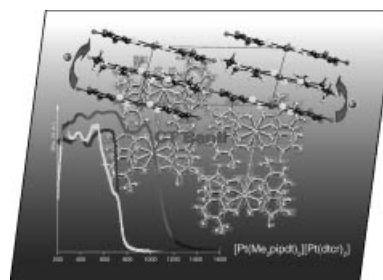


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www.interscience.wiley.com/alerts

COVER PICTURE

The cover picture shows $[\text{Pt}(\text{Me}_2\text{pipdt})_2][\text{Pt}(\text{dtr})_2]$ (Me_2pipdt = *N,N'*-dimethylpiperazine-2,3-dithione; *dtr* = dithiocroconate), an ion-pair CT salt formed by redox-active cationic and anionic platinum–dithiolenes arranged in an infinite, alternate one-dimensional stack. This salt exhibits a strong absorption in the near-infrared region that is assigned to a CT transition from the anion to the cation. NIR CT bands, and semiconducting and photoconducting properties are also observed for similar salts obtained on varying the anion. These properties strongly depend on the degree of electron donation, which in turn depends on the redox potential and on the planarity of the ionic components. Details are discussed in the article by P. Deplano et al. on p. 1829ff. This work has been performed in the framework of European COST action D14-003 “Towards New Molecular Inorganic Conductors”.



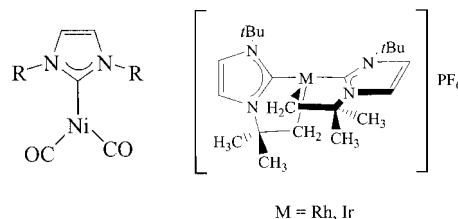
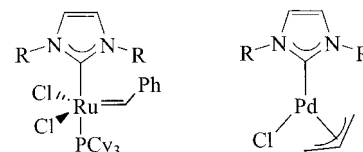
MICROREVIEW

Contents

1815 N. M. Scott, S. P. Nolan*

Stabilization of Organometallic Species Achieved
 by the Use of N-Heterocyclic Carbene (NHC)
 Ligands

Keywords: Carbene ligands / Ruthenium / Palladium /
 Nickel / Rhodium / Iridium

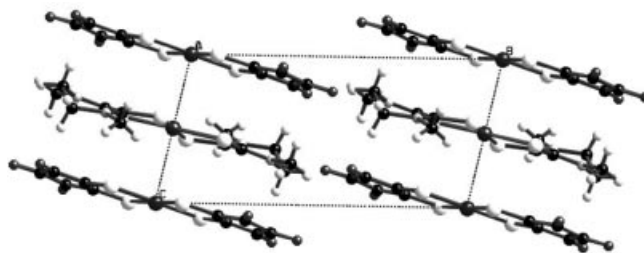


FULL PAPERS

- 1829** P. Deplano,* M. L. Mercuri, L. Marchi,
L. Pilia, M. Salidu, A. Serpe, F. Congiu,
S. Sanna

Electro-Conducting Properties of Charge-Transfer Salts Based on Cationic and Anionic Platinum Dithiolenes – Crystal Structure of $[\text{Pt}(\text{Me}_2\text{pipdt})_2][\text{Pt}(\text{dtrc})_2]$

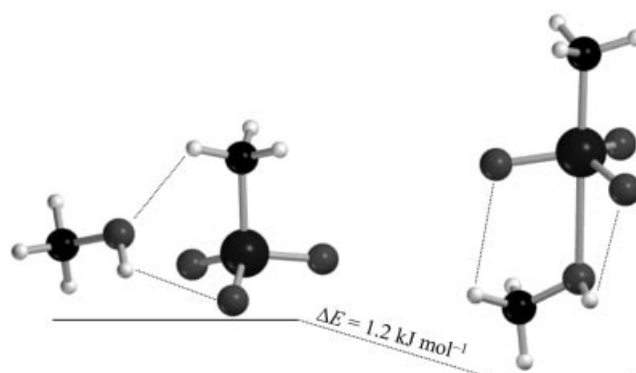
Keywords: Sulfur ligands / Platinum / Charge-transfer / Conducting materials



- 1836** P. D. Vaz,* P. J. A. Ribeiro-Claro

The Role of $\text{C}-\text{H}\cdots\text{O}$ Interactions in the Solid and Liquid-Phase Structures of Methyltrioxo Rhenium

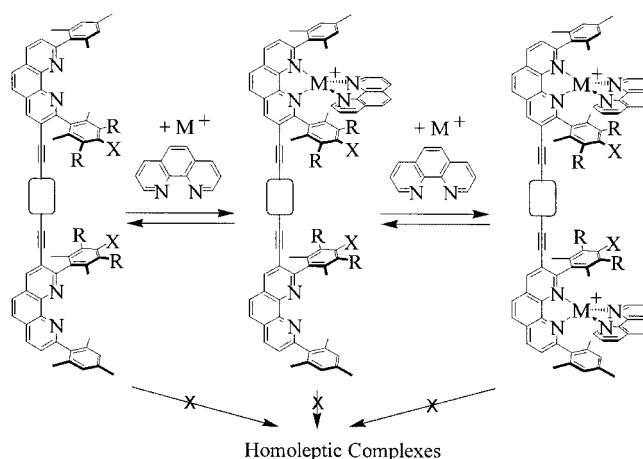
Keywords: Rhenium / $\text{C}-\text{H}\cdots\text{O}$ Hydrogen bonds / Ab initio calculations / Raman spectroscopy / Inelastic neutron scattering



- 1841** V. Kalsani, H. Bodenstedt, D. Fenske,
M. Schmittel*

Supramolecular Copper Phenanthroline Racks: Structures, Mechanistic Insight and Dynamic Nature

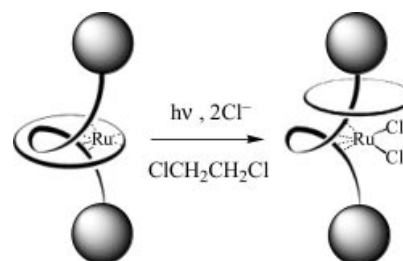
Keywords: Rack / HETPHEN / Self-assembly / Phenanthroline / Dynamics



- 1850** J.-P. Collin, D. Jouvenot, M. Koizumi,
J.-P. Sauvage*

A Ruthenium(II)-Complexed Rotaxane Whose Ring Incorporates a 6,6'-Diphenyl-2,2'-bipyridine: Synthesis and Light-Driven Motions

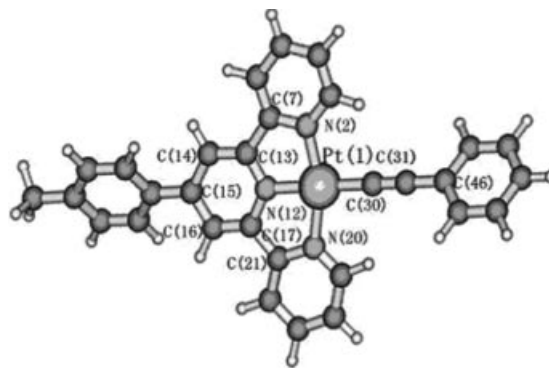
Keywords: Rotaxanes / Ruthenium / Light-driven motions



1856 X.-J. Liu, J.-K. Feng,* J. Meng, Q.-J. Pan,
A.-M. Ren, X. Zhou, H.-X. Zhang

A Theoretical Investigation of Substituent Effects on the Absorption and Emission Properties of a Series of Terpyridylplatinum(II) Acetylide Complexes

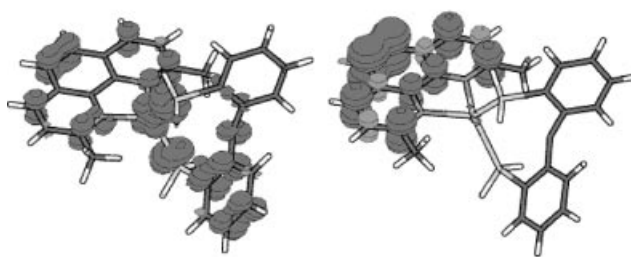
Keywords: Density functional calculations / Electronic structure / N ligands / Platinum



1867 L. Yang, J.-K. Feng,* A.-M. Ren, M. Zhang,
Y.-G. Ma,* X.-D. Liu

Structures, Electronic States and Electroluminescent Properties of a Series of Cu^I Complexes

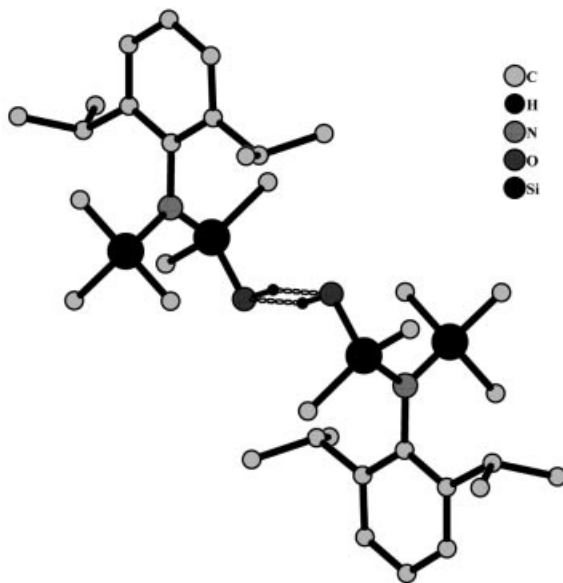
Keywords: Copper / Density functional calculations / N ligands / Photoluminescence



1880 V. Chandrasekhar,* R. Boomishankar,
R. Azhakar, K. Gopal, A. Steiner,
S. Zacchini

N-Bonded Monosilanols: Synthesis and Characterization of ArN(SiMe₃)SiMe₂Cl and ArN(SiMe₃)SiMe₂OH (Ar = C₆H₅, 2,6-Me₂C₆H₃, 2,6-*i*Pr₂C₆H₃)

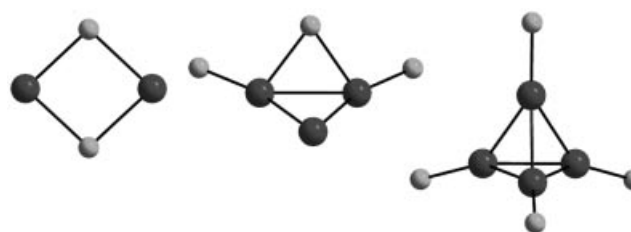
Keywords: Monosilanols / *N*-Bonded silanols / Hydrogen bonding / Aminosilanols



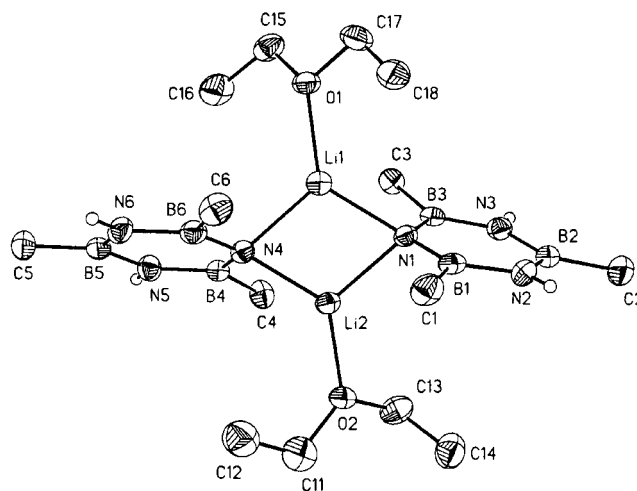
1886 H.-J. Himmel*

Characterization of Oligomers of AlCl: Al–Cl versus Al–Al Bonding

Keywords: Subvalent compounds / Aluminium / Reaction mechanisms / Matrix isolation / Quantum chemical calculations

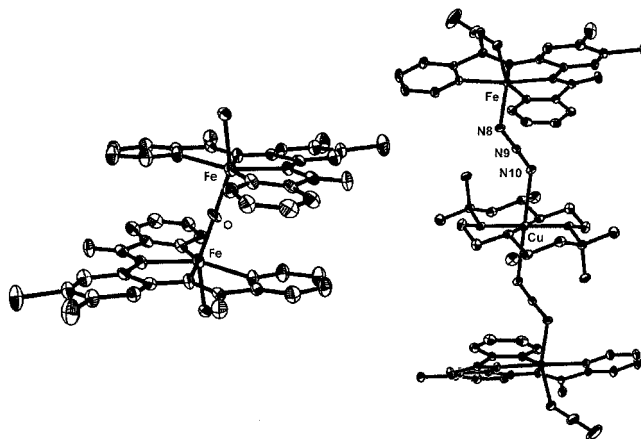


The Structural Chemistry of *N*-Monolithium Borazines



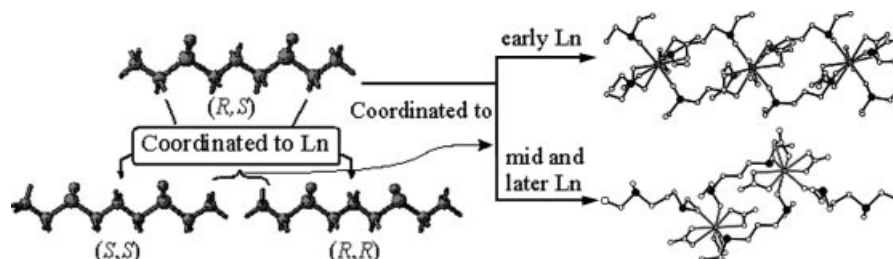
Keywords: Boron / Borazines / Lithiation / N ligands

Synthesis, Structure, and Properties of μ -Oxo-Bridged Fe^{III}_2 and Heterometallic Azide-Bridged $\text{Fe}^{\text{III}}_2\text{Cu}^{\text{II}}$ Complexes of a Picolinamide In-Plane Ligand



Keywords: Azides / Heterometallic complexes / Iron / Magnetic properties / Oxo ligands

Lanthanide Complexes of Disulfoxide Ligands with Varied Configurations: Influence of Lanthanide Contraction on the Structures of the Complexes

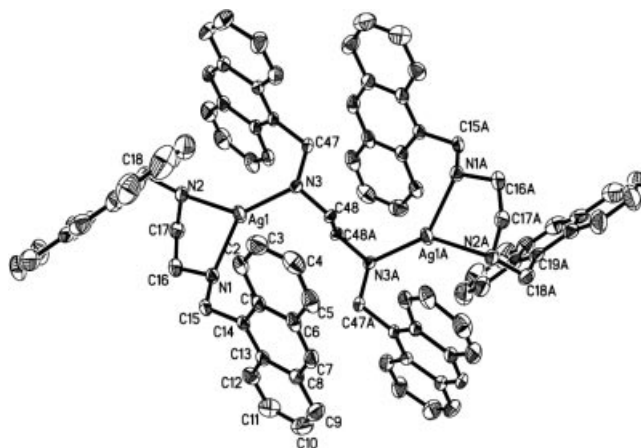


Keywords: Disulfoxides / Lanthanides / Lanthanide contraction / Ligand configuration change / X-ray diffraction

1919 G. Zhang, G. Yang,* L. Yang, Q. Chen,
J.-S. Ma

Synthesis, Characterization and Photophysical Properties of Novel Dinuclear Silver(I) and Mononuclear Palladium(II) Complexes with 1,2-Bis[(anthracen-9-ylmethyl)amino]ethane

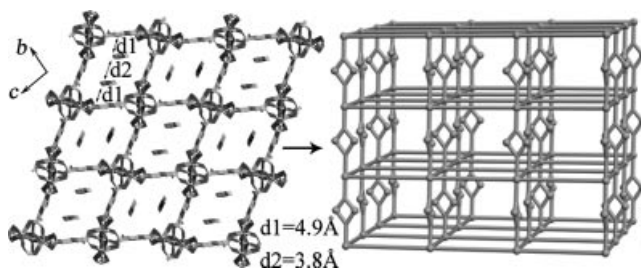
Keywords: N ligands / Palladium / Photophysics / Silver



1927 Z. Lin, F. Jiang, D. Yuan, L. Chen, Y. Zhou,
M. Hong*

The 3D Channel Framework Based on Indium(III)–btcc, and Its Ion-Exchange Properties (btcc = 1,2,4,5-Benzenetetracarboxylate)

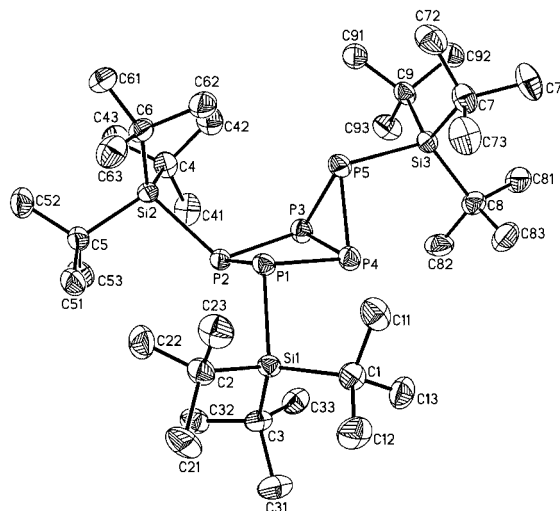
Keywords: Indium / Benzenetetracarboxylate / Crystal structure / Ion exchange / Pyridine derivatives



1932 H.-W. Lerner,* G. Margraf, L. Kaufmann,
J. W. Bats, M. Bolte, M. Wagner

Syntheses, Reactivity, and X-ray Structure Analyses of the Dimeric Pentaphosphides $[(t\text{Bu}_3\text{Si})_3\text{P}_5\text{M}_2]_2$ ($\text{M} = \text{Na}, \text{Ag}$) and the Bicyclo-[2.1.0]pentaphosphane $(t\text{Bu}_3\text{Si})_3\text{P}_5$

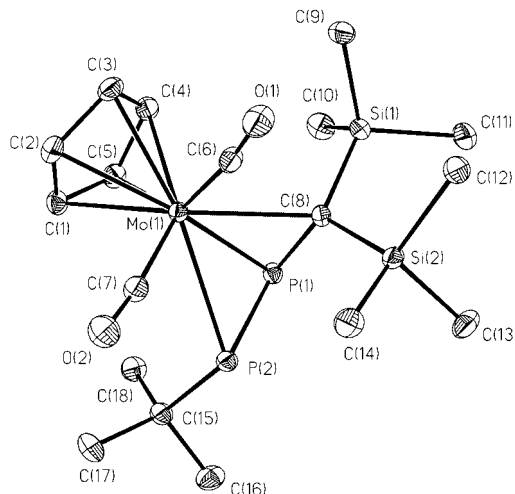
Keywords: Phosphorus / Phosphane / Supersilyl phosphides / Silanide



1940 L. Weber,* G. Noveski, U. Lassahn,
H.-G. Stammler, B. Neumann

Synthesis and Structure of the First η^3 -1,2-Diphosphaallyl Complexes $[(\eta^5\text{-C}_5\text{H}_5)(\text{CO})_2\text{M}\{\eta^3\text{-RPPC}(\text{SiMe}_3)_2\}]$ ($\text{M} = \text{Mo}$, $\text{R} = t\text{Bu}$, Cy ; $\text{M} = \text{W}$, $\text{R} = t\text{Bu}$) from $[(\eta^5\text{-C}_5\text{H}_5)(\text{CO})_2\text{M} = \text{P} = \text{C}(\text{SiMe}_3)_2]$ ($\text{M} = \text{Mo}$, W) and Inversely Polarized Phosphaalkenes $\text{RP} = \text{C}(\text{NMe}_2)_2$ ($\text{R} = t\text{Bu}$, Cy)

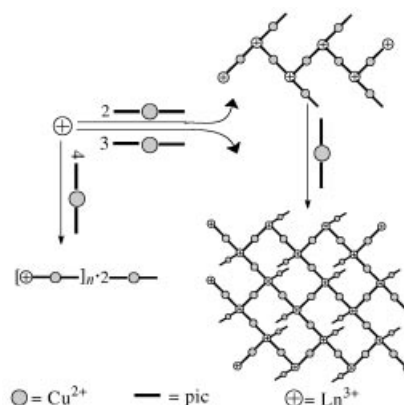
Keywords: Phosphavinylidene complexes / 1,2-Diphosphaallyl complexes / Phosphaalkenes / Molybdenum / Tungsten



1947 A.-Q. Wu, G.-H. Guo, C. Yang,
F.-K. Zheng, X. Liu, G.-C. Guo,*
J.-S. Huang, Z.-C. Dong,* Y. Takano

Extended Structures and Magnetic Properties of Lanthanide–Copper Complexes with Picolinic Acids as Bridging Ligands

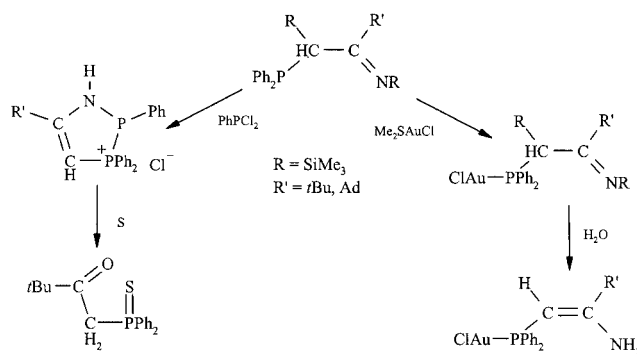
Keywords: Heterometallic complexes / Magnetic properties / Crystal structures / Picolinic acid / Coordination polymers



1955 R. J. Bowen,* M. A. Fernandes,
P. W. Gitari, M. Layh,* R. M. Moutloali

Synthesis and Reactions of Mixed N,P Ligands

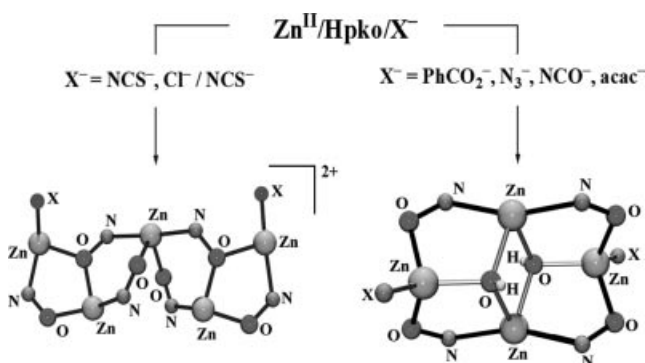
Keywords: Cyclic phosphonium salts / Gold phosphane complexes / β -Keto thiophosphane oxide / Keto-enol / Imine-enamide tautomerism



1964 M. Alexiou, E. Katsoulakou,
C. Dendrinou-Samara, C. P. Raptopoulou,
V. Psycharis, E. Manessi-Zoupa,
S. P. Perlepes,* D. P. Kessissoglou*

Di-2-pyridyl Ketone Oxime in Zinc Chemistry: Inverse 12-Metallacrown-4 Complexes and Cationic Pentanuclear Clusters

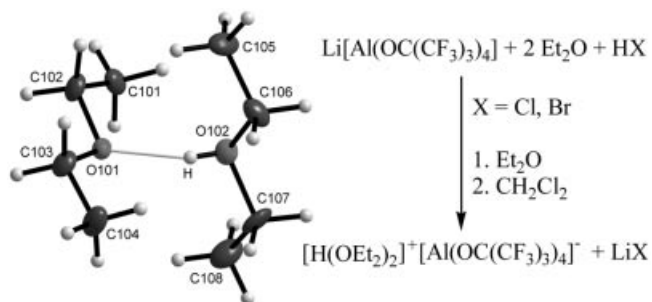
Keywords: Cluster compounds / Inverse metallacrowns / Oximate complexes / X-ray crystallography / Zinc



1979 I. Krossing,* A. Reisinger

Perfluorinated Alkoxyaluminate Salts of Cationic Brønsted Acids: Synthesis, Structure, and Characterization of $[\text{H}(\text{OEt}_2)_2][\text{Al}\{\text{OC}(\text{CF}_3)_3\}_4]$ and $[\text{H}(\text{THF})_2][\text{Al}\{\text{OC}(\text{CF}_3)_3\}_4]$

Keywords: Acidity / Aluminum / Brønsted acids / IR spectroscopy / Hydrogen bonds



CORRECTION

1991 A. Scherer, K. Kollak, A. Lützen,
M. Friedemann, D. Haase, W. Saak,
R. Beckhaus*

Low-Valent Titanium–Pentafulvene Complexes
– Formation of Dinuclear Titanium–Nitrogen
Complexes

Keywords: Titanium / Bridging ligands / Nitrogen / Metallocenes / Fulvene ligands