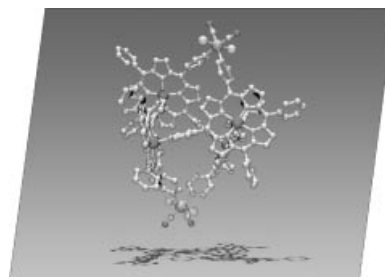


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COVER PICTURE

The cover picture shows the X-ray structure of an unprecedented supramolecular assembly comprising four porphyrins and six metal atoms (two Ru and four Zn); this very stable and symmetrical architecture was obtained by spontaneous self-assembly through four 4'-N(py)-Zn interactions of two equal bis(porphyrin)ruthenium self-complementary building blocks. The design of this and other robust and shape-persistent assemblies, obtained by coordination of *meso*-pyridylporphyrins to ruthenium, palladium and zinc centers, is comprehensively discussed in the microreview by E. Alessio et al. on p. 2371ff. NMR spectroscopy and X-ray crystallography were used jointly for the unambiguous characterization of the new species in solution and solid state, respectively. Very often the adducts of nanoscopic dimensions, in which the number, position, relative distance and orientation of the chromophores is well defined, were obtained through hierarchical supramolecular self-assembly: multi-porphyrin components were used as building blocks for the metal-mediated assembly of more elaborate architectures.



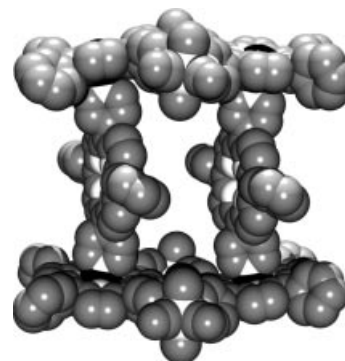
MICROREVIEW

Contents

2371 E. Iengo, E. Zangrando, E. Alessio*

Discrete Supramolecular Assemblies of Porphyrins Mediated by Coordination Compounds

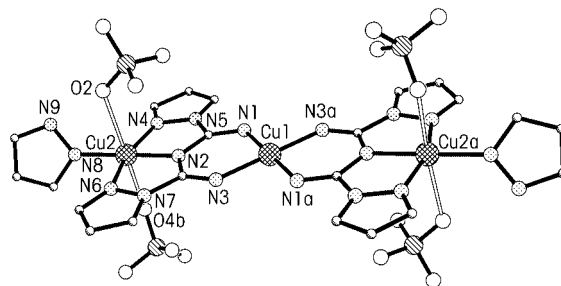
Keywords: Porphyrins / Supramolecular chemistry / Self-assembly / Ruthenium / Building blocks



- 2385** M.-L. Tong,* Y.-M. Wu, Y.-X. Tong,
X.-M. Chen,* H.-C. Chang, S. Kitagawa*



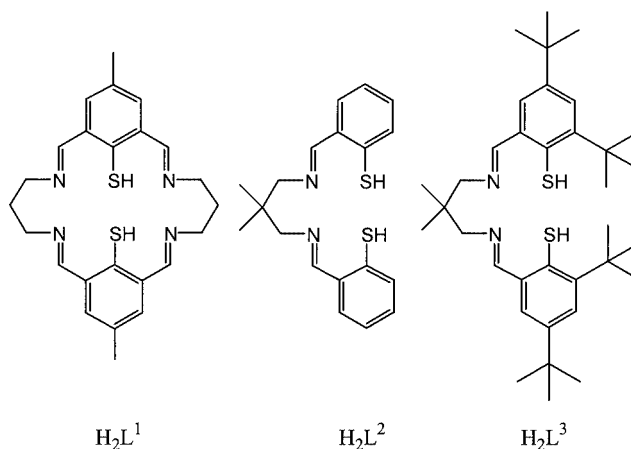
Rational Design of a Ferromagnetic Trinuclear Copper(II) Complex with a Novel in-situ Synthesised Metalloligand



Keywords: Magnetic properties / Copper / N ligands / Nucleophilic addition

- 2389** A. Marin-Becerra, P. A. Stenson,
J. McMaster, A. J. Blake, C. Wilson,
M. Schröder*

Assembly of Dicobalt(III) Complexes Incorporating Di- μ -thiophenolate Moieties

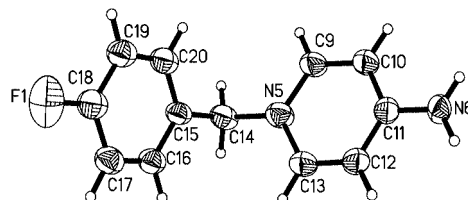
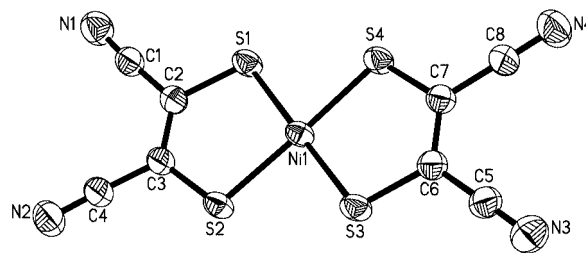


Keywords: Cobalt / Schiff-base ligand / Thiolate

- 2393** J. Xie, X. Ren, S. Gao, W. Zhang, Y. Li,
C. Lu, C. Ni, W. Liu, Q. Meng,* Y. Yao



The First One-Dimensional Molecular Material Featuring Maleonitriledithiolate as a Subunit Exhibiting Metamagnetic-Like Behavior



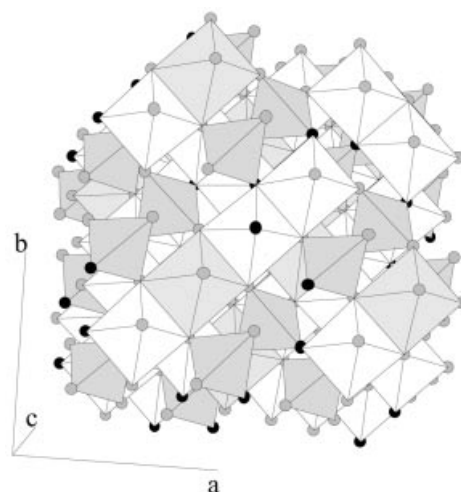
Keywords: Nickel / Maleonitriledithiolate / Crystal structure / Magnetic properties

FULL PAPERS

- 2397** M. A. Arillo, M. L. López, C. Pico,
M. L. Veiga,* J. Campo, J. L. Martínez,
A. Santrich-Badal

Order–Disorder Transitions and Magnetic Behaviour in Lithium Ferrites $\text{Li}_{0.5+0.5x}\text{Fe}_{2.5-1.5x}\text{Ti}_x\text{O}_4$ ($x = 1.28$ and 1.50)

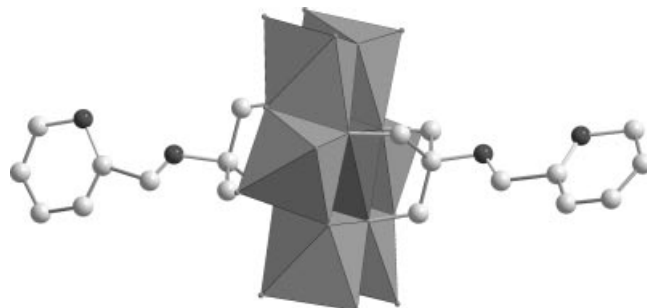
Keywords: Lithium ferrites / Order–disorder phenomena / Spinel / Spin-glass behaviour



- 2406** P. R. Marcoux, B. Hasenknopf,*
J. Vaissermann, P. Gouzerh

Developing Remote Metal Binding Sites in Heteropolymolybdates

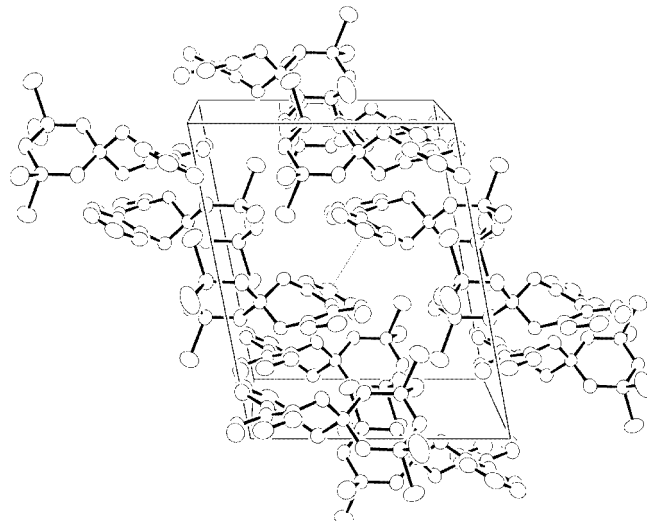
Keywords: Polyoxometalates / Molybdenum / N ligands / Coordination chemistry



- 2413** G. A. Carriedo, F. J. Garcia-Alonso,
J. L. García-Alvarez, G. C. Pappalardo,*
F. Punzo, P. Rossi

Stereoisomer Discrimination Through π -Stacking Interactions in Spirocyclic Phosphazenes Bearing 2,2'-Dioxybiphenyl Units

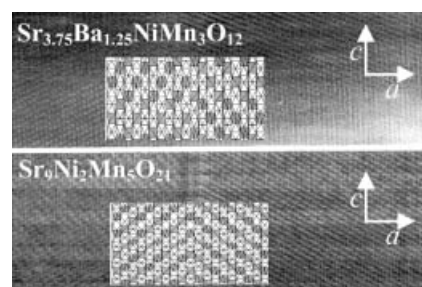
Keywords: Phosphazenes / π interactions / Solid-state structure / Spiro compounds / Stereoisomer discrimination



- 2419** M. Hernando, K. Boulahya, M. Parras,
J. M. González-Calbet,* U. Amador

Synthesis and Microstructural Characterisation of Two New One-Dimensional Members of the $(\text{A}_3\text{NiMnO}_6)_\alpha(\text{A}_3\text{Mn}_3\text{O}_9)_\beta$ Homologous Series ($\text{A} = \text{Ba}, \text{Sr}$)

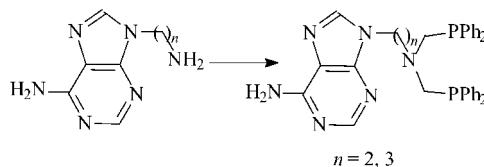
Keywords: Electron diffraction / High-resolution electron microscopy / One-dimensional oxides / Twinned microstructure



- 2426** Q. Zhang, G. Hua, P. Bhattacharyya,
A. M. Z. Slawin, J. D. Woollins*

Syntheses and Coordination Chemistry of
Aminomethylphosphine Derivatives of Adenine

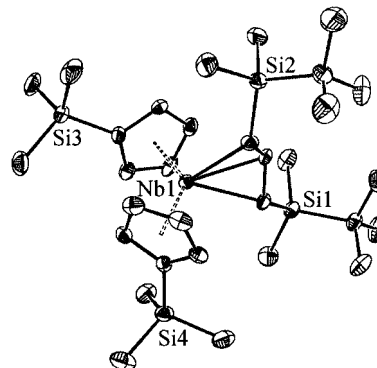
Keywords: Adenine / P ligands / Chelate complexes /
Heterometallic complexes



- 2438** I. del Hierro, R. Fernández-Galán,
S. Prashar, A. Antiñolo, M. Fajardo,
A. M. Rodríguez, A. Otero*

The Reactivity of Allyl and Olefin-Hydride
Niobocene Derivatives Towards Isocyanides.
X-ray Crystal Structure of $[\text{Nb}(\eta^5\text{-C}_5\text{H}_4\text{-SiMe}_3)_2\{\eta^3\text{-CH(R)CHCH(R)}\}]$ ($\text{R} = \text{SiMe}_2\text{tBu}$)

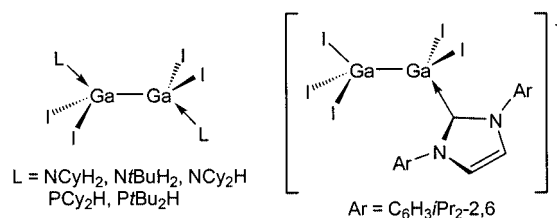
Keywords: Niobium / Allyl ligands / Hydride ligands /
Insertion reactions / Isocyanide



- 2446** R. J. Baker, H. Bettentrup, C. Jones*

The Reactivity of Primary and Secondary
Amines, Secondary Phosphanes and N-Hetero-
cyclic Carbenes towards Group-13 Metal(I)
Halides

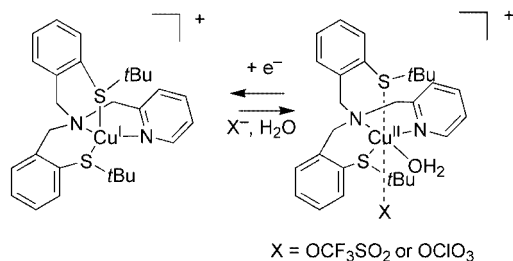
Keywords: Group-13 elements / Carbene ligands /
Phosphanes / Sub-oxidation state



- 2452** S. Torelli, C. Belle,* C. Philouze,
J.-L. Pierre, W. Rammal, E. Saint-Aman

A New Thioether-Based $(\text{N}_2\text{S}_2)\text{Copper(II/I)}$
Complex Exhibiting a High Redox Potential

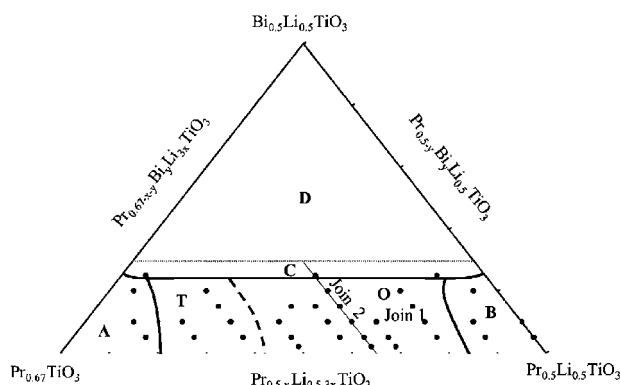
Keywords: S ligands / N ligands / Tripodal ligands /
Copper / Redox chemistry



- 2458** M.-L. Martínez-Sarrión,* L. Mestres,
M. Herráiz, O. Maqueda, N. Fernández,
M.-F. García

Synthesis and Electrical Properties of the
 $\text{Pr}_{0.5+x}\text{Bi}_y\text{Li}_{0.5-3x}\text{TiO}_3$ System

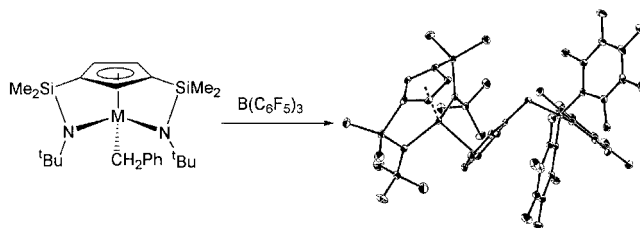
Keywords: Phase diagrams / Perovskite phases /
Conducting materials



2463

J. Cano, P. Royo,* H. Jacobsen, O. Blacque,
H. Berke, E. Herdtweck

Neutral and Cationic [Bis(η^1 -amidosilyl)- η^5 -cyclopentadienyl]titanium and -zirconium Complexes: Synthesis, X-ray Molecular Structures and DFT Calculations

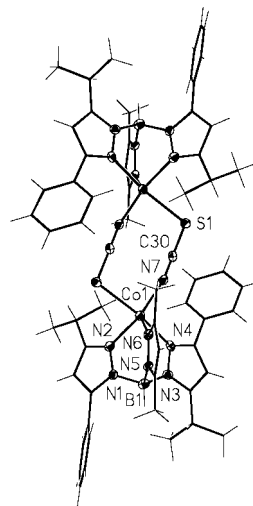


Keywords: Cations / Cyclopentadienyl ligands / Density functional calculations / Nitrogen ligands / Titanium / Zirconium

2475

T. Ruman, Z. Ciunik, S. Wołowicz*

Synthesis, X-ray Crystallographic and ^1H NMR Spectroscopic Structural Studies on Cobalt(II) Complexes of Homoscorpionate, Heteroscorpionates and Chiral Tris(pyrazolyl)borates Obtained from 5(3)-Isopropyl-3(5)-phenylpyrazole and 3,5-Dimethylpyrazole

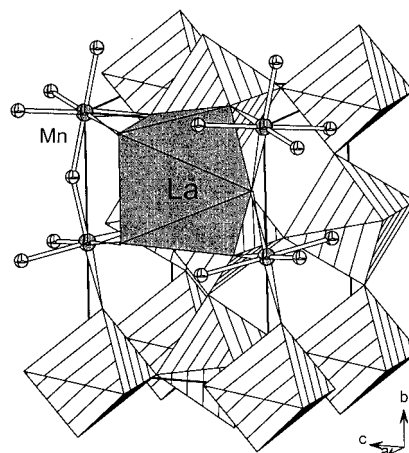


Keywords: Boron / Chirality / Cobalt / N ligands / NMR spectroscopy

2486

M. Yahia, H. Batis*

Properties of Undoped and Ca-Doped LaMnO_3 – Non-Stoichiometry and Defect Structure

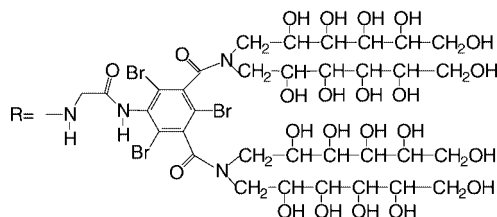
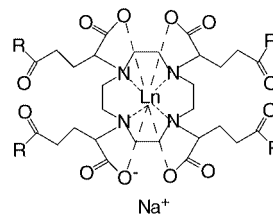


Keywords: Non-stoichiometry / Perovskites / Preparation

2495 L. Vander Elst, M. Port, I. Raynal,
C. Simonot, R. N. Muller*

Physicochemical Characterization of P760, a
New Macromolecular Contrast Agent with
High Relaxivity

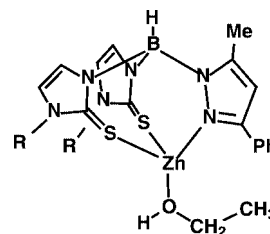
Keywords: Angiography / MRI contrast agents /
NMRD / P760



2502 M. Shu, R. Walz, B. Wu, J. Seebacher,
H. Vahrenkamp*

New Bis(mercaptoimidazolyl)(pyrazolyl)borate
Ligands and Their Zinc Complex Chemistry

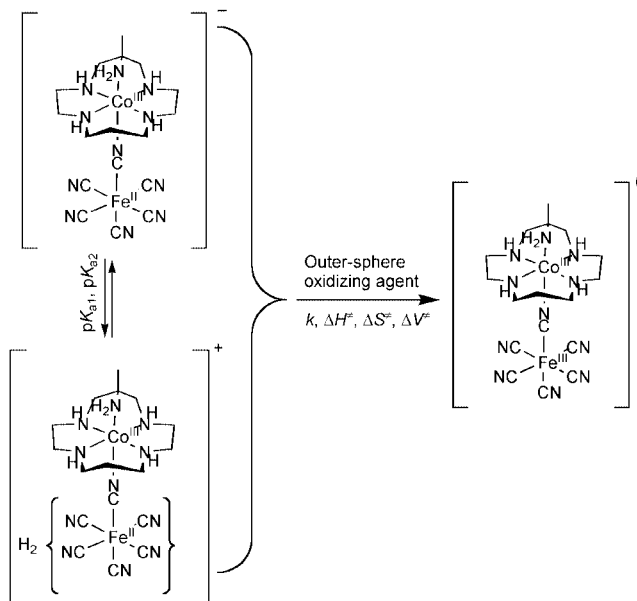
Keywords: Tripod ligands / Zinc / Bioinorganic chemistry



2512 P. V. Bernhardt, F. Bozoglian,
B. P. Macpherson, M. Martínez,*
G. González, B. Sienra

Discrete Cyanide-Bridged Mixed-Valence Co/Fe
Complexes: Outer-Sphere Redox Behaviour

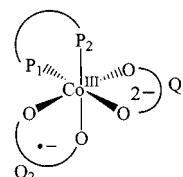
Keywords: Cobalt / Iron / Mixed-valence complexes /
Redox processes



2519 M. P. Bubnov,* I. A. Teplova,
V. K. Cherkasov, G. A. Abakumov

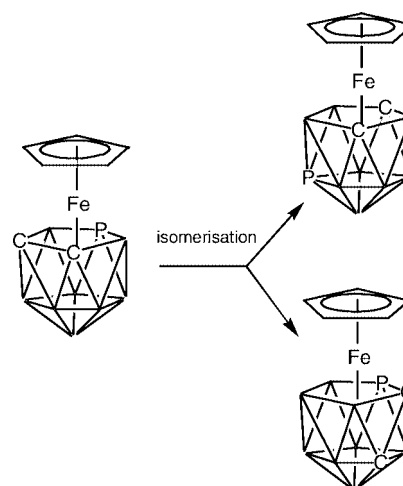
EPR Study of *o*-Semiquinone-Catecholate
Cobalt Complexes with Bis(diphenylphosphanyl)-
ethane

Keywords: Chelates / Cobalt / EPR spectroscopy /
Quinones / Tautomerism



2524 B. Štíbr,* J. Holub, M. Bakardjiev, I. Pavlík,
O. L. Tok, B. Wrackmeyer

Phosphadecarborane Analogues of Ferrocene:
New Isomers of [*closo*-(η^5 -C₅H₅)FePC₂B₈H₁₀]

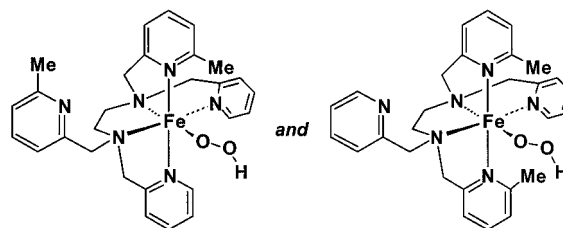


Keywords: Sandwich complexes / Boranes / Isomerisation / Carboranes / NMR spectroscopy

2529 V. Balland, F. Banse,*
E. Anxolabéhère-Mallart,* M. Nierlich,
J.-J. Girerd*



Iron Complexes Containing the Ligand *N,N'*-Bis(6-methyl-2-pyridylmethyl)-*N,N'*-bis(2-pyridylmethyl)ethane-1,2-diamine: Structural, Spectroscopic, and Electrochemical Studies, Reactivity with Hydrogen Peroxide and the Formation of a Low-Spin Fe–OOH Complex



Keywords: Iron / N ligands / Peroxo ligands / Bioinorganic chemistry