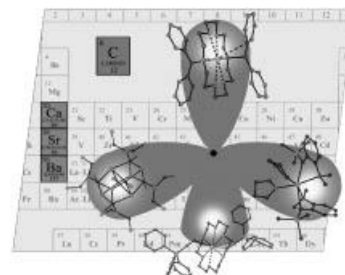


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COVER PICTURE

The cover picture shows the familiar depiction of an sp^3 -hybrid orbital. Each lobe highlights an example of one of the emerging classes of heavy alkaline earth organometallic compounds, specifically those in which the central metal (calcium, strontium and barium) displays direct metal–carbon bonds. Clockwise around the orbital, these classes are: di- and triphenylmethanides, dibenzyl species, acetylides, and “ate” complexes. Atoms in green depict the alkaline earth metal centers, carbon atoms are black, silicon atoms pink, oxygen atoms red and nitrogen atoms blue. Details are discussed in the Microreview by J. S. Alexander and K. Ruhlandt-Senge on pp. 2761 ff. The cover image was generated by Dr. Jesse Taylor (Syracuse University).



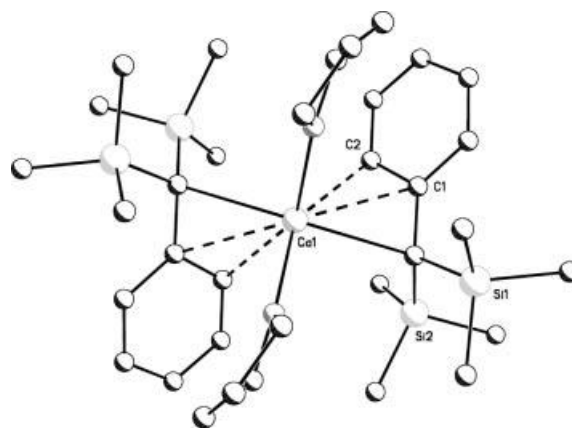
MICROREVIEW

Contents

2761 J. S. Alexander, K. Ruhlandt-Senge*

Not Just Heavy “Grignards”: Recent Advances
 in the Organometallic Chemistry of the Alkaline
 Earth Metals Calcium, Strontium and Barium

Keywords: Calcium / Strontium / Barium / σ -bound
 organometallics / Synthesis / Structural
 characterization

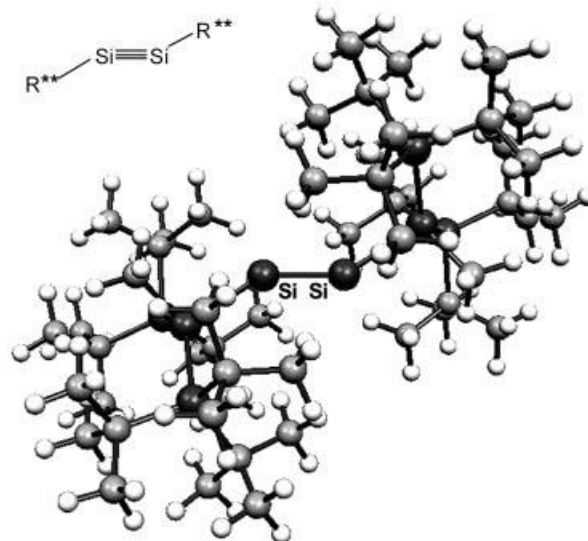


SHORT COMMUNICATIONS

2775 N. Takagi, S. Nagase*

Theoretical Study of an Isolable Compound with a Short Silicon-Silicon Triple Bond, $(t\text{Bu}_3\text{Si})_2\text{MeSiSi}\equiv\text{SiSiMe}(\text{Si}t\text{Bu}_3)_2$

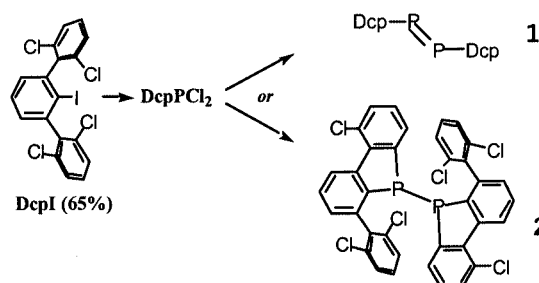
Keywords: Silicon / Multiple bonds / Substituent effects / Density functional calculations



2779 R. C. Smith,* T. Ren, J. D. Protasiewicz*

A Robust, Reactive, and Remarkably Simple to Prepare Sterically Encumbered *meta*-Terphenyl Ligand

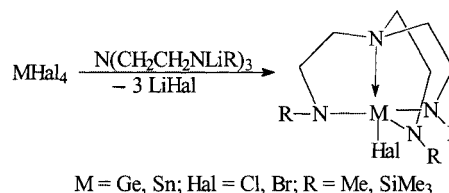
Keywords: Terphenyl / Diphosphene / Insertion / Phosphaalkene



2784 P. L. Shutov, S. S. Karlov,* K. Harms, A. V. Churakov, J. A. K. Howard, J. Loberth,* G. S. Zaitseva

Synthesis and Characterization of Group 14 1-Haloazametallatranes

Keywords: Azametallatranes / Silicon / Germanium / Tripodal ligands / Tin



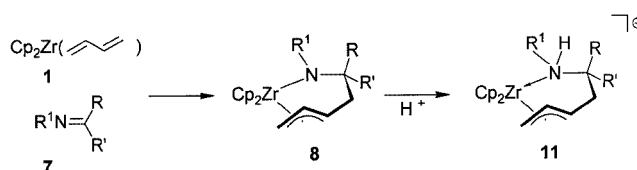
FULL PAPERS

2789 C. Hölte, G. Erker,* G. Kehr, R. Fröhlich, O. Kataeva



The Reaction of (Butadiene)zirconocene with Imines

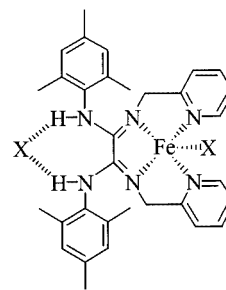
Keywords: Template synthesis / Zirconium / Metallocenes / Polymerizations



2800 S. Rau, L. Böttcher, S. Schebesta,
M. Stollenz, H. Görls, D. Walther*

Simultaneous Cation/Anion Coordination by Bifunctional 1,2-Diimine/1,2-Diamine Type Ligands: Synthesis, Structures, and Properties of Tight Ion Pair Complexes of Ruthenium and Iron

Keywords: Iron / Hydrogen bonds / N ligands / Ruthenium

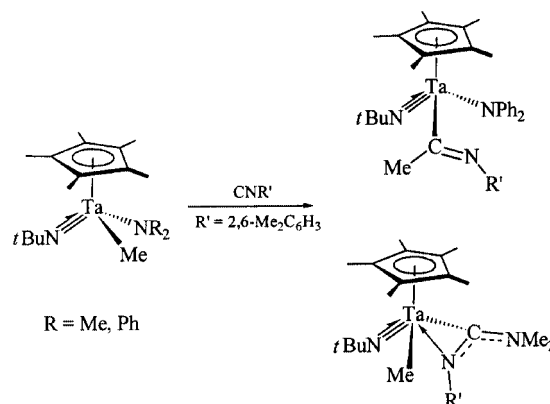


2810 F. Amor, J. Sánchez-Nieves, P. Royo,*
H. Jacobsen, O. Blaque, H. Berke,
M. Lanfranchi, M. A. Pellinghelli,
A. Tiripicchio



Competitive Insertion of Isocyanide into Tantalum–Amido and Tantalum–Methyl Bonds

Keywords: Tantalum / Competitive insertion / Isocyanide insertion / Density functional calculations



2818 K. D. Benkstein, C. L. Stern, K. E. Splan,
R. C. Johnson, K. A. Walters,
F. W. M. Venheltmont, J. T. Hupp*

Collapsed Molecular Rectangles Based on Rhenium(i) Coordination of Ethynylpyridyl Porphyrins – Synthesis, Structure, and Bending-Induced Charge-Transfer Behavior

Keywords: Porphyrins / Rhenium / Supramolecular chemistry / Molecular rectangles / Electroabsorption spectroscopy

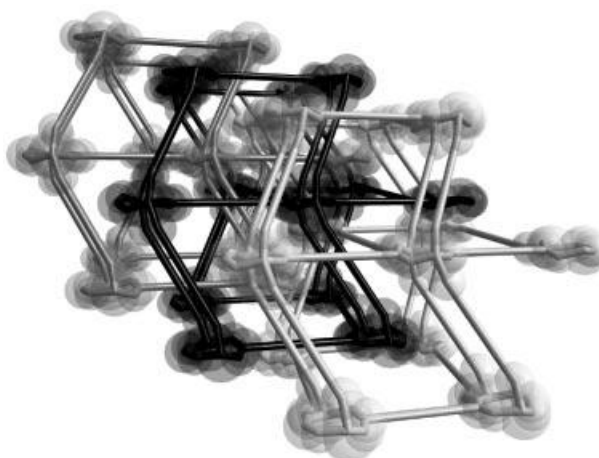


2823 F. A. Almeida Paz, Y. Z. Khimyak,
A. D. Bond, J. Rocha, J. Klinowski*



Synthesis and Characterization of a Novel Modular Cadmium–Organic Framework with Biphenyl-4,4′-dicarboxylate

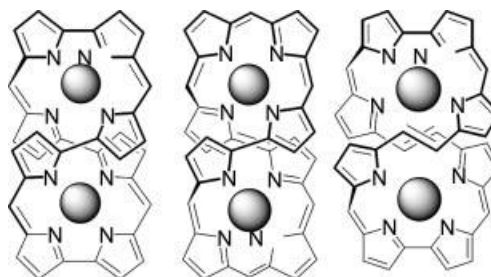
Keywords: Coordination polymers / Cadmium / Supramolecular chemistry / O ligands



2829 J. Bley-Esrich, J.-P. Gisselbrecht, E. Vogel, M. Gross*

Electrochemical and Spectroelectrochemical Investigations of “Figure-Eight” Octapyrrolic Macrocycles, Free Bases, and Their Mononuclear, Homo- and Heterodinuclear Complexes with Divalent Transition Metals

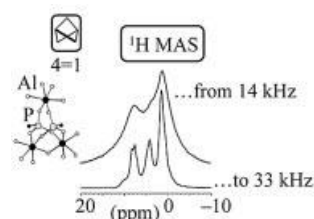
Keywords: Macrocyclic ligands / Octapyrins / Transition metal complexes / Electrochemistry



2838 T. Azaïs, L. Bonhomme-Courty, H. Vaissermann, J. Maquet, C. Bonhomme*

The First Aluminophosphonate Cluster Analogue of the 4=1 SBU of Zeolites: Structure and Multinuclear Solid-State NMR Study, Including ^1H NMR

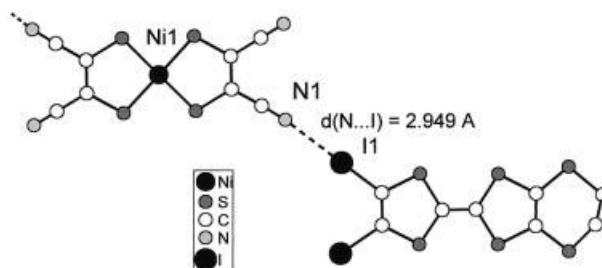
Keywords: Aluminium / Cluster compounds / NMR spectroscopy / Phosphorus / Solid state



2844 T. Devic, B. Domercq, P. Auban-Senzier, P. Molinié, M. Fourmigué*

Cyano-Halogen Interactions in $[\text{EDT-TTF-I}]_2\text{-}[\text{Ni}(\text{mnt})_2]$ and $[\text{EDT-TTF-I}_2]_2[\text{Ni}(\text{mnt})_2]$ and Geometrical Evolutions within Mixed-Valence or Fully Oxidized TTF Dyads

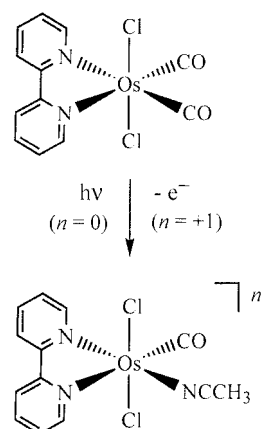
Keywords: Radical ions / S ligands / Magnetic properties / Crystal engineering / Non-covalent interactions



2850 S. Chardon-Noblat,* P. Da Costa, A. Deronzier,* T. Mahabiersing, F. Hartl*

Novel Complexes $\text{trans}(\text{Cl})\text{-}[\text{Os}(\text{bpy})(\text{CO})\text{-}(\text{CH}_3\text{CN})\text{Cl}_2]^n$ ($n = 0, +1$; bpy = 2,2'-Bipyridine): Photo- and Electrochemical Syntheses and Comparative Study of Their Bonding and Redox Properties

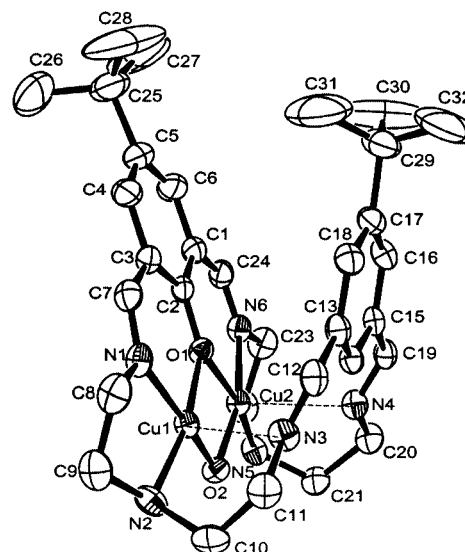
Keywords: Osmium / N ligands / Charge-transfer photochemistry / Electrochemical oxidation / Decarbonylation



2857 H. Ma, M. Allmendinger, U. Thewalt,
A. Lenz, M. Klinga, B. Rieger*

Dioxygen Activation Using Schiff Base Macro-
cyclic Dinuclear Copper(I) Complexes: Structur-
ally Characterized Dioxygen Reaction Products

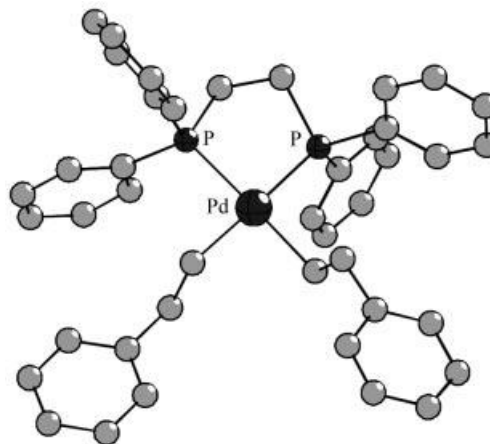
Keywords: Macrocyclic ligands / Dinuclear copper
complexes / Oxygenation reactions / O–O
activation / X-ray crystal structures



2868 T. Spaniel, H. Schmidt, C. Wagner,
K. Merzweiler, D. Steinborn*

(Phenylalkyl)palladium Complexes Containing
 β -Hydrogen Atoms: Synthesis and Characteri-
zation of $[\text{PdR}_2(\text{dppe})]$, $[\text{PdR}(\text{SPh})(\text{dppe})]$ ($\text{R} =$
 $\text{CH}_2\text{CH}_2\text{Ph}$, $\text{CH}_2\text{CH}_2\text{CH}_2\text{Ph}$, CH_2CHMePh),
and $[\text{Pd}(\text{CH}_2\text{CH}_2\text{CH}_2\text{Ph})\text{X}(\text{dppe})]$ ($\text{X} = \text{I}$, Br ,
 Cl)

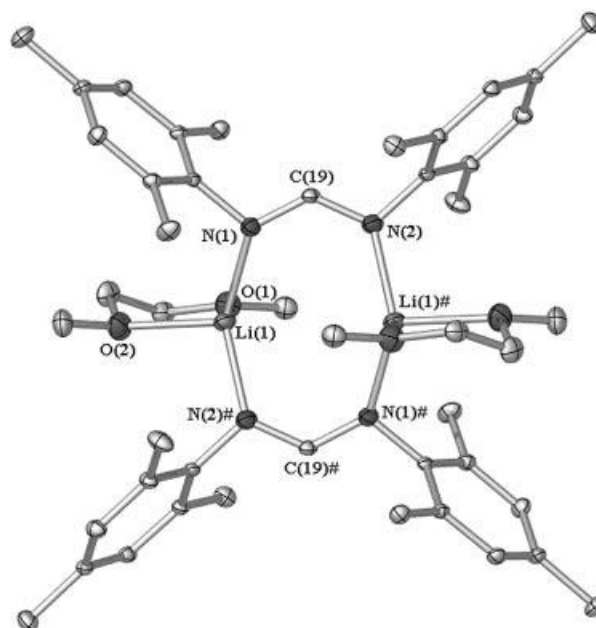
Keywords: Phenylalkyl complexes / Palladium / β -Hy-
drogen-containing alkyl ligands / P ligands



2878 J. Baldamus, C. Berghof, M. L. Cole,
E. Hey-Hawkins, P. C. Junk,* L. M. Louis

Studies of Aryl Substituent and Solvent Donor
Imposed Structural Diversity in N,N' -Diaryl-
formamidinate Complexes of Lithium

Keywords: Lithium / Formamidinates / Coordination
modes / N ligands

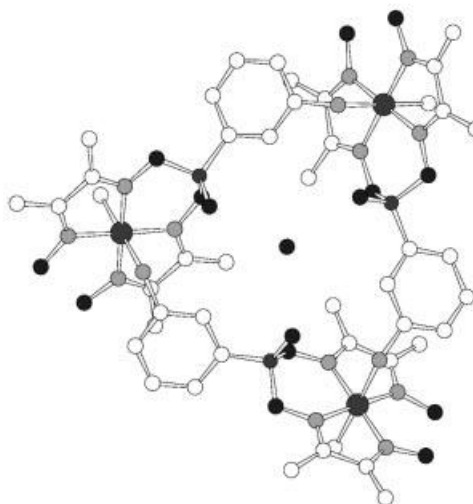


2885 R. Dreos,* G. Nardin, L. Randaccio,
P. Siega, G. Tauzher



Self-Assembly of Cobaloximes and Rhodoximes
with 3-Aminophenylboronic Acid: A Molecular
Triangle and a Polymer

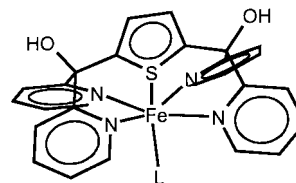
Keywords: Cobalt / Rhodium / Boronic acid / Self
assembly



2891 O. Fazio, M. Gnida, W. Meyer-Klaucke,
W. Frank, W. Kläui*

An Iron(II) Complex with an N₄S Ligand – A
Novel Model Compound to Mimic Cytochrome
P450 Activity

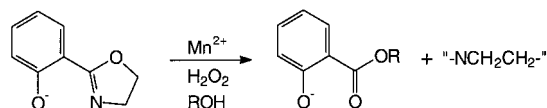
Keywords: Metalloenzymes / Tetrapodal pentadentate
ligand / Iron / Homogeneous catalysis /
O–O activation / N,S ligands / Epoxid-
ation / EXAFS spectroscopy



2897 M. Hoogenraad, H. Kooijman, A. L. Spek,
E. Bouwman, J. G. Haasnoot, J. Reedijk*

Manganese Oxidation Catalysts with 2-(2'-Hy-
droxyphenyl)oxazoline Ligands: Catalyst Inter-
mediates and Degradation Products – Crystal
Structure of Bis[{2-(2'-oxazoliny)phenolato}-
bis(1-methylimidazole)manganese(III)] Perchlo-
rate

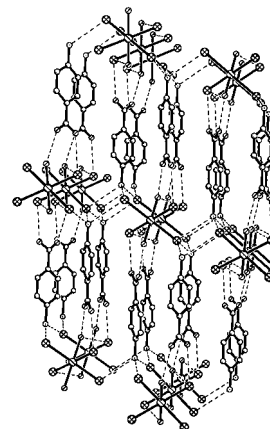
Keywords: Catalysis / Manganese / Mass spec-
trometry / Oxazolines / Oxidation



2904 R. Wang, M. Hong,* J. Luo, R. Cao,
Q. Shi, J. Weng

Syntheses and Crystal Structures of Five Cad-
mium(II) Complexes Derived from 4-Aminoben-
zoic Acid

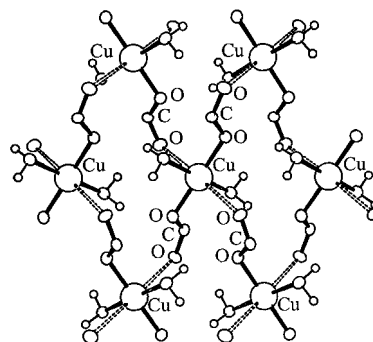
Keywords: Cadmium / Hydrogen bonds / N,O ligands /
Supramolecular chemistry



- 2913** J. M. Schweigkardt, A. C. Rizzi, O. E. Piro, E. E. Castellano, R. C. de Santana, R. Calvo, C. D. Brondino*

Structural and Single Crystal EPR Studies of the Complex Copper L-Glutamine: A Weakly Exchange-Coupled System with *syn-anti* Carboxylate Bridges

Keywords: EPR spectroscopy / Carboxylate ligands / Through bond interactions / Copper / Magnetic Properties / Layered compounds

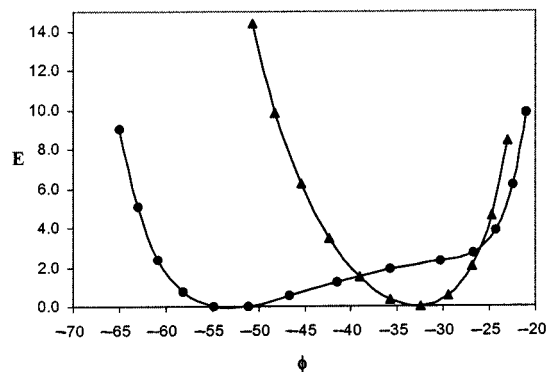


- 2920** M. Calligaris,* L. Randaccio



Stereochemical Analysis of Cobalt(III) Complexes with Tridentate Imino- and Amino-Oxime Ligands

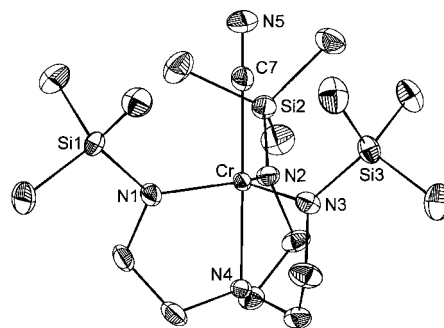
Keywords: Stereochemistry / Molecular mechanics / Tridentate ligands / Cobalt / Vitamin B₁₂



- 2928** A. C. Filippou,* S. Schneider, B. Ziemer

Syntheses and Molecular Structures of Chromium(IV) Halides and Pseudohalides Bearing a Triamidoamine Ligand

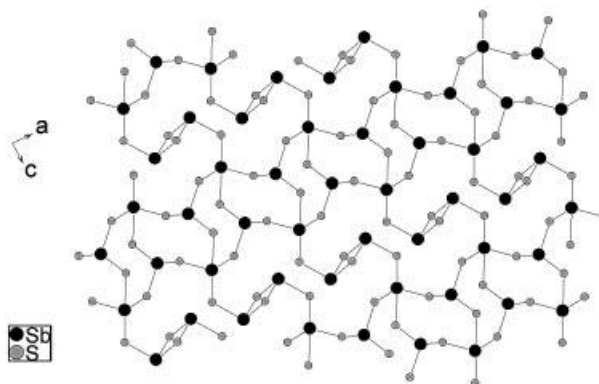
Keywords: Chromium / Tripodal ligands / N ligands / Halides / Pseudohalides / Oxidations



- 2936** L. Engelke, C. Näther, W. Bensch*

Two New Layered Thioantimonate(III) Compounds: Solvothermal Syntheses, Crystal Structures, and Properties of (*trans*-1,4-C₆N₂H₁₅)-Sb₃S₅ and (*trans*-1,2-C₆N₂H₁₅)-Sb₃S₅·H₂O

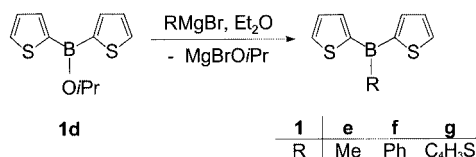
Keywords: Crystal structure / Hydrogen bonds / Solvothermal synthesis / Thioantimonate



- 2942** T. Köhler, J. Faderl, H. Pritzkow, W. Siebert*

Synthesis and Properties of Bis(2-heteroaryl)-borane Derivatives

Keywords: Boranes / Porphyrinogens / Lithiation / Grignard reaction / Bromination

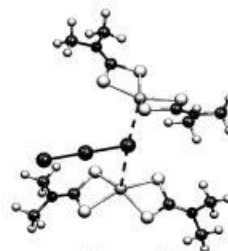
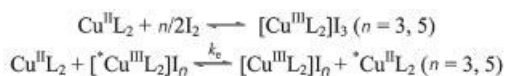


- 2947** V. G. Shtyrlin,* A. V. Zahkharov,*
A. M. Kuznetsov, O. V. Kukushnika,
P. P. Chernov



Thermodynamics of Redox Processes and Kinetics and Mechanism of Electron Self-Exchange Reactions in the Bis(*N,N*-diethyldithiocarbamato)-copper(II)/Iodine/Dichloromethane System

Keywords: Copper / Electron-transfer kinetics / Reaction mechanisms / Redox reactions thermodynamics / S ligands

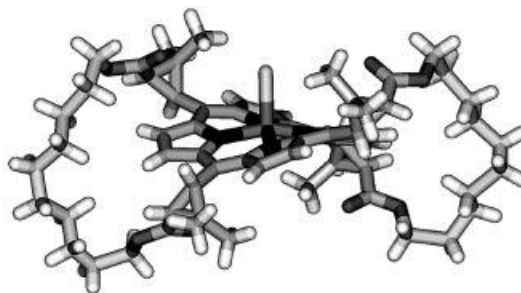


the $\text{Cu}^{\text{II}}\text{L}_2\text{I}_3\text{Cu}^{\text{III}}\text{L}_2$ model

- 2956** S. Gazeau, J. Pécaut, R. Haddad,
J. A. Shelnutt,* J.-C. Marchon*

Twisting the Porphyrin Ring to Enhance Epoxidation Enantioselectivity

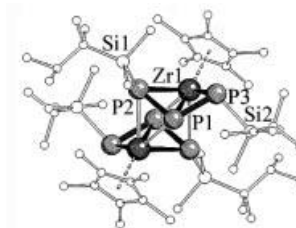
Keywords: Porphyrinoids / Manganese / Enantioselectivity / Asymmetric catalysis / Epoxidation



- 2961** M. Driess,* J. Aust, K. Merz

P–H Activation By Zirconium Amido Complexes: From New Phosphanidozirconium Complexes to the First Zr_2P_6 Cluster with the $[\text{RP}-\text{P}-\text{PR}]^{3-}$ Ligand [$\text{R} = \text{Me}_2(i\text{PrMe}_2\text{C})\text{Si}$]

Keywords: Phosphanides / Bond activation / Cluster compounds / Zirconium / Phosphanes

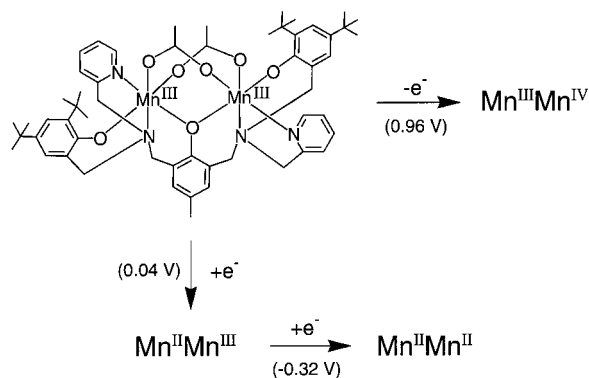


- 2965** R. Lomoth, P. Huang, J. Zheng, L. Sun,*
L. Hammarström,* B. Åkermark,
S. Styring*



Synthesis and Characterization of a Dinuclear Manganese(III,III) Complex with Three Phenolate Ligands

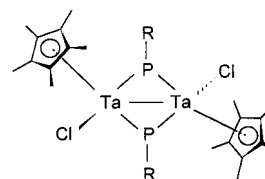
Keywords: Manganese / Ligand design / Redox chemistry



- 2975** S. Blaurock, E. Hey-Hawkins*

Syntheses, Crystal Structures and Reactivity of Organometallic Tantalum(IV) Phosphinidene Complexes: *trans*- $\{[\text{Cp}^*\text{TaCl}(\mu\text{-PR})_2]\}_2$ ($\text{Cp}^* = \text{C}_5\text{Me}_5$, $\text{R} = \text{Cy}$, *t*Bu, Ph), *cis*- and *trans*- $\{[\text{Cp}^*\text{TaCl}(\mu\text{-PMes})_2]\}_2$ (Mes = 2,4,6- $\text{Me}_3\text{C}_6\text{H}_2$) and *cis*- $\{[\text{Cp}'\text{TaCl}(\mu\text{-PMes})_2]\}_2$ ($\text{Cp}' = \text{C}_5\text{H}_4\text{Me}$)

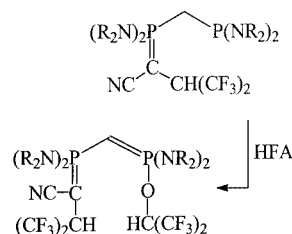
Keywords: Tantalum / P ligands / Oxo ligands / Isocyanide ligands



2985 I. Shevchenko,* V. Andrushko, E. Lork,
G.-V. Röschenthaler*

Bis[bis(dialkylamino)phosphanyl]methanes and Bis(trifluoromethyl)acrylonitrile – Reactions and Derivatives

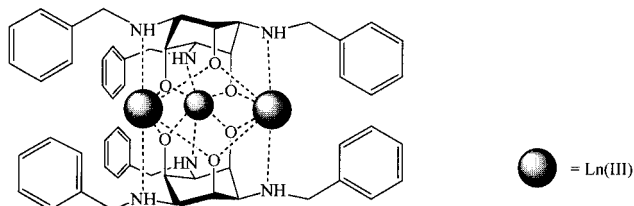
Keywords: Ylides / Phosphanes / Nitriles / Hexafluoroacetone



2991 S. Delagrangé, C. Gateau, D. Chapon,
C. Lebrun, P. Delange,* P. Vottéro

Lipophilic Ligands Derived from 1,3,5-Triamino-1,3,5-trideoxy-*cis*-inositol (Taci) for Trivalent Lanthanide Complexation in Aqueous and Organic Solutions

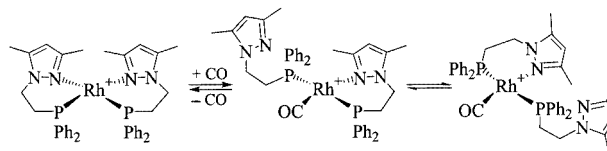
Keywords: Lanthanides / Complexes / N,O ligands / Substituent effects / Stability constants



2999 G. Esquiús, J. Pons, R. Yáñez, J. Ros,*
R. Mathieu,* B. Donnadieu, N. Lukan

Synthesis of a New Potentially Hemilabile Ligand: 1-[2-(Diphenylphosphanyl)ethyl]-3,5-dimethylpyrazole, and Comparison of its Bonding Properties with the Related 1-[2-(Ethylamino)-ethyl]-3,5-dimethylpyrazole Ligand toward Rh^I

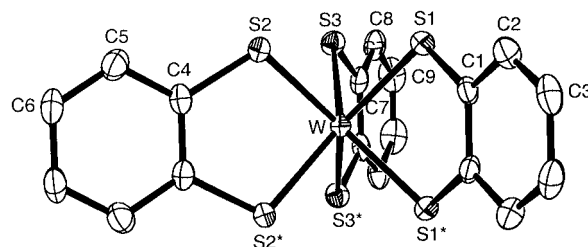
Keywords: Rhodium / P ligands / N ligands / Hemilabile ligands / Hydroformylations



3007 H. V. Huynh, T. Lügger, F. E. Hahn*

Synthesis and X-ray Molecular Structure of [W^{VI}(C₆H₄S₂-1,2)₃] Completing the Structural Characterization of the Series [W(C₆H₄S₂-1,2)₃]ⁿ⁻ (n = 0, 1, 2): Trigonal-Prismatic versus Octahedral Coordination in Tris(benzene-1,2-dithiolato) Complexes

Keywords: Tungsten / S ligands / Structure elucidation / Coordination modes

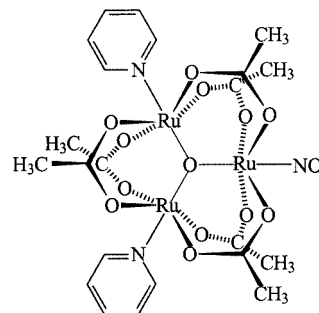


3010 H. E. Toma,* A. D. P. Alexiou,
S. Dovidauskas



Extended Electronic Interactions in a Triangular μ-Oxotriruthenium Acetate Cluster Containing Nitric Oxide

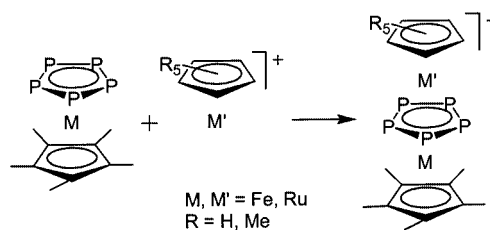
Keywords: Ruthenium / Nitrogen oxides / Carboxylate ligands / Cluster compounds / Pi interactions



- 3018** A. R. Kudinov,* D. A. Loginov,
Z. A. Starikova, P. V. Petrovskii, M. Corsini,
P. Zanello

Iron- and Ruthenium-Containing Triple-Decker Complexes with a Central Pentaphospholyl Ligand – X-ray Structures of $[(\eta\text{-C}_5\text{H}_5)\text{Fe}(\mu\text{-}\eta\text{-}\eta\text{-P}_5)\text{Ru}(\eta\text{-C}_5\text{Me}_5)]\text{PF}_6$ and $[(\eta\text{-C}_5\text{Me}_5)\text{Ru}(\mu\text{-}\eta\text{-}\eta\text{-P}_5)\text{Ru}(\eta\text{-C}_5\text{Me}_5)]\text{PF}_6$

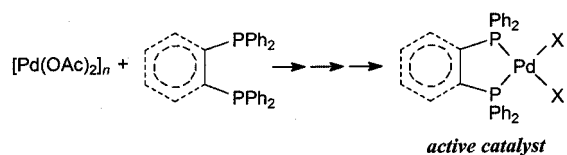
Keywords: Electrochemistry / Iron / Phosphorus / Ruthenium / Sandwich compounds / Triple-decker complexes



- 3028** A. Marson, A. B. van Oort, W. P. Mul*

In Situ Preparation of Palladium Diphosphane Catalysts

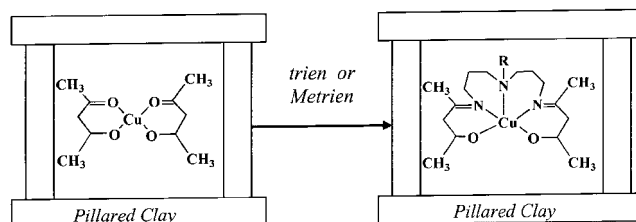
Keywords: Palladium / Phosphanes / Homogeneous catalysis / Copolymerization



- 3032** R. Ferreira, C. Freire,* B. de Castro,*
A. P. Carvalho, J. Pires, M. B. de Carvalho

Encapsulation of Copper(II) Complexes with Pentadentate N_3O_2 Schiff Base Ligands in a Pillared Layered Clay

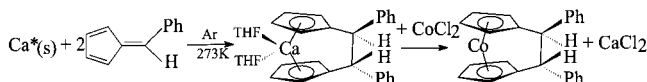
Keywords: Clays / Microporous materials / Copper / Schiff bases



- 3039** S. Fox, J. P. Dunne, M. Tacke,*
D. Schmitz, R. Dronskowski

Synthesis and Structural Characterisation of a Novel Chiral *ansa*-Cobaltocenium Hexafluorophosphate

Keywords: Metallocenes / Structural analysis / Density functional calculations / Cobalt



CORRECTION

- 3047** H. Brunner,* J. Klankermayer, M. Zabel

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