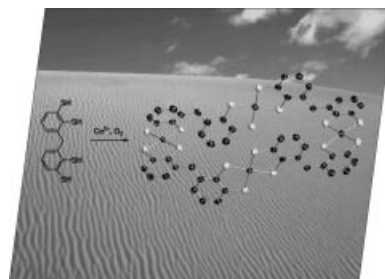


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COVER PICTURE

The cover picture shows the self-assembly of a tetranuclear Co^{III} metallacycle from the reaction of a bis(benzene-*o*-di-thiolato) ligand and Co^{II} after aerial oxidation. Two differently coordinated metal centres (*syn* and *anti*) are observed in the metallacycle even though a ligand with two identical donor sites has been used. This unusual structural motif is formed in order to avoid strong steric interactions between the *ortho*-sulfur atoms, which would result in a hypothetical dinuclear complex. Details are discussed in the article by F. E. Hahn et al. on p. 535ff.



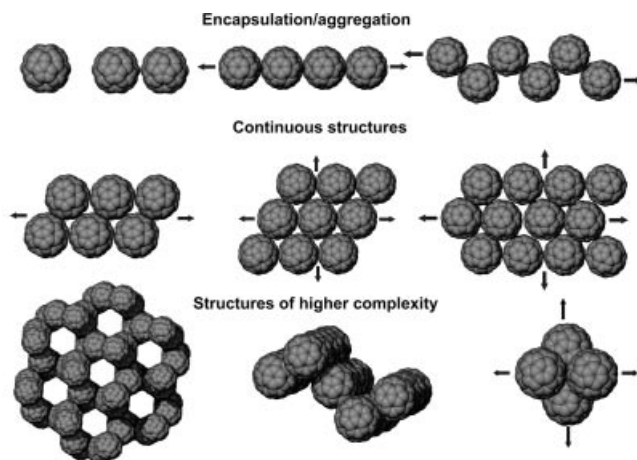
MICROREVIEW

Contents

507 M. Makha, A. Purich, C. L. Raston,*
 A. N. Sobolev

Structural Diversity of Host–Guest and Inter-
 calation Complexes of Fullerene C_{60}

Keywords: Fullerenes / Crystal structures / Packing
 models / Host–guest interactions

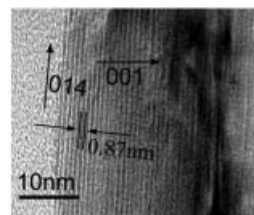


SHORT COMMUNICATIONS

519 J. Ma, X. Liu,* X. Cao, S. Feng, M. E. Fleet

Bundle of Nanobelts Up to 4 cm in Length:
One-Step Synthesis and Preparation of Titanium
Trisulfide (TiS₃) Nanomaterials

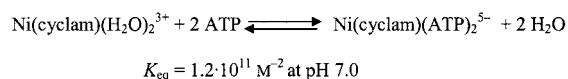
Keywords: One dimensional / Nanostructures /
Layered compounds / Titanium / Sulfides /
CVT / One-step synthesis



523 D. Shamir, I. Zilbermann,* E. Maimon,
A. I. Shames, H. Cohen, D. Meyerstein*

Pyrophosphate and ATP as Stabilizing Ligands
for High-Valent Nickel Complexes

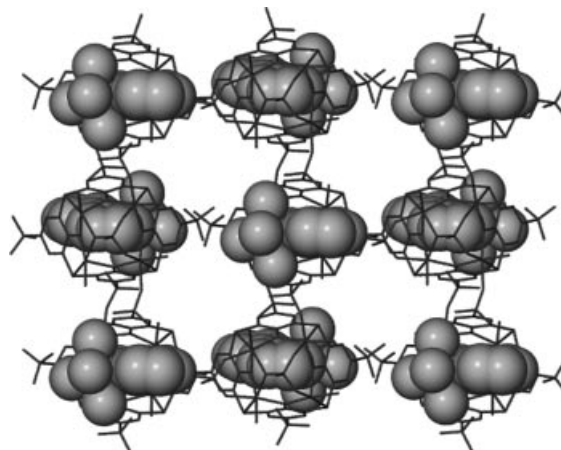
Keywords: ATP / Cyclam / High-valent transition
metal complexes



526 M. Wu, D. Yuan, L. Han, B. Wu, Y. Xu,
M. Hong*

Inclusion of Metal Complexes into Cavities of
2D Coordination Networks Built from *p*-Sulfon-
atothiacalix[4]arene Tetranuclear Clusters

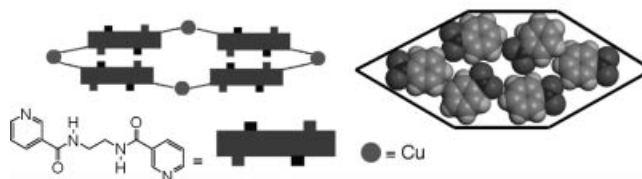
Keywords: *p*-Sulfonatothiacalix[4]arene / Supramole-
cular chemistry / Coordination polymer /
Inclusion



531 M. Sarkar, K. Biradha*

Entrapment of a Hexamer of Nitrobenzene
Molecules between the Layers of (4,4)-Coordi-
nation Networks Containing Intra-β-Sheet
Hydrogen Bonds

Keywords: Coordination networks / Hydrogen bonds /
Aggregation / Host-guest systems

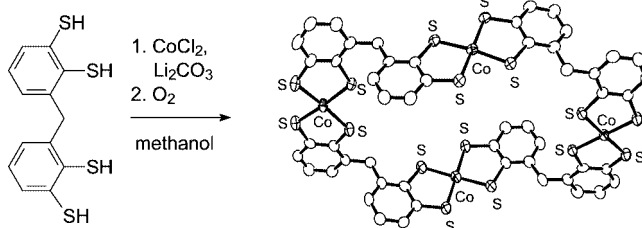


FULL PAPERS

535 F. E. Hahn,* T. Kreickmann, T. Pape

Self-Assembly of a Tetranuclear Co^{III}-Metalla-
cycle from the Reaction of a Bis(benzene-*o*-
dithiolato) Ligand with Co^{II} and Subsequent
Aerial Oxidation

Keywords: Cobalt / S ligands / Metallacycles / Self-
assembly

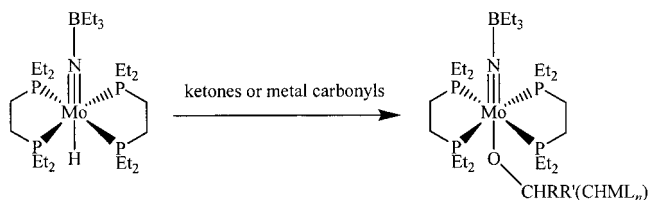


540 J. Cugny, H. W. Schmalle, T. Fox,
O. Blacque, M. Alfonso, H. Berke*



Hydride Transfer Reactivity of $\text{Mo}(\text{L})(\text{H})(\text{depe})_2$
($\text{L} = \text{N}, \text{NBEt}_3$)

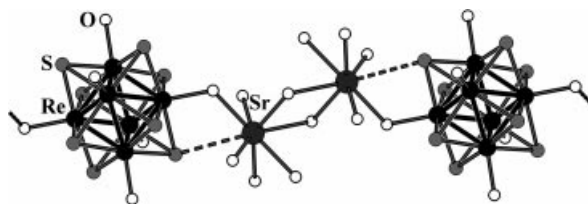
Keywords: Hydride complexes / Hydride transfer reaction / Insertion reaction / Nitride complexes / Phosphane complexes / Molybdenum



553 Y. V. Mironov, V. E. Fedorov,* H. Bang,
S.-J. Kim*

The First Coordination Polymers Based on Octahedral Hexahydroxo Rhenium Cluster Complexes $[\text{Re}_6\text{Q}_8(\text{OH})_6]^{4-}$ ($\text{Q} = \text{S}, \text{Se}$) and Alkaline Earth Metal Cations

Keywords: Rhenium / Synthesis / Luminescent properties / Cluster compounds

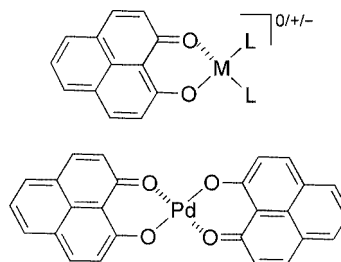


558 T. Mochida,* R. Torigoe, T. Koinuma,
C. Asano, T. Satou, K. Koike, T. Nikaido



Platinum-Group Chelate Complexes with 9-Hydroxyphenalenone Derivatives: Synthesis, Structures, Spectroscopic Properties and Cytotoxic Activities

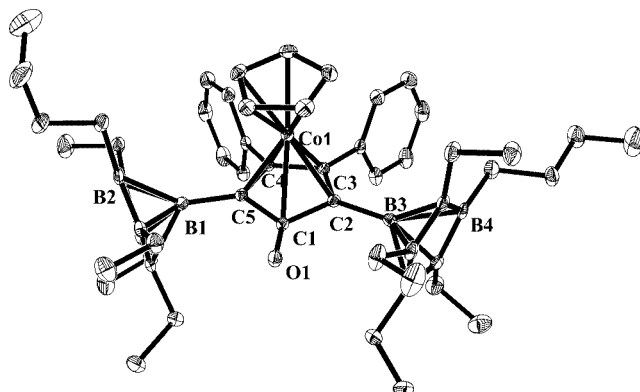
Keywords: Platinum / Rhodium / Palladium / O ligands / Metal-metal interactions



566 A. Goswami, Y. Nie, T. Oeser, W. Siebert*

Reactivity of Carboranylacetylenes towards Cobalt Complexes

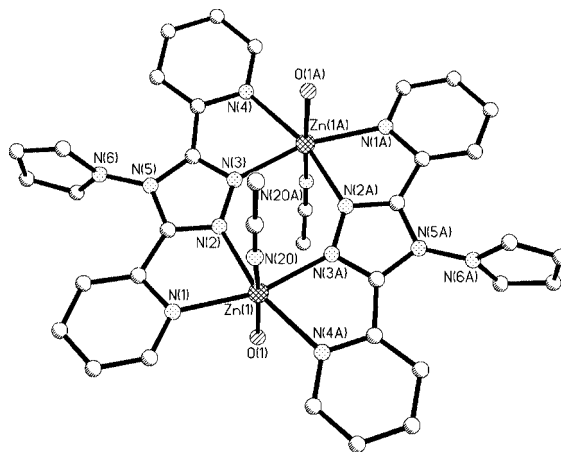
Keywords: Carboranes / Carboranylacetylenes / Cobalt / (Cyclobutadiene)cobalt complexes / (Cyclopentadienone)cobalt complexes





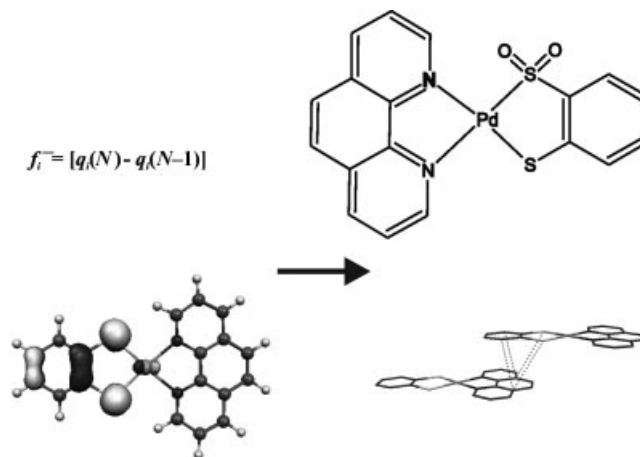
Probing the Dinucleating Behaviour of a Di-Bidentate Ligand: Synthesis and Characterisation of Some Di- and Mononuclear Cobalt(II), Nickel(II), Copper(II) and Zinc(II) Complexes of 3,5-Bis(2-pyridyl)-4-(1*H*-pyrrol-1-yl)-4*H*-1,2,4-triazole

Keywords: 1,2,4-Triazoles / Bridging ligands / N ligands / Copper complexes / Cobalt complexes / Nickel complexes / Zinc complexes / Magnetic properties



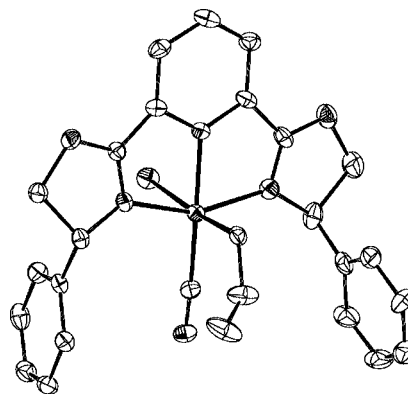
An Investigation of the Reactivity of [(diimine)-(dithiolato)M] Complexes Using the Fukui Functions Concept

Keywords: Density functional calculations / Fukui indices / Oxidation / S ligands / Schiff bases / Stacking interactions



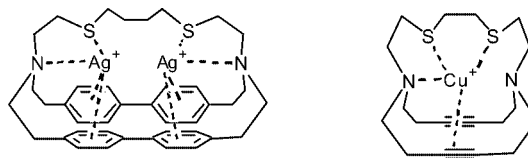
Novel Carbonyliridium and -rhodium Complexes Containing 2,6-Bis[(4'*S*)-4'-isopropyl-oxazolin-2'-yl]pyridine (*i*Pr-pybox) and 2,6-Bis[(4'*R*)-4'-phenyloxazolin-2'-yl]pyridine (Ph-pybox) Ligands

Keywords: Carbonyl complexes / Homogeneous catalysis / Iridium / N ligands / Rhodium



Synthesis and Properties of Cryptands with a Thioether Bridge and π -Donors – Silver(I) and Copper(I)-Complexes

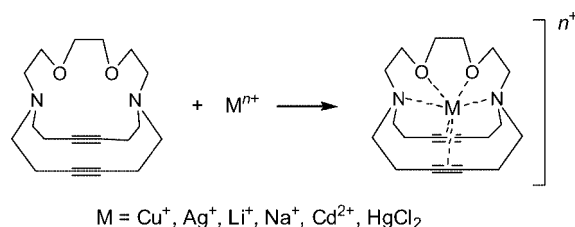
Keywords: Cage compounds / Alkynes / Silver / Copper



621 A. Kunze, R. Gleiter,* F. Rominger

A Prime Example of Hard-Hard and Soft-Soft Interactions: Complexes between 4,7-Dioxo-1,10-diazabicyclo[8.6.6]docosa-13,19-diyne and Li^+ , Na^+ , Cu^+ , Ag^+ , Cd^{2+} , Hg^{2+}

Keywords: Cage compounds / Alkynes / Metal complexes

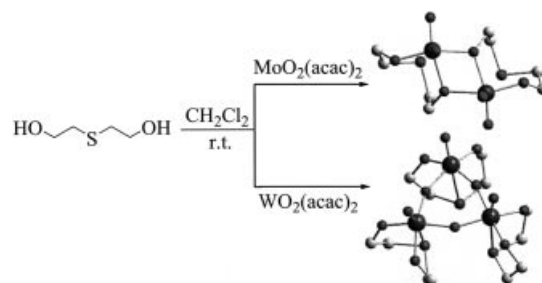


628 X. Ma, K. Starke, C. Schulzke,*
H.-G. Schmidt, M. Noltemeyer



Structural, Electrochemical, and Theoretical Investigations of New Thio- and Selenoether Complexes of Molybdenum and Tungsten

Keywords: Bioinorganic chemistry / Molybdenum / Tungsten / Ligand effects / Redox chemistry

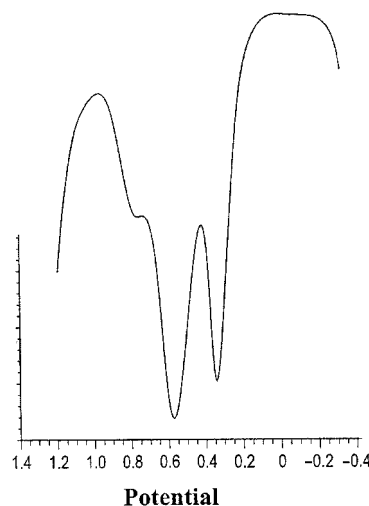


638 A. Doménech,* F. J. Torres, E. Ruiz de Sola,
J. Alarcón



Electrochemical Detection of High Oxidation States of Chromium(IV and V) in Chromium-Doped Cassiterite and Tin-Sphene Ceramic Pigmenting Systems

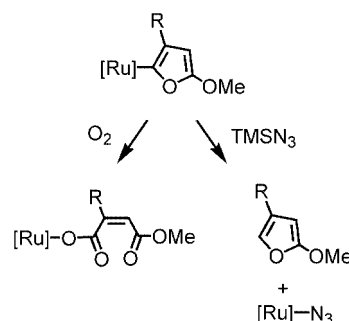
Keywords: Chromium / High oxidation states / Voltammetry / Cassiterite / Tin-sphene



649 K.-H. Chang, H.-L. Sung, Y.-C. Lin*

Reactions of Furylruthenium Complexes with Oxygen and Trimethylsilyl Azide

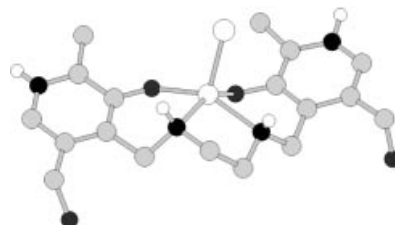
Keywords: Ruthenium / Furyl ligand / Oxygen



656 I. Correia, A. Dornyei, F. Avecilla, T. Kiss,*
J. Costa Pessoa*

X-ray Crystal Structure and Characterization in Aqueous Solution of $\{N,N'$ -Ethylenebis-(pyridoxylaminato)}zinc(II)

Keywords: N,O ligands / Speciation / Structure elucidation / Zinc

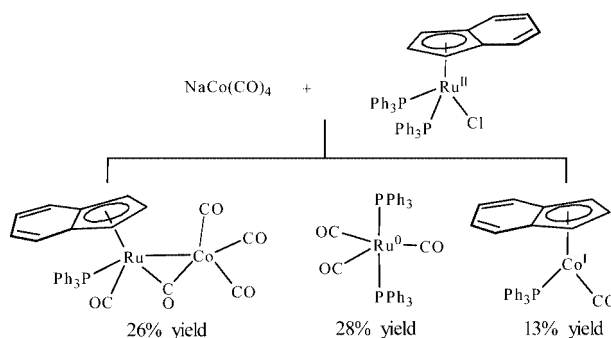


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S. Y. Ng, L. Y. Goh,* L. L. Koh,
W. K. Leong*, G. K. Tan, S. Ye, Y. Zhu

Heterobimetallic Ruthenium-Cobalt Complexes
Containing the Pentamethylcyclopentadienyl or
Indenyl Ligand

Keywords: Heterometallic complexes / Ruthenium /
Cobalt / Phosphanes / Indenyl

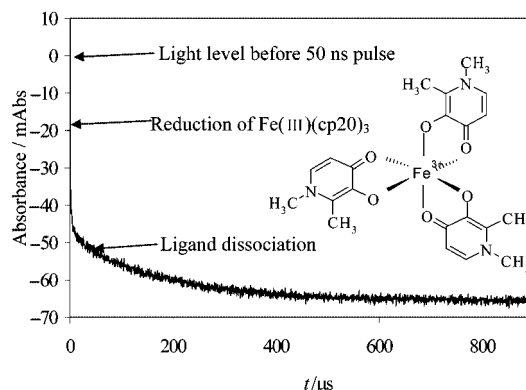


671

M. Merkofer, A. Domazou, T. Nauser,
W. H. Koppenol*

Dissociation of CP20 from Iron(II)(cp20)₃: A
Pulse Radiolysis Study

Keywords: Iron / Chelates / Reduction / Electron trans-
fer / Kinetics



CORRECTION

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W. Niu, E. H. Wong, G. R. Weisman,*
Y. Peng, C. J. Anderson, L. N. Zakharov,
J. A. Golen, A. L. Rheingold

Structural and Dynamic Studies of Zinc,
Gallium, and Cadmium Complexes of a Dicar-
boxylate Pendant-Armed Cross-Bridged Cyclen

Keywords: Zinc / Gallium / Cadmium / Cyclen / Cross-
bridged ligand / Pendant arms



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