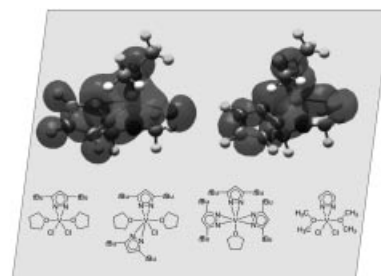


COVER PICTURE

The cover picture shows the structures of several vanadium(III) complexes that contain η^2 -pyrazolato ligands, along with orbital interactions that stabilize the η^2 -pyrazolato ligand bonding mode. Details are discussed in the article by C. H. Winter et al. on p. 2327 ff.



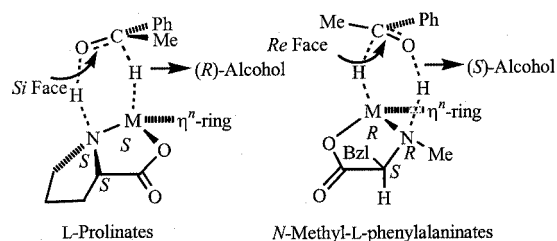
MICROREVIEW

Contents

2239 D. Carmona,* M. P. Lamata, L. A. Oro

Half-Sandwich Complexes with Aminocarboxylate Ligands and Their Use as Enantioselective Hydrogen Transfer Catalysts

Keywords: Chiral-at-metal complexes / Asymmetric hydrogen transfer catalysis / Rhodium / Ruthenium / Iridium / Osmium / Amino-carboxylate ligands

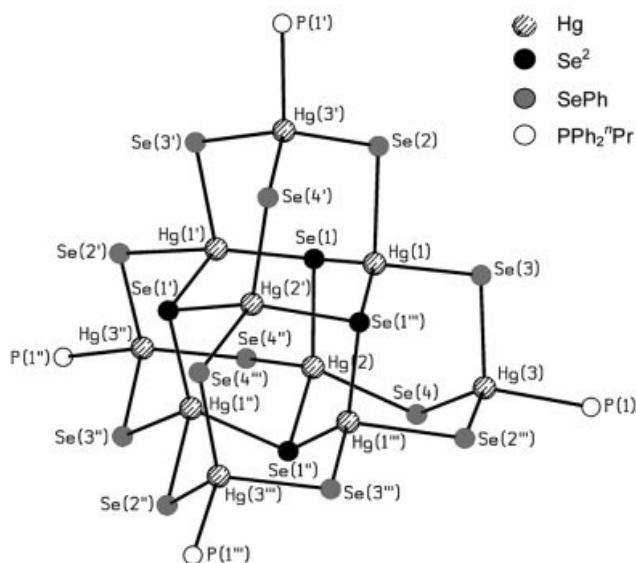


SHORT COMMUNICATIONS

2253 A. Eichhöfer,* E. Tröster

Synthesis and Structure of the new cluster $[\text{Hg}_{10}\text{Se}_4(\text{SePh})_{12}(\text{PPh}_2n\text{Pr})_4]$ and its Conversion into $[\text{Hg}_{32}\text{Se}_{14}(\text{SePh})_{36}]$

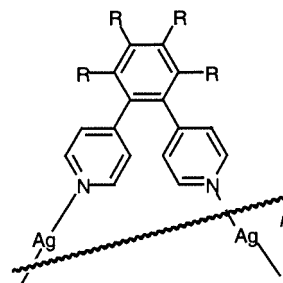
Keywords: Cluster compounds / Mercury / Selenium / UV/Vis spectroscopy



2257 P. J. Steel,* N. C. Webb

Diels–Alder Synthesis of Rigid 60° Angular Bridging Ligands and X-ray Crystal Structures of their Silver Nitrate Complexes

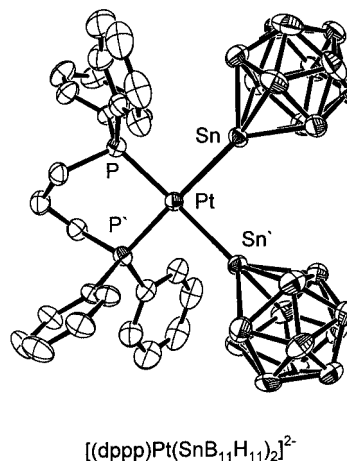
Keywords: Silver / Coordination polymers / Bridging ligands / Self-assembly / N ligands



2261 L. Wesemann,* S. Hagen, T. Marx,
I. Pantenburg, M. Nobis,
B. Drießen-Hölscher*

Reactivity of Platinum Stanna-*closo*-dodecaborate Complexes: First Hydroformylation Studies

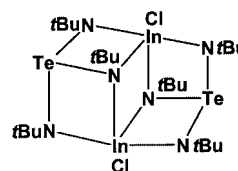
Keywords: Boranes / Cluster compounds / Homogeneous catalysis / Platinum / Tin



2266 T. Chivers,* G. Schatte

A New Coordination Mode for the Tripodal $[\text{Te}(\text{N}t\text{Bu})_3]^{2-}$ Dianion: Preparation and Structures of $\{\text{ClIn}[\text{Te}(\text{N}t\text{Bu})_3]\}_2$ and $\{\text{LiIn}[\text{Te}(\text{N}t\text{Bu})_3]_2\} \cdot \text{LiCl}$

Keywords: Indium / Tellurium / Imido compound / Tridentate ligand

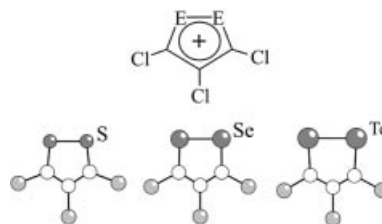


FULL PAPERS

2271 J. Beck,* A. Hormel, M. Koch

1,2-Dichalcogenolylium Ions $(C_3Cl_3E_3)^+$ from Equilibria Involving Dichalcogen Dichlorides E_2Cl_2 ($E = S, Se, Te$) – Syntheses and Crystal Structures of $(C_3Cl_3S_2)Cl$, $(C_3Cl_3Se_2)Cl$, and $(C_3Cl_3Te_2)_2[Te_2Cl_{10}]$

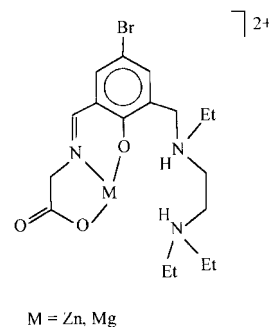
Keywords: Chalcogens / Heterocycles / Cations / Solvothermal synthesis



2276 J. Hermann, D. Schumacher, A. Erxleben*

Anion-Dependent Substitution of Zinc by Magnesium in Mononuclear Schiff Base Complexes

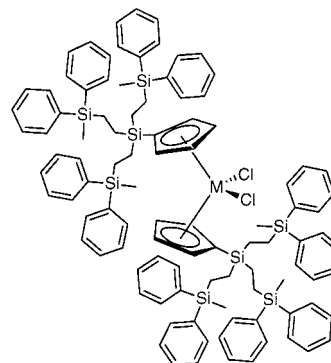
Keywords: Schiff bases / Zinc / Magnesium / Crystal structures



2281 R. Andrés,* E. de Jesús,* F. J. de la Mata, J. C. Flores, R. Gómez

Titanocene and Zirconocene Complexes containing Dendrimer-Substituted Cyclopentadienyl Ligands – Synthesis and Ethylene Polymerization

Keywords: Metallocenes / Dendrimers / Titanium / Zirconium / Substituent effects

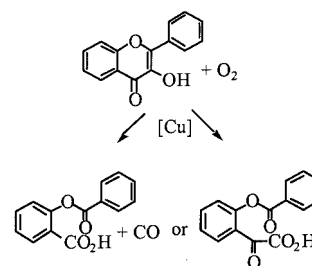


2287 E. Balogh-Hergovich, J. Kaizer, J. Pap, G. Speier,* G. Huttner, L. Zsolnai



Copper-Mediated Oxygenolysis of Flavonols via Endoperoxide and Dioxetan Intermediates; Synthesis and Oxygenation of $[Cu^{II}(Phen)_2(Fla)]-ClO_4$ and $[Cu^{II}(L)(Fla)_2]$ [$FlaH$ = Flavonol; L = 1,10-Phenanthroline (Phen), 2,2'-Bipyridine (Bpy), N,N,N',N' -Tetramethylethylenediamine (TMEDA)] Complexes

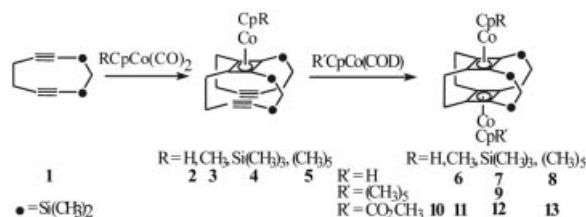
Keywords: Enzyme models / Copper / Peroxides / Kinetics



2296 R. J. Schaller, G. Haberhauer, R. Gleiter,* F. Rominger

Synthesis and Properties of Donor/Acceptor-Substituted Metal-Capped Twofold-Sila-Bridged Cyclobutadieno Superphanes

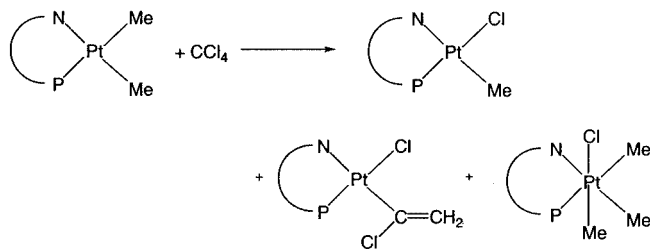
Keywords: Donor-acceptor systems / Phanes / Cyclic voltammetry / Electron transfer / Cobalt



2305 F. Stöhr, D. Sturmayer, G. Kickelbick,
U. Schubert*

C–Cl and Si–Cl Activation by *P,N*-Chelated
Pt^{II} Complexes

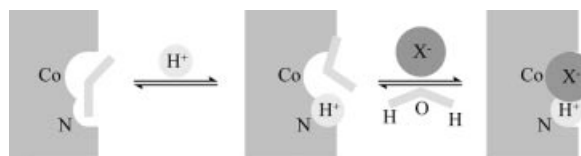
Keywords: Platinum / Silicon / Hemilabile ligands /
Oxidative addition / Halogen compounds



2312 M. Robitzer, C. Sirlin,* N. Kyritsakas,
M. Pfeiffer*

Molecular Recognition of Anions by a Novel
Organocobalt Receptor: Oxyanion versus Halide
Selectivity in Water

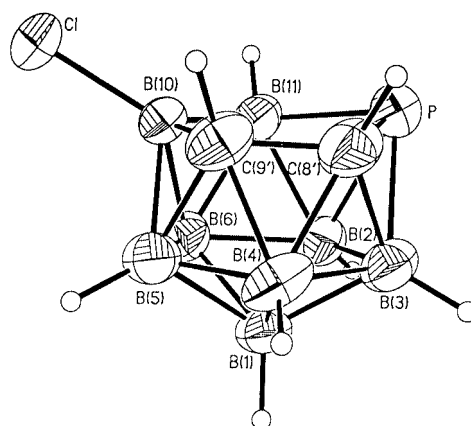
Keywords: Host-Guest Systems / Cobalt / N,C ligand /
Anions / Allosterism



2320 B. Štíbr,* J. Holub, M. Bakardjiev, D. Hnyk,
O. L. Tok, W. Milius, B. Wrackmeyer

Phosphacarborane Chemistry: The Synthesis of
the Parent Phosphadiboranes *nido*-7,8,9-
PC₂B₈H₁₁ and [*nido*-7,8,9-PC₂B₈H₁₀][−], and
Their 10-Cl Derivatives – Analogs of the Cyclo-
pentadienide Anion

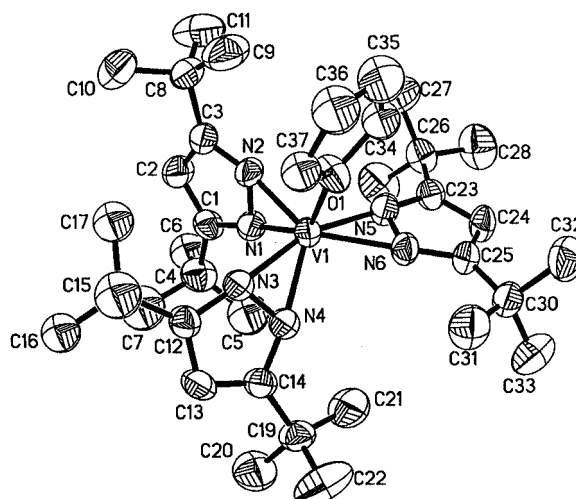
Keywords: Ab initio calculations / Boranes /
Clusters / Phosphorus



2327 K. R. Gust, J. E. Knox, M. J. Heeg,
H. B. Schlegel, C. H. Winter*

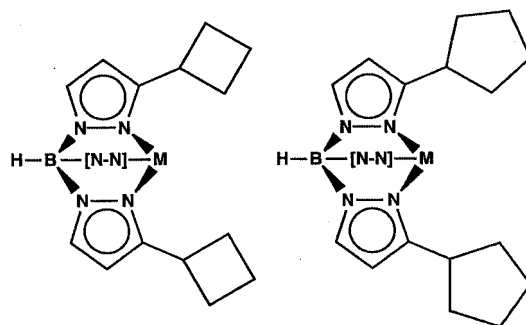
Synthesis, Structure, and Molecular Orbital
Calculations of (Pyrazolato)vanadium(III) Com-
plexes – Understanding η^2 -Pyrazolato Ligand
Coordination on d² Metal Centers

Keywords: Vanadium / Pyrazolato ligands / Ab initio
calculations / N ligands / Coordination
modes



2335 A. L. Rheingold, G. P. A. Yap,
L. N. Zakharov, S. Trofimenko*

Homoscorpionate Ligands Based on 3-(Cyclobutyl)pyrazole and 3-(Cyclopentyl)pyrazole



M[Tp^{Cbu}]

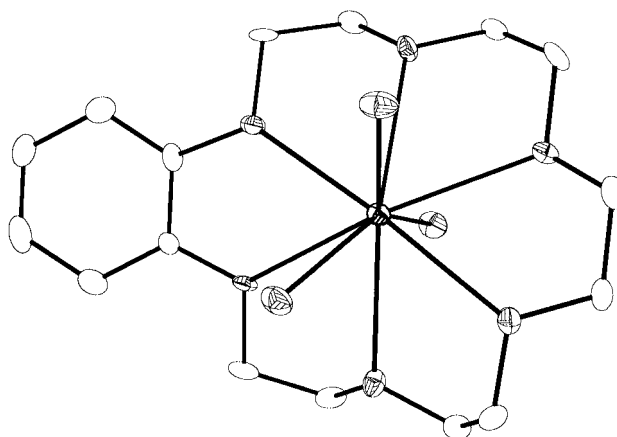
M[Tp^{Cpe}]

-(N-N)- is the third, hidden, 3-cycloalkylpyrazolyl ring

Keywords: Scorpionates / Cobalt / Borates / N ligands

2344 P. Starynowicz,* K. Bukietyńska, S. Gołąb,
W. Ryba-Romanowski, J. Sokolnicki

Europium(II) Complexes With Benzo-18-Crown-6

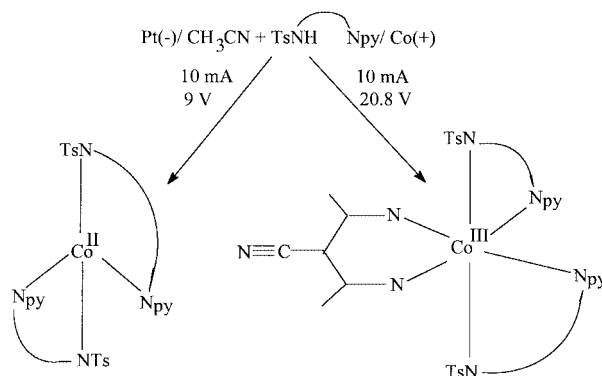


Keywords: Europium / Lanthanides / Crown compounds / X-ray diffraction / Luminescence

2348 M. L. Durán, J. A. García-Vázquez,*
C. Gómez, A. Sousa-Pedrares, J. Romero,
A. Sousa*

Electrochemical Synthesis of Cobalt Complexes with 4-Methyl-*N*-(2-pyridylmethyl)benzenesulfonamide (HL) – Crystal Structures of HL, [Co^{II}L₂] and [Co^{III}L₂L^o] [L^o = {HNC-(CH₃)₂C(CN)}]

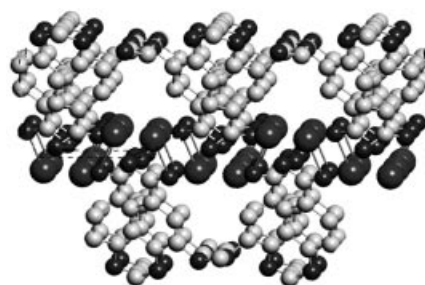
Keywords: Cobalt / Electrochemistry / N ligands / X-ray crystal structures



2355 O. Kristiansson

Structures of Complexes of Thallium(I) and Functionalized Benzoate Ligands with Pronounced Stereoactivity of the Lone Pair of Electrons and Metal–Phenyl π -Bonding

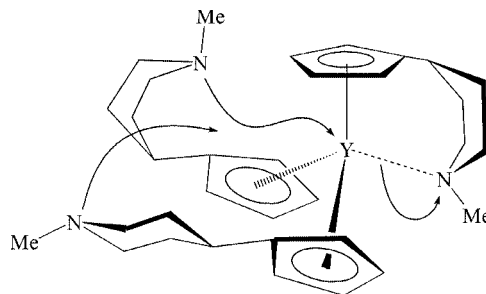
Keywords: Thallium(I) / Stereoactive inert pair / Thallophilic interaction / Coordination polymer / Metal–phenyl π -bonding



2362 M. M. Corradi, M. A. D. McGowan,
P. C. McGowan,* M. Thornton-Pett

The Synthesis and Structure of Bis- and Tris(amino)-Functionalised Cyclopentadienyl-yttrium Derivatives Bis- and Tris(amino)-Functionalised Cyclopentadienyl-yttrium Derivatives

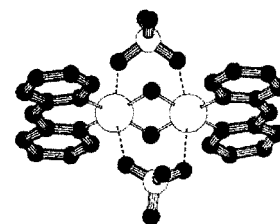
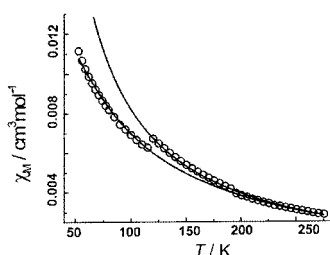
Keywords: N ligands / Cyclopentadienyl ligands / Yttrium



2367 S. Youngme, G. A. van Albada,
H. Kooijman, O. Roubeau,
W. Somjitsripunya, A. L. Spek,
C. Pakawatchai, J. Reedijk*

A Unique Dinuclear Cu^{II} Compound with Two Phase Transitions Clearly Visible from Thermal and Magnetic Behaviour; Synthesis, Magnetism and X-ray Structures at Three Temperatures of Bis(di-2-pyridylamine)bis(μ -hydroxo)bis(μ -perchlorato-*O,O*)dicopper(II)

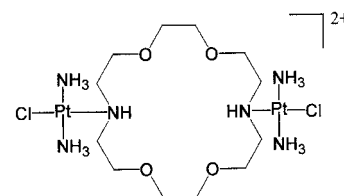
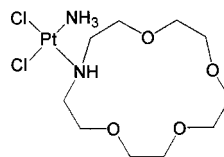
Keywords: Copper / Bridging ligands / Magnetic properties / Phase transitions / X-ray structure



2375 B. A. J. Jansen, P. Wielaard, H. den Dulk,
J. Brouwer, J. Reedijk*

Oxa-aza Crown Ethers as Ligands for Mixed-Ligand Cisplatin Derivatives and Dinuclear Platinum Anticancer Drugs

Keywords: Anticancer drugs / Platinum / DNA binding / Crown ethers / A2780 human ovarian cancer

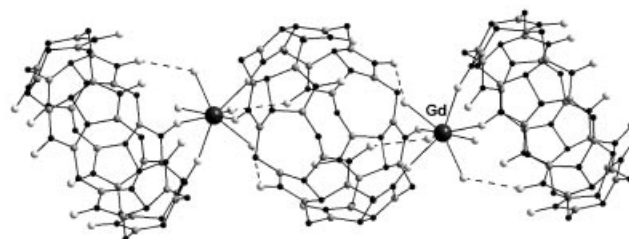


2380 D. G. Samsonenko, J. Lipkowski,
O. A. Gerasko, A. V. Virovets,
M. N. Sokolov, V. P. Fedin,* J. G. Platas,
R. Hernandez-Molina, A. Mederos



Cucurbituril as a New Macrocyclic Ligand for Complexation of Lanthanide Cations in Aqueous Solutions

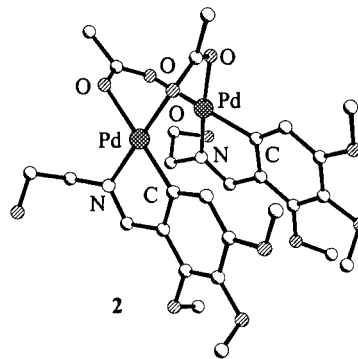
Keywords: Lanthanides / Solid-state structures / Supramolecular chemistry / Aqua complexes / Cucurbituril



2389 A. Fernández,* D. Vázquez-García,
J. J. Fernández, M. López-Torres,
A. Suárez, S. Castro-Juiz, J. M. Vila*

The First Crystal and Molecular Structure of a *syn*-Acetato-Bridged Dinuclear Cyclometallated Complex $[\text{Pd}\{2,3,4-(\text{MeO})_3\text{C}_6\text{HC}(\text{H})=\text{NCH}_2\text{-CH}_2\text{OH}\}(\mu\text{-OAc})]_2$

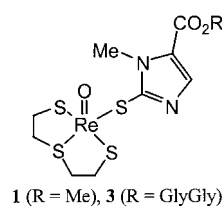
Keywords: C-H activation / Cyclometallation / P ligands / Schiff bases / Palladium



2402 E. Palma, J. D. G. Correia, Â. Domingos,
I. Santos*

New Mixed-Ligand Re^{V} Complexes with Bis-(2-mercaptoethyl) Sulfide and Functionalized Thioimidazolyl Ligands

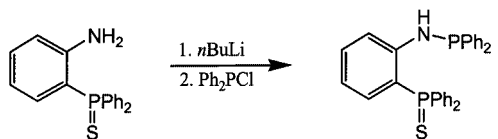
Keywords: S ligands / Rhenium / Peptides / N ligands



2408 S. M. Aucott, A. M. Z. Slawin,
J. D. Woollins*

Synthesis and Late Transition Metal Complexes of the Heterofunctional Phosphane *o*-Ph₂-PNHC₆H₄P(S)Ph₂

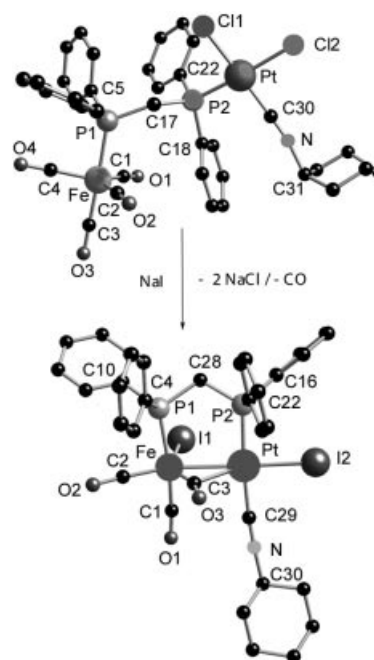
Keywords: Phosphorus–sulfur ligands / Monodentate complexes / Chelate complexes



2419 M. Knorr,* I. Jourdain, G. Crini, K. Frank,
H. Sachdev, C. Strohmann

Synthesis, Reactivity and Molecular Structures of Bis(diphenylphosphanyl)methane-Bridged Heterobimetallic Iron–Platinum Isocyanide Complexes: Breaking and Formation of Metal–Metal Bonds

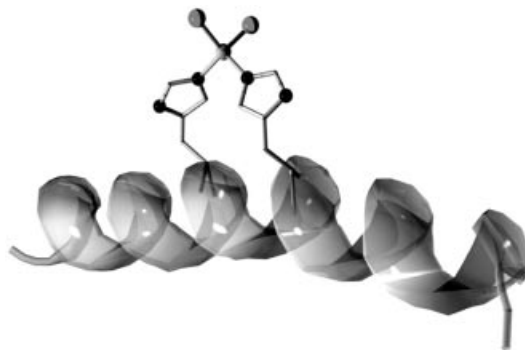
Keywords: Heterobimetallics / Isocyanide ligands / Metal–metal interactions / Iron / Platinum



2458 M. Gelinsky, H. Vahrenkamp*

Zinc Complexes of a Helical 22-mer Peptide with Two Histidine Donors

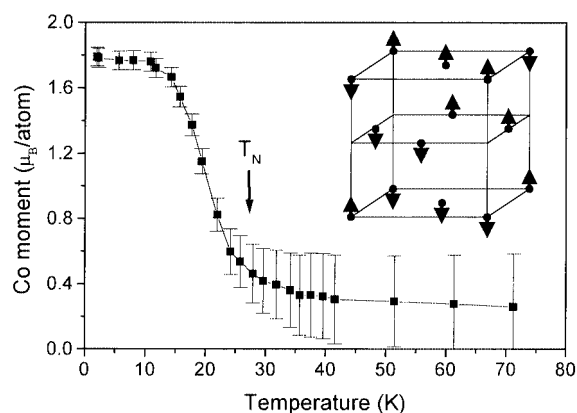
Keywords: Zinc / Peptides / Bioinorganic chemistry / Enzyme mimics



2463 M. J. Martínez-Lope, J. A. Alonso,*
M. T. Casais, M. T. Fernández-Díaz

Preparation, Crystal and Magnetic Structure of the Double Perovskites Ba_2CoBO_6 (B = Mo, W)

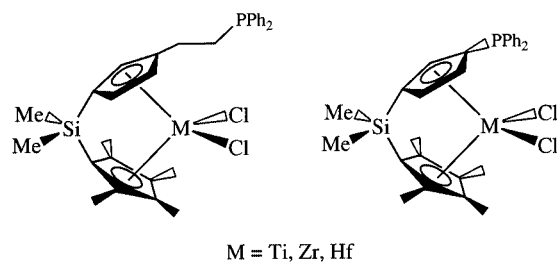
Keywords: Perovskite structure / Neutron diffraction / Magnetic properties / Antiferromagnetic ordering / Cobalt



2470 A. Antiñolo, R. Fernández-Galán, I. Orive,
A. Otero,* S. Prashar

New Group 4 Metallocene and Niobocene Complexes Containing Phosphane-Functionalized *ansa*-Ligands

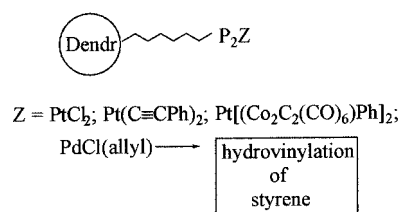
Keywords: Metallocenes / Niobium / Phosphane ligands / Homogeneous catalysis / Insertion



2477 M. Benito, O. Rossell,* M. Seco,
G. Muller, J. I. Ordinas, M. Font-Bardia,
X. Solans

Palladium and Platinum Units Grafted on the Periphery of Carbosilane Dendrimers

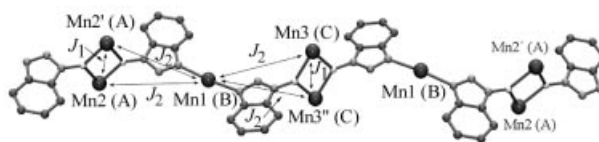
Keywords: Dendrimers / Alkynes / Homogeneous catalysis / Palladium / Platinum



- 2488** G. S. Papaefstathiou, R. Vicente,
C. P. Raptopoulou, A. Terzis, A. Escuer,
S. P. Perlepes*

A One-Dimensional Manganese(II) Coordination Polymer Derived from Zerovalent Manganese and 1-Hydroxybenzotriazole – Synthesis, Characterization, Crystal Structure and Magnetic Properties

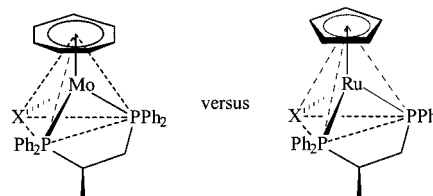
Keywords: Coordination polymers / Nitrogen heterocycles / Magnetic properties / Manganese / X-ray crystal structure



- 2494** H. Brunner,* J. Klankermayer, M. Zabel

Synthesis, Stereochemistry and Molecular Structures of Chiral-at-Metal (Cycloheptatrienyl)-molybdenum Complexes Containing the Diphosphane Prophos

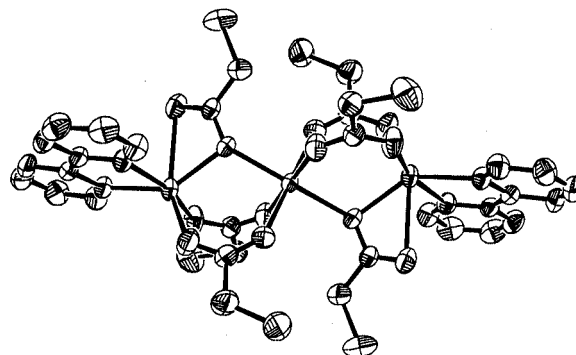
Keywords: Chirality / Molybdenum / Half-sandwich complexes / Configuration determination



- 2502** G. Fernández, M. Corbella,* J. Mahía,
M. A. Maestro

Polynuclear Mn^{II} Complexes with Chloroacetate Bridge – Syntheses, Structure, and Magnetic Properties

Keywords: Manganese / Crystal structures / Magnetic properties / EPR spectroscopy / Bridging ligands



- 2511** T. M. Klapötke,* H. Nöth, T. Schütt,
M. Suter

Mixed Chloride/Azide Complexes of Arsenic and Antimony

Keywords: Azides / Antimony / Arsenic / Lewis acids / Lewis bases / Density functional calculations

