



The editorial staff and the publishers thank all readers, authors, referees, and advertisers for their interest and support over the past year and wish them all a Happy New Year.

COVER PICTURE

The cover picture shows the stable and well-defined metallocene bis(trimethylsilyl)acetylene complexes $\text{Cp}_2\text{M}(\text{L})(\eta^2\text{-Me}_3\text{SiC}_2\text{SiMe}_3)$ ($\text{M} = \text{Ti}$, without L ; $\text{M} = \text{Zr}$, $\text{L} = \text{THF}$, pyridine), of the pentamethylcyclopentadienyl complexes $\text{Cp}^*_2\text{M}(\eta^2\text{-Me}_3\text{SiC}_2\text{SiMe}_3)$ ($\text{M} = \text{Ti}$, Zr) and the ethylene-bis(tetrahydroindenyl) complexes *rac*-(ebthi) $\text{M}(\eta^2\text{-Me}_3\text{SiC}_2\text{SiMe}_3)$ ($\text{M} = \text{Ti}$, Zr). These form an essential basis for recent applications in chemistry. By using different Cp ligands (Cp, Cp^* , ebthi), additional ligands (THF, pyridine), and metals (Ti, Zr), a fine-tuning of several stoichiometric and catalytic reactions was feasible. The latter complexes offer a number of compelling advantages over the widely used other similar metallocene reagents. As a metaphor, this piece of basic research stands “solid as a rock in heavy seas” (in the photo the Baltic Sea nearby Rostock-Warnemünde), alluding to the fact that fundamental preparative organometallic chemistry provides a solid foundation for attractive applications. Details of this chemistry are described in the Microreview by U. Rosenthal et al. on p. 4739 ff.



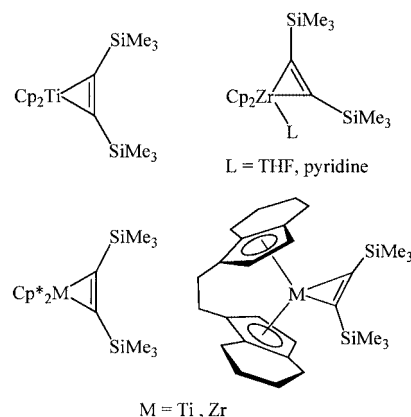
MICROREVIEW

Contents

4739 U. Rosenthal,* V. V. Burlakov, P. Arndt,
W. Baumann, A. Spannenberg, V. B. Shur

Bis(trimethylsilyl)acetylene Complexes of
Titanocenes and Zirconocenes: Their Recent
Chemistry and Reactions with Lewis Acids

Keywords: Lewis acids / Metallocenes / Polymeri-
zation / Titanium / Zirconium

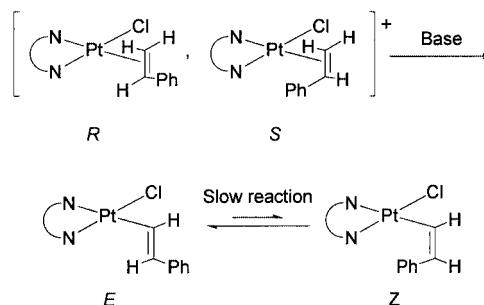


SHORT COMMUNICATIONS

4751 G. Lorusso, G. Boccaletti, N. G. Di Masi,
F. P. Fanizzi, L. Maresca,* G. Natile

Vinyllic Deprotonation in the Coordination
Sphere of Platinum(II): Regioselective Formation
of Alkenyl Complexes

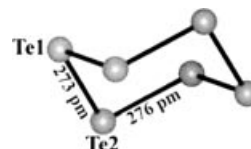
Keywords: Platinum / Alkenes / Brønsted acidity /
Deprotonation reaction / (*E*)/(*Z*) isomeri-
zation



4755 H. J. Deiseroth,* M. Wagener, E. Neumann

(AgI)₂Te₆ and (AgI)₂Se₆: New Composite Mate-
rials with Cyclic Te₆ and Se₆ Molecules Stabi-
lized in the “Solid Solvent” AgI

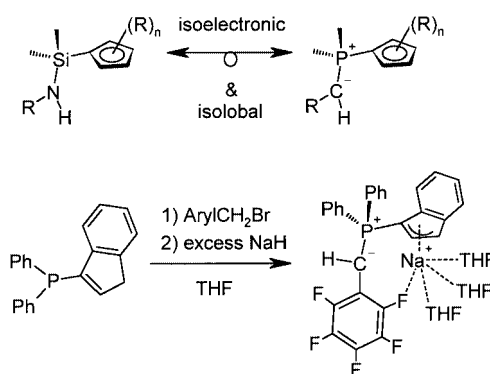
Keywords: Composite materials / Cyclic hexasele-
nium / Cyclic hexatellurium / Solid solvent
silver iodide / Selenium / Tellurium



4759 K. A. Rufanov,* B. Ziemer, M. Hummert,
S. Schutte

Synthesis of (Indenylidene)phosphoranes – A
Novel Class of Ligand Precursors for Main-
Group and Transition Metal Organometallics

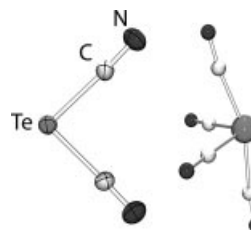
Keywords: Bridging ligands / Constrained geometry
catalysts / Cyclopentadienyl ligands / Iso-
electronic analogues / Isolobal relation-
ship / Phosphoranes / Phosphorus ylides /
Indenyl / Sodium



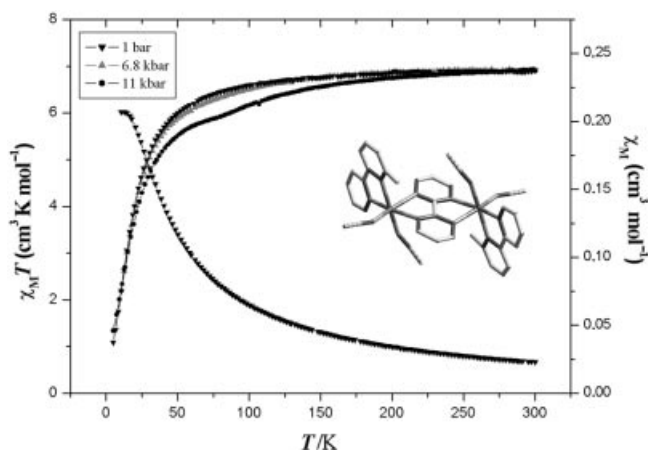
4764 T. M. Klapötke,* B. Krumm,
J. C. Gálvez-Ruiz, H. Nöth, I. Schwab

Experimental and Theoretical Studies of Homo-
leptic Tellurium Cyanides Te(CN)_x: Crystal
Structure of Te(CN)₂

Keywords: Cyanides / Structure elucidation / Tel-
lurium / Ab initio calculations



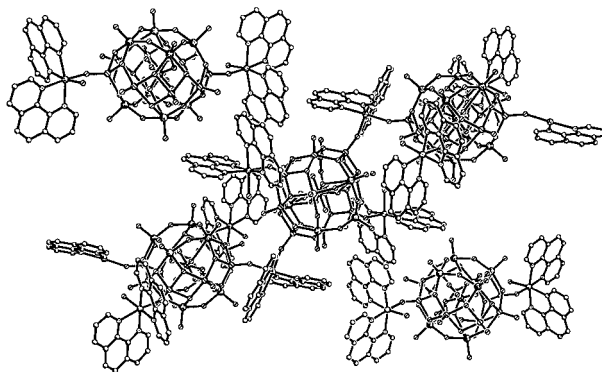
4770

A. B. Gaspar, V. Ksenofontov, V. Martinez,
M. C. Muñoz, J. A. Real, P. Gülich*A Novel Dinuclear Fe^{II} Spin-Crossover Complex Based on a 2,2-Bipyrimidine Bridge Ligand: [Fe(CH₃bipy)(NCS)₂]₂bpy**Keywords:** Spin crossover / Iron(II) bpm-bridged dinuclear compounds / Pressure-induced spin transition / Mössbauer spectroscopy

4774

C.-M. Liu,* J.-L. Luo, D.-Q. Zhang,*
N.-L. Wang, Z.-J. Chen, D.-B. Zhu*

Spin Glass Behaviour in a 1D Mixed Molybdenum-Vanadium Heteropolyoxometalate-Bridged Coordination Polymer

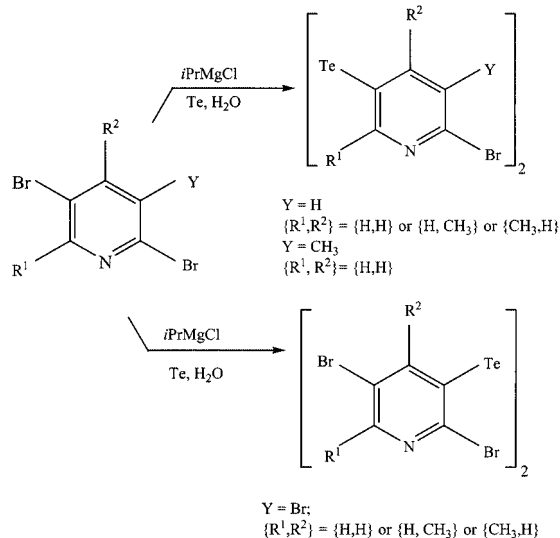
Keywords: Nickel / Hydrothermal synthesis / Polyoxometalate / Crystal structure / Magnetic properties

FULL PAPERS

4781

K. K. Bhasin,* V. Arora, T. M. Klapötke,
M.-J. Crawford

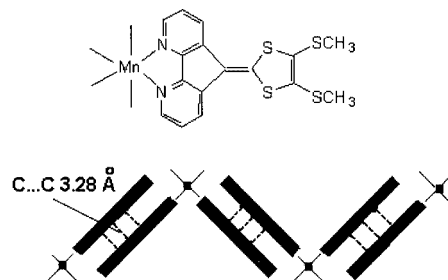
One-Pot Synthesis of Pyridyltellurium Derivatives from a Reaction with Isopropylmagnesium Chloride and X-ray Crystal Structures of Various Pyridyl Ditellurides

**Keywords:** Grignard reaction / Pyridyl telluride / Tellurium / Transmetalation

4789

Q.-Y. Zhu, J. Dai,* D.-X. Jia, L.-H. Cao,
H.-H. Lin

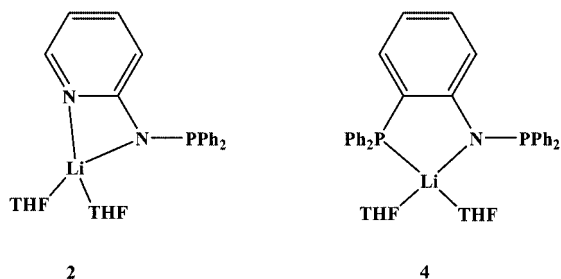
Manganese(II) Complexes Coordinated by a New Derivative of Bipyridine: 9'-[4,5-Bis(methylthio)-1,3-dithiol-2-ylidene]-4',5'-diazfluorene

Keywords: Diazafluorene / Manganese(II) complex / Crystal structure / Catalysis

4795 K. O. Xavier, E. Smolensky, M. Kapon,
S. M. Aucott, J. D. Woollins, M. S. Eisen*

Synthesis and Characterization of Lithium Complexes of 2-(Diphenylphosphanyl)amino)pyridine and *N*,2-Bis(diphenylphosphanyl)benzeneamine

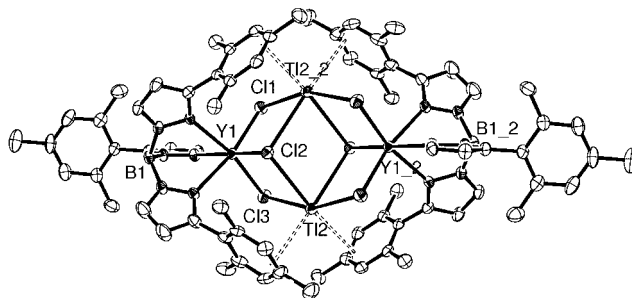
Keywords: Lithium complexes / (Diphenylphosphanyl)amino)pyridine / *N*,2-Bis(diphenylphosphanyl)benzeneamine / Hard-soft interactions / *N,N*-chelation / *N,P*-chelation / X-ray diffraction



4803 F. A. Kunrath, O. L. Casagrande Jr.,*
L. Toupet, J.-F. Carpentier*

Thallium–Arene Contacts in a Rare Yttrium Tris(pyrazolyl)hydroborate “ate” Complex

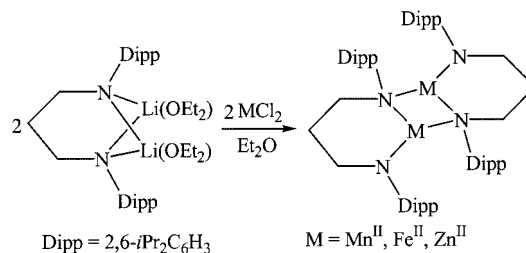
Keywords: Arene ligands / N ligands / Noncovalent interactions / Thallium / Yttrium



4807 J. Chai, H. Zhu, Q. Ma, H. W. Roesky,*
H.-G. Schmidt, M. Noltemeyer

Synthesis and Structural Characterization of Three-Coordinate Mn^{II} , Fe^{II} , and Zn^{II} Complexes Containing a Bulky Diamide Ligand [DippN(CH₂)₃NDipp]^{2−} (Dipp = 2,6-*i*Pr₂C₆H₃)

Keywords: Iron / Manganese / N ligands / Zinc

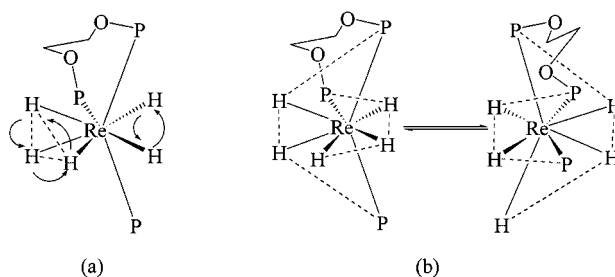


4812 S. Bolaño, J. Bravo,* S. García-Fontán*



Mono- and Dinuclear Rhenium Polyhydride Complexes Bearing the Chelating Ligand 1,2-Bis(dicyclohexylphosphanyloxy)ethane

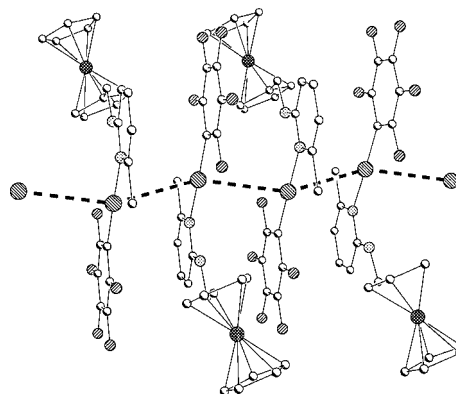
Keywords: Rhenium / Hydrido ligands / P ligands / Fluxionality



4820 E. M. Barranco, O. Crespo, M. C. Gimeno,*
P. G. Jones, A. Laguna

The Role of Secondary Interactions in Group 11 Metal Complexes Containing the Ferrocene Ligand $\text{FcCH}_2\text{NHpyMe}$ in Supramolecular Structures

Keywords: Ferrocenyl derivatives / Group 11 compounds / Supramolecular chemistry / Auophilic attractions / N ligands

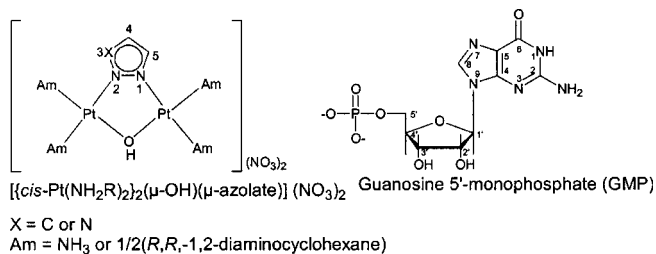


4828

S. Komeda, H. Yamane, M. Chikuma,
J. Reedijk*

A Kinetic Study on the Reactions of Azolato-Bridged Dinuclear Platinum(II) Complexes with Guanosine 5'-Monophosphate

Keywords: Azoles / Platinum complexes / Cisplatin / Antitumor agents

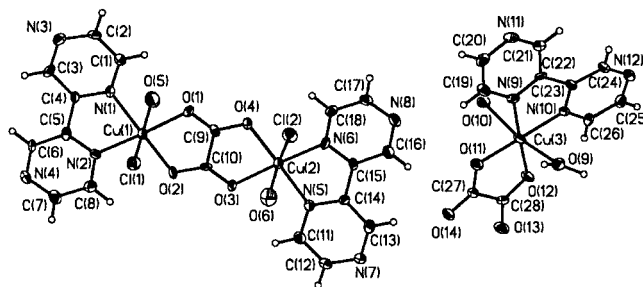


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J. Carranza, H. Grove, J. Sletten,* F. Lloret,
M. Julve,* P. E. Kruger, C. Eller,
D. P. Rillema

Synthesis, X-ray Crystal Structure and Magnetic Properties of Oxalato-Bridged Copper(II) Complexes with 2,3-Bis(2-pyridyl)pyrazine, 2,3-Bis(2-pyridyl)quinoxaline and 2,2'-Bipyrazine as Peripheral Ligands

Keywords: Copper / Magnetic properties / N ligands / Oxalate

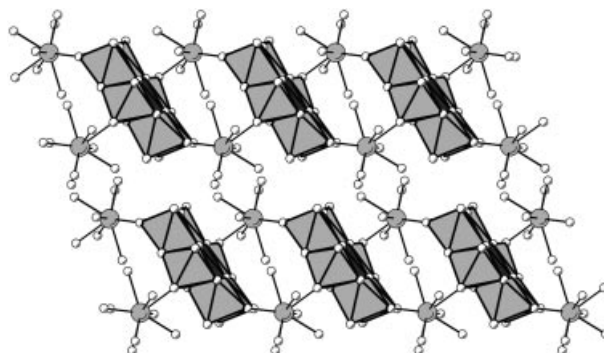


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D. Drewes, E. M. Limanski, B. Krebs*

The Anderson-Type Anion $(TeMo_6O_{24})^{6-}$ – A Multidentate Ligand for Trivalent Rare Earth Cations

Keywords: Polyoxometalates / Molybdenum / Lanthanides / Tellurium / Self-assembly

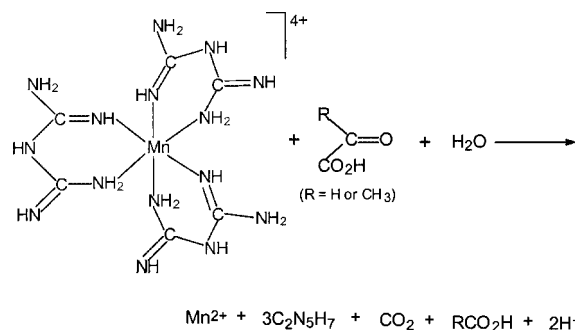


4854

B. B. Dhar, R. Mukherjee,
S. Mukhopadhyay,* R. Banerjee*

Mechanistic Investigation of the Oxidation of Glyoxylic and Pyruvic Acids by Tris(biguanide)-manganese(IV) in Weakly Acidic Aqueous Media

Keywords: Kinetics / Mechanism / Redox reaction / Manganese(IV) / Glyoxylic acid / Pyruvic acid

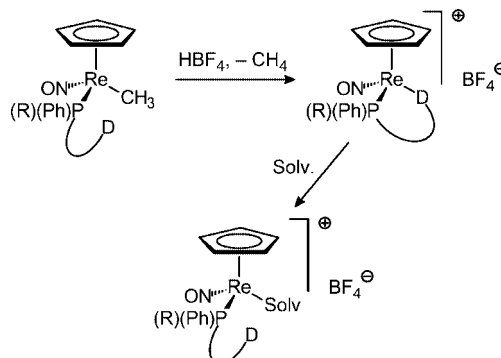


4859

S. Dilsky, W. A. Schenk*

Diastereomeric Halfsandwich Rhenium Complexes Containing Hemilabile Phosphane Ligands

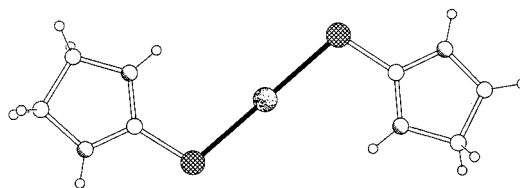
Keywords: Rhenium / Chiral complexes / Chiral P ligands / Hemilabile P ligands / Sandwich complexes



4871 J. Sola,* A. López, R. A. Coxall, W. Clegg*

Hydrogen-Bonded Network and Layered Supramolecular Structures Assembled from ClO_4^- Counterions with Unprecedented Monomeric $[\text{AgL}_2]^+$ and Chain Polymeric $[\text{AgL}_2]_n^{n+}$ Complex Cations (L = Thioamide or Thiourea-Like Ligands)

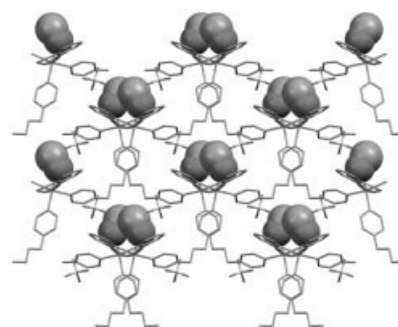
Keywords: X-ray diffraction / Silver / Supramolecular chemistry / S ligands / Bridging ligands



4882 T. Sunahara, S. Onaka,* M. Ito, H. Imai, K. Inoue, T. Ozeki

Construction of Nano-Channels Based on Zinc(II) Pyrazine-2-carboxylate Complexes

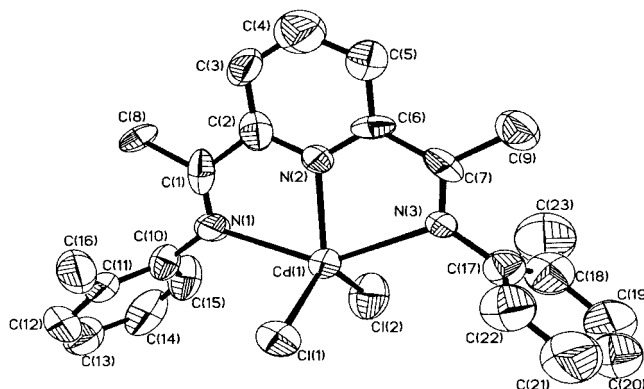
Keywords: Carboxylato ligands / Nanostructures / Self-assembly / Zinc



4891 R.-Q. Fan, D.-S. Zhu, Y. Mu,* G.-H. Li, Y.-L. Yang, Q. Su, S.-H. Feng

Syntheses, Structures, and Luminescent Properties of [Bis(iminoalkyl)pyridine]cadmium(II) Complexes

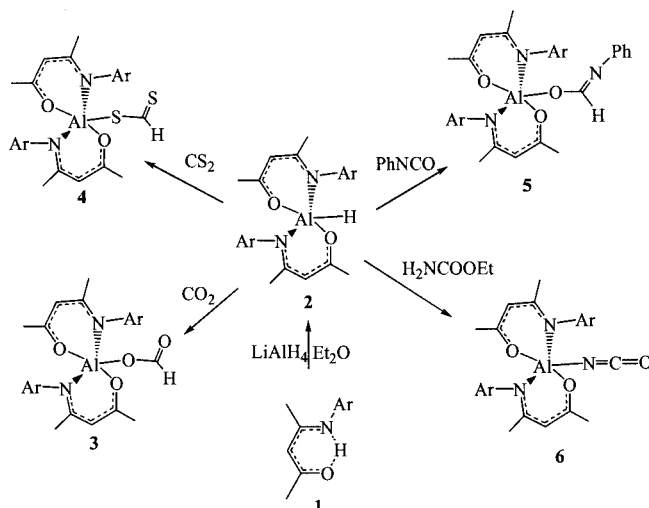
Keywords: Cadmium / Luminescence / N ligands / X-ray diffraction



4898 P.-C. Kuo, I.-C. Chen, J.-C. Chang, M.-T. Lee, C.-H. Hu, C.-H. Hung, H. M. Lee, J.-H. Huang*

Hydroalumination of Carbon Dioxide, Carbon Disulfide, and Phenyl Isocyanate with an Aluminum Ketiminate Compound

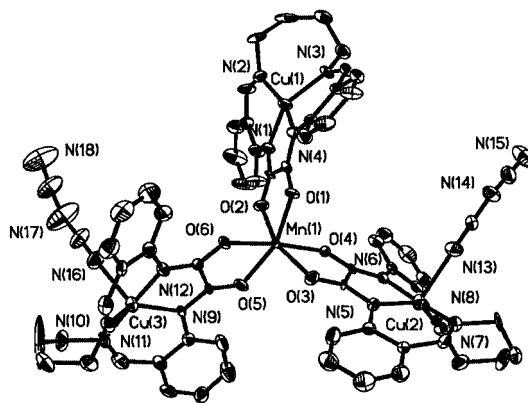
Keywords: Aluminum / Carbon dioxide / Hydrides / Hydroalumination/Insertion / N ligands



4907 S. Wang, G. Yang,* R. Li,
Y. Wang, D. Liao

Syntheses, Structures and Magnetic Properties
of Novel Oxamido-Bridged Tetranuclear Com-
plexes [Cu₃M] (M = Cu, Mn)

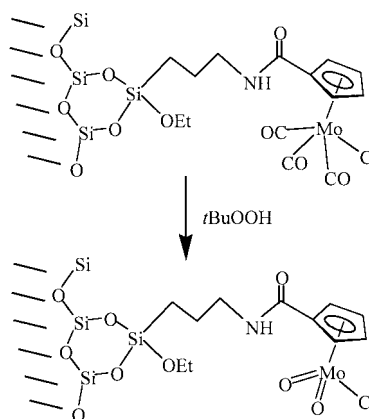
Keywords: Oxamido bridge / Tetranuclear / Macro-
cyclic complex / Magnetic property



4914 M. Abrantes, S. Gago, A. A. Valente,
M. Pillinger, I. S. Gonçalves,* T. M. Santos,
J. Rocha, C. C. Romão*

Incorporation of a (Cyclopentadienyl)molyb-
denum Oxo Complex in MCM-41 and Its Use
as a Catalyst for Olefin Epoxidation

Keywords: Molybdenum / Sandwich complexes /
Mesoporous materials / Supported cata-
lysts / Epoxidation



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