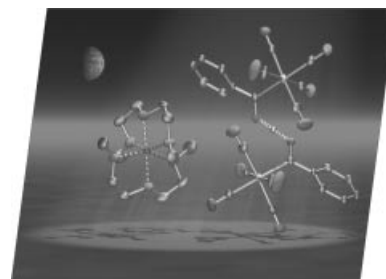


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COVER PICTURE

The cover picture shows the crystal structure of lithium bis[benzoyl-W(CO)₅][μ₂-hydrogen] (orange: tungsten; red: oxygen; blue: lithium; grey: carbon), a new class of hydrogen-bridged organometallic complexes exhibiting strong, charge-assisted hydrogen bonds between anionic metal–acyl moieties in Fischer-type carbene precursors. The novel cation-exchange procedure used here could find application in future organometallic crystal engineering studies involving carbonylmethyl fragments. Details are discussed in the article by H. G. Raubenheimer et al. on p. 3861 ff. *Dedicated to E. O. Fischer on the occasion of his 85th birthday*



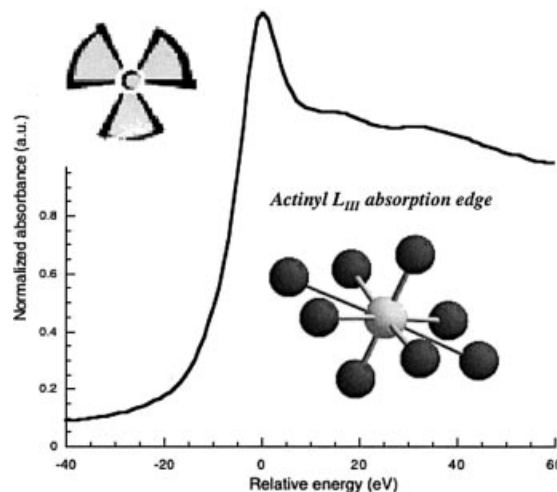
MICROREVIEW

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3843 C. Den Auwer,* E. Simoni, C. Conradson,
 C. Madic

Investigating Actinyl Oxo Cations by X-ray
 Absorption Spectroscopy

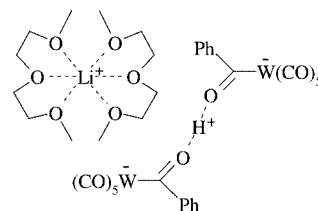
Keywords: Actinides / Oxo ligands / XANES / EXAFS



3861 M. W. Esterhuysen, H. G. Raubenheimer*

Lithium [Bis{benzoyl-W(CO)₅}(μ₂-hydrogen)] – A Charge-Assisted H⁺-Bridged Organometallic Complex Prepared by Selective Li⁺ Ion Replacement

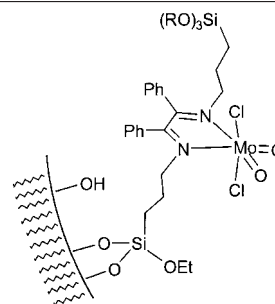
Keywords: Lithium / Tungsten / Hydrogen bonds / Crystal engineering / Carbene complexes / Self-assembly



3870 C. D. Nunes, M. Pillinger, A. A. Valente, J. Rocha, A. D. Lopes, I. S. Gonçalves*

Dioxomolybdenum(vi)-Modified Mesoporous MCM-41 and MCM-48 Materials for the Catalytic Epoxidation of Olefins

Keywords: Molybdenum / N ligands / Mesoporous materials / Supported catalysts / Epoxidations

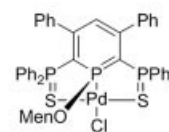
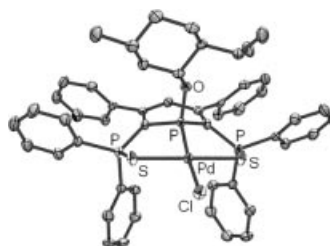


3878 M. Doux, N. Mézailles, L. Ricard, P. Le Floch*



Group 10 Metal Complexes of SPS-Based Pincer Ligands: Syntheses, X-ray Structures, and DFT Calculations

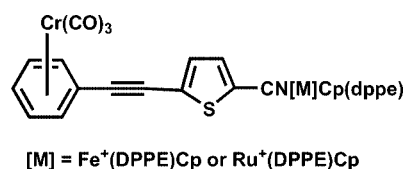
Keywords: Phosphorus / S ligands / Donor-acceptor systems / Density functional calculations / Group 10 elements



3895 M. H. Garcia,* S. Royer, M. P. Robalo,* A. R. Dias, J.-P. Tranchier, R. Chavignon, D. Prim, A. Auffrant, F. Rose-Munch, E. Rose,* J. Vaissermann, A. Persoons, I. Asselberghs

Synthesis, Characterisation of (Arene)tricarboxylchromium Complexes Linked to Cationic Fe and Ru Derivatives and Studies of First Hyperpolarisabilities by Hyper-Rayleigh Scattering

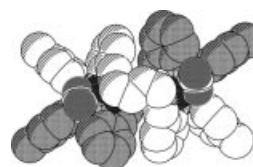
Keywords: Chromium / Iron / Ruthenium / Non-linear optics / Arene ligands / Carbonyl ligands / Hyperpolarisability



3905 J. Sanmartín,* A. M. García-Deibe, M. R. Bermejo, F. Novio, D. Navarro, M. Fondo

Mono- and Dinuclear Complexes of a Flexible Schiff Base Ligand – Crystal Structures of a Bishelicate and Two Acentric Monohelicates

Keywords: Helical structures / N ligands / Schiff bases / Supramolecular chemistry / Transition metals

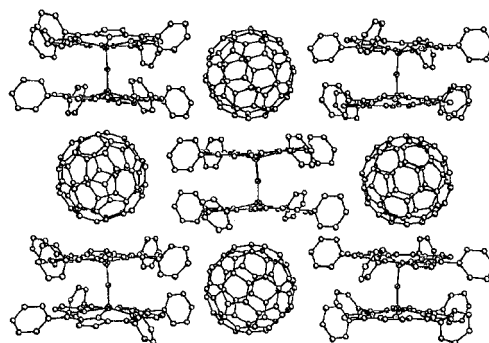


- 3914** A. L. Litvinov, D. V. Konarev,
A. Y. Kovalevsky, A. N. Lapshin,
E. I. Yudanov, N. V. Drichko, P. Coppens,
R. N. Lyubovskaya*



Synthesis, Crystal Structure, and Optical Properties of a New Molecular Complex of C_{60} with a Covalently Linked $(Fe^{III}TPP)_2O$ Dimer

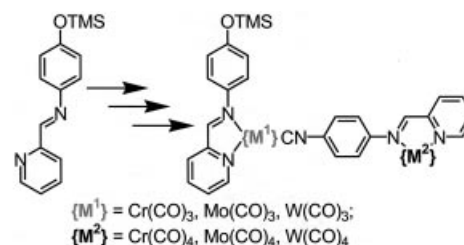
Keywords: Fullerenes / Porphyrinoids / Crystal engineering / Solid-state structures / UV/Vis spectroscopy



- 3918** K. Heinze,* V. Jacob

Stepwise Assembly of Mixed Metal Dinuclear Carbonyl Complexes

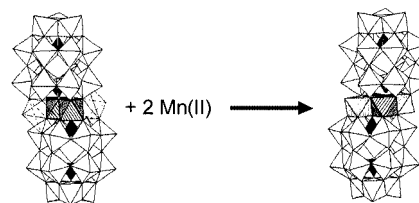
Keywords: Heterometallic complexes / Isocyanide ligands / Bridging ligands / Isomers / Group 6 elements



- 3924** I. M. Mbomekalle, B. Keita, L. Nadjo,*
W. A. Neiwert, L. Zhang, K. I. Hardcastle,
C. L. Hill, T. M. Anderson

Lacunary Wells–Dawson Sandwich Complexes – Synthesis, Characterization, and Stability Studies of Multi-Iron Species

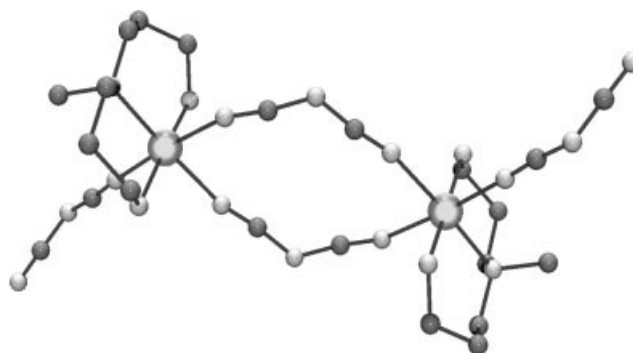
Keywords: Polyoxometalates / Sandwich complexes / Iron / Manganese



- 3929** D. Ghoshal, H. Bialas, A. Escuer,
M. Font-Bardía, T. K. Maji, J. Ribas,
X. Solans, R. Vicente,* E. Zangrando,
N. R. Chaudhuri

Syntheses, Structure and Magnetic Properties of the First $\mu_{1,5}$ -Dicyanamido-Bridged Dinuclear Compounds $[Ni(\mu_{1,5}\text{-dca})(\text{dca})(\text{dpt})]_2$ and $[Ni(\mu_{1,5}\text{-dca})(\text{dca})(\text{medpt})]_2$

Keywords: N ligands / Bridging ligands / Nickel / Magnetic properties



- 3934** M. C. Mimmi, M. Gullotti,*
L. Santagostini, R. Pagliarin, L. De Gioia,
E. Monzani, L. Casella

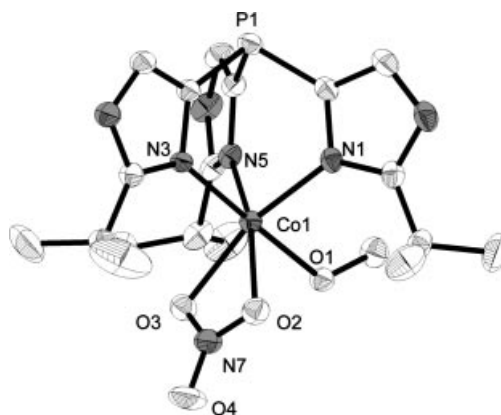
Synthesis and Conformational Studies of a Chiral Octadentate Ligand Derived from (*R*)-1,1'-Binaphthyl-2,2'-diamine and its Dinuclear Zinc(II) and Nickel(II) Complexes

Keywords: N ligands / Zinc / Chirality / Conformational analysis / Nickel



A Novel Water-Soluble Tripodal Imidazolyl Ligand as a Model for the Tris(histidine) Motif of Zinc Enzymes: Nickel, Cobalt and Zinc Complexes and a Comparison with Metal Binding in Carbonic Anhydrase

Keywords: Bioinorganic chemistry / Cobalt / Enzyme models / N ligands / Nickel / Tripodal ligands / Zinc

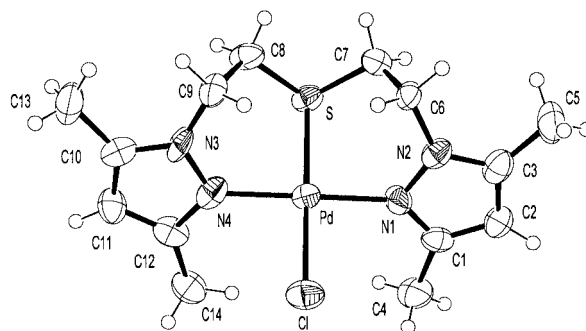


3952 J. García-Antón, J. Pons,* X. Solans, M. Font-Bardia, J. Ros*



Synthesis of New Pd^{II} Complexes Containing a Thioether-Pyrazole Hemilabile Ligand – Structural Analysis by ¹H, ¹³C NMR Spectroscopy and Crystal Structure of [PdCl(bdtp)]BF₄ [bdtp = 1,5-Bis(3,5-dimethyl-1-pyrazolyl)-3-thiapentane]

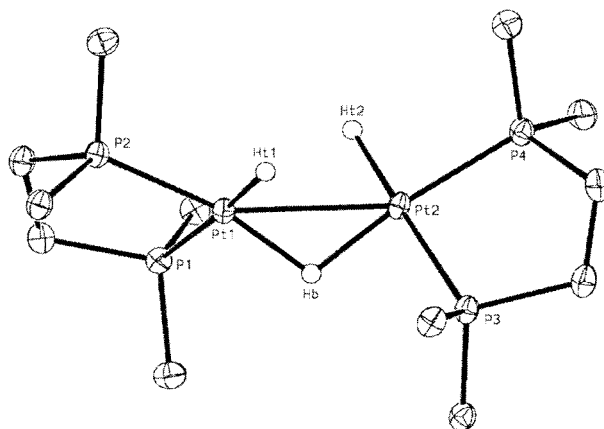
Keywords: Palladium / N,S ligands / Hemilabile ligands



3958 A. L. Bandini,* G. Banditelli, M. Manassero,* A. Albinati,* D. Colognesi, J. Eckert

Binuclear Hydridoplatinum(II): One-Pot Synthesis, INS Spectra and X-ray Crystal Structure of [Pt₂(dcype)₂(H)₃][BPh₄] {dcype = 1,2-Bis-(dicyclohexylphosphanyl)ethane}

Keywords: Hydride ligands / INS spectroscopy / Phosphane ligands / Platinum / X-ray diffraction



3968 J. A. W. Verhagen, M. Lutz, A. L. Spek, E. Bouwman*

Synthesis and Characterisation of New Nickel-Iron Complexes with an S₄ Coordination Environment around the Nickel Centre

Keywords: Nickel / Iron / S ligands / Electronic structure / Electrochemistry

