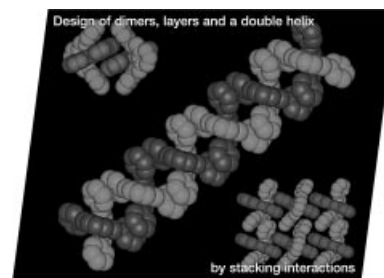


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COVER PICTURE

The cover picture shows the self-assembly of two selected terpy-type ligands by π - π stacking around the Zn^{2+} ion to form isolated “heterodimers” (top left with terpy and a bis-Schiff-base ligand), 2D layers (bottom right with a hydrazone bis-pyridine ligand and a bis-Schiff-base ligand) and a double helix (on the diagonal, with only bis-Schiff-base ligands). In addition a 1D stacked layer could be synthesized. Further details may be found in the article by M. Barboiu et al. on p. 4255ff.



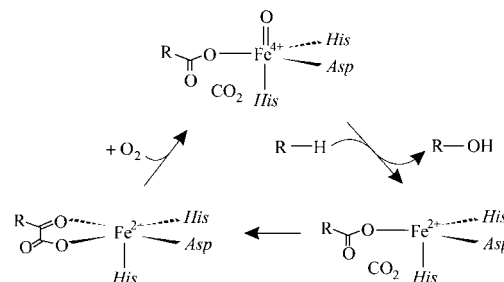
MICROREVIEW

Contents

4245 J. M. Bollinger Jr.,* J. C. Price, L. M. Hoffart, E. W. Barr, C. Krebs*

Mechanism of Taurine: α -Ketoglutarate Dioxygenase (TauD) from *Escherichia coli*

Keywords: Bioinorganic chemistry / Metalloenzymes / Reaction intermediates / Oxygen activation / Iron

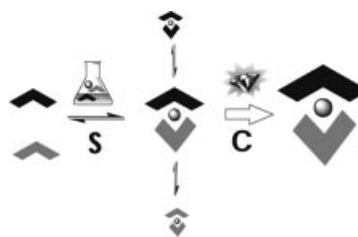


FULL PAPERS

4255 F. Dumitru, E. Petit, A. van der Lee, M. Barboiu*

Homo- and Heteroduplex Complexes Containing Terpyridine-Type Ligands and Zn^{2+}

Keywords: Crystal engineering / N ligands / Supramolecular chemistry / Ternary complexes / Zinc

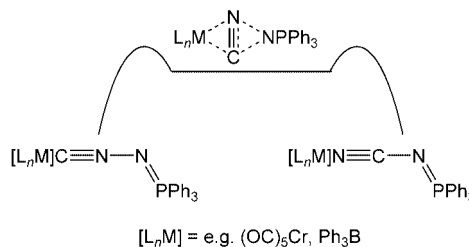


4263 H. Stolzenberg, B. Weinberger, W. P. Fehlhammer,* F. G. Pühlhofer, R. Weiss



Free and Metal-Coordinated (*N*-Isocyanimino)-triphenylphosphorane: X-ray Structures and Selected Reactions

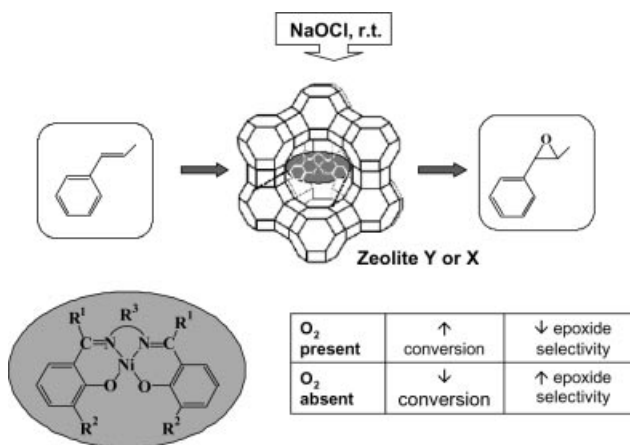
Keywords: Chromium / Isocyanide ligands / Isomerisation / Phosphoranes / Tungsten / Quantum chemical calculations



4272 R. Ferreira, H. García, B. de Castro, C. Freire*

(Salen)nickel-Catalysed Epoxidations in the Homogeneous and Heterogeneous Phase: The Implications of Oxygen on the Efficiency and Product Selectivity

Keywords: Alkenes / Epoxidation / Heterogeneous catalysis / N,O ligands / Nickel / Zeolites

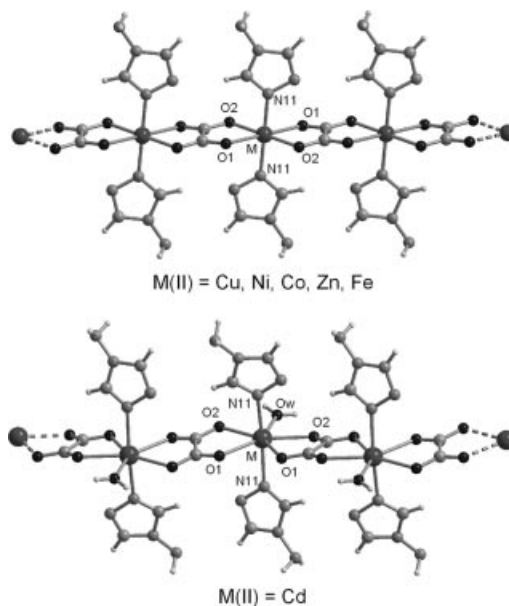


4280 U. García-Couceiro, O. Castillo,* A. Luque,* J. P. García-Terán, G. Beobide, P. Román



One-Dimensional Oxalato-Bridged Metal(II) Complexes with 4-Amino-1,2,4-triazole as Apical Ligand

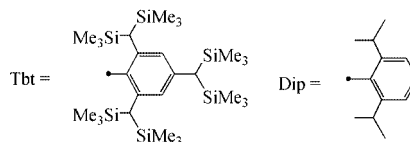
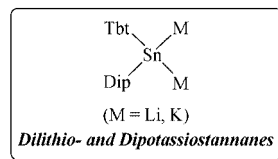
Keywords: Chain structures / Oxalato bridging ligand / Triazole / X-ray diffraction / Structure–magnetism relationships



4291 T. Tajima, N. Takeda, T. Sasamori,
N. Tokitoh*

Generation and Reactions of Overcrowded
Diaryldilithiostannane and Diaryldipotassio-
stannane

Keywords: Group 14 elements / Tin / Anions /
Lithium / Potassium / Solid-state structures

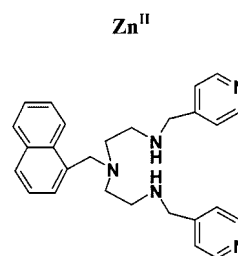


4301 R. Aucejo, J. Alarcón, E. García-España,*
J. M. Llinares, K. L. Marchin, C. Soriano,
C. Lodeiro, M. A. Bernardo, F. Pina,*
J. Pina, J. Seixas de Melo



A New Zn^{II} Tweezer Pyridine-Naphthalene
System – An Off-On-Off System Working in a
Biological pH Window

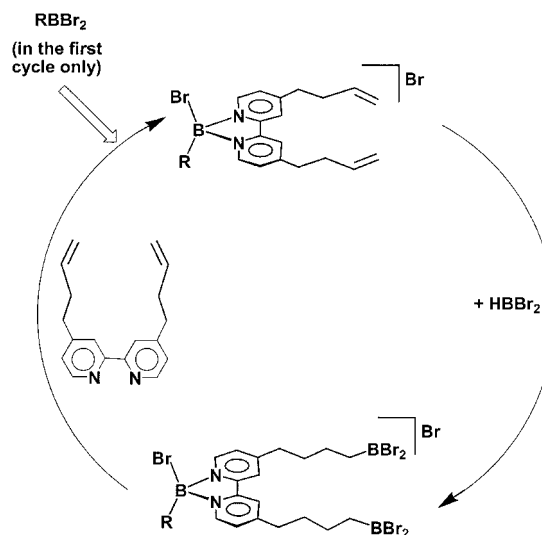
Keywords: Luminescence / N ligands / Sensors / Zinc



4309 M. C. Haberecht, M. Bolte, H.-W. Lerner,
M. Wagner*

An Approach Towards Functional Dendrimers
Based on the Hydroboration Reaction and
Spontaneous Boron–Nitrogen Bond Formation

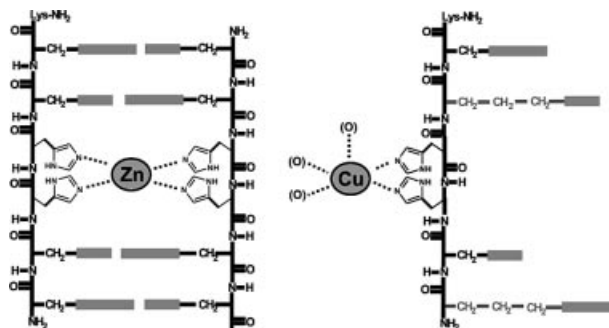
Keywords: Boranes / Dendrimers / Hydroboration /
N ligands



4317 A. Küsel, J. Zhang, M. Alvarino Gil,
A. C. Stückl, W. Meyer-Klaucke,
F. Meyer,* U. Diederichsen*

Metal Binding Within a Peptide-Based Nucleo-
base Stack with Tuneable Double-Strand Topol-
ogy

Keywords: EXAFS spectroscopy / Molecular recogni-
tion / Nucleic acids / Peptides / Protein
models



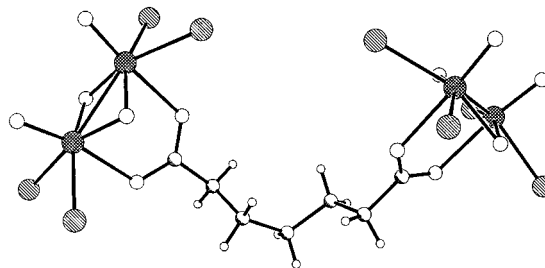
4325

B. Modec,* J. V. Brenčič



Anions of 1,3,5-Benzenetricarboxylic and Heptanedioic Acids Serving as Bridges between Dimolybdenum(v) Metal–Metal Bonded Units: Preparation and Structural Characterization of Dinuclear and Tetranuclear Complexes

Keywords: Molybdenum / Carboxylato complexes / 1,3,5-Benzenetricarboxylate / Heptanedioate

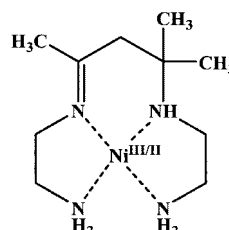


4335

Y. Albo, E. Maimon,* I. Zilbermann, M. Saphier, H. Cohen, D. Meyerstein*

The Redox Chemistry of (*N*¹-[3-(2-aminoethyl-imino)-1,1-dimethylbutyl]ethane-1,2-diamine)-nickel(II) Perchlorate, Ni^{II}L^I(ClO₄)₂, in Aqueous Solutions – A Pulse Radiolytic and an Electrochemical Study

Keywords: Nickel complexes / Pulse radiolysis / Electrochemistry

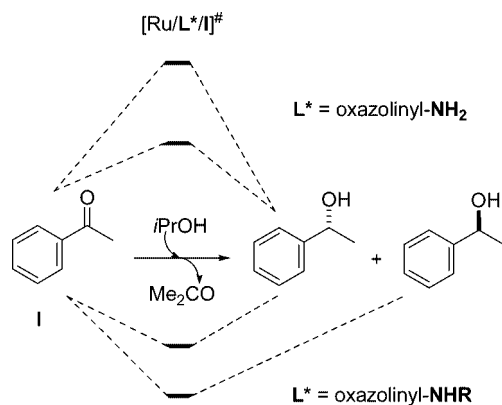


4341

M. Gómez,* S. Jansat, G. Muller, G. Aullón, M. A. Maestro

Ruthenium Complexes Containing Chiral N-Donor Ligands as Catalysts in Acetophenone Hydrogen Transfer – New Amino Effect on Enantioselectivity

Keywords: Ruthenium / Chiral N-donors / Asymmetric catalysis / NMR spectroscopy / Density functional calculations

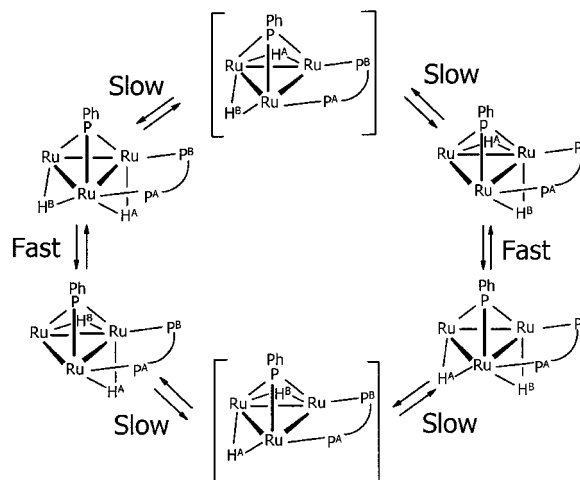


4352

A. J. Deeming,* C. S. Forth, M. I. Hyder, S. E. Kabir, E. Nordlander,* F. Rodgers, B. Ullmann

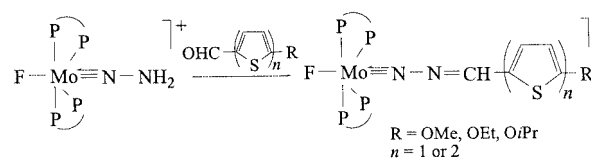
Mechanisms of Concurrent Hydride Migration Processes in a Triruthenium Cluster Capped by a Phenylphosphinidene (PPh) Ligand

Keywords: Ruthenium / Clusters / Hydrides / Dynamic mobility / Kinetics



4361 A. M. Fonseca,* M. M. M. Raposo,
A. R. C. Sousa, G. Kirsch, M. Beley

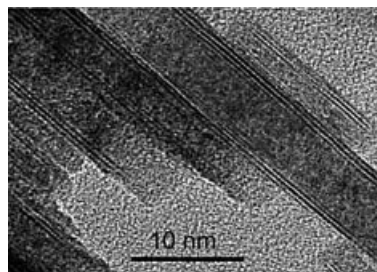
Synthesis and Electrochemical and Spectroscopic Properties of Molybdenum Complexes Bearing 5-Alkoxythiophene or -bithiophene Groups



Keywords: Sulfur heterocycles / Molybdenum / N ligands / Conjugated systems

4366 B. Tang,* J. Ge, L. Zhuo, G. Wang, J. Niu,
Z. Shi, Y. Dong

A Facile and Controllable Synthesis of $\gamma\text{-Al}_2\text{O}_3$ Nanostructures without a Surfactant

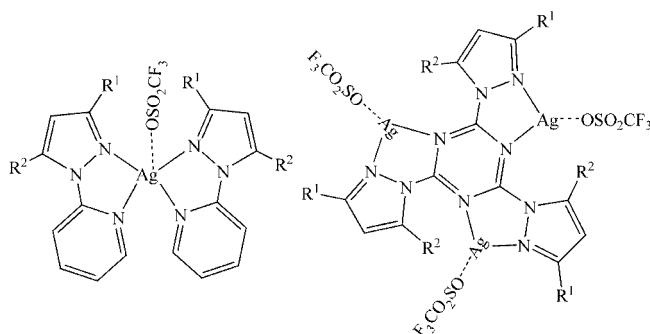


Keywords: γ -Alumina / Materials science / Nanostructures / Solvothermal synthesis

4370 M. L. Gallego, M. Cano,* J. A. Campo,
J. V. Heras, E. Pinilla, M. R. Torres,
P. Cornago, R. M. Claramunt*



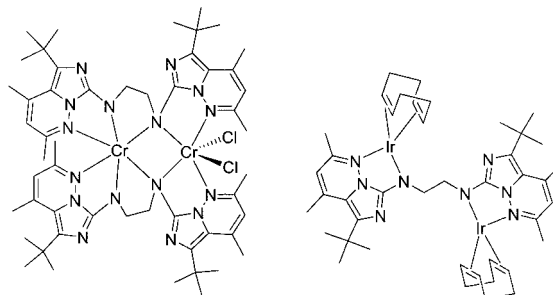
Cationic Silver Coordination Compounds of Polydentate Ligands: Supramolecular Structures of $[\text{Ag}(\text{Pz}^{\text{bp}2}\text{Py})_2(\text{OSO}_2\text{CF}_3)]$ and $[\text{Ag}_2(\text{Pz}^{\text{bp}2}\text{Py})_2(\text{OSO}_2\text{CF}_3)_2]$ $\{\text{Pz}^{\text{bp}2}\text{Py} = 2\text{-}[3,5\text{-Bis(4-butoxyphenyl)pyrazol-1-yl]pyridine}\}$



Keywords: N ligands / NMR spectroscopy / Silver / Supramolecular chemistry

4382 T. Irrgang,* R. Kempe*

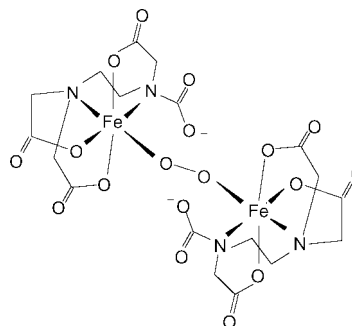
Early and Late Transition Metal Complexes Stabilised by Imidazopyridazine-Substituted Bis-amido Ligands



Keywords: Amido ligands / Imidazo[1,5-*b*]pyridazines / N ligands / Chromium / Iridium / Rhodium / Titanium / Zirconium

4393 V. K. Sharma, P. Á. Szilágyi,
Z. Homonnay,* E. Kuzmann, A. Vértés

Mössbauer Investigation of Peroxo Species in the Iron(III)–EDTA– H_2O_2 System

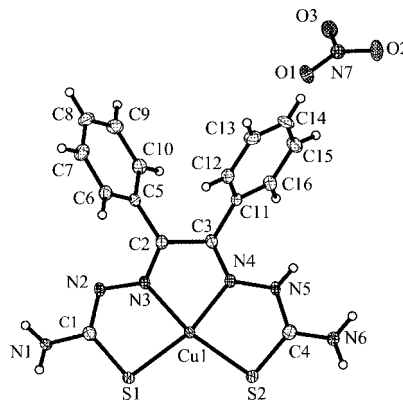


Keywords: Chelates / EDTA / Iron / Mössbauer spectroscopy / Peroxo ligands

- 4401** D. G. Calatayud, E. López-Torres,
M. A. Mendiola,* C. J. Pastor,
J. R. Procopio

Structural Trends in Divalent Benzil Bis(thiosemicarbazone) Complexes

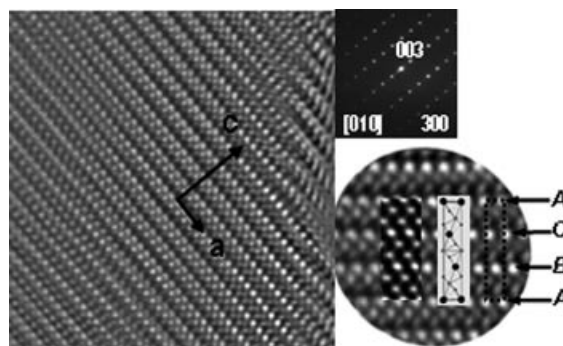
Keywords: Copper / N ligands / S ligands / Thiosemicarbazone complexes / Zinc



- 4410** A. Varela, M. Parras,
J. M. González-Calbet*

Influence of Na Content on the Chemical Stability of Nanometric Layered Na_xRhO_2 ($0.7 \leq x \leq 1.0$)

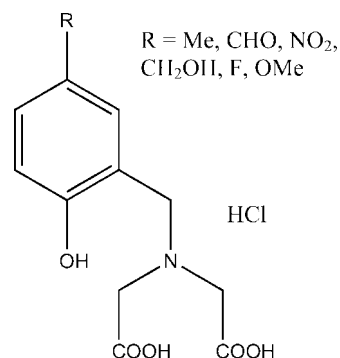
Keywords: Na_xRhO_2 nanoparticles / Layered oxides / High resolution electron microscopy



- 4417** O. Jarjays,* F. Mortini,
A. du Moulinet d'Hardemare, C. Philouze,
G. Serratrice

Tuning pGa with Chelating Agents Related to (*o*-Hydroxybenzyl)iminodiacetic Acid

Keywords: Carboxylate ligands / Gallium / N ligands / Potentiometry / Stability constants

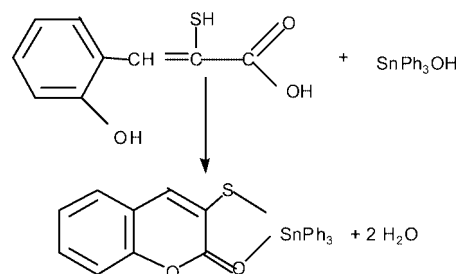


- 4425** P. Álvarez-Boo, J. S. Casas, M. D. Couce,
V. Fernández-Moreira, E. Freijanes,
E. García-Martínez, J. Sordo,
E. Vázquez-López



Formation of 3-Sulfanylcoumarins by SnPh_3OH -Promoted Cyclization of 3-Aryl-2-Sulfanylpropenoic Acids

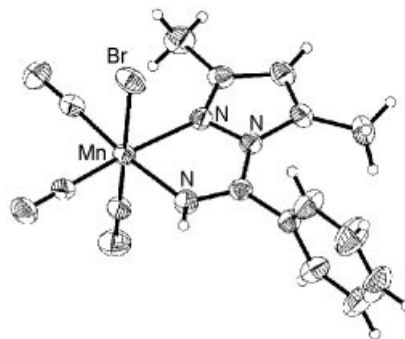
Keywords: Tin / Triphenyltin complexes / 3-(2-hydroxyphenyl)-2-sulfanylpropenoic acids / 3-sulfanylcoumarin / X-ray diffraction



4430 M. Arroyo, Á. López-Sanvicente, D. Miguel,
F. Villafañe*

Pyrazolylamidino- and Bis(pyrazole)manga-
nese(I) Complexes

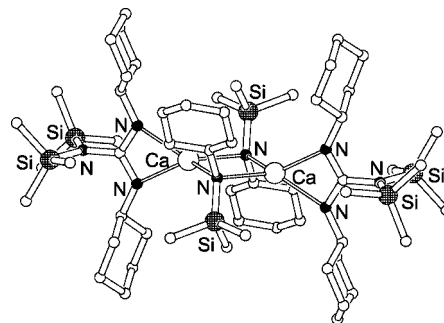
Keywords: Manganese / N ligands / Pyrazole / Pyrazol-
ylamidino ligands



4438 F. Feil, S. Harder*

Guanidinate Complexes of Heavier Alkaline-
Earth Metals (Ca, Sr): Syntheses, Structures,
Styrene Polymerization and Unexpected Reaction
Behaviour

Keywords: Alkaline earth metals / Amides / Amidin-
ates / Guanidines / Polystyrene



CORRECTION

4445 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



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