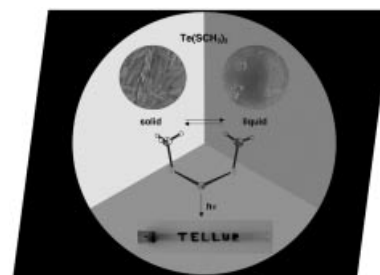


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COVER PICTURE

The cover picture shows yellow crystals and red melt of tellurium(II) dimethanethiolate, $\text{Te}(\text{SCH}_3)_2$, together with its molecular structure in the solid state and the light-induced deposition of elemental tellurium on glass, from a solution of $\text{Te}(\text{SCH}_3)_2$. In the solid state, $\text{Te}(\text{SCH}_3)_2$ exhibits a *cis* conformation of the methyl groups with respect to the TeS_2 plane, an unprecedented case for nonfunctionalized organotrithalcogenides. For $\text{Te}(\text{SR})_2$ ($\text{R} = \text{Me}$, Et, *i*Pr, *t*Bu) $\text{Te}-\text{S}$ bonding and $\text{Te}\cdots\text{S}$ intermolecular distances are correlated, as are ^{125}Te NMR chemical shifts and the ionization energies of the corresponding thiols. Results are rationalized in terms of σ - and π -type $n_p(\text{S})-\sigma^*(\text{Te}-\text{S})$ orbital interactions. Details are presented in the article by H. Fleischer et al. on p. 815 ff.



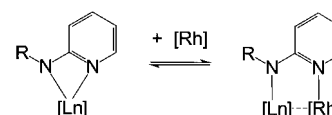
MICROREVIEW

Contents

791 R. Kempe

The Strained $\eta^2\text{-}N_{\text{Amido}}\text{-}N_{\text{Pyridine}}$ Coordination of Aminopyridinato Ligands

Keywords: N ligands / Catalysis / Coordination
 modes / Lanthanides / Transition
 metals

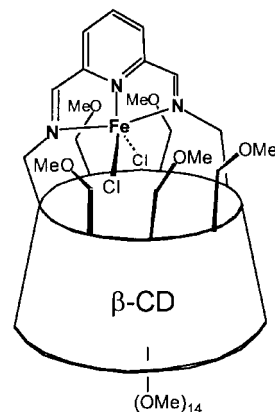


SHORT COMMUNICATIONS

805 D. Armspach,* D. Matt,* F. Peruch,*
P. Lutz*

Cyclodextrin-Encapsulated Iron Catalysts for
the Polymerization of Ethylene

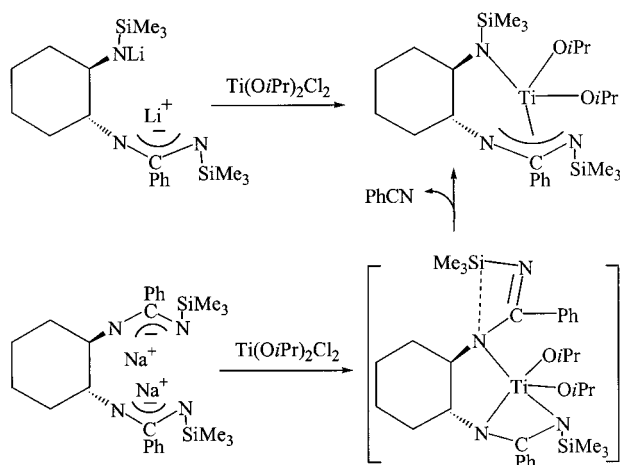
Keywords: Cyclodextrins / Polymerization / Iron /
N ligands / Cavitands



810 J.-F. Li, S.-P. Huang,* L.-H. Weng,
D.-S. Liu*

Ti^{IV} Complexes with Novel, Chiral, Tridentate
Amido-Amidinate or Monoanionic, Didentate
Amidinate Ligands

Keywords: Titanium / N ligands / Coordination
modes / Rearrangement / Elimination

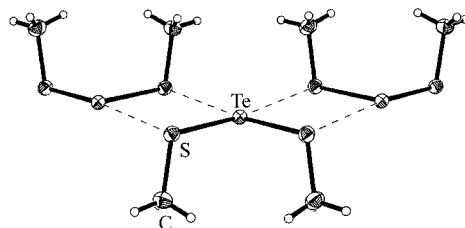


FULL PAPERS

815 H. Fleischer,* N. W. Mitzel, D. Schollmeyer

Tellurium(II) Dialkanethiolates: $n_p(S)-\sigma^*(Te-S')$
Orbital Interactions Determine the ¹²⁵Te NMR
Chemical Shift, and the Molecular and Crystal
Structure

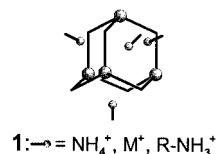
Keywords: NMR spectroscopy / Noncovalent inter-
actions / Solid-state structures / Sulfur /
Tellurium



822 R. W. Saalfrank,* B. Demleitner, H. Glaser,
H. Maid, S. Reihs, W. Bauer, M. Maluenga,
F. Hampel, M. Teichert, H. Krautscheid

Synthesis of Tetrahemispheraplexes with Am-
monium, Alkylammonium or Alkaline Metal
Ions as Exohedral Guests via Self-Assembly or
Guest Exchange

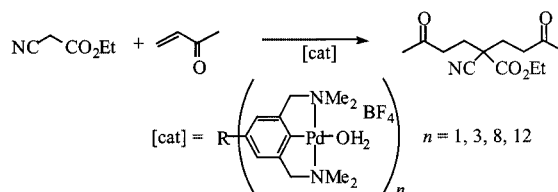
Keywords: Cage compounds / Supramolecular
chemistry / Magnesium / Host-guest
chemistry



- 830** H. P. Dijkstra, M. Q. Slagt, A. McDonald, C. A. Kruithof, R. Kreiter, A. M. Mills, M. Lutz, A. L. Spek, W. Klopper, G. P. M. van Klink, G. van Koten*

para-Functionalized NCN-Pincer Palladium(II) Complexes: Synthesis, Catalysis and DFT Calculations

Keywords: Density functional calculations / Homogeneous catalysis / Substituent effects / Supported catalysts / Synthesis design

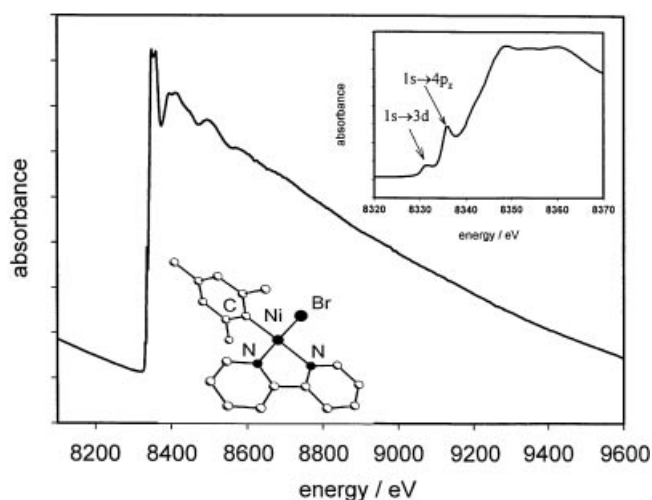


- 839** M. P. Feth,* A. Klein,* H. Bertagnolli



Investigation of the Ligand Exchange Behavior of Square-Planar Nickel(II) Complexes by X-ray Absorption Spectroscopy and X-ray Diffraction

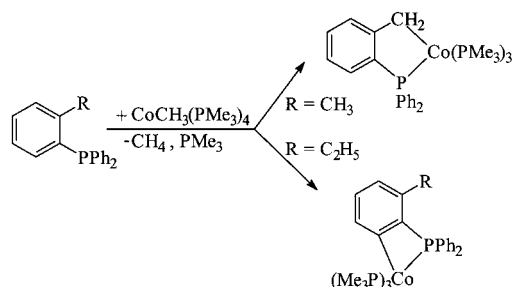
Keywords: Nickel / Ligand exchange / EXAFS spectroscopy / XANES / X-ray diffraction



- 853** H.-F. Klein,* R. Beck, U. Flörke, H.-J. Haupt

Regiospecific Cyclometalation of Diphenyl(2-substituted phenyl)phosphane with Methyltetrakis(trimethylphosphane)cobalt(I)

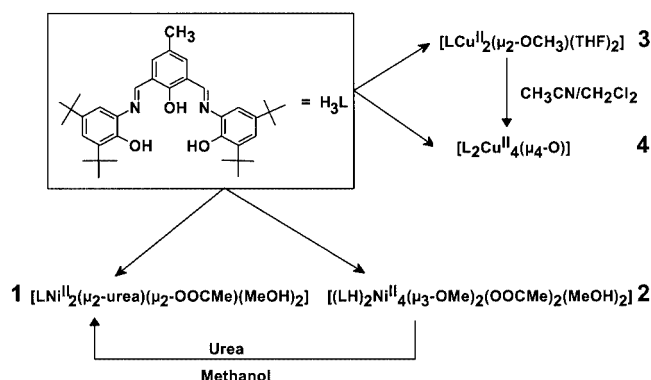
Keywords: Orthometalation / Cobalt / Coordination chemistry / Structure elucidation / Steric control



- 863** S. Mukherjee, T. Weyhermüller, E. Bothe, K. Wieghardt, P. Chaudhuri*

Single-Atom *O*-Bridged Urea in a Dinickel(II) Complex together with Ni^{II}, Cu^{II} and Cu^I Complexes of a Pentadentate Phenol-Containing Schiff Base with (O,N,O,N,O)-Donor Atoms

Keywords: N,O ligands / Nickel / Copper / Magnetic properties / Radicals / Electrochemistry

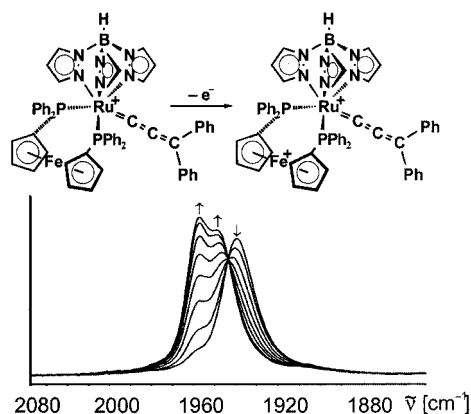


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S. Hartmann, R. F. Winter,*
B. M. Brunner, B. Sarkar, A. Knödler,
I. Hartenbach

(Allenylidene)ruthenium Complexes with Redox-Active Substituents and Ligands

Keywords: Electrochemistry / Sandwich complexes / Ruthenium / Spectroelectrochemistry



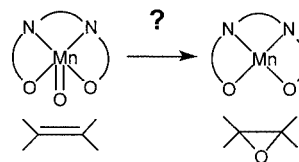
892

L. Cavallo, H. Jacobsen*



Manganese-Salen Complexes as Oxygen-Transfer Agents in Catalytic Epoxidations – A Density Functional Study of Mechanistic Aspects

Keywords: Density functional calculations / Epoxidation / Manganese / N,O ligands / Radicals

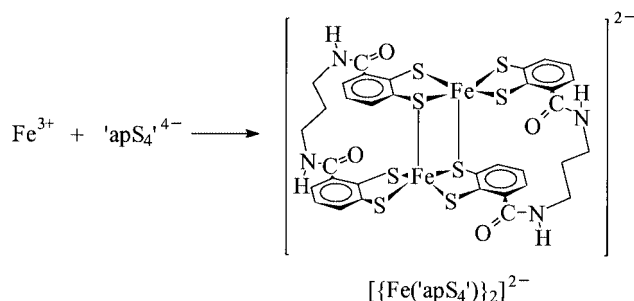


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D. Sellmann,* K. P. Peters, R. M. Molina,
F. W. Heinemann

A Dinuclear Iron Complex with Two Cofacial [FeS₄] Cores Linked by Covalent Ligand Periphery Clamps and Dissociable Thiolate Bridges

Keywords: Iron / S ligands / Bridging ligands / Enzyme models

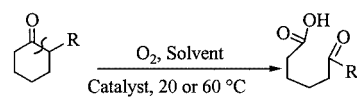


908

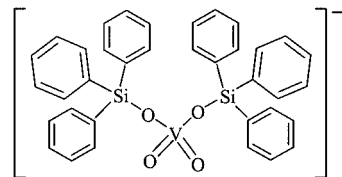
M. Vennat, P. Herson, J.-M. Brégeault,*
G. B. Shul'pin

Vanadium-Catalysed Aerobic Cleavage of C–C Bonds in Substituted Cyclohexanones To Afford Carboxylic Acids: Two Model Complexes with Tetrahedral Geometry around Vanadium(v)

Keywords: Catalysis / Oxidation / Dioxygen / Oxo ligands / Vanadium



(R = OH; CH₃)

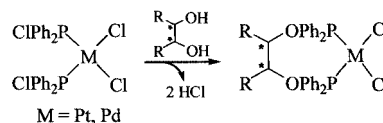


Catalyst = [(Ph₃SiO)₂VO₂]⁻; [(Ph₂SiO₂VO₂)₂]²⁻;
H_{3+n}[PMo_{12-n}V_nO₄₀]·xH₂O (n = 3, 4, etc.);
VO₂SO₄·5H₂O; [VO(acac)₂]

- 918** P. Bergamini,* V. Bertolasi, M. Cattabriga,
V. Ferretti, U. Loprieno, N. Mantovani,
L. Marvelli

Template Synthesis of Chiral Vicinal Diphosphinites as Their Pt^{II} and Pd^{II} Complexes

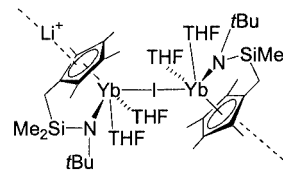
Keywords: Template synthesis / Ligand design / P ligands / Platinum / Palladium



- 926** A. T. Trifonov, T. P. Spaniol, J. Okuda*

Di- and Trivalent Ytterbium Complexes Containing Linked Amino- and Amidocyclopentadienyl Ligands

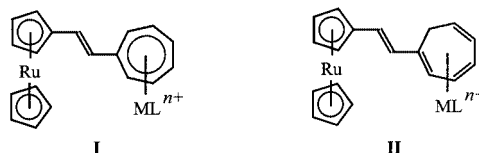
Keywords: Ytterbium / Chelates / Metallocenes / Cyclopentadienyl ligands



- 936** T. Meyer-Friedrichsen, H. Wong,
M. H. Prosenc, J. Heck*

Vinylogue Mono- and Bimetallic Cationic Sesquifulvalene and Monohydro Sesquifulvalene Complexes for Second Harmonic Generation

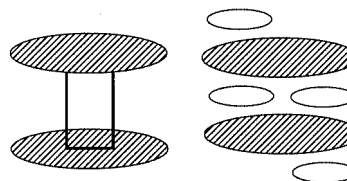
Keywords: Sesquifulvalene / Ruthenium / X-ray structure determination / Hyper-Rayleigh Scattering (HRS) / Second harmonic generation (SHG)



- 947** W. Huang, S. Gou,* H. Qian, D. Hu,
S. Chantrapromma, H.-K. Fun, Q. Meng

Macrocyclic, Dinuclear Zinc(II)-Directed Self-Assembly with Pyridine, 2,2'-Bipyridine and 2-Methylquinoline: μ^2 -OH Bridging Bi-Macrocyclic Complexes and Hydrogen-Bond-Supported Donor-Acceptor Complexes

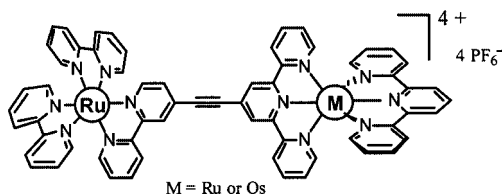
Keywords: N,O ligands / Macrocycles / Zinc / Self-assembly / Structure elucidation / Hydrogen bonds



- 955** A. Harriman,* M. Hissler, A. Khatyr,
R. Ziessel

The Photophysical Properties of Hybrid Metal Complexes Containing both 2,2'-Bipyridine and 2,2':6',2''-Terpyridine Units

Keywords: Luminescence / Photophysics / Molecular electronics / Energy transfer



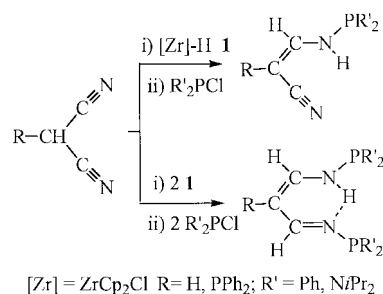
960

A. Maraval, K. Owsianik, D. Arquier,
A. Igau,* Y. Coppel, B. Donnadieu,
M. Zabolcka, J.-P. Majoral*



Dynamic Behavior of an *N*-Metalated β -Enaminoimine Complex – Preparation of *N*-Phosphanylenamine and β -Enaminoimine Derivatives

Keywords: N ligands / NMR spectroscopy / Imines / Zirconium / Metallocenes / Transmetalation

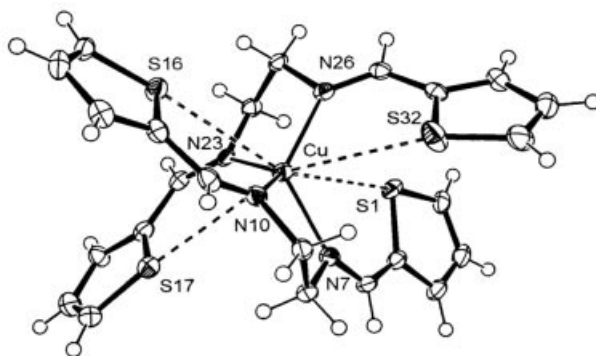


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G. K. Patra, I. Goldberg*

Syntheses and Crystal Structures of Copper and Silver Complexes with New Imine Ligands – Air-Stable, Photoluminescent Cu^IN₄ Chromophores

Keywords: N ligands / Copper / Silver / Luminescence / Electrochemistry

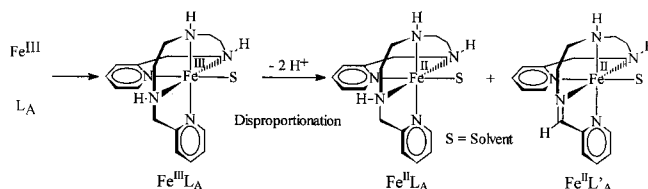


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V. M. Ugalde-Saldivar, M. E. Sosa-Torres,
I. González*

The Reactivity of an Iron(II)/Iron(III) System with Polyamine Ligands in Ethanol: An Electrochemical Study

Keywords: Iron / N ligands / Electrochemistry / Oxidative dehydrogenation / Disproportionation

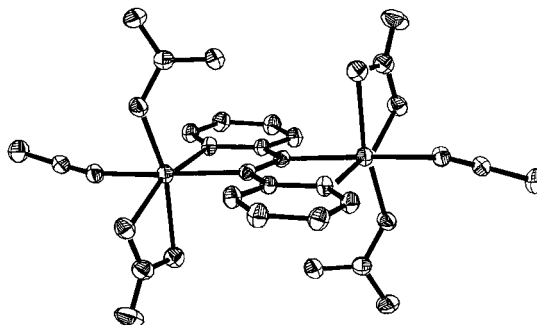


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C. S. Campos-Fernández,
J. R. Galán-Mascarós,* B. W. Smucker,
K. R. Dunbar*

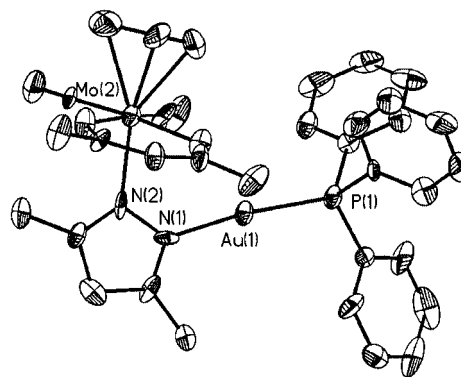
Synthesis, X-ray Studies and Magnetic Properties of Dinuclear Ni^{II} and Cu^{II} Complexes Bridged by the Azo-2,2'-bipyridine Ligand

Keywords: Magnetic properties / Azo compounds / Nickel / Copper



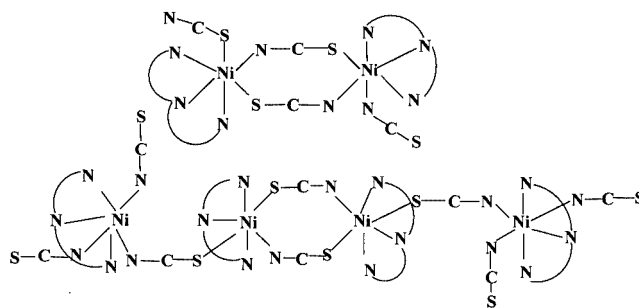
Synthesis of (η^3 -Allyl)bromodicarbonylbis(pyrazole)molybdenum(II) and Reactivity towards $[\text{Au}(\text{acac})\text{PPh}_3]$: Structure and Dynamic Behavior of the Monometallic Pyrazole and Heterometallic Pyrazolate Complexes

Keywords: Molybdenum / Gold / Heterometallic complexes / N ligands / Fluxionality



T. K. Maji, G. Mostafa,
J. M. Clemente-Juan, J. Ribas,* F. Lloret,
K. Okamoto, N. Ray Chaudhuri*

Synthesis, Crystal Structure and Magneto-Structural Correlation of an Unusual Thiocyanato-bridged Nickel(II) Compound, $[\text{Ni}(\mu\text{-NCS})(\text{dpt})(\text{NCS})]_2[\text{Ni}(\mu\text{-NCS})(\text{dpt})(\text{NCS})]_4$ [dpt = bis(3-aminopropyl)amine]



Keywords: Nickel / Bridging ligands / S ligands / Magnetic properties / N ligands