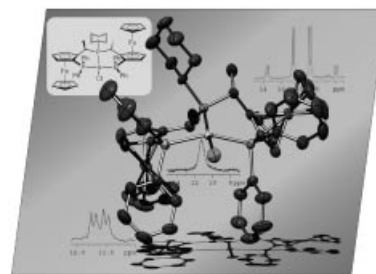


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COVER PICTURE

The cover picture shows the X-ray crystal structure of the complex [IrCl(Pigiphos)], where Pigiphos is a unique chiral tridentate ligand containing two ferrocenyl units. Enantiomerically pure triphosphanes are still quite rare and Pigiphos is particularly attractive because of its simple synthesis – one step from commercially available precursors. The study of the coordination chemistry of Pigiphos has shown that it can accommodate metal ions in essentially perfect square-planar geometries (Ni^{II}, Pd^{II}, Ph^I). In case of an octahedral coordination sphere it can adopt both a facial or an equatorial configuration (Ru^{II}). However, the present [IrCl(Pigiphos)] complex displays a severe deviation from the expected square-planar geometry and shows a dynamic behavior in solution. Synthesis, characterization, and reactivity of this and other Pigiphos complexes of Ir and Rh are presented in the article by P. Barbaro, A. Togni et al. on p. 601 ff.



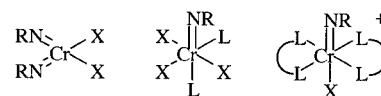
MICROREVIEW

Contents

583 W.-H. Leung

Synthesis and Reactivity of Organoimido Complexes of Chromium

Keywords: Chromium / N ligands / Synthesis / Reactivity

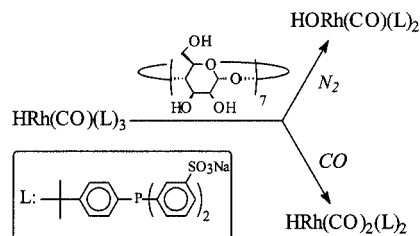


SHORT COMMUNICATION

595 L. Caron, M. Canipelle, S. Tilloy,
H. Bricout, E. Monflier*

Unexpected Effect of Cyclodextrins on Water-Soluble Rhodium Complexes

Keywords: Rhodium / Phosphanes / Biphasic catalysis / Cyclodextrins / Molecular recognition

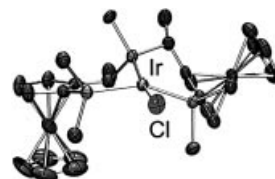


FULL PAPERS

601 L. Hintermann, M. Perseghini, P. Barbaro,*
A. Togni*

Complexes of Rhodium(I) and Iridium(I) with the Chiral Tridentate Phosphane Pigiphos: Structure and Reactivity Studies

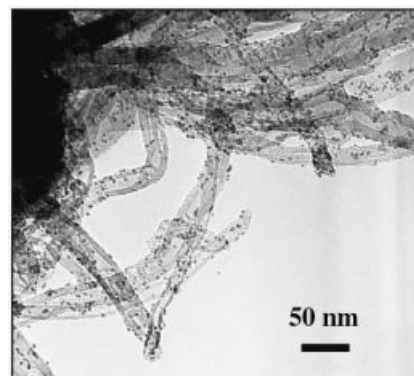
Keywords: Ferrocenyl ligands / Phosphanes / Iridium / Rhodium / Chiral ligands



610 R. Giordano, P. Serp,* P. Kalck, Y. Kihn,
J. Schreiber, C. Marhic, J.-L. Duvail

Preparation of Rhodium Catalysts Supported on Carbon Nanotubes by a Surface Mediated Organometallic Reaction

Keywords: Nanotubes / Rhodium / Supported catalysts / Surface chemistry / Heterogeneous catalysis

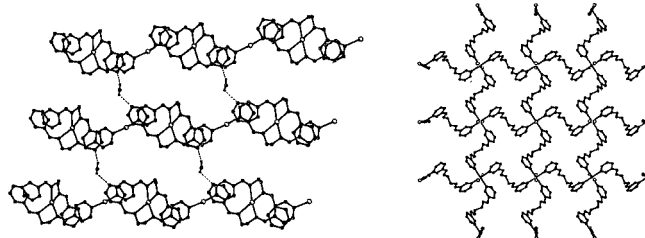


618 X.-M. Ouyang, B.-L. Fei, T. Okamura,
H.-W. Bu, W.-Y. Sun,* W.-X. Tang,
N. Ueyama



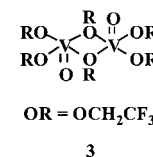
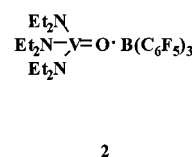
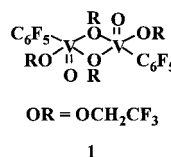
Syntheses, Crystal Structures, and Properties of Four Two-Dimensional Network Complexes with Multidentate Bis(Schiff Base) Ligands

Keywords: Schiff bases / Silver / Cobalt / Crystal engineering



628 F. Wolff, R. Choukroun,* C. Lorber,
B. Donnadieu

Reactivity of $\text{B}(\text{C}_6\text{F}_5)_3$ with Oxovanadium(V) Complexes VOL_3 ($\text{L} = \text{OCH}_2\text{CF}_3$, NEt_2): Formation of the Organometallic Vanadium(V) Complex $[\text{VO}(\mu\text{-OCH}_2\text{CF}_3)(\text{OCH}_2\text{CF}_3)(\text{C}_6\text{F}_5)]_2$ and the Lewis Acid Adduct $[(\text{Et}_2\text{N})_3\text{VO}(\text{C}_6\text{F}_5)_3]$

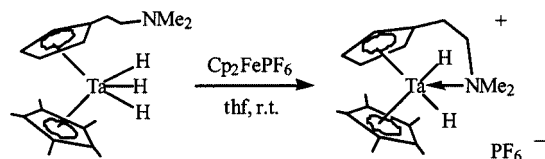


Keywords: N ligands / O ligands / Boranes / Structure determination / Vanadium

633 C. Poulard, D. Perrey, G. Boni,* E. Vigier,
O. Blacue, M. M. Kubicki, C. Moïse

A Tantalocene Trihydride Containing an
Aminoethyl-Functionalised Ligand

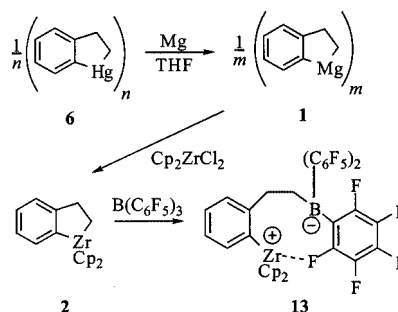
Keywords: Cyclopentadienyl ligands / Metallocenes /
Hydride ligands / Tantalum



638 M. Schreuder Goedheijt, T. Nijbacker,
A. D. Horton, F. J. J. de Kanter,
O. S. Akkerman, F. Bickelhaupt*

Investigations on 1-Metallaindanes

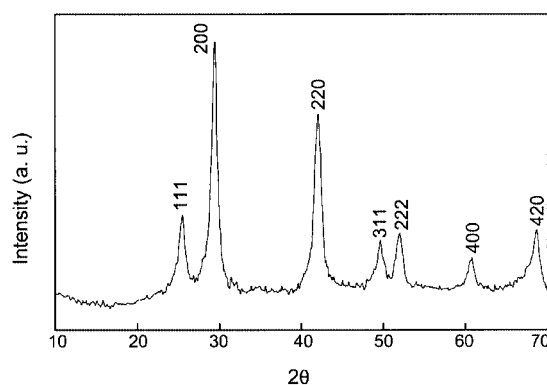
Keywords: Metallacycles / Isomerization / Mag-
nesium / Mercury / Zirconium



644 Y. Liu,* J. Cao, J. Zeng, C. Li, Y. Qian,
S. Zhang

A Complex-Based Soft Template Route to
PbSe Nanowires

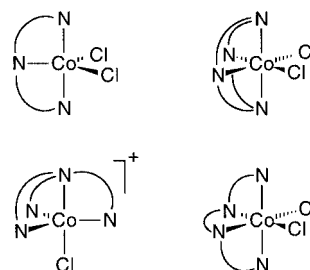
Keywords: Nanostructures / Semiconductors / Lumi-
nescence / Carboxylate ligands



648 T. M. Kooistra, K. F. W. Hekking,
Q. Knijnenburg, B. de Bruin,
P. H. M. Budzelaar, R. de Gelder,
J. M. M. Smits, A. W. Gal*

Cobalt Chloride Complexes of N₃ and N₄
Donor Ligands

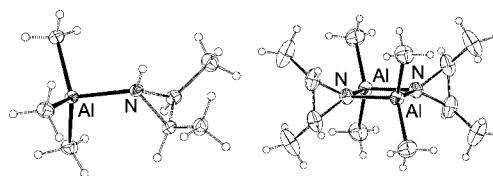
Keywords: Cobalt / N Ligands / Polymerisation



656 Y. Zhang, P. H. M. Budzelaar,
J. M. M. Smits, R. de Gelder,
P. R. Hageman, A. W. Gal*

Reactions of *cis*-2,3-Dimethylaziridine, 3-Pyrrol-
ine and Pyrrolidine with Me₃Al and Me₃Ga:
Adducts and Dimeric Amides

Keywords: Aluminium / Chemical vapour deposition /
Gallium / Nitrides

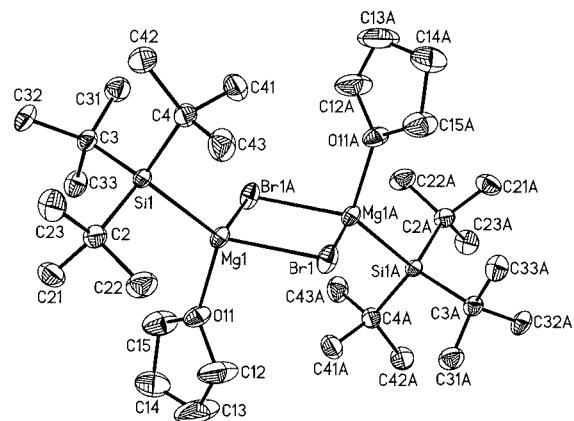


666

H.-W. Lerner,* S. Scholz, M. Bolte,
N. Wiberg, H. Nöth, I. Krossing

Synthesis and Structures of Alkaline-Earth
Metal Supersilanides: $t\text{Bu}_3\text{SiMX}$ and $t\text{Bu}_3\text{Si}-$
 $\text{M}-\text{Si}t\text{Bu}_3$ ($\text{M} = \text{Be}, \text{Mg}; \text{X} = \text{Cl}, \text{Br}$)

Keywords: Silanes / Beryllium / Magnesium / X-ray
structure analysis

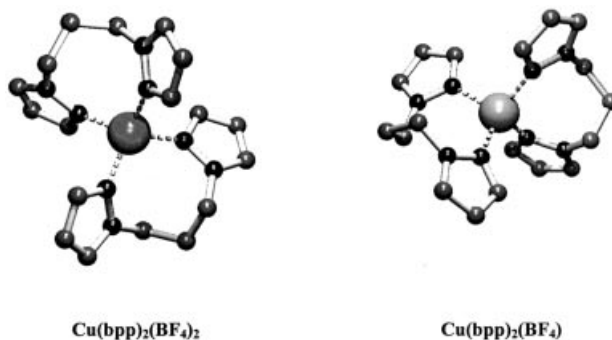


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K. Flinzner, A. F. Stassen, A. M. Mills,
A. L. Spek, J. G. Haasnoot,* J. Reedijk

The Chelating Ligand 1,3-Bis(pyrazol-1'-yl)pro-
pane (Bpp) Enforces a Tetrahedral Geometry in
Both Cu^{II} and Cu^{I} Species

Keywords: N ligands / Copper / Crystal structures /
Cyclic voltammetry

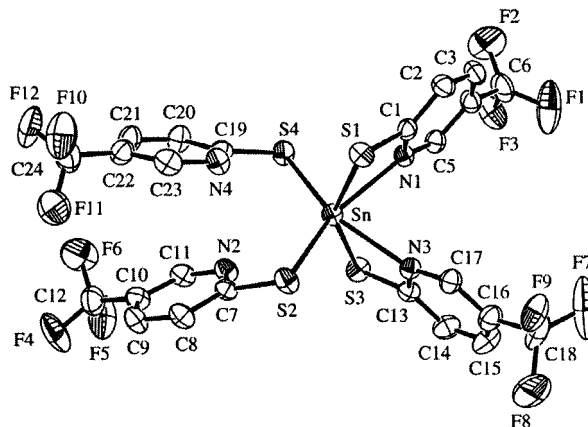


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A. Sousa-Pedrares,* M. I. Casanova,
J. A. García-Vázquez, M. L. Durán,
J. Romero, A. Sousa,* J. Silver, P. J. Titler

Synthesis and X-ray Structures of Tin(IV) and
Lead(II) Complexes with Heterocyclic Thiones

Keywords: Tin / Lead / N ligands / S ligands / Hetero-
cycles



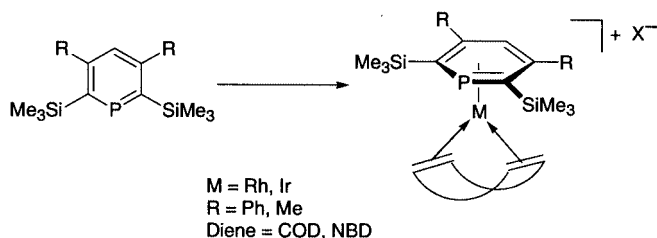
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M. Doux, L. Ricard, F. Mathey,
P. Le Floch,* N. Mézailles*



Synthesis and Reactivity of the First η^6 -Rho-
dium(I) and η^6 -Iridium(I) Complexes of 2,6-Bis-
(trimethylsilyl)phosphinines

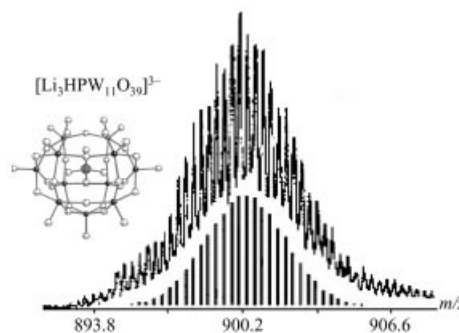
Keywords: Phosphinines / P ligands / $\text{P}\pi$ interactions /
Rhodium / Iridium



699 **M. Bonchio,* O. Bortolini,* V. Conte,
A. Sartorel**

Electrospray Behavior of Lacunary Keggin-Type Polyoxotungstates $[XW_{11}O_{39}]^{p-}$ ($X = Si, P$) – Mass Spectrometric Evidence for a Concentration-Dependent Incorporation of an MO^{n+} ($M = W^{VI}, Mo^{VI}, V^V$) Unit into the Polyoxometalate Vacancy

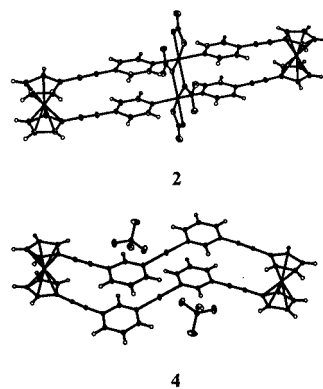
Keywords: Polyoxometalates / Mass spectrometry / Tungsten / Speciation / Lacunary species



705 **E. Lindner,* R. Zong, K. Eichele,
U. Weissner, M. Ströbele**

Synthesis and Structure of Redox-Active Heterotetranuclear Molecular Polygons by Self-Assembly of Two Ferrocene-Bridged Bis(pyridines) with Two Transition Metals

Keywords: Self-assembly / Nanostructures / Metal-metal interactions / N ligands / Nickel / Silver / Palladium

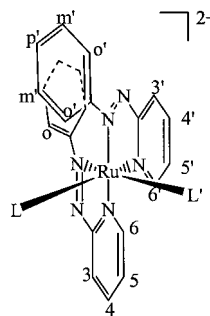


713 **A. H. Velders, A. G. Quiroga,
J. G. Haasnoot, J. Reedijk***



Orientation- and Temperature-Dependent Rotational Behavior of Imidazole Ligands (L) in β - $[Ru(azpy)_2(L)_2](PF_6)_2$ Complexes

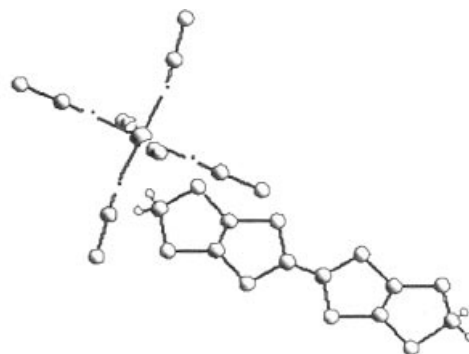
Keywords: Ruthenium / N ligands / NMR spectroscopy / Bioinorganic chemistry



720 **M. Mas-Torrent, S. S. Turner, K. Wurst,
J. Vidal-Gancedo, J. Veciana, P. Day,*
C. Rovira***

New Molecular Charge-Transfer Salts of TM-TTF and BMDT-TTF with Thiocyanate and Selenocyanate Complex Anions [TMTTF = Tetramethyltetrathiafulvalene; BMDT-TTF = Bis(methylenedithio)tetrathiafulvalene]

Keywords: Charge transfer / Tetrathiafulvalene / Complex anions / Magnetic properties

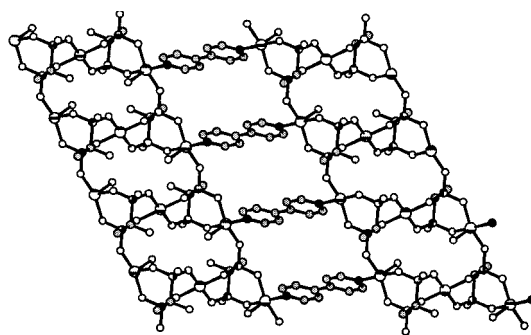


726

P. Yin, Y. Peng, L.-M. Zheng,* S. Gao,
X.-Q. Xin

Syntheses and Structures of Layered Copper(II)
Diphosphonates with Mixed Ligands

Keywords: Organic-inorganic hybrid composites /
Phosphonates / Copper / N ligands

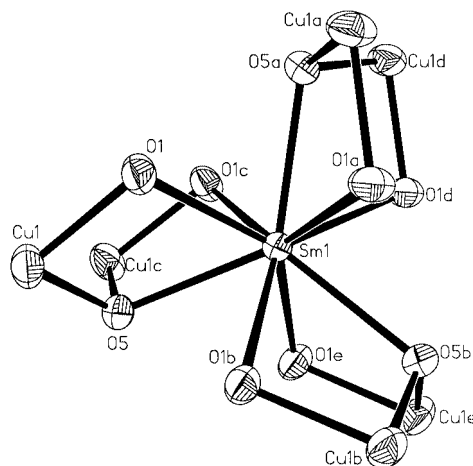


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Q.-D. Liu, J.-R. Li,* S. Gao,* B.-Q. Ma,
H.-Z. Kou, L. Ouyang, R.-L. Huang,
X.-X. Zhang, K.-B. Yu

Synthesis, Crystal Structures and Magnetism of
a Series of Heptanuclear Rare-Earth-Centered
Trigonal Prism Clusters

Keywords: Copper / Lanthanides / N ligands /
O ligands / Template synthesis / Magnetic
properties

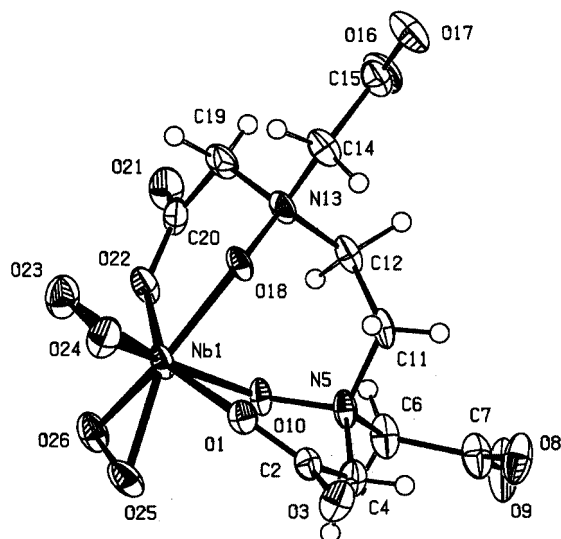


737

D. Bayot, B. Tinant, B. Mathieu,
J.-P. Declercq, M. Devillers*

Spectroscopic and Structural Characterizations
of Novel Water-Soluble Peroxo[polyaminocarboxylato
bis(*N*-oxido)]niobate(V) Complexes

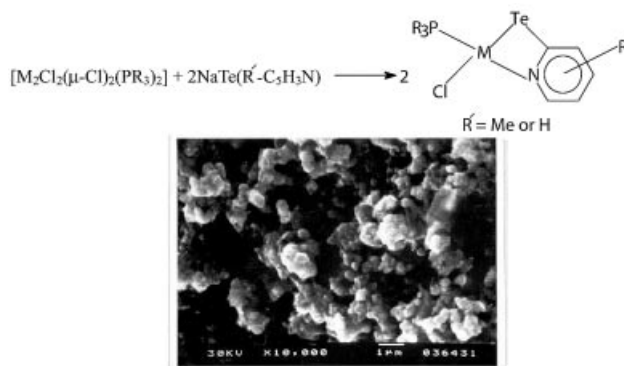
Keywords: Niobium / Peroxo ligands / N,O ligands /
NMR spectroscopy / IR spectroscopy



- 744 S. Dey, V. K. Jain,* J. Singh, V. Trehan,
K. K. Bhasin, B. Varghese

Pyridine- and 3-/6-Methylpyridine-2-tellurolate
Complexes of Palladium(II) and Platinum(II)

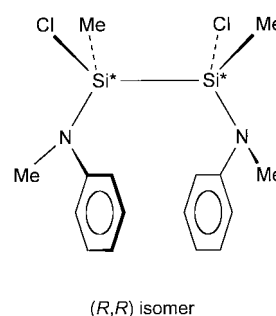
Keywords: Palladium / Platinum / N ligands /
Tellurium / NMR spectroscopy



- 751 U. Böhme,* B. Günther, B. Rittmeister

Selective Synthesis of *N*-Methylanilino-
oligosilanes

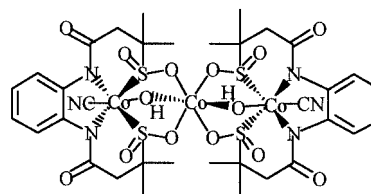
Keywords: Amides / Silanes / Disilanes / Amino-
silanes / Stereochemistry



- 759 M. Rat, R. A. de Sousa, A. Tomas,
Y. Frapart, J.-P. Tuchagues, I. Artaud*

Synthesis, X-ray Structure and Properties of
a Trinuclear Mixed-Valence $\text{Co}^{\text{III}}\text{-Co}^{\text{II}}\text{-Co}^{\text{III}}$
Complex with Carboxamido N and Sulfinato
S Donors

Keywords: Cobalt / N ligands / S ligands / Enzyme
models



- 766 A. D. Burrows,* R. W. Harrington,
M. F. Mahon, S. J. Teat

The Influence of Functional Group Orientation
on the Structure of Zinc 1,1,4-Trimethyl-
thiosemicarbazide Dicarboxylates: Probing the
Limits of Crystal Engineering Strategies

Keywords: Zinc / Carboxylate ligands / Hydrogen
bonds / Coordination polymers / Supra-
molecular chemistry

