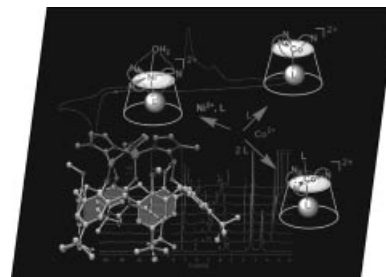


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COVER PICTURE

The cover picture shows the calix[6]arene-based tris(imidazole) ligand coordinated to divalent metal ions. These supramolecular edifices mimic enzyme environments. These funnel complexes present an exchangeable coordination site located in the heart of the hydrophobic cavity of the calixarene. The interplay between the strength of the host–guest noncovalent interactions and the flexibility of the system allows a variety of geometries for the metal complexes, either tetrahedral, trigonal-bipyramidal or square-pyramidal. Details are discussed in the article by O. Reinaud et al. on p. 1817ff.



SHORT COMMUNICATIONS

Contents

- 1785** B. Yang, M. Mo, H. Hu, C. Li, X. Yang,
 Q. Li, Y. Qian*

A Rational Self-Sacrificing Template Route to
 β -Bi₂O₃ Nanotube Arrays

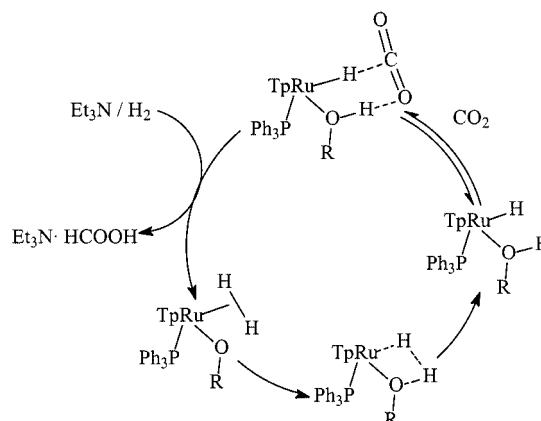
Keywords: Bismuth oxide / Nanostructures / Nano-
 tubes / Synthesis design



1788 S. M. Ng, C. Yin, C. H. Yeung, T. C. Chan,
C. P. Lau*

Ruthenium-Catalyzed Hydrogenation of Carbon Dioxide to Formic Acid in Alcohols

Keywords: Ruthenium / Hydrogenation / Alcohols / Carbon dioxide / Formic acid

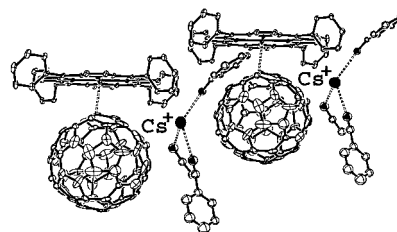


1794 D. V. Konarev,* I. S. Neretin, G. Saito,*
Y. L. Slovokhotov, A. Otsuka,
R. N. Lyubovskaya



Multicomponent Ionic Complexes of Cobalt(II) Tetraphenylporphyrin with C₆₀ Fullerides – Transition from the σ -Bonded [(Co^{II}TPP)·(C₆₀[−])] Anion to Nonbonded Co^{II}TPP and C₆₀[−] Components

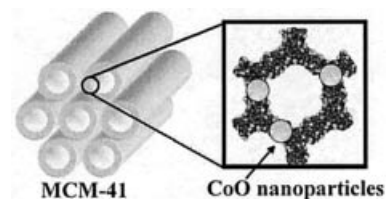
Keywords: Fullerenes / Porphyrinoids / Crystal engineering / Solid-state structures / IR and EPR spectroscopy



1799 J. El Haskouri, S. Cabrera, C. Guillem,
J. Latorre, A. Beltrán, M. D. Marcos,
C. J. Gómez-García, D. Beltrán, P. Amorós*

One-Pot Synthesis of Superparamagnetic CoO-MCM-41 Nanocomposites with Uniform and Highly Dispersed Magnetic Nanoclusters

Keywords: Mesoporous materials / Nanocomposites / Superparamagnetism / Nanoparticles / Nanotechnology

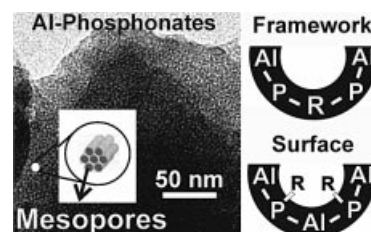


1804 J. El Haskouri, C. Guillem, J. Latorre,
A. Beltrán, D. Beltrán, P. Amorós*



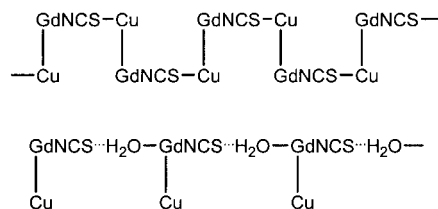
The First Pure Mesoporous Aluminium Phosphonates and Diphosphonates – New Hybrid Porous Materials

Keywords: Hybrid materials / Mesoporous / Template synthesis / Aluminium / Phosphonates



1808 G. Novitchi, J.-P. Costes,* B. Donnadieu

Synthesis and Structure of 1-D Heterometallic Thiocyanato-Bridged $\text{Cu}^{\text{II}}\text{Gd}^{\text{III}}$ Polymers with Ferromagnetic Properties

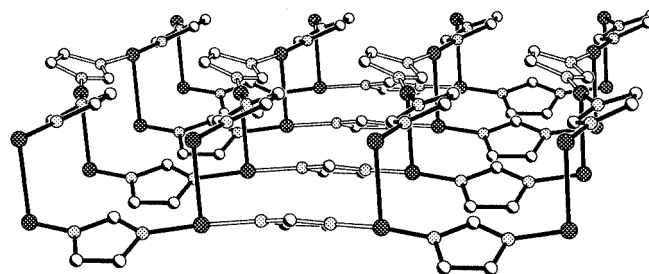


Keywords: Heterometallic complexes / Copper / Lanthanides / Magnetic properties

1813 Y.-Q. Tian, H.-J. Xu, L.-H. Weng,
Z.-X. Chen, D.-Y. Zhao,* X.-Z. You*



$[\text{Cu}^{\text{I}}(\text{im})]_{\infty}$: Is this Air-Stable Copper(I) Imidazole (8^210)-Net Polymer the Species Responsible for the Corrosion-Inhibiting Properties of Imidazole with Copper Metal?



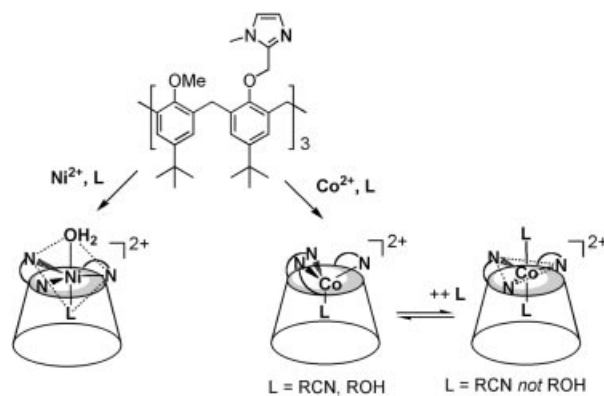
Keywords: Coordination polymers / Copper / Heterocycles / N ligands / Solvothermal synthesis

FULL PAPERS

1817 O. S  n  que, M. Campion, M. Giorgi,
Y. Le Mest, O. Reinaud*



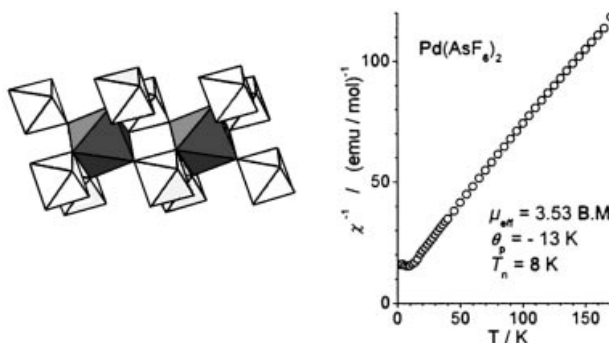
Funnel Complexes with Co^{II} and Ni^{II} : New Probes into the Biomimetic Coordination Ability of the Calix[6]arene-Based Tris(imidazole) System



Keywords: Bioinorganic chemistry / Calixarenes / Cobalt / N ligands / Nickel

1827 Z. Mazej,* P. Benki  , A. Tressaud,
B.   emva

Palladium Chemistry in Anhydrous HF/AsF_5 Superacid Medium

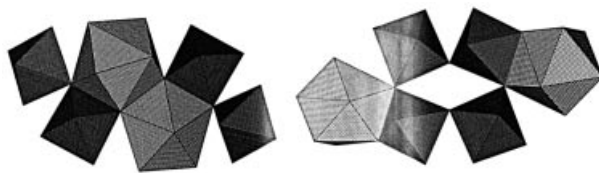


Keywords: Palladium / Fluorine / Superacids / Structure elucidation / Magnetic properties

1835 M. Jupa, G. Kickelbick, U. Schubert*

Methacrylate-Substituted Titanium-Yttrium Mixed-Metal Oxo Clusters

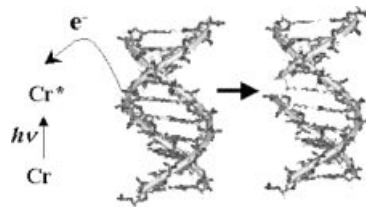
Keywords: Cluster compounds / Yttrium / Titanium / Organic-inorganic hybrids / Hydrogen bonding / Alkoxides



1840 V. G. Vaidyanathan, B. U. Nair*

Nucleobase Oxidation of DNA by (Terpyridyl)chromium(III) Derivatives

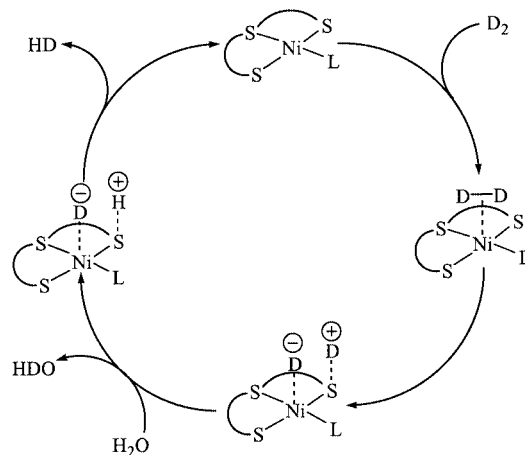
Keywords: Chromium / DNA cleavage / Photo cleavage / Terpyridyl ligands



1847 D. Sellmann, R. Prakash,* F. W. Heinemann

Activation of H_2 and CO by Sulfur-Rich Nickel Model Complexes for [NiFe] Hydrogenases and CO Dehydrogenases

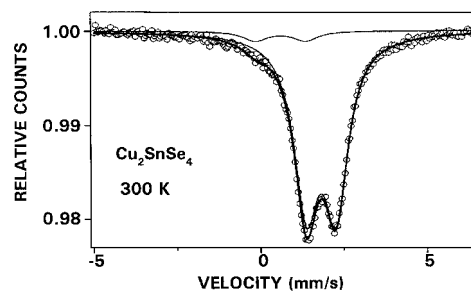
Keywords: Hydrogenases / H_2 activation / Nickel / N ligands / S ligands



1859 H. Grisar, V. G. Pol, A. Gedanken,* I. Nowik

Preparation and Characterization of Cu_2SnSe_4 Nanoparticles Using a Microwave-Assisted Polyol Method

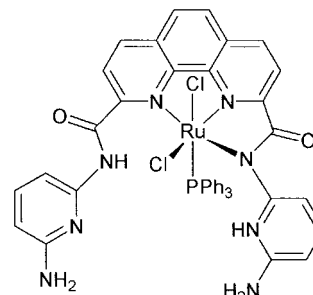
Keywords: Nanoparticles / Microwave heating / Polyol method / Copper / Tin / Selenium



1865 D. Rais, I. R. Gould, R. Vilar,* A. J. P. White, D. J. Williams

Structural and Theoretical Studies of New Ruthenium-Amidato Complexes with Phenanthroline Ligands Containing H-Bonding Groups

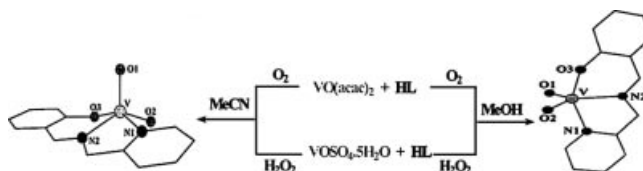
Keywords: Chelates / Tridentate ligands / Ligand design / Ruthenium / pi interactions



1873 B. Baruah, S. P. Rath, A. Chakravorty*

A Novel Pentacoordinated Dioxovanadium(V) Salicylaldehyde: Solvent Specific Crystallization of Dimorphs with Contrasting Coordination Geometries, Ligand Conformations and Supramolecular Architectures

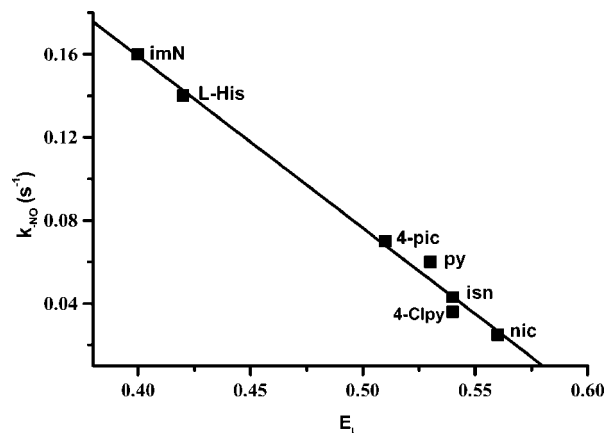
Keywords: Vanadium / O ligands / Dimorphism / Supramolecular architecture



1879 J. C. Toledo, H. A. S. Silva, M. Scarpellini, V. Mori, A. J. Carmago, M. Bertotti, D. W. Franco*

Ruthenium Tetraammines as a Model of Nitric Oxide Donor Compounds

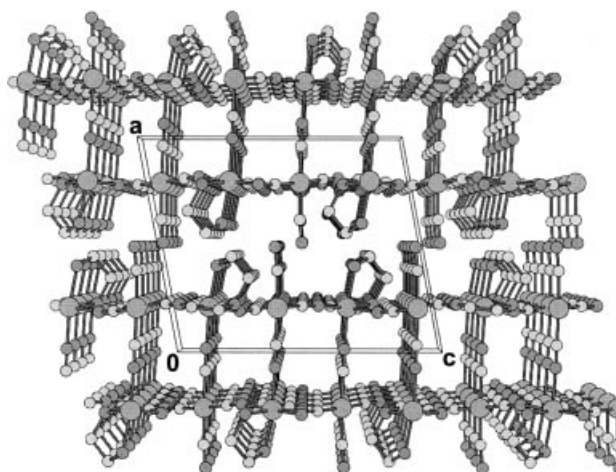
Keywords: Nitric oxide / Ruthenium / NO donor / N-heterocyclic ligands



1886 I. Muga, J. M. Gutiérrez-Zorrilla,* P. Vitoria, P. Román, L. Lezama, J. I. Beitia

Unusual Two-Dimensional Nickel(II) Complexes Based on $[Ni(dien)]^{2+}$ and $[M(CN)_4]^{2-}$ Building Blocks (M = Ni, Pd and Pt) – Synthesis, Structural Diversity and Magnetic Properties

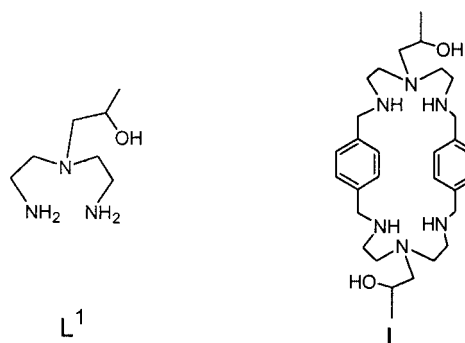
Keywords: Nickel / Palladium / Platinum / Cyanides / Bridging ligands



1894 J. Huang, S.-A. Li, D.-F. Li, D.-X. Yang, W.-Y. Sun,* W.-X. Tang

Carboxy Ester Hydrolysis Promoted by a Dicopper(II) Macrocyclic Polyamine Complex with Hydroxypropyl Pendant Groups

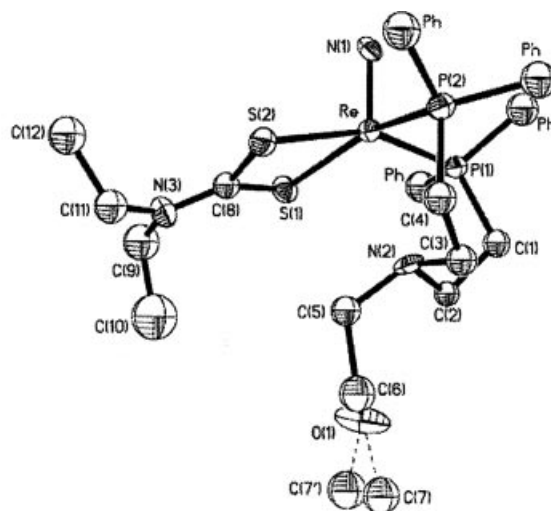
Keywords: Copper / Hydrolysis / Macrocyclic ligands / Mass spectrometry / Potentiometric titrations



- 1902** C. Bolzati, F. Refosco, A. Cagnolini,
F. Tisato,* A. Boschi, A. Duatti, L. Uccelli,
A. Dolmella, E. Marotta, M. Tubaro

Synthesis, Solution-State and Solid-State Structural Characterization of Monocationic Nitrido Heterocomplexes $[M(N)(DTC)(PNP)]^+$ ($M = {}^{99}\text{Tc}$, Re; DTC = Dithiocarbamate; PNP = Heterodiphosphane)

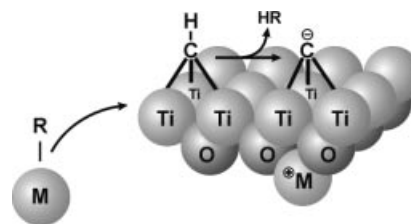
Keywords: Technetium / Rhenium / Radiopharmaceuticals / NMR spectroscopy / P ligands



- 1914** A. Martín, M. Mena,*
M. C. Morales-Varela, C. Santamaría

Deprotonation of μ_3 -Methylidyne Groups on a Ti_3O_3 Support: A Way to Build Oxotitanocubanes Containing Alkali and Alkaline-Earth Metals

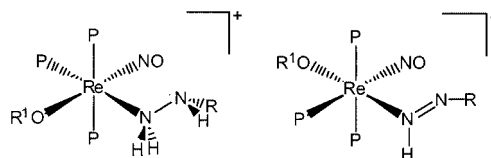
Keywords: Alkali metals / Alkaline earth metals / Alkylidyne complexes / Oxo ligands / Titanium



- 1922** G. Albertin,* S. Antoniutti, A. Bacchi,
B. Fregolent, G. Pelizzi

New Nitrosylrhenium Hydrides as Precursors of “Diazo” Complexes: Preparation of Hydrazine and Diazene Derivatives

Keywords: Diazene / Hydrazine / P ligands / N ligands / Rhenium



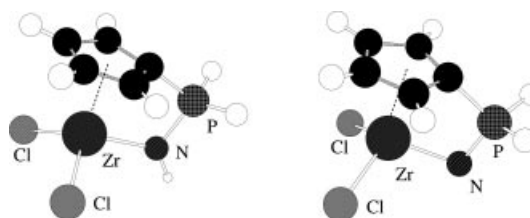
$R = \text{H}, \text{CH}_3, \text{C}_6\text{H}_5$; $R^1 = \text{CH}_3, \text{C}_2\text{H}_5$; P = phosphane

- 1939** L. Truflandier, C. J. Marsden, C. Freund,
B. Martin-Vaca, D. Bourissou*



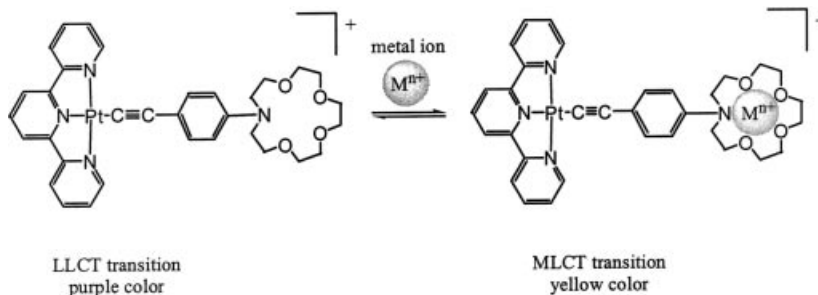
Theoretical Investigation of Group 4 Constrained-Geometry Complexes Featuring Phosphazene and Phosphinimido Arms

Keywords: Cations / Density functional calculations / Ligand Effects / Phosphorus / Zirconium



1948 Q.-Z. Yang, Q.-X. Tong, L.-Z. Wu,
Z.-X. Wu, L.-P. Zhang, C.-H. Tung*

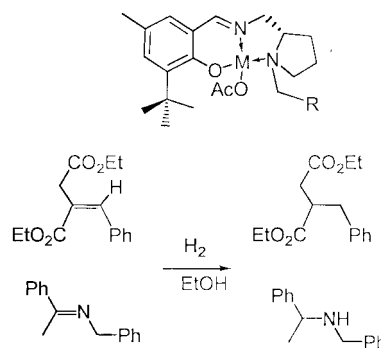
Switch of the Lowest Excited-States of Terpyridylplatinum(II) Acetylide Complexes Bearing Amino or Azacrown Moieties by Proton and Cations



Keywords: Crown compounds / N ligands / Platinum / Sensors

1955 C. González-Arellano, E. Gutiérrez-Puebla,
M. Iglesias, F. Sánchez*

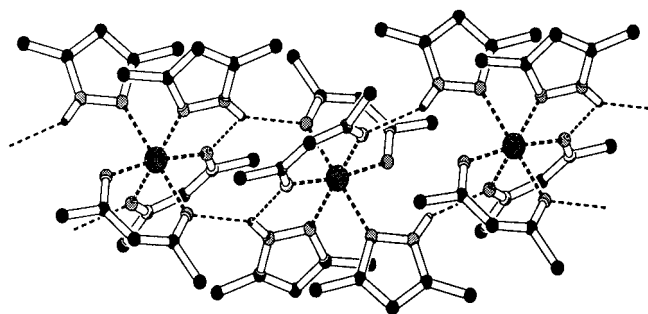
Easy Synthesis of New Chiral Tridentate Schiff Bases and Their Use as [N,N,O] Ligands for Ni and Pd Complexes – Catalytic Behaviour versus Hydrogenation Reactions



Keywords: Palladium / Nickel / Chiral Schiff bases / Hydrogenation / Tridentate ligands

1963 S. Tanase, E. Bouwman,* J. Reedijk,
W. L. Driessen, M. Ferbinteanu, M. Huber,
A. M. Mills, A. L. Spek

Synthesis and Structural Studies of Two New Base Adducts of Bis(2,4-pentanedionato)cobalt(II)



Keywords: Cobalt / 2,4-Pentanedione / 3,5-Dimethylpyrazole / Dimethylethanolamine / Coordination modes