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COVER PICTURE

The cover picture shows an allegory of bioinorganic chemistry and biomimetic studies. Here, the metalloprotein (human Mn-SOD, PDB-code 1MSD) is posing for the painter. As a bioinorganic chemist, he is designing new molecules that would reproduce this protein activity; he is testing the activity of these molecules and deciphering mechanisms. Here, we show the structure of a small Mn^{II} complex that has been studied for its SOD-like activity by pulsed radiolysis. In the painting, the UV/Vis trace of a multipulse experiment at 300 nm is shown, with successive spikes and plateaus. An overall increase in the absorbance of the successive plateaus is observed. The asterisks indicate irradiations. Simulations of the individual growth of the spikes, of the individual decrease down to the plateau and of the overall increase of the absorbance for the successive plateaus leads to the proposition of a mechanism. This is the triangular cycle shown in the painting, involving an $\{\text{MnOO}\}^6$ adduct between Mn^{II} and superoxide. This label, $\{\text{MnOO}\}^6$, is proposed by analogy with the nomenclature used for iron–nitroxide adducts. Each event indicated in the cycle has been proven. Moreover, this study shows unambiguously that the Mn^{II} compound displays a catalytic activity for superoxide dismutation. Details are presented in the article by J.-P. Renault, C. Policar et al. on p. 2789ff. In the original picture by Magritte, the inset in the lower right-hand corner, is entitled “La clairvoyance” (clear-sightedness) and was painted in 1936.



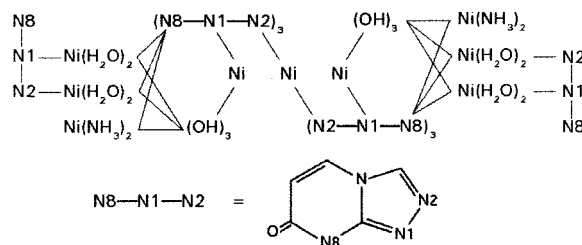
SHORT COMMUNICATIONS

Contents

2779 S. Salameh, M. Abul-Haj, M. Quirós,*
 J. M. Salas

A Nonanuclear Ni^{II} Cluster with a 1,2,4-Triazolo[4,3-*a*]pyrimidine Derivative

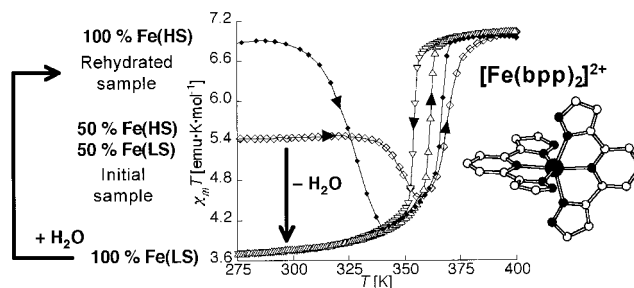
Keywords: Cluster compounds / Nickel / Triazolo-pyrimidine / Magnetic properties



2783 M. C. Giménez-López, M. Clemente-León, E. Coronado,* F. M. Romero,* S. Shova, J.-P. Tuchagues

Structural Transformations and Magnetic Effects Induced by Solvent Exchange in the Spin Crossover Complex $[\text{Fe}(\text{bpp})_2][\text{Cr}(\text{bpy})(\text{ox})_2]_2$

Keywords: Spin crossover / Iron / Solvent sensing / Hydration / Magnetic properties

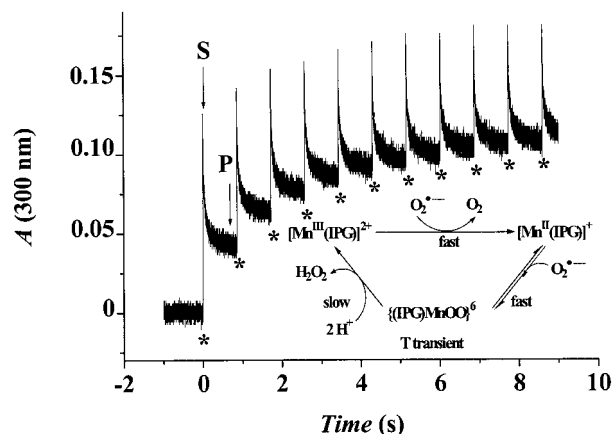


FULL PAPERS

2789 S. Durot, F. Lambert, J.-P. Renault,* C. Policar*

A Pulse Radiolysis Study of Catalytic Superoxide Radical Dismutation by a Manganese(II) Complex with an N-Tripodal Ligand

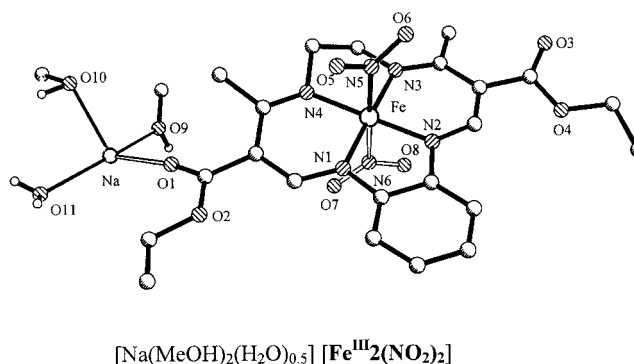
Keywords: Bioinorganic chemistry / Enzyme models / Manganese / Superoxide dismutase / SOD mimic / Pulsed radiolysis / MnOO adduct



2794 B. Weber, I. K  pplinger, H. G  rls, E.-G. J  ger*

The Relationship between the Structure and Magnetic Properties of Bioinspired Iron(II/III) Complexes with Schiff-Base-Like Chelate Ligands, Part I: Complexes with Dianionic $[\text{N}_4]$ Macrocycles

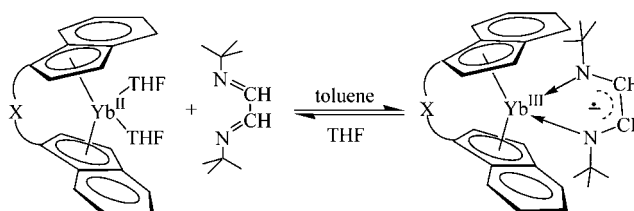
Keywords: Bioinorganic chemistry / Iron / Macrocycles / Magnetic properties / Schiff bases



2812 A. A. Trifonov,* E. A. Fedorova, V. N. Ikorskii, S. Dechert, H. Schumann, M. N. Bochkarev

Solvent-Mediated Redox Transformations of Ytterbium Bis(indenyl)diazabutadiene Complexes

Keywords: Diazadiene ligands / N ligands / Radical ions / Ytterbium

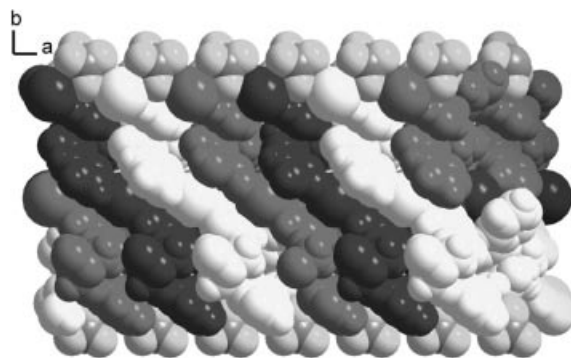


2819 K. I. Nättinen, P. E. N. de Bairos,
P. J. Seppälä, K. T. Rissanen*



Anion Template Effect and the Polymerization Degree – Diversity through Flexibility

Keywords: Crystal engineering / N ligands / Zeolite analogues / Self-assembly / Transition metals

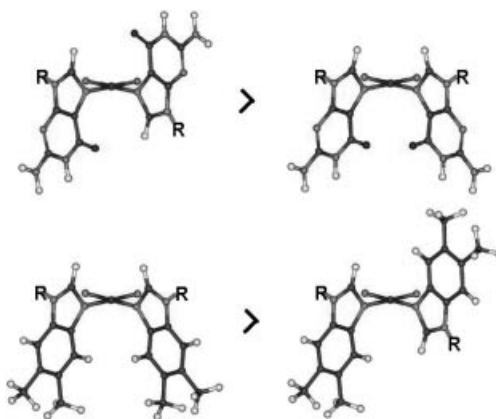


2826 M. Trani, F. Cannito, G. Natile,*
P. A. Marzilli, L. G. Marzilli*



Slowly Exchanging *cis*-PtA₂B₂ Atropisomers with A₂ = Chiral Diamine Ligands and B = 5,6-Dimethylbenzimidazole

Keywords: Cisplatin / Anticancer drug / Platinum complexes / Chiral diamines / 5,6-Dimethylbenzimidazole

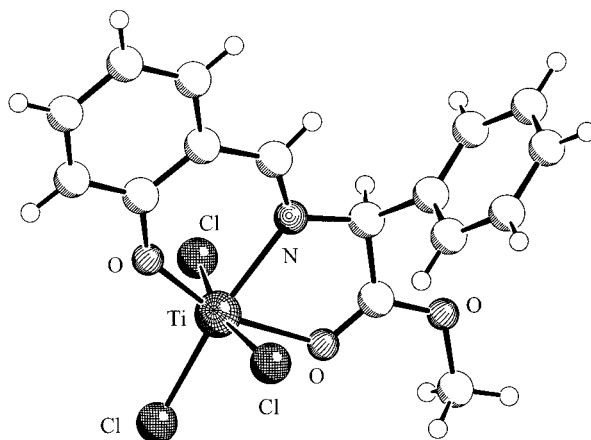


2836 J. Müller, G. Kehr, R. Fröhlich, G. Erker*



Structural Features of Titanium Complexes of Salicylaldiminato Derivatives of Amino Acids

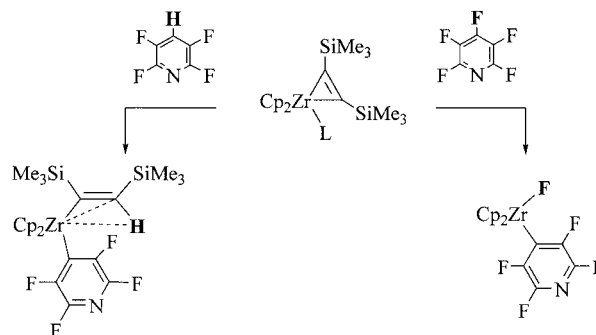
Keywords: Chelate ligands / Titanium / Tridentate ligands / Metallamacrocycles / Catalytic hydrocyanation



2842 U. Jäger-Fiedler, P. Arndt, W. Baumann,
A. Spannenberg, V. V. Burlakov,
U. Rosenthal*

Reactions of Zirconocene Bis(trimethylsilyl)-acetylene Complexes with Fluorinated Pyridines: C–H vs. C–F Bond Activation

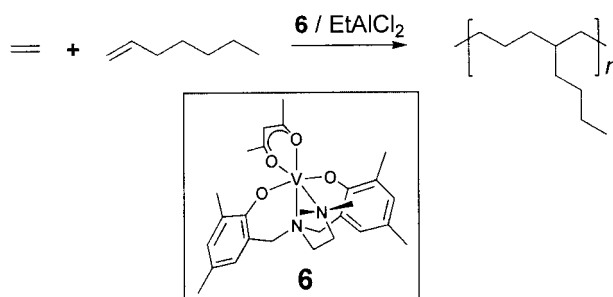
Keywords: Zirconocene / C–F bond activation / C–H bond activation / Organometallics / Heterocycles



2850 C. Lorber,* F. Wolff, R. Choukroun,
L. Vendier

Ethylene Homo- and Copolymerization Activity of a Series of [ONNO]-Type Amine Bis(phenolate) Based Vanadium(II–V) Catalysts

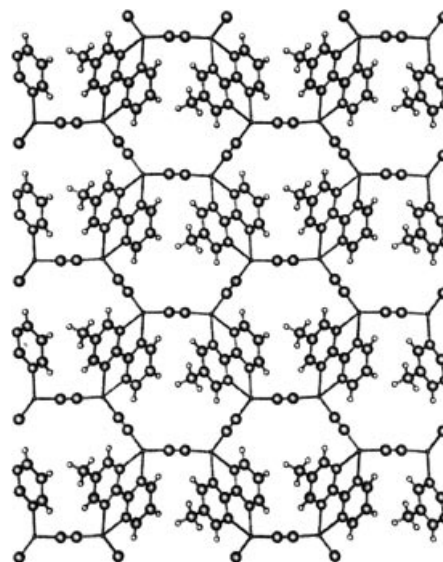
Keywords: Vanadium / Amine (bis)phenolates / Polymerization / Copolymer / Crystal structure / Olefins



2860 E. Colacio,* A. Debdoubi, R. Kivekäs,
A. Rodríguez

Multidimensional Cyanide-Bridged Heterometallic Fe^{II}–Cu^I and Homometallic Cu^I Coordination Polymers from Solvothermal Reactions Involving either K₃[Fe(CN)₆] or KCN as the Source of Cyanide Anions

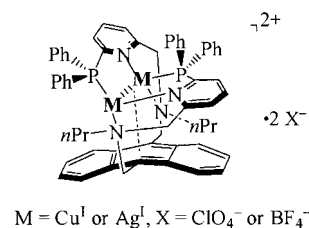
Keywords: Coordination polymers / Copper / Cyanides / Heterometallic complexes / Solvothermal synthesis



2869 H. Xu, F.-B. Xu,* Q.-S. Li, W.-G. Duo,
H.-B. Song, Z.-Z. Zhang*

Synthesis, Structure and Spectroscopic Properties of Novel 9,10-Bis{[6-(diphenylphosphanyl)-2-pyridylmethyl]propylaminomethyl}anthracene-Bridged Group 11 Metal (M = Cu^I and Ag^I) Dinuclear Complexes

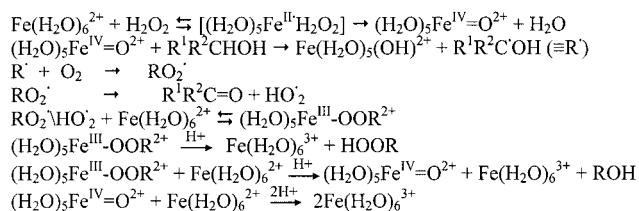
Keywords: Dinuclear complexes / Phosphanyl-pyridine ligands / Copper / Silver / Charge transfer interaction / Dual emission



2875 S. Rachmilovich-Calis, A. Masarwa,
N. Meyerstein, D. Meyerstein*

The Fenton Reaction in Aerated Aqueous Solutions Revisited

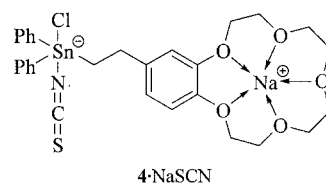
Keywords: Alcohols / Chain reactions / Dioxygen / Oxidation / Fenton reaction / Iron



2881 G. Reeske, M. Schürmann, B. Costisella,
K. Jurkschat*

Organotin-Substituted Crown Ethers for Ditopic
Complexation of Anions and Cations

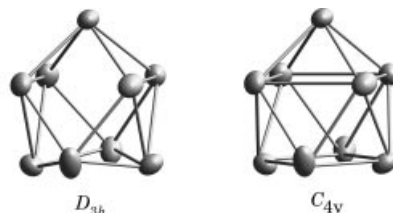
Keywords: Ditopic complexation / Host-guest chemistry / NMR spectroscopy / X-ray crystallography / Tin



2888 J. Rosdahl, T. F. Fässler, L. Kloo*

On the Structure of Nonastannide Clusters in
Liquid and Solid State

Keywords: EXAFS spectroscopy / Cluster compounds / Polyanions / Solid-state structures / Ab initio calculations

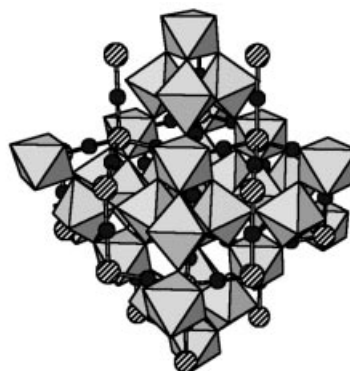


Which symmetry is most representative for the structure?

2895 T. A. Vanderah,* I. Levin, M. W. Lufaso

An Unexpected Crystal-Chemical Principle for
the Pyrochlore Structure

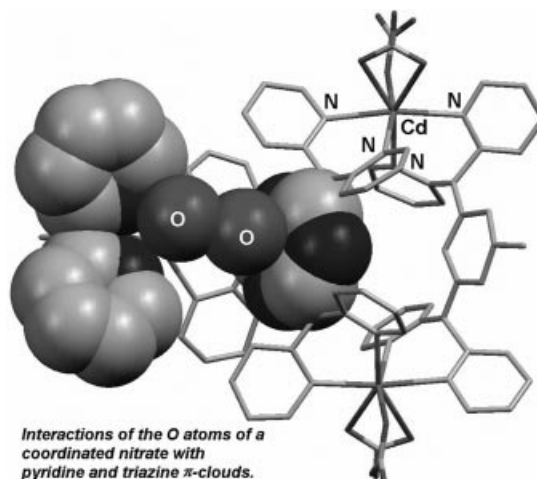
Keywords: Pyrochlore / Displacive disorder / Bismuth zinc niobates / Phase equilibria



2902 H. Casellas, C. Massera, P. Gamez,*
A. M. Manotti Lanfredi, J. Reedijk*

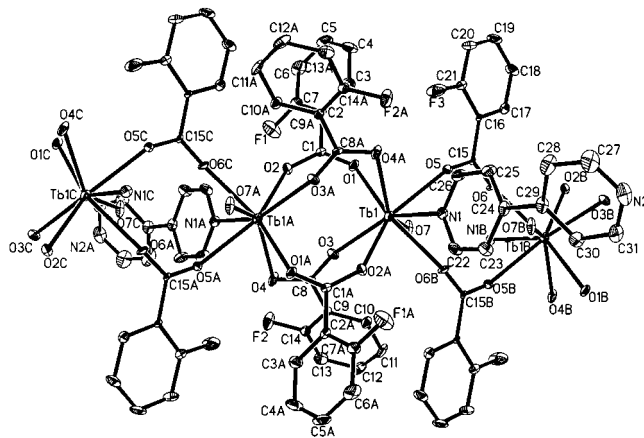
N-Donor Ligand Coordination Polymers of
 Cu^{II} , Zn^{II} , and Cd^{II} Obtained at Elevated Temperature and Pressure

Keywords: Coordination polymers / N ligands / Multidirectional ligands / Chain structures / π interactions

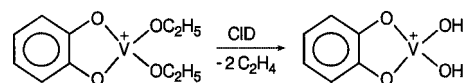


Synthesis, Structure and Luminescence Properties of Four Novel Terbium 2-Fluorobenzoate Complexes

Keywords: Fluorinated ligands / Luminescence / O ligands / Terbium

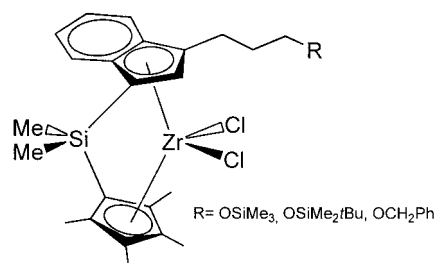


Fragmentation of Alkoxo(catecholato)vanadium(V) Complexes $[(C_6H_4O_2)V(OR^1)(OR^2)]^+$ in the Gas Phase



Keywords: Alkoxo complexes / Catecholates / Elimination / Hydrogen migration / Vanadium

Novel Indenylzirconium Complexes as Supported Catalysts in the Polymerization of Ethylene



Keywords: Metallocene / Zirconium / Homogeneous catalysis / Supported catalysts / Polymerization / Ethylene



Synthetic Applications of Lawesson's Reagent in Reactions with Cu^I Alkoxides

Keywords: Metal alkoxide / P ligands / S ligands / Elimination

