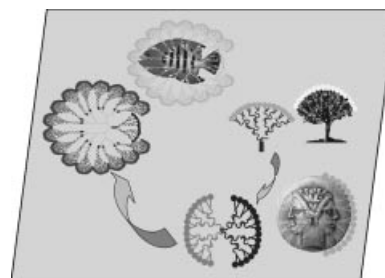


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COVER PICTURE

The cover picture shows a dendron and two types of dendritic molecules built from dendrons. The shape of these nanometric molecules resembles that of macroscopic entities; the shape of dendrons is similar to that of trees, bis-dendrons can be compared to Janus, the god with two faces, and the multidendritic species shown on the left has the shape of a tropical fish. Details of this chemistry are described in the Microreview by A.-M. Caminade, A. Maraval, and J.-P. Majoral on p. 887 ff.



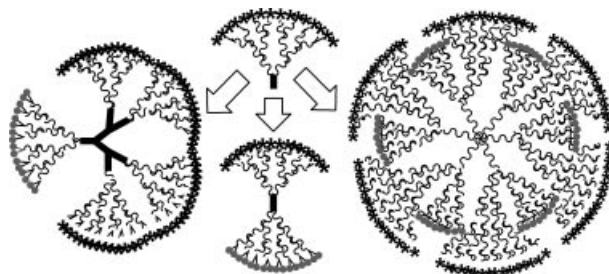
MICROREVIEW

Contents

887 A.-M. Caminade,* A. Maraval,
 J.-P. Majoral*

Phosphorus-Containing Dendrons: Synthesis,
 Reactivity, Properties, and Use as Building
 Blocks for Various Dendritic Architectures

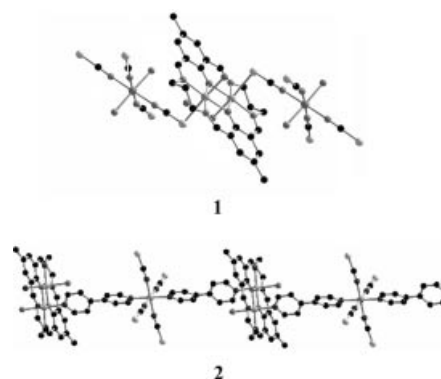
Keywords: Dendrimers / Phosphorus / Dendrons /
 Building blocks



- 903** A. Cucos, N. Avarvari, M. Andruh,*
Y. Journaux,* A. Müller, M. Schmidtman

Reinecke Anion Derivatives and Homobinuclear Complexes as Tectons in Designing Heteropoly-metallic Systems

Keywords: Chromium / Nickel complexes / Thiocyanato complexes / Magnetic properties / Coordination polymers

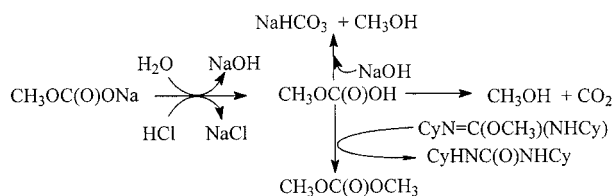


- 908** A. Dibenedetto,* M. Aresta, P. Giannoccaro,
C. Pastore, I. Pápai,* G. Schubert



On the Existence of the Elusive Mono-Methyl Ester of Carbonic Acid [$\text{CH}_3\text{OC}(\text{O})\text{OH}$] at 300 K: ^1H and ^{13}C NMR Measurements and DFT Calculations

Keywords: Carbon dioxide / Density functional calculations / Methylation / NMR spectroscopy

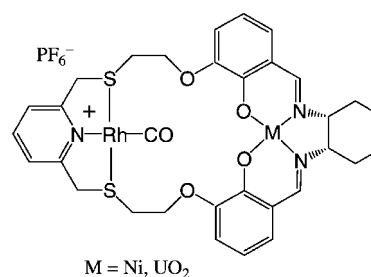


- 914** M. Bassetti,* A. Calenne,
L. Mastrofrancesco, M. Salamone,
G. Bocelli,* A. Cantoni, A. Musatti



Synthesis and Characterization of a Novel Heteroditopic Macrocyclic System – Monometallic Nickel(II) and Uranyl Complexes and Their Corresponding Heterobimetallic Carbonylrhodium(I) Complexes

Keywords: Heterometallic complexes / Ligand design / Macrocyclic ligands / Metallacycles / Schiff bases

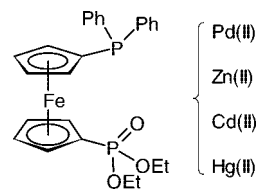


- 926** P. Štěpnička,* I. Císařová, R. Gyepes



Synthesis and Structural Characterisation of Palladium and Group-12 Metal Complexes with a Hybrid Phosphanylphosphonate Ferrocene Ligand

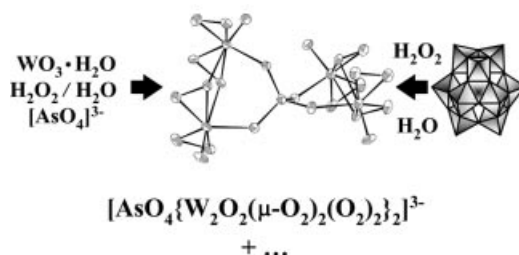
Keywords: Group 12 metals / Phosphanes / Phosphonate esters / Palladium / Sandwich complexes / Structure elucidation



**939 J.-Y. Piquemal,* L. Salles, G. Chottard,
P. Herson, C. Ahcine, J.-M. Brégeault***

Another Example of the Instability of a Keggin-Type Heteropolyanion in the Presence of Aqueous Hydrogen Peroxide: From $[\text{AsW}_{12}\text{O}_{40}]^{3-}$ to Low-Nuclearity Oxoperoxotungstates – Crystal Structure of $[(n\text{Hex})_4\text{N}]_3 [\text{AsO}_4\{\text{W}_2\text{O}_2(\mu\text{-O}_2)_2(\text{O}_2)_2\}_2]^{3-}$

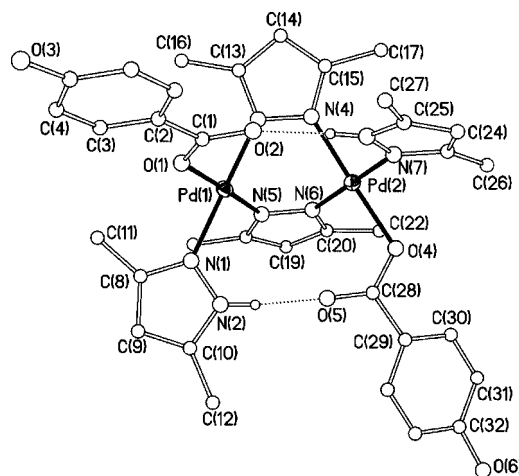
Keywords: Oxidation / Hydrogen peroxide / Peroxo ligands / Catalysis / Tungsten



**948 I. Ara, J. Forniés,* R. Lasheras, A. Martín,
V. Sicilia***

Reactivity of the Pyrazolatopalladium(II) Complexes $[\text{Pd}(\text{dmpz})_2(\text{Hdmpz})_2]$ and $[\text{Pd}_2(\mu\text{-dmpz})_2(\text{dmpz})_2(\text{Hdmpz})_2]$ Towards Carboxylic Acids: Hydrogen Bonds as the Driving Force That Determines the Nature of the Final Products

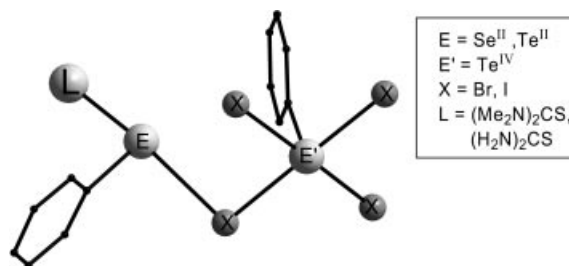
Keywords: Carboxylate ligands / Heterometallic complexes / Hydrogen bonds / N ligands / Palladium



**958 E. Schulz Lang,* G. A. Casagrande,
G. Manzoni de Oliveira, G. N. Ledesma,
S. S. Lemos, E. E. Castellano, U. Abram**

One-Pot Synthesis and Structure of Organochalcogen Halides with Mixed Valence States

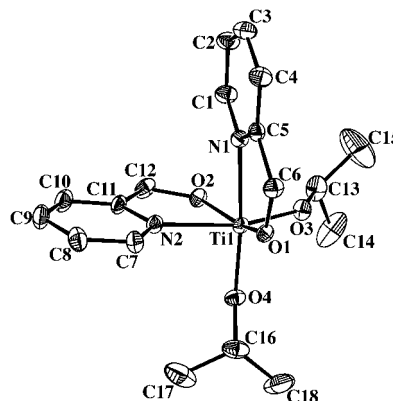
Keywords: Halides / Secondary bonding / Selenium / Tellurium



**965 P. J. Aragón, F. Carrillo-Hermosilla,
E. Villaseñor, A. Otero, A. Antiñolo,
A. M. Rodríguez**

Synthesis, Structure and Reactivity in Styrene Polymerization by Heterocyclic Alkoxy- and Thiolatotitanium(IV) Complexes

Keywords: Heterocyclic ligands / Polymerization / Structure elucidation / Titanium

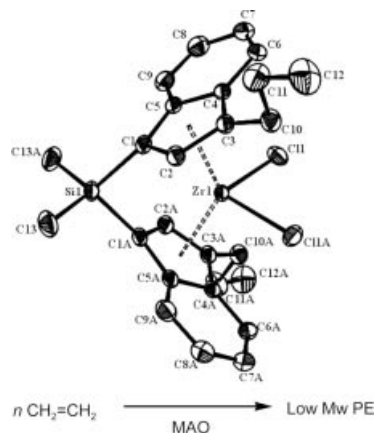


972

C. Alonso-Moreno, A. Antiñolo,
F. Carrillo-Hermosilla, A. Otero,*
A. M. Rodríguez, J. Sancho, V. Volkis,
M. Eisen

Synthesis, Characterization, and Catalytic Properties of *ansa*-Zirconocenes [Zr{1-Me₂Si-(3-η⁵-C₉H₅R)₂}Cl₂] (R = Me, *n*Pr, *n*Bu, and Bz)

Keywords: Metallocenes / Zirconium / Homogeneous catalysis / Polymerization / Ethylene

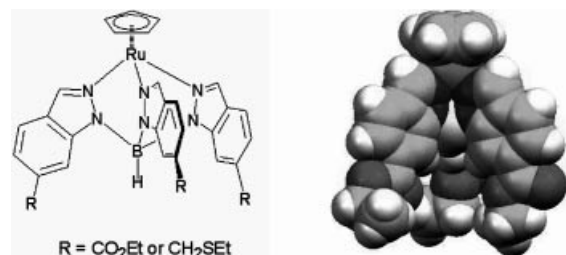


980

A. Carella, G. Vives, T. Cox, J. Jaud,
G. Rapenne,* J.-P. Launay*

Synthesis of New Tripodal Tri-Functionalized Hydrotris(indazol-1-yl)borate Ligands and X-ray Structures of Their Cyclopentadienylruthenium Complexes

Keywords: Tripodal ligands / Ligand design / Ruthenium / Indazole / Stacking interactions



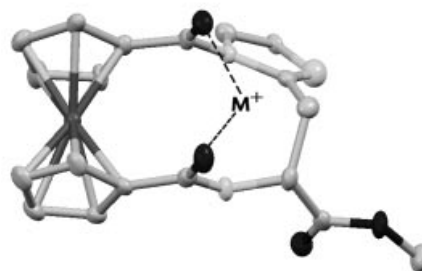
988

S. Chowdhury, G. Schatte, H.-B. Kraatz*



A Cyclic Fc-Histidine Conjugate: Synthesis and Properties – Interactions with Alkali Metal Ions

Keywords: Ferrocene / Ferrocenophane / Peptide / Bioinorganic chemistry



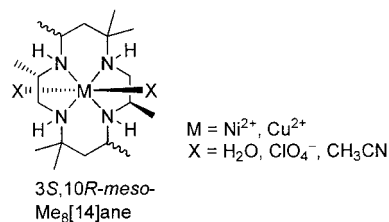
994

Y.-C. Lin,* T. K. Misra, T.-H. Lu,
M. S. Joseph, C.-S. Chung*



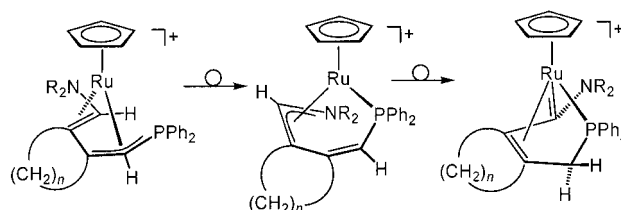
Reassignment, Isolation, Spectral and X-ray Characterization of Diastereoisomers of the Macrocyclic Ligand 3,10-*meso*-3,5,7,7,10,12,14,14-Octamethyl-1,4,8,11-tetraazacyclotetradecane and their Ni^{II} and Cu^{II} Complexes

Keywords: Diastereoisomers / Macrocyclic ligands / X-ray crystallography / Coordination modes



1006 S. Pavlik, F. Jantscher, G. Dazinger,
K. Mereiter, K. Kirchner*

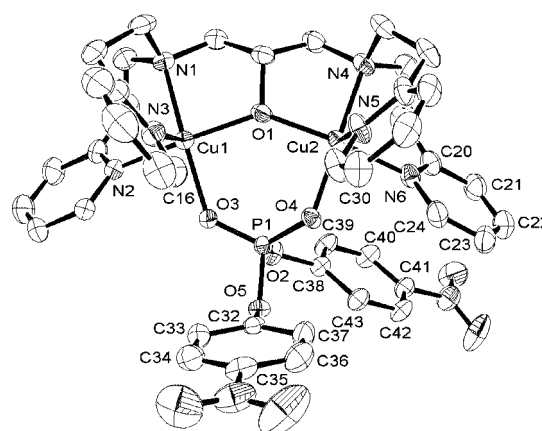
Reactions of Ruthenium–Aminophosphane Complexes with Diynes: P–N Bond Activation and Formation of Novel Phosphaallyl, Azaallyl, and Aminocarbene Complexes



Keywords: Ruthenium / Phosphaallyl complexes / Azaallyl complexes / Density functional calculations

1022 K. Selmececi, M. Giorgi, G. Speier,
E. Farkas, M. Réglér*

Mono- versus Binuclear Copper(II) Complexes in Phosphodiester Hydrolysis

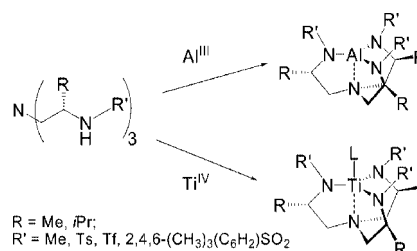


Keywords: Catalysis / Dinuclear copper(II) complex / Enzyme mimics / Phosphate ester hydrolysis / Tripodal ligands

1032 M. Forcato, F. Lake, M. Mba Blazquez,
P. Renner, M. Crisma, L. H. Gade,*
G. Licini,* C. Moberg*



Chiral, Enantiopure Aluminum(III) and Titanium(IV) Azatranes

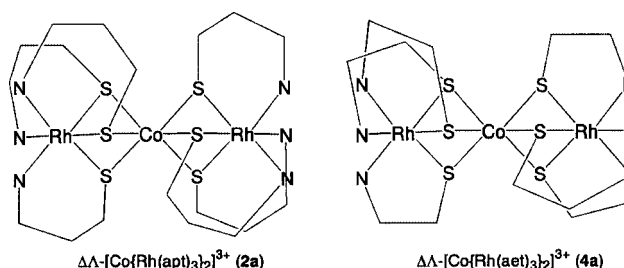


Keywords: Aluminum / Chirality / N ligands / Titanium / Tripodal ligands

1041 N. Amir,* M. Motonishi, M. Fujita,
Y. Miyashita,* K. Fujisawa, K. Okamoto*



Synthesis of Novel S-Bridged Heterotrinnuclear Complexes Containing Six-Membered Chelate Rings: Structural, Spectroscopic, and Electrochemical Properties of $[\text{Co}\{\text{Rh}(\text{apt})_3\}_2]^{3+}$ (apt = 3-Aminopropanethiolate)



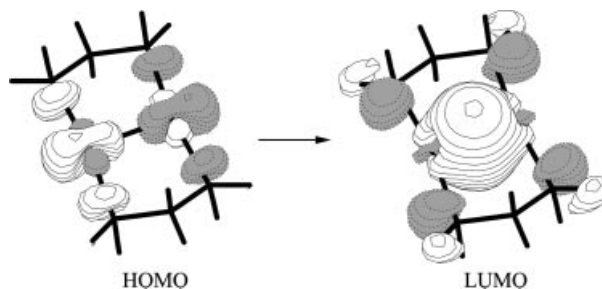
Keywords: 3-Aminopropanethiolate / Heterometallic complexes / Crystal structures / Six-membered chelate rings / Spectroscopy / Electrochemistry

1050 Q.-J. Pan, H.-X. Zhang,* H.-G. Fu,
H.-T. Yu



Theoretical Studies on MetalMetal Interaction and Intrinsic $1,3[\sigma^*(d)\sigma(s/p)]$ Excited States of Dinuclear d^{10} Complexes with Bridging Phosphane Ligands

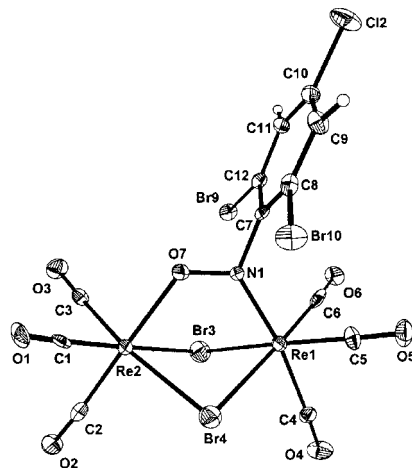
Keywords: Metallophilicity / Excited states / Dinuclear d^{10} complexes / Electronic structure / Solvent effects



1060 C. Krinninger, S. Wirth, P. Klüfers,
P. Mayer, I. P. Lorenz*

Absence of Dichroism in Dinuclear Rhenium Complexes with Sterically Hindered $\mu_2-(\eta^2-N,O)$ -Nitrosobenzene Ligands

Keywords: Dichroism / Dinuclear complexes / N ligands / Rhenium / Structure elucidation

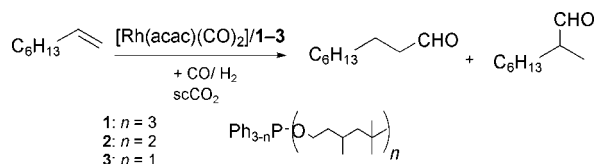


1067 M. Giménez-Pedros, A. Aghmiz, N. Ruiz,
A. M. Masdeu-Bultó



New Ligands for Rh-Catalysed Hydroformylation of 1-Octene in Supercritical Carbon Dioxide – X-ray Structure of $[\text{Rh}\{\text{PPh}_2(\text{OC}_9\text{H}_{19})\}_4]\text{PF}_6$

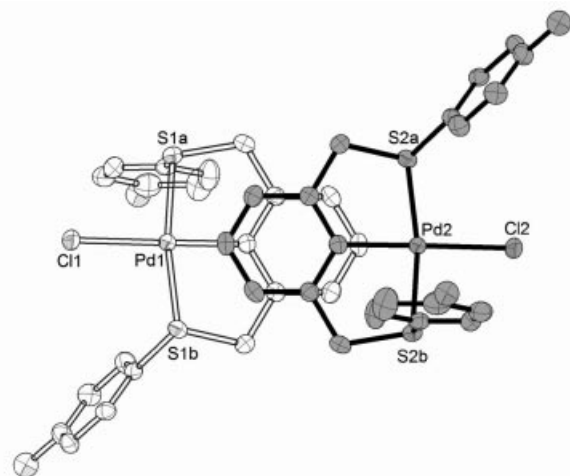
Keywords: Alkenes / Hydroformylation / P ligands / Rhodium / Supercritical fluids



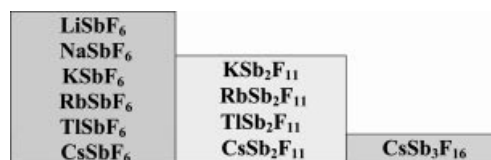
1076 R. Cervantes, S. Castillejos, S. J. Loeb,
L. Ortiz-Frade, J. Tiburcio, H. Torrens*

Palladium(II) Compounds with Fluorinated Pincer-Type (SCS) Ligands: X-ray Structures of C_6H_4 -1,3- $(\text{CH}_2\text{SC}_6\text{H}_4\text{F}-4)_2$ and $[\text{PdCl}(\text{SCS}-\text{R}_f)]$ [$\text{R}_f = \text{C}_6\text{H}_4\text{F}-2, \text{C}_6\text{H}_4\text{F}-3, \text{C}_6\text{H}_4\text{F}-4, \text{C}_6\text{H}_4(\text{CF}_3)-2, \text{and } \text{C}_6\text{H}_4(\text{CF}_3)-4$]

Keywords: Fluorine / Sulfur / Pincer ligands / Thioether / Palladium compounds



Synthesis and Characterisation of Alkali Metal
and Thallium Polyfluoroantimonates, $\text{ASb}_n\text{F}_{5n+1}$
($n = 2, 3$)



Keywords: Alkali metals / Antimony / Fluorides /
Lewis acids / Superacidic systems



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