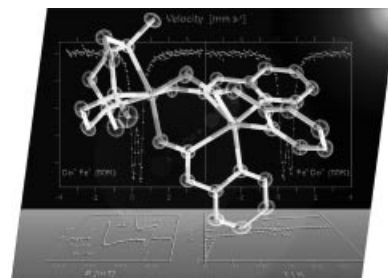


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COVER PICTURE

The cover picture shows the multiple characterization methods used to unravel the electronic and geometrical structures of the unit $M_A^{III}M_B^{II}$, in which three oximato groups ($=N-O$)[−] are present as bridging ligands. Variable-temperature magnetic susceptibility and EPR measurements provide a consistent answer to the question of electronic ground states for different heterometallic combinations. Mößbauer spectroscopy helps to differentiate between the species $Co^{III}(l.s.)Fe^{II}(l.s.)$ and $Fe^{II}(h.s.)Co^{III}(l.s.)$. Details on the preparation and characterization of the species $Fe^{III}M^{II}$ and related heterometallic compounds are presented in a forthcoming article by P. Chaudhuri et al.: Asymmetric Heterodinuclear $Fe^{III}M^{II}$ ($M = Zn, Cu, Ni, Fe, Mn$), $Co^{III}Fe^{II}$ and $Fe^{II}Co^{III}$ Species: Synthesis, Structure, Redox Behaviour and Magnetism.



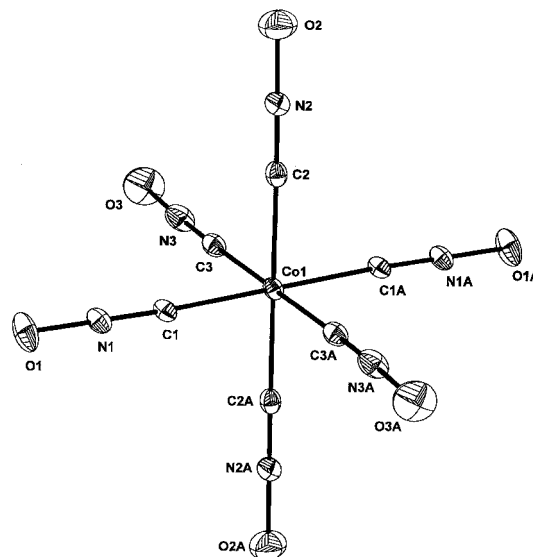
MICROREVIEW

Contents

4275 W. Beck

The First Chemical Achievements and Publications by Justus von Liebig (1803–1873) on Metal Fulminates and Some Further Developments in Metal Fulminates and Related Areas of Chemistry

Keywords: Liebig / Fulminates / Silver / Structure elucidation

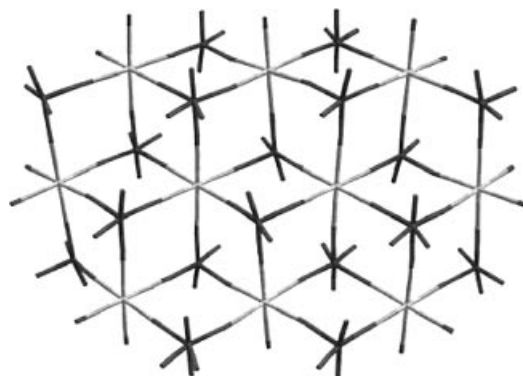


SHORT COMMUNICATIONS

4289 E. Coronado, C. Giménez-Saiz, A. Nuez,
V. Sánchez, F. M. Romero*

Stoichiometric Control of the Magnetic Properties in Copper(II) Cyano-Bridged Bimetallic Complexes

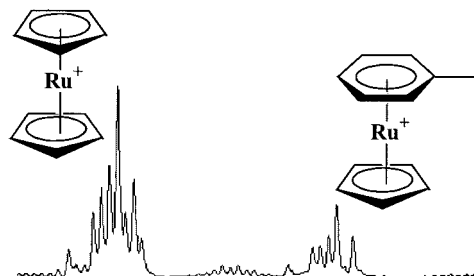
Keywords: Magnetic properties / Heterometallic complexes / N ligands / Copper / Iron



4294 A. Dorcier, P. J. Dyson,* J. S. McIndoe

Analysis of Coordination and Organometallic Compounds Using Photoionisation Mass Spectrometric Techniques

Keywords: Atmospheric chemistry / Electrospray ionisation / Mass spectrometry / Transition metals



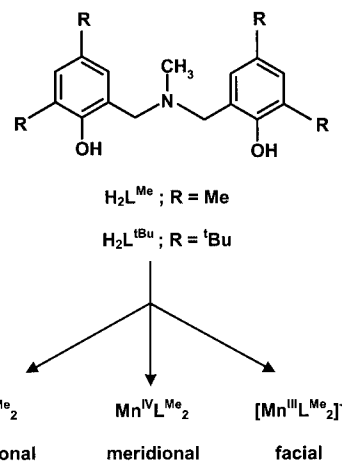
FULL PAPERS

4299 T. K. Paine, T. Weyhermüller, E. Bill,
E. Bothe, P. Chaudhuri*



Non-Oxo Vanadium(IV) Complexes of Aminebis-(phenolate) [O,N,O] Donor Ligands and Solution Studies of Isostructural V^{IV} and Mn^{IV} Complexes

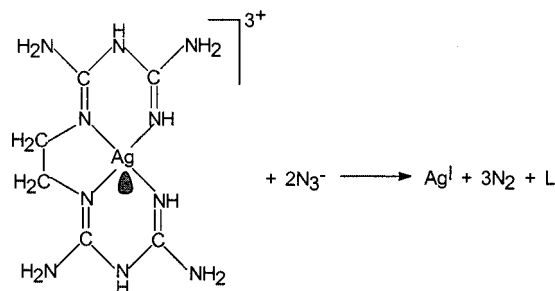
Keywords: Vanadium / Manganese / EPR spectroscopy / Cyclic voltammetry / Isomerism



4308 P. Bandyopadhyay, B. B. Dhar,
J. Bhattacharyya, S. Mukhopadhyay*

Kinetics of Oxidation of Azide by [Ethylenebis-(biguanide)]silver(III) in Aqueous Acidic Media

Keywords: Kinetics / Mechanisms / Redox chemistry / Silver / Azides

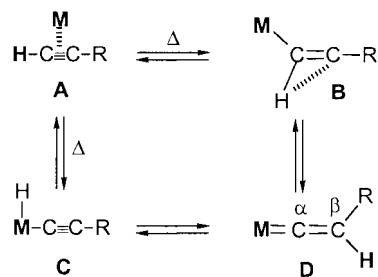


[L = ethylenebis(biguanide)]

4313 J. Ipaktschi,* J. Mohsseni-Ala, S. Uhlig

η^1 -Vinylidene to η^2 -Alkyne Isomerization of Tungsten and Molybdenum Complexes

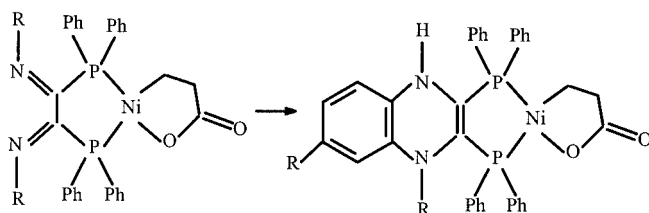
Keywords: Vinylidene ligands / Alkyne ligands / Isomerization / Kinetics / Isotope effects



4321 D. Walther,* S. Liesicke, R. Fischer, H. Görls, J. Weston, A. Batista

2,3-Bis(diarylphosphanyl)-1,4-diazadienes: P,P Coordination of Pd^{II}, Pt^{II} and a Nickelacyclopentanone with Subsequent Formation of Quinoxalines by a Ring-Closure Reaction at the Periphery

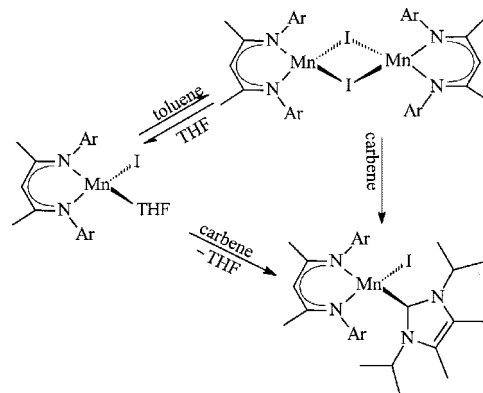
Keywords: Chelates / Cycloadditions / Metallacycles / N,P ligands / Transition metals



4332 J. Chai, H. Zhu, K. Most, H. W. Roesky,* D. Vidovic, H.-G. Schmidt, M. Noltemeyer

Synthesis and Reaction of Mn^{II} Iodides Bearing the β -Diketiminato Ligand: the First Divalent Manganese N-Heterocyclic Carbene Complexes [$\{HC(CMeNAr)_2\}MnI\{C[N(iPr)CMe]_2\}$] and [$\{HC(CMeNAr)_2\}MnNHAr\{C[N(iPr)CMe]_2\}$] (Ar = 2,6-*i*Pr₂C₆H₃)

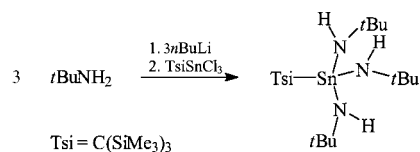
Keywords: Manganese / Iodine / N ligands / Heterocycles / Carbene ligands



4338 J. Janssen, H.-G. Schmidt, M. Noltemeyer, H. W. Roesky*

The First Stable Monomeric Triaminostannane of Composition [(Me₃Si)₃CSn(NH*t*Bu)₃] Containing Three Substituted NH Groups

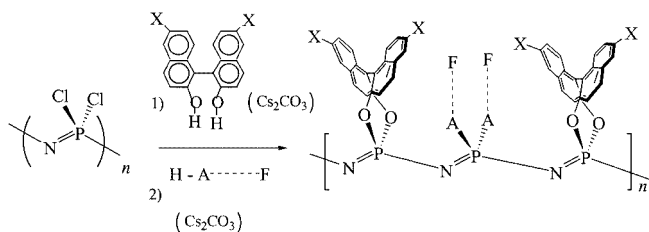
Keywords: N ligands / Ammonolysis / Tin



4341 G. A. Carriedo,* F. J. García Alonso, A. Presa-Soto

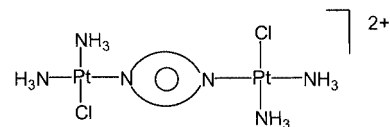
High Molecular Weight Phosphazene Copolymers Having Chemical Functions Inside Chiral Pockets Formed by (*R*)-(1,1'-Binaphthyl-2,2'-dioxo)phosphazene Units

Keywords: Polymers / Polyphosphazenes / Ligand effects / Chirality

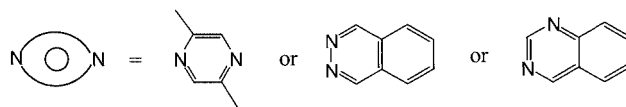


4347 G. V. Kalayda, S. Kameda, K. Ikeda, T. Sato,
M. Chikuma, J. Reedijk*

Synthesis, Structure, and Biological Activity of New Azine-Bridged Dinuclear Platinum(II) Complexes – a New Class of Anticancer Compounds

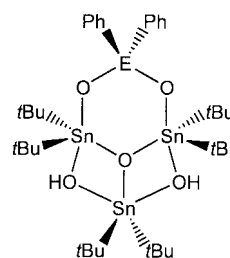


Keywords: Platinum / Antitumor agents / Structure-activity relationships / Cytotoxicity / Apoptosis / Guanine binding



4356 J. Beckmann,* D. Dakternieks, A. Duthie,
K. Jurkschat,* M. Mehring, C. Mitchell,
M. Schürmann

The Isoelectronic Replacement of E = P⁺ and Si in the Trinuclear Organotin–Oxo Clusters [Ph₂E(OSn^tBu₂)₂O·^tBu₂Sn(OH)₂]

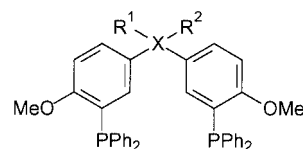


Keywords: Tin / Phosphorous / NMR spectroscopy / Cluster compounds

1, E = Si
6a, E = P⁺

4361 J. I. van der Vlugt, M. M. P. Grutters,
A. M. Mills, H. Kooijman, A. L. Spek,
D. Vogt*

New Diphosphane Ligands Based on Bisphenol A Backbones – Synthesis and Coordination Chemistry



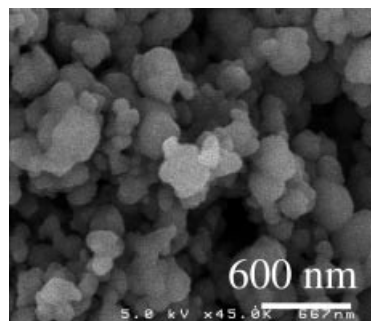
Keywords: Ligand design / Phosphanes / Coordination modes / Structure elucidation / Transition metals

1 X = C(CH₃)₂
2 X = cy-C₆
3 X = C(CH₃)Ph
4 X = Si(CH₃)₂

4370 M. Smaih, O. Barida, V. Valtchev

Investigation of the Crystallization Stages of LTA-Type Zeolite by Complementary Characterization Techniques

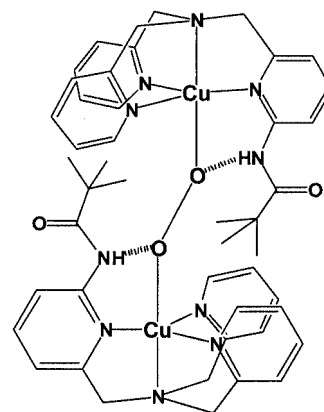
Keywords: Zeolites / Hydrothermal synthesis / NMR spectroscopy / Crystal growth



- 4378** S. Yamaguchi, A. Wada, Y. Funahashi
S. Nagatomo, T. Kitagawa, K. Jitsukawa,*
H. Masuda*

Thermal Stability and Absorption Spectroscopic Behavior of (μ -Peroxo)dicopper Complexes Regulated with Intramolecular Hydrogen Bonding Interactions

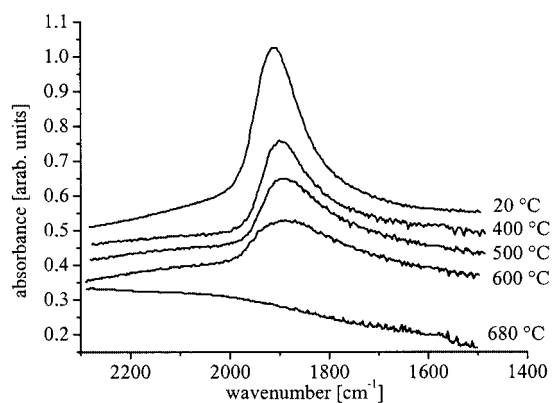
Keywords: Copper / Peroxides / Tripodal ligands / Hydrogen bonding interactions



- 4387** M. Veith,* K. Andres, S. Faber, J. Blin,
M. Zimmer, Y. Wolf, H. Schnöckel,
R. Köppe, R. de Masi, S. Hufner

The Metastable, Glasslike Solid-State Phase of HAIO and Its Transformation to Al/Al₂O₃ Using a CO₂ Laser

Keywords: Metastable phase / Aluminum / Laser chemistry / Solid-state structures



CORRECTION

- 4395** S. Chakrabarti, S. K. Pati, M. A. Green,
S. Natarajan*

Synthesis, Structure and Magnetic Properties of a New Iron Arsenate, [C₁₀N₄H₂₈][{FeF(OH)-(HAsO₄)₄}], with a Layer Structure

Keywords: Iron / Arsenic / Solvothermal synthesis / N ligands

- 4397** Index 2003



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.