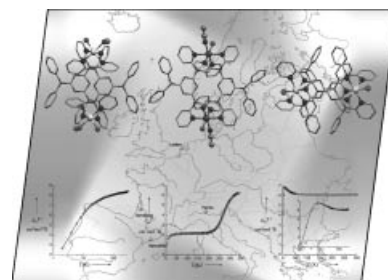


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COVER PICTURE

The cover picture shows the crystal structures of three related iron(II) complexes obtained with a triazine-based polypyridyl ligand, where minor structural changes result in very disparate magnetic properties, ranging from anti-ferromagnetic exchange through spin crossover to ferromagnetic coupling. These are clearly illustrated by the characteristic plots of the corresponding magnetic behaviours. The background map of Europe symbolizes the European collaboration responsible for the studies reported by P. Gamez, O. Roubeau, et al. on p. 1353 ff.



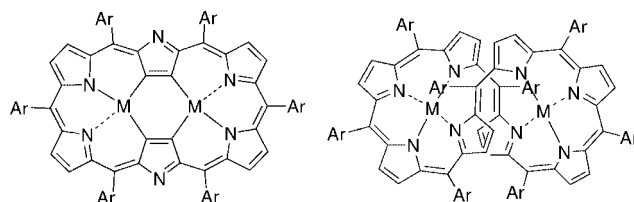
MICROREVIEW

Contents

1319 S. Shimizu, A. Osuka*

Metalation Chemistry of *meso*-Aryl-Substituted
 Expanded Porphyrins

Keywords: Aromaticity / Conjugation / Macrocyclic
 ligands / Porphyrinoids



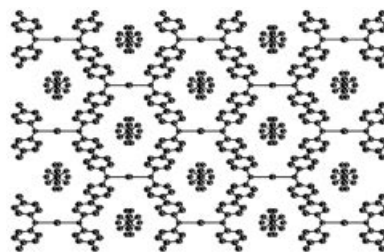
SHORT COMMUNICATIONS

- 1337** C.-Z. Xie, Z.-F. Zhang, B.-F. Zhang,
X.-Q. Wang,* R.-J. Wang, G.-Q. Shen,
D.-Z. Shen, B. Ding



A Novel 3D Cu^I Metal–Organic Framework with Middle-Size Channels Despite the Sixfold ThSi₂ Interpenetrating Topological Structure

Keywords: Metal–organic framework / Interpenetration / 1D channels / Topological structure / Copper / X-ray diffraction

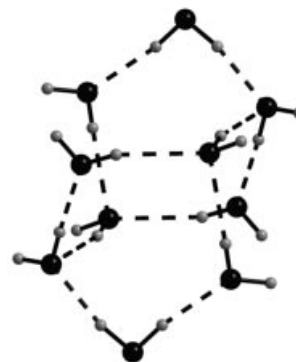


- 1341** S. K. Ghosh, P. K. Bharadwaj*



Decameric Water Clusters Shaped as Two Parallel Cyclic Pentamers with Staggered Conformation Stabilize Supramolecularly Bonded Infinite Chains of H₂PO₄[−] Ions

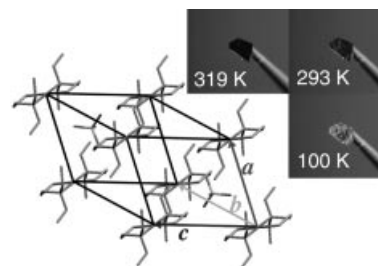
Keywords: Dibasic phosphate chain / Cryptands / Supramolecular chemistry / X-ray diffraction / Water cluster



- 1345** P. Naumov,* K. Sakurai, T. Asaka,
A. A. Belik, S. Adachi, J. Takahashi,
S. Koshihara

Photoinduced Phase Transition of the Coordinationally Unsaturated d⁹ Metal Centers of Bis-(*N,N*-diethylethylenediamine)copper(II) Perchlorate within the Thermal Hysteresis of the Spin-Exchange Interaction

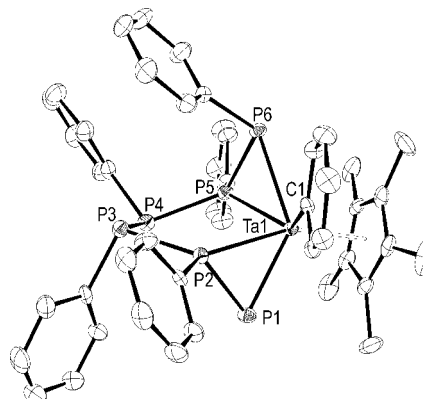
Keywords: Photoinduced phase transitions / Jahn–Teller effect / Photodiffraction / Photochromism / Thermochromism



- 1348** R. Wolf, E. Hey-Hawkins*

Synthesis and Molecular Structure of [Cp*Ta(Ph)(P₆Ph₅)]: A Terminal Phosphinidene Complex of the (P₆Ph₅)^{3−} Ligand (Cp* = C₅Me₅)

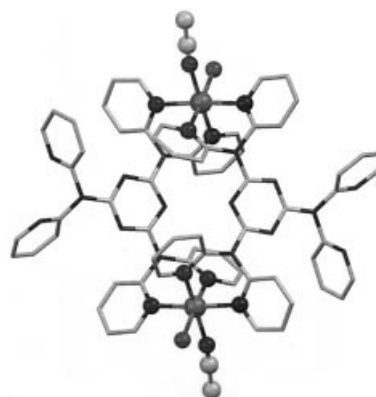
Keywords: Tantalum / Phosphorus / P ligands / Oligophosphanes / Phosphinidene complexes



- 1353** M. Quesada, P. de Hoog, P. Gamez,*
O. Roubeau,* G. Aromí, B. Donnadieu,
C. Massera, M. Lutz, A. L. Spek, J. Reedijk

Coordination Dependence of Magnetic Properties within a Family of Related $[\text{Fe}^{\text{II}}_2]$ Complexes of a Triazine-Based Ligand

Keywords: Iron(II) complexes / Magnetic properties / Spin crossover / 1,3,5-Triazine / Polydentate ligands

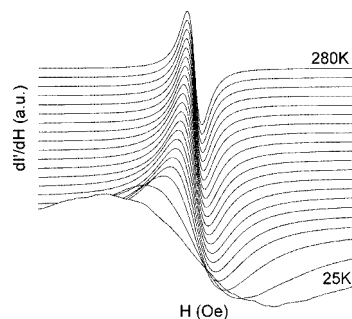


- 1362** L. Ortega-San Martín, J. P. Chapman,
L. Lezama, J. Sánchez Marcos,
J. Rodríguez-Fernández, M. I. Arriortua,
T. Rojo*



Magnetic Properties of the Ordered Double Perovskite $\text{Sr}_2\text{MnTeO}_6$

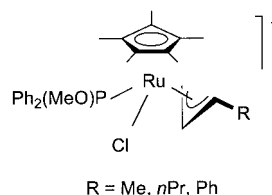
Keywords: Perovskite phases / Magnetic structure / EPR spectroscopy / Neutron diffraction



- 1371** B. Demerseman,* J.-L. Renaud, L. Toupet,
C. Hubert, C. Bruneau

Synthesis and Reactivity of $[\text{Ru}(\text{Cp}^*)(\text{L})(\text{MeCN})_2][\text{PF}_6]$ ($\text{L} = \text{Ph}_2\text{POMe}$ or $\text{Ph}_2\text{P-}o\text{-tolyl}$) and $\{\text{Ru}(\text{Cp}^*)[\text{Ph}_2\text{PCH}_2\text{C}(\text{tBu})=\text{O}](\text{MeCN})\}-[\text{PF}_6]$ Complexes, Their Involvement as Catalyst Precursors for Regioselective Allylic Substitution Reactions and Related $[\text{Ru}(\text{Cp}^*)\text{Cl}(\text{Ph}_2\text{POMe})(\text{RCHCHCH}_2)][\text{PF}_6]$ $\eta^3\text{-Allyl}$ Ruthenium(IV) Intermediates

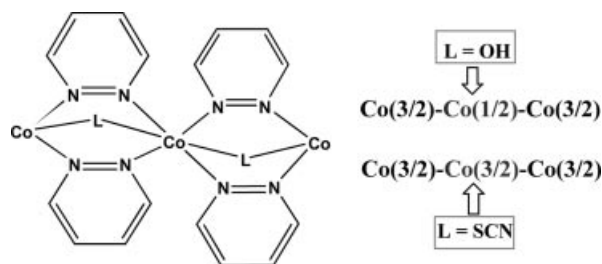
Keywords: Allyl ligands / Allylation / Homogeneous catalysis / Regioselectivity / Ruthenium



- 1381** T. Yi,* C. Ho-Chol, S. Gao, S. Kitagawa*

Tuning of the Spin States in Trinuclear Cobalt Compounds of Pyridazine by the Second Simple Bridging Ligand

Keywords: Pyridazine / Ligand tuning / Cobalt / Irregular spin states structure / Magnetic properties

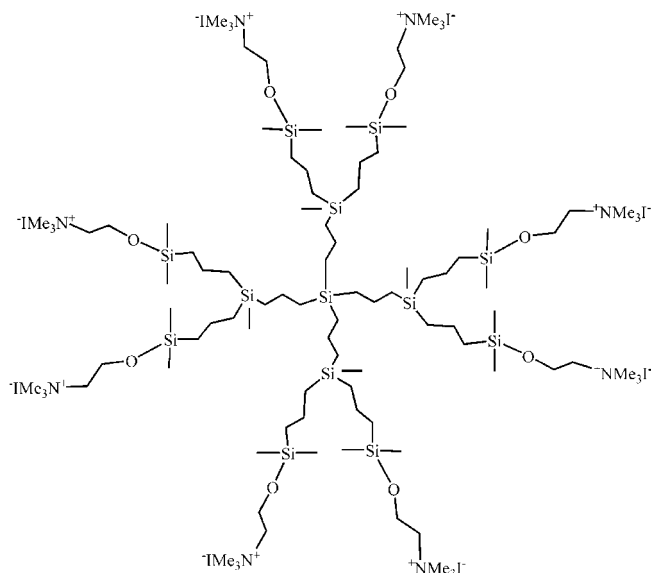


- 1388** P. Ortega, J. F. Bermejo, L. Chonco,
E. de Jesus, F. J. de la Mata,* G. Fernández,
J. C. Flores, R. Gómez,* M. J. Serramía,
M. A. Muñoz-Fernandez*



Novel Water-Soluble Carbosilane Dendrimers:
Synthesis and Biocompatibility

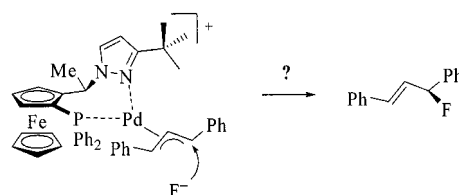
Keywords: Bioinorganic chemistry / Dendrimers /
Silicon / Drug delivery / Toxicity



- 1397** L. Hintermann,* F. Läng, P. Maire,
A. Togni

Interactions of Cationic Palladium(II)- and
Platinum(II)- η^3 -Allyl Complexes with Fluoride:
Is Asymmetric Allylic Fluorination a Viable
Reaction?

Keywords: Palladium / Platinum / Allyl ligands /
Fluorination / Naked fluoride

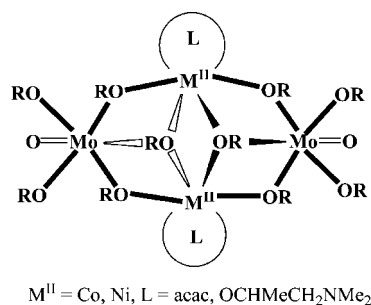


- 1413** P. Werndrup, G. A. Seisenbaeva, G. Westin,
I. Persson, V. G. Kessler*



A Single-Source-Precursor Approach to Late
Transition Metal Molybdate Materials: The
Structural Role of Chelating Ligands in the
Formation of Heterometallic Heteroleptic Alk-
oxide Complexes

Keywords: Cobalt molybdate / EXAFS / Hetero-
geneous catalysis / Materials / Nickel
molybdate / Sol-gel processes

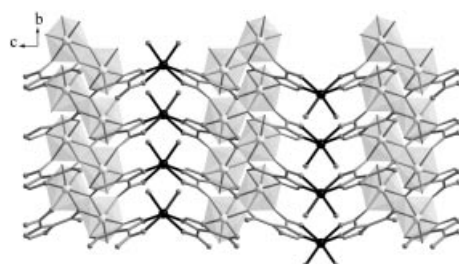


- 1423** M.-B. Zhang, Y.-M. Chen, S.-T. Zheng,
G.-Y. Yang*



A 3D Manganese Coordination Polymer
[$\text{Mn}_3(\text{IMDC})_2(\text{H}_2\text{O})_4$] Constructed from [Mn_2 -
(IMDC) $_2(\text{H}_2\text{O})_2$] Layers and [$\text{Mn}(\text{H}_2\text{O})_2$] Pillars
(IMDC = 4,5-imidazoledicarboxylate)

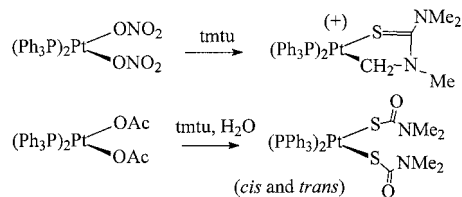
Keywords: Carboxylate ligands / Coordination poly-
mers / Hydrothermal synthesis / Mangan-
ese



**1429 M. Alesi, S. Fantasia, M. Manassero,*
A. Pasini***

The Role of Anions in Addressing the Outcome of the Reaction of Tetramethylthiourea with *cis*-Pt^{II}(phos)₂ Moieties (phos = PPh₃ or ¹/₂dppe), Cyclometallation vs. Hydrolysis to Monothiocarbamato, and the Crystal Structure of *trans*-Bis(*N*-dimethylmonothiocarbamato)bis(triphenylphosphane)platinum(II)

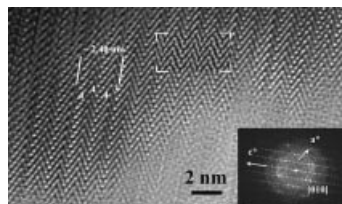
Keywords: Carboxylate ligands / Phosphane ligands / Ligands reactivity



**1436 E. Urones-Garrote,* A. Gómez-Herrero,
Á. R. Landa-Cánovas, L. C. Otero-Díaz**

An Electron Microscopy Study of New Chemically Twinned Phases in the MgS-Yb₂S₃ System

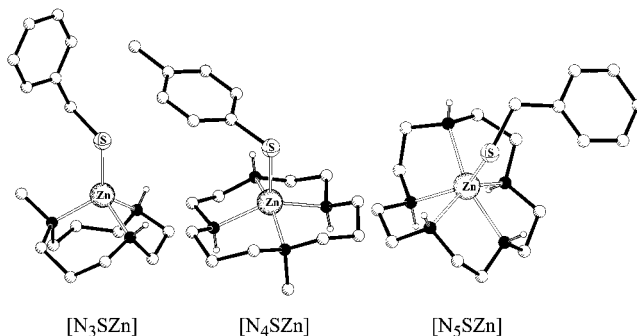
Keywords: Chemical twinning / Electron microscopy / Rare earths / Sulfides / Solid-state structures



1444 J. Notni, H. Görls, E. Anders*

Zinc Thiolate Complexes [ZnL_n(SR)]⁺ with Azamacrocyclic Ligands: Synthesis and Structural Properties

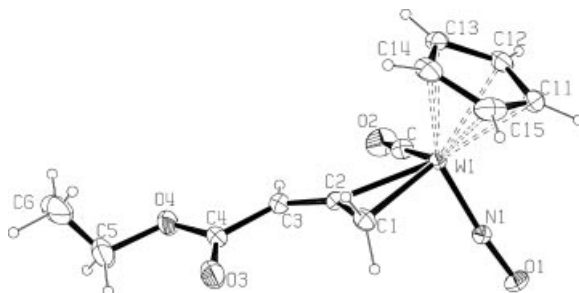
Keywords: Enzyme models / Macrocyclic ligands / S ligands / Solid-state structures / Zinc



1456 J. Ipaktschi,* P. Rooshenas, A. Dülmer

Synthesis of η²-Allene Complexes by the Reaction of a η¹-Vinylidene Tungsten Complex with Diazoalkanes

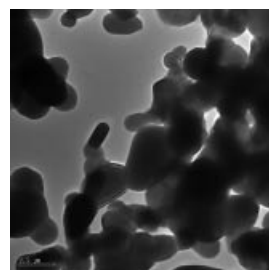
Keywords: Tungsten / Vinylidene ligands / Allene ligands / Diazoalkanes



**1460 I. Mayer,* F. J. G. Cuisinier, I. Popov,
Y. Schleich, S. Gdalya, O. Burghaus,
D. Reinen**

Phase Relations Between β-Tricalcium Phosphate and Hydroxyapatite with Manganese(II): Structural and Spectroscopic Properties

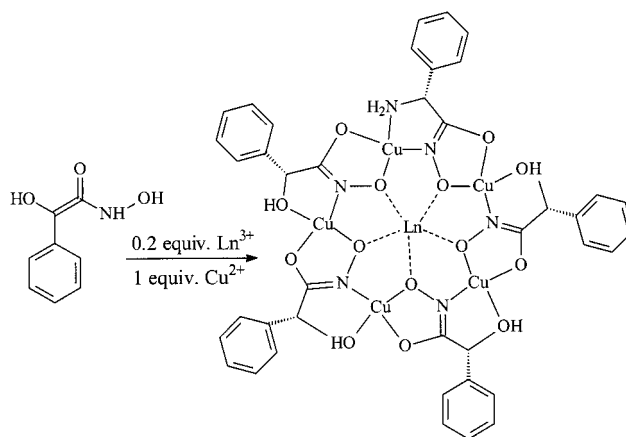
Keywords: Manganese / β-Tricalcium phosphate / EPR spectroscopy



- 1466** T. N. Parac-Vogt,* A. Pacco, P. Nockemann,
Y.-F. Yuan, C. Görrler-Walrand,
K. Binnemans

Mandelohydroxamic Acid as Ligand for
Copper(II) 15-Metallacrown-5 Lanthanide(III)
and Copper(II) 15-Metallacrown-5 Uranyl Com-
plexes

Keywords: Lanthanides / Hydroxamic acid / Metalla-
crowns / Rare earths / Uranium

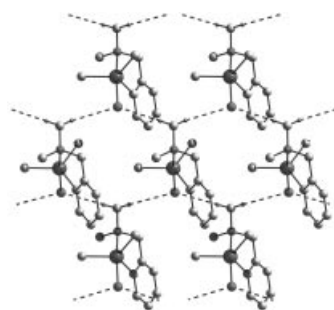


- 1475** R. A. Varga, A. Rotar, M. Schürmann,
K. Jurkschat, C. Silvestru*



Hypercoordinated Organotin(IV) Halides Con-
taining 2-(Me₂NCH₂)C₆H₄ Groups: {2-
(Me₂NCH₂)C₆H₄}₂SnX₂ (X = F, Cl, Br, I) and
{2-(Me₂NCH₂)C₆H₄}₂R₂SnX (R = Me, Ph; X =
F, Cl, Br, I) and Their Solution Behaviour and
Solid-State, Hydrogen-Bonding-Based Supra-
molecular Architecture

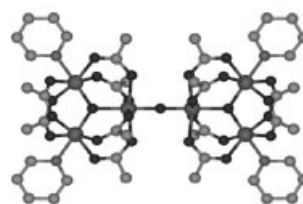
Keywords: Halides / Hydrogen bonding / Hypercoordi-
nation / Supramolecular chemistry / Tin



- 1487** G. S. Nunes, A. D. P. Alexiou, K. Araki,
A. L. B. Formiga, R. C. Rocha,*
H. E. Toma*

Proton-Coupled Redox Chemistry, Oxidative
Reactivity, and Electronic Characterization
of Aqua-, Hydroxo-, and Oxo-Triruthenium
Clusters

Keywords: Ruthenium–acetate clusters / Mixed-
valence complexes / Oxygen-transfer cataly-
sis / Proton-coupled electron transfer /
Pourbaix diagram / Electrocatalysis /
Spectroelectrochemistry



- 1496** B. Gaertner, A. Köhn, H.-J. Himmel*

The First End-On Bonded Superoxo Complexes
of Ga and In: The Oxygen-Rich Compounds
GaO₄ and InO₄

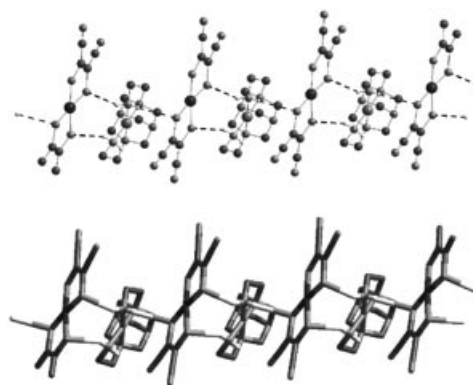
Keywords: Oxidation / Ga metal / Superoxo complex /
Reaction mechanism / Matrix isolation /
Vibrational spectroscopy





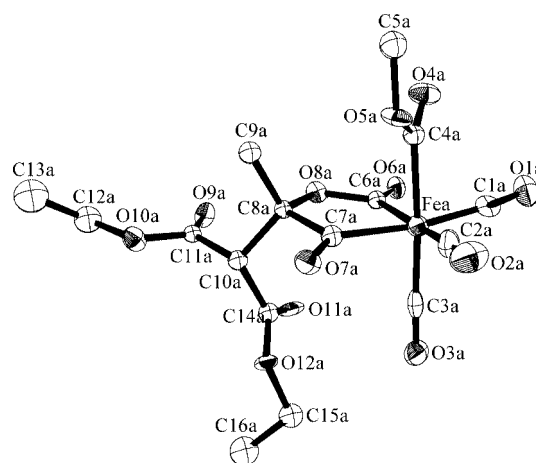
N–H...S Hydrogen Bonds in a New Family of Ion-Pair Complexes Between Cationic Nickel Tetraazabicyclononane and Anionic Metal Dithiolates: Synthesis, Characterization and Properties of $[\text{Ni}(\text{C}_9\text{H}_{22}\text{N}_6)][\text{M}(\text{mnt})_2]$ ($\text{M}^{\text{II}} = \text{Cu}, \text{Ni}, \text{Pd}$)

Keywords: Hydrogen bonds / Ion pairs / N ligands / Nickel / S ligands



Ring Closure of Alkoxy carbonyl(tetracarbonyl)-pyruvoyliron Complexes into Metallalactones Induced by Nucleophilic Attack of Carbanions

Keywords: Carbanions / Carbonyl ligands / Iron / Metallacycles / Nucleophilic addition



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