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COVER PICTURE

The cover picture shows the characteristic crystal form of elemental bismuth in the background and a perspective view of the crystal structure $\text{Bi}(\text{Bi}_9)[\text{NbCl}_6]_3$ containing three-capped trigonal prismatic Bi_9^{5+} clusters. The Bi^+ cations in the channels made up of the octahedral halometalate anions are disordered and can be treated in different ways in the crystallographic description. A remarkable feature of the compound is the paramagnetic behaviour, which shows the presence of Nb in the less common oxidation state +IV. Details are discussed in the article by J. Beck and T. Hilbert on p. 2019 ff.



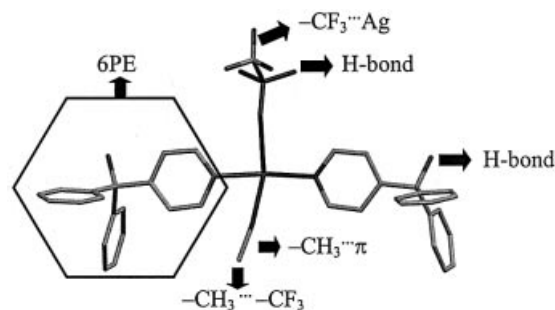
SHORT COMMUNICATIONS

Contents

1985 **A. Bacchi,* E. Bosetti, M. Carcelli,
 P. Pelagatti, D. Rogolino**

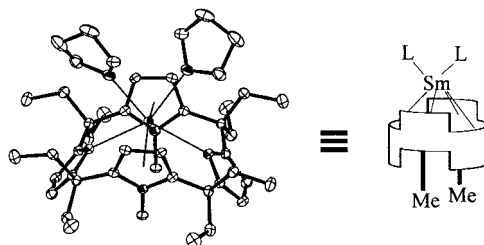
The Structural Role of the Triflate Anion in the Non-Covalent Silver Polymer $[\text{Ag}(\text{LOH})_2-(\text{CF}_3\text{SO}_3)(\text{CH}_3\text{CN})]$ {LOH = α -(4-Pyridyl)-benzhydrol}

Keywords: Crystal engineering / Non-covalent interactions / Hydrogen bonds / Molecular tectonics / Silver compounds



1992 J. Wang, A. K. J. Dick, M. G. Gardiner,*
B. F. Yates, E. J. Peacock, B. W. Skelton,
A. H. White

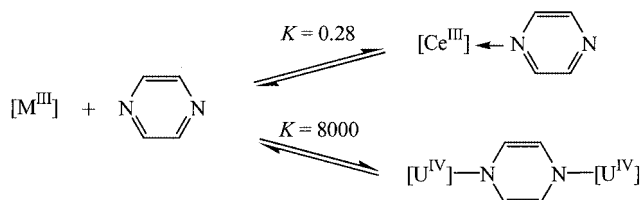
Lanthanide(II) and -(III) Porphyrinogens.
Rational Synthesis and Derivatisation of
Mononuclear, Alkali-Metal-Free Lanthanide(II)
and -(III) *meso*-Octaalkylporphyrinogen Com-
plexes



Keywords: Lanthanides / Macrocyclic ligands / Metal-
locenes / Porphyrinoids / Samarium

1996 T. Mehdoui, J.-C. Berthet,* P. Thuéry,
M. Ephritikhine*

Clear-Cut Lanthanide(III)/Actinide(III) Differen-
tiation in Coordination of Pyrazine to Tris-
(cyclopentadienyl) Complexes of Cerium and
Uranium, Involving Reversible $U^{III} \rightarrow U^{IV}$
Oxidation

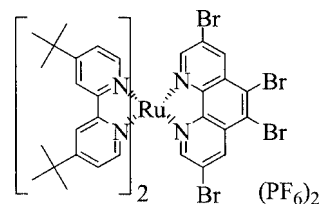


Keywords: Actinides / Lanthanides / Nitrogen ligands /
Selective complexation

2001 S. Rau,* R. Fischer, M. Jäger, B. Schäfer,
S. Meyer, G. Kreisel, H. Görls, M. Rudolf,
W. Henry, J. G. Vos



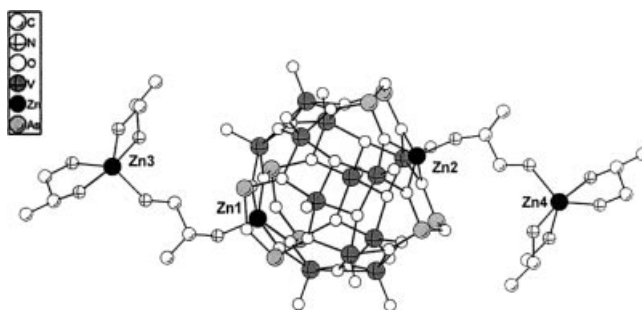
Regioselective Functionalization of Tetrabromo-
phenanthroline–Ruthenium Complexes



Keywords: Ruthenium / Nucleophilic substitution /
Phenanthroline

2004 S.-T. Zheng, J. Zhang, G.-Y. Yang*

$[\{ Zn(enMe)_2 \}_2 (enMe)_2 \{ Zn_2As_8V_{12}O_{40}(H_2O) \}] \cdot$
 $4H_2O$: A Hybrid Molecular Material Based on
Covalently Linked Inorganic Zn–As–V
Clusters and Transition Metal Complexes via
enMe Ligands

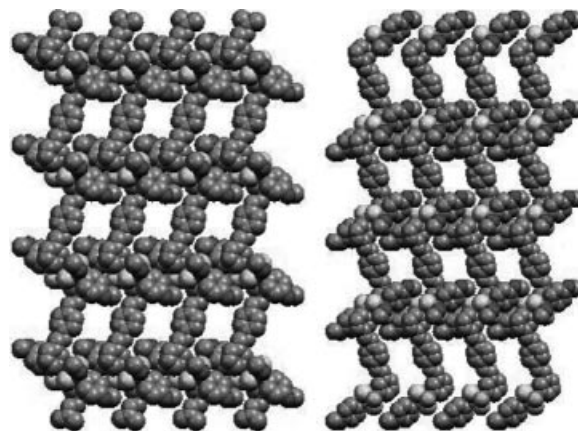


Keywords: Polyoxometalate / Vanadium / Arsenic /
Zinc / Inorganic–organic hybrids

2008 M. C. Aragoni,* M. Arca, N. R. Champness,
A. V. Chernikov, F. A. Devillanova, F. Isaia,
V. Lippolis, N. S. Oxtoby, G. Verani,
S. Z. Vatsadze, C. Wilson

Designed Assembly of Low-dimensional
Molecular Units: Novel Neutral Coordination
Polymers Based on (Phosphonodithioato)Ni^{II}
Complexes

Keywords: Phosphonodithioates / Bipyridyl ligands /
Crystal engineering / Coordination
polymers / X-ray diffraction

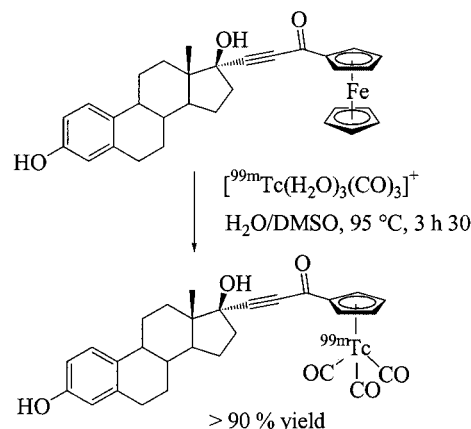


2013 S. Masi, S. Top,* L. Boubekeur, G. Jaouen,*
S. Mundwiler, B. Spingler, R. Alberto*



Direct Synthesis of Tricarbonyl(cyclopentadienyl)-
rhenium and Tricarbonyl(cyclopentadienyl)tech-
netium Units from Ferrocenyl Moieties – Pre-
paration of 17 α -Ethynylestradiol Derivative
bearing a Tricarbonyl(cyclopentadienyl)technetium
Group

Keywords: Technetium / Rhenium / Estradiol / Radio-
pharmaceuticals / Bioorganometallics

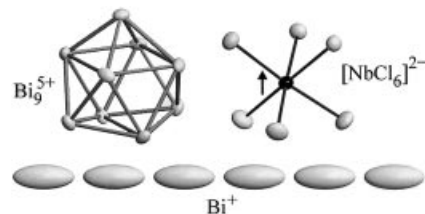


FULL PAPERS

2019 J. Beck,* T. Hilbert

Crystal Structure and Magnetic Properties of
Bi(Bi₉)[NbCl₆]₃, a New Member of the Structure
Family Bi(Bi₉)[MX₆]₃, and the Crystal Structure
of Bi₈[Ta₂O₂Br₇]₂

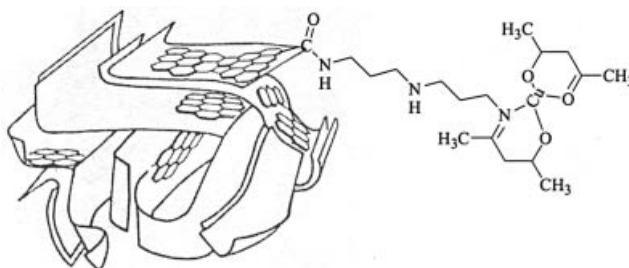
Keywords: Bismuth / Niobium / Tantalum / Magnetic
properties / X-ray diffraction



2027 A. R. Silva, M. Martins, M. M. A. Freitas,
J. L. Figueiredo, C. Freire,* B. de Castro

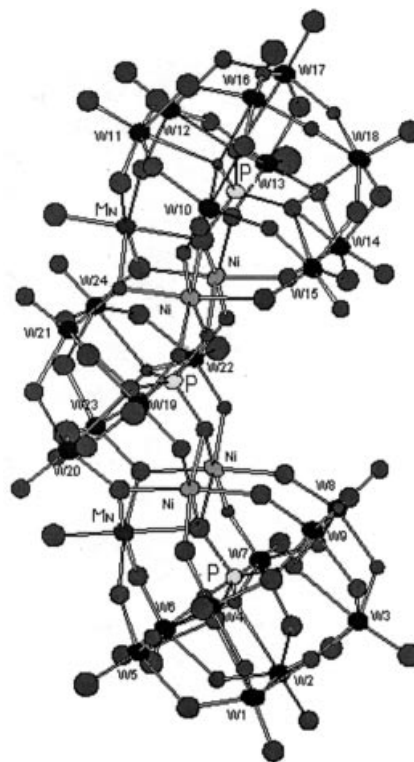
Anchoring of Copper(II) Acetylacetonate onto
an Activated Carbon Functionalised with a Tri-
amine

Keywords: Copper / Schiff bases / Activated carbon /
Anchoring / EPR spectroscopy



2036 D. Jabbour, B. Keita, I.-M. Mbomekalle,
L. Nadjo,* U. Kortz

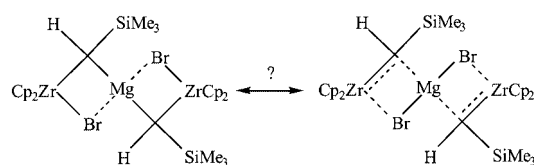
Investigation of Multi-Nickel-Substituted
Tungstophosphates and Their Stability and
Electrocatalytic Properties in Aqueous Media



Keywords: Electrochemistry / Nickel / Polyoxo-
metallates / Sandwich complexes / UV/Vis
spectroscopy

2045 M. Hogenbirk, G. Schat, F. J. J. de Kanter,
O. S. Akkerman, F. Bickelhaupt,*
H. Kooijman, A. L. Spek

Investigations on the Reactivity of Bis(bromo-
magnesio)trimethylsilylmethane – Molecular
Structure of a Tebbe-Type Spiro-Organo-
magnesium Compound

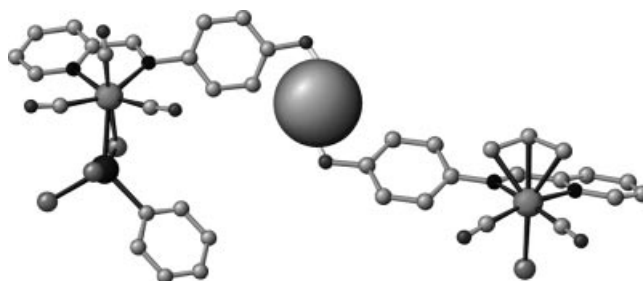


Keywords: Magnesium / Zirconium / Metallocenes /
Metallacycles / Structure elucidation

2053 K. Heinze,* V. Jacob, C. Feige



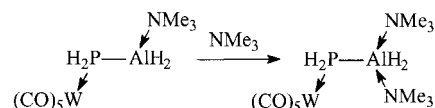
Oxidative Addition of RX to Soluble and Poly-
mer-Bound Molybdenum Carbonyl Complexes



Keywords: Allyl Ligands / Molybdenum / Polymer-
bound complexes / Solid-phase synthesis

2062 U. Vogel, K.-C. Schwan, M. Scheer*

Reactivity of a Phosphanylalane Complex
towards Lewis Bases



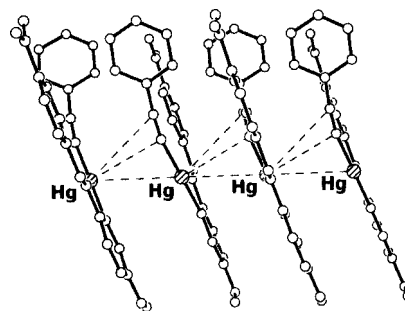
Keywords: Aluminum / Phosphorus / Hydrides /
Reactivity / Lewis bases

2066 W.-Y. Wong,* G.-L. Lu, L. Liu, J.-X. Shi, Z. Lin



Synthesis, Structures and Luminescent Properties of σ -Alkynyl Complexes of Orthomercuriated Schiff Bases

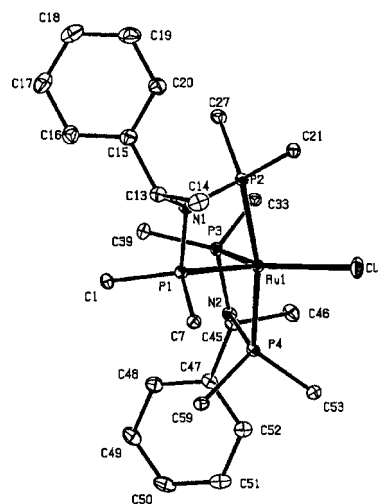
Keywords: Alkyne ligands / Luminescence / Mercury / Schiff bases



2078 J. Díez, M. P. Gamasa,* J. Gimeno, Y. Rodríguez, S. García-Granda

Five- and Six-Coordinate Ruthenium(II) Complexes Containing the Bidentate Phosphane (–)-*N,N*-Bis(diphenylphosphanyl)-(*S*)-1-phenylethylamine [(*S*)-peap]: X-ray Crystal Structure of the First 16-Electron Ruthenium Complex Bearing a Four-Membered Ring [RuCl{ κ^2 -*P,P*-(*S*)-peap}₂][SbF₆]·C₂H₄Cl₂

Keywords: Ruthenium / (*S*)-peap ligand / Five-coordinate complexes / Octahedral complexes

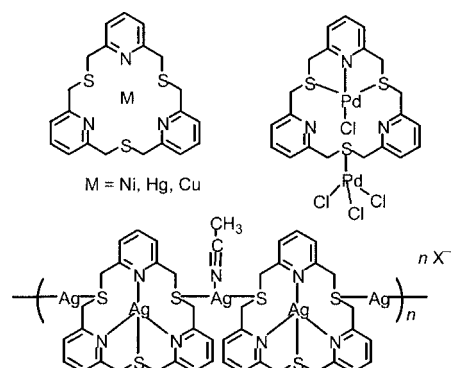


2086 M. Vetrichelvan, Y.-H. Lai,* K. F. Mok



3,11,19-Trithia[3.3.3]pyridinophane: Structural Diversity in Its Transition Metal Complexes

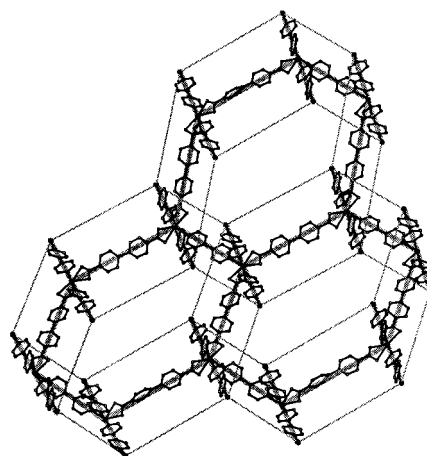
Keywords: Coordination polymers / Macrocycles / Structural diversity / Transition metals / Zwitterions



2096 J.-C. Dai, X.-T. Wu,* S.-M. Hu, Z.-Y. Fu, J.-J. Zhang, W.-X. Du, H.-H. Zhang, R.-Q. Sun

Crystal Engineering of the Coordination Architecture of Metal Polycarboxylate Complexes by Hydrothermal Synthesis: Assembly and Characterization of Four Novel Cadmium Polycarboxylate Coordination Polymers Based on Mixed Ligands

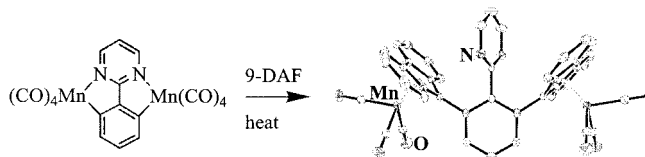
Keywords: Cadmium / Coordination polymers / Crystal engineering / Hydrothermal synthesis / Mixed ligands / Structural topology



- 2107** J.-P. Djukic,* C. Michon, D. Heiser,
N. Kyritsakas-Gruber, A. de Cian,
K. H. Dötz, M. Pfeffer



The Reaction of Diazocyclopentadienyl Compounds with Cyclomanganated Arenes as a Route to Ligand-Appended Cymantrenes

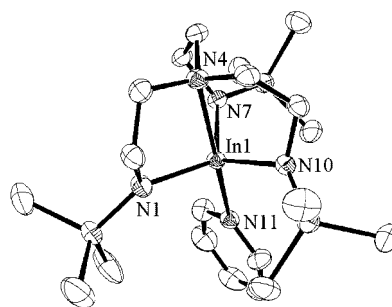


9-DAF: 9-diazo fluorene

Keywords: Diazo compounds / Cyclopentadienyl ligands / Insertion / Manganese / Ligand design

- 2123** P. L. Shutov, S. S. Karlov,* K. Harms,
A. V. Churakov, J. Lorberth, G. S. Zaitseva

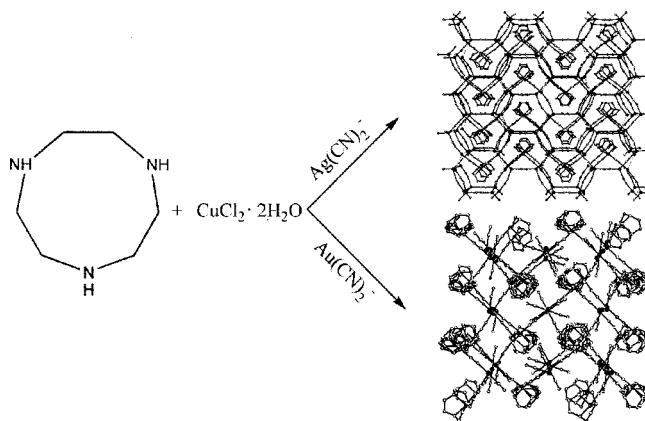
Reaction of $[\text{In}(\text{NEt}_2)_3]_2$ with $\text{N}(\text{CH}_2\text{CH}_2\text{N}-\text{SiMe}_3\text{H})_3$: Synthesis and Characterization of New Azaindatranes and Azaindocane



Keywords: N ligands / Indium / Tripodal ligands / Amides

- 2130** W. Han, L. Yi, Z.-Q. Liu, W. Gu,
S.-P. Yan,* P. Cheng, D.-Z. Liao,
Z.-H. Jiang

Synthesis and Characterisation of Two Supramolecular Polymers $[\text{CuAg}_4(\text{CN})_6(\text{tacn})]_n$ and $[\text{CuAu}_2(\text{CN})_4(\text{tacn})]_n$ Containing Metal–Metal Interactions

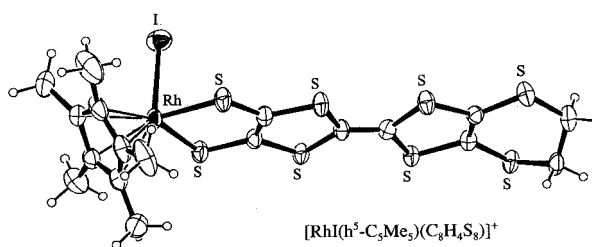


Keywords: Silver / Gold / Macrocyclic ligands / Metal–metal interactions

- 2137** K. Kawabata, M. Nakano, H. Tamura,
G. Matsubayashi*

Properties of Organometallic Sulfur-Rich Dithiolate Complexes $[\text{M}(\text{L})(\text{C}_8\text{H}_4\text{S}_8)]$ ($\text{M} = \text{Rh}^{\text{III}}$ and Ir^{III} ; $\text{L} = \eta^5\text{-C}_5\text{H}_5$ and $\eta^5\text{-C}_5\text{Me}_5$) and Their Oxidation

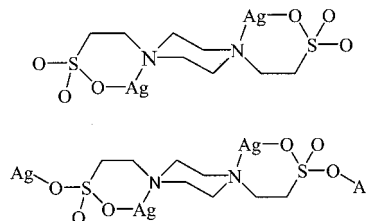
Keywords: Electrical conductivity / EPR spectroscopy / Iridium / Oxidation / Rhodium / S ligands / X-ray diffraction



- 2144** D. Sun, R. Cao,* W. Bi, X. Li, Y. Wang, M. Hong

Self-Assembly of Novel Silver Polymers Based on Flexible Sulfonate Ligands

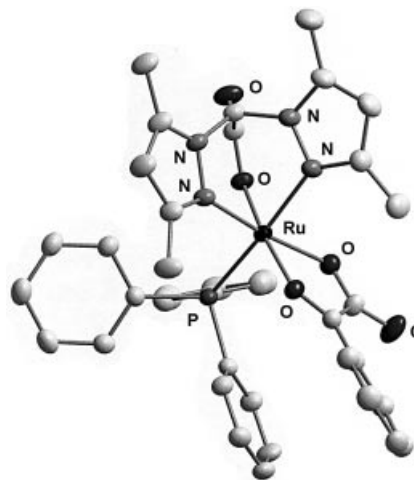
Keywords: Self-assembly / Silver / Sulfonate / Polymers



- 2151** R. Müller, E. Hübner, N. Burzlaff*

Ruthenium(II) Complexes Bearing Carboxylato and 2-Oxocarboxylato Ligands

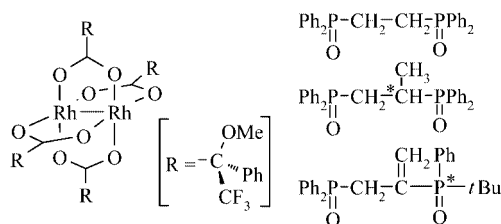
Keywords: Scorpionate ligands / Ruthenium / Bio-inorganic chemistry / Tripodal ligands



- 2160** T. Gáti, A. Simon, G. Tóth,* A. Szmigielska, A. M. May, K. M. Pietrusiewicz, S. Moeller, D. Magiera, H. Duddeck*

Bis(phosphane oxide) Adducts of $\text{Rh}_2(\text{MTPA})_4$ – Kinetics and Chirality Discrimination

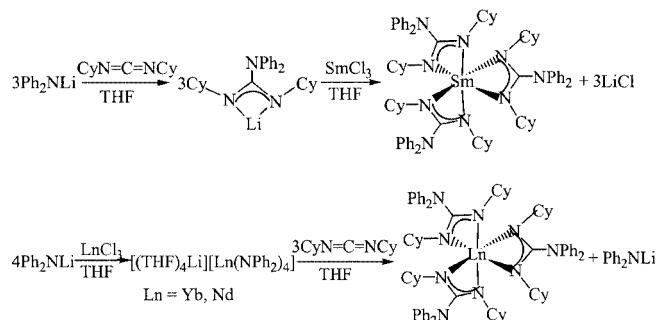
Keywords: Rhodium / Phosphane ligands / NMR spectroscopy / Complexation modes / Chiral discrimination



- 2167** L. Zhou, Y. Yao, Y. Zhang, M. Xue, J. Chen, Q. Shen*

Synthesis and Characterization of Homoleptic Lanthanide Guanidinate Complexes and Their Catalytic Activity for the Ring-Opening Polymerization of Trimethylene Carbonate

Keywords: Insertion / Lanthanides / N ligands / Polymerization

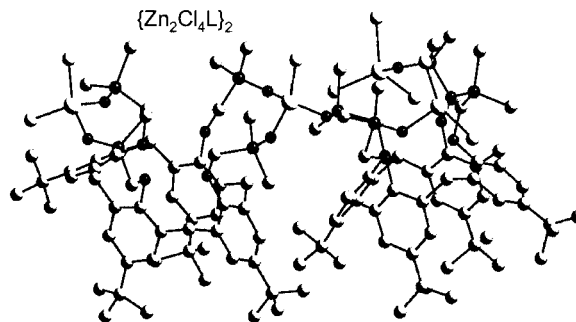


- 2173 V. Videva, A.-S. Chauvin, S. Varbanov,
C. Baux, R. Scopelliti, M. Mitewa,
J.-C. G. Bünzli*



Cobalt(II), Nickel(II), Copper(II), and Zinc(II)
Complexes with a *p*-*tert*-Butylcalix[4]arene
Fitted with Phosphinoyl Pendant Arms

Keywords: Calix[4]arene / Transition metals / Stability
constants / X-ray diffraction / Polynuclear
compounds



- 2180 Y.-T. Cheng, H.-L. Chen, S.-Y. Tsai,
C.-C. Su,* H.-S. Tsang, T.-S. Kuo,
Y.-C. Tsai, F.-L. Liao, S.-L. Wang

Structure, Bonding, and Tyrosinase-Like Reac-
tivity of Copper Complexes Coordinated by
Mononucleating Tridentate N–O–N Type
Ligands

Keywords: Enzyme models / N,O ligands / Copper /
Oxidations

