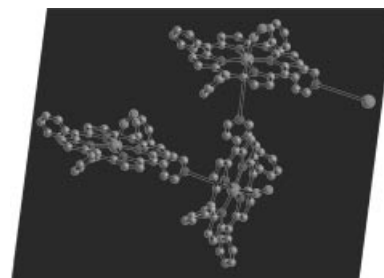


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COVER PICTURE

The cover picture shows a schematic view of part of a novel complex that undergoes reversible dioxygen binding. The complex is a zig-zag oligomer formed in sublimed layers of [*meso*-triphenyl(4-pyridyl)porphyrinato]cobalt(II) and is depicted here with molecular dioxygen coordinated at each cobalt centre. The relatively open, microporous structure of the oligomer arises as a result of pyridine coordination, which inhibits closer-packed structures (e.g. with parallel contiguous porphyrin rings), and ensures facile transport of molecular oxygen to the coordination site. The zig-zag chain also inhibits the formation of dioxygen-bridged centres, with the result that this basic structure is relatively stable. On warming, the Co–dioxygen link may be broken, with the evolution of dioxygen, which can readily diffuse through the microporous structure, leaving the zig-zag oligomer chain effectively intact. Details are discussed in the article by T. S. Kurtikyan et al. on p. 1861 ff.



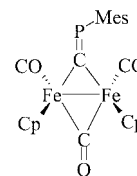
MICROREVIEW

Contents

1843 L. Weber

The Quest for Isophosphaalkynes (Isophospho-
 cyanides) $C\equiv P-R$ – Still an Elusive Class of
 Compounds

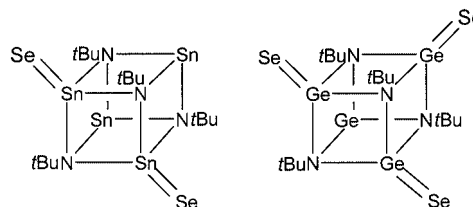
Keywords: Isophosphaalkynes / Phosphaalkynes /
 Phosphorus / Synthetic methods



SHORT COMMUNICATION

- 1857 T. Chivers,* T. J. Clark, M. Krahn,
M. Parvez, G. Schatte

Cubane Complexes with Two (or More) Group 14–Group 16 Double Bonds: Synthesis and X-ray Structures of $\text{Sn}_4\text{Se}_2(\text{N}t\text{Bu})_4$ and $\text{Ge}_4\text{Se}_3(\text{N}t\text{Bu})_4$

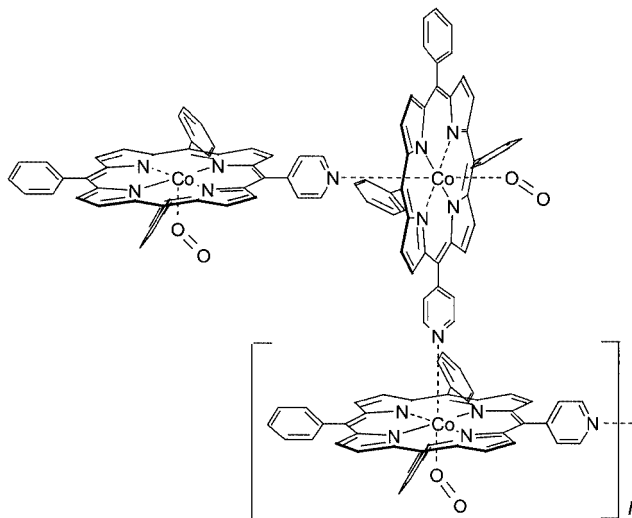


Keywords: Germanium / Main group elements / Multiple bonds / Selenium / Tin

FULL PAPERS

- 1861 T. S. Kurtikyan,* J. S. Ogden,
R. K. Kazaryan, V. N. Madakyan

IR Study of the Interaction of Dioxygen with [*meso*-Triphenyl(4-pyridyl)porphyrinato]cobalt(II)

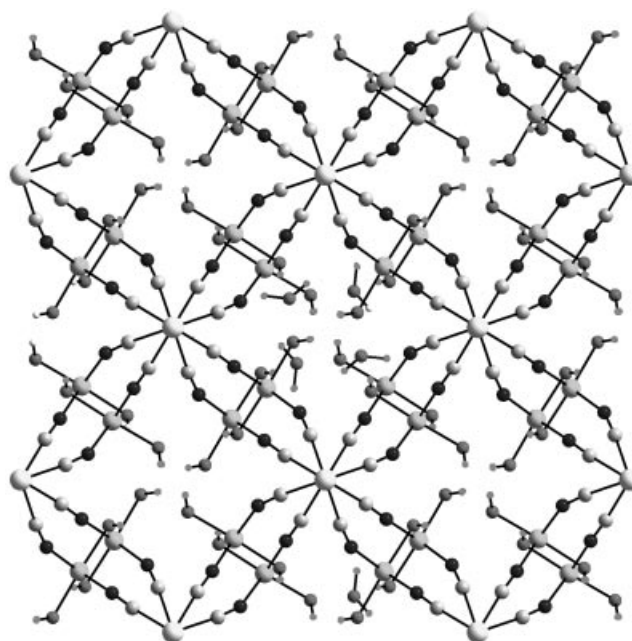


Keywords: Cobalt / Porphyrins / Matrix isolation / IR spectroscopy / Microporous materials

- 1866 S. Willemin, J. Larionova,* R. Clérac,*
B. Donnadieu, B. Henner, X. F. Le Goff,
C. Guérin



Crystal Structures and Intercalation Reactions of Three-Dimensional Coordination Polymers $[\text{M}(\text{H}_2\text{O})_2]_2[\text{Mo}(\text{CN})_8] \cdot 4\text{H}_2\text{O}$ ($\text{M} = \text{Co}, \text{Mn}$)

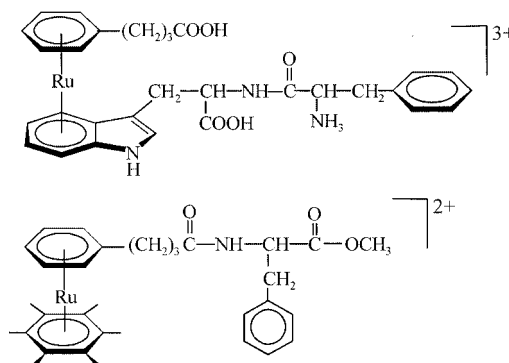


Keywords: Bridging ligands / Cyanides / Molybdenum / Intercalations / Cobalt / Manganese

1873 R. Stodt, S. Gencaslan, I. M. Müller,
W. S. Sheldrick*

Preparation, Reactivity and Peptide Labelling Properties of (η^6 -Arene)ruthenium(II) Complexes with Pendant Carboxylate Groups

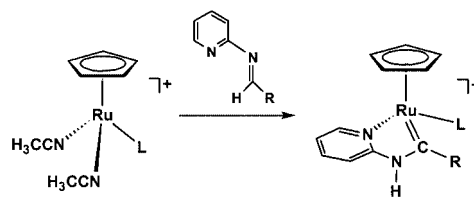
Keywords: Ruthenium / Amino acids / Peptides / Bioinorganic chemistry



1883 C. M. Standfest-Hauser, K. Mereiter,
R. Schmid, K. Kirchner*

Formation of Ruthenium–Aminocarbene Complexes from Aldimines and Aminals

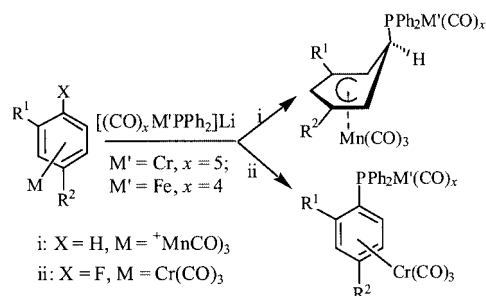
Keywords: Carbenes / Density functional calculations / N ligands / Ruthenium



1893 V. Comte, J. P. Tranchier, F. Rose-Munch,*
E. Rose, D. P. P. Richard, C. Moïse

Reactivity of Metallophosphide Anions with Electrophilic (Arene)tricarbonylmetal Complexes

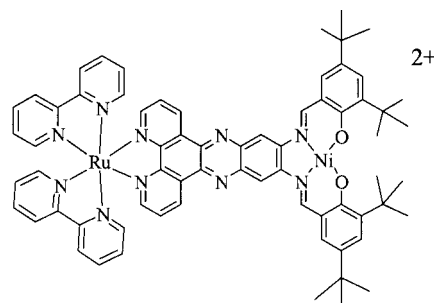
Keywords: Anions / Carbonyl ligands / Arene ligands / Manganese / Chromium / Iron



1900 K. E. Berg, Y. Pellegrin, G. Blondin,
E. Anxolabéhère-Mallart, W. Leibl,
A. Aukauloo*

A Rigid Molecular Scaffold Affixing a (Polypyridine)ruthenium(II)- and a Nickel(II)-Containing Complex: Spectroscopic Evidence for a Weakly Coupled Bichromophoric System

Keywords: Ruthenium / Nickel / Polynuclear complexes / Rigid heteroditopic ligands / Redox chemistry / Photophysical studies

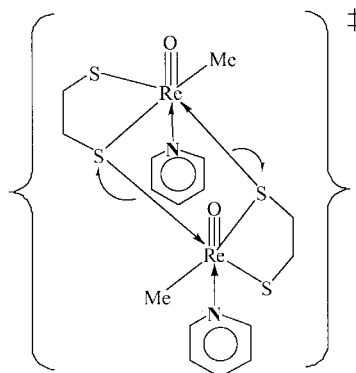


1911 J. H. Espenson,* S. M. Nabavizadeh



Kinetic and Equilibrium Studies of Reactions of N-Heterocycles with Dimeric and Monomeric Oxorhenium(V) Complexes

Keywords: Rhenium / N ligands / Kinetics / Linear free-energy relationships

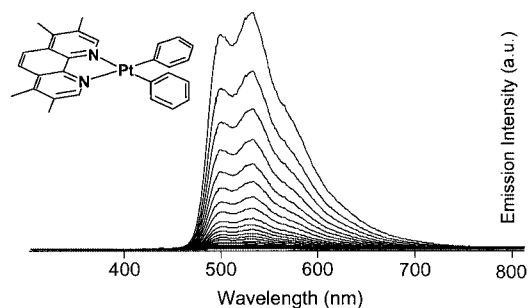


1917 A. Klein,* J. van Slageren,* S. Zálaiš



Co-Ligand Involvement in Ground and Excited States of Electron-Rich (Polypyridyl)Pt^{II} Complexes

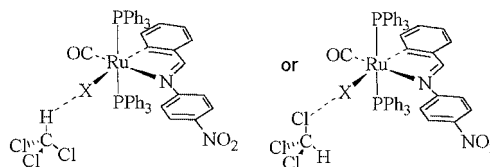
Keywords: Emission / Platinum / N ligands / Photo-physics / Optical spectroscopy / Theoretical calculations / DFT / Crystal structure



1929 K. R. Flower,* R. G. Pritchard, J. E. Warren

Synthesis of $[\text{RuX}(\text{CO})\{\eta^2\text{-C}_6\text{H}_4\text{C}(\text{H})=\text{NC}_6\text{H}_4\text{-4-NO}_2\}(\text{PPh}_3)_2]$ ($\text{X} = \text{F}, \text{Cl}, \text{Br}, \text{I}$): Evidence of Non-Conventional Ru–X Hydrogen Bonds Leading to Octahedral Coordination at the Halide Atom

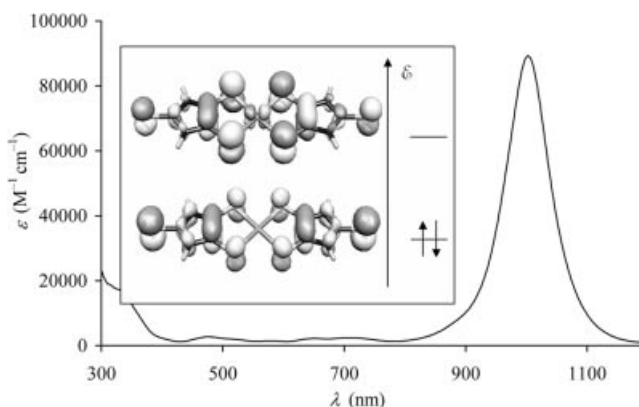
Keywords: Ruthenium / Cyclometallated ligands / Charge transfer / Hydrogen bonds / Pi interactions



1939 M. C. Aragoni, M. Arca,* T. Cassano, C. Denotti, F. A. Devillanova, R. Frau, F. Isaia, F. Lelj, V. Lippolis, L. Nitti, P. Romaniello, R. Tommasi, G. Verani

NIR Dyes Based on $[\text{M}(\text{R},\text{R}'\text{timdt})_2]$ Metal-Dithiolenes: Additivity of M, R, and R' Contributions To Tune the NIR Absorption ($\text{M} = \text{Ni}, \text{Pd}, \text{Pt}$; $\text{R},\text{R}'\text{timdt}$ = Monoreduced Form of Disubstituted Imidazolidine-2,4,5-trithione)

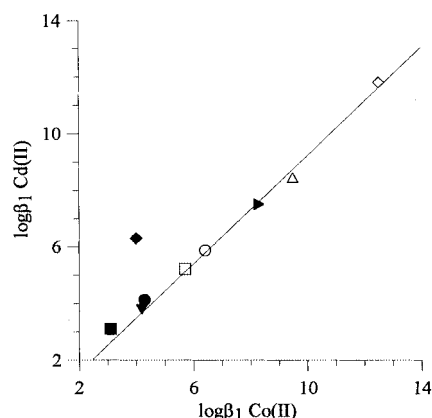
Keywords: S ligands / Nickel / Palladium / Platinum / Density functional calculations / Non-linear optics



1948 C. Comuzzi,* A. Melchior, P. Polese,
R. Portanova, M. Tolazzi*

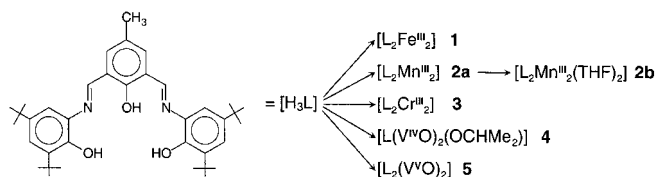
Thermodynamics of Complex Formation of Silver(I), Cadmium(II) and Cobalt(II) with Open-Chain Polyamines in Dimethyl Sulfoxide and Molecular Dioxygen Binding to Cobalt(II) Complexes

Keywords: Amine complexes / Cadmium / Cobalt / Dioxygen / Silver / Thermodynamics



1956 S. Mukherjee, T. Weyhermüller, E. Bothe,
P. Chaudhuri*

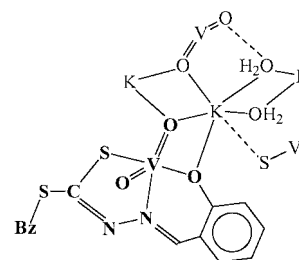
Structural, Magnetochemical and Electrochemical Studies of Dinuclear Complexes Containing the $[\text{V}^{\text{VO}}]_2$, $[\text{V}^{\text{IV}}\text{O}]_2$, Cr_2^{III} , Mn_2^{III} and Fe_2^{III} Cores of a Potentially Pentadentate Phenol-Containing Ligand with (O,N,O,N,O)-Donor Atoms



Keywords: N,O ligands / Transition metals / Magnetic properties / Radicals / Electrochemistry

1966 M. P. Maurya,* S. Khurana, Shailendra,
A. Azam, W. Zhang, D. Rehder*

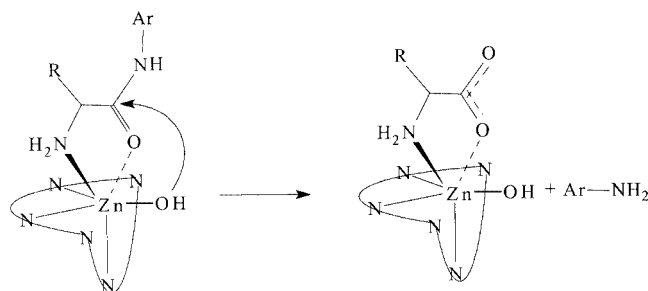
Synthesis, Characterisation and Antiamoebic Studies of Dioxovanadium(V) Complexes Containing ONS Donor Ligands Derived from *S*-Benzyldithiocarbamate



Keywords: Medicinal chemistry / S ligands / Potassium / Vanadium

1974 C. Bazzicalupi, A. Bencini,* E. Berni,
A. Bianchi,* P. Fornasari, C. Giorgi,
B. Valtancoli

Zn^{II} Complex with a Phenanthroline-Containing Macrocycle as Receptor for Amino Acids and Dipeptides – Hydrolysis of an Activated Peptide Bond



Keywords: Macrocyclic ligands / Zinc / Amino acids / Enzyme models / Stacking interactions

- 1984** M. Soibinet, I. Déchamps-Olivier,*
E. Guillon, J.-P. Barbier, M. Aplincourt,
F. Chuburu, M. Le Baccon, H. Handel

XAS, ESR and Potentiometric Studies of Three Dinuclear *N,N'*-*para*-Xylylenebis(tetraazamacrocyclic)copper(II) Complexes – X-ray Crystal Structure of [*N,N'*-*p*-Xylylenebis(cyclen)]-copper(II)

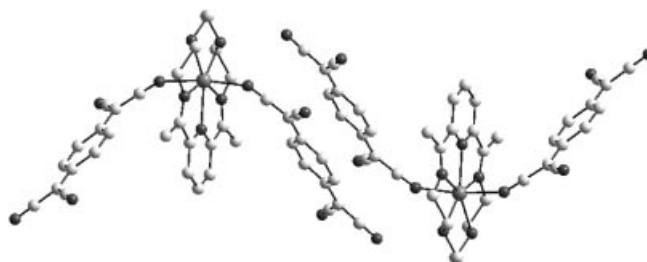
Keywords: Copper / ESR spectroscopy / Macrocyclic ligands / Potentiometry / X-ray studies



- 1995** A. M. Madalan, V. Voronkova, R. Galeev,
L. Korobchenko, J. Magull, H. W. Roesky,*
M. Andruh*

Exchange Interactions at the Supramolecular Level – Synthesis, Crystal Structure, Magnetic Properties, and EPR Spectra of [Mn(MAC)(TCNQ)₂] (MAC = Pentaaza Macrocyclic Ligand; TCNQ^{•-} = Radical Anion of 7,7,8,8-Tetracyano-*p*-quinodimethane)

Keywords: Manganese / N ligands / Stacking interactions / Magnetic properties / EPR spectroscopy / Radicals



$$J(\chi T \text{ vs. } T) = -0.18 \text{ cm}^{-1}$$
$$J(\text{EPR}) = -0.15(5) \text{ cm}^{-1}$$

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