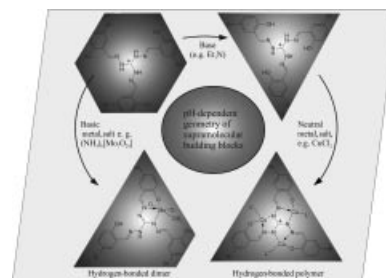


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COVER PICTURE

The cover picture shows the pH dependency of the geometry of the tris(5-bromo-2-hydroxybenzyl)triaminoguanidinium cation $[H_6Br_3L]^+$. In the solid state, a conformation which is less favourable for the coordination of metal centres is predominant. In the presence of a basic metal salt, a partial change in the conformation can be observed, whereas in the presence of base even in the absence of metal ions, a complete conformation change takes place. In this way, the reaction of $[H_6Br_3L]^+$ with metal salts can be easily controlled. The formation of an $[M_3Br_3L]^{(3n-5)+}$ species as a triangular building block for use in supramolecular chemistry is also described in the article by I. M. Müller and D. Möller on p. 257ff.



MICROREVIEW

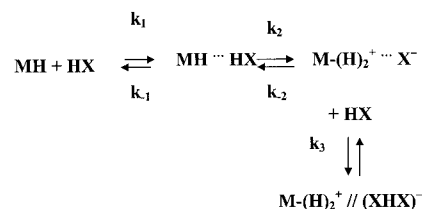
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V. I. Bakhmutov*

Proton Transfer to Hydride Ligands with Formation of Dihydrogen Complexes: A Physicochemical View

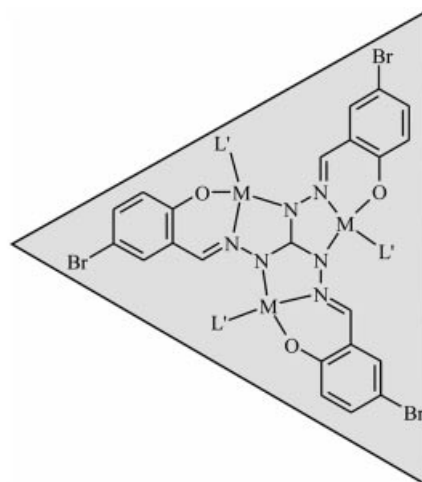
Keywords: Hydrogen bonding / Dihydrogen bonding / Proton transfer / Dihydrogen complexes / Metal hydrides / Kinetics



257 I. M. Müller,* D. Möller

A New Ligand for the Formation of Triangular Building Blocks in Supramolecular Chemistry

Keywords: Tridentate ligands / Copper / Molybdenum

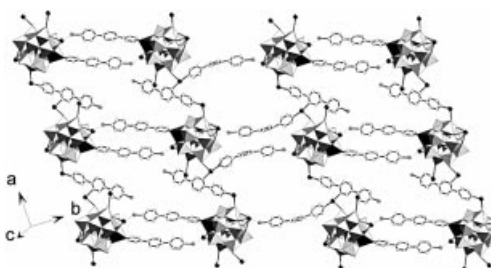


264 Z. Han, Y. Zhao, J. Peng,* H. Ma, Q. Liu, E. Wang, N. Hu, H. Jia



Directed Synthesis of a 1D Double-Chain Polyoxometalate Assembly: {[Ag₂(bpp)₃][Ag(bpp)₂][Ag(bpp)₂PW₁₁Co(bpp)₃O₃₉]·2H₂O}

Keywords: Polyoxometalates / N ligands / Silver / Organic-inorganic hybrids / Supramolecular chemistry

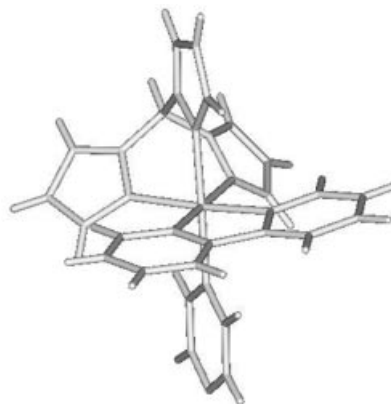


272 N. E. Katz,* I. Romero, A. Llobet, T. Parella, J. Benet-Buchholz



Fine Tuning of MLCT States in New Mononuclear Complexes of Ruthenium(II) Containing Tris(1-pyrazolyl)methane, 2,2'-Bipyridine and Aromatic Nitrogen Heterocycles

Keywords: Charge transfer / Ruthenium / N ligands / Scorpionate ligands

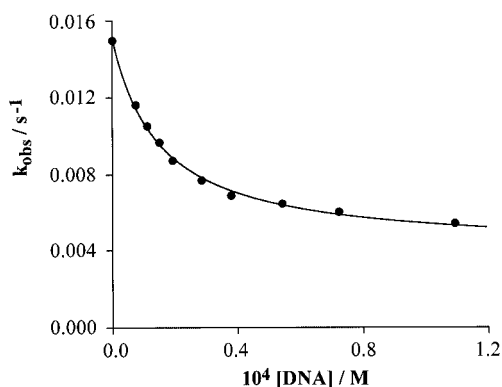


278 M. Cusumano,* M. L. Di Pietro, A. Giannetto, P. A. Vainiglia



The Reaction of (Bipyridyl)palladium(II) Complexes with Thiourea – Influence of DNA and Other Polyanions on the Rate of Reaction

Keywords: Intercalation with DNA / Inhibition of ligand substitution

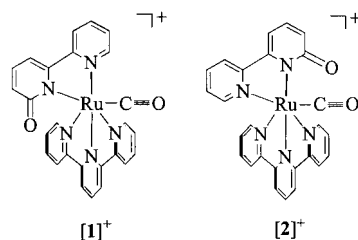


285 T. Tomon, T. Koizumi, K. Tanaka*



Stabilization and Destabilization of the Ru–CO Bond During the 2,2′-Bipyridin-6-onato (bpyO)-Localized Redox Reaction of [Ru(terpy)(bpyO)(CO)](PF₆)

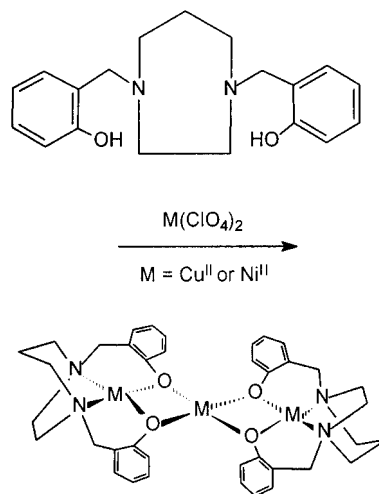
Keywords: Carbonyl complex / Electrochemistry / IR spectroscopy / Ruthenium



294 M. Du,* X.-J. Zhao, J.-H. Guo,
X.-H. Bu,* J. Ribas*

Towards the Design of Linear Homo-Trinuclear Metal Complexes Based on a New Phenol-Functionalised Diazamesocyclic Ligand: Structural Analysis and Magnetism

Keywords: Functionalised diazamesocyclic ligand / Copper(II) and Nickel(II) / Crystal structures / Magnetochemistry / Trinuclear complexes



305 M. D. Godbole, M. Kloskowski, R. Hage,
A. Rompel, A. M. Mills, A. L. Spek,
E. Bouwman*



Highly Efficient Disproportionation of Dihydrogen Peroxide: Synthesis, Structure, and Catalase Activity of Manganese Complexes of the Salicylimidate Ligand

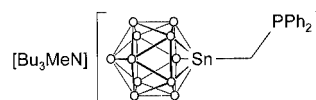
Keywords: Catalase / Michaelis–Menten kinetics / Hydrogen peroxide disproportionation / Enzyme mimics / Manganese / Kinetics



314 B. Ronig, H. Schulze, I. Pantenburg,
L. Wesemann*

Anionic Phosphane – A New Ligand with a Phosphane and a Weakly Coordinating Heteroborate Moiety

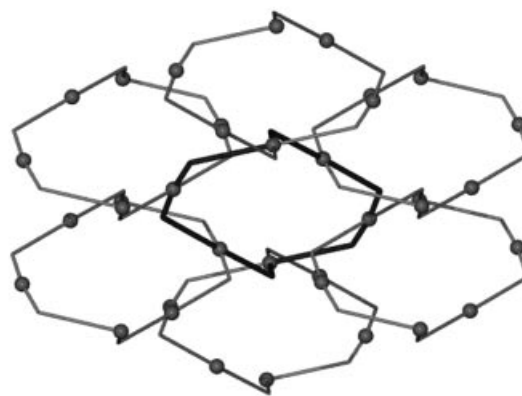
Keywords: Boranes / Cluster compounds / Phosphane ligands / Tin



321 X. Li, R. Cao,* Y. Sun, W. Bi, X. Li,
Y. Wang

Syntheses and Characterizations of Multidimensional Metal-Organic Frameworks Based on Rings and 1D Chains

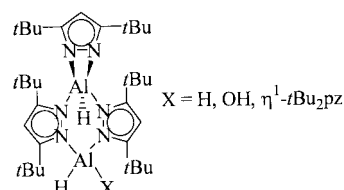
Keywords: Bridging ligand / Polymers / Hydrothermal reaction / Hydrogen bonds



330 Z. Yu, J. E. Knox, A. V. Korolev,
M. J. Heeg, H. B. Schlegel, C. H. Winter*

Synthesis, Characterization, and Hydrolysis Products of $(\eta^2\text{-}t\text{Bu}_2\text{pz})\text{AlH}(\mu\text{:}\eta^1,\eta^1\text{-}t\text{Bu}_2\text{pz})_2\text{AlH}_2$ – Structural Characterization of a Complex Containing η^1 -, η^2 -, and $\mu\text{:}\eta^1,\eta^1$ -Pyrzolato Ligands and a Complex Containing a Terminal Hydroxo Ligand

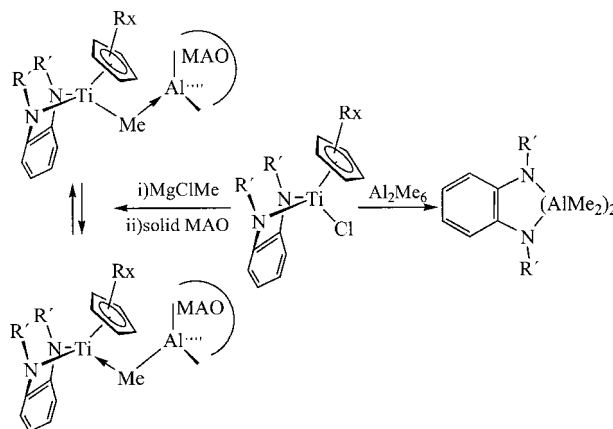
Keywords: Hydrogen bond / N ligands / Aluminum / Pyrazolato ligands / Molecular orbital calculations



338 V. Tabernero, T. Cuenca*

Studies of the Nature of the Catalytic Species in the α -Olefin Polymerisation Processes Generated by the Reaction of Diamido(cyclopentadienyl)-titanium Complexes with Aluminium Reagents as Cocatalysts

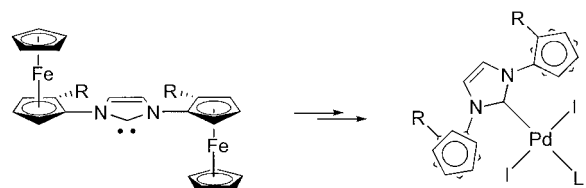
Keywords: Titanium / Diamido ligands / Olefin polymerisation / Trimethylaluminium / Methylaluminoxane



347 A. Bertogg, F. Camponovo, A. Togni*

N-Ferrocenyl-Substituted Planar-Chiral N-Heterocyclic Carbenes and Their Pd^{II} Complexes

Keywords: Carbene ligands / Chirality / Ferrocenes / Nitrogen heterocycles / Palladium

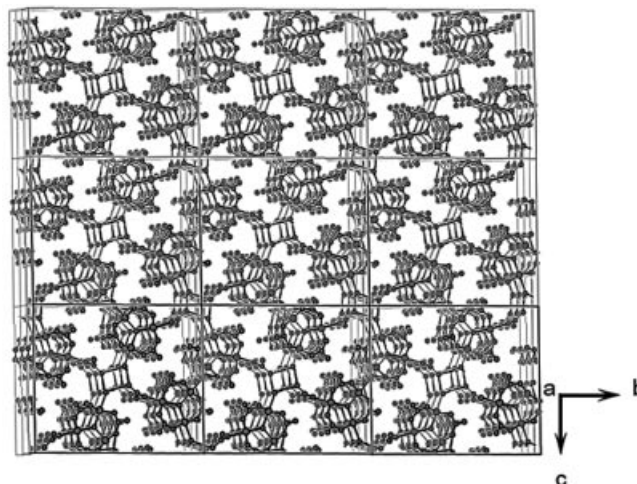


R = H, Me

a: R = Me; L = py
b: R = H; L = py
c: R = Me; L = PPh₃
d: R = H; L = PPh₃

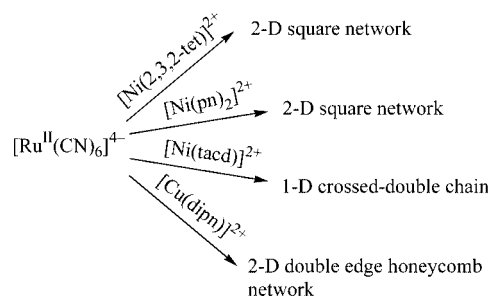
A New Type of Supramolecular Assembly by Hydrogen Bond Templating: Identification of Rare Monodentate Acetate Coordination in $[\text{Fe}_3(\mu_3\text{-O})(\mu_2\text{-CH}_3\text{COO})_6(\text{H}_2\text{O})_2(\text{CH}_3\text{COO})]\cdot\text{T}\cdot\text{ClO}_4$ ($\text{T} = 2,6\text{-Diaminopyridinium Cation, C}_5\text{H}_8\text{N}_3$ and $2\text{-Aminopyridinium Cation, C}_5\text{H}_7\text{N}_2$)

Keywords: Iron trinuclear cluster / Hydrogen bond templating / Monodentate acetate / Supramolecular assembly



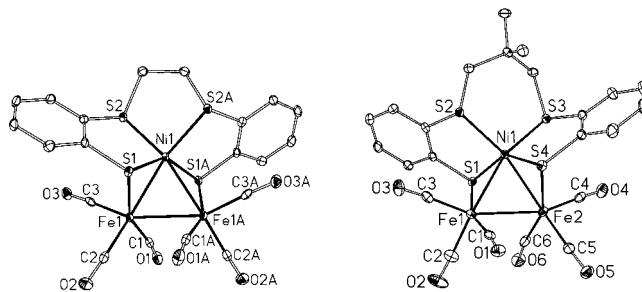
$\text{Ni}^{\text{II}}\text{Ru}^{\text{II}}$ and $\text{Cu}^{\text{II}}\text{Ru}^{\text{II}}$ Coordination Polymers Constructed from $[\text{Ru}(\text{CN})_6]^{4-}$

Keywords: Coordination polymers / Cyanides / Magnetic properties / Ruthenium



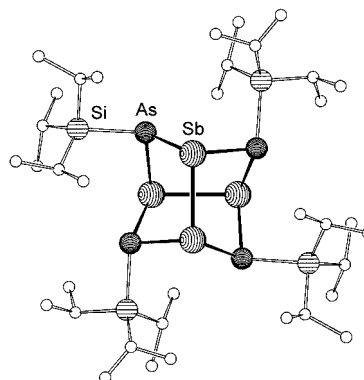
Trinuclear $[\text{NiFe}]$ Clusters as Structural Models for $[\text{NiFe}]$ Hydrogenase Active Sites

Keywords: Nickel / Iron / Cluster compounds / Carbonyl ligands / S ligands



Novel Binary Compounds of Group 15 Elements: Synthesis and Characterisation of $[\text{Sb}_4(\text{PSiMe}_2\text{Thex})_4]$, $[\text{Sb}_4(\text{AsSiPr}_3)_4]$ and $[\text{Sb}_2(\text{PSiPh}_2\text{tBu})_4]$

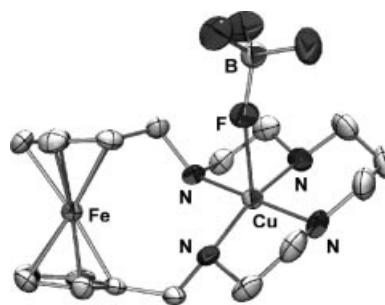
Keywords: Arsenic / Antimony / Cage compounds / Phosphorus



383 P. Comba,* G. Linti, K. Merz, H. Pritzkow, F. Renz

Electronic Interactions in Ferrocene- and Ruthenocene-Functionalized Tetraazamacrocyclic Ligand Complexes of Fe^{II/III}, Co^{II}, Ni^{II}, Cu^{II} and Zn^{II}

Keywords: Macrocyclic ligands / Transition metals / Ferrocene / Ruthenocene

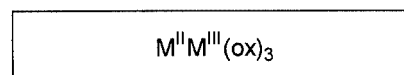
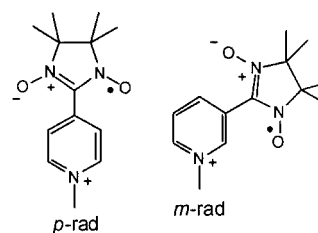
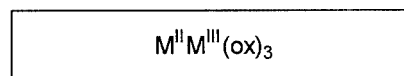


389 A. Alberola, E. Coronado, C. Giménez-Saiz, C. J. Gómez-García, F. M. Romero,* A. Tarazón



Hybrid Magnetic Materials Based on Nitroxide Free Radicals and Extended Oxalato-Bridged Bimetallic Networks

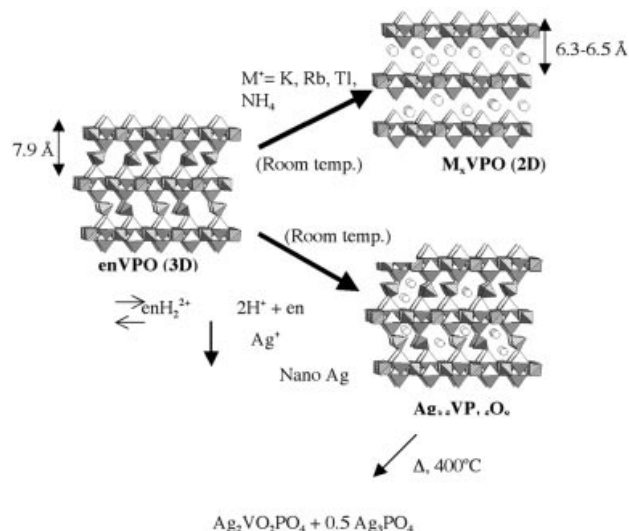
Keywords: Magnetic properties / Heterometallic complexes / Hybrid materials / Radicals / Layered compounds



401 M. Asnani, S. Sharma, S. E. Lofland, K. V. Ramanujachary, P. A. Buffat, A. Ramanan*

Novel Topotactic Conversion of an Organically Templated Vanadyl Phosphate Framework into Layered Structures

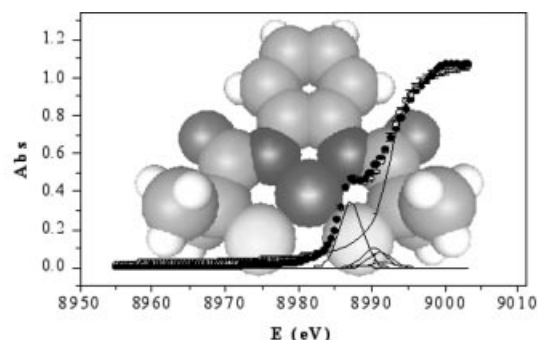
Keywords: Vanadyl phosphate / Topotactic / Intercalation / Ion exchange



410 G. Barone, G. La Manna, D. Duca*

X-ray Absorption Spectra of Cu^{II} and Cu^{III} Complexes of *N,N'*-1,2-Phenylenebis(2-mercapto-2-methylpropionamide)

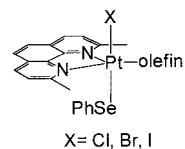
Keywords: Copper / N,S ligands / X-ray absorption spectroscopy / Density functional calculations / Ab initio molecular orbital calculations



416 V. G. Albano,* V. De Felice, M. Monari,
G. Roviello, F. Ruffo*



Oxidative Addition of Phenylselenenyl Halides to Platinum(0) Complexes: Characterisation and Reactivity of the Products [PtX(SePh)(*N,N*-chelate)(olefin)] (X = Cl, Br, I)

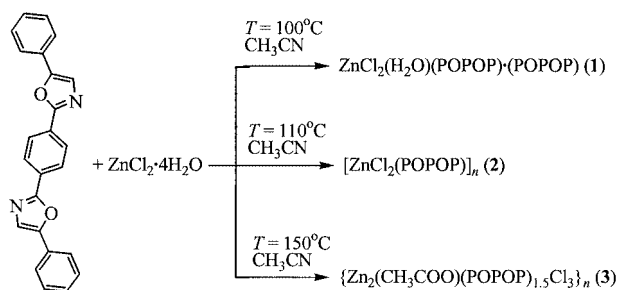


Keywords: Isomers / Oxidative addition / Platinum / Selenium

423 S.-M. Chen, C.-Z. Lu,* Q.-Z. Zhang,
J.-H. Liu, X.-Y. Wu



Temperature-Controlled Solvothermal Syntheses, Structures and Characterizations of a Novel Class of Zn Complexes Constructed from 1,4-Bis[2-(5-phenyloxazolyl)]benzene



Keywords: Complexes / N ligands / Crystal engineering / Coordination modes / Properties