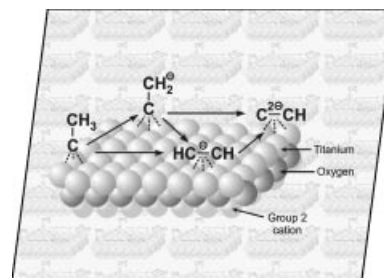


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COVER PICTURE

The cover picture shows how the treatment of the oxide molecular model $[\{\text{TiCp}^*(\mu\text{-O})\}_3(\mu_3\text{-CMe})]$ ($\text{Cp}^* = \eta^5\text{-C}_5\text{Me}_5$) with alkaline earth metal amide and alkyl compounds produces the deprotonation of the μ_3 -ethynylidyne fragment to give $\mu_3\text{-CCH}_2^-$, $\mu_3\text{-CHCH}^-$ or $\mu_3\text{-CCH}^{2-}$ carbanions. Simultaneously, the alkaline earth cation is incorporated through the oxygen atoms to build new cage structures. Details of this chemistry are described by M. Mena et al. on p. 2137ff.



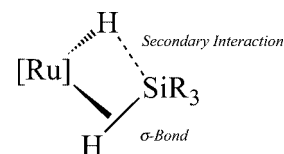
MICROREVIEW

Contents

2115 S. Lachaize, S. Sabo-Etienne*

σ -Silane Ruthenium Complexes: The Crucial
 Role of Secondary Interactions

Keywords: σ -Complexes / Ruthenium / Silanes /
 Hydrides / Coordination modes / Intramo-
 lecular interactions / Oxidative addition /
 Hypervalent compounds



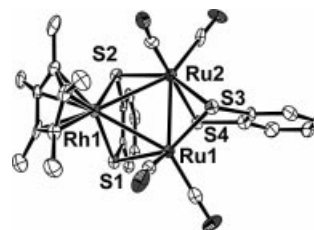
SHORT COMMUNICATIONS

- 2129 N. Nakagawa, M. Murata, M. Sugimoto, H. Nishihara*



Dithiolato-Bridged $[\text{MRu}_2]$ ($\text{M} = \text{Rh}, \text{Ir}, \text{Ru}$) Triangular $50e^-$ Cluster Complexes Synthesized by Complete Metal Framework Reconstruction

Keywords: Metal framework reconstruction / Electron excess / X-ray crystallographic analysis / Three-centers-four-electrons bond

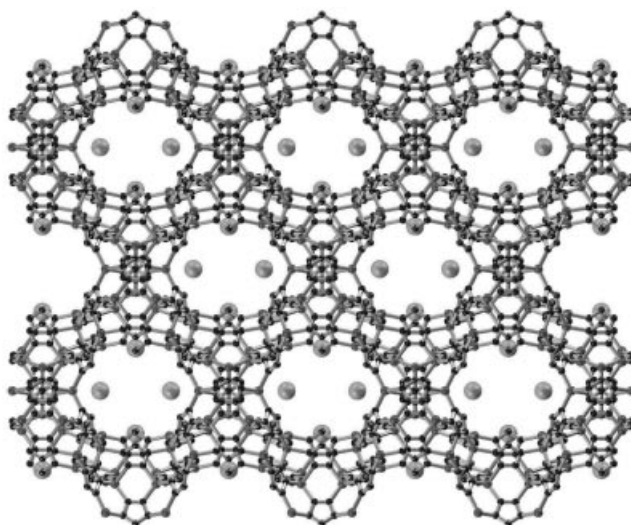


- 2132 T. Wu, M. Chen, D. Li,*



A Coordination Polymer Containing Inorganic Buckybowl Analogues

Keywords: Inorganic buckybowl analogues / Tetrazoles / Sharpless' cycloaddition / Copper / Coordination polymers

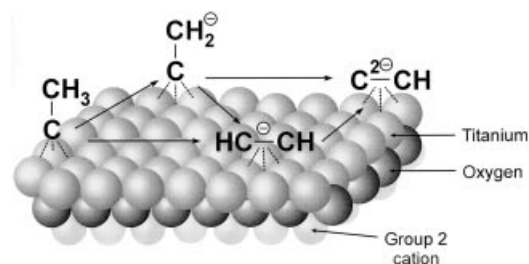


FULL PAPERS

- 2137 A. Martín, M. Mena,*
M. C. Morales-Varela, C. Santamaría

Titanium–Alkaline Earth Molecular Oxides as Supports for Carbanions Derived from μ_3 -Ethynylidyne Groups

Keywords: Alkaline earth metals / Alkylidyne complexes / Carbanions / O ligands / Titanium

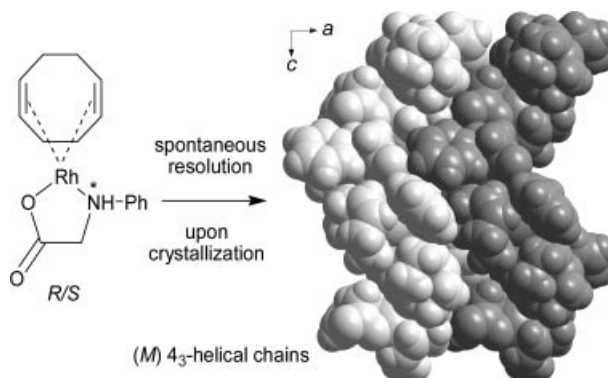


- 2146 M. Enamullah,* A. Sharmin, M. Hasegawa, T. Hoshi, A.-C. Chamayou, C. Janiak*



Syntheses, Spectroscopic Studies, and Crystal Structures of Chiral $[\text{Rh}(\text{aminocarboxylato})(\eta^4\text{-cod})]$ and Chiral $[\text{Rh}(\text{amino alcohol})(\eta^4\text{-cod})]$ -(acetate) Complexes with an Example of a Spontaneous Resolution of a Racemic Mixture into Homochiral Helix-Enantiomers

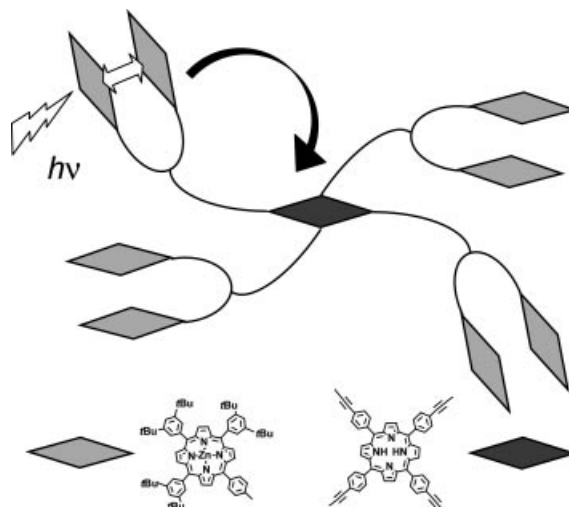
Keywords: Rhodium(I) / Amino acids / Chirality / Spontaneous resolution / Helix



- 2155** L. Flamigni,* A. M. Talarico, B. Ventura,
C. Sooambar, N. Solladié*

Photoinduced Processes in a Dendritic Zn Porphyrin Structure with a Free-Base Porphyrin Core

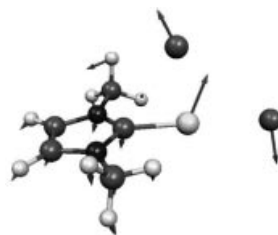
Keywords: Dendrimers / Energy transfer / Luminescence / Porphyrinoids / Supramolecular chemistry



- 2166** M. C. Aragoni, M. Arca, F. A. Devillanova,*
P. Grimaldi,* F. Isaia, F. Lelj,* V. Lippolis

Kinetic and Thermodynamic Aspects of the CT and T-Shaped Adduct Formation Between 1,3-Dimethylimidazoline-2-thione (or -2-selone) and Halogens

Keywords: Density functional calculations / Donor–acceptor systems / Hypervalent compounds / Selenium / Sulfur



- 2175** M. P. Robalo,* A. P. S. Teixeira,
M. H. Garcia, M. F. Minas da Piedade,
M. T. Duarte, A. R. Dias, J. Campo,
W. Wenseleers,* E. Goovaerts

Synthesis, Characterisation and Molecular Hyperpolarisabilities of Pseudo-Octahedral Hydrido(nitrile)iron(II) Complexes for Non-linear Optics: X-ray Structure of $[\text{Fe}(\text{H})(\text{dppe})_2(4\text{-NCC}_6\text{H}_4\text{NO}_2)][\text{PF}_6]\cdot\text{CH}_2\text{Cl}_2$

Keywords: Hydride ligands / Iron / Nonlinear optics / Hyperpolarizability / Hyper-Rayleigh scattering

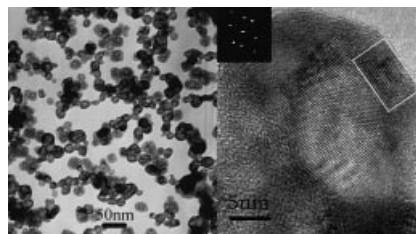


- 2186** X. Liang, X. Wang,* L. Wang, R. Yan,
Q. Peng, Y. Li



Synthesis and Characterization of Ternary $\text{NH}_4\text{Ln}_2\text{F}_7$ ($\text{Ln} = \text{Y}, \text{Ho}, \text{Er}, \text{Tm}, \text{Yb}, \text{Lu}$) Nanocages

Keywords: Nanostructures / Lanthanides

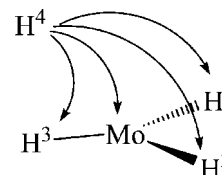


- 2192** N. V. Belkova, P. O. Revin, M. Besora,
M. Baya, L. M. Epstein, A. Lledós,*
R. Poli,* E. S. Shubina,* E. V. Vorontsov



Hydrogen Bonding and Proton Transfer to the Trihydride Complex $[\text{Cp}^*\text{MoH}_3(\text{dppe})]$: IR, NMR, and Theoretical Investigations

Keywords: Dihydrogen bonding / Hydride ligands / Molybdenum / Proton-transfer mechanism / DFT calculations

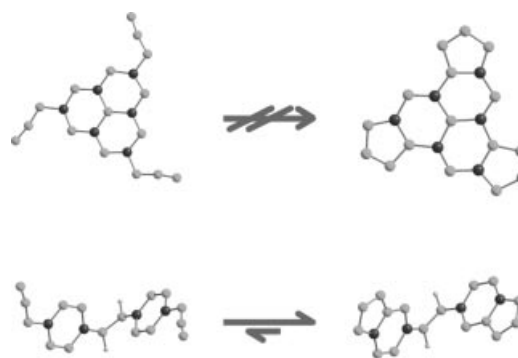


- 2210** A. Hammerl, T. M. Klapötke,* R. Rocha



Azide–Tetrazole Ring-Chain Isomerism in Polyazido-1,3,5-triazines, Triazido-*s*-heptazine, and Diazidotetrazines

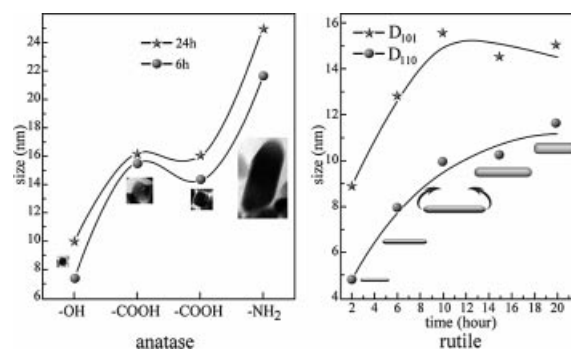
Keywords: ab initio calculations / Nitrogen heterocycles / Azides / Nitrogen



- 2229** X. Yang, H. Konishi, H. F. Xu, M. M. Wu*

Comparative Sol–Hydro(Solvo)thermal Synthesis of TiO_2 Nanocrystals

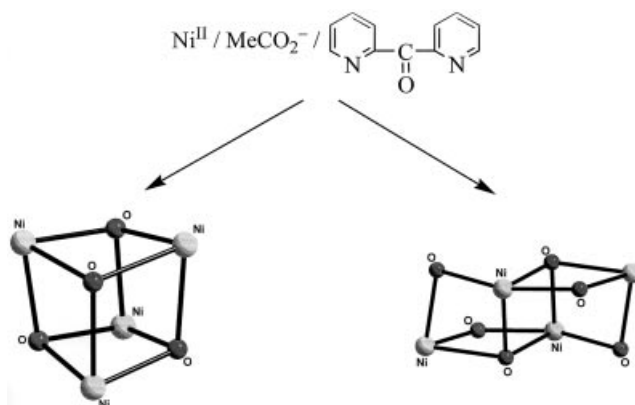
Keywords: Crystal growth / Nanostructures / Self-assembly / Solvothermal synthesis / Titanium



- 2236** C. G. Efthymiou, C. P. Raptopoulou,
A. Terzis, R. Boča,* M. Korabic,
J. Mrozinski,* S. P. Perlepes,*
E. G. Bakalbassis*

A Systematic Exploration of Nickel(II)/Acetate/Di-2-pyridyl Ketone Chemistry: Neutral and Cationic Tetranuclear Clusters, and a Novel Mononuclear Complex

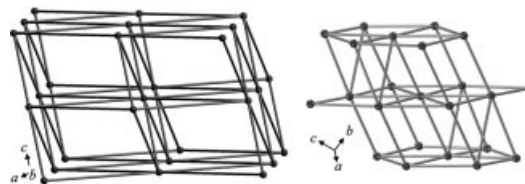
Keywords: Acetate ligands / Di-2-pyridyl ketone / Magnetic properties / Nickel(II) cubanes / Nickel(II) defect dicubanes / X-ray diffraction



2253 J. Zhang, Y. Kang, J. Zhang, Z.-J. Li,
Y.-Y. Qin, Y.-G. Yao*

Syntheses, Structures and Characterisation of Two Cu^{II} Polymers with 8-Connected Topologies Based on Highly Connected SBUs

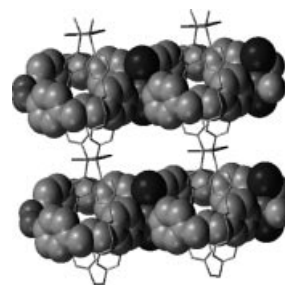
Keywords: Coordination polymers / Copper / Hydrothermal synthesis / Magnetic properties / N ligands



2259 Y. Y. Niu, Y. L. Song, N. Zhang,
H. W. Hou,* D. Che, Y. T. Fan, Y. Zhu,
C. Y. Duan

Reactivity of Polyiodides Towards 1,3-Bis-(4-pyridyl)propane (bpp): A New CuI Cluster Polycatenane Framework and a Novel 2D AgI Cluster Motif

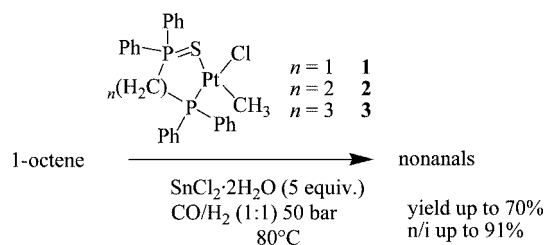
Keywords: Clusters / Copper / Iodine / Lead / Organic#msinorganic hybrid composites / Silver



2268 A. Lofù, P. Mastorilli,* C. F. Nobile,
G. P. Suranna, P. Frediani, J. Iggo

(Diphosphane monosulfide)platinum(II) Complexes for Hydroformylation Reactions: Their Catalytic Activity and a High-Pressure NMR Mechanistic Study

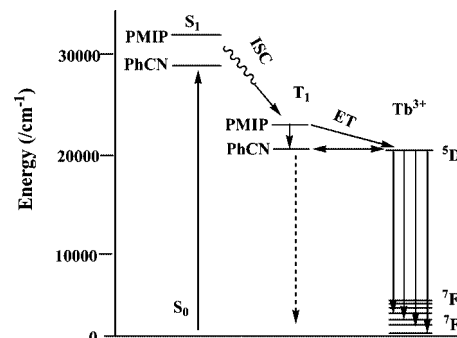
Keywords: Heteroditopic ligands / Hydroformylation / NMR spectroscopy / P,S ligands / Platinum



2277 D. Zhang, M. Shi, Z. Liu, F. Li,* T. Yi,
C. Huang*

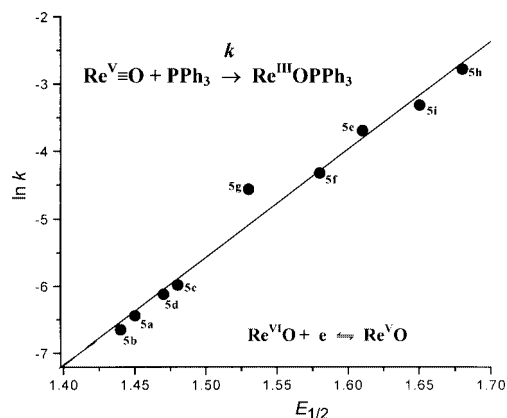
Luminescence Modulation of a Terbium Complex with Anions and Its Application as a Reagent

Keywords: Luminescence modulations / Fluoride anions / Terbium complexes



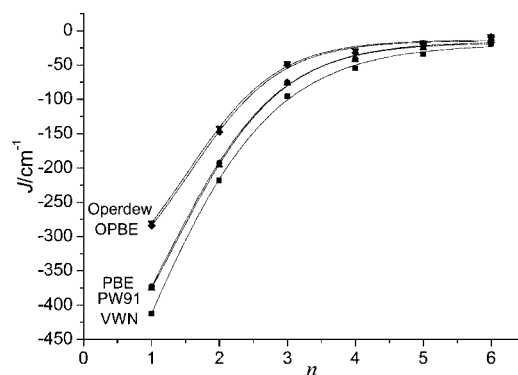
Oxidorhenium(V) Complexes of a Family of Bipyridine-Like Ligands Including Pyridyltriazines and Pyrazinyltriazine: Oxygen-Atom Transfer, Metal Redox and Correlations

Keywords: N ligands / Oxido ligands / Nitrogen heterocycles / Reduction potentials / Rhenium



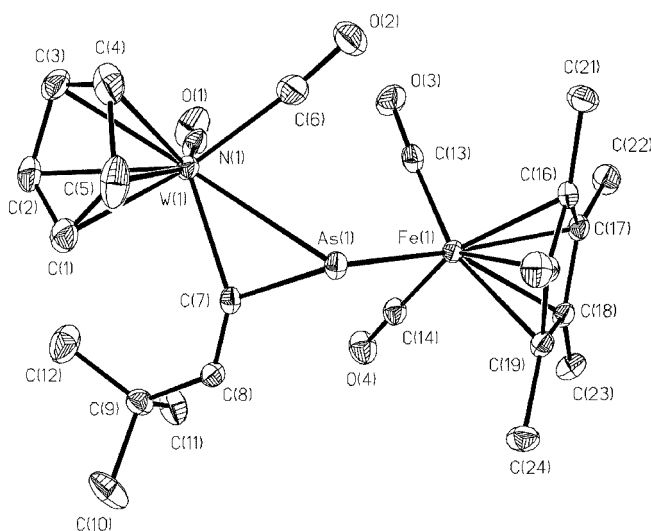
Relationship Between the Nearest-Neighbor Exchange Coupling Constants and the Number of Exchange Interactions in the Cyano-Bridged $\text{MnMo}_6(\text{CN})_{18}$ Cluster: Density Functional Theory Calculations

Keywords: Molecular magnetism / Density functional calculations / Broken symmetry / Cyano-bridged clusters / Single-molecule studies



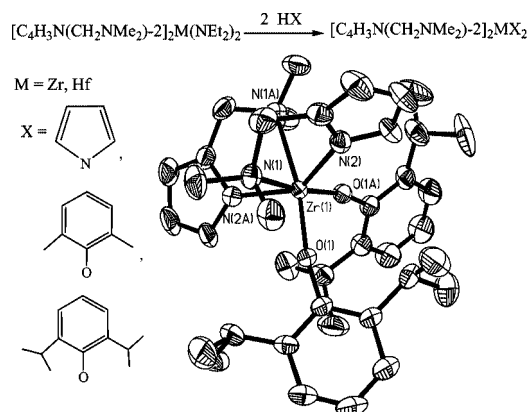
Reactivity of the Inversely Polarised Arsaalkenes $\text{R}-\text{As}=\text{C}(\text{NMe}_2)_2$ { $\text{R} = [(\eta^5\text{-C}_5\text{Me}_5)(\text{CO})_2\text{Fe}]$, $t\text{BuC}(\text{O})$ } Towards Vinylidene Complexes $[\eta^5\text{-}(\text{C}_5\text{H}_5)(\text{CO})(\text{NO})\text{W}=\text{C}=\text{C}(\text{H})\text{R}]$ ($\text{R} = \text{Ph}$, $t\text{Bu}$)

Keywords: Arsaalkenes / Heteroallene ligands / Vinylidene complexes / Tungsten



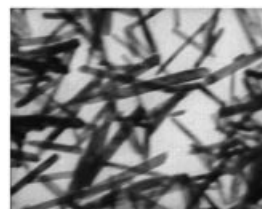
Synthesis and Characterization of Zirconium and Hafnium Aryloxy Compounds and Their Reactivity Towards Lactide and ϵ -Caprolactone Polymerization

Keywords: Hafnium aryloxy / Zirconium aryloxy / Lactide / Caprolactone / Hafnium / Zirconium



Facile and Selected-Control Synthesis of β - MnO_2 Nanorods and Their Magnetic Properties

Keywords: β -Manganese dioxide / Nanostructures / Hydrothermal synthesis / Magnetic properties



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