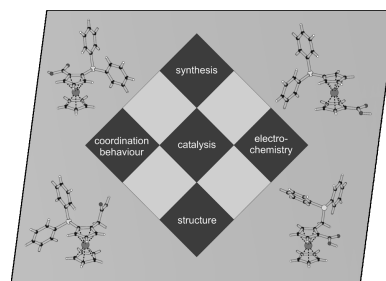


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COVER PICTURE

The cover picture shows the structures of ferrocene-based phosphanyl-carboxylic acids that have been synthesized, characterized by various physicochemical methods, and further utilized as novel organometallic synthons, ligands in coordination compounds, and components of various catalytic systems over the last ten years that have passed since the discovery of the first representative. Some aspects of the chemistry of these and other related phosphanyl-ferrocenecarboxylic ligands addressed in the Microreview by P. Štěpnička on p. 3787 ff. are indicated in the centre of the cover picture, which is arranged in a chessboard-like manner to emphasize their close, and sometimes causal, relations and complementarity.



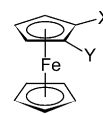
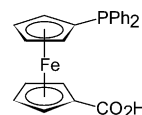
MICROREVIEW

Contents

3787 P. Štěpnička*

The Chemistry of Phosphanyl-ferrocenecarboxylic Ligands

Keywords: Ferrocene / Phosphanyl-carboxylic ligands /
 Coordination compounds / Catalysis /
 Phosphanes / Structure elucidation



X/Y = PPh₂/CO₂H
 CH₂CO₂H/PPh₂
 CH₂PPh₂/CO₂H

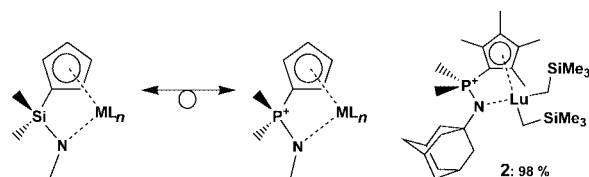
SHORT COMMUNICATION

- 3805** K. A. Rufanov,* A. R. Petrov, V. V. Kotov,
F. Laquai, J. Sundermeyer*



A Lutetium Cyclopentadienyl-Phosphazene Constrained Geometry Complex (CGC): First Isolobal Analogues of Group 4 Cyclopentadienyl-Silylamido CGC Systems

Keywords: Bridging ligands / Isolobal relationship / Phosphazenes / Constrained geometry complexes / Lutetium

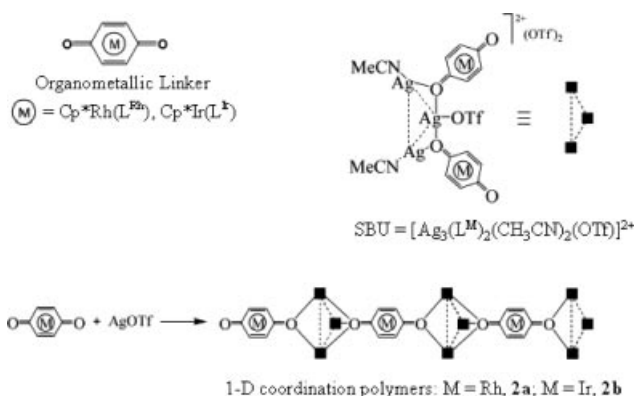


- 3808** J. Moussa, K. Boubekeur, H. Amouri*



Self-Assembly of 1-D Coordination Polymers Using Organometallic Linkers and Exhibiting Argentophilic Interactions $\text{Ag}^I \cdots \text{Ag}^I$

Keywords: Coordination polymers / Silver / Self-assembly / Quinones / Metal-metal interactions

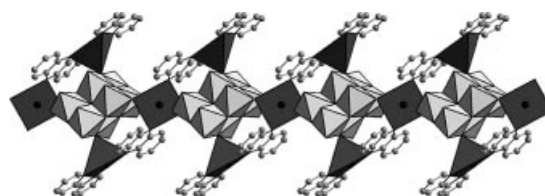


- 3811** Z. Shi, X. Gu, J. Peng,* Z. Xin



An Unprecedented One-Dimensional Chain Constructed from β -Octamolybdate Clusters and Two Kinds of Silver Complex Fragments

Keywords: Chainlike compound / Hydrothermal synthesis / Octamolybdate cluster / Ag complex



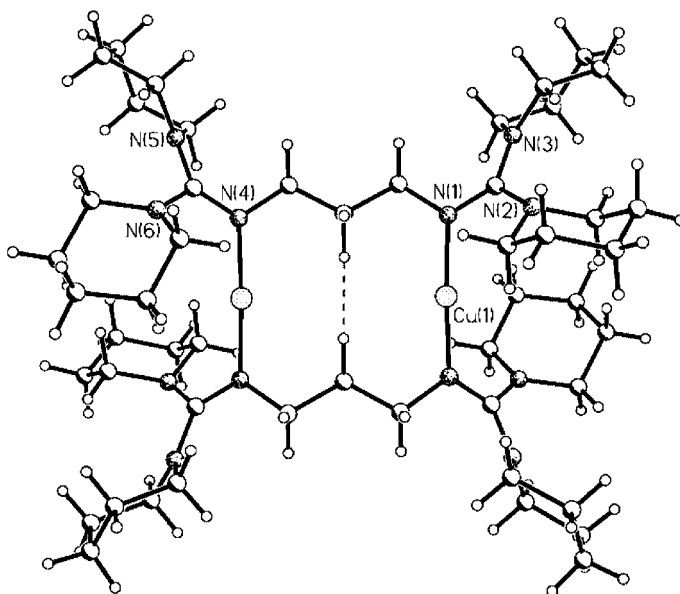
FULL PAPERS

- 3815** S. Herres-Pawlis, U. Flörke, G. Henkel*



Tuning of Copper(I)–Dioxygen Reactivity by Bis(guanidine) Ligands

Keywords: Bioinorganic chemistry / Copper / Guanidine ligands / Ligand design / O–O activation



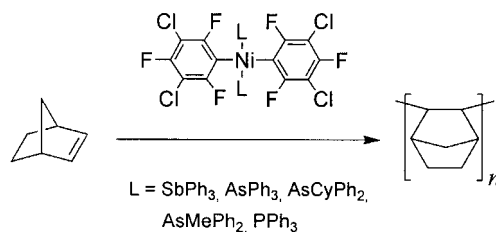
3825

J. A. Casares, P. Espinet,*
J. M. Martín-Alvarez,
J. M. Martínez-Illarduya, G. Salas



Stable Nickel Catalysts for Fast Norbornene Polymerization: Tuning Reactivity

Keywords: Homogeneous catalysis / As ligands / Sb ligands / Nickel / Polymerization / Norbornene / Pentafluorophenyl

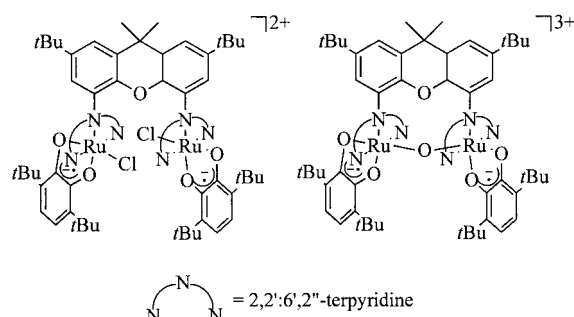


3832

T. Wada, K. Tanaka*

Reversible Bond Formation and Cleavage of the Oxo Bridge of $[\text{Ru}_2(\mu\text{-O})(\text{dioxolene})_2(\text{btpyxa})]^{3+}$ [**btpyxa** = 2,7-Di-*tert*-butyl-9,9-dimethyl-4,5-bis(2,2':6',2''-terpyrid-4'-yl)xanthene] Driven by a Three-Electron Redox Reaction

Keywords: Electronic structure / O ligands / Oxidation / Reduction / Ruthenium

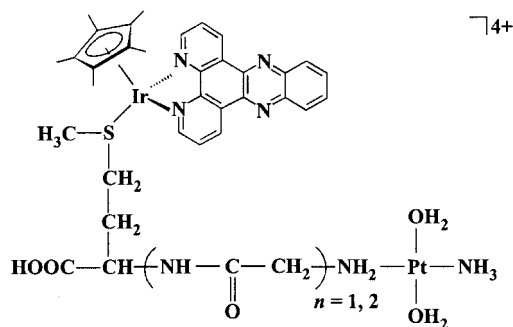


3840

S. Gençaslan, W. S. Sheldrick*

Bifunctional Bioorganometallic Iridium(III)–Platinum(II) Complexes Incorporating Both Intercalative and Covalent DNA Binding Capabilities

Keywords: Iridium / Platinum / Peptides / DNA binding / Bioinorganic chemistry

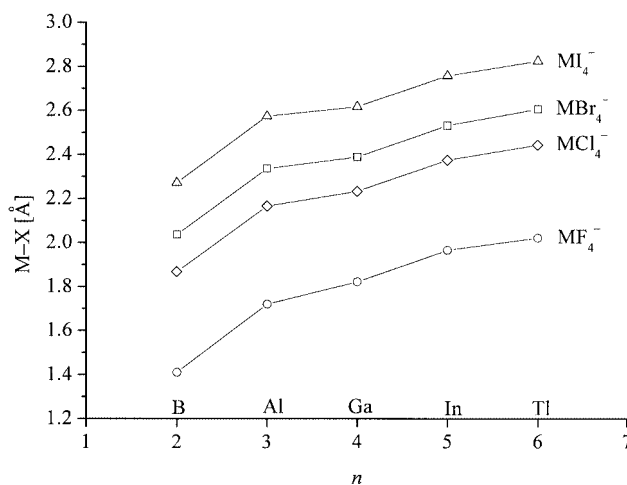


3850

K. Frąckiewicz, M. Czerwiński,
S. Siekierski*

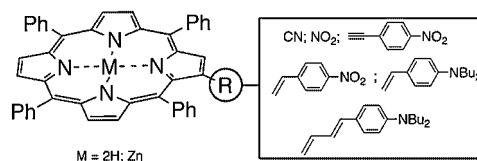
Secondary Periodicity in the Tetrahalogeno Complexes of the Group 13 Elements

Keywords: Quantum calculations / Electronic structure / Group 13 elements / Halogens / Secondary periodicity



3857 E. Annoni, M. Pizzotti,* R. Ugo, S. Quici, T. Morotti, M. Bruschi, P. Mussini

Synthesis, Electronic Characterisation and Significant Second-Order Non-Linear Optical Responses of *meso*-Tetraphenylporphyrins and Their Zn^{II} Complexes Carrying a Push or Pull Group in the β Pyrrolic Position

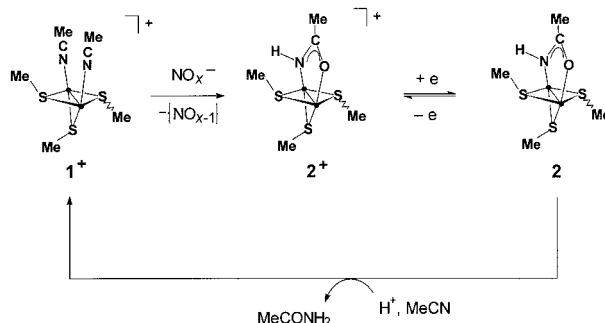


Keywords: Cyclic voltammetry / Nonlinear optics / Porphyrins / UV/Vis spectroscopy / Zinc

3875 M. Le Hénanf, C. Le Roy, F. Y. Pétilon, P. Schollhammer, J. Talarmin*



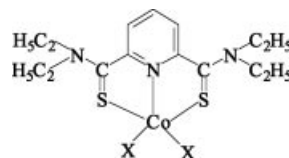
Nitrate- and Nitrite-Assisted Conversion of an Acetonitrile Ligand Into an Amidato Bridge at an {Mo₂(Cp)₂(μ -SMe)₃} Core: Electrochemistry of the Amidato Complex [Mo₂(Cp)₂(μ -SMe)₃{ μ - η^1, η^1 -OC(Me)NH}]⁺



Keywords: Bridging ligands / Cyclic voltammetry / Electrochemistry / Molybdenum / S ligands

3884 R. Kapoor,* A. Kataria, P. Venugopalan, P. Kapoor, G. Hundal, M. Corbella*

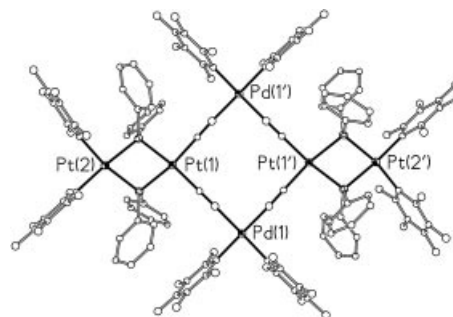
Coordination Chemistry of *N,N,N',N'*-Tetraethylpyridine-2,6-dithiocarboxamide (*S*-dept) – X-ray Crystal Structures and Magnetic Properties of [Co(*S*-dept)₂] (X = Br, I, and NCS)



Keywords: *N,N,N',N'*-Tetraethylpyridine-2,6-dithiocarboxamide / X-ray crystallography / IR / Zero-field splitting / EPR

3894 I. Ara, N. Chaouche, J. Forniés,* C. Fortuño, A. Kribii, A. Martín

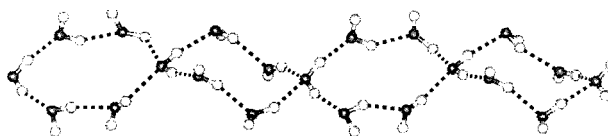
A Dinuclear Phosphidoplatinum(II) Fragment as a Building Block for Tri-, Tetra-, Hexa-, and Octanuclear Complexes



Keywords: Bridging ligands / Cyanides / P ligands / Platinum / Self-assembly

3902 B.-Q. Ma,* H.-L. Sun, S. Gao*

Vertex-Sharing Water Tape Consisting of Cyclic Hexamers



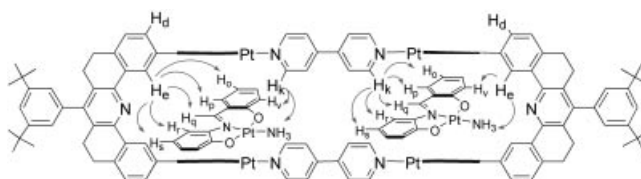
Keywords: Water aggregates / Cyanides / Hydrogen bonds

3907 J. D. Crowley, I. M. Steele, B. Bosnich*



Molecular Recognition – Allosterism Generated by Weak Host–Guest Interactions in Molecular Rectangles

Keywords: Host–guest systems / Molecular recognition / Allosterism / Self-assembly / Supramolecular chemistry

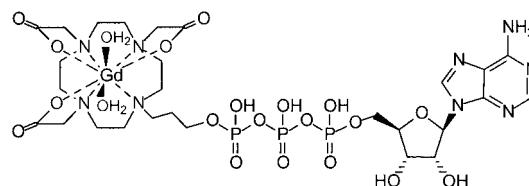


3918 S. J. Ratnakar, V. Alexander*



Synthesis and Relaxivity Studies of a Gadolinium(III) Complex of ATP-Conjugated DO3A as a Contrast Enhancing Agent for MRI

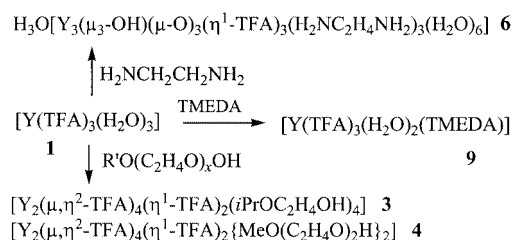
Keywords: Gadolinium / Imaging agents / Macrocyclic ligands / N ligands



3928 J. Zhang, S. Morlens, L. G. Hubert-Pfalzgraf,* D. Luneau

Synthesis, Characterization and Molecular Structures of Yttrium Trifluoroacetate Complexes with O- and N-Donors: Complexation vs. Hydrolysis

Keywords: Carboxylate ligands / Fluorinated ligands / N ligands / Superconductors / Yttrium

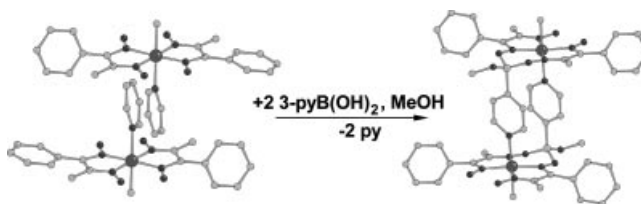


3936 R. Dreos,* P. Siega, S. Scagliola, L. Randaccio,* G. Nardin, C. Tavagnacco, M. Bevilacqua



Synthesis, Characterization, and Electrochemical Properties of Dinuclear Complexes Assembled from Asymmetric Co^{III} Bis(dioximates) and Boronic Acids

Keywords: Boronic acid / Cobalt / Dioximes / Enantioselectivity / Electrochemistry

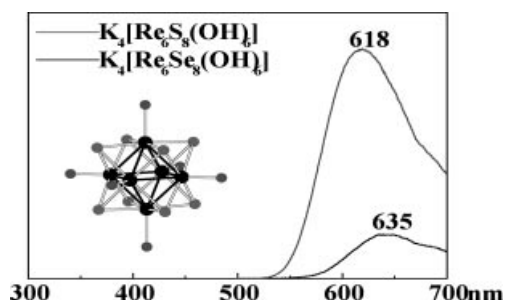


3945 S. S. Yarovoi, Y. V. Mironov, D. Y. Naumov, Y. V. Gatilov, S. G. Kozlova, S.-J. Kim, V. E. Fedorov*



Octahedral Hexahydroxo Rhenium Cluster Complexes [Re₆Q₈(OH)₆]^{4−} (Q = S, Se): Synthesis, Structure, and Properties

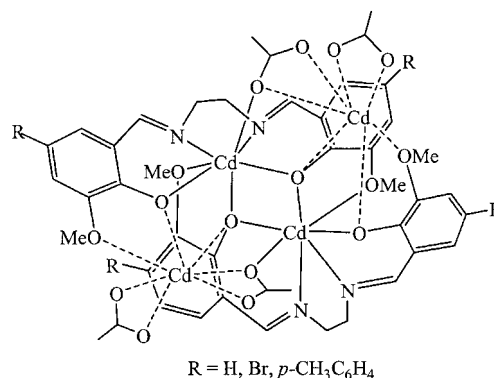
Keywords: Rhenium / Hexahydroxo complexes / Cluster compounds / Electronic structure / Luminescence



3950 W.-K. Lo, W.-K. Wong,* W.-Y. Wong,
J. Guo

Synthesis, Crystal Structures and Photophysical Properties of Novel Tetranuclear Cadmium(II) Schiff-Base Complexes

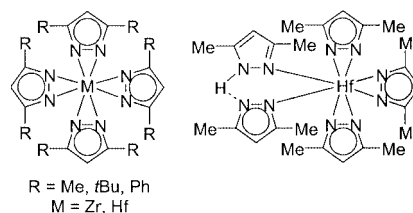
Keywords: Cadmium / Crystal structures / Phosphorescence / Schiff bases



3955 E. Sebe, I. A. Guzei, M. J. Heeg,
L. M. Liable-Sands, A. L. Rheingold,
C. H. Winter*

Synthesis Structure, and Properties of Zirconium and Hafnium Complexes Containing η^2 -Pyrazolato Ligands

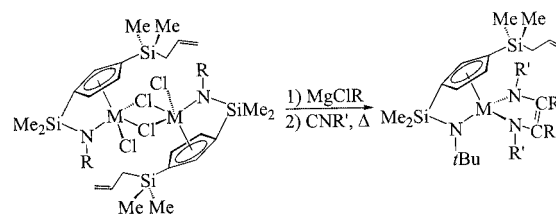
Keywords: Group-4 transition metals / Zirconium / Hafnium / Pyrazolato ligands / N ligands / Intramolecular hydrogen bond



3962 C. Ramos, P. Royo,* M. Lanfranchi,
M. A. Pellinghelli, A. Tiripicchio

Zirconium and Hafnium Complexes with (Allylsilyl)(η -amidosilyl)- η^5 -cyclopentadienyl Ligands: Synthesis, Structure and Reactivity

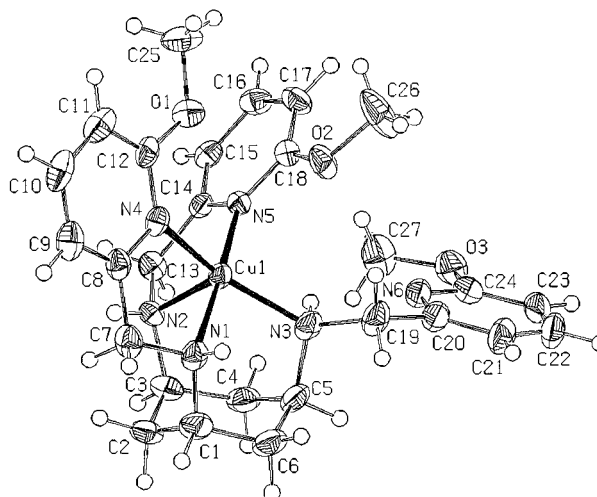
Keywords: Insertion / Isocyanides / Hafnium / Metallocenes / Zirconium



3971 M. L. Childers, F. Su, A. M. Przyborowska,
B. Bishwokarma, G. Park,
M. W. Brechbiel, S. V. Torti, F. M. Torti,
G. Broker, J. S. Alexander, R. D. Rogers,
K. Ruhlandt-Senge, R. P. Planalp*

Pyridine-Ring Alkylation of Cytotoxic *r*-1,*c*-3,*c*-5-Tris[(2-pyridylmethyl)amino]cyclohexane Chelators: Structural and Electronic Properties of the Mn^{II} , Fe^{II} , Ni^{II} , Cu^{II} and Zn^{II} Complexes

Keywords: Antitumor activity / Tripodal ligands / Ligand design / Iron / Zinc / Copper



Indium(i) Hexafluoropnictates (InPnF_6 ; Pn = P, As, Sb)

Keywords: Fluorides / Indium / Pnictides / Raman spectroscopy / Structure elucidation

