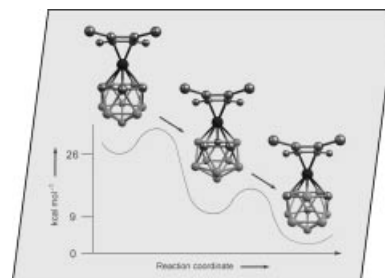


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COVER PICTURE

The cover picture shows the isomerization sequence of cobaltatetricarbollides $(C_4Me_4)Co(C_3B_8H_{11})$ prepared by using convenient synthons of the $(C_4Me_4)Co$ fragment. The isomerization is associated with progressive space separation of the negatively charged carbon atoms and correlates well with the calculated relative stabilities of non-methylated analogs. Introduction of an amino substituent at the cage carbon atom dramatically reduces the rearrangement barrier and changes the pathway of the process. Details are discussed in the article by A. R. Kudinov et al. on p. 1737 ff.



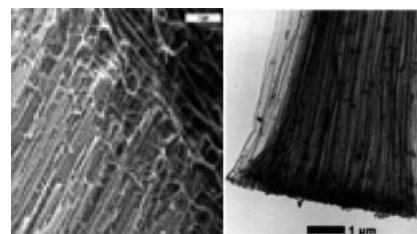
MICROREVIEW

Contents

1723 J. J. Schneider,* J. Engstler

Carbon and Polymer Filaments in Nanoporous Alumina

Keywords: Alumina / Porous templates / Nanotubes /
 Carbon / Nanochemistry



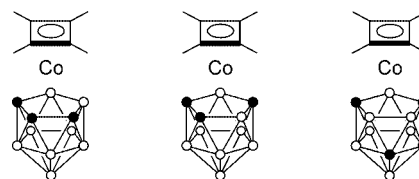
FULL PAPERS

- 1737** E. V. Mutseneck, D. S. Perekalin, J. Holub, K. A. Lyssenko, P. V. Petrovskii, B. Štíbr, A. R. Kudinov*



(Tetramethylcyclobutadiene)cobalt Complexes with Tricarbollide Ligands

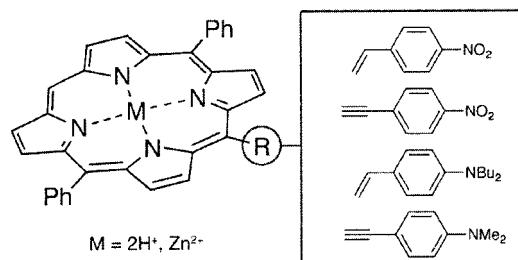
Keywords: Boron / Cobalt / Metallocarboranes / Cyclobutadiene



- 1743** T. Morotti, M. Pizzotti,* R. Ugo, S. Quici, M. Bruschi, P. Mussini, S. Righetto

Electronic Characterisation and Significant Second-Order NLO Response of 10,20-Diphenylporphyrins and Their Zn^{II} Complexes Substituted in the *meso* Position with π -Delocalised Linkers Carrying Push or Pull Groups

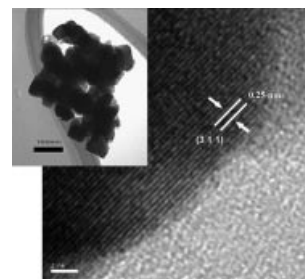
Keywords: Nonlinear optics / Porphyrins / Cyclic voltammetry / UV/Vis spectroscopy



- 1758** A. Caballero, M. Cruz-Yusta, J. Morales, J. Santos-Peña,* E. Rodríguez-Castellón

A New and Fast Synthesis of Nanosized LiFePO_4 Electrode Materials

Keywords: Copper / Lithium ion batteries / Materials science / Nanostructures / Phosphates

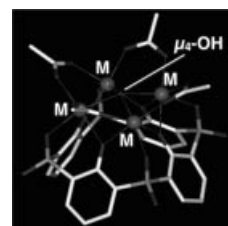


- 1765** T. Kajiwara,* T. Kobashi, R. Shinagawa, T. Ito, S. Takaishi, M. Yamashita, N. Iki*



Highly Symmetrical Tetranuclear Cluster Complexes Supported by *p*-*tert*-Butylsulfonycalix-[4]arene as a Cluster-Forming Ligand

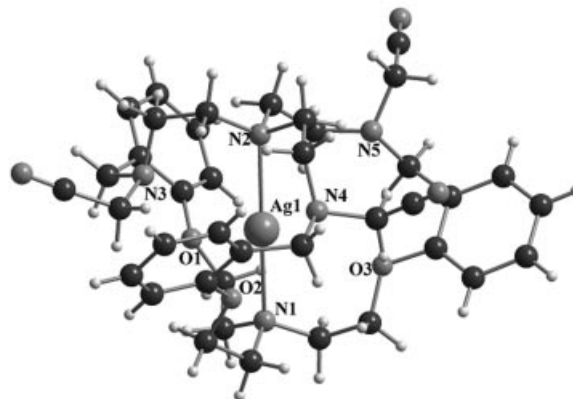
Keywords: Cluster compounds / Calixarenes / Magnetic properties / Ligand exchange



- 1771** D. Ray, P. K. Bharadwaj*

Alteration in the Binding Property of a Laterally Nonsymmetric Aza Cryptand toward Cu^{II} , Ag^{I} , and Tl^{I} Ions upon Derivatization with a Cyanomethyl Group

Keywords: Cryptands / Coordination chemistry / Metal cryptate / Silver / Copper / Thallium

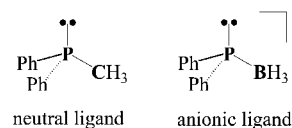


1777 F. Dornhaus, M. Bolte, H.-W. Lerner, M. Wagner*



Phosphanylborohydrides: First Assessment of the Relative Lewis Basicities of $[\text{BH}_3\text{PPh}_2]^-$, CH_3PPh_2 , and HPPH_2

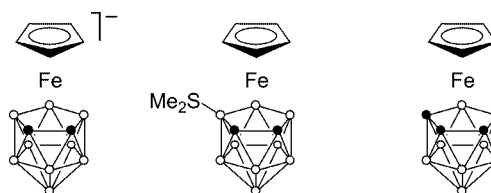
Keywords: P Ligands / Phosphanylborohydride / Ligand design / Donor–acceptor systems / Isoelectronic analogues



1786 R. H. Herber,* A. R. Kudinov, P. Zanello, I. Nowik, D. S. Perekalin, V. I. Meshcheryakov, K. A. Lyssenko, M. Corsini, S. Fedi

Synthesis, Structure, Electrochemistry, and Metal-Atom Dynamics of Cyclopentadienyl Ferracarboranes

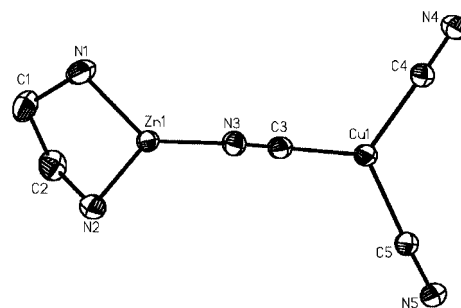
Keywords: Cyclopentadienyl ferracarboranes / Electrochemistry / X-ray diffraction / Mössbauer spectroscopy



1796 R. Weiss, Y. Guo, S. Vukojević, L. Khodeir, R. Boese, F. Schüth, M. Muhler, M. Eppe*

Catalytic Activity of Copper Oxide/Zinc Oxide Composites Prepared by Thermolysis of Crystallographically Defined Bimetallic Coordination Compounds

Keywords: Heterogeneous catalysis / Copper / Zinc / Thermochemistry / Structural chemistry

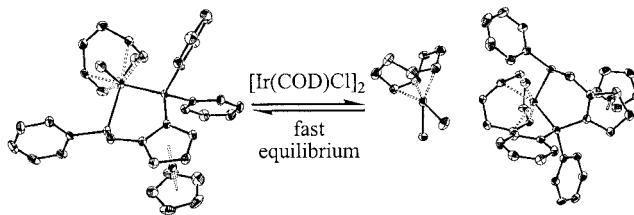


1803 R. Malacea, E. Manoury,* L. Routaboul, J.-C. Daran, R. Poli, J. P. Dunne, A. C. Withwood, C. Godard, S. B. Duckett



Coordination Chemistry and Diphenylacetylene Hydrogenation Catalysis of Planar Chiral Ferrocenylphosphane-Thioether Ligands with Cyclooctadieneiridium(I)

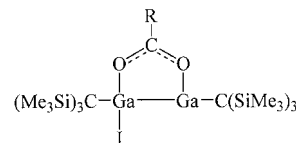
Keywords: Ferrocenylphosphane ligands / Hemilability / Hydrogenation / Iridium / Planar chirality / Thioether ligands



1817 W. Uhl,* A. El-Hamdan, K. P. Schindler

Investigations into the Reactivity of Organo-element Gallium Subhalides – Syntheses of Bifunctional Digallium Carboxylate Iodides Possessing Bridged Ga–Ga Bonds and Terminal Iodine Atoms

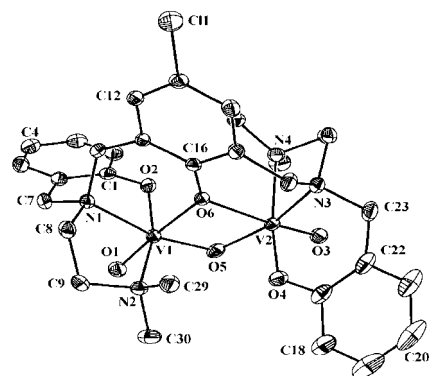
Keywords: Gallium / Subvalent compounds / Subhalides / Metal–metal bonds / Carboxylato ligands



1824 A. Mondal, S. Basak, S. Sarkar, D. Chopra,
R. Das, K. K. Rajak*

Binuclear Mixed Valence Oxovanadium(IV/V)
Complexes Containing a $[\text{OV}^{\text{IV}}(\mu\text{-O}_{\text{oxo}})(\mu\text{-O}_{\text{phen}})\text{V}^{\text{VO}}]^{2+}$ Core: Synthesis, EPR Spectra,
Molecular and Electronic Structure

Keywords: Vanadium / Oxovanadium complexes /
Mixed valence

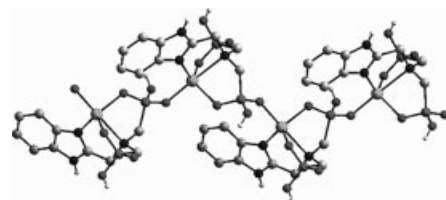


1830 D.-K. Cao, J. Xiao, Y.-Z. Li,
J. M. Clemente-Juan, E. Coronado,
L.-M. Zheng*



Metal Phosphonates Based on $\{[(\text{Benzimidazol-2-ylmethyl})\text{imino}]\text{bis}(\text{methylene})\}\text{bis}(\text{phosphonic Acid})\}$: Syntheses, Structures and Magnetic Properties of the Chain Compounds $[\text{M}\{(\text{C}_7\text{H}_5\text{N}_2)\text{CH}_2\text{N}(\text{CH}_2\text{PO}_3\text{H})_2\}]$ ($\text{M} = \text{Mn}, \text{Fe}, \text{Co}, \text{Cu}, \text{Cd}$)

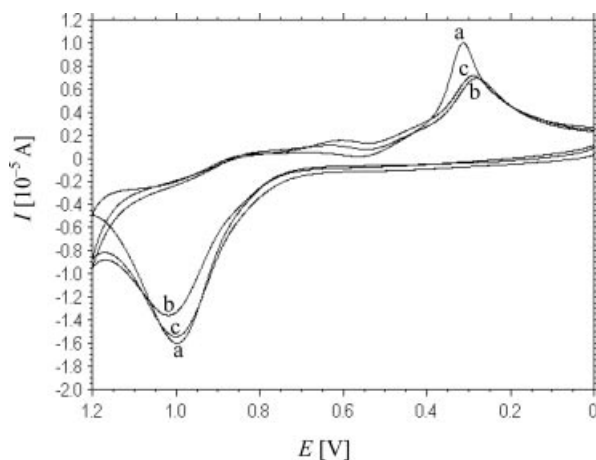
Keywords: Chain structures / Magnetic properties /
N,O ligands / Organic–inorganic hybrid
composites / Transition metals



1838 Q. X. Wang, K. Jiao,* W. Sun, F. F. Jian,
X. Hu

Binding of an Oxo-Bridged Dinuclear Iron(III)
Complex $\{[\text{Fe}(\text{phen})(\text{H}_2\text{O})_3]_2\text{O}\}(\text{SO}_4)_2$ to DNA
and Its Recognition of Single- and Double-
Stranded DNA As Determined by Electrochemical
Studies

Keywords: Oxo-bridged diiron(III) complex / Crystal-
lography / DNA recognition / Voltammetry

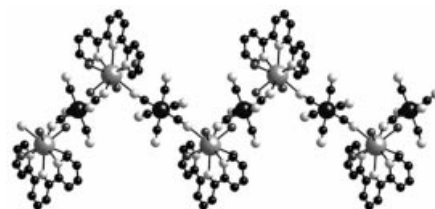


1846 A. Figuerola, J. Ribas, X. Solans,
M. Font-Bardía, M. Maestro, C. Diaz*



One Dimensional 3d–4f Heterometallic
Compounds: Synthesis, Structure and Magnetic
Properties

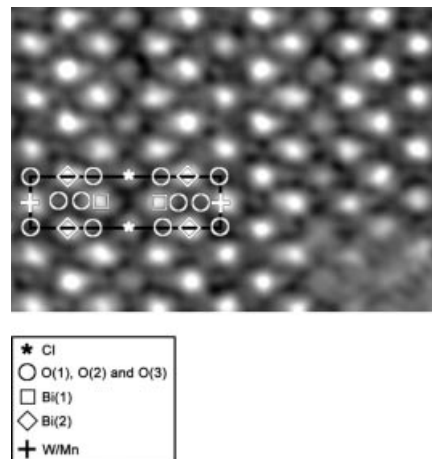
Keywords: Lanthanides / Chromium / Cyanide /
Magnetic properties



1853 D. Ávila-Brande,* L. C. Otero-Díaz,
 Á. R. Landa-Cánovas, S. Bals,
 G. Van Tendeloo

A New $\text{Bi}_4\text{Mn}_{1/3}\text{W}_{2/3}\text{O}_8\text{Cl}$ Sillén–Aurivillius Intergrowth: Synthesis and Structural Characterisation by Quantitative Transmission Electron Microscopy

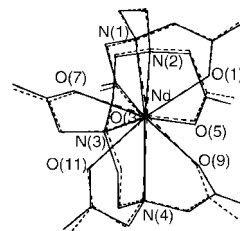
Keywords: Sillén–Aurivillius intergrowths / Layered oxyhalide / Electron microscopy / Exit-wave reconstruction / Bismuth



1859 A. Mondry,* P. Starynowicz

Ten-Coordinate Neodymium(III) Complexes with Triethylenetetraaminehexaacetic Acid

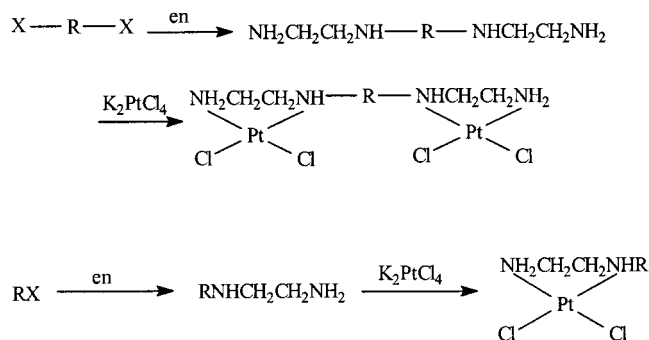
Keywords: Chelates / Lanthanides / N ligands / Neodymium / UV/Vis spectroscopy



1868 M. R. C. Couri, M. V. de Almeida,
 A. P. S. Fontes,* J. D'Arc S. Chaves,
 E. T. Cesar, R. J. Alves, E. C. Pereira-Maia,
 A. Garnier-Suillerot

Synthesis of Polyamines from Ethylenediamine and Their Platinum(II) Complexes, Potential Antitumor Agents

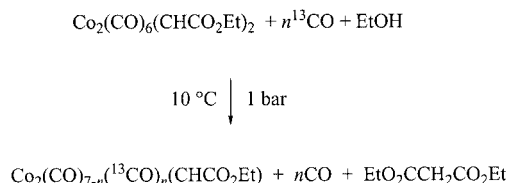
Keywords: Amines / Platinum / Antitumor agents



1875 E. Fördös, N. Ungvári, T. Kégl, F. Ungváry*

Reactions of ^{13}CO with Ethoxycarbonylcarbene-Bridged Dicobalt Carbonyl Complexes: $[\mu_2\{-\text{Ethoxycarbonyl(methylene)}\}-\mu_2\text{-(carbonyl)bis(tricarbonylcobalt)(Co-Co)}]$ and $[\text{Di-}\mu_2\{-\text{ethoxycarbonyl(methylene)}\}\text{bis(tricarbonylcobalt)(Co-Co)}]$

Keywords: Isotopic labeling / C–C coupling / Carbene and carbonyl ligands / Cobalt / Fluxionality

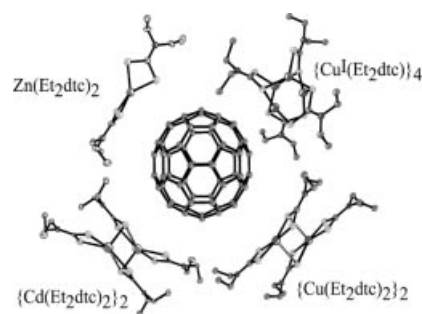


D. V. Konarev,* A. Y. Kovalevsky,
S. S. Khasanov, G. Saito, D. V. Lopatin,
A. V. Umrikhin, A. Otsuka,
R. N. Lyubovskaya



Synthesis, Crystal Structures, Magnetic Properties and Photoconductivity of C_{60} and C_{70} Complexes with Metal Dialkyldithiocarbamates $M(R_2dtc)_x$, where $M = Cu^{II}, Cu^I, Ag^I, Zn^{II}, Cd^{II}, Hg^{II}, Mn^{II}, Ni^{II}$, and Pt^{II} ; $R = Me, Et$, and nPr

Keywords: Crystal engineering / Fullerenes / Metal dialkyldithiocarbamates / Magnetic properties / Photoconductivity



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