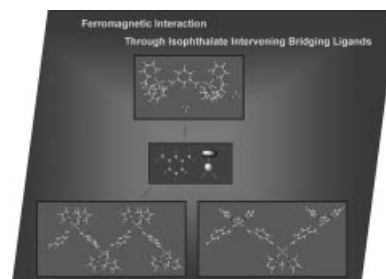


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COVER PICTURE

The cover picture shows how the isophthalate-bridged structures are tuned by various polydentate ligands from tetradentate ligand tpa to tridentate ligand tpm to bidentate ligand bpm, which results in one dinuclear and two one-dimensional complexes, $[\text{Cu}_2(\text{tpa})_2(m\text{-bda})](\text{ClO}_4)_2$ (1), $\{[\text{Cu}_2(\text{tpm})_2(m\text{-bda})_2] \cdot 2\text{CH}_3\text{OH} \cdot 4\text{H}_2\text{O}\}_n$ (2) and $\{[\text{Cu}_2(\text{bpm})_2(m\text{-bda})_2(\text{H}_2\text{O})] \cdot \text{CH}_3\text{CN} \cdot \text{H}_2\text{O}\}_n$ (3). The variable-temperature magnetic behavior reveals the existence of ferromagnetic interactions in them. Details of synthesis and characterization of these complexes are given in the article by P. Cheng et al. on p. 2297ff.



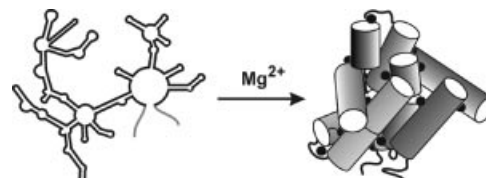
MICROREVIEW

Contents

2281 R. K. O. Sigel*

Group II Intron Ribozymes and Metal Ions – A Delicate Relationship

Keywords: Bioinorganic chemistry / Ribozymes / RNA structures / Metal ions / Calcium

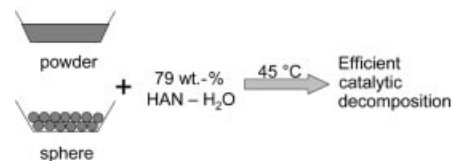


SHORT COMMUNICATION

2293 L. Courthéoux, D. Amariei, S. Rossignol,*
C. Kappenstein

Facile Catalytic Decomposition at Low Temperature of Energetic Ionic Liquid as Hydrazine Substitute

Keywords: Platinum-based catalyst / Sol-gel synthesis / Ionic liquids / Alumina-silica / Catalyst activity

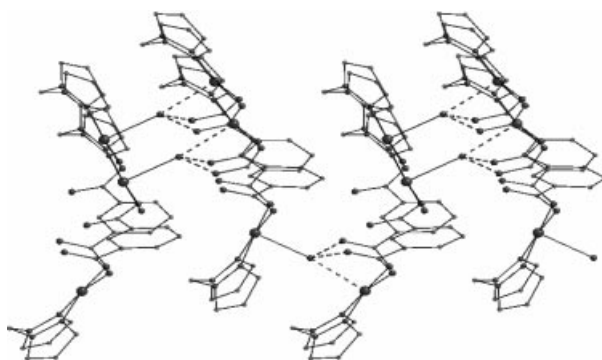


FULL PAPERS

2297 W.-Z. Shen, X.-Y. Chen, P. Cheng,*
S.-P. Yan, B. Zhai, D.-Z. Liao, Z.-H. Jiang

A Structural and Magnetic Investigation of Ferromagnetically Coupled Copper(II) Iso-phthalates

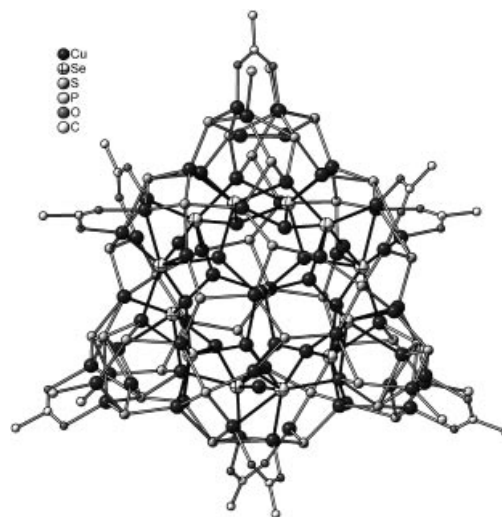
Keywords: Copper / Magnetic properties / N ligands / Organic-inorganic hybrid composites



2306 O. Fuhr,* L. Fernandez-Recio, D. Fenske

New Copper Chalcogenide Clusters with a Selenide Core and a Sulfide Shell

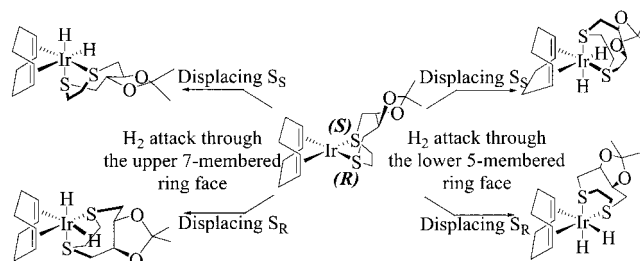
Keywords: Cluster compounds / Chalcogens / Copper / S ligands



2315 L. Flores-Santos, E. Martin,*
A. Aghmiz, M. Diéguez, C. Claver,
A. M. Masdeu-Bultó,*
M. Muñoz-Hernández

Cationic Iridium Complexes with Chiral Dithioether Ligands: Synthesis, Characterisation and Reactivity under Hydrogenation Conditions

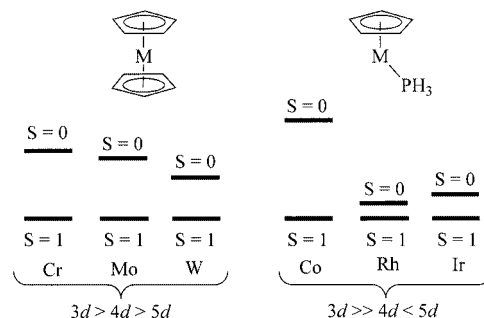
Keywords: Chiral auxiliaries / S ligands / Iridium / Hydrides / Asymmetric catalysis



2324 R. Poli,* I. Cacelli

Orbital Splitting and Pairing Energy in Open-Shell Organometallics: A Study of Two Families of 16-Electron Complexes $[\text{Cp}_2\text{M}]$ ($\text{M} = \text{Cr}, \text{Mo}, \text{W}$) and $[\text{CpM}(\text{PH}_3)]$ ($\text{M} = \text{Co}, \text{Rh}, \text{Ir}$)

Keywords: Density functional calculations / Metallocenes / Open-shell organometallics / Pairing energy / Singlet–triplet gap

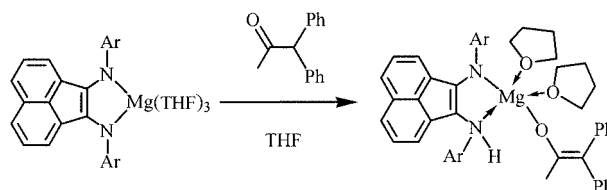


2332 I. L. Fedushkin,* A. A. Skatova, G. K. Fukin, M. Hummert, H. Schumann*



Addition of Enolisable Ketones to (dpp-bian)- $\text{Mg}(\text{THF})_3$ [dpp-bian = 1,2-Bis{(2,6-diisopropylphenyl)imino}acenaphthene]

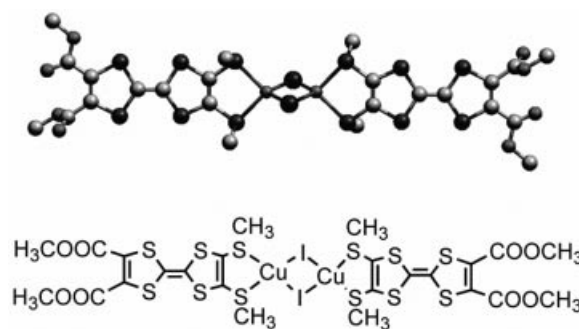
Keywords: Enolisation / Ketones / Magnesium / N ligands



2339 W. Lu, Z.-M. Yan, J. Dai,* Y. Zhang, Q.-Y. Zhu, D.-X. Jia, W.-J. Guo

Coordination Assembly of TTF Derivatives through CuI Bridges

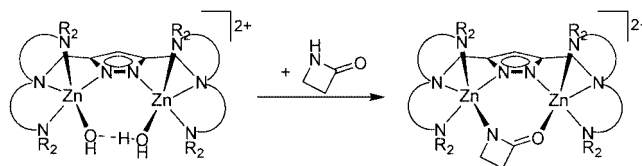
Keywords: Tetrathiafulvalene / Copper(I) complexes / Crystal structures / Molecular assembly



2346 F. Meyer,* H. Pritzkow

Bridging β -Lactam Coordination at Dinuclear Zinc Sites

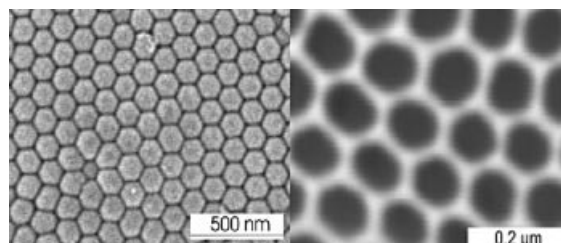
Keywords: Dinuclear complexes / Metalloenzymes / N ligands / Pyrazolate ligands / Zinc



2352 J. J. Schneider,* J. Engstler, K. P. Budna, C. Teichert, S. Franzka

Freestanding, Highly Flexible, Large Area, Nanoporous Alumina Membranes with Complete Through-Hole Pore Morphology

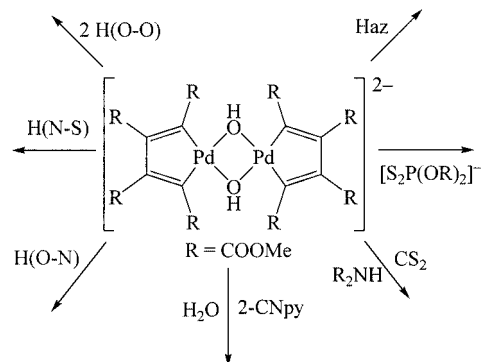
Keywords: Alumina / Electrochemistry / Porous template / Oxidation



2360 G. Sánchez,* J. Vives, G. López,
J. L. Serrano, L. García, J. Pérez

Exploring the Reactivity towards Acidic Protic Ligands of the Di- μ -hydroxo Complex $[\text{NBu}_4]_2[\text{Pd}_2\{\text{C}_4(\text{COOMe})_4\}_2(\mu\text{-OH})_2]$: A Convenient Precursor in the Preparation of New Palladacyclopentadiene Complexes

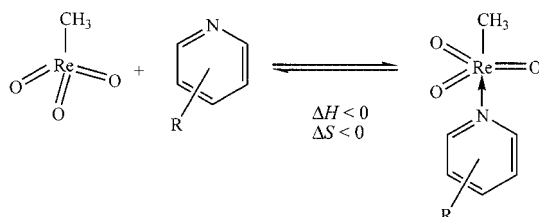
Keywords: Palladacyclopentadiene complexes / Hydroxo complexes / Metallacycles / Cycloaddition



2368 S. M. Nabavizadeh,* A. Akbari, M. Rashidi

Thermodynamic Study of the Binding of Methyltrioxorhenium with Pyridine and Its Derivatives in Benzene Solution

Keywords: N ligands / Rhenium / Thermodynamics

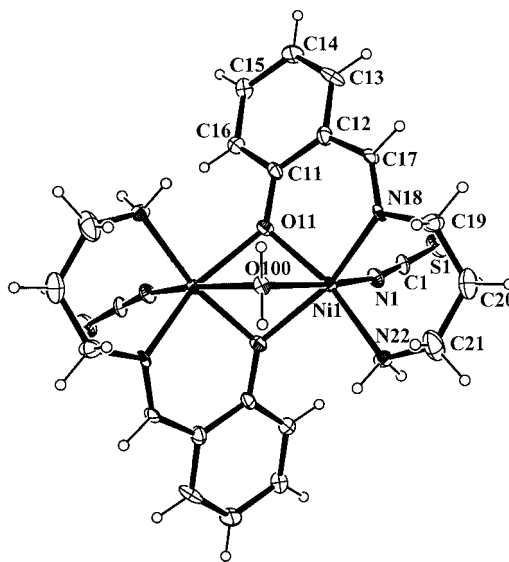


R = H; 4-Me; 3-Me; 4-C(CH₃)₃; 3-C(O)OMe; 3,4-Me₂; 3-Cl; 3-Ph and 4-CH₂Ph

2376 S. Banerjee, M. G. B. Drew, C.-Z. Lu,
J. Tercero, C. Diaz,* A. Ghosh*

Dinuclear Complexes of M^{II} Thiocyanate (M = Ni and Cu) Containing a Tridentate Schiff-Base Ligand: Synthesis, Structural Diversity and Magnetic Properties

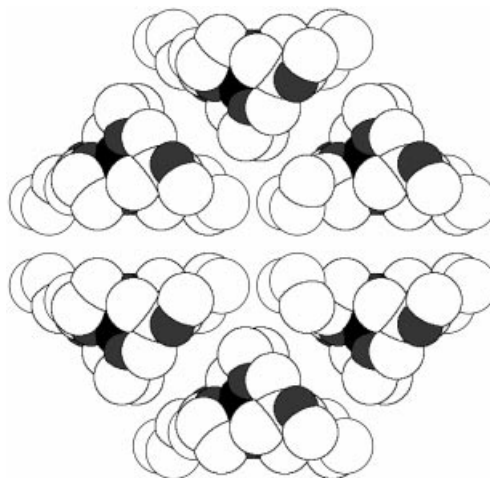
Keywords: Copper / Nickel / N,N,O ligands / Schiff-base ligands / Magnetic properties / Crystal structures



2384 J. M. Harrowfield,* G. A. Koutsantonis,
G. L. Nealon, B. W. Skelton, A. H. White

Amphiphile Structures in the Solid State: Complex Cations with Lipophilic Substituents

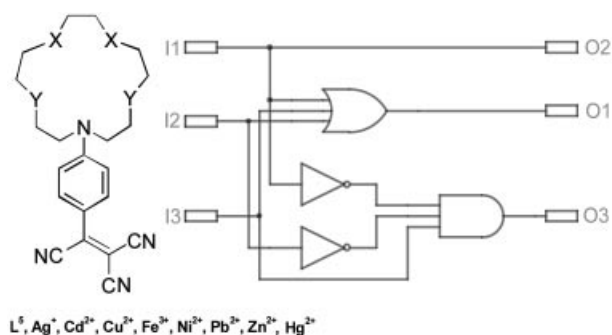
Keywords: Cage complexes / Lipophilicity / Solid state structures



- 2393** D. Jiménez, R. Martínez-Máñez,*
F. Sancenón, J. V. Ros-Lis, J. Soto,
Á. Benito, E. García-Breijo

Multi-Channel Receptors and Their Relation to Guest Chemosensing and Reconfigurable Molecular Logic Gates

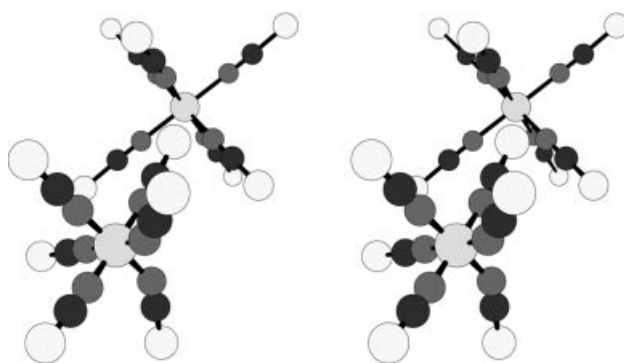
Keywords: Cations / Chemosensing / Chromophores / Electrochemistry / Molecular logic gates



- 2404** A. W. Addison,* R. J. Butcher,
Z. Homonnay, V. V. Pavlishchuk,
M. J. Prushan, L. K. Thompson

The Hexakis(thiocyanato)ferrate(III) Ion: a Coordination Chemistry Classic Reveals an Interesting Geometry Pattern for the Thiocyanate Ligands

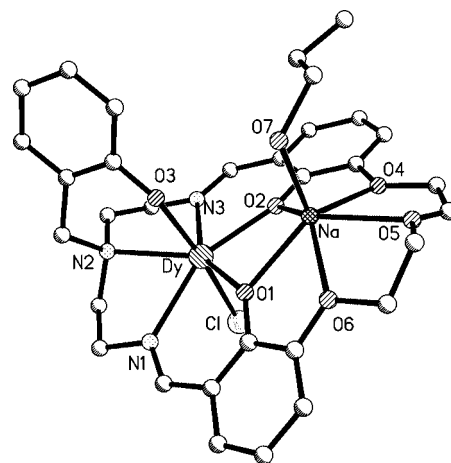
Keywords: Iron / Thiocyanate / X-ray diffraction / Magnetic properties / IR spectroscopy / Moessbauer spectroscopy / Coordination modes / Isomers



- 2409** S. Tamburini,* U. Casellato, L. Bertolo,
P. A. Vigato

[1+1] Asymmetric Compartmental Macrocycles Bearing a Pendant Arm and Related *s,f*-Heterodinuclear Complexes Containing Lanthanide(III) and Sodium Ions

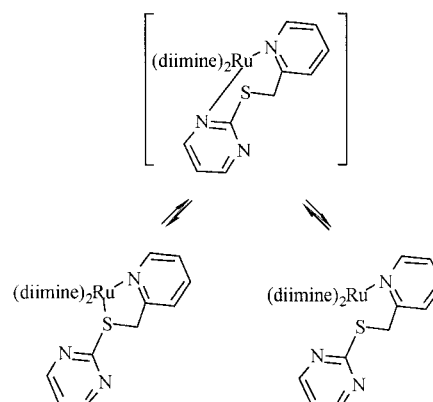
Keywords: Compartmental macrocycles / Lanthanides / Schiff bases / NMR of paramagnetic systems / Shift reagents / ^{23}Na NMR



- 2423** G. Tresoldi,* L. Baradello, S. Lanza,
P. Cardiano

Hemilabile Thioether Ligands Based on Pyrimidine and/or Pyridine Derivatives that Interconvert between *N,S*- and *N*-Coordination in Congested Ruthenium(II) Complexes

Keywords: Ruthenium / Pyridine thioether / Pyrimidine thioether / *N,S*-Coordination / *N*-Coordination

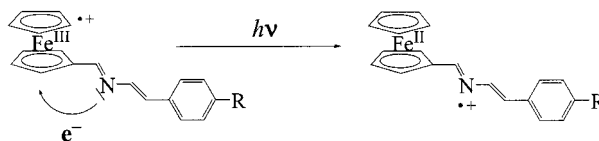


2436

V. Lloveras, A. Caballero, A. Tárraga,
M. Desamparados Velasco, A. Espinosa,
K. Wurst, D. J. Evans, J. Vidal-Gancedo,
C. Rovira, P. Molina,* J. Veciana*



Synthesis and Characterization of Radical Cations Derived from Mono- and Biferrocenyl-Substituted 2-Aza-1,3-butadienes: A Study of the Influence of an Asymmetric and Oxidizable Bridge on Intramolecular Electron Transfer

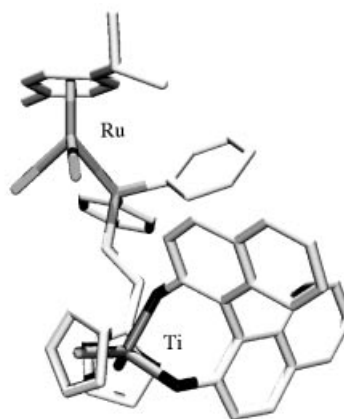


Keywords: Charge transfer / Electrochemistry / Electron transfer / Metallocenes / Optical spectroscopy

2451

L. Bareille, P. Le Gendre,* P. Richard,
C. Moïse*

Towards a Library of “Early-Late” Ti–Ru Bimetallic Complexes

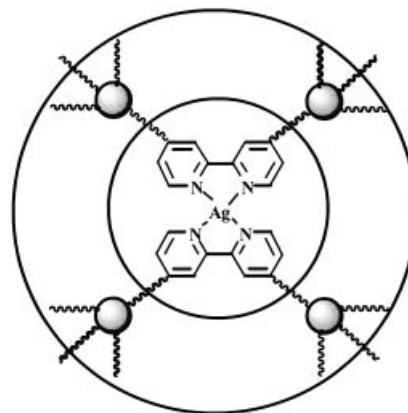


Keywords: Heterometallic complexes / Metallocenes / Ruthenium / Titanium

2457

D. Pucci,* G. Barberio, A. Bellusci,
A. Crispini, M. La Deda, M. Ghedini,
E. I. Szerb

Induction of Columnar Mesomorphism in Tetracoordinated Ionic Silver(I) Complexes Based on Chelate 4,4′-Disubstituted 2,2′-Bipyridines

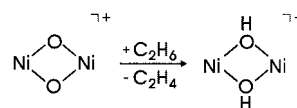


Keywords: Bipyridine ligands / Silver / Metallomesogens / Ionic / Luminescence

2464

K. Koszinowski, M. Schlangen, D. Schröder,
H. Schwarz*

Formation, Structure, and Reactivity of Gaseous Ni_2O_2^+



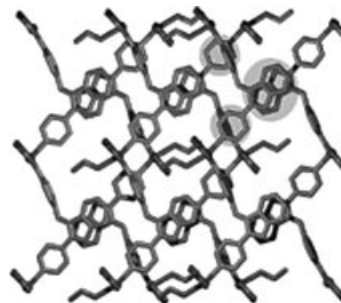
Keywords: Catalysis / C–H bond activation / Gas-phase reactions / Metal clusters / Nickel / Transition-metal oxides

2470 Y. Mulyana, C. J. Kepert,* L. F. Lindoy,*
J. C. McMurtrie



New Cadmium(II) and Iron(II) Coordination Frameworks Incorporating a Di(4-pyridyl)iso-indoline Ligand

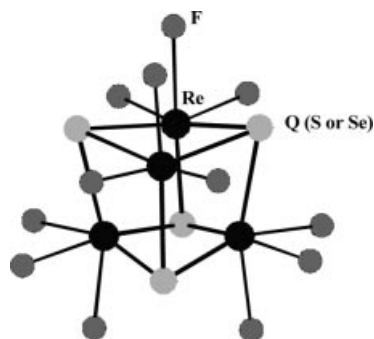
Keywords: Cadmium / Iron / Molecular framework



2476 Y. V. Mironov, S. S. Yarovoi, D. Y. Naumov,
N. V. Kuratieva, S. G. Kozlova, A. Simon,
V. E. Fedorov*

First Examples of Chalcofluoride Rhenium Cluster Complexes with Cubane-Like Anions $[\text{Re}_4\text{Q}_4\text{F}_{12}]^{4-}$ (Q = S, Se)

Keywords: Tetrahedral rhenium cluster / Chalcofluoride complexes / Density functional calculations



2480 S. Groysman, E. Sergeeva, I. Goldberg,
M. Kol*

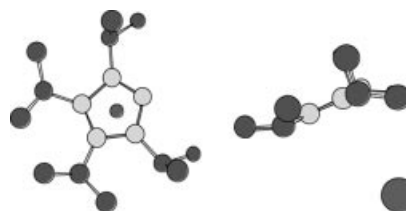
Salophan Complexes of Group IV Metals

Keywords: Salophan / Tetradentate ligands / N,O ligands / Coordination modes / Octahedral complexes / Titanium / Zirconium

2486 L. Brachais, M. Visseaux*

NMR T_1 -Relaxation Measurements on Paramagnetic Organolanthanides: An Alternative Tool for Structure Determination in Solution

Keywords: Spin-lattice relaxation times / Paramagnetic complexes / Lanthanides / NMR spectroscopy

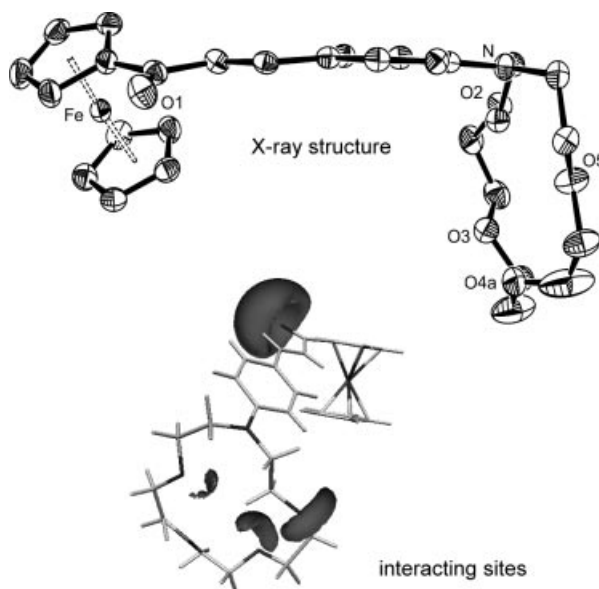


2493 B. Delavaux-Nicot,* J. Maynadié,
D. Lavabre, C. Lepetit, B. Donnadieu



The First X-ray Characterized Monosubstituted Ferrocenyl Azacrown Chalcone: Focus on Its Calcium Interaction/Electrochemical Detection Studies

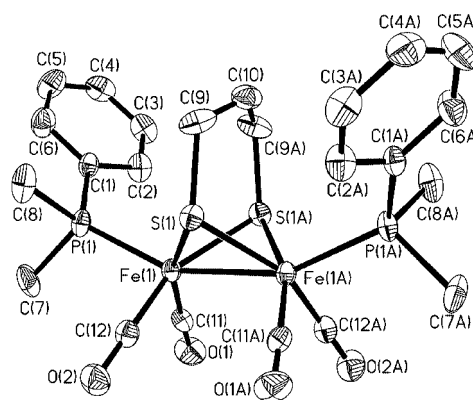
Keywords: Calcium / Cations / Crown compounds / Ferrocene / Sensors



2506 P. Li, M. Wang,* C. He, G. Li, X. Liu,
C. Chen, B. Åkermark, L. Sun*

Influence of Tertiary Phosphanes on the Coordination Configurations and Electrochemical Properties of Iron Hydrogenase Model Complexes: Crystal Structures of $[(\mu-S_2C_3H_6)Fe_2(CO)_{6-n}L_n]$ ($L = PMe_2Ph$, $n = 1, 2$; PPh_3 , $P(OEt)_3$, $n = 1$)

Keywords: Binuclear iron complexes / Bioinorganic chemistry / Carbonyl displacement / Fe-only hydrogenase / P ligands

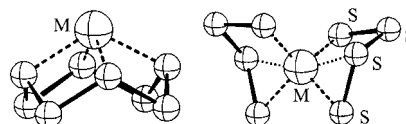


2514 Y. Steudel, M. W. Wong, R. Steudel*



Coordination of Li^+ , Ca^+ , V^+ , and Cu^+ to the Molecules S_8 and S_4 – A Computational Study

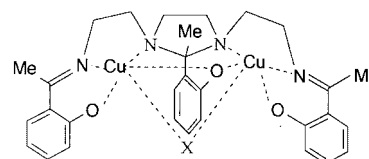
Keywords: Ab initio calculations / S ligands / Cluster compounds / Lithium / Calcium / Vanadium / Copper



2526 M. Bera, W. T. Wong, G. Aromí, D. Ray*

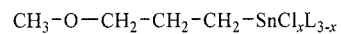
$\mu-\eta^1:\eta^1-N,N'$ -Imidazolidine-Bridged Dicopper(II/III) Complexes of a New Dinucleating μ -Bis-(tetradentate) Schiff Base Ligand: Synthesis, Structural Characterization, 1H NMR Spectroscopy, and Magnetic Coupling

Keywords: N,O ligand / Imidazolidine / Copper complexes / Magnetic properties

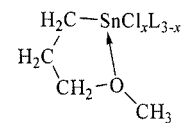


X = OAc^- , NO_3^- , Cl^- , $MeOCS_2^-$

A Comparative Assessment of the Effect of the Lewis Acidity of the Central Tin Atom on Intramolecular Coordination of (3-Methoxypropyl)stannanes



L = Ph or S₂CNEt₂ x = 0, 1 or 2



Keywords: Tin / Chelates / O ligands / Structure elucidation / Coordination modes



The Additive Nature of Energy Penalties in 10-Vertex *nido*-(Car)boranes

Keywords: Boranes / Carboranes / Density functional theory / Energy penalties / Structural increment system

