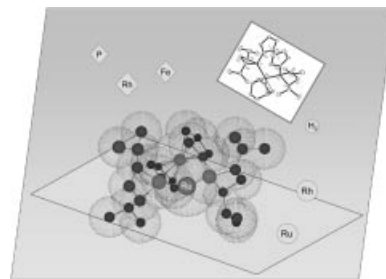


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COVER PICTURE

The cover picture shows the X-ray crystal structures of ruthenium and rhodium complexes of chiral 1,1'-bis(phosphetano)ferrocenes. These diphosphanes rank among the ligands inducing excellent enantioselectivities in rhodium-promoted hydrogenations of prochiral olefins. X-ray crystal structures of their metal complexes afford information about their coordinating behaviour and preferred conformations in catalytically active species. Details are discussed in the article by A. Marinetti et al. on p. 2583 ff.



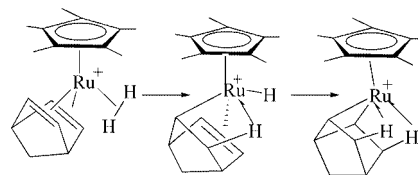
MICROREVIEW

Contents

2551 G. Jia,* Z. Lin, C. P. Lau

Reactions of Dihydrogen(norbornadiene)
 Complexes

Keywords: Transition metals / Hydride ligands /
 Hydrogenations / Norbornadiene /
 Dihydrogen ligands

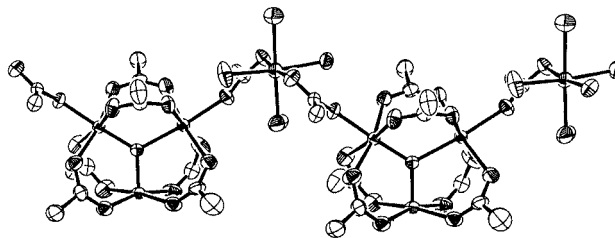


SHORT COMMUNICATIONS

2563 J. Kim,* J. M. Lim, Y. Do*

A Novel One-Dimensional Chain Complex Composed of Oxo-Centered Trinuclear Manganese Clusters

Keywords: Magnetic properties / Manganese / Oxo ligands / Clusters

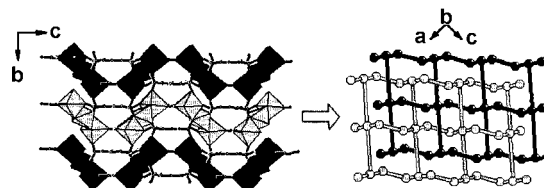


2567 Y.-G. Li, N. Hao, E.-B. Wang,* Y. Lu, C.-W. Hu, L. Xu



A Novel Three-Dimensional Metal-Organic Framework Constructed from Two-Dimensional Interpenetrating Layers Based on Trinuclear Cobalt Clusters: $[\text{Co}_3(\text{btec})(\text{C}_2\text{O}_4)(\text{H}_2\text{O})_2]_n$

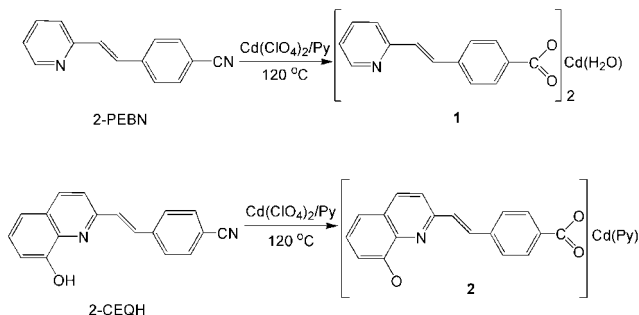
Keywords: Hydrothermal synthesis / Carboxylate ligands / Cobalt / Coordination polymers / Magnetic properties



2572 J. Zhang, Y.-R. Xie, Q. Ye, R.-G. Xiong,* Z. Xue, X.-Z. You*

Blue to Red Fluorescent Emission Tuning of a Cadmium Coordination Polymer by Conjugated Ligands

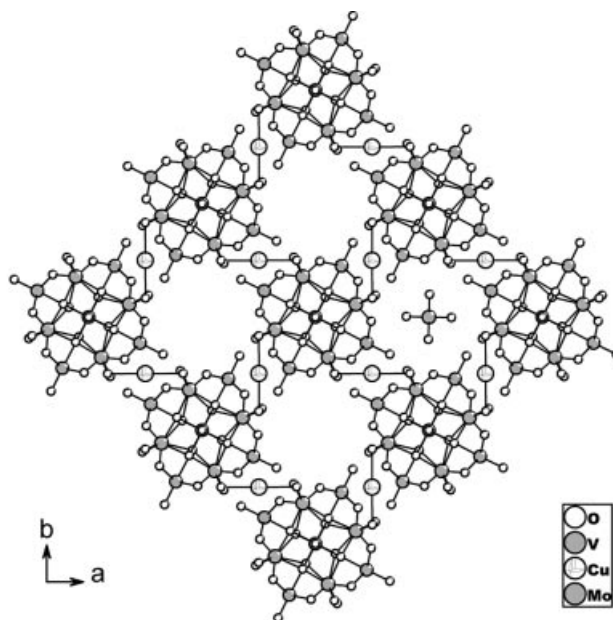
Keywords: Cadmium / Fluorescence / Coordination polymers / Crystal Engineering / Hydrothermal synthesis



2578 L.-M. Duan, C.-L. Pan, J.-Q. Xu,* X.-B. Cui, F.-T. Xie, T.-G. Wang

Two- and Three-dimensional Frameworks Constructed From Bicapped Keggin Clusters

Keywords: Polyoxometalates / Hydrothermal synthesis / Cluster compounds / Crystal structure

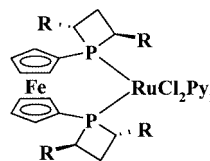


FULL PAPERS

2583 A. Marinetti,* F. Labrue, B. Pons, S. Jus,
L. Ricard, J.-P. Genêt

Rhodium and Ruthenium Complexes of 1,1'-
Bis(phosphetano)ferrocenes: Structural Charac-
terisation and Catalytic Behaviour

Keywords: Asymmetric catalysis / Hydrogenations /
P ligands / Phosphetane / Rhodium /
Ruthenium



2591 Y. V. Mironov, O. A. Efremova,
D. Y. Naumov, W. S. Sheldrick,
V. E. Fedorov*

Synthesis and Structures of Compounds Based
on Chalcocyanide Tetranuclear Rhenium
Clusters: Bonding Cluster Complexes by diene-
Bridged Cu^{II} Units

Keywords: Rhenium / Clusters / Chalcogen / Copper /
Solid-state structures

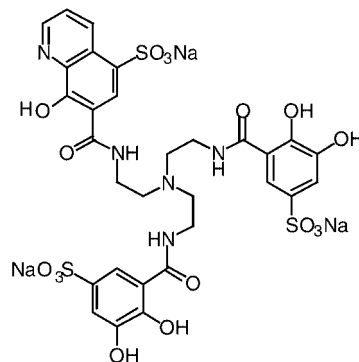


2596 A.-M. Albrecht-Gary,* S. Blanc, F. Biaso,
F. Thomas, P. Baret, G. Gellon, J.-L. Pierre,
G. Serratrice*



Iron(III) Chelation: Tuning of the pH Depen-
dence by Mixed Ligands

Keywords: Tripodal ligands / Iron / Thermodynamics /
UV/Vis spectroscopy / Siderophores



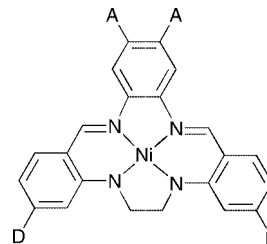
pFe^{III} = 32.3 (pH = 7.4; [L]/[Fe] = 10)

2606 S. Di Bella,* I. Fragalà



Second-Order Nonlinear Optical Properties of
Tetraaza-Coordinated Nickel(II) Complexes

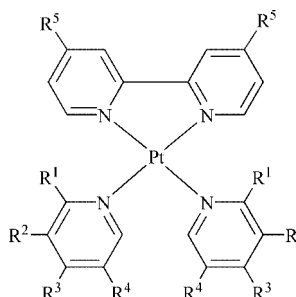
Keywords: Nickel / Nonlinear optics / Semiempirical
calculations



2612 E. Rotondo,* G. Bruschetta, G. Bruno,
A. Rotondo, M. L. Di Pietro, M. Cusumano

NMR Investigation and Dynamic Behaviour of
[2,2'-Bipyridylbis(pyridine)platinum(II)]²⁺ and
Related Cationic Complexes – Crystal Structure
of [Pt(bipy)(py)₂](PF₆)₂

Keywords: Intercalations / N ligands / NMR spec-
troscopy / Platinum

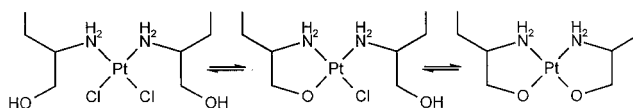


- 1 (R¹ = R² = R³ = R⁴ = R⁵ = H)
- 2 (R¹ = Me, R² = R³ = R⁴ = R⁵ = H)
- 3 (R² = Me, R¹ = R³ = R⁴ = R⁵ = H)
- 4 (R² = CN, R¹ = R³ = R⁴ = R⁵ = H)
- 5 (R² = Ph, R¹ = R³ = R⁴ = R⁵ = H)
- 6 (R³ = Ph, R¹ = R² = R⁴ = R⁵ = H)
- 7 (R² = R⁴ = Me, R¹ = R³ = R⁵ = H)
- 8 (R⁵ = Ph, R¹ = R² = R³ = R⁴ = H)
- 9 (R⁵ = Ph, R³ = CN, R¹ = R² = R⁴ = H)

2619 M. Galanski,* C. Baumgartner, V. Arion,
B. K. Keppler



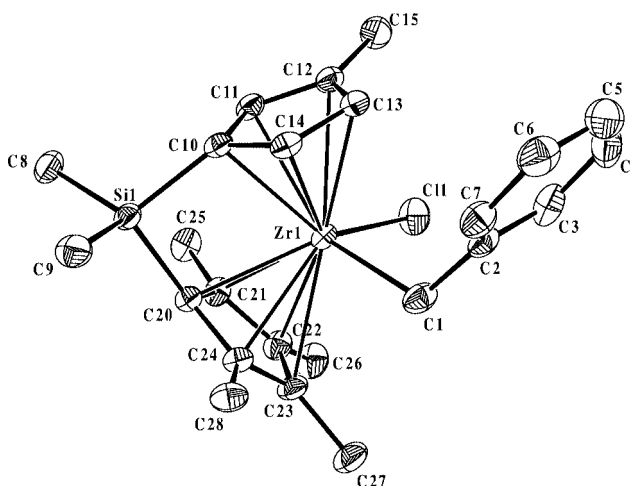
Bis(2-aminobutanol)dichloroplatinum(II) Complexes and Their Singly and Doubly Ring-Closed Butanolato Species – Novel Prodrugs for Platinum-Based Antitumour Chemotherapy?



Keywords: Antitumour agents / Bioinorganic chemistry / N,O ligands / Platinum

2626 A. Antiñolo, R. Fernández-Galán,
B. Gallego, A. Otero,* S. Prashar,
A. M. Rodríguez

Synthesis and Reactivity of Alkylzirconium Complexes Incorporating Asymmetrically Substituted *ansa* Ligands – X-ray Crystal Structure of $[\text{Zr}\{\text{Me}_2\text{Si}(\eta^5\text{-C}_5\text{Me}_4)(\eta^5\text{-C}_5\text{H}_3\text{Me})\}(\text{CH}_2\text{Ph})\text{Cl}]$

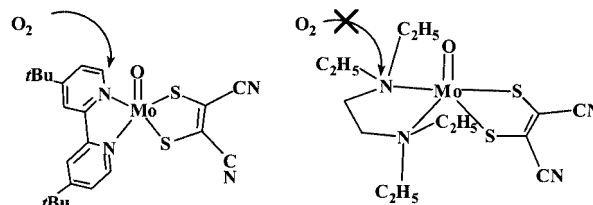


Keywords: Metallocenes / Zirconium / Insertion reactions / Isocyanides

2633 H. Sugimoto,* K. Siren, H. Tsukube,
K. Tanaka



Mono-Dithiolene Molybdenum(IV) Complexes of *cis*-1,2-Dicyano-1,2-ethylenedithiolate (mnt^{2-}): New Models for Molybdenum Enzymes

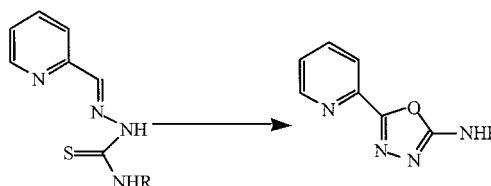


Keywords: Molybdenum / Bioinorganic chemistry / Oxo ligands / S ligands / Oxidation

2639 P. Gómez-Saiz, J. García-Tojal,*
M. A. Maestro, J. Mahía, F. J. Arnaiz,
L. Lezama, T. Rojo



New 1,3,4-Oxadiazolecopper(II) Derivatives Obtained from Thiosemicarbazone Complexes

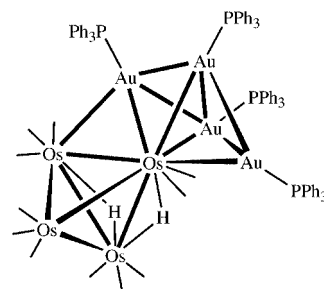


Keywords: Copper / Magnetic properties / Thiosemicarbazone complexes / Oxadiazole complexes / X-ray diffraction

2651 Y. Li, W.-T. Wong*

Syntheses, Reactivity Studies and the Catalytic Properties of a Series of Tetraosmium–Gold Mixed-Metal Clusters

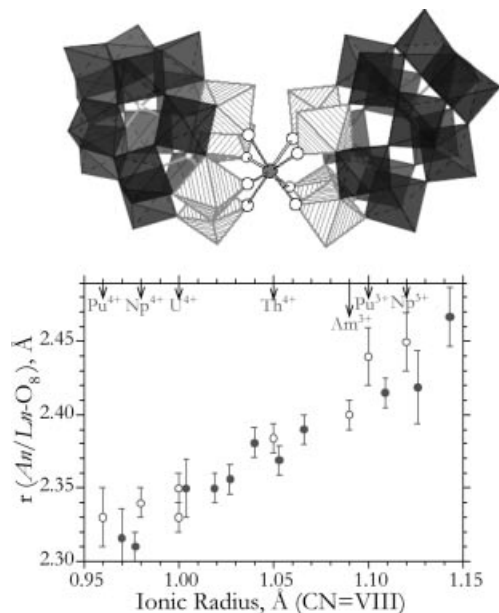
Keywords: Osmium / Gold / Clusters / Electrochemistry / Carbonylations



2663 M.-H. Chiang, C. W. Williams, L. Soderholm,* M. R. Antonio*

Coordination of Actinide Ions in Wells–Dawson Heteropolyoxoanion Complexes

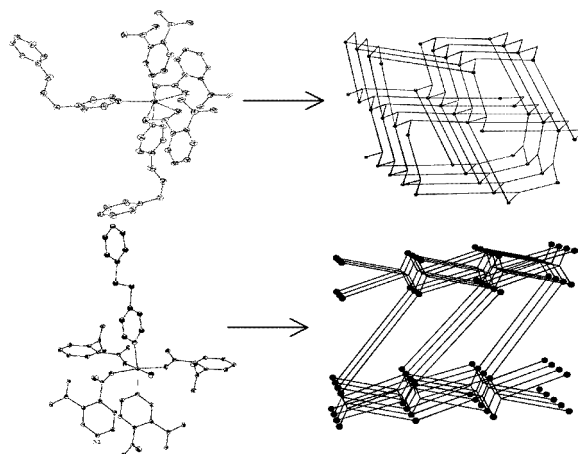
Keywords: Actinides / Electrostatic interactions / Lanthanides / Polyoxometalates / X-ray absorption spectroscopy



2670 Z.-Y. Fu, S.-M. Hu, J.-C. Dai, J.-J. Zhang, X.-T. Wu*

Three Novel Polymeric Frameworks Assembled from Cd^{II} , Co^{II} , and Mn^{II} with the Mixed Organic Ligands 3,4-Pyridinedicarboxylate, 1,3-Bis(4-pyridyl)propane, or 1,2-Bis(4-pyridyl)ethane

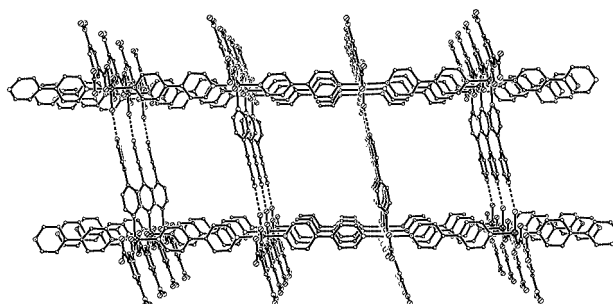
Keywords: Coordination polymer / Crystal engineering / Mixed ligands / Structural topology



2678 J. Tao,* X. Yin, Y.-B. Jiang, L.-F. Yang, R.-B. Huang, L.-S. Zheng*

Syntheses and Crystal Structures of Two Novel Zinc(II) Coordination Polymers

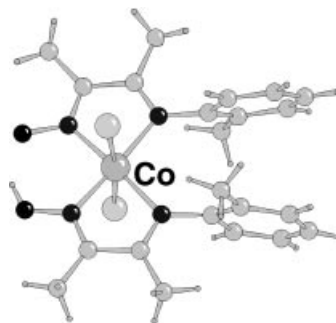
Keywords: Coordination polymers / Zinc / N ligands / Hydrogen bonds / Photoluminescence



2683 E. Zangrando,* M. Trani, E. Stabon,
C. Carfagna, B. Milani, G. Mestroni

Synthesis and Molecular Structures of Nickel(II) and Cobalt(III) Complexes with 2-(Arylimino)-3-(hydroxyimino)butane

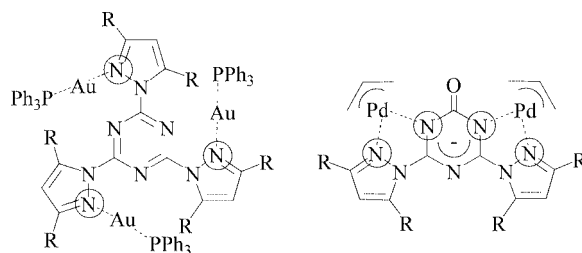
Keywords: Cobalt / Crystal structures / N-donor ligands / Nickel / Stacking interactions



2693 R. M. Claramunt, P. Cornago, M. Cano,*
J. V. Heras, M. L. Gallego, E. Pinilla,
M. R. Torres

New Tris(pyrazolyl)triazine and Pyrazolylpyridine Gold(I) and Palladium(II) Derivatives Based on the 3,5-Bis(4-butoxyphenyl)pyrazole Group – Architectures with Different Types of Bonding Interactions

Keywords: Gold / Hydrogen bonds / Palladium / Supramolecular Chemistry / Triazine

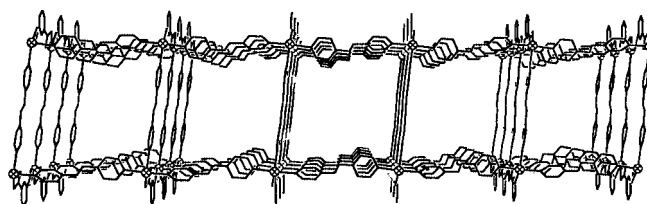


R = C₆H₄OC₄H₉

2705 J. Luo, M. Hong,* R. Wang, R. Cao,
L. Han, Z. Lin

Synthesis, Crystal Structure and Fluorescence of Two Novel Mixed-Ligand Cadmium Coordination Polymers with Different Structural Motifs

Keywords: Cadmium / Coordination polymers / Fluorescence / N ligands



2711 E. López-Torres, M. A. Mendiola,*
C. J. Pastor, J. R. Procopio

Diorganotin(IV) Complexes of a Cyclic Thiosemicarbazone Ligand: Crystal Structures of [SnPh₂-(C₁₅H₁₀N₃S)Cl] and [SnMe₂(C₁₅H₁₀N₃S)₂]

Keywords: Nitrogen heterocycles / S ligands / Tin

