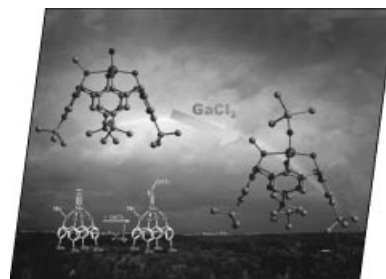


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COVER PICTURE

The cover picture shows the reaction of a calix[4]arene methyl ether stabilized nitridomolybdenum complex [MoN(MeCalix)] with GaCl₃ to yield the compound [Mo(NGaCl₃)(MeCalix)]. This complex represents the first structurally characterized example of a nitrido-bridged dinuclear compound of a group 6 metal and a group 13 halide [EX₃]. Both metal atoms are unsymmetrically bridged with a short [Mo≡N] and a long [Ga–N] contact. Details on synthesis and structural characterization are discussed in the article by U. Radius et al. on p. 2037ff. In the background there is a view from the University of Karlsruhe (TH) to the adjacent “Hardtwald” on a stormy day photographed by Bernhard Mühr (www.wolkenatlas.de).



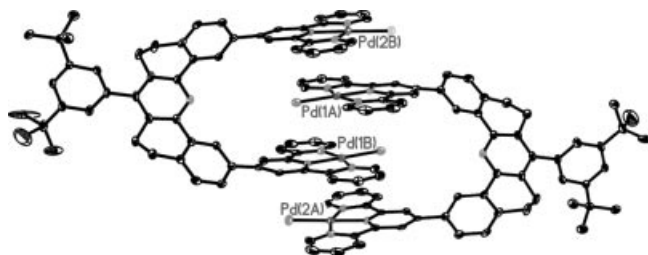
MICROREVIEW

Contents

2015 J. D. Crowley, B. Bosnich*

Molecular Recognition. Use of Metal-Containing Molecular Clefts for Supramolecular Self-Assembly and Host–Guest Formation

Keywords: Supramolecular / Self-assembly / Host–guest adducts / Molecular cleft receptors / Molecular recognition forces



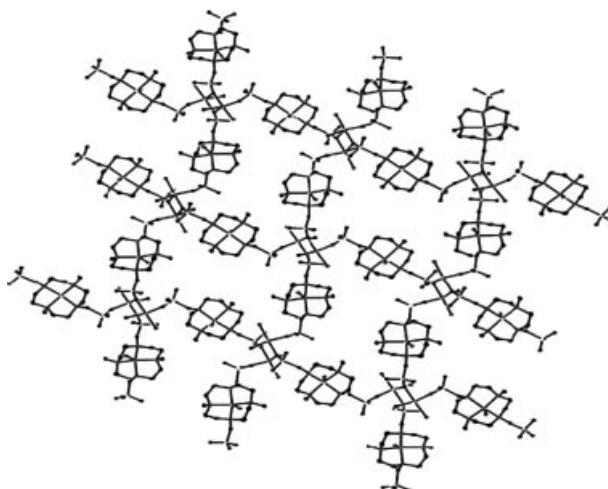
SHORT COMMUNICATIONS

- 2027** G. Giambastiani, W. Oberhauser,
C. Bianchini, F. Laschi, L. Sorace,
P. Brueggeller, R. Gutmann, A. Orlandini,
F. Vizza*



Synthesis and Characterisation of a Novel Copper(II) Azamacrocycle-Phosphonate 3D Polymeric Network

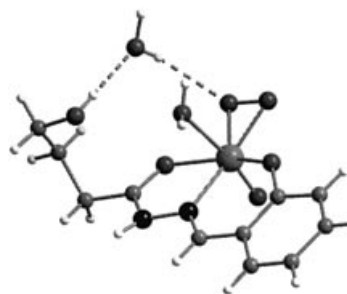
Keywords: Copper / Azamacrocycles / Coordination polymers / Macrocyclic ligands



- 2032** S. Nica, A. Pohlmann, W. Plass*

Vanadium(v) Oxoperoxo Complexes with Side Chain Substituted *N*-Salicylidenehydrazides: Modeling Supramolecular Interactions in Vanadium Haloperoxidases

Keywords: Hydrogen bonds / Oxidative bromination / Peroxo ligands / Salicylidenehydrazide ligand / Vanadium

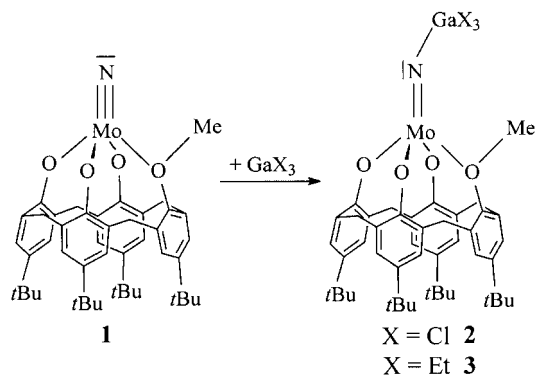


FULL PAPERS

- 2037** J. Zeller, S. Büschel, B. K. H. Reiser,
F. Begum, U. Radius*

Synthesis, Molecular Structure and Reactivity of a Calix[4]arene Monomethyl Ether Supported Nitridomolybdenum Complex

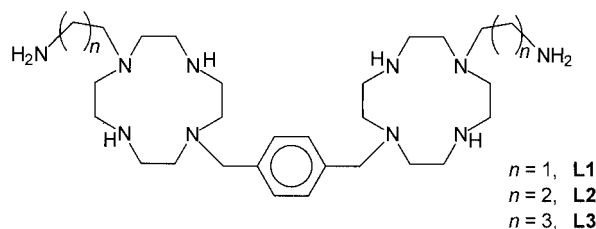
Keywords: Calixarenes / Density functional calculations / Gallium / Molybdenum / Nitrides



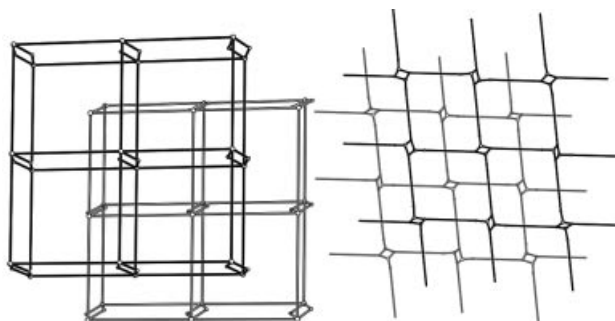
- 2044** C. Anda, A. Bencini, E. Berni, S. Ciattini,
F. Chuburu, A. Danesi, C. Giorgi,*
H. Handel,* M. Le Baccon, P. Paoletti,*
R. Tripier, V. Turcry, B. Valtancoli

Mono- and Dinuclear Cu^{II} and Zn^{II} Complexes of Cyclen-Based Bis(macrocycles) Containing Two Aminoalkyl Pendant Arms of Different Lengths

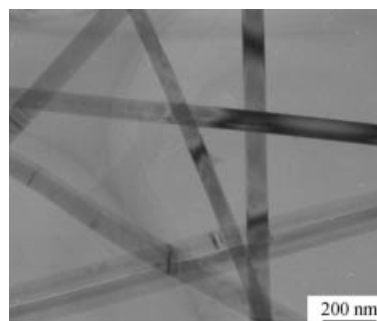
Keywords: Copper / Coordination modes / Macrocyclic ligands / N ligands / Zinc



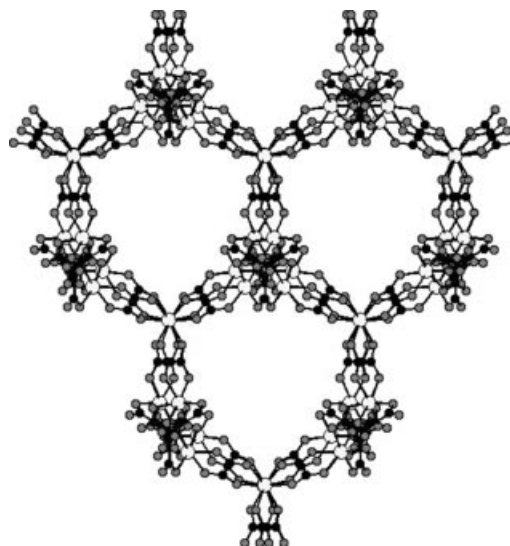
2054

Y. Xu, D. Yuan, L. Han, E. Ma, M. Wu,
Z. Lin, M. Hong*Mono- and Bilayered Lead(II)–bpno Polymers with Unusual Low Energy Emission Properties (bpno = 4,4'-Bipyridine *N,N'*-Dioxide)**Keywords:** Lead complexes / 4,4'-Bipyridine *N,N'*-dioxide / Coordination polymers / Phosphorescence

2060

G. Li,* S. Pang, Z. Wang, H. Peng,
Z. Zhang*Synthesis of $\text{H}_2\text{V}_3\text{O}_8$ Single-Crystal NanobeltsTEM image of $\text{H}_2\text{V}_3\text{O}_8$ nanobelts
synthesized at pH 4**Keywords:** Vanadium / Layered compounds / Nanobelts / Nanostructures

2064

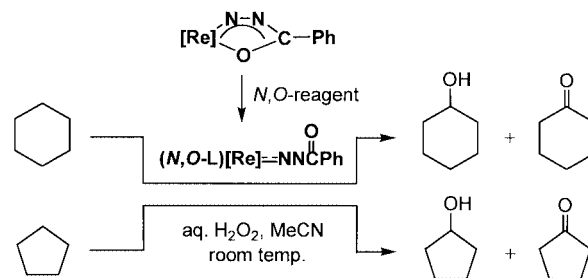
E. Coronado,* J. R. Galán-Mascarós,*
C. J. Gómez-García, E. Martínez-Ferrero,
M. Almeida, J. C. WaerenborghOxalate-Based 3D Chiral Magnets: The Series $[\text{Z}^{\text{II}}(\text{bpy})_3][\text{ClO}_4][\text{M}^{\text{II}}\text{Fe}^{\text{III}}(\text{ox})_3]$ (Z^{II} = Fe, Ru; M^{II} = Mn, Fe; bpy = 2,2'-Bipyridine; ox = Oxalate Dianion)**Keywords:** Coordination chemistry / Molecular materials / Magnetic properties / Mössbauer spectroscopy

2071 A. M. Kirillov, M. Haukka,
M. F. C. Guedes da Silva, A. J. L. Pombeiro*



Preparation and Crystal Structures of Benzoylhydrazido- and -diazenorhenium Complexes with N,O-Ligands and Their Catalytic Activity Towards Peroxidative Oxidation of Cycloalkanes

Keywords: Alkanes / Homogeneous catalysis / N,O ligands / Oxidation / Rhenium

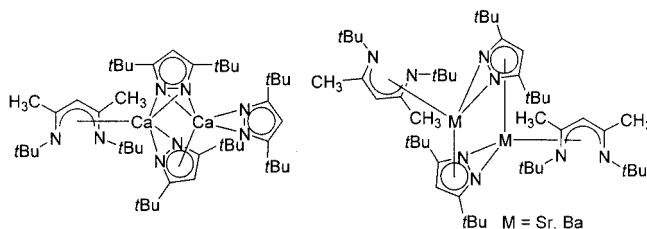


2081 H. M. El-Kaderi, M. J. Heeg, C. H. Winter*



Synthesis, Structure, and Ligand Redistribution Equilibria of Mixed Ligand Complexes of the Heavier Group 2 Elements Containing Pyrazolato and β -Diketiminato Ligands

Keywords: N ligands / Group 2 elements / Calcium / Strontium / Barium

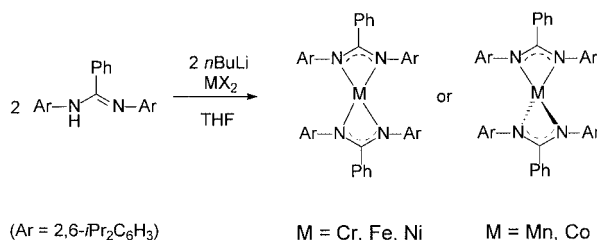


2089 C. A. Nijhuis, E. Jellema, T. J. J. Sciarone,
A. Meetsma, P. H. M. Budzelaar, B. Hessen*



First-Row Transition Metal Bis(amidinate) Complexes; Planar Four-Coordination of Fe^{II} Enforced by Sterically Demanding Aryl Substituents

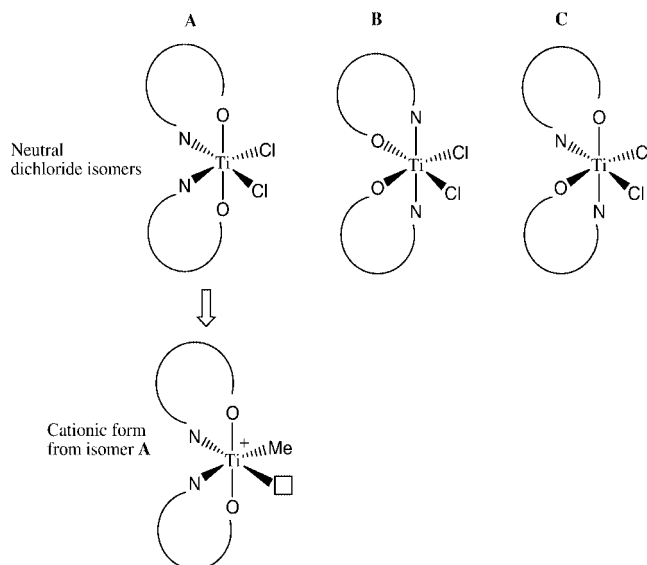
Keywords: Transition metals / Solid-state structures / Ligand effects / Amidinate / Density functional calculations



2100 A. Pärssinen, T. Luhtanen, M. Klinga,
T. Pakkanen, M. Leskelä, T. Repo*

Bis(salicylaldiminato)titanium Complexes Containing Bulky Imine Substituents: Synthesis, Characterization and Ethene Polymerization Studies

Keywords: Titanium / Polymerization / Homogeneous catalysis / Molecular modeling / N,O ligands

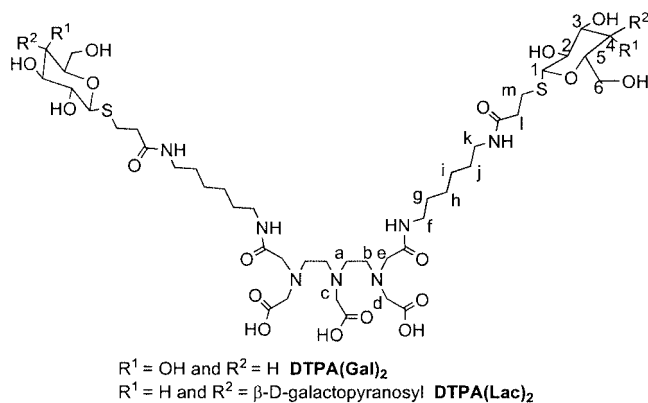


2110 P. Baía, J. P. André,* C. G. C. Geraldés,
J. A. Martins,* A. E. Merbach, É. Tóth



Lanthanide(III) Chelates of DTPA Bis(amide)
Glycoconjugates: Potential Imaging Agents
Targeted at the Asialoglycoprotein Receptor

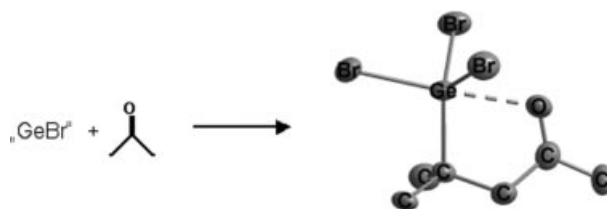
Keywords: Chelates / Contrast agents / Lanthanides /
Glycoconjugates / Receptors



2120 A. Schnepf*

On the Redox Chemistry of Ge^I Bromide

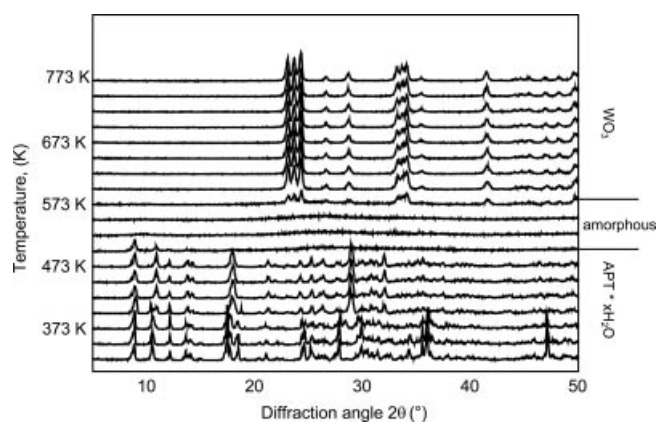
Keywords: Cage compounds / DFT calculations /
Germanium / Redox reactions



2124 O. Kirilenko, F. Girgsdies, R. E. Jentoft,
T. Ressler*

In Situ XAS and XRD Studies on the Structural
Evolution of Ammonium Paratungstate During
Thermal Decomposition

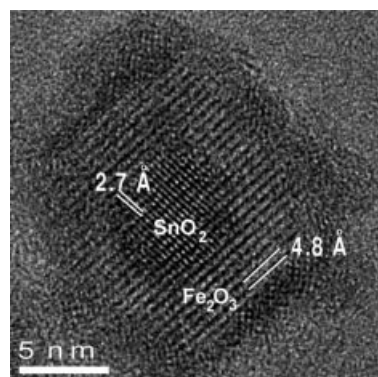
Keywords: X-ray diffraction / Tungsten / Oxidation /
Decomposition / Structure–activity re-
lationships / Heterogeneous catalysis



2134 R. H. R. Castro,* P. Hidalgo,
J. A. H. Coaquira, J. Bettini, D. Zanchet,
D. Gouvêa

Surface Segregation in SnO₂–Fe₂O₃ Nano-
powders and Effects in Mössbauer Spectroscopy

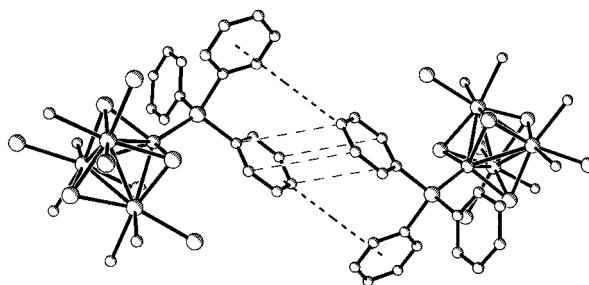
Keywords: Materials science / Nanostructures / Semi-
conductors / Electron microscopy /
Mössbauer spectroscopy



- 2139** M. N. Sokolov*, E. V. Chubarova,
R. Hernandez-Molina, M. Clausén,
D. Y. Naumov, C. Vicent, R. Llusar,
V. P. Fedin

A New Series of Homologous Cluster Complexes $[\text{Mo}_3(\text{M}'\text{EPh}_3)\text{Q}_4\text{Cl}_4(\text{H}_2\text{O})_5]$ ($\text{M}' = \text{Ni}, \text{Pd}$; $\text{E} = \text{P}, \text{As}, \text{Sb}$; $\text{Q} = \text{S}, \text{Se}$)

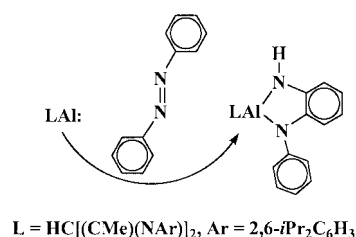
Keywords: Molybdenum / Nickel / Palladium / Chalcogenide clusters / Triphenylphosphane and analogs



- 2147** H. Zhu, J. Chai, H. Fan, H. W. Roesky,*
U. N. Nehete, H.-G. Schmidt

A Rearrangement of Azobenzene upon Interaction with an Aluminum(I) Monomer LAl $\{\text{L} = \text{HC}[(\text{CMe})(\text{NAr})]_2, \text{Ar} = 2,6\text{-iPr}_2\text{C}_6\text{H}_3\}$

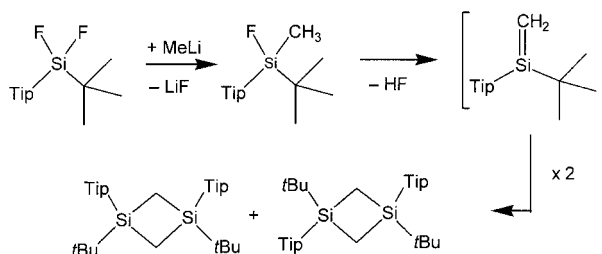
Keywords: Aluminum / Azobenzene / N ligands / Rearrangement



- 2151** R. Pietschnig,* S. Spirk, F. Belaj, K. Merz

Synthesis and Structure of a 2,4-Unsubstituted *cis/trans*-1,3-Disilacyclobutane by Dehydrofluorination of a Highly Hindered Fluorosilane

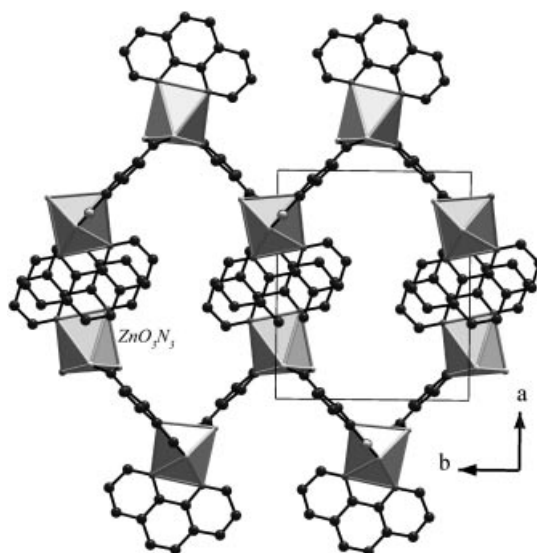
Keywords: Dimerization / Silanes / Silenes / Silicon / Strained molecules



- 2156** P. Mahata, S. Natarajan*

Pyridine- and Imidazoledicarboxylates of Zinc: Hydrothermal Synthesis, Structure, and Properties

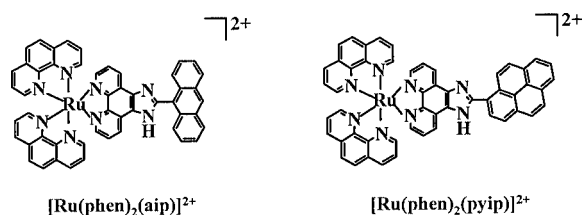
Keywords: Luminescence / N ligands / π interactions / Zinc



2164 M. Mariappan,* B. G. Maiya

Effects of Anthracene and Pyrene Units on the Interactions of Novel Polypyridylruthenium(II) Mixed-Ligand Complexes with DNA

Keywords: DNA cleavage / Electrophoresis / Inhibitors / N ligands / Radicals / Ruthenium

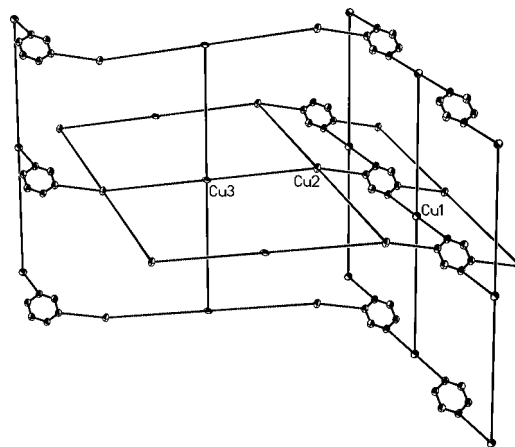


2174 J. Yang, J.-F. Ma,* Y.-Y. Liu, S.-L. Li, G.-L. Zheng



Four Novel 3D Copper(II) Coordination Polymers with Different Topologies

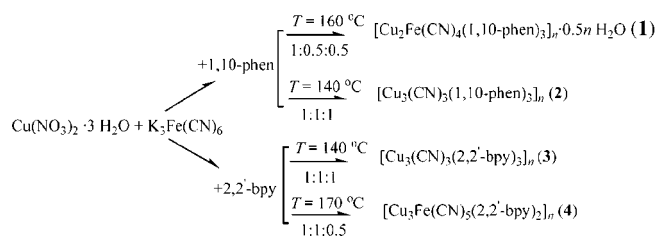
Keywords: Coordination polymers / Copper / Self-assembly / Supramolecular chemistry / Topology



2181 X. He, C.-Z. Lu,* D.-Q. Yuan, S.-M. Chen, J.-T. Chen

Synthesis and Crystal Structures of Four Cyanide-Bridged Coordination Polymers

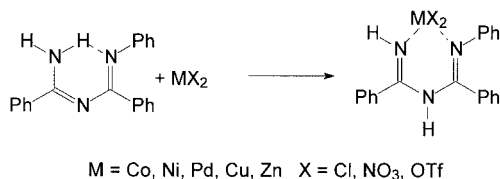
Keywords: Bridging ligands / Coordination polymers / Copper / Cyanides / Heterometallic complexes



2189 N. Heße, R. Fröhlich, I. Humelnicu, E.-U. Würthwein*

1,3,5-Triazapentadienes as Chelating Ligands: 1,2,4-Triphenyl-1,3,5-triazapentadiene Complexes of Cobalt(II), Nickel(II), Palladium(II), Copper(II) and Zinc(II)

Keywords: Chelates / Ligand design / Triazapentadienes / N ligands / Tautomerism / DFT calculations

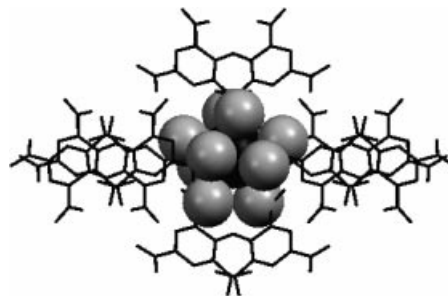


- 2198** S. Eringathodi, P. Agnihotri, B. Ganguly,
P. Bhatt, P. Sivagnana Subramanian,
P. Paul,* P. K. Ghosh*



Towards Understanding of the Selective Precipitation of Alkali Metal Cations in Presence of Dipicrylamine Anion

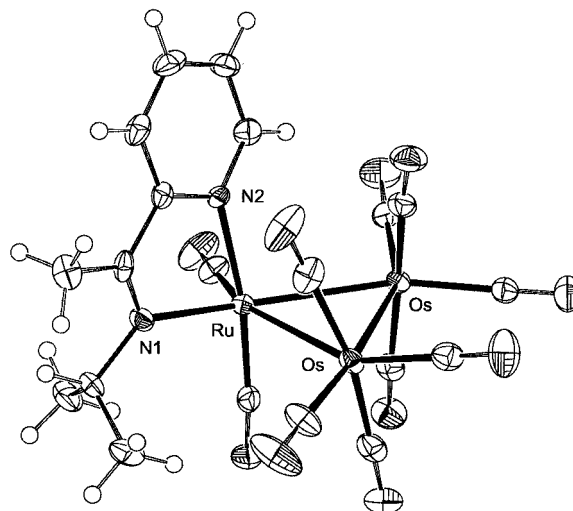
Keywords: Dipicrylamine / Alkali and alkaline earth metals / Selectivity / Single-crystal X-ray structure / Structure-selectivity correlation



- 2206** F. W. Vergeer, M. Lutz, A. L. Spek,
M. J. Calhorda, D. J. Stufkens, F. Hartl*

Heterosite Effects in Novel Heteronuclear Clusters $[\text{Os}_2\text{Ru}(\text{CO})_{11}(\text{PPh}_3)]$ and $[\text{Os}_2\text{Ru}(\text{CO})_{10}(\text{2-acetylpyridine-}N\text{-isopropylimine})]$

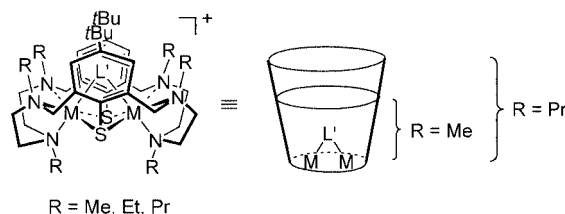
Keywords: Cluster compounds / Density functional calculations / Time-resolved spectroscopy / Photochemistry / Spectroelectrochemistry



- 2223** M. Gressenbuch, V. Lozan, G. Steinfeld,
B. Kersting*

Preparation and Characterization of Co^{II} , Ni^{II} , and Zn^{II} Complexes of Sterically Demanding Hexaazamacrocyclic Dithiophenolates

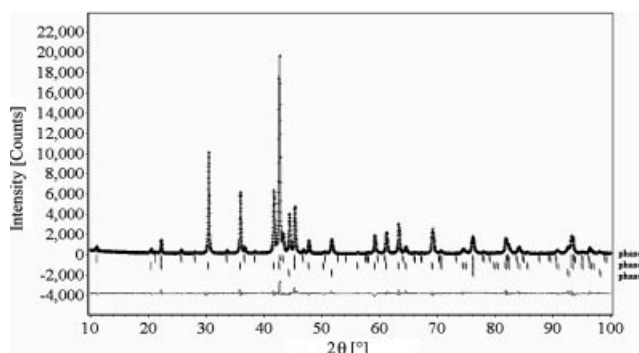
Keywords: Binding pockets / Macrocyclic ligands / Cobalt / Nickel / Zinc



- 2235** X.-B. Zhang, D.-Z. Sun, W.-Y. Yin,
Y.-J. Chai, M.-S. Zhao*

Crystallographic and Electrochemical Characteristics of $\text{La}_{0.7}\text{Mg}_{0.3}\text{Ni}_{4.5-x}(\text{Al}_{0.5}\text{Mo}_{0.5})_x$ ($x = 0-0.8$) Hydrogen Storage Alloys

Keywords: High-rate dischargeability / Low-temperature dischargeability / Exchange current density / Hydrogen diffusion coefficient / Alloys / X-ray diffraction

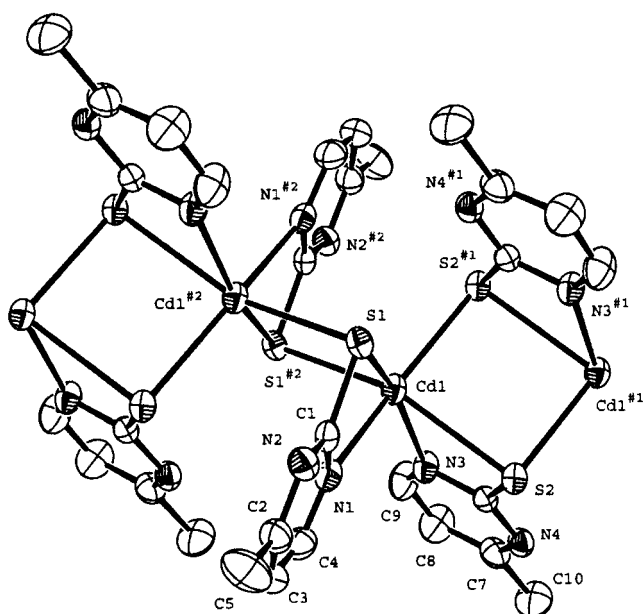


2242

A. Rodríguez, A. Sousa-Pedrares,
J. A. García-Vázquez, J. Romero, A. Sousa*

Electrochemical Synthesis and Structural Characterisation of Cadmium and Mercury Complexes Containing Pyrimidine-2-thionate Ligands

Keywords: Cadmium / Electrochemistry / Heterocycles / Mercury / S ligands



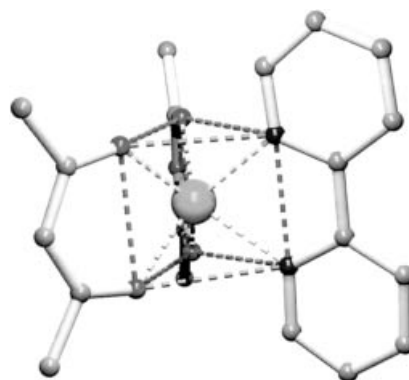
2255

R. van Gorkum, F. Buda, H. Kooijman,
A. L. Spek, E. Bouwman,* J. Reedijk



Trigonal-Prismatic vs. Octahedral Geometry for Mn^{II} Complexes with Innocent Didentate Ligands: A Subtle Difference as Shown by XRD and DFT on $[\text{Mn}(\text{acac})_2(\text{bpy})]$

Keywords: Trigonal prism / Distorted octahedron / Density Functional Theory (DFT) / Manganese(II) / Packing effects



CORRECTION

2262

S. Steinhauser, U. Heinz, M. Bartholomä,
T. Weyhermüller, H. Nick,
K. Hegetschweiler*

Complex Formation of ICL670 and Related Ligands with Fe^{III} and Fe^{II}

Keywords: Iron / Ligand design / Chelates / N,O ligands / Redox chemistry