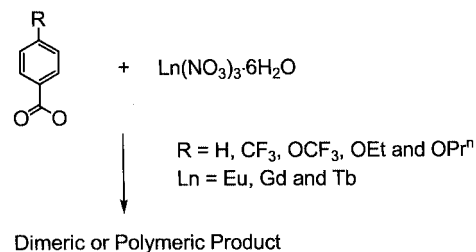


Keywords: Chelates / Drug research / O ligands / Structure elucidation / Tin

- 149 A. W.-H. Lam, W.-T. Wong,* S. Gao,
G. Wen, X.-X. Zhang



Synthesis, Crystal Structure, and Photophysical and Magnetic Properties of Dimeric and Polymeric Lanthanide Complexes with Benzoic Acid and Its Derivatives

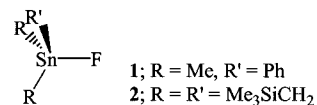


Keywords: Carboxylate ligands / Lanthanides / Luminescence / Magnetic properties

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J. Beckmann, D. Horn, K. Jurkschat,*
 F. Rosche, M. Schürmann, U. Zachwieja,
 D. Dakternieks,* A. Duthie, A. E. K. Lim

Triorganotin Fluoride Structures: A Ligand
 Close-Packing Model with Predominantly Ionic
 Sn–F Bonds

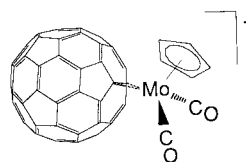


Keywords: Ab initio calculations / Chain structures /
 Hypervalent compounds / Tin / Fluorides /
 X-ray diffraction

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D. M. Thompson, M. Jones, M. C. Baird*

Anionic Cyclopentadienyl C₆₀ Complexes of
 Molybdenum and Tungsten; The Strange Case
 of Iron



Keywords: Fullerenes / Molybdenum / Tungsten / Iron