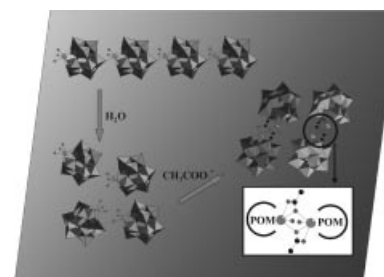


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COVER PICTURE

The cover picture shows the synthetic pathway leading to the first polyoxometalate complex where two subunits are linked by negatively charged organic ligands via a cationic center present inside the polyoxometalate. The strategy used, together with the influence of the nature of the rare earth and the ligand concentration on the final product, are developed in the Short Communication by P. Mialane et al. on p. 33 ff.



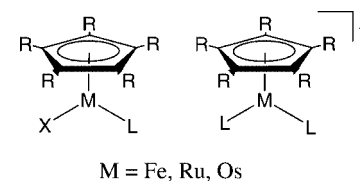
MICROREVIEW

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- 17 **M. Jiménez-Tenorio, M. C. Puerta,
 P. Valerga***

Structure and Reactivity of Coordinatively Un-
 saturated Half-Sandwich Iron, Ruthenium and
 Osmium Complexes

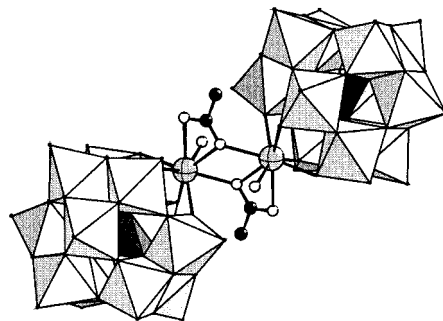
Keywords: Transition metals / Phosphane ligands /
 Electron-deficient compounds / Cyclopent-
 tadienyl ligands / Agostic interactions /
 Sandwich complexes



SHORT COMMUNICATION

- 33 P. Mialane,* A. Dolbecq, E. Rivière,
J. Marrot, F. Sécheresse

Functionalization of Polyoxometalates by a Negatively Charged Bridging Ligand: The Dimeric $[(\text{SiW}_{11}\text{O}_{39}\text{Ln})_2(\mu\text{-CH}_3\text{COO})_2]^{12-}$ ($\text{Ln} = \text{Gd}^{\text{III}}, \text{Yb}^{\text{III}}$) Complexes

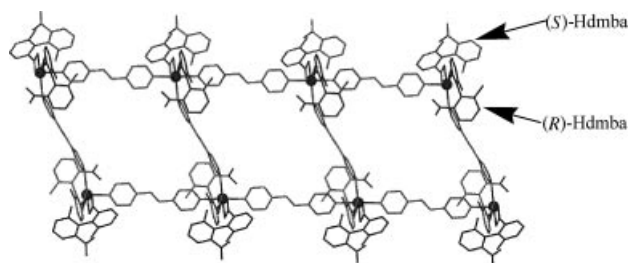


Keywords: Coordination chemistry / Lanthanides / Magnetic properties / Polyoxometalates

FULL PAPERS

- 37 R. Wang, M. Hong,* D. Yuan, Y. Sun,
L. Xu, J. Luo, R. Cao, A. S. C. Chan

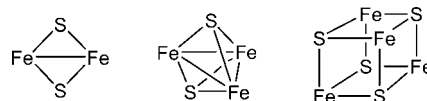
The Role of Spacers between Carboxylate Groups in Self-Assembly Process: Syntheses and Characterizations of Two Novel Cadmium(II) Complexes Derived from Mixed Ligands



Keywords: Cadmium / Bridging ligands / X-ray diffraction / Polymers / Self assembly

- 44 K. Koszinowski, D. Schröder, H. Schwarz*

Formation and Reactivity of Gaseous Iron-Sulfur Clusters

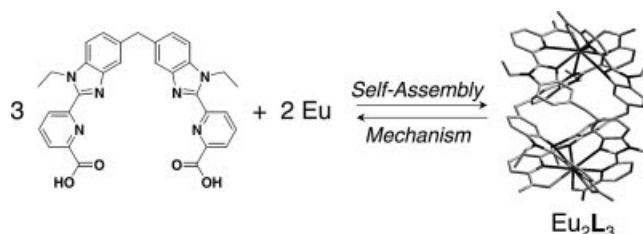


Keywords: Cluster compounds / Electron transfer / Gas-phase reactions / Iron / Sulfur

- 51 M. Elhabiri, J. Hamacek, J.-C. G. Bünzli,
A.-M. Albrecht-Gary*



Lanthanide Homobimetallic Triple-Stranded Helicates: Insight into the Self-Assembly Mechanism



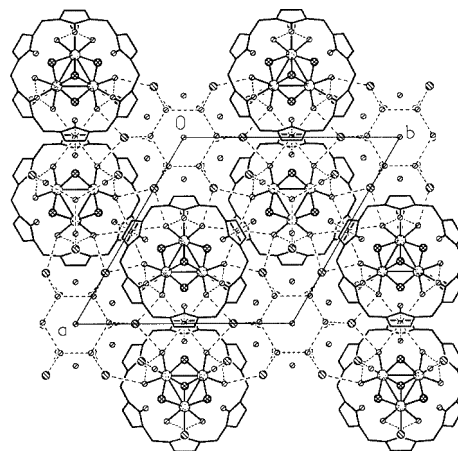
Keywords: Europium / Helicates / Mechanisms / Self-assembly / Supramolecular chemistry

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M. N. Sokolov,* O. A. Gerasko,
D. N. Dybtsev, E. V. Chubarova,
A. V. Virovets, C. Vicent, R. Llusar,
D. Fenske, V. P. Fedin

Supramolecular Chemistry Based on
[W₃S₄(H₂O)₆Cl₃]⁺ – A Versatile Building Block

Keywords: Cluster compounds / Tungsten / Antimony / Cucurbituril / Supramolecular chemistry

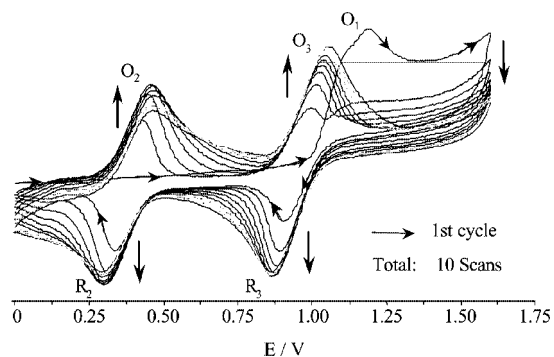


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F. Zhao, X. Xu, S. B. Khoo,*
T. S. A. Hor*

Structure-Dependent Electrochemical Behavior of Thienylplatinum(II) Complexes of N,N-Heterocycles

Keywords: Platinum / N ligands / Cyclic voltammetry / Thin films / Heterocycles

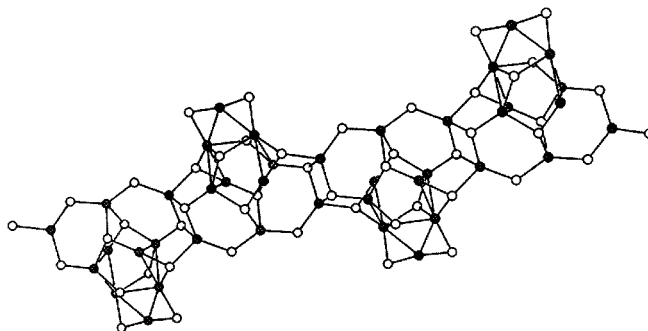


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K. Tang, X. Xie, L. Zhao, Y. Zhang,
X. Jin*

Synthesis and Crystal Structure of {[HNet₃]_{2n}-[Ag₈Ag_{4/2}(SC₆H₄tBu-4)₁₂]_n·nC₂H₅OH} and Its Reaction Product with CS₂

Keywords: Silver / Polymers / Sulfur / Clusters

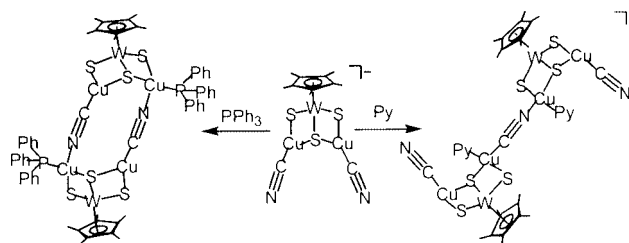


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J.-P. Lang,* Q.-F. Xu, W. Ji, H. I. Elim,
K. Tatsumi

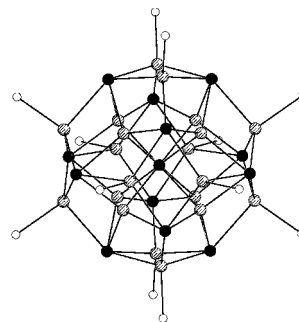
Syntheses, Crystal Structures and Optical Limiting Properties of Three Novel Organometallic Tungsten-Copper-Sulfur Clusters: [PPh₄][{(η⁵-C₅Me₅)WS₃(CuCN)₂}, [(η⁵-C₅Me₅)-WS₃Cu₂(PPh₃)(μ-CN)₂] and [PPh₄][{(η⁵-C₅Me₅)WS₃Cu₂(CN)(Py)}₂(μ-CN)]

Keywords: Copper / Tungsten / Sulfur / Cluster compounds



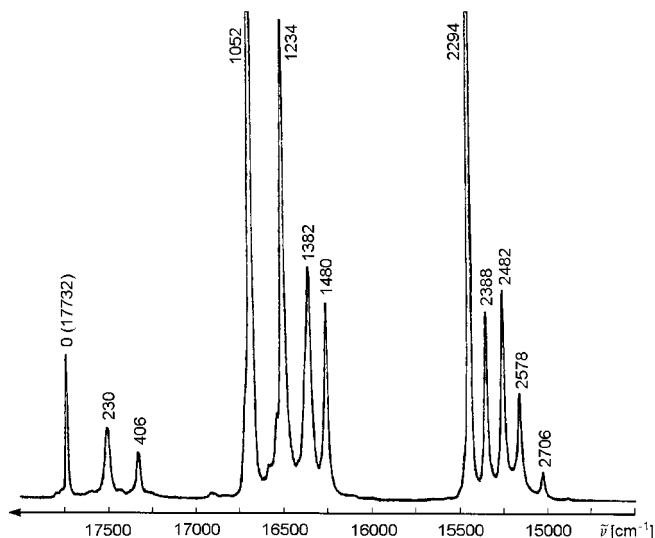
Investigation of the Thermal Properties of
[Cu₂₀Se₁₃(PEt₃)₁₂]

Keywords: Cluster compounds / Mixed-valent
compounds / Thermogravimetry /
Copper / Selenium



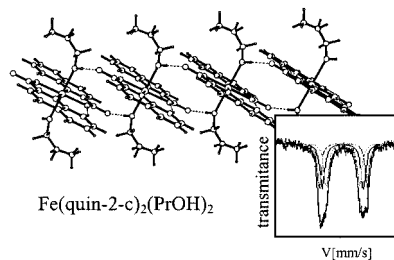
Crystal Field Strengths, Nephelauxetic Effects,
and Experimentally Based Molecular Orbital
Schemes (in the f Range) of Selected Cyclo-
pentadienyl Complexes of Samarium(III)

Keywords: Lanthanides / Cyclopentadienyl ligands /
Optical spectra / Crystal field analysis /
Molecular orbital schemes



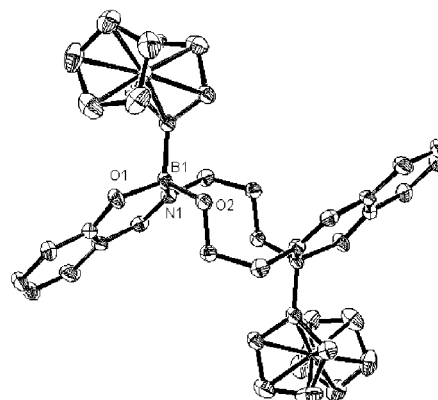
Synthesis, Spectroscopy, and Magnetic Proper-
ties of Fe^{II} and Co^{II} Quinoline-2-carboxylates –
Crystal Structure of *trans*-Bis(quinoline-2-carb-
oxylato)bis(propanol)iron(II)

Keywords: Vibrational spectroscopy / Magnetic
properties / Iron / Cobalt / Quinoline-2-
carboxylates



Study of the Reaction of Tridentate Ligands
with Ferrocenyl Boronic Acid

Keywords: Cyclizations / Boron / Tridentate ligands /
Ferrocene



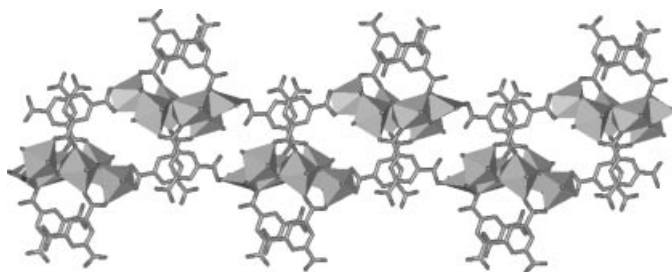
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J. Tao,* X. Yin, Z.-B. Wei, R.-B. Huang,
L.-S. Zheng



Hydrothermal Syntheses, Crystal Structures and Photoluminescent Properties of Three Metal-Cluster Based Coordination Polymers Containing Mixed Organic Ligands

Keywords: Coordination polymers / Zinc / Cadmium / 5-Sulfoisophthalate / 5-Nitroisophthalate



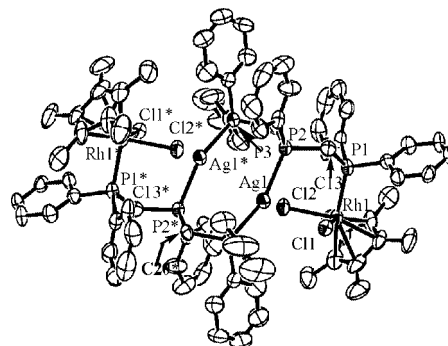
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Y. Yamamoto,* Y. Kosaka, Y. Tsutsumi,
Y. Kaburagi, K. Kuge, Y. Sunada,
K. Tatsumi



Homo- and Heteronuclear Complexes of (Pentamethylcyclopentadienyl)rhodium(III) Bearing Bis(diphenylphosphanylmethyl)phenylphosphane

Keywords: Rhodium / Gold / Copper / Silver / Cluster compounds / P ligands

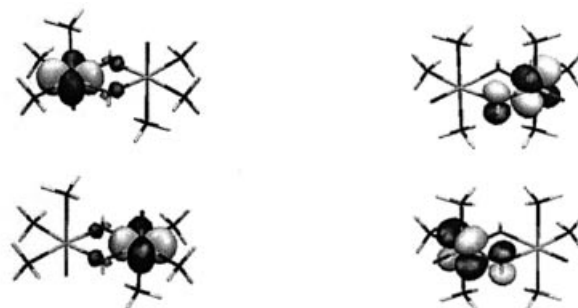


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A. Rodríguez-Forteza,* P. Alemany,
S. Alvarez, E. Ruiz

A Theoretical Study of the Exchange Coupling in Hydroxo- and Alkoxo-Bridged Dinuclear Oxovanadium(IV) Compounds

Keywords: Exchange coupling / Density functional calculations / Magnetic properties / Magneto-structural correlations / Vanadium

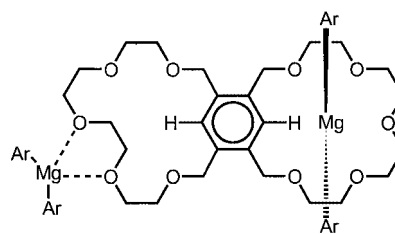


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G. P. M. van Klink, T. Nomoto, M. Lutz,
A. L. Spek, O. S. Akkerman,
F. Bickelhaupt*

In Quest of the Double Rotaxane Formation of the Bis(coronand) (1,5),(2,4)-Durenetetraylbis(18-crown-5) with Organomagnesium Compounds

Keywords: Magnesium / Mercury / Chelates / Crown compounds



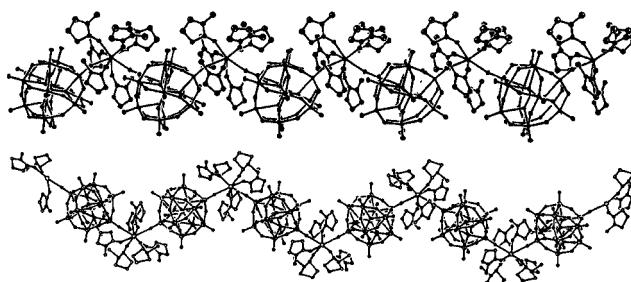
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J.-Y. Niu,* M.-L. Wei, J.-P. Wang,*
D.-B. Dang



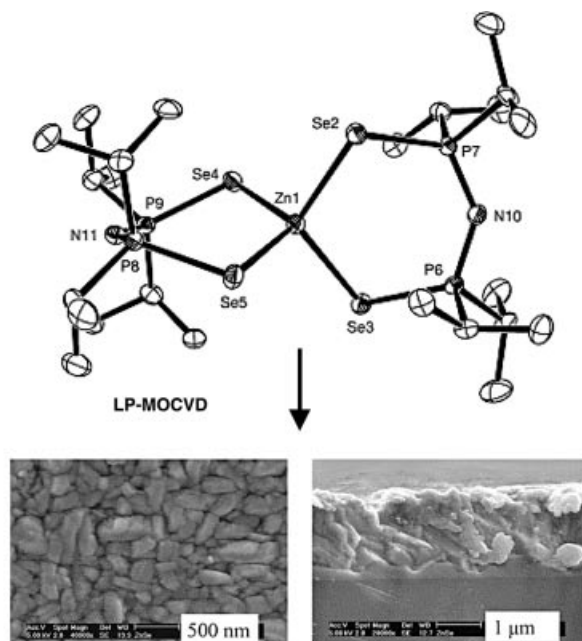
1D-Polyoxometalate-Based Composite Compounds – Design, Synthesis, Crystal Structures, and Properties of $\{[Ln(NMP)_6](PMO_{12}O_{40})_n\}$ (Ln = La, Ce, Pr; NMP = *N*-methyl-2-pyrrolidone)

Keywords: Polyoxometalates / Oxo ligands / Lanthanides / Structure elucidation / Zig-zag chain



- 171 M. Afzaal, D. Crouch, M. A. Malik,
M. Motevalli, P. O'Brien,* J.-H. Park,
J. D. Woollins

Deposition of II-VI Thin Films by LP-MOCVD
Using Novel Single-Source Precursors

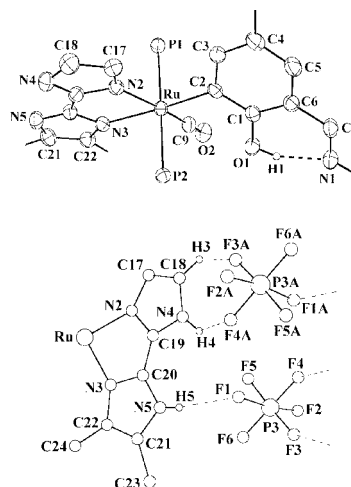


Keywords: Chemical vapour deposition / Chalcogens /
Zinc / Cadmium

- 178 B. K. Panda, S. Sengupta, A. Chakravorty*



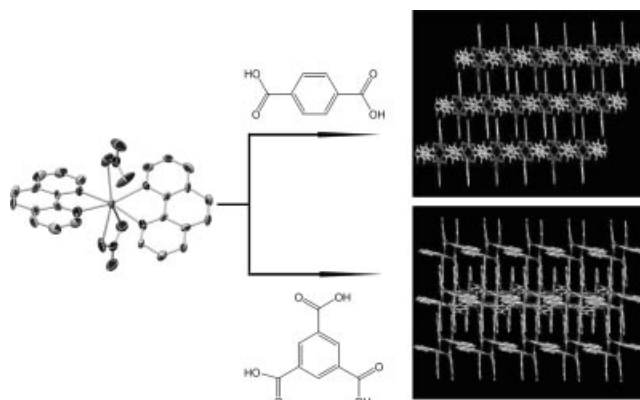
Synthesis, Structure, and Properties of Biimidazole-Chelated Arylruthenium Complexes



Keywords: Ruthenium / Fluorescence / Macrocyclic
ligands / Hydrogen bonding

- 185 X. Shi, G. Zhu,* Q. Fang, G. Wu,
G. Tian, R. Wang, D. Zhang, M. Xue,
S. Qiu*

Novel Supramolecular Frameworks Self-Assembled from One-Dimensional Polymeric Coordination Chains



Keywords: Supramolecular chemistry / Coordination
modes / Fluorescence / Polymers