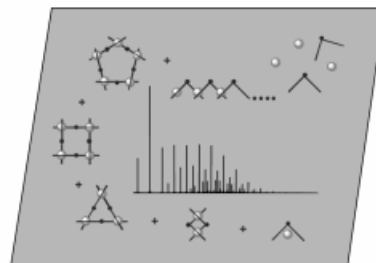


COVER PICTURE

The cover picture shows an electrospray mass spectrum obtained with a time of flight instrument of a mixture of Cu^{II} coordination polymers in solution. For these artificial nanostructures, electrospray mass spectrometry (ESMS) is the only analytical tool allowing an unambiguous characterisation. The largest polymer clearly identified consists of 47 units and has a molecular weight of 32901.4 D. Details are discussed in the article by E. Leize et al. on p. 573 ff.



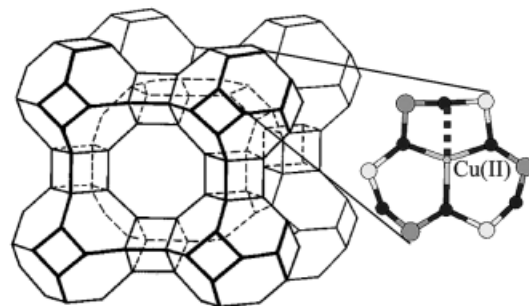
MICROREVIEW

Contents

515 **A. Delabie, K. Pierloot,* M. H. Groothaert,
 R. A. Schoonheydt, L. G. Vanquickenborne**

The Coordination of Cu^{II} in Zeolites – Structure and Spectroscopic Properties

Keywords: Zeolites / Copper / Ab initio calculations / Density functional calculations / ESR spectroscopy / UV/Vis spectroscopy / Heterogeneous catalysis



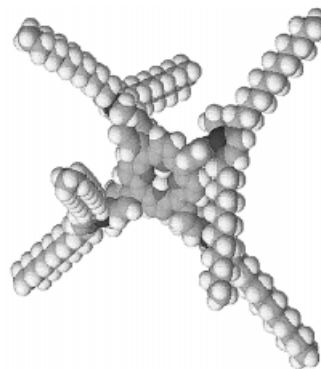
SHORT COMMUNICATIONS

- 531 M. Castriciano, A. Romeo, R. Romeo,
L. Monsu' Scolaro*



Mesoscopic Globular Self-assemblies of Platinum(II) Complexes Containing Porphyrins

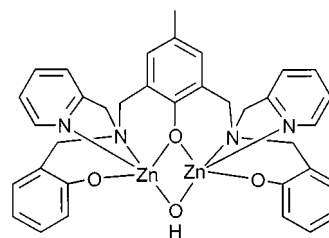
Keywords: Platinum / Porphyrins / Nanostructures / Aggregation / Scanning probe microscopy



- 535 H. Adams, D. Bradshaw, D. E. Fenton*

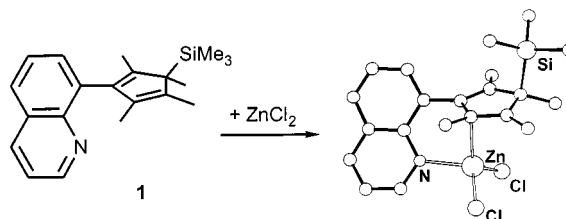
A Dinuclear Zinc(II) Complex of 2,6-bis{[(2-hydroxybenzyl)(2-pyridylmethyl)amino]methyl}-4-methylphenol Bearing an Exogenous Hydroxo Bridge

Keywords: N ligands / O ligands / Bridging ligands / Zinc



- 539 M. Enders,* G. Ludwig, H. Pritzkow

Olefin-Metal π -Interactions of Mercury and Zinc Ions in Complexes of Neutral Quinoly-cyclopentadiene Derivatives

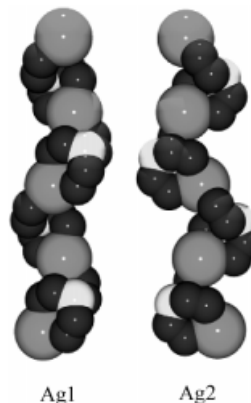


Keywords: Mercury / Zinc / N ligands / π interactions

- 543 D. L. Reger,* R. F. Semeniuc, M. D. Smith

Self-Assembly of a Chiral Three Dimensional Architecture Composed of Two Different Silver(I) Helical Chains Connected by Bitopic Tris(pyrazolyl)methane Ligands

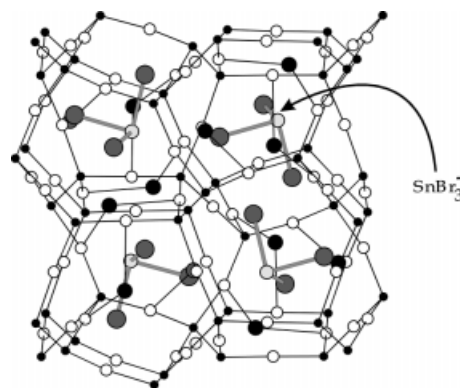
Keywords: Helical structures / Ligand design / Silver / Self-assembly



- 547 A. V. Olenov, A. I. Baranov,
A. V. Shevelkov,* B. A. Popovkin

A New Family of Supramolecular Complexes with 3D Cationic Hg/Z Frameworks, SnX_3^- Guest Anions (Z = P, As, Sb; X = Cl, Br, I): Crystal Structures and Host–Guest Interactions

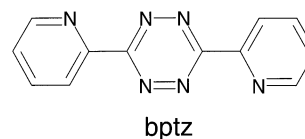
Keywords: Host-guest systems / Tin / Supramolecular chemistry / Mercury / Ab initio calculations / Pnictogens



- 554 K. C. Gordon,* A. K. Burrell, T. J. Simpson,
S. E. Page, G. Kelso, M. I. J. Polson,
A. Flood

Probing the Nature of the Redox Products and Lowest Excited State of $[(\text{bpy})_2\text{Ru}(\mu\text{-bptz})\text{-Ru}(\text{bpy})_2]^{4+}$: A Resonance Raman Study

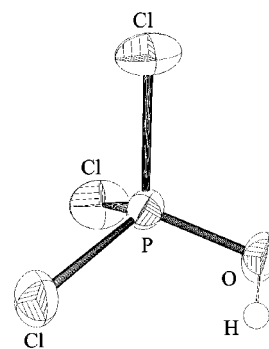
Keywords: Raman spectroscopy / Mixed-valent compounds / Ab initio calculations / Ruthenium(II) / Tetrazines



- 564 R. Minkwitz,* M. Dzyk

Trichlorohydroxyphosphonium Hexafluorometallate – Synthesis, Spectroscopic Characterization and Crystal Structure of $\text{Cl}_3\text{POH}^+\text{AsF}_6^-$

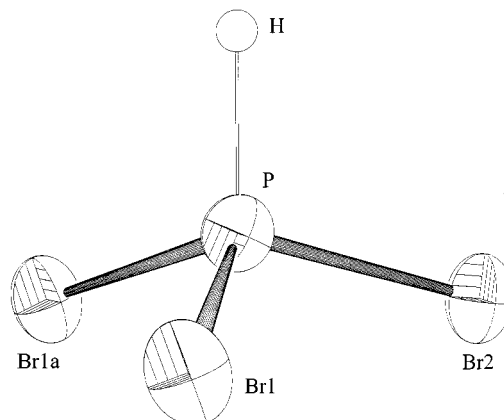
Keywords: Phosphonium salts / Superacidic systems / Structure elucidation / Vibrational spectroscopy



- 569 R. Minkwitz,* M. Dzyk

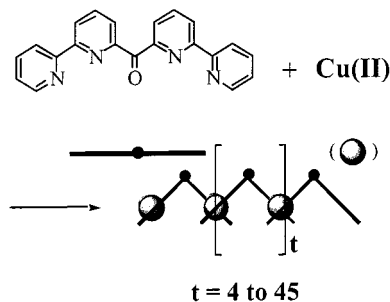
The Crystal Structures of the Trihalogenphosphonium Salts $\text{X}_3\text{PH}^+\text{As}_2\text{F}_{11}^-$ (X = Cl, Br)

Keywords: Phosphonium salts / Protonation / X-ray diffraction / Phosphorus / Main group elements



573 H. Nierengarten, J. Rojo, E. Leize,*
J.-M. Lehn, A. Van Dorsselaer

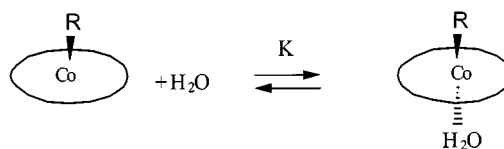
High Molecular Weight Cu^{II} Coordination Polymers and Their Characterisation by Electrospray Mass Spectrometry (ESMS)



Keywords: Supramolecular chemistry / Copper / Polymers / Mass spectrometry / Self-assembly

580 M. S. A. Hamza, R. van Eldik,*
P. L. S. Harper, J. M. Pratt,*
E. A. Betterton

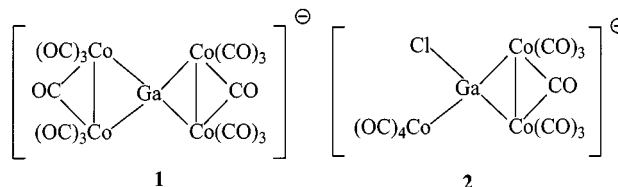
Five-Coordination and Adduct Formation in Co^{III}–Corrinoids – Dissecting Ligand Substitution into Its Component Steps



Keywords: Adduct formation / Reaction mechanisms / Cobalt / Equilibrium / Ligand substitution / High-pressure chemistry / Kinetics

584 E. Leiner, O. Hampe, M. Scheer*

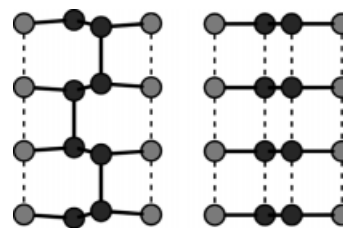
Synthesis and Structure of Novel Complexes of Gallium



Keywords: Metathesis / Iron / Gallium / Cobalt / Cyclopentadienyl ligands

591 C.-S. Lee, H. Kleinke*

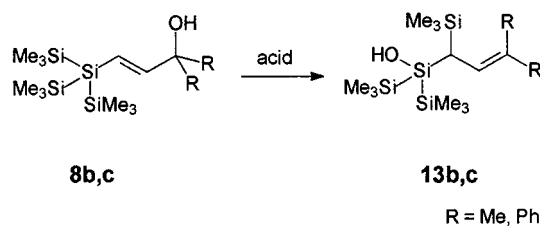
Synthesis, Structure, and Thermoelectric Properties of the New Antimonide Sulfide MoSb₂S



Keywords: Antimony / Sulfur / Materials science / Chalcogens / Molybdenum

597 K. Schmohl, D. Wandschneider, H. Reinke,
A. Heintz, H. Oehme*

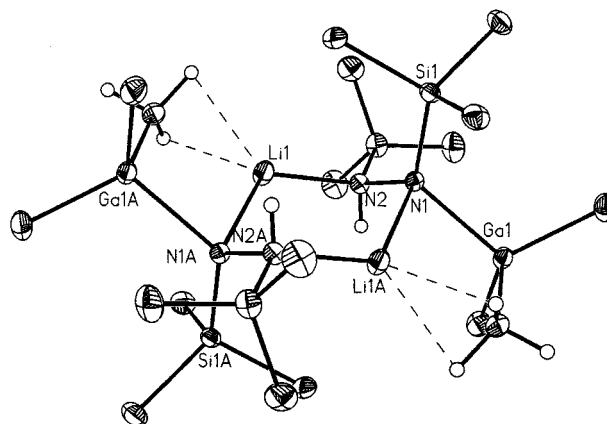
The Cationic Rearrangement of (3-Hydroxy-1-propenyl)tris(trimethylsilyl)silanes into (1-Trimethylsilyl-2-propenyl)bis(trimethylsilyl)silanols – Experimental and Theoretical Studies



Keywords: Alcohols / Rearrangements / Silanes / Silicon

Hydrazino Derivatives of Gallanes and Indanes – Synthesis and Structures

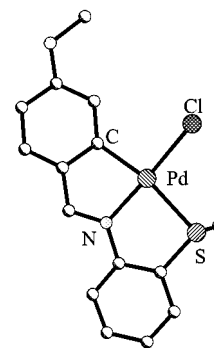
Keywords: Gallium / Indium / Cage compounds / Cleavage reactions / Hydrolysis



613 A. Amoedo, M. Graña, J. Martínez,
T. Pereira, M. López-Torres, A. Fernández,
J. J. Fernández, J. M. Vila*

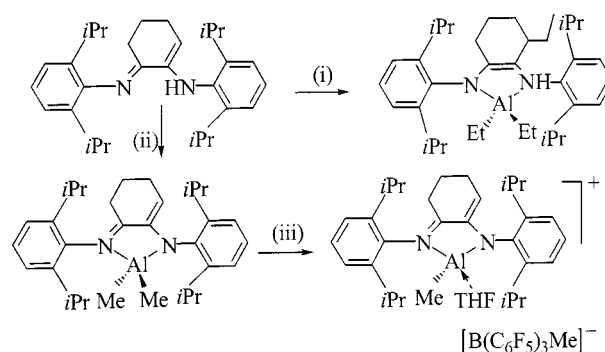
A Comparative Study of Cyclometallated Palladium(II) Compounds with Terdentate [C,N,S] Pincer Ligands – Crystal and Molecular Structure of $[\text{Pd}\{4\text{-MeC}_6\text{H}_3\text{C}(\text{Me})=\text{NNC}(=\text{S})\text{-NHMe}\}(\text{PPh}_3)]$ and $[\text{Pd}\{4\text{-MeOC}_6\text{H}_3\text{C}(\text{H})=\text{N}[2\text{-(SMe)C}_6\text{H}_4]\}(\text{Cl})]$

Keywords: C–H activation / Palladium / S ligands / Schiff bases



621 D. Pappalardo,* C. Tedesco, C. Pellecchia

New Neutral and Cationic Dialkylaluminum Complexes Bearing Imino-Amide or Imino-Phenoxide Ligands: Synthesis, Characterization and Reactivity With Olefins



Keywords: Alkenes / N ligands / N,O ligands / Polymerization / Aluminum

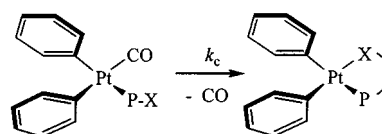
(i) heptane, AlEt_3 ; (ii) heptane, AlMe_3 ; (iii) $\text{B}(\text{C}_6\text{F}_5)_3$, THF

629 R. Romeo,* L. M. Scolaro, M. R. Plutino,
A. Romeo, F. Nicolo, A. Del Zotto



Ring Closure Kinetics of Bidentate Hemilabile P,N and P,S Ligands on a Platinum(II) Complex

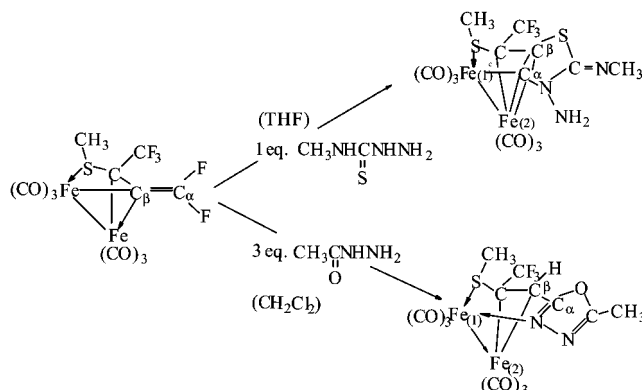
Keywords: N,P ligands / Kinetics / Platinum / Hydrogen bonds / Chelate effect



639 K. Guennou de Cadenet, R. Rumin,
F. Y. Pétillon,* D. S. Yufit, K. W. Muir*

Activation and Functionalization of Vinylic C–F Bonds by Transition Metal Compounds: The Factors Determining Reactions between Nucleophiles and a (Perfluorovinyl)diiron(I) Complex; Syntheses of Diiron Derivatives Containing New C–N, C–S, C–H and C–O Bonds

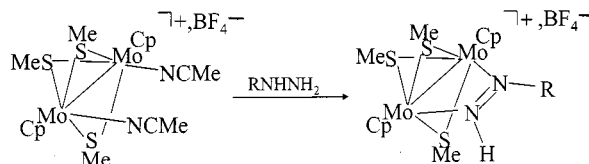
Keywords: F activation / C–N, C–S coupling / Carbenes / Nucleophiles / Vinyl complexes



658 P. Schollhammer, B. Didier, N. Le Grand,
F. Y. Pétillon,* J. Talarmin, K. W. Muir,*
S. J. Teat

Transformations of Hydrazines RNHNH₂ (R = Me, Ph) at a Sulfur-Rich Bimetallic Site: Diazene–Diazenido–Isodiazeno/Hydrazido–(2–) Interconversions

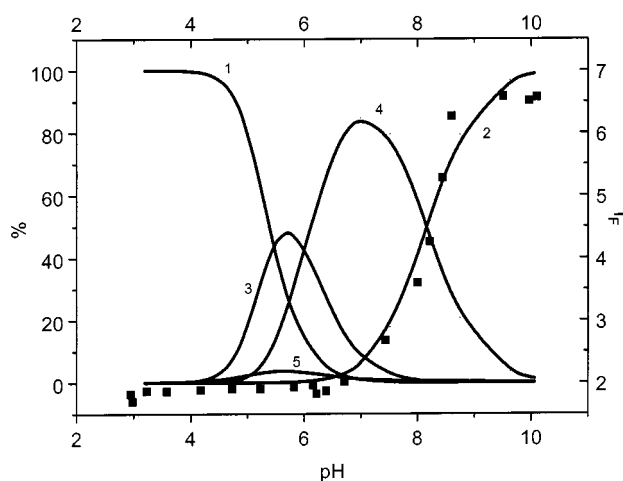
Keywords: N ligands / S ligands / X-ray diffraction / Metal-metal interactions / Molybdenum



664 L.-J. Liang, Q.-H. Luo,* Q.-X. Li,
M.-C. Shen, H.-W. Hu

New Fluorenyl-Substituted Dioxotetraamine Ligands and Their Copper(II) Complexes – Crystal Structure and Fluorescent Sensing Properties in Aqueous Solution

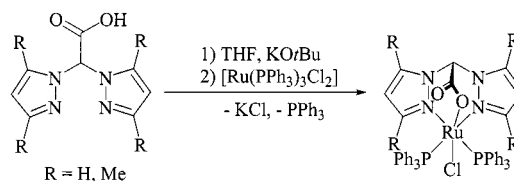
Keywords: Copper / Dioxotetraamines / Fluorescence / N ligands



671 A. López-Hernández, R. Müller, H. Kopf,
N. Burzlaff*

Bis(pyrazol-1-yl)acetato Ligands in Ruthenium Chemistry: Syntheses and Structures of Ruthenium(II) and Ruthenium(III) Complexes with bpza and bdmppza

Keywords: Ruthenium / N ligands / Scorpionates / Tripodal ligands / Structural chemistry

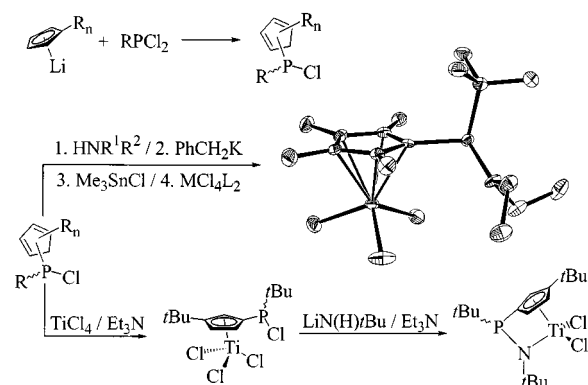


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V. V. Kotov,* E. V. Avtomonov,*
J. Sundermeyer, K. Harms,
D. A. Lemenovskii

Alkyl(amino)- and Alkyl(chloro)phosphanyl-
Substituted Cyclopentadienyl Complexes of
Titanium and Zirconium

Keywords: Titanium / Zirconium / Cyclopentadienyl
ligands / P ligands / Polymerisation

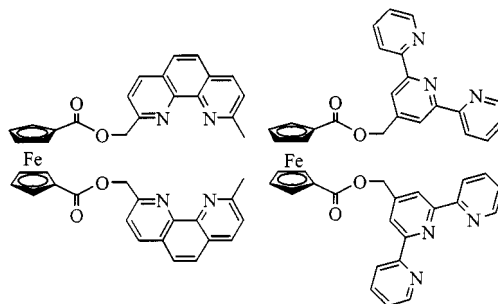


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J.-C. Moutet,* E. Saint-Aman, G. Royal,
S. Tingry, R. Ziessel

Electrochemical and Complexation Studies of
Ferrocenyl Complexes Bearing Terpyridine or
Phenanthroline Ligands

Keywords: N ligands / Sandwich complexes / Recep-
tors / Cyclic voltammetry

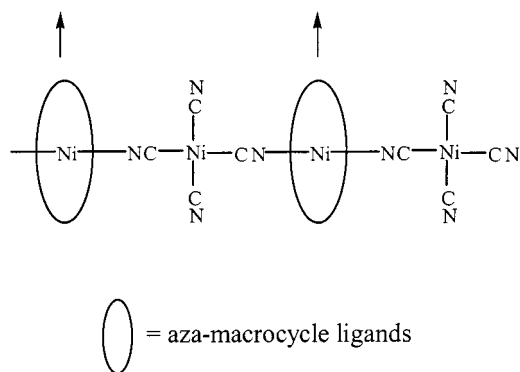


699

H.-Z. Kou, S.-F. Si, S. Gao, D.-Z. Liao,*
Z.-H. Jiang, S.-P. Yan, Y.-G. Fan,
G.-L. Wang

Two Ferromagnetic One-Dimensional Nickel(II)
Complexes Containing the Diamagnetic
[Ni(CN)₄]²⁻ Group

Keywords: Cyanides / Bridging ligands / Nickel /
Magnetic properties / Crystal structure

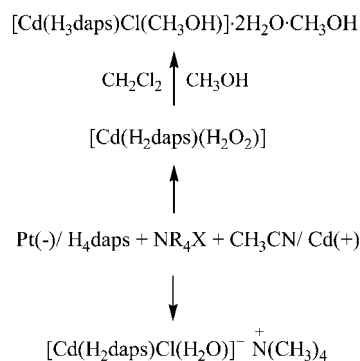


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M. Fondo, A. Sousa, M. R. Bermejo,
A. García-Deibe, A. Sousa-Pedrares,
O. L. Hoyos, M. Helliwell

Electrochemical Synthesis and X-ray Character-
isation of Cadmium Complexes Containing 2,6-
Bis(1-salicyloylhydrazonoethyl)pyridine – the
Influence of the Supporting Electrolyte on the
Nature of the Isolated Compounds

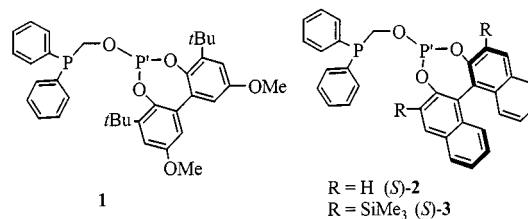
Keywords: N ligands / Cadmium / Electrochemistry



711 C. G. Arena, F. Faraone,* C. Graiff,
A. Tiripicchio

Rhodium(I), Palladium(II), and Platinum(II) Complexes Containing New Mixed Phosphane–Phosphite Ligands – Effect of the Catalytic System Stability on the Enantioselective Hydroformylation of Styrene

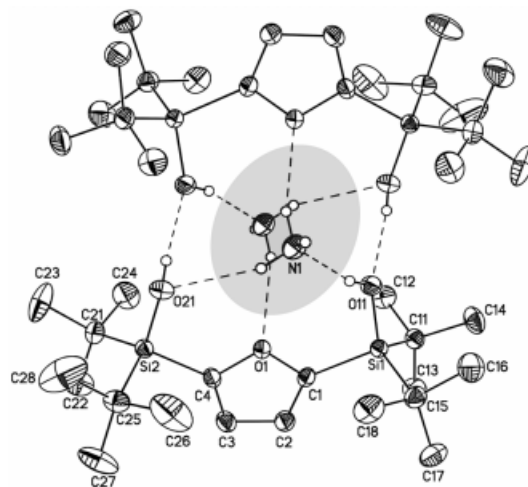
Keywords: Rhodium / Palladium / Platinum / Chirality / P ligands / Hydroformylation



717 U. Klingebiel,* P. Neugebauer, I. Müller,
M. Noltemeyer, I. Usón

2,5-Bis(di-*tert*-butylhydroxysilyl)furan as a Host Molecule for Potassium Fluoride, H₂O, NH₃ and MeNH₂

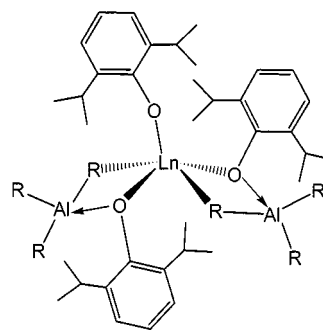
Keywords: Silicon / Furan / Host-guest complexes / Structure elucidation



723 G. R. Giesbrecht, J. C. Gordon,* J. T. Brady,
D. L. Clark, D. W. Keogh, R. Michalczyk,
B. L. Scott, J. G. Watkin

Interactions of Remote Alkyl Groups with Lanthanide Metal Centers: Synthesis, Characterization and Ligand Redistribution Reactions of Heterobimetallic Species Containing Trialkyl-aluminum Fragments

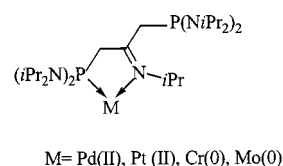
Keywords: Lanthanides / Samarium / Aluminum / O ligands / Agostic interactions



732 F. Dahan, P. W. Dyer,* M. J. Hanton,
M. Jones, D. M. P. Mingos, A. J. P. White,
D. J. Williams, A.-M. Williamson

Synthesis and Reactivity of Group 6 and 10 Complexes of the Bis(dialkylaminophosphanyl)-imine $i\text{PrN}=\text{C}[\text{CH}_2\text{P}(\text{NiPr}_2)_2]_2$

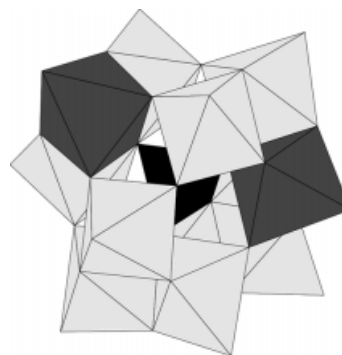
Keywords: P,N ligands / Chelates / Diaminophosphanes / Imines / Palladium



743 A. Selling,* I. Andersson, J. H. Grate,
L. Pettersson

Reduced Molybdovanadophosphates

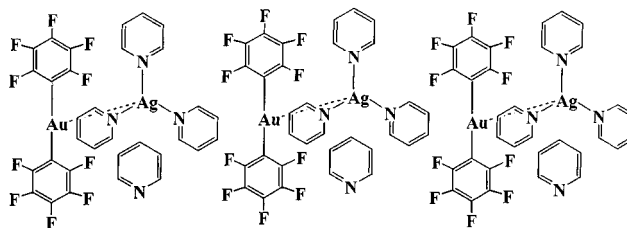
Keywords: Polyoxometalates / NMR spectroscopy / Redox chemistry / Speciation / Formation constants



750 E. J. Fernández, A. Laguna,*
J. M. López-de-Luzuriaga, M. Monge,
P. Pyykkö,* N. Runeberg

A Study of the Interactions in an Extended Unsupported Gold-Silver Chain

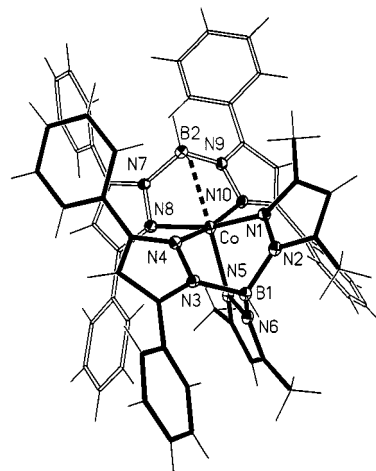
Keywords: Gold / Silver / Ab initio calculations / N ligands



754 T. Ruman, Z. Ciunik, J. Mazurek,
S. Wolowiec*

Anionic Poly(pyrazolyl)borate Ligands Obtained from 3,5-Dimethylpyrazole and 3,5-Diphenylpyrazole and Their Cobalt(II) Complexes – X-ray Crystallographic and ¹H NMR Studies

Keywords: Cobalt / Borates / X-ray diffraction / NMR spectroscopy / N ligands



761 R. Vogler, H. Vahrenkamp*

Dipeptides Made up Solely from Histidine: Solution Behaviour and Zinc Complexation

Keywords: Zinc / Peptides / Histidine / Complex stabilities

