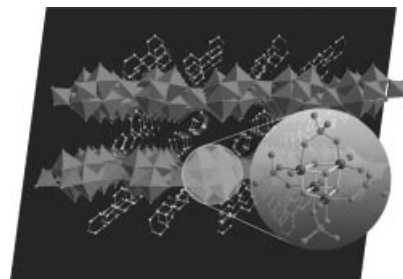


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COVER PICTURE

The cover picture shows a view in perspective of a novel phosphovanadate layered structure intercalated by 4,4'-bipyridinium cations which act as hydrogen-bonded pillars between adjacent layers. These inorganic layers are constructed by an unprecedented secondary tetrametallic V^V building unit exhibiting a distorted cubane-type structural motif. Details are discussed in the article by J. Rocha et al. on p. 3031 ff.



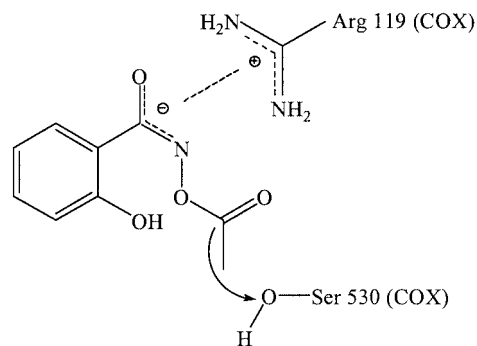
MICROREVIEW

Contents

3003 C. J. Marmion,* D. Griffith, K. B. Nolan*

Hydroxamic Acids – An Intriguing Family of
 Enzyme Inhibitors and Biomedical Ligands

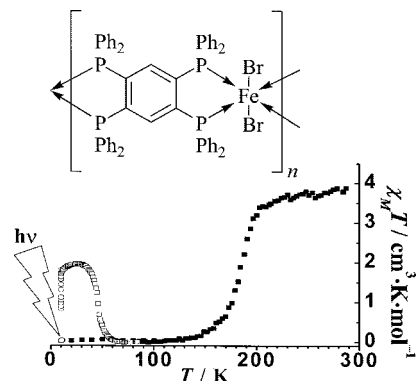
Keywords: Hydroxamic acids / Chelates / Siderophores /
 Enzyme inhibitors / Nitric oxide donors /
 Cyclooxygenase



3017 P. Rosa, A. Debay, L. Capes, G. Chastanet,
A. Bousseksou, P. Le Floch, J.-F. Létard*

Heat- and Light-Induced Spin Transition of an Iron(II) Polymer Containing the 1,2,4,5-Tetrakis-(diphenylphosphanyl)benzene Ligand

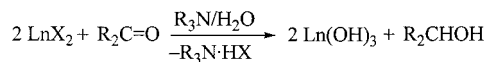
Keywords: Spin crossover / Phosphane ligands / Iron / Photomagnetism / Coordination polymers



3020 A. Dahlén, G. Hilmersson*



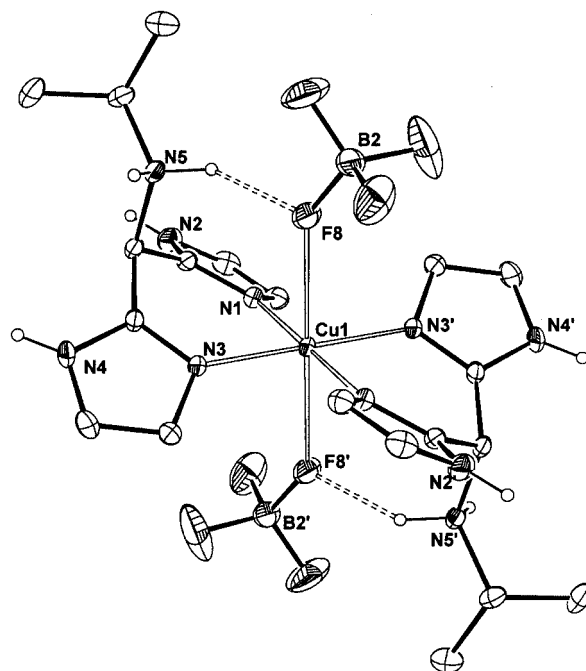
Microwave-Assisted Generation of Lanthanide(II) Halides in THF and Simple Quantitative Determination



Keywords: Microwave-assisted reactions / Lanthanides / Halides / Titrations / Quantitative determinations

3025 Y. Song, C. Massera, P. Gamez,
A. M. M. Lanfredi, J. Reedijk*

Stabilization of a Copper(II) Complex by Hydrogen Bonds between the Axial Tetrafluoroborate Anion and the Ammonium Group from the Coordinated Cationic Ligand Bis(imidazol-2-yl)-methyl(isopropyl)ammonium

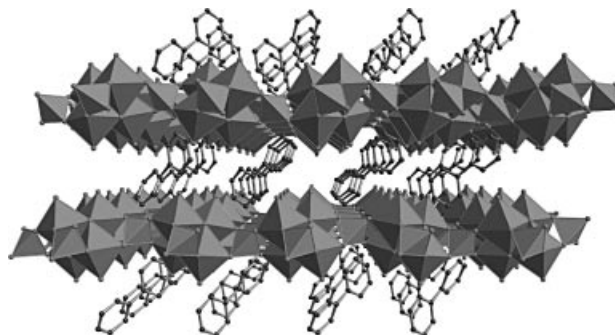


Keywords: Hydrogen bonds / Copper / EPR / N ligands

3031 F.-N. Shi, F. A. A. Paz, J. Rocha,*
J. Klinowski, T. Trindade

Novel Phosphovanadate Layered Structure Assembled from a Tetrametallic Cubane-Like V^V Cluster

Keywords: Organic-inorganic hybrid / Hydrothermal synthesis / Oxo ligands / Vanadium

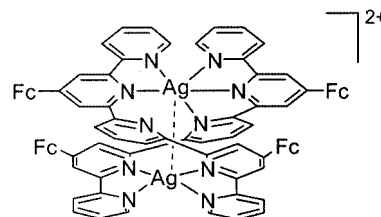


3038 J. E. Aguado, M. J. Calhorda, P. J. Costa,
O. Crespo, V. Félix, M. C. Gimenco,
P. G. Jones, A. Laguna*



Synthesis and Theoretical Studies of a Double Helical Complex with the Ligand 4',4'''-Bis-(ferrocenyl)-2,2':6',2'':6'',2''':6''',2''''-quinquepyridine

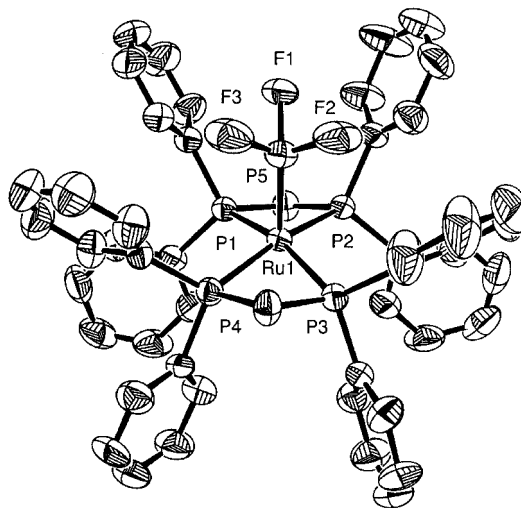
Keywords: Quinquepyridine / Silver / Helical complexes / Ferrocenyl derivatives / Theoretical studies



3048 H. V. Nanishankar, M. Nethaji,
B. R. Jagirdar*

Synthesis and Characterization of the First Examples of Dicationic Dihydrogen Complexes of Iron and Ruthenium with the PF_3 Ligand

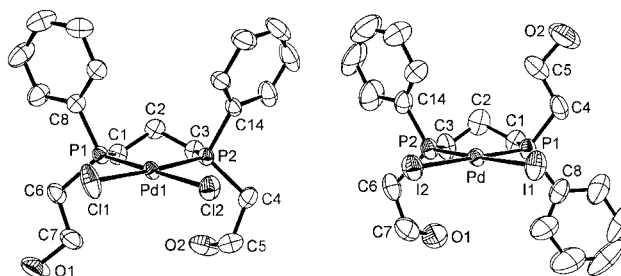
Keywords: Dihydrogen complexes / H-H activation / Hydride ligands / Iron / Phosphane ligands / Ruthenium



3057 U. W. Meier, U. Thewalt, T. Debaerdemaeker,
B. Rieger*

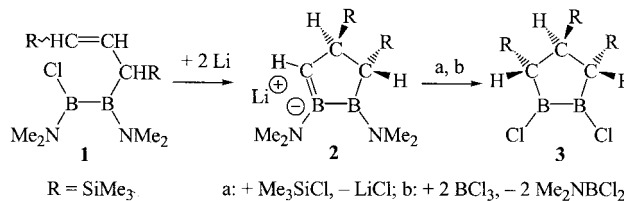
Synthesis and Polymerization Performance of Pd^{II} Complexes of New 2-Hydroxyethyl-Substituted Diphosphane Ligands

Keywords: Homogeneous catalysis / Palladium / Phosphane ligand / Polyketone / Polymerization



3063 C. Präsang, Y. Sahin, M. Hofmann,
G. Geiseler, W. Massa, A. Berndt*

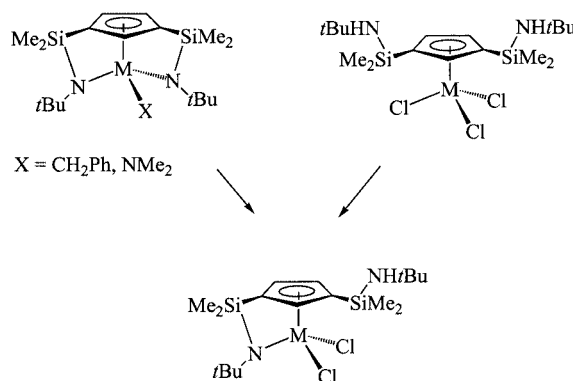
Syntheses and Reactions of a Stable 1,2-Dichloro-1,2-diborolane and Aromatic Tetra-boranes



Keywords: Aromatics / Boranes / Carbanions / Cyclizations / Heterocycles / Rearrangements

3074 M. Sudupe, J. Cano, P. Royo,*
E. Herdtweck

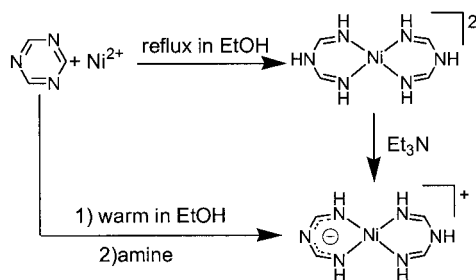
Studies Related to the Chloro Titanium and Zirconium Complexes with [η^5 -Cyclopentadienyldi(silylamido)] Ligands



Keywords: Zirconium / Titanium / Silylamido / Cyclopentadienyl-N ligands

3084 T. Kajiwar, T. Ito

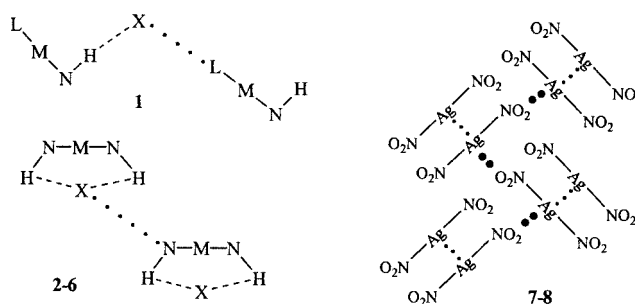
1,3,5-Triazapentanediene, A Novel Tridentate Ligand that Bridges Two Metal Ions in a $\kappa^1\text{N}:\kappa^2\text{N}$ Bridging Mode with C_2 Symmetry



Keywords: Chelates / Coordination modes / N ligands / Nickel

3089 M. L. Gallego, P. Obejero, M. Cano,*
J. V. Heras, J. A. Campo, E. Pinilla,
M. R. Torres

(Pyrazole)silver(I) and -gold(I) Complexes with Strong and Weak Hydrogen-Bonding Interactions as the Basis of One- or Two-Dimensional Structures



Keywords: Hydrogen bonds / N ligands / Silver / Supramolecular chemistry

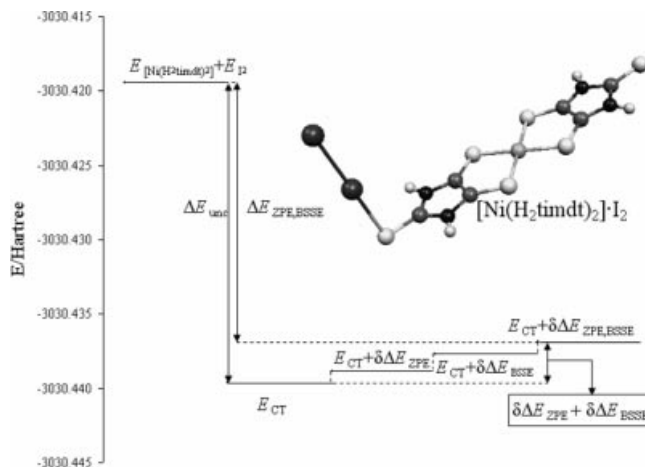
X = counterion; HN = Hpz^{bp2}, L = PPh₃; NO₂ = Hpz^{NO2}

- 3099** M. C. Aragoni, M. Arca,* F. Demartin,
F. A. Devillanova, F. Lelj, F. Isaia,
V. Lippolis, A. Mancini, L. Pala, G. Verani



A Theoretical Investigation of the Donor Ability of $[M(R,R'timdt)_2]$ Dithiolene Complexes towards Molecular Diiodine ($M = Ni, Pd, Pt$; $R,R'timdt$ = Formally Monoreduced Disubstituted Imidazolidine-2,4,5-trithione)

Keywords: Charge transfer / Density functional calculations / Dithiolenes / Iodine / Raman spectroscopy / X-ray diffraction

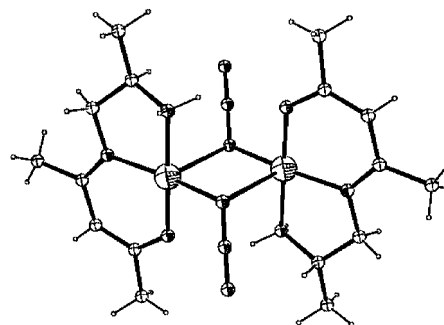


- 3110** M. S. Ray, A. Ghosh,* S. Chaudhuri,
M. G. B. Drew, J. Ribas*



Supramolecular Hydrogen-Bond Structures and Magnetic Interactions in Basal-Apical, Dinuclear, Azide-Bridged Copper(II) Complexes

Keywords: Azides / Copper / Hydrogen bonds / Magnetic properties / N,O ligands / Schiff bases

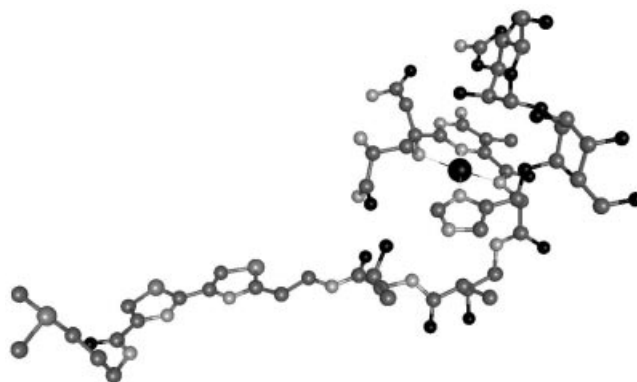


- 3118** A. Papakyriakou, I. Bratsos, M. Katsarou,
N. Katsaros*



Preparation, Structure Determination and Cytotoxicity of the Pd^{II} -Bleomycin A2 Complex

Keywords: Bleomycin / Palladium / Molecular modelling / Cytotoxicity

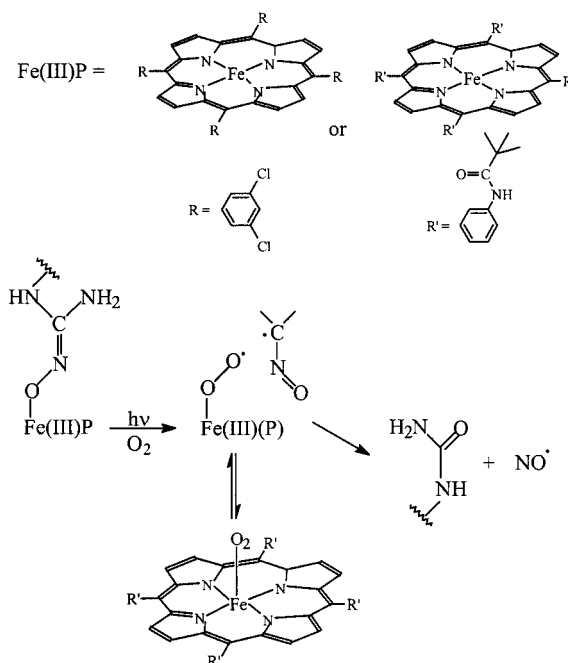


3127

A. Maldotti,* A. Molinari, I. Vitali,
E. Ganzaroli, P. Battioni, D. Mathieu,
D. Mansuy

Oxidation of *N*-(4-Chlorophenyl)-*N'*-hydroxyguanidine to *N*-(4-Chlorophenyl)urea and Nitric Oxide by Photoexcited Iron Porphyrins

Keywords: O–O activation / Nitric oxide / Photo-oxidation / Porphyrins / Protein models

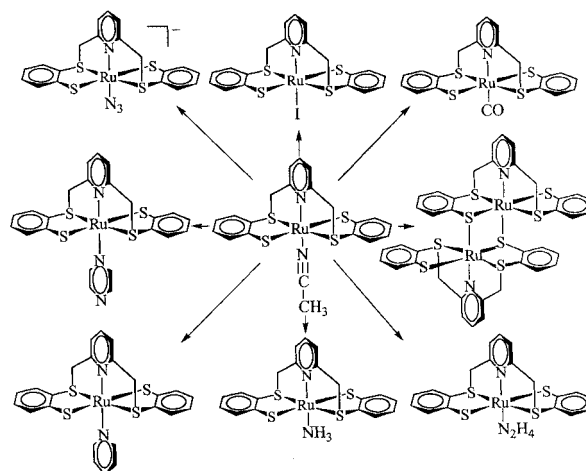


3136

D. Sellmann, K. Hein,* F. W. Heinemann

Ruthenium(II) and Ruthenium(III) Complexes Containing the $[\text{pyS}_4]^{2-}$ Ligand [pyS_4^{2-} = 2,6-Bis(2-mercaptophenylthio)dimethylpyridine(2-)]

Keywords: Ruthenium / S ligands / Oxidation reactions

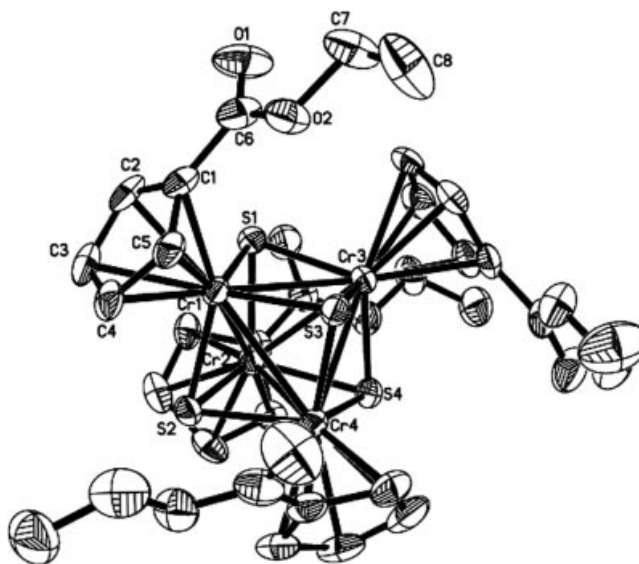


3147

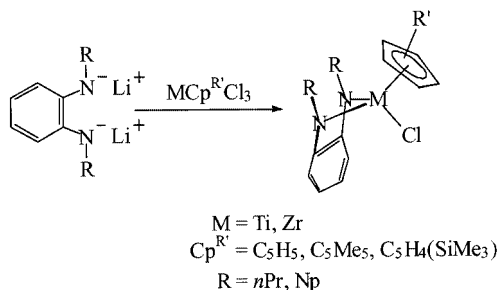
L.-C. Song,* H.-W. Cheng, X. Chen,
Q.-M. Hu

Synthesis and Characterization of Cubane-Like Cr_4E_4 (E = S, Se) Clusters – Molecular Structures of $(\eta^5\text{-RC}_5\text{H}_4)_4\text{Cr}_4\text{E}_4$ (E = S, R = MeCO, MeO₂C, EtO₂C; E = Se, R = H)

Keywords: Clusters compounds / Chromium / Selenium / Cp ligands / Cluster-forming reactions



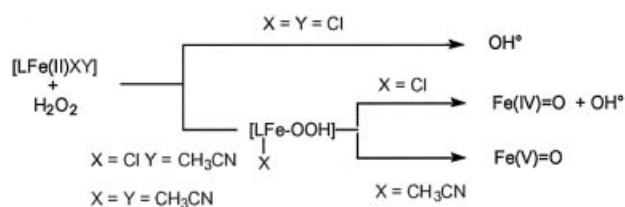
Preparation of Diamidochloro(cyclopentadienyl)-titanium Derivatives as Pre-Catalysts for Olefin Polymerization – X-ray Molecular Structure of $[\text{Ti}(\eta^5\text{-C}_5\text{H}_5)\{\text{1,2-C}_6\text{H}_4(\text{NCH}_2\text{CH}_2\text{CH}_3)_2\}\text{Cl}]$ and $[\text{Ti}(\eta^5\text{-C}_5\text{H}_4(\text{SiMe}_3))\{\text{1,2-C}_6\text{H}_4(\text{NCH}_2\text{CH}_2\text{-CH}_3)_2\}\text{Cl}]$



Keywords: Cyclopentadienyl ligands / N ligands / Olefin polymerization / Titanium

3163 Y. Mekmouche, S. Ménage,* J. Pécaut, C. Lebrun, L. Reilly, V. Schuenemann, A. Trautwein, M. Fontecave

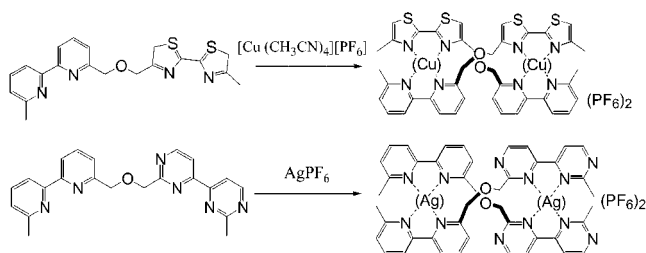
Mechanistic Tuning of Hydrocarbon Oxidations with H_2O_2 , Catalyzed by Hexacoordinate Ferrous Complexes



Keywords: Iron catalysts / Hydrogen peroxide / Oxidation / Non-heme iron / Monooxygenase

3172 J. Mathieu, N. Ghermani, N. Bouhaida, B. Fenet, A. Marsura*

An Attempt to Programme the Orientation of Bis(heterocyclic) Azine Heterotopic Sequences around Ag^{I} , Cu^{I} and Zn^{II} Metal Centres



Keywords: Self-assembly / Self-recognition / Heterocyclic bidentate sequences / Cu^{I} , Ag^{I} , Zn^{II} metal complexes