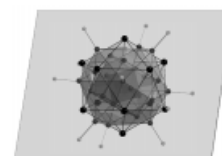


COVER PICTURE

The cover picture shows the penetrating polyhedra of copper and tellurium atoms that are found in the molecular structure of the mixed-valence copper telluride cluster $[\text{Cu}_{26}\text{Te}_{12}(\text{PEt}_2\text{Ph})_{12}]$ (copper atoms: blue; tellurium atoms: black; phosphorus atoms: green; organic groups omitted). Polyhedral substructures are



very often found in the cluster frameworks of small or middle-sized, phosphane-ligated copper chalcogenide clusters, since highly symmetric atomic arrangements play a key role in the formation of the most stable isomers. Another approach to meet the symmetry requirements is realized by large $[\text{Cu}_{2n}\text{E}_n(\text{PR}_3)_m]$ clusters ($\text{E} = \text{S}, \text{Se}, \text{Te}$) that adopt layer-type molecular structures when $2n$ is 70 or more. Hence, they denote the transition to the structural features of binary copper chalcogenide phases. The structural properties of copper sulfide, copper selenide and copper telluride clusters that were developed from single-crystal X-ray analyses, as well as the results of further physico-chemical or quantum-chemical investigations on these substances, are comprehensively discussed in the microreview by D. Fenske et al.

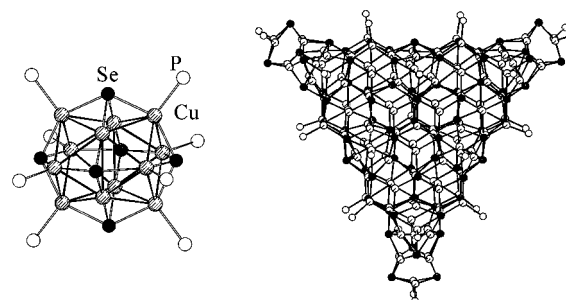
MICROREVIEW

Contents

279 S. Dehnen, A. Eichhöfer, D. Fenske*

Chalcogen-Bridged Copper Clusters

Keywords: Copper / Sulfur / Selenium / Tellurium / Clusters

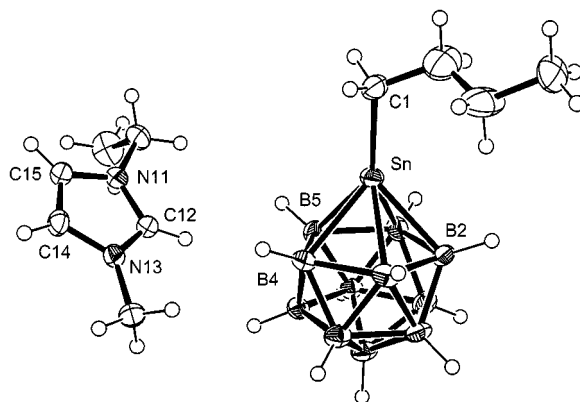


SHORT COMMUNICATIONS

319 B. Ronig, I. Pantenburg, L. Wesemann*

Melttable Stannaborate Salts

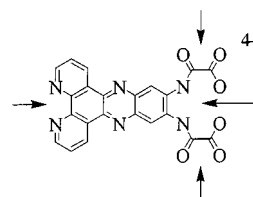
Keywords: Boranes / Ionic liquids / Tin / Cations



323 K. E. Berg, Y. Pellegrin, G. Blondin,
X. Ottenwaelder, Y. Journaux,
M. M. Canovas, T. Mallah, S. Parsons,
A. Aukauloo*

A Unique Heterotopic Ligand for Sequential
Synthesis of Polymetallic Complexes

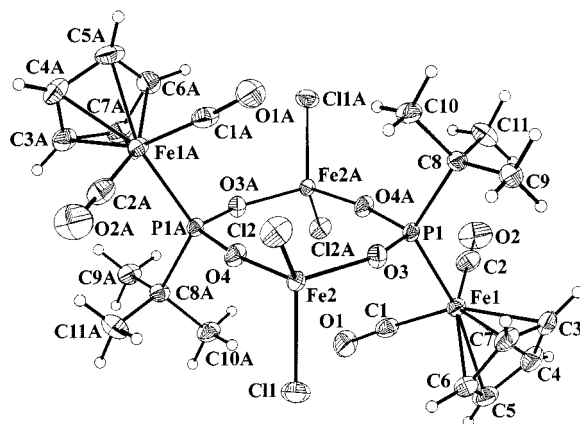
Keywords: Copper / Heterotopic ligands / Iron /
Metalations / Oxamate



327 I.-P. Lorenz,* M. Maier, K. Polborn

New Organometalated Phosphinato-*O,O'* Li-
gands in the Planar Eight-Membered Ring
[Cp(CO)₂Fe]tBuPO₂FeCl₂]₂

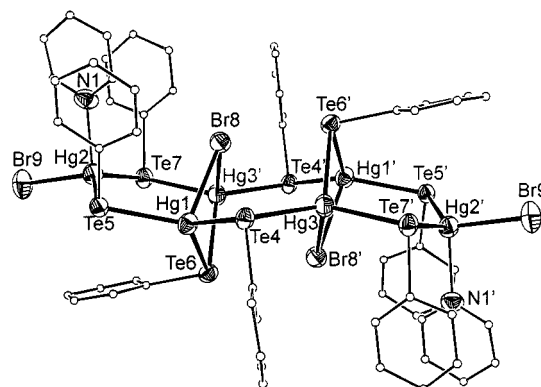
Keywords: Iron / Heterocycles / O ligands / Oxi-
dations / Self-assembly



331 E. Schulz Lang,* R. A. Zan, C. C. Gatto,
R. A. Burrow, E. M. Vázquez-López

Syntheses and Structures of New Tellurium–
Mercury Clusters with Twelve- and Six-Mem-
bered Rings

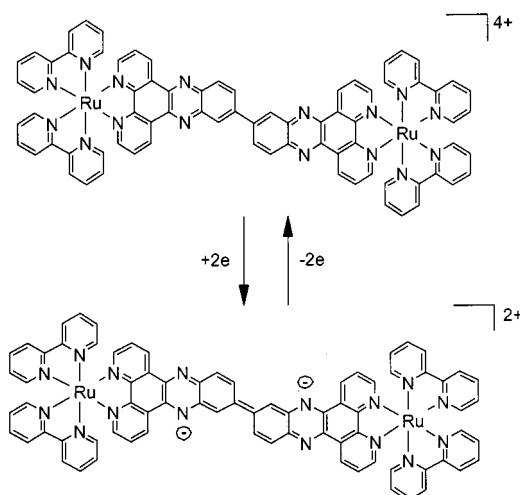
Keywords: Tellurium / Mercury / Cluster
compounds / Metallacycles



335 M. Staffilani, P. Belser,* L. De Cola,
F. Hartl*

Redox Control of Conformation and Luminescence of a Dinuclear Ruthenium(II) Complex with a Bis-dipyridophenazine Bridging Ligand

Keywords: Ruthenium / Spectroelectrochemistry / Redox control / Cyclic voltammetry / Electron transfer / Bridging ligands

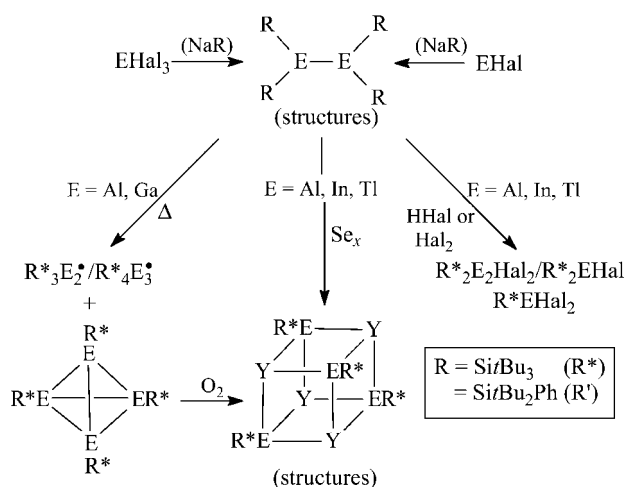


FULL PAPERS

341 N. Wiberg,* T. Blank, K. Amelunxen,
H. Nöth, H. Schnöckel, E. Baum, A. Purath,
D. Fenske

Ditrirelanes $(R_3Si)_2E-E(SiR_3)_2$ and Heterocubanes $(R_3Si)_4E_4Y_4$ ($R_3Si = tBu_3Si, tBu_2PhSi$; $E = Al, Ga, In, Tl$; $Y = O, Se$)

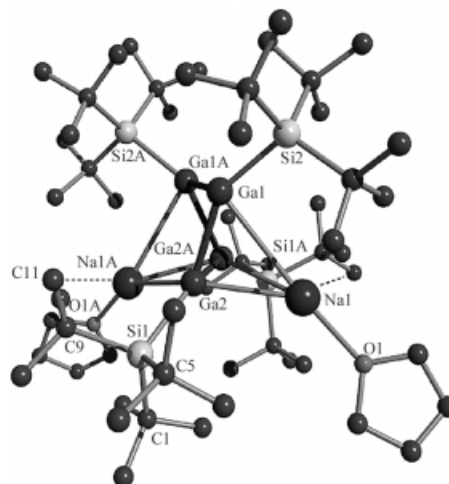
Keywords: Aluminium / Ditrirelanes / Gallium / Heterocubanes / Indium / Silicon / Thallium



351 N. Wiberg,* T. Blank, M. Westerhausen,
S. Schneiderbauer, H. Schnöckel,
I. Krossing, A. Schnepf

Disodium Tetrasupersilyltetragallanedide $Na_2Ga_4R^*_4 \cdot 2THF$ ($R^* = Si/tBu_3$) – Preparation of a Novel Gallium Cluster Compound via Dichlorodisupersilyldigallane $R^*_2Ga_2Cl_2$

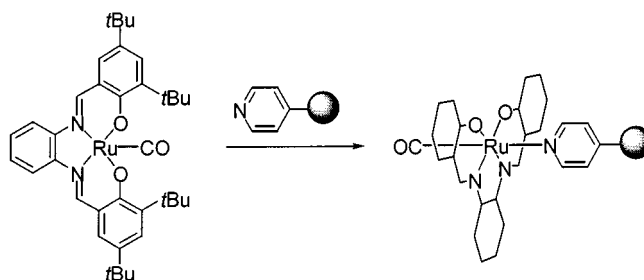
Keywords: Clusters / Gallium / Oligogallanes / Silicon / Sodium



357 K. Chichak, U. Jacquemard, N. R. Branda*

The Construction of (Salophen)ruthenium(II) Assemblies Using Axial Coordination

Keywords: Axial coordination / N,O ligands / Ruthenium / Schiff bases / Supramolecular chemistry

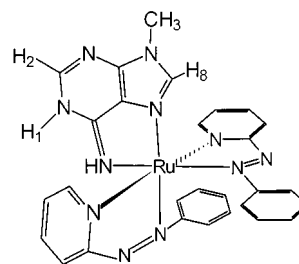


369 A. C. G. Hotze, M. E. T. Broekhuisen,
A. H. Velders, K. van der Schilden,
J. G. Haasnoot, J. Reedijk*



Unusual Coordination of the Rare Neutral Imine Tautomer of 9-Methyladenine Chelating in the N6,N7-Mode to Ruthenium(II) Complexes

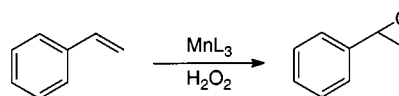
Keywords: Ruthenium / Cytotoxicity / NMR spectroscopy / DNA model bases



377 M. Hoogenraad, K. Ramkisoensing,
S. Gorter, W. L. Driessen, E. Bouwman,
J. G. Haasnoot, J. Reedijk,* T. Mahabiersing,
F. Hartl

Electrochemical and Catalytic Properties of Novel Manganese(III) Complexes with Substituted 2-(2'-Hydroxyphenyl)oxazoline Ligands – X-ray Structures of Tris[5-methyl-2-(2'-oxazolinyl)phenolato]manganese(III) and Tris[5-chloro-2-(2'-oxazolinyl)phenolato]manganese(III)

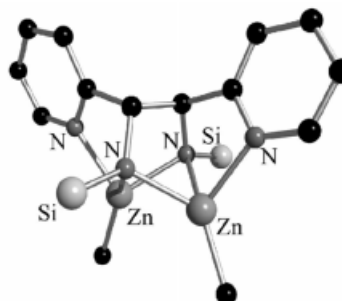
Keywords: Manganese / Spectroelectrochemistry / Cyclic voltammetry / Homogeneous catalysis / Oxidations



389 M. Westerhausen,* T. Bollwein,
N. Makropoulos, S. Schneiderbauer,
M. Suter, H. Nöth, P. Mayer, H. Piotrowski,
K. Polborn, A. Pfitzner

Zinc- and Tin-Mediated C–C Coupling Reactions of Metalated (2-Pyridylmethyl)(trialkylsilyl)amines – Mechanistic, NMR Spectroscopic, and Structural Studies

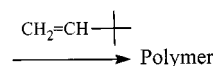
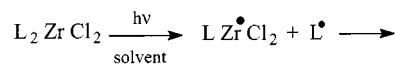
Keywords: Amides / C–C coupling / Magnesium / Metalations / Metallacycles / Pyridyl ligands / Tin / Zinc



**405 E. Polo,* A. Barbieri, S. Sostero,
M. L. H. Green**

Zirconocenes as Photoinitiators for Free-Radical Polymerisation of Acrylates

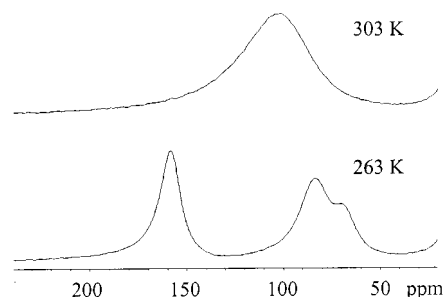
Keywords: Metallocenes / Zirconium / Photolysis / Homogeneous catalysis / Polymerizations



411 R. Blom,* O. Swang

Dynamic Behaviour of Tris(2-methylallyl)-chromium – NMR and DFT Results

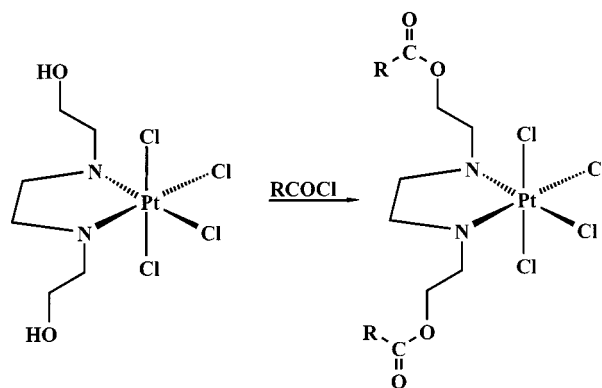
Keywords: Chromium / Allyl complexes / Paramagnetism / NMR spectroscopy / Density-functional calculations



**417 M. Galanski,* W. Zimmermann, M. Berger,
C. Baumgartner, G. Giester, B. K. Keppler***

Carboxylation of 2-Hydroxyethyl-Substituted Tetrachloro(ethane-1,2-diamine)platinum(IV) Complexes – A New Synthetic Approach to Anticancer Platinum Compounds

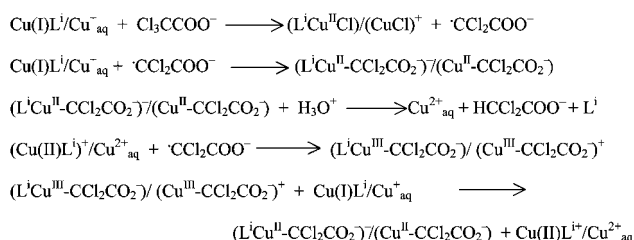
Keywords: Platinum / Structure elucidation / Carboxylation / Antitumor agents



**423 N. Navon,* A. Burg, H. Cohen,
R. van Eldik, D. Meyerstein**

Ligand Effects on the Reactivity of $\text{Cu}^{\text{I}}\text{L}$ Complexes Towards $\text{Cl}_3\text{CCO}_2^-$

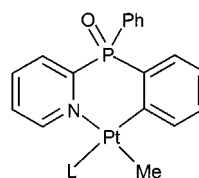
Keywords: Copper / Ligands / Redox chemistry / Kinetics / Reaction mechanisms



**431 G. Minghetti,* A. Doppiu, S. Stoccoro,
A. Zucca, M. A. Cinellu, M. Manassero,*
M. Sansoni**

Reactivity of $\text{Ph}_2\text{P}(\text{O})\text{py-2}$ with Platinum(II) Alkyl Derivatives – Building-up of a Chiral Phosphorus Atom through C,N-Cyclometallation

Keywords: Platinum / N ligands / Cyclometallation / Alkyl derivatives / Crystal structure

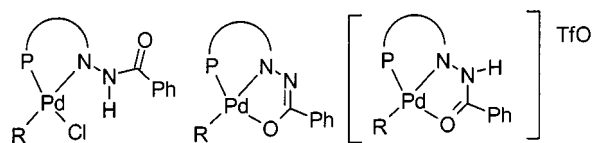


439

P. Pelagatti,* A. Bacchi, M. Carcelli,
M. Costa, H.-W. Frühauf, K. Goubitz,
C. Pelizzi, M. Triclistri, K. Vrieze

Methyl- and Acetylpladium(II) Complexes
Containing a P,N,O Tridentate Hydrazone
Ligand

Keywords: Hydrazones / Insertions / Palladium /
Tridentate ligands



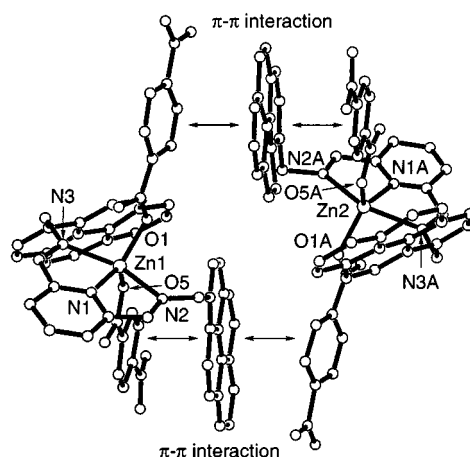
R = Me, C(O)Me

447

T. Moriuchi, M. Nishiyama, T. Hirao*

A Zinc(II) Complex Composed of a Tridentate
Ligand Bearing Podand Pyrenyl Moieties

Keywords: Coordination modes / N ligands / Crystal
engineering / Zinc / Receptors

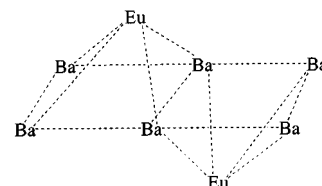


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W. J. Evans,* D. G. Giarikos, M. A. Greci,
J. W. Ziller

Direct Synthesis of Heterometallic Europium/
Barium Complexes: $\text{H}_2[\text{Eu}_2\text{Ba}_6\text{O}_2(\text{O}i\text{Pr})_{16}(\text{THF})_4]$ and $\text{EuBa}_2(\text{OC}_6\text{H}_4\text{Me-4})_7(\text{diglyme})_2(\text{DME})$

Keywords: Europium / Barium / Heterometallic com-
plexes / Isopropoxide complexes

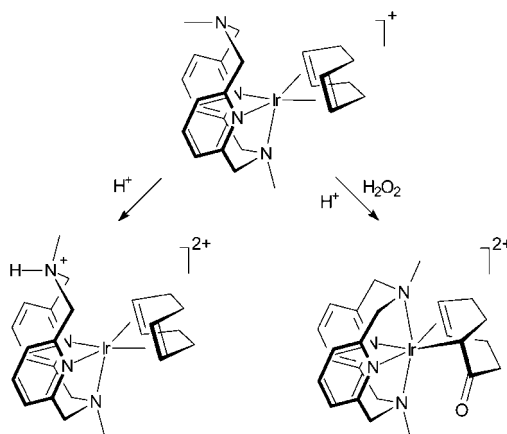


457

T. Sciarone, J. Hoogboom, P. P. J. Schlebos,
P. H. M. Budzelaar, R. de Gelder,
J. M. M. Smits, A. W. Gal*

(Diene)rhodium and -iridium Complexes of
Pyridinophane Ligands

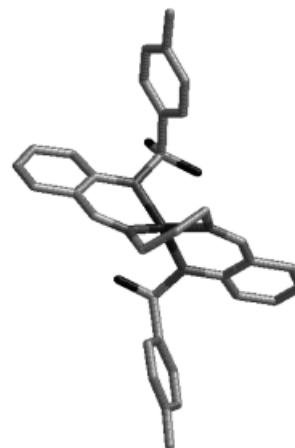
Keywords: Diene ligands / Fluxionality / Iridium /
Oxidations / Rhodium



- 465 M. Vázquez, M. R. Bermejo,* M. Fondo,
A. García-Deibe, A. M. González,
R. Pedrido

New Helical Complexes with a Bis(bidentate)
Schiff Base Ligand Containing a Flexible Spacer

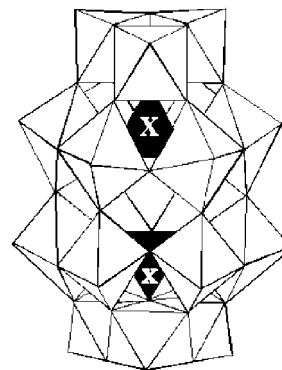
Keywords: Supramolecular chemistry / Helical structures / Schiff bases / Electrochemistry



- 473 B. Keita, I. M. Mbomekalle, L. Nadjio,*
R. Contant

Compared Behaviours of Dawson-Type Tungsto-
diarsenates and -diphosphates

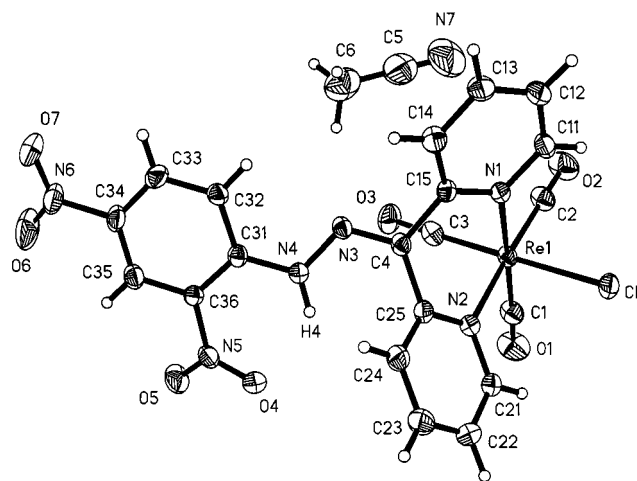
Keywords: Polyanions / Tungsten / Arsenic / Phosphorus / Electrochemistry



- 481 M. Bakir

Synthesis, Characterization and Structural
Studies on the First Rhenium Complex with
Di(2-pyridyl) Ketone 2,4-Dinitrophenylhydraz-
one (dpkdnph), *fac*-[Re(CO)₃(dpkdnph)Cl]

Keywords: Rhenium / Carbonyl ligands / Hydrazones



- 487 S. Striegler,* E. Tewes

Investigation of Sugar-binding Sites in Ternary
Ligand–Copper(II)–Carbohydrate Complexes

Keywords: Carbohydrates / Copper / Molecular imprinting / N ligands / UV/Vis spectroscopy

