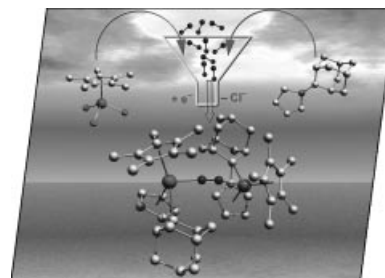


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COVER PICTURE

The cover picture shows a high-yield, one-step synthesis of end-on bridged dinuclear titanium–dinitrogen complexes using Cp^*TiCl_3 , N_2 and pentafulvenes under reductive conditions. The Cp^* as well as the fulvene ligands are arranged in a stereoregular manner along the $\text{Ti}-\text{N}\equiv\text{N}-\text{Ti}$ axis, both in the solid state as well as in solution, as proved by extensive NMR measurements. Details are discussed in the article by R. Beckhaus et al. on p. 1003ff. In a similar way a nitrogen-free, low-coordinated titanium complex is obtained by using sterically demanding benzofulvenes. We thank the Fonds der Chemischen Industrie for a kindly granted scholarship (A. S.).



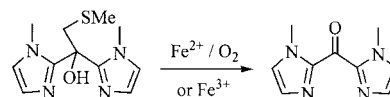
SHORT COMMUNICATION

Contents

999 Laurent Bénisvy, J.-C. Chottard, J. Marrot,
 Y. Li*

Iron-Assisted Oxidative Radical C–C Bond
 Cleavage

Keywords: Iron / Multidentate ligand / Imidazole
 ligand / Thioether ligand / Radical frag-
 mentation / X-ray diffraction



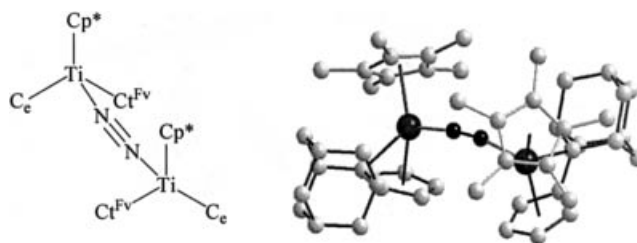
FULL PAPERS

- 1003** A. Scherer, K. Kollak, A. Lützen,
M. Friedemann, D. Haase, W. Saak,
R. Beckhaus*



Low-Valent Titanium–Pentafulvene Complexes
– Formation of Dinuclear Titanium–Nitrogen
Complexes

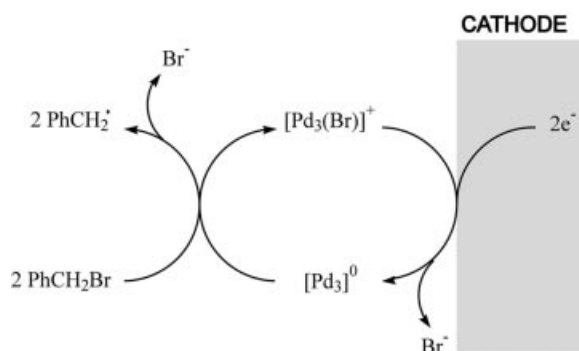
Keywords: Titanium / Bridging ligands / Nitrogen /
Metallocenes / Fulvene ligands



- 1011** D. Lucas,* F. Lemaître, B. Gallego-Gómez,
C. Cugnet, P. Richard, Y. Mugnier,
P. D. Harvey*

New Insights into the Stoichiometric and Catalytic
Reactivity of Unsaturated $\text{Pd}_3(\text{dppm})_3\text{-CO}^n+$
Clusters ($n = 0, 1$) Towards Halocarbons
– First Evidence for Inorganic By-Products

Keywords: Palladium cluster / Alkyl halide / Re-
duction / Electrocatalysis / Alkyl radicals

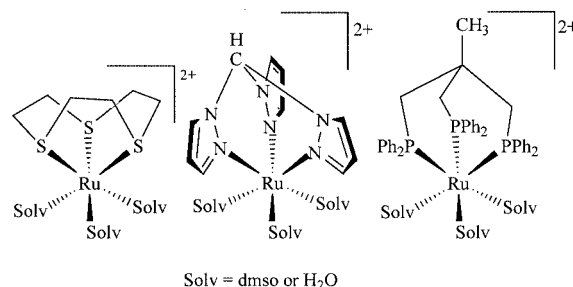


- 1019** E. Iengo, E. Zangrando, E. Baiutti,
F. Munini, E. Alessio*



Synthesis and Structural and Spectroscopic
Characterization of New Ru^{II} -dmsO Precursors
with Face-Capping Ligands for Use in Self-
Assembly Reactions

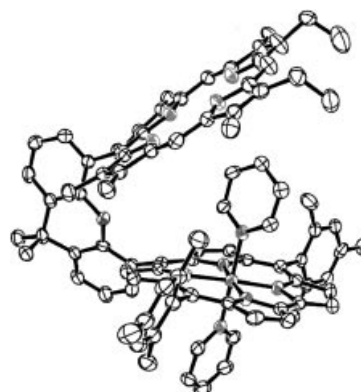
Keywords: Facial coordination / Ruthenium / Self-
assembly / Tridentate ligands / Tripodal
ligands



- 1032** J.-M. Barbe,* F. Burdet, E. Espinosa,
R. Guillard*

Synthesis and Physicochemical Characterization
of Bis(macrocycles) Involving a Porphyrin and a
meso-Substituted Corrole – X-ray Crystal
Structure of a [(Free-base porphyrin)–corrole]-
bis(pyridine)cobalt Complex

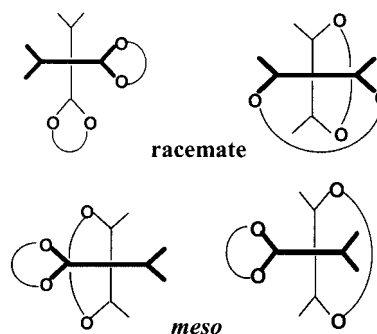
Keywords: Bis(macrocycles) / Porphyrins / Corroles /
Synthetic methods / X-ray diffraction



- 1042** A. Uslu,* S. J. Coles, D. B. Davies,
R. J. Eaton, M. B. Hursthouse, A. Kılıç,
R. A. Shaw

Stereoisomerism in Pentaerythritol-Bridged
Cyclotriphosphazene Tri-Spiranes: Spiro and
Ansa 1,3-Propanedioldioxy Disubstituted
Derivatives

Keywords: Cyclotriphosphazene derivatives / Tri-
spiranes

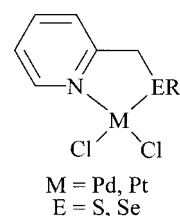


- 1048** R. C. Jones, R. L. Madden, B. W. Skelton,
V.-A. Tolhurst,* A. H. White,
A. M. Williams, A. J. Wilson, B. F. Yates



Solution, Structural and Catalytic Studies of
Neutral MCl_2 ($M = Pd, Pt$) Complexes of the
N/E Mixed-Donor Ligands 2-($RECH_2$) C_5H_4N
($RE = MeS, PhS, MeSe$)

Keywords: Palladium / Platinum / N,S ligands /
Homogeneous catalysis / Fluxional processes

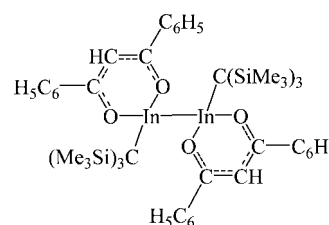


$M = Pd, Pt$
 $E = S, Se$

- 1056** W. Uhl,* A. El-Hamdan, A. Lawerenz

Investigations into the Reactivity of Organoel-
ement Gallium and Indium Subhalides – Synthe-
ses of Digallium and Diindium Acetylacetonates

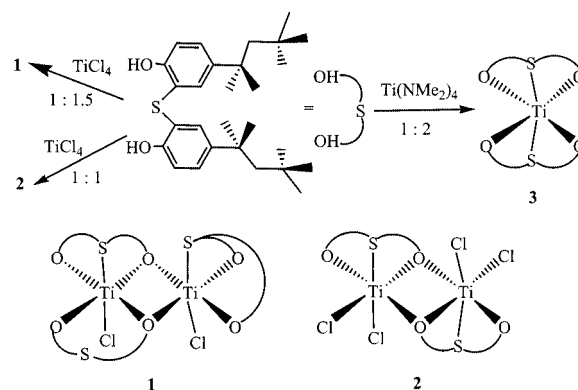
Keywords: Gallium / Indium / Subvalent compounds /
Acetylacetonate ligands



- 1063** Z. Janas,* L. B. Jerzykiewicz,
K. Przybylak, P. Sobota, K. Szczegot,
D. Wiśniewska

Titanium Complexes of Chelating, Dianionic
O,S-Bisphenolato Ligands: Syntheses, Charac-
terisation, and Catalytic Activity

Keywords: Polymerization / Titanium / O,S ligands

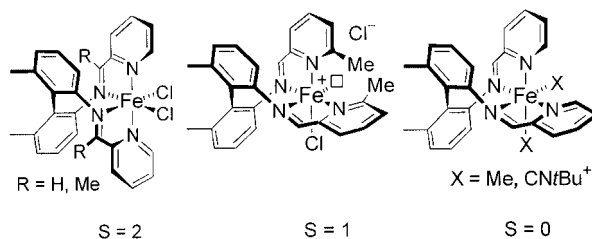


- 1071** C. Vedder, F. Schaper, H.-H. Brintzinger,*
M. Kettunen, S. Babik, G. Fink



Chiral Iron(II) and Cobalt(II) Complexes with
Biphenyl-Bridged Bis(pyridylimine) Ligands –
Syntheses, Structures and Reactivities

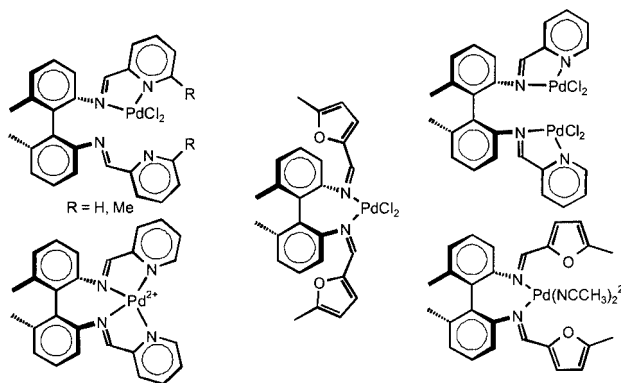
Keywords: Iron(II) / Cobalt(II) / Bianiline / Pyridyl-
imine



1081 M. Kettunen, C. Vedder, H.-H. Brintzinger,
I. Mutikainen, M. Leskelä, T. Repo*

Alternative Coordination Modes in Palladium(II)-
Diimino-Bispyridine Complexes with an Axially
Chiral Biphenyl Backbone

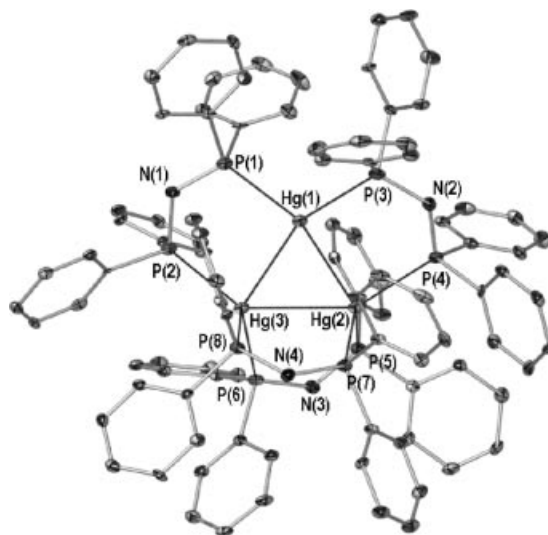
Keywords: Chiral biaryl ligands / Palladium imino
complexes / Binuclear complexes



1090 M. L. Cole, G. B. Deacon,* P. C. Junk,
K. Konstas, P. W. Roesky

Novel Mercury Phosphanylamides

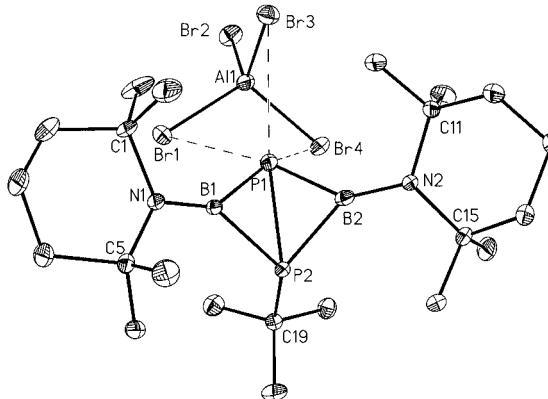
Keywords: Mercury / Redox transmetalation /
Phosphanylamide ligands / Subvalent com-
plexes / P Donors



1099 K. Knabel, T. M. Klapötke, H. Nöth,*
R. T. Paine, I. Schwab

A Bicyclic P–P-Bridged 1,3,2,4-Diphosphadi-
boretane Cation and an Imino(phosphinidene)-
borane–AlBr₃ Adduct

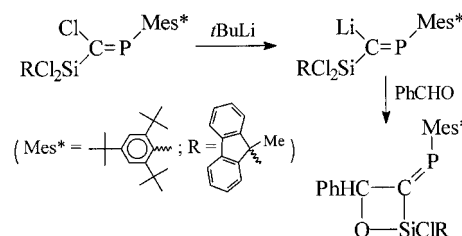
Keywords: 1,3-Di(*tert*-butyl)-2,4-bis(2,2,6,6-tetrameth-
ylpiperidino)-1,3,2,4-diphosphadibor-
etane / 1-*tert*-Butyl-2,4-bis(2,2,6,6-tetra-
methylpiperidino)-1,3-diphospha-2,4-di-
borabicyclo[1.1.0]butane cation / 2,2,6,6-
Tetramethylpiperidino-*tert*-butylphosphin-
ideneborane–AlBr₃ adduct / X-ray struc-
tures / ab initio calculations



- 1109** G. C. Nemes, H. Ranaivonjatovo,
J. Escudié,* I. Silaghi-Dumitrescu,
L. Silaghi-Dumitrescu, H. Gornitzka

A Surprisingly Stable 1-(Chlorosilyl)-2-phosphaethenyllithium Compound, $\text{RCl}_2\text{SiC}(\text{Li})=\text{PMes}^*$

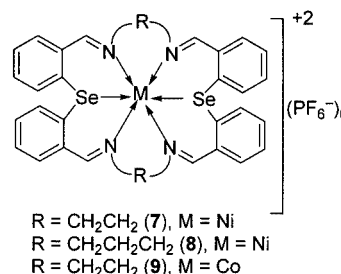
Keywords: Phosphaalkenes / (Chlorosilyl)phosphaethenyllithium / Chlorophosphasilallene / Molecular modelling / Cation- π interaction



- 1114** A. Panda, S. C. Menon, H. B. Singh,*
C. P. Morley, R. Bachman, T. M. Cocker,
R. J. Butcher

Synthesis, Characterization and Coordination Chemistry of Some Selenium-Containing Macrocyclic Schiff Bases

Keywords: Macrocycles / Seleno-aza macrocycles / Palladium / Nickel / Cobalt

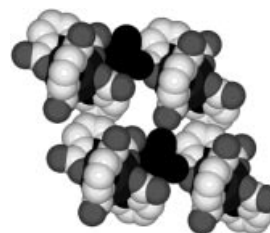


- 1127** P. A. Brayshaw, A. K. Hall,
W. T. A. Harrison, J. M. Harrowfield,*
D. Pearce, T. M. Shand, B. W. Skelton,
C. R. Whitaker, A. H. White



Structural Studies of Rare Earth/Transition Metal Complex Ion Systems as a Basis for Understanding Their Thermal Decomposition to Mixed Oxides

Keywords: Dipicolinates / Rare earths / Crystal structures / Mixed oxides / Thermochemistry



- 1142** L. Vander Elst, I. Raynal, M. Port,
P. Tisnès, R. N. Muller*

In vitro Relaxometric and Luminescence Characterization of P792 (Gadomelitol, Vista-rem®), an Efficient and Rapid Clearance Blood Pool MRI Contrast Agent

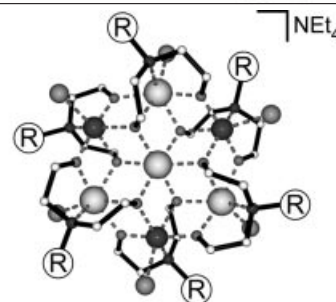
Keywords: P792 / MRI contrast agent / NMRD / Luminescence / Oxygen-17 relaxometry



- 1149** R. W. Saalfrank,* T. Nakajima, N. Mooren,
A. Scheurer, H. Maid, F. Hampel,
C. Trieflinger, J. Daub

Syntheses and Properties of Metal-Centered Mixed-Valent $[\text{NEt}_4]\{\text{Mn}^{\text{II}}\text{C}[\text{Mn}^{\text{II}}_3\text{Mn}^{\text{III}}_3\text{Cl}_6(\text{L})_6]\}$ Manganese Wheels

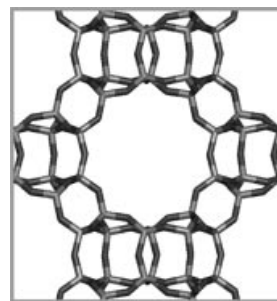
Keywords: Manganese clusters / Self-assembly / Mixed valency / X-ray diffraction / Cyclic voltammetry



1154 G. Kořová, S. Ernst, M. Hartmann,
J. Čejka*

Incorporation of Aluminium and Iron into the
Zeolite MCM-58

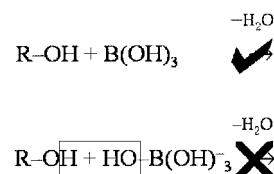
Keywords: Acidity / Aluminum / Iron / Kinetics /
Zeolites



1162 M. Rietjens,* P. A. Steenbergen

Crosslinking Mechanism of Boric Acid with
Diols Revisited

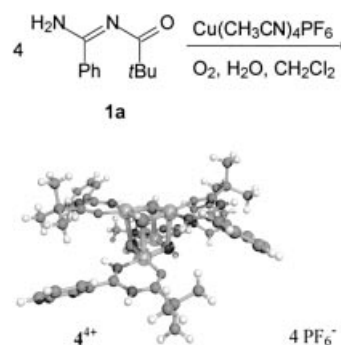
Keywords: Boric acid / Borate / Diols / Guaran /
Crosslinking / Rheology



1175 J. K. Eberhardt, T. Glaser,*
R.-D. Hoffmann, R. Fröhlich,
E.-U. Würthwein*

A Tetranuclear Hydroxo-Bridged Copper(II)
Complex with Primary *N*-Acylamidines as Li-
gands: Preparation, Structural and Magnetic
Characterisation

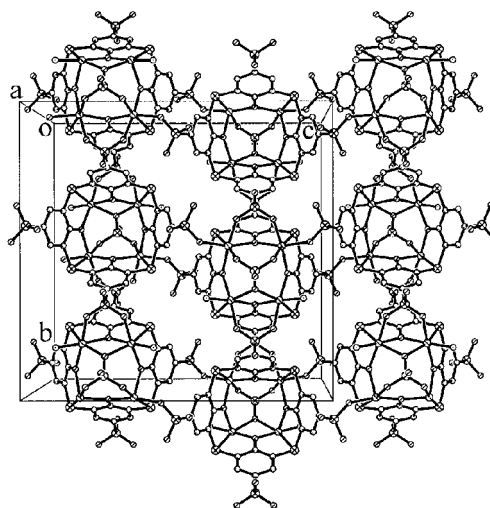
Keywords: *N*-Acylamidines / Copper(II) complexes /
Magnetic susceptibility / N ligand /
O ligand



1182 D. Yuan, Y. Xu, M. Hong,* W. Bi, Y. Zhou,
X. Li

A Novel Two-Dimensional Layer Structure Built
from a Tetracobalt(II)-*p*-sulfonatothiacalix[4]-
arene Cluster Unit

Keywords: *p*-Sulfonatothiacalix[4]arene / Cobalt /
Magnetic properties / Coordination poly-
mer



CORRECTION

1189 M. A. Carreon, V. V. Gulianti*

Ordered Meso- and Macroporous Binary and
Mixed Metal Oxides

Keywords: Mesoporous / Macroporous / Transition
metal oxides / Catalytic applications