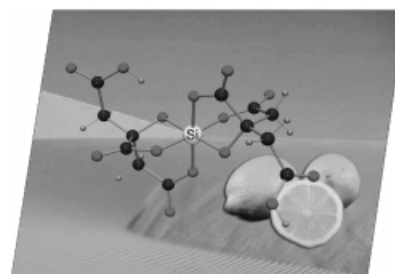


COVER PICTURE

The cover picture shows the structure of the bis[citrato(3–)]-silicate dianion, a hexacoordinate silicon species with two tridentate ligands derived from citric acid. This complex has been synthesized and structurally characterized in context with studies on silica biomineralization. Details are discussed in the Short Communication by R. Tacke et al. on p. 1025 ff.



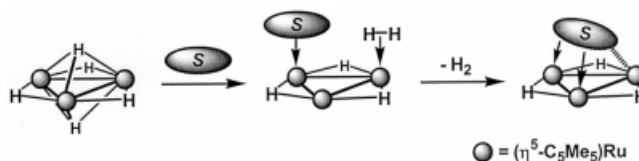
MICROREVIEW

Contents

1009 H. Suzuki

Activation of Organic Substrates on Multi-Metallic Sites of Transition Metal Polyhydride Clusters Having C_5Me_5 Groups as Auxiliary Ligands

Keywords: Cluster compounds / Hydride ligands / Iron / Ruthenium

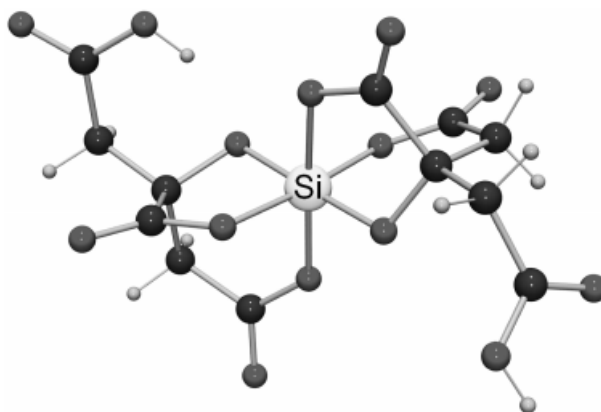


SHORT COMMUNICATIONS

1025 R. Tacke,* M. Penka, F. Popp, I. Richter

Bis[citrato(3-)- O^1, O^3, O^6]silicate: A Dianionic Complex with Hexacoordinate Silicon(IV) and Two Tridentate Dioato(2-)olato(1-) Ligands

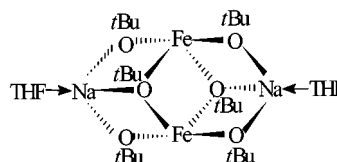
Keywords: Silicon / Silicates / Coordination modes / Biomineralization



1029 Y. K. Gun'ko,* U. Cristmann, V. G. Kessler

Synthesis and Structure of the First Fe^{II} Heterometallic Alkoxide $[(THF)NaFe(OtBu)_3]_2$ – a Possible Precursor for New Materials

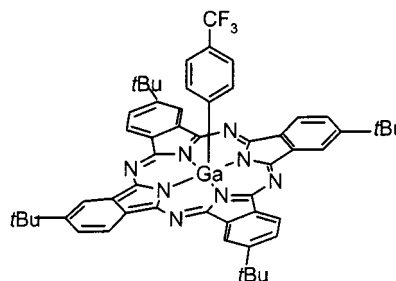
Keywords: Iron / O ligands / Heterometallic complexes / Alkali metals / Materials science



1032 Y. Chen, L. R. Subramanian, M. Barthel, M. Hanack*

Synthesis and Characterization of Soluble Axially Substituted Tetra-(*tert*-butyl)gallium-(III)phthalocyanines

Keywords: Gallium / Nitrogen heterocycles / Non-linear optics / Phthalocyanines

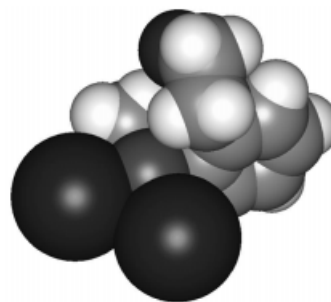


1035 A. C. G. Hotze, Y. Chen, T. W. Hambley, S. Parsons, N. A. Kratochwil, J. A. Parkinson, V. P. Munk, P. J. Sadler*



cis-[PtCl₂(NH₃)₂{2-(2-hydroxyethyl)pyridine}] – an Analogue of the Anticancer Drug AMD473: Unusual Hydrolysis Rates and pK_a Values for the Diaqua Adduct

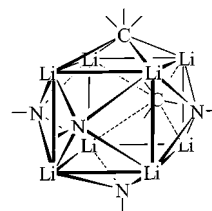
Keywords: Platinum / Antitumor agents / Hydrolysis / Molecular modelling



1040 C. Neumann, A. Schulz, T. Seifert, W. Storch,* M. Vosteen

N,N-Dilithioarylamines as New Building Blocks in Amide Chemistry; the Structure of a Carbanion-Stabilized [C₂N₅Li₁₀]²⁻ Cluster

Keywords: Amines / Tin / Lithium / Clusters / Structure elucidation



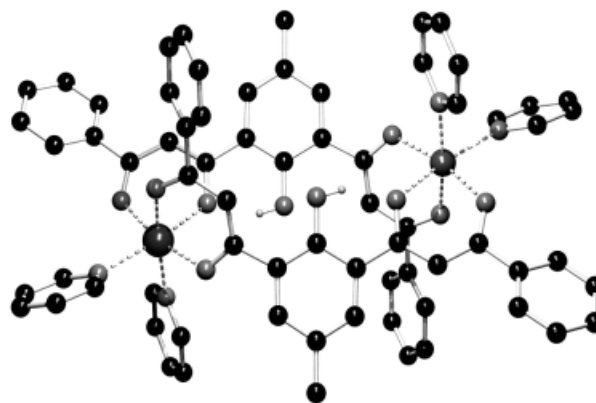
1046

G. Aromí, P. Gamez, O. Roubeau,
P. Carrero-Berzal, H. Kooijman, A. L. Spek,
W. L. Driessen, J. Reedijk*



The First Case of Local *cis* versus *trans* Coordination as the Controlling Factor for the Overall Structure in Dinuclear Assemblies

Keywords: Stereochemistry / Self assembly / O ligands / Manganese / Nickel



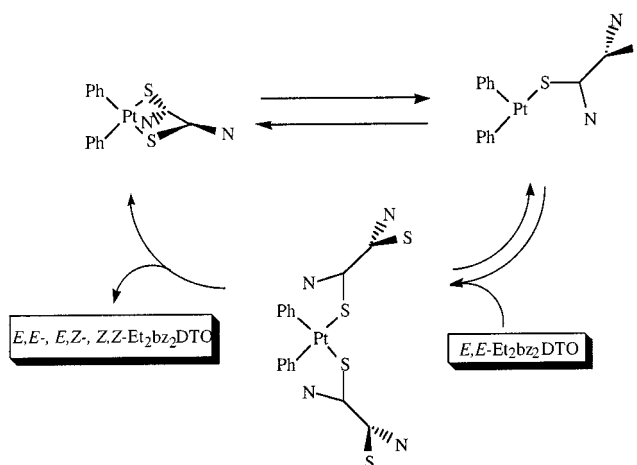
FULL PAPERS

1049

S. Lanza,* F. Nicolò, G. Tresoldi

Synthesis, Stereochemistry and Ligating Properties of Tetraalkyl-Substituted Ethanedithioamides – Evidence for the Lowering of High-Energy Rotation Barriers under the *trans* Influence of Pt-σ-Bonded Aryl Groups

Keywords: C–C hindered rotation / C–N hindered rotation / (*E*)/(*Z*) isomerisation / Tetraalkylethanedithioamides

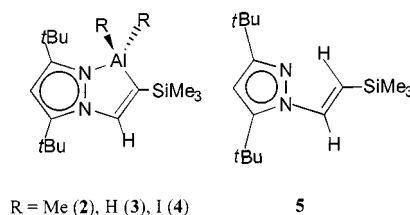


1056

W. Zheng, H. W. Roesky,*
N. C. Mösch-Zanetti, H.-G. Schmidt,
M. Noltemeyer

Synthesis and Characterization of Derivatives of a Chelating Aluminum Dichloride Complex Containing a 3,5-Di-*tert*-butylpyrazolato Unit

Keywords: Aluminum / N ligands / Pyrazolato ligands / Structural elucidation

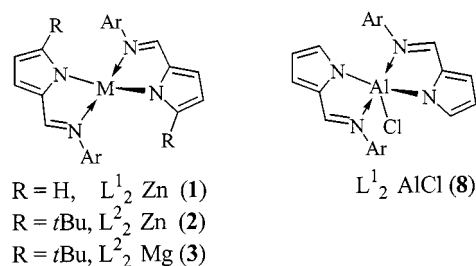


1060

H. Hao, S. Bhandari, Y. Ding,
H. W. Roesky,* J. Magull, H.-G. Schmidt,
M. Noltemeyer, C. Cui

Pyrrolylaldiminato Complexes of Zn, Mg and Al

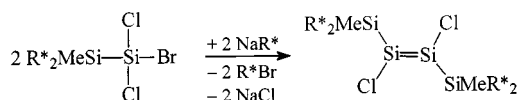
Keywords: Zinc / Magnesium / Aluminum / N ligands



**1066 N. Wiberg,* W. Niedermayer, G. Fischer,
H. Nöth, M. Suter**

Synthesis, Structure and Dehalogenation of the
Disilene $\text{RClSi}=\text{SiClR}$ [$\text{R} = (\text{tBu}_3\text{Si})_2\text{MeSi}$]

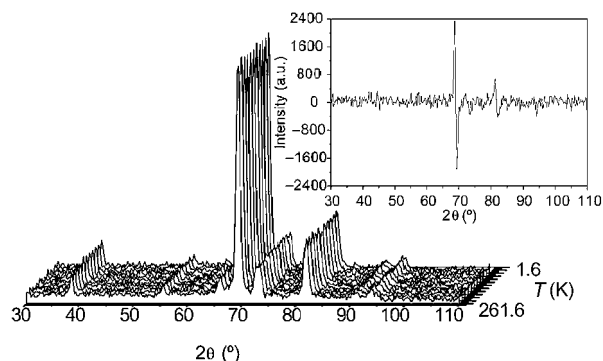
Keywords: Disilene / Disilyne / Silicon / Silylene /
X-ray structure analysis



**1071 A. I. Ruiz,* J. Campo, M. L. López,
J. L. Martínez Peña, C. Pico, M. L. Veiga**

Magnetic Behaviour in the System $\text{La}_{1.33}\text{-Na}_x\text{Mn}_x\text{Ti}_{2-x}\text{O}_6$

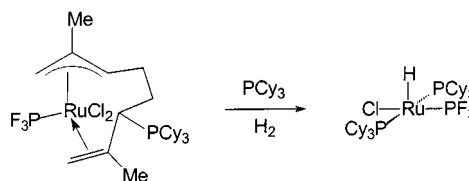
Keywords: Perovskite phases / Neutron diffraction /
Magnetic properties



**1076 H. Werner,* W. Stür, S. Jung,
B. Weberndörfer, J. Wolf**

Preparation of Trifluorophosphaneruthenium-
(II) Complexes from $\eta^3\text{:}\eta^3$ -Cyclooctadienediyl-
ruthenium(IV) Compounds as Precursors

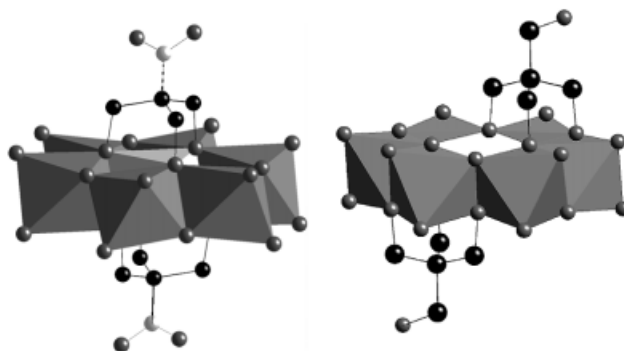
Keywords: Allyl complexes / Carbene complexes /
Hydrido complexes / P ligands / Ruthenium



**1081 B. Hasenknopf, R. Delmont, P. Herson,
P. Gouzerh***

Anderson-Type Heteropolymolybdates Con-
taining Tris(alkoxo) Ligands: Synthesis and
Structural Characterization

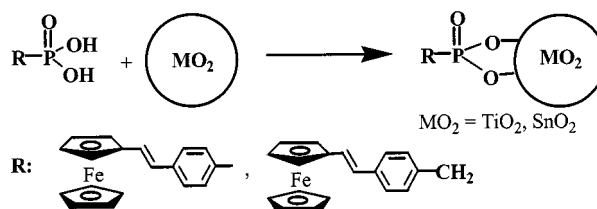
Keywords: Coordination modes / Molybdenum /
Polyoxometalates / Tridentate ligands



**1088 R. Frantz,* J.-O. Durand, G. F. Lanneau,
J.-C. Jumas, J. Olivier-Fourcade, M. Cretin,
M. Persin**

Studies of Phosphonic Acids Containing a
 π -Conjugated Ferrocenyl Unit Grafted on Metal
Oxides – Mössbauer and Electrochemical
Behaviour

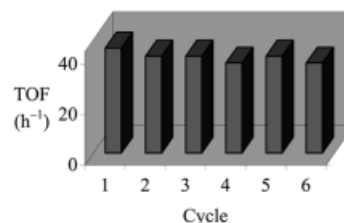
Keywords: Mössbauer spectroscopy / Electrochem-
istry / Phosphorus / Sandwich complexes



1094 M. M. Dell'Anna, P. Mastrorilli, F. Muscio,
C. F. Nobile,* G. P. Suranna

A Polymer-Supported β -Ketoesterate Complex of Palladium as an Efficient, Phosphane-Free, Air-Stable, Recyclable Catalyst for the Heck Reaction

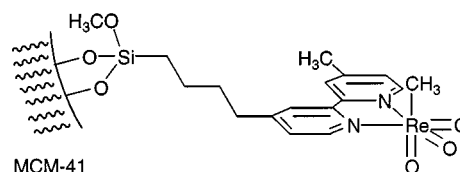
Keywords: Heck reaction / Supported catalysts / Palladium



1100 C. D. Nunes, M. Pillinger, A. A. Valente,
I. S. Gonçalves,* J. Rocha, P. Ferreira,
F. E. Kühn*

Synthesis and Characterization of Methyltrioxorhenium(VII) Immobilized in Bipyridyl-Functionalized Mesoporous Silica

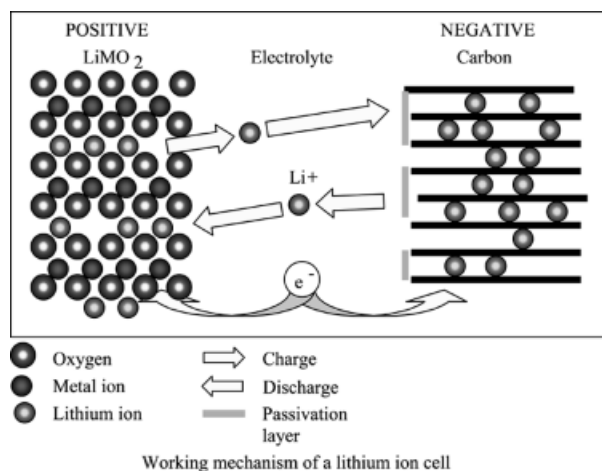
Keywords: Rhenium / Supported catalysts / Mesoporous materials / Lewis base adducts



1108 A. Perner,* K. Holl, D. Ilic,
M. Wohlfahrt-Mehrens

A New MnO_x Cathode Material for Rechargeable Lithium Batteries

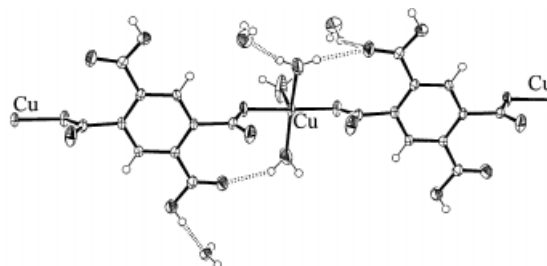
Keywords: Lithium batteries / Manganese oxides / Cathode materials



1115 R. Diniz, H. A. de Abreu, W. B. de Almeida,
M. T. C. Sansiviero, N. G. Fernandes*

X-ray Crystal Structure of Triaquacopper(II) Dihydrogen 1,2,4,5- Benzenetetracarboxylate Trihydrate and Raman Spectra of Cu^{2+} , Co^{2+} , and Fe^{2+} Salts of 1,2,4,5-Benzenetetracarboxylic (Pyromellitic) Acid

Keywords: Hydrogen bonds / X-ray diffraction / Raman spectroscopy / Transition metals

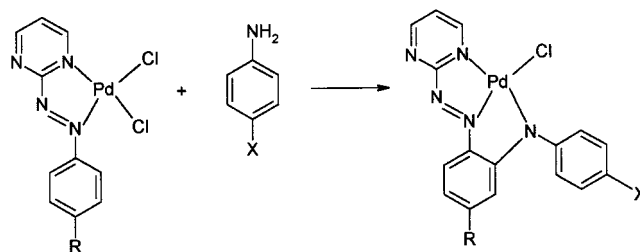


- 1124** P. K. Santra, P. Byabartta,
S. Chattopadhyay, L. R. Falvello,
C. Sinha*



Coupling of Arylamines with Coordinated Aryl-
azopyrimidines in Palladium(II) Complexes

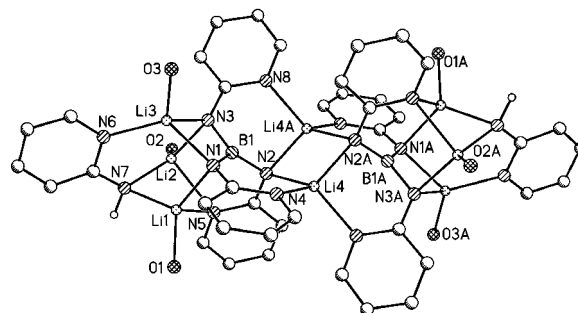
Keywords: Nitrogen heterocycles / Palladium / N
ligands / Aminations / X-ray structure /
EHMO calculation



- 1132** U. Braun, T. Habereeder, H. Nöth,*
H. Piotrowski, M. Warchhold

Triaminoboranes and Their Metallation to
N-Lithiotriaminoboranes

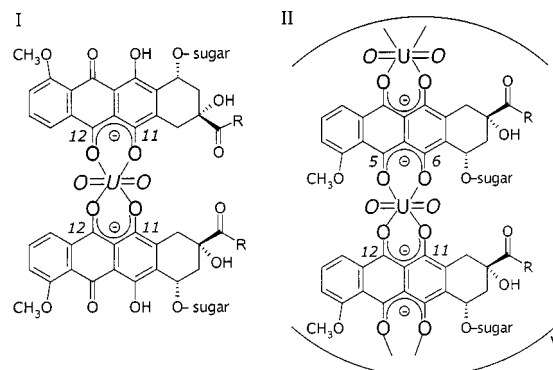
Keywords: Boranes / Deprotonation / Lithium / Nitro-
gen / X-ray diffraction



- 1146** A. Papakyriakou, A. Anagnostopoulou,
A. Garnier-Suillerot, N. Katsaros*

Interaction of Uranyl Ions with Daunorubicin
and Adriamycin

Keywords: Antibiotics / Antitumor agents / Anthracy-
clines / O ligands / Uranium

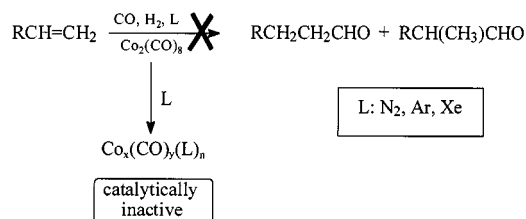


- 1155** M. Bianchi, P. Frediani,* F. Piacenti,
L. Rosi, A. Salvini



Influence of an Additional Gas on the Hydro-
formylation and Related Reactions

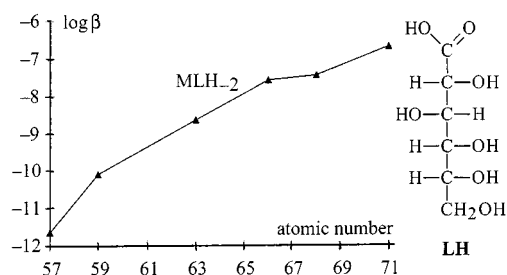
Keywords: Hydroformylation / Carbonyl ligands /
Cobalt / Carbonylation / Dinitrogen
complexes / Argon / Xenon



- 1162** S. Giroux, S. Aury, B. Henry, P. Rubini*

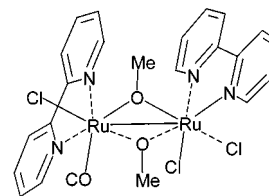
Complexation of Lanthanide(III) Ions with
Polyhydroxy Carboxylic Acids in Aqueous
Solutions

Keywords: Lanthanides / Cations / Acidity /
Complexation / NMR spectroscopy



1169 E. Eskelinen, T.-J. J. Kinnunen,
M. Haukka,* T. A. Pakkanen

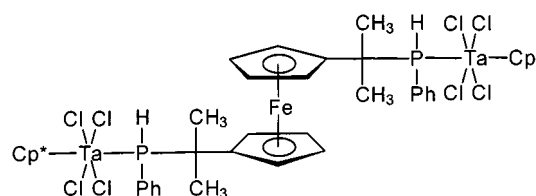
Photochemical Studies of *cis*(CO),*trans*(Cl)-
[Ru(bpy)(CO)₂Cl₂] (bpy = 2,2'-bipyridine):
Ligand Exchange Reactions in Methanol



Keywords: Photochemistry / Ruthenium / Cyclic
voltammetry / N ligands / O ligands

1174 T. Höcher, S. Blaurock, E. Hey-Hawkins*

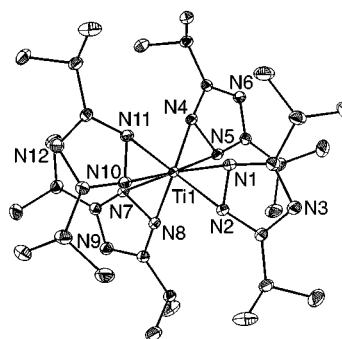
Novel Ferrocene Derivatives with PH-Functiona-
lized Phosphanylalkylcyclopentadienyl Ligands:
Syntheses and Molecular Structures of *rac*-
[Fe{(η⁵-C₅H₄)CMe₂PHR}₂] (R = Ph, Mes) and
rac-[Fe{(η⁵-C₅H₄)CMe₂PHPh(Cp*TaCl₄)₂}]



Keywords: Metallocenes / P ligands / Bridging ligands /
Secondary phosphanes / Tantalum

1181 N. C. Mösch-Zanetti,* M. Hewitt,
T. R. Schneider, J. Magull

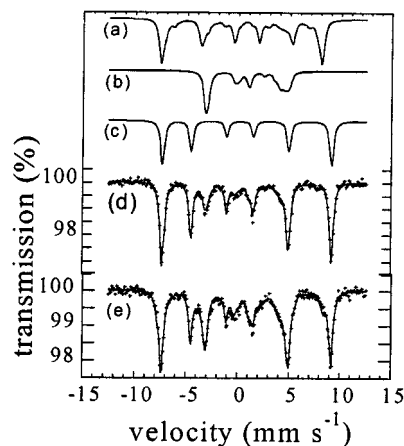
Titanium Complexes Containing Bulky η²-1,2,4-
Triazolato Ligands



Keywords: N ligands / Titanium / Structure elucidation

1186 O. Horner,* C. Jeandey, J.-L. Oddou,
P. Bonville, J.-M. Latour

A Mössbauer Study of [Fe(edta)(O₂)]³⁻ Agrees
with a High-Spin Fe^{III} Peroxo Complex

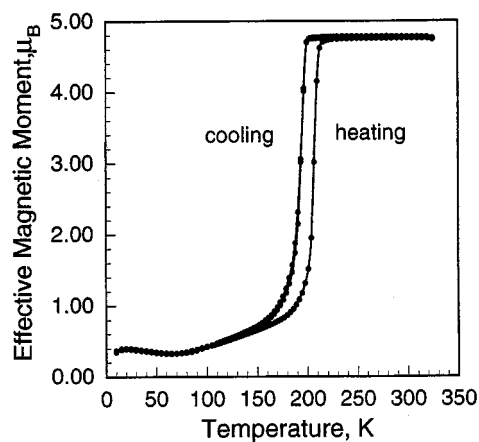


Keywords: Iron / Peroxo ligands / Mössbauer
spectroscopy / N ligands

- 1190** D. L. Reger,* C. A. Little, M. D. Smith,
A. L. Rheingold, K.-C. Lam,
T. L. Concolino, G. J. Long,*
R. P. Hermann, F. Grandjean

Synthetic, Structural, Magnetic, and Mössbauer Spectral Study of $\{\text{Fe}[\text{HC}(\text{3,5-Me}_2\text{pz})_3]_2\}\text{I}_2$ and Its Spin-State Crossover Behavior

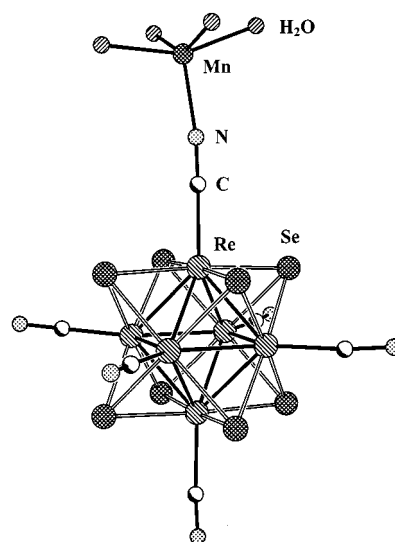
Keywords: Iron / N ligands / Spin crossover / Magnetic properties / Mössbauer spectroscopy



- 1198** S. B. Artemkina, N. G. Naumov,*
A. V. Virovets, O. Oeckler, A. Simon,
S. B. Erenburg, N. V. Bausk, V. E. Fedorov

Two Molecular-Type Complexes of the Octahedral Rhenium(III) Cyanocluster Anion $[\text{Re}_6\text{Se}_8(\text{CN})_6]^{4-}$ with M^{2+} (Mn^{2+} , Ni^{2+})

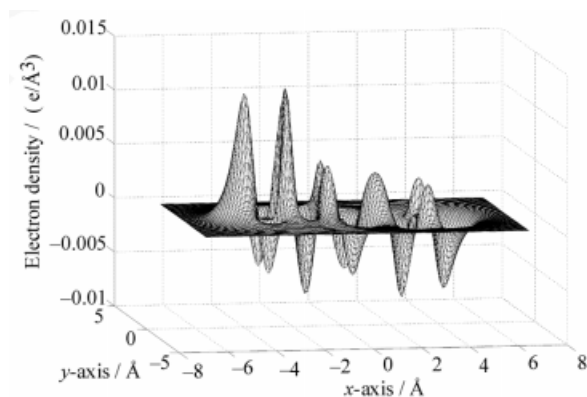
Keywords: Rhenium / Cluster compounds / Structure elucidation / Cyanide ligands / XANES



- 1203** L. Kloo,* J. Rosdahl, P. H. Svensson

On the Intra- and Intermolecular Bonding in Polyiodides

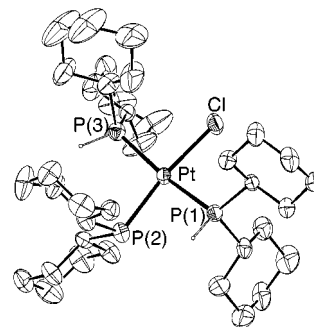
Keywords: Iodine / Polyhalides / Bond theory



1210 P. Mastrorilli,* C. F. Nobile, F. P. Fanizzi,
M. Latronico, C. Hu, U. Englert

(Phosphido)platinum Complexes by Sodium-Promoted Reaction of *cis*-PtCl₂(PHCy₂)₂ – Synthesis and Crystal Structure of [*trans*-Pt(PCy₂H)₂(PCy₂)Cl], a Rare Example of a Terminal (Phosphido)platinum(II) Complex

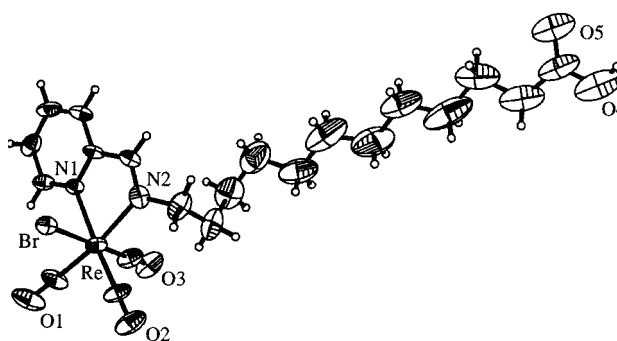
Keywords: Platinum / P ligands / Terminal phosphides / Hydrides / Small ring systems



1219 C. M. Jung, W. Kraus, P. Leibnitz,
H.-J. Pietzsch, J. Kropp, H. Spies*

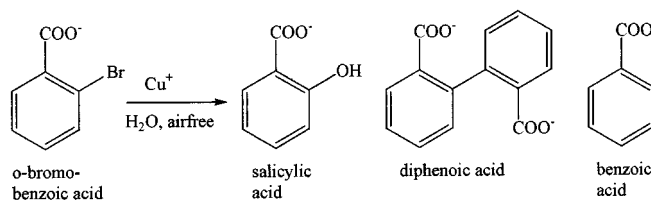
Syntheses and First Crystal Structures of Rhenium Complexes Derived from ω -Functionalized Fatty Acids as Model Compounds of Technetium Tracers for Myocardial Metabolism Imaging

Keywords: Rhenium / Technetium / Fatty acids / Drug research / Radiopharmaceuticals



1226 M. Saphier,* A. Masarwa, H. Cohen,
D. Meyerstein

Copper(I) as a Homogeneous Catalyst for the Ullmann Reaction in Aqueous Solutions – The Transformation of 2-Bromobenzoate into Salicylate



Keywords: Copper(I) / Aromatic compounds / Catalysis / Ullmann reaction

1235 I. Cassidy, M. Garner, A. R. Kennedy,
G. B. S. Potts, J. Reglinski,* P. A. Slavin,
M. D. Spicer*

The Preparation and Structures of Group 12 (Zn, Cd, Hg) Complexes of the Soft Tripodal Ligand Hydrotris(methimazoly)borate (Tm)

Keywords: Tripodal ligands / N ligands / S ligands / Group 12 complexes

