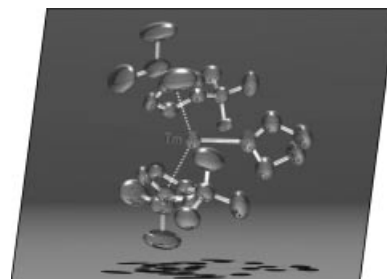


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COVER PICTURE

The cover picture shows the X-ray crystal structure of bis(1,3-di-*tert*-butylcyclopentadienyl)thulium(tetrahydrofuran), a new organothulium(II) complex and the first one with all-carbon π -ligands. Two new and particularly stable phospholythulium(II) complexes are also described. The very existence and relative ease of formation of the so far described thulium(II) molecular compounds strongly suggest that many more such compounds can be prepared, provided that adequate steric and/or electronic protection of the thulium(II) ion can be achieved, thus paving the way to new and hopefully exciting studies in the field of thulium(II) chemistry. Details are discussed in the article by F. Nief et al. on p. 637 ff. The cover picture was rendered in POV-Ray 3.5, and the initial input file was obtained with Louis J. Farrugia's ORTEP-III for Windows programme.



SHORT COMMUNICATION

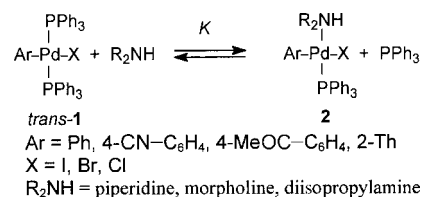
Contents

631 A. Jutand,* S. Négri, A. Principaud



Formation of ArPdXL(amine) Complexes by
 Substitution of One Phosphane Ligand by an
 Amine in *trans*- $\text{ArPdX}(\text{PPh}_3)_2$ Complexes

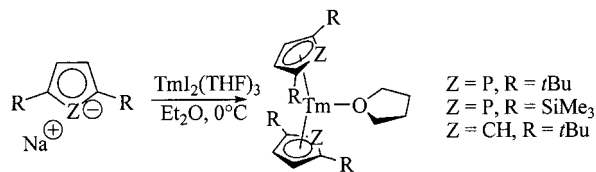
Keywords: Amines / Phosphanes / Palladium / Ligand
 substitution



637 F. Nief,* B. Tayart de Borms, L. Ricard, D. Carmichael

New Complexes of Divalent Thulium with Substituted Phospholyl and Cyclopentadienyl Ligands

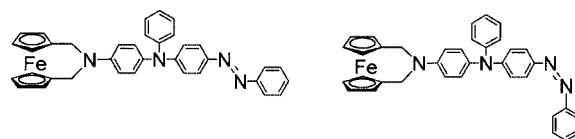
Keywords: Phosphorus heterocycles / Lanthanides / Subvalent compounds / Thulium / Cyclopentadienyl ligands



644 T. Sakano, M. Horie, K. Osakada,* H. Nakao

Azaferrocenophanes with Azobenzene-Containing Ligands – Protonation and Electrochemical Oxidation of the Molecule Influences the Absorption Spectra and *cis-trans* Isomerization of the Azobenzene Group

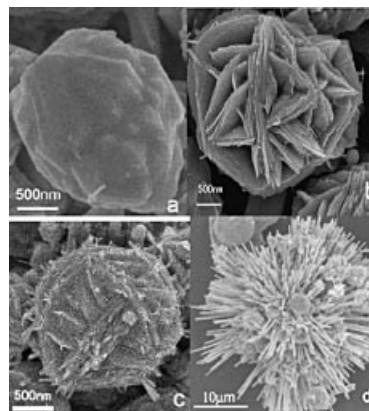
Keywords: Azobenzene / Chromophores / Ferrocene / Photochemistry / Redox chemistry



653 W. Zhang, L. Xu, K. Tang, F. Li, Y. Qian*

Solvothermal Synthesis of NiS 3D Nanostructures

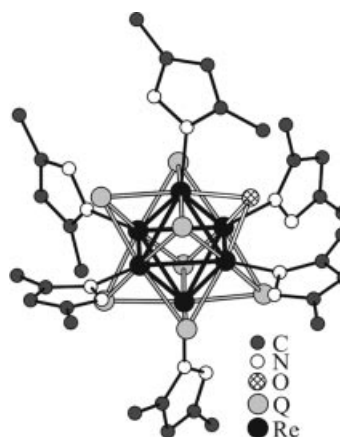
Keywords: Nickel sulfide / Nanostructures / Complexes / Crystal growth



657 Y. V. Mironov,* M. A. Shestopalov, K. A. Brylev, S. S. Yarovoi, G. V. Romanenko, V. E. Fedorov, H. Spies, H.-J. Pietzsch, H. Stephan, G. Geipel, G. Bernhard, W. Kraus

[Re₆Q₇O(3,5-Me₂PzH)₆]Br₂·3,5-Me₂PzH (Q = S, Se) – New Octahedral Rhenium Cluster Complexes with Organic Ligands: Original Synthetic Approach and Unexpected Ligand Exchange in the Cluster Core

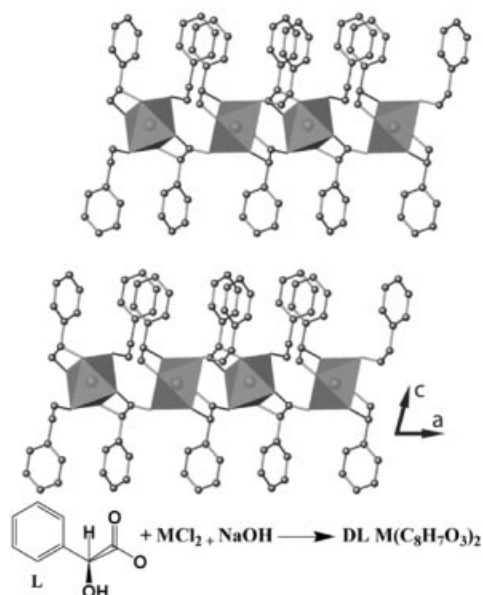
Keywords: Rhenium / Cluster compounds / Ligand exchange / Organic ligands / Structure elucidation / Laser fluorescence spectroscopy



662 A. Beghidja, S. Hallynck, R. Welter,*
P. Rabu*

Syntheses, Structures and Magnetic Properties
of Layered Metal(II) Mandelates

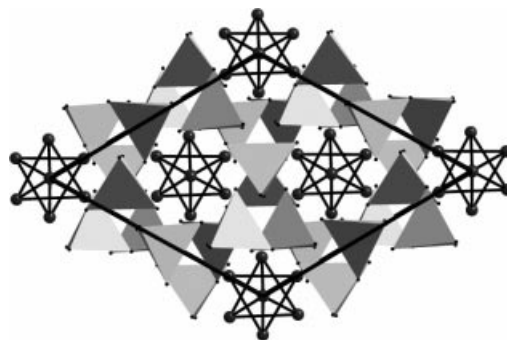
Keywords: Carboxylate ligands / Layered compounds /
Magnetic properties / Transition metals /
X-ray powder diffraction



670 M. Lindsjö, A. Fischer, L. Kloo*

Improvements of and Insights into the Isolation
of Bismuth Polycations from Benzene Solution
– Single-Crystal Structure Determinations of
 $\text{Bi}_8[\text{GaCl}_4]_2$ and $\text{Bi}_5[\text{GaCl}_4]_3$

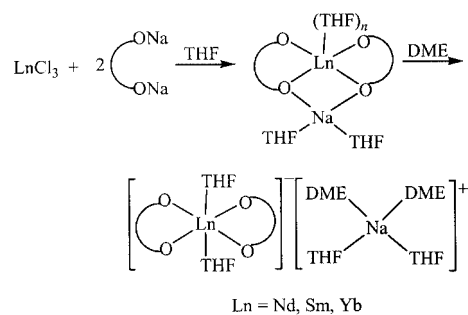
Keywords: Bismuth / Cluster compounds / Poly-
cations / Subvalent compounds



676 X. Xu, M. Ma, Y. Yao,* Y. Zhang, Q. Shen*

Synthesis, Characterisation of Carbon-Bridged
(Diphenolato)lanthanide Complexes and Their
Catalytic Activity for Diels–Alder Reactions

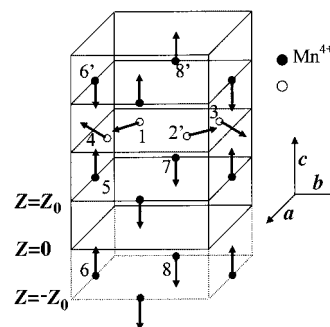
Keywords: Lanthanides / O ligands / Structure eluci-
dation / Catalysis / Diels–Alder reaction /
Cyclopentadiene



685 A. Muñoz,* J. A. Alonso, M. T. Casais,
M. J. Martínez-Lope, J. L. Martínez,
M. T. Fernández-Díaz

A Study of the Magnetic Structure of LaMn_2O_5
from Neutron Powder Diffraction Data

Keywords: Lanthanides / Magnetic properties / Neu-
tron diffraction / Spin glass / Superex-
change interaction

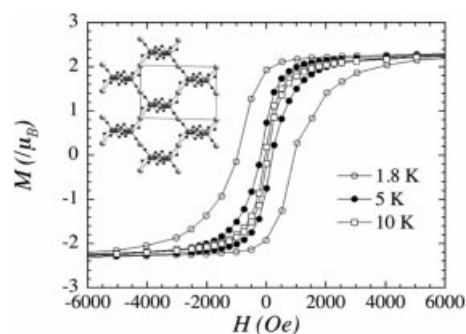


- 692 M. Viertelhaus, P. Adler, R. Clérac,
C. E. Anson, A. K. Powell*



Iron(II) Formate $[\text{Fe}(\text{O}_2\text{CH})_2] \cdot 1/3\text{HCO}_2\text{H}$: A Mesoporous Magnet – Solvothermal Syntheses and Crystal Structures of the Isomorphous Framework Metal(II) Formates $[\text{M}(\text{O}_2\text{CH})_2] \cdot n(\text{Solvent})$ ($\text{M} = \text{Fe}, \text{Co}, \text{Ni}, \text{Zn}, \text{Mg}$)

Keywords: Iron / Solvothermal synthesis / Framework material / Magnetic properties / Mössbauer spectroscopy

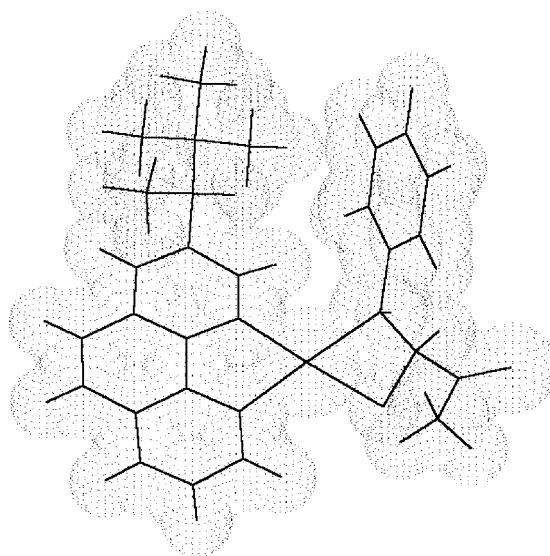


- 704 M. Calligaris, E. Zangrando,* B. Milani,
A. Marson



Stereochemical Investigation of Palladium(II) Complexes with Phenanthroline Ligands: A Molecular Mechanics Approach

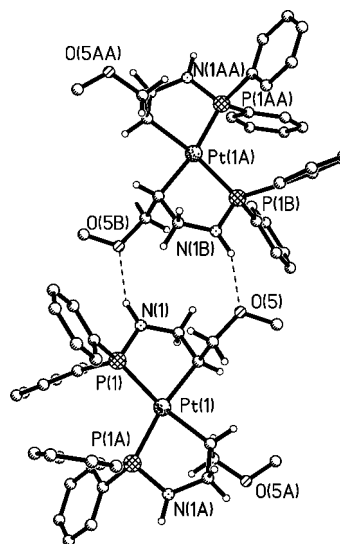
Keywords: Stereochemistry / Molecular mechanics / Copolymerisation / Phenanthroline / Palladium



- 713 A. M. Z. Slawin, J. Wheatley,
J. D. Woollins*

Preparation and Coordination Chemistry of *n*-Allylaminophosphane

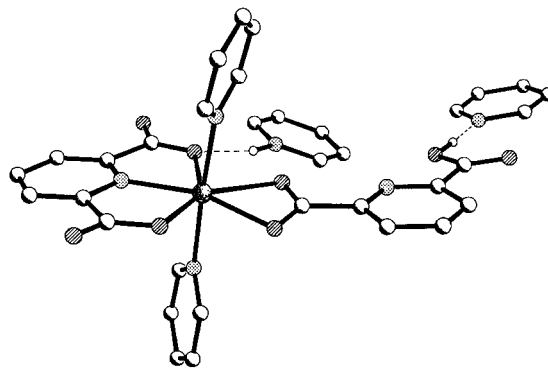
Keywords: Phosphanes / Alkenes / Hemilabile complexes / X-ray structures



721 S. L. Jain, A. M. Z. Slawin, J. D. Woollins,*
P. Bhattacharyya

The Reactions of Elemental Iron with Dipicolinic Acid (H_2dipic) and Quinaldic Acid ($Hquin$) – X-ray Crystal Structures of $[C_5H_5NH][Fe(Dipic)(Hdipic)(C_5H_5N)_2] \cdot 3C_5H_5N$, $[Fe_2(\mu-O)(Dipic)_2(C_5H_5N)_4] \cdot 2C_5H_5N \cdot 2H_2O$ and *trans*- $[Fe(Quin)_2(MeOH)_2]$

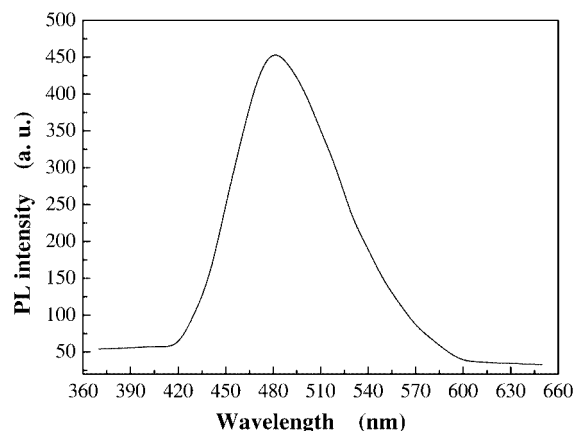
Keywords: Iron / Dipicolinic acid / Carboxylates / Quinaldic acid / Gif chemistry



727 Y.-d. Wang,* S. Zhang, X.-h. Wu

Green Light Luminescence from ZnO/Dodecylamine Mesolamellar Nanocomposites Synthesized by Self-Assembly

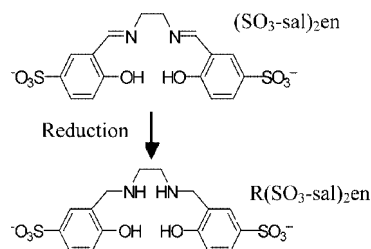
Keywords: Mesoporous materials / Nanocomposites / Luminescence / Interfacial interactions



732 I. Correia, J. Costa Pessoa,* M. T. Duarte,
M. F. M. da Piedade, T. Jackush, T. Kiss,*
M. M. C. A. Castro, C. F. G. C. Geraldes,
F. Aveçilla

Vanadium(IV and V) Complexes of Schiff Bases and Reduced Schiff Bases Derived from the Reaction of Aromatic *o*-Hydroxyaldehydes and Diamines: Synthesis, Characterisation and Solution Studies

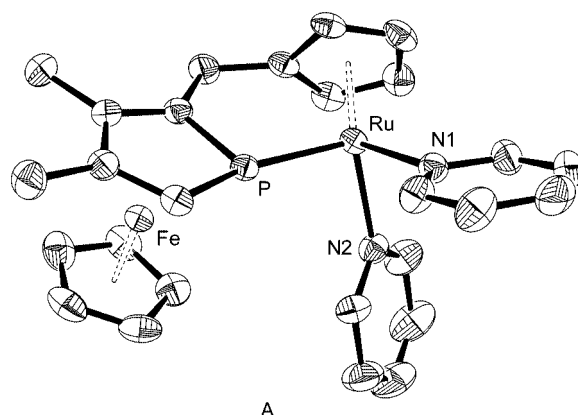
Keywords: Vanadium complexes / Schiff bases / Reduced Schiff bases / Crystal structures / Speciation



745 L. Jekki, C. Pala, B. Calmuschi, C. Ganter*

Synthesis of Chiral, Half-Sandwich Ruthenium Complexes from Weakly Coordinated Solvent Species

Keywords: Chirality / P ligands / Ruthenium / Sandwich complexes

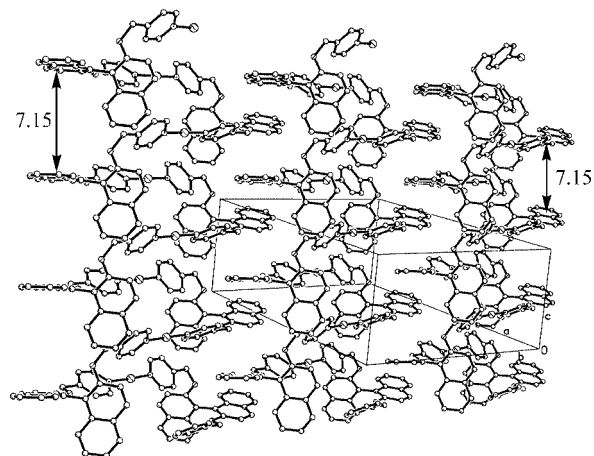


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R. Wang, L. Xu, J. Ji, Q. Shi, Y. Li,
Z. Zhou, M. Hong,* A. S. C. Chan*

Metal-Directed Stereoselective Syntheses of Homochiral Complexes of *exo*-Bidentate Binaphthol Derivatives

Keywords: Cadmium / N ligands / Palladium / Silver / Zinc

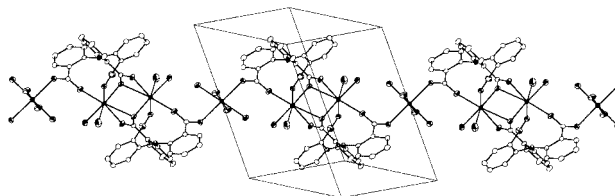


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S. Wörl, I. O. Fritsky, D. Hellwinkel,
H. Pritzkow, R. Krämer*

Mono-, Di- and Polymeric Calcium and Gadolinium Complexes of the Tripodal Ligand 2,2',2''-Nitrilotribenzoic Acid

Keywords: Calcium / Gadolinium / N,O ligands / Tripodal ligands / X-ray crystallography

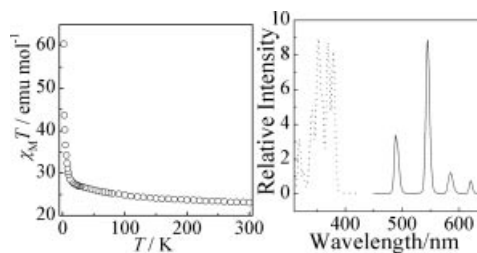


766

H.-T. Zhang, Y. Song, Y.-X. Li, J.-L. Zuo,
S. Gao, X.-Z. You*

Three-Dimensional Lanthanoid-Containing Coordination Frameworks: Structure, Magnetic and Fluorescent Properties

Keywords: Lanthanides / Coordination polymers / Magnetic properties / Fluorescence / Solid-state structures

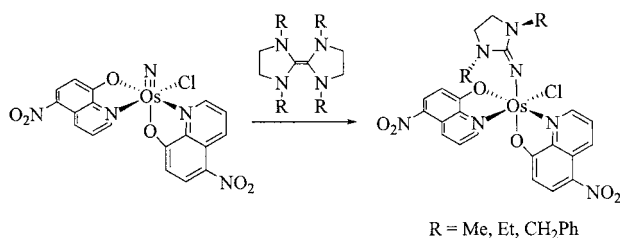


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C.-F. Leung, T.-W. Wong, T.-C. Lau,*
W.-T. Wong

Addition of Carbenes to an Osmium(IV) Nitride Complex

Keywords: Carbenes / N,O ligands / Nitrides / Osmium / Vinylidene ligands



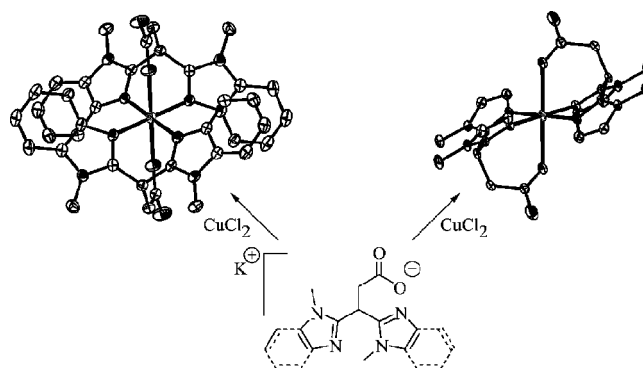
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P. C. A. Bruijninx, M. Lutz, A. L. Spek,
E. E. van Faassen, B. M. Weckhuysen,
G. van Koten, R. J. M. Klein Gebbink*



Bis(1-methylimidazol-2-yl)propionates and Bis-(1-methylbenzimidazol-2-yl)propionates: A New Family of Biomimetic *N,N,O* Ligands – Synthesis, Structures and Cu^{II} Coordination Complexes

Keywords: N,N,O ligands / Ligand design / Facial capping / Copper / Carboxylate ligands



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S. A. De Pascali, P. Papadia, A. Ciccarese,
C. Pacifico, F. P. Fanizzi*



First Examples of β -Diketonate Platinum(II) Complexes with Sulfoxide Ligands

Keywords: Platinum / β -Diketonate / S ligands

