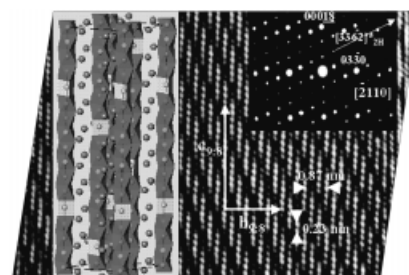


COVER PICTURE

The cover picture shows the electron diffraction pattern, high resolution electron microscopy and a structural model of $\text{Ba}_9\text{Rh}_{7.92}\text{O}_{24}$, the $\alpha = 3$, $\beta = 6$ member of the one-dimensional $(\text{A}_3\text{B}_2\text{O}_6)_\alpha(\text{A}_3\text{B}_3\text{O}_9)_\beta$ homologous series. Seven octahedra sharing faces alternate with a trigonal prism defining chains of Rh atoms running parallel to the c axis of a rhombohedral unit cell ($R\bar{3}c$), separated by Ba atoms. Electron diffraction allows the direct observation of the α and β structural blocks forming such a commensurate modulated structure as well as the superstructure direction. Details are discussed in the article by J. M. González-Calbet et al. on p. 805 ff.



MICROREVIEW

Contents

783 V. Guerchais

Electrophilic Half-Sandwich (Carbene)metal
 (Metal = Fe, Ru, Os) Complexes: Recent
 Developments in Synthesis and Applications

Keywords: Carbene complexes / Catalysis / C–C bond
 formation / Diazo compounds



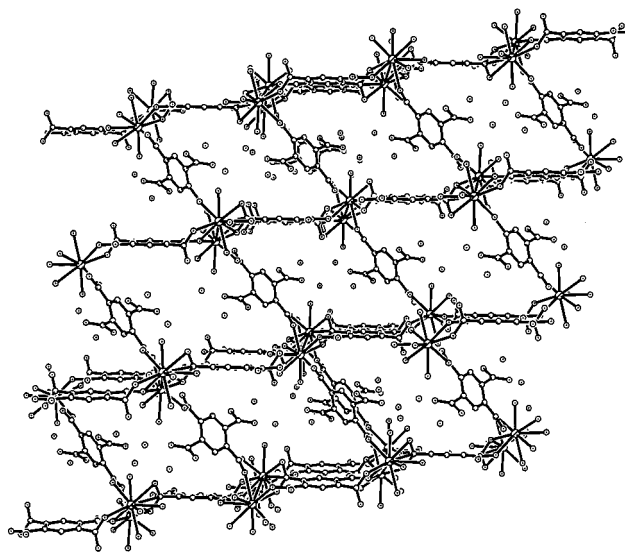
SHORT COMMUNICATIONS

- 797 C.-D. Wu, C.-Z. Lu,* W.-B. Yang, S.-F. Lu,
H.-H. Zhuang, J.-S. Huang



The Structure and Physical Properties of a Novel Three-Dimensional Zeolite-Like Nanoporous Architecture Formed by Two Different Polymeric Layers: $[\text{Eu}_2(\text{btc})(\text{H}_2\text{btc})(\text{H}_2\text{O})]\cdot 4\text{H}_2\text{O}$

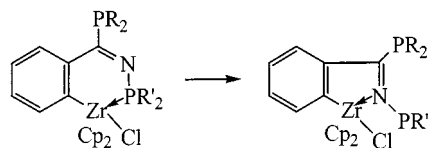
Keywords: Hydrothermal synthesis / Nanostructures / Materials science / Europium / Organic-inorganic hybrid composites



- 801 M. Zablocka, K. Owsianik, A. Igau,
A. Skowronska, J.-P. Majoral*

From *P*-Metalated *trans*-Iminodiphosphanes to *N*-Metalated *cis*-Iminodiphosphanes: An Unprecedented Rearrangement

Keywords: Phosphanes / Zirconium / N ligands

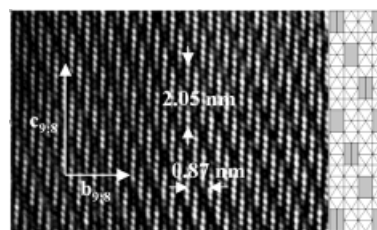


FULL PAPERS

- 805 K. Boulahya, M. Hernando, A. Varela,
J. M. González-Calbet,* M. Parras,
U. Amador, J. L. Martínez

Structure Determination of the $\alpha = 3$, $\beta = 6$ Term of the $(\text{A}_3\text{B}_2\text{O}_6)_\alpha(\text{A}_3\text{B}_3\text{O}_9)_\beta$ Homologous Series ($\text{A} = \text{Ba}$, $\text{B} = \text{Rh}$) by a Combination of Powder X-ray Diffraction and Electron Microscopy

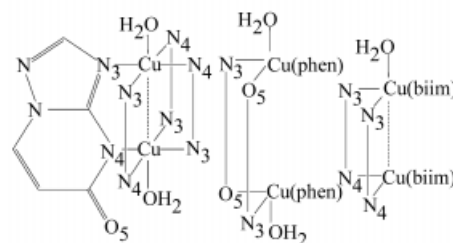
Keywords: One-dimensional oxides / X-ray diffraction / Electron diffraction / Electron microscopy



- 811 M. Abul Haj, M. Quirós,* J. M. Salas,
J. A. Dobado, J. M. Molina,
M. G. Basallote, J. A. Mániz

Structurally Different Dinuclear Copper(II) Complexes with the Same Triazolopyrimidine Bridging Ligand

Keywords: Copper / N,O ligands / Metal-metal interactions / Structure elucidation

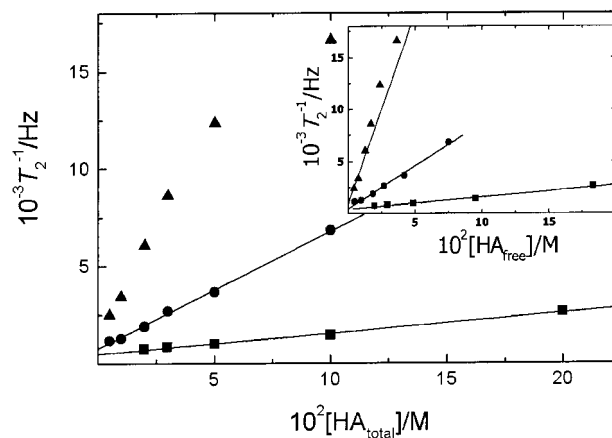


- 819 M. Biruš,* R. van Eldik,* M. Gabričević,
A. Zahl



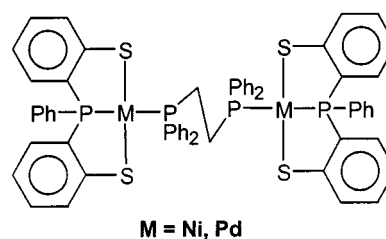
^{139}La NMR Kinetic Study of Lanthanum(III)
Complexation with Acetohydroxamic Acid

Keywords: Lanthanum / NMR spectroscopy /
Kinetics / Reaction mechanisms



- 826 E. Cerrada, L. R. Falvello,
M. B. Hursthouse, M. Laguna,* A. Luquin,
C. Pozo-Gonzalo

$\text{PPh}(2\text{-C}_6\text{H}_4\text{S})_2$ as a Pincer Ligand in Nickel(II)
and Palladium(II) Complexes – X-ray Structure
of $[\text{Ni}\{\text{PPh}(\text{C}_6\text{H}_4\text{S})_2\}(\text{PPh}_2\text{Me})]$, $[\text{Pd}_2(\mu\text{-dppe})\text{-}$
 $\{\text{PPh}(\text{C}_6\text{H}_4\text{S})_2\}_2]$ and $[\text{Ni}\{\text{PPh}(\text{C}_6\text{H}_4\text{S})_2\}_2]$

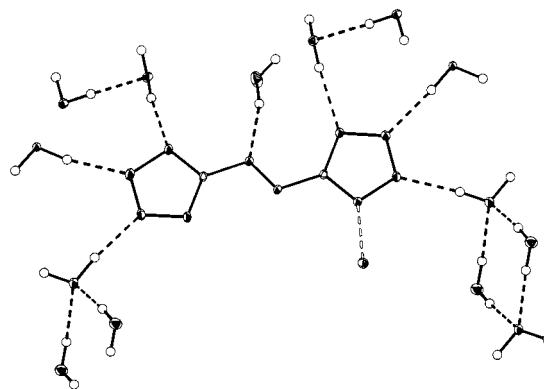


Keywords: Nickel / Palladium / P ligands / S ligands

- 834 A. Hammerl, G. Holl, T. M. Klapötke,*
P. Mayer, H. Nöth, H. Piotrowski,
M. Warchhold

Salts of 5,5'-Azotetrazolate

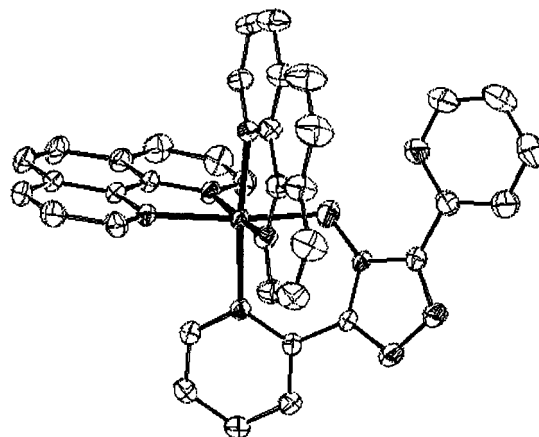
Keywords: Azo compounds / Hydrates / Nitrogen
heterocycles / Tetrazoles / Highly energetic
materials



- 846 H. M. Burke, J. F. Gallagher, M. T. Indelli,
F. Scandola, J. G. Vos*

Rhodium Mediated N–O Bond Formation

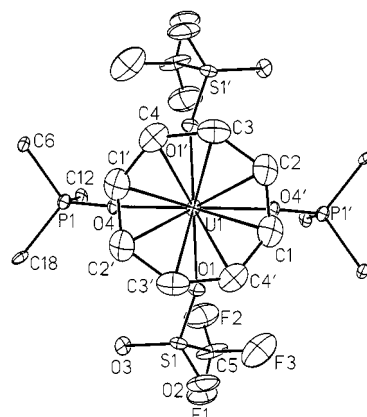
Keywords: Rhodium / N ligands / Oxygen / Insertion /
Crystal structure



850 J. C. Berthet,* M. Nierlich, M. Ephritikhine

Synthesis of Organouranium(IV) Triflates from $U(OTf)_4$ or from Alkyl or Amide Precursors

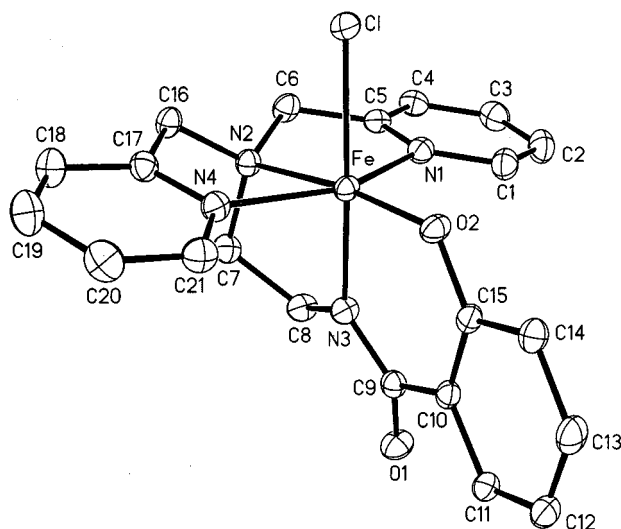
Keywords: Uranium / Triflate complexes / Cyclopentadienyl complexes / Cyclooctatetraenyl complexes



859 D. S. Marlin, M. M. Olmstead, P. K. Mascharak*

Spin States and Stability of Fe^{III} Complexes of Ligands with Carboxamido Nitrogen and Phenolato Oxygen Donors

Keywords: Iron / N ligands / O ligands / Spin states

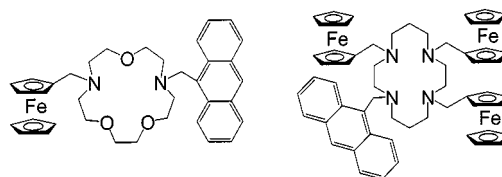


866 F. Sancenon, A. Benito, F. J. Hernández, J. M. Lloris, R. Martínez-Mañez,* T. Pardo, J. Soto



Difunctionalised Chemosensors Containing Electroactive and Fluorescent Signalling Sub-units

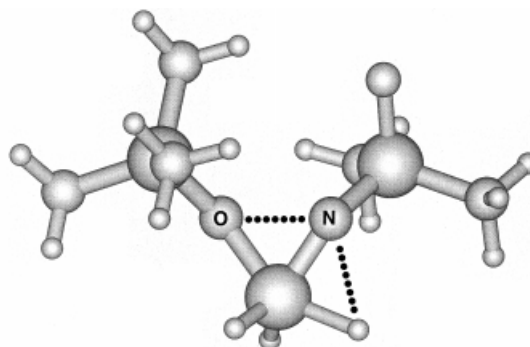
Keywords: Ferrocene / Anthracene / Fluorescence / Chemosensors



876 S. Schmatz,* F. Diedrich, C. Ebker, U. Klingebiel*

Thermal Isomerisation of Tris(silyl)hydroxylamines to Silylaminodisiloxanes – Experimental and Quantum Chemical Results

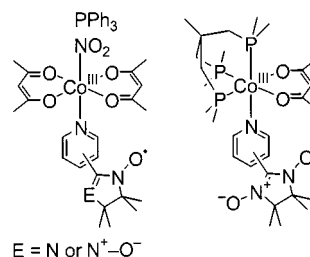
Keywords: Silicon / Hydroxylamines / Isomerisation / Ab initio calculations / Transition states



**886 M. Ogita, Y. Yamamoto, T. Suzuki,
S. Kaizaki***

Syntheses, Structures, and Spectroscopic Properties of Cobalt(III) Complexes Containing 3- or 4-Pyridyl-Substituted Nitronyl and Imino Nitroxide Ligands

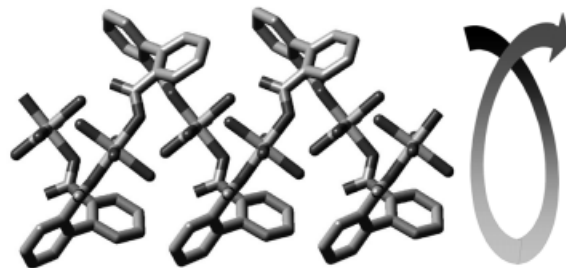
Keywords: Nitroxides / Radicals / Cobalt / NMR spectroscopy / Deoxygenation



**895 J.-M. Rueff, S. Pillet, N. Claiser,
G. Bonaventure, M. Souhassou, P. Rabu***

Synthesis, Crystal Structure and Magnetic Properties of the Helical-Chain Compounds [M₂(O₂CC₁₂H₈CO₂)₂(H₂O)₈] [M = Cobalt(II), Nickel(II)]

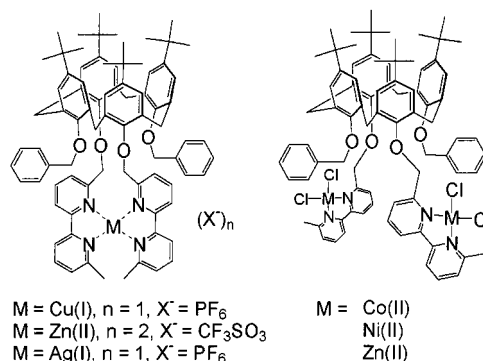
Keywords: Carboxylate ligands / Hydrothermal synthesis / Nickel / Cobalt / Magnetic properties



**901 J.-O. Dalbavie, J.-B. Regnouf-de-Vains,*
R. Lamartine, M. Perrin, S. Lecocq,
B. Fenet**

A Calix[4]arene-Based Bipyridine Podand as Versatile Ligand for Transition Metal Cations

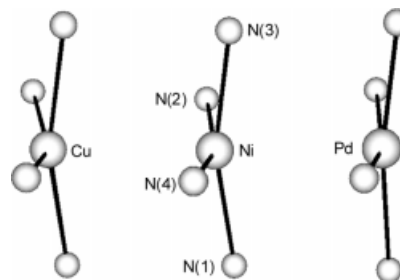
Keywords: Calixarenes / Bipyridines / Podands / Cobalt / Nickel / Zinc / Copper



**910 M. Bröring,* C. D. Brandt, J. Bley-Eschrich,
J.-P. Gisselbrecht***

Structural and Spectroelectrochemical Studies on (2,2'-Bidipyrinato)copper(II) and -palladium(II) Complexes

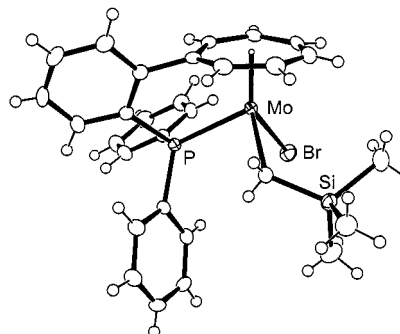
Keywords: Porphyrinoids / N ligands / Copper / Palladium / Electrochemistry



**918 M. Tamm,* K. Baum, T. Lügger,
R. Fröhlich, K. Bergander**

Chelate Complexes of Functionalized Cycloheptatrienyl Ligands: 17- and 18-Electron Molybdenum Complexes with Linked Cycloheptatrienyl-Phosphane Ligands and Their Use in Transition Metal Catalysis

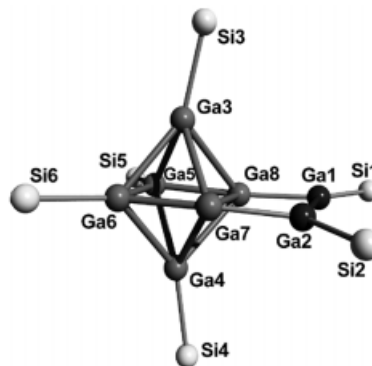
Keywords: Cycloheptatrienyl complexes / Molybdenum / Ligand functionalization / Ring-opening polymerization / Metathesis



- 929 N. Wiberg,* T. Blank, H. Nöth, M. Suter,
M. Warchhold

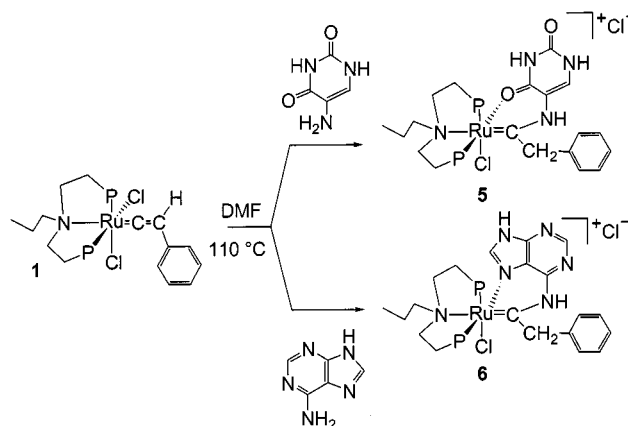
Octagallane ($t\text{Bu}_3\text{Si}$) $_6\text{Ga}_8$ and Its Reduction to
($t\text{Bu}_3\text{Si}$) $_6\text{Ga}_8^{2-}$ – On the Existence of Isomeric
Gallium Clusters

Keywords: Clusters / Gallium / Isomers / Silicon



- 935 J.-L. Fillaut,* I. de los Rios, D. Masi,
A. Romerosa, F. Zanobini, M. Peruzzini*

Synthesis and Structural Characterization of
(Carbene)ruthenium Complexes Binding Nu-
cleobases

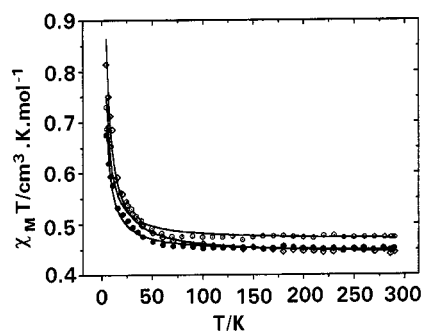


Keywords: Carbenes / Ruthenium / Adenine / Uracil /
X-ray crystallography / Aminophosphanes

- 943 P. S. Mukherjee, T. K. Maji, A. Escuer,*
R. Vicente, J. Ribas, G. Rosair,
F. A. Mautner, N. R. Chaudhuri*

Three Novel End-to-End Single Azido-Bridged
Ferromagnetic Copper(II) Chains: Synthesis,
Crystal Structure, and Magnetic Behavior

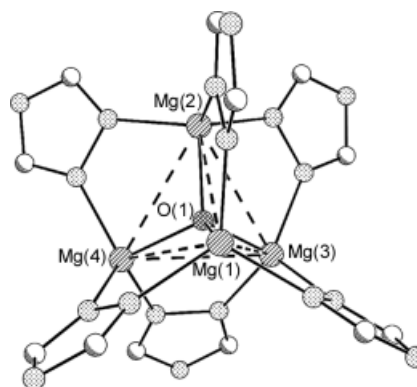
Keywords: Copper / N ligands / Azido bridge /
Magnetic properties



- 950 N. C. Mösch-Zanetti,* M. Ferbinteanu,
J. Magull

A New μ_4 -Oxo Tetranuclear Magnesium
Compound: Coordination Effects of the
Azolato Ligands

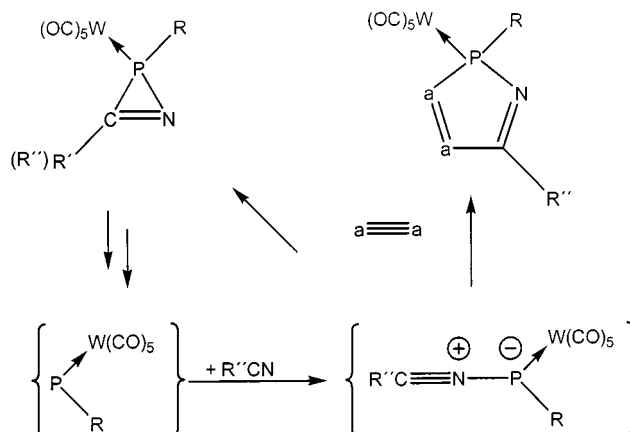
Keywords: N ligands / Magnesium / Coordination
modes



957 R. Streubel,* N. Hoffmann, H.-M. Schiebel,
F. Ruthe, P. G. Jones

Synthesis of the First 2*H*-1,2-Azaphosphole
Complexes with P,C and P,N Ylide Functional
Groups

Keywords: Ylides / Phosphorus heterocycles / Tung-
sten / Cyclization

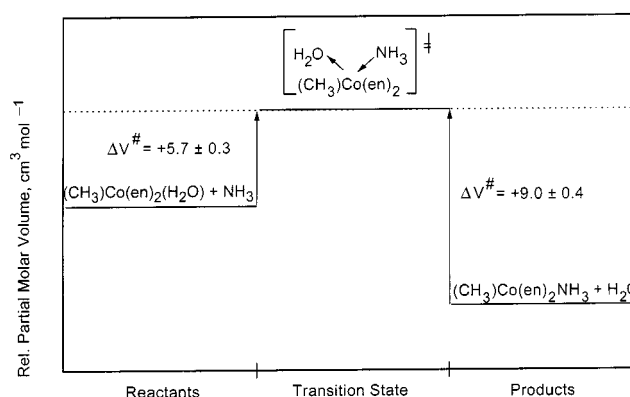


968 B. M. Alzoubi, M. S. A. Hamza,
C. Dücker-Benfer, R. van Eldik*



Equilibrium, Kinetic and Leaving Group Effect
Studies on Ligand Substitution Reactions of a
Simple Model for Coenzyme B₁₂

Keywords: Enzyme models / Equilibrium / Kinetics /
Ligand effects / Leaving group effect /
Volume profile

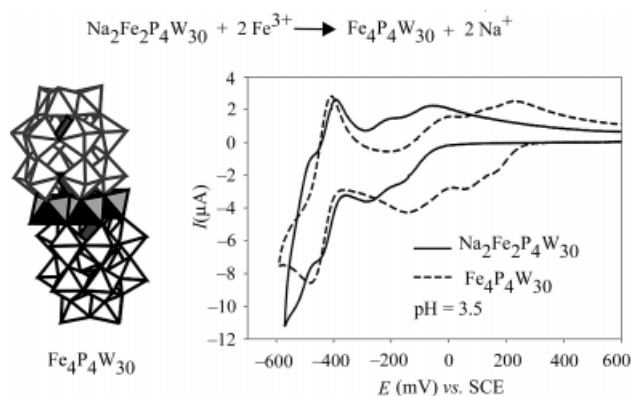


975 L. Ruhlmann, L. Nadjo,* J. Canny,
R. Contant, R. Thouvenot*



Di- and Tetranuclear Dawson-Derived Sandwich
Complexes: Synthesis, Spectroscopic Charac-
terization, and Electrochemical Behavior

Keywords: Polyoxometalates / Sandwich complexes /
Synthesis / NMR spectroscopy / Electro-
chemistry



987 V. Fusi,* A. Llobet,* J. Mahia,
M. Micheloni, P. Paoli, X. Ribas, P. Rossi

A New Cu^I Complex that Mimics the Cresolase
Reaction of Tyrosinase and the Crystal Structure
of its Oxygenated Cu^{II} Complex

Keywords: Bioinorganic chemistry / Copper / Macro-
cyclic ligands / O-O activation / Tyrosinase

