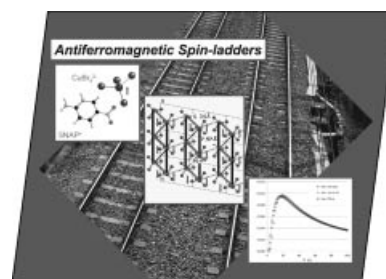


Earliest available Table of Contents:
 Automatically, free of charge by e-mail through
www.interscience.wiley.com/alerts

COVER PICTURE

The cover picture shows the properties of the antiferromagnetic molecular spin-ladder built by combining the 5NAP⁺ diamagnetic cations and the CuBr₄²⁻ radical anions. The upper left box shows the structure of the two ions, the middle box its magnetic topology (the weakly interacting two-leg ladders are clearly marked), while the lower box shows the experimental and computed magnetic susceptibility curves. Details are discussed in the article by M. Deumal, J. J. Novoa et al. on p. 4697ff.



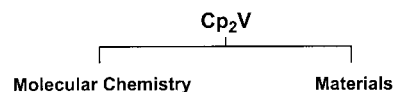
MICROREVIEW

Contents

4683 R. Choukroun,* C. Lorber

Adventures in Vanadocene Chemistry

Keywords: Alkynes / Ceramics / Colloids / Metallo-
 cenes / Nitriles / Vanadium

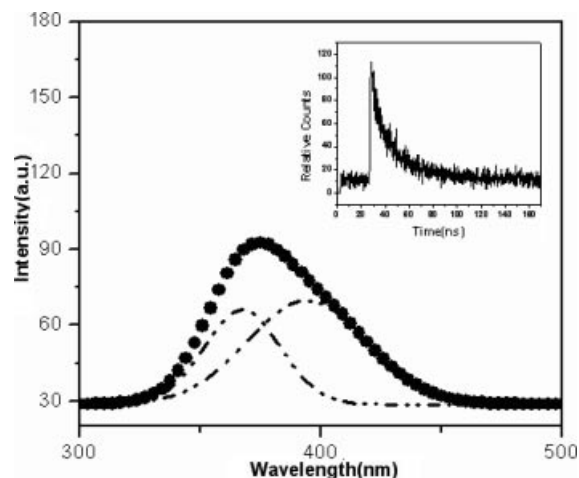


SHORT COMMUNICATION

4693 M.-R. Li, W. Liu, H.-H. Chen, X.-X. Yang, Z.-B. Wei, D.-H. Cao, M. Gu, J.-T. Zhao*

Low-Temperature Flux Synthesis, Crystal Structure and Ce-Doped Luminescence of the First Lutetium Diphosphate $\text{NH}_4\text{LuP}_2\text{O}_7$

Keywords: Low-temperature self-flux synthesis / Structure / Diphosphate / Luminescence

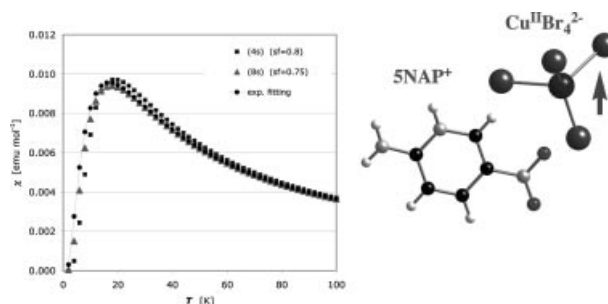


FULL PAPERS

4697 M. Deumal,* G. Giorgi, M. A. Robb, M. M. Turnbull, C. P. Landee, J. J. Novoa*



The Mechanism of Magnetic Interaction in Spin-Ladder Molecular Magnets: A First-Principles, Bottom-Up, Theoretical Study of the Magnetism in the Two-Legged Spin-Ladder Bis(2-amino-5-nitropyridinium) Tetrabromocuprate Monohydrate

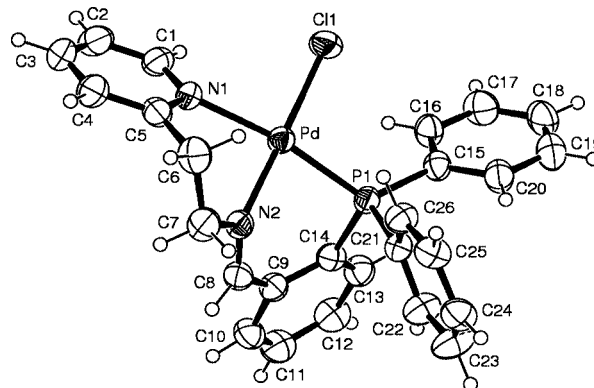


Keywords: Copper / Density functional calculations / Magnetic properties / Spin-ladders / Structure-activity relationships

4707 A. Del Zotto,* E. Zangrando, W. Baratta, A. Felluga, P. Martinuzzi, P. Rigo

$[\text{MCl}(\text{ligand})]^+$ Complexes ($\text{M} = \text{Ni}, \text{Pd}, \text{Pt}$) with a P,N,N Terdentate Ligand – Solid State and Solution Structures and Catalytic Activity of the Pd^{II} Derivative in the Heck Reaction

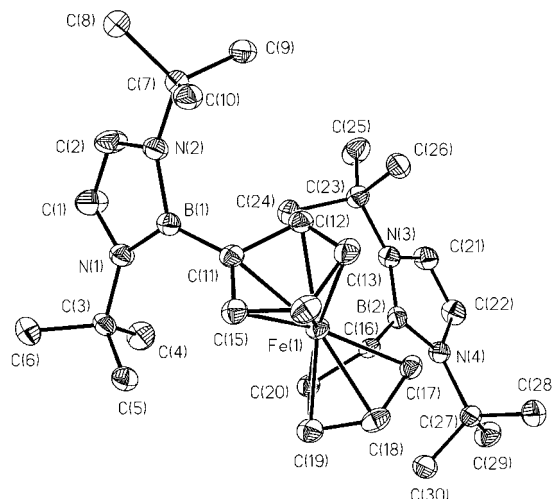
Keywords: Nickel / Palladium / Platinum / Terdentate hybrid ligands / Heck reaction



4715 L. Weber,* I. Domke, H.-G. Stammer,
B. Neumann

Synthetic, Structural, and Electrochemical Studies of 2-Ferrocenyl- and 2-Cymantrenyl-Functionalized 2,3-Dihydro-1*H*-1,3,2-diazaboroles and 1,3,2-Diazaborolidenes

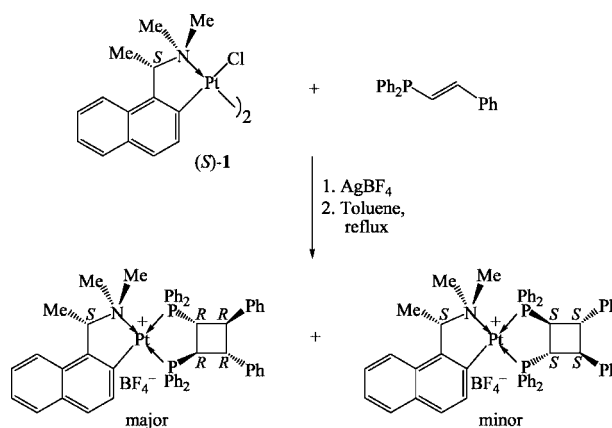
Keywords: Boron / Cyclic voltammetry / Ferrocene / Methylcymantrene



4723 W.-C. Yeo, G.-K. Tan, L. L. Koh,
P.-H. Leung*

Asymmetric [2+2] Cycloaddition of (*E*)-2-(Diphenylphosphanyl)styrene Promoted by a Chiral Metal Template

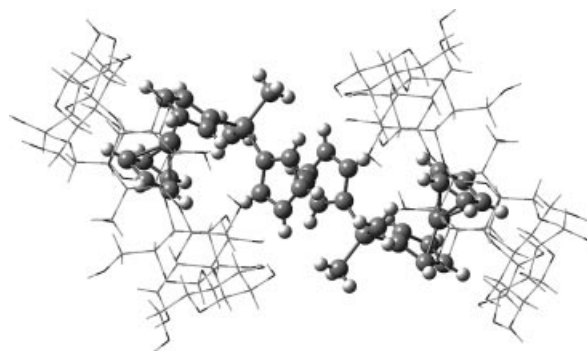
Keywords: Asymmetric synthesis / Cycloaddition / Platinum / Phosphane ligands / Template synthesis



4729 J. A. Fernandes, S. Lima, S. S. Braga,
M. Pillinger, J. E. Rodríguez-Borges,
P. Ribeiro-Claro,* J. J. C. Teixeira-Dias,
I. S. Gonçalves*

Experimental and Theoretical Study of the Encapsulation of a Linear Oligo(ferrocenylsilane) Trimer with β -Cyclodextrin

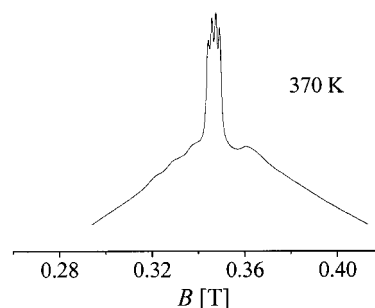
Keywords: Cyclodextrins / Ferrocene / Inclusion compounds / Oligo(ferrocenes) / Ab initio calculations



4735 S. Ye, B. Sarkar, M. Niemeyer, W. Kaim*

Mixed-Ligand Copper Complexes with 8-Methylthioquinoline and Triphenylphosphane or the *o*-Semiquinone/Catecholate Redox System

Keywords: Copper / Crystal structure / EPR spectroscopy / Heterocycles / Thioether ligands

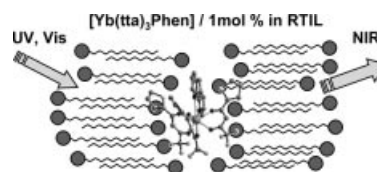


4739 L. N. Puntus, K. J. Schenk, J.-C. G. Bünzli*



Intense Near-Infrared Luminescence of a Mesomorphic Ionic Liquid Doped with Lanthanide β -Diketonate Ternary Complexes

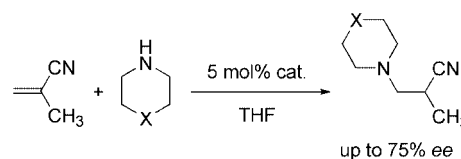
Keywords: Ionic liquids / Liquid crystals / Lanthanides / Near infrared luminescence / Quantum yield / Small-angle X-ray diffraction



4745 S. Gischig, A. Togni*

Pd^{II} Complexes of Tridentate PCP N-Heterocyclic Carbene Ligands: Structural Aspects and Application in Asymmetric Hydroamination of Cyano Olefins

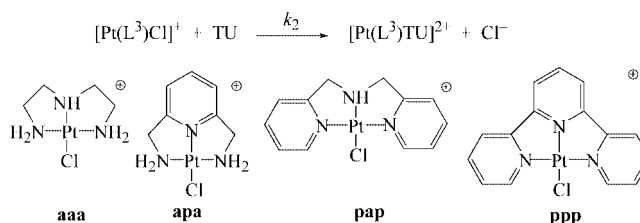
Keywords: N-heterocyclic carbene ligands / Ferrocenes / Palladium complexes / Asymmetric catalysis / Hydroamination / Aminonitriles



4755 C. F. Weber, R. van Eldik*

Influence of Solvent on Ligand-Substitution Reactions of Pt^{II} Complexes as Function of the π -Acceptor Properties of the Spectator Chelate

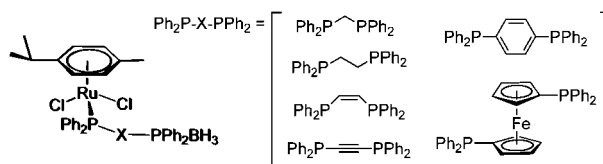
Keywords: Solvent effects / Kinetics / Platinum(II) chemistry / Ligand effects / UV/Vis spectroscopy



4762 A. B. Chaplin, R. Scopelliti, P. J. Dyson*

The Synthesis and Characterisation of Bis(phosphane)-Linked (η^6 -*p*-Cymene)Ruthenium(II)–Borane Compounds

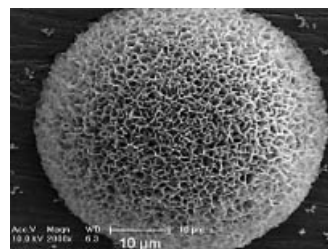
Keywords: Ruthenium / P ligands / Bridging ligands / Coordination modes / Boranes



4775 X. Wu, G. Shi,* S. Wang, P. Wu

Formation of 3D Dandelions and 2D Nanowalls of Copper Phosphate Dihydrate on a Copper Surface and Their Conversion into a Nanoporous CuO Film

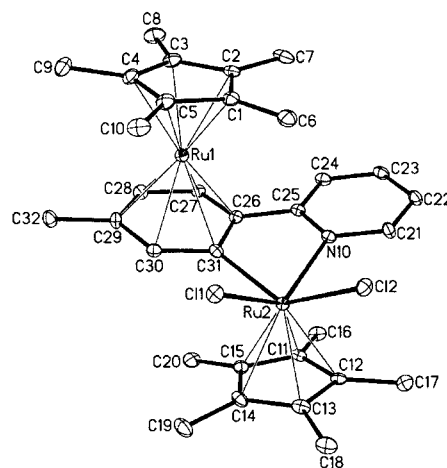
Keywords: Copper / Materials science / Nanostructures / Oxides / Phosphates



4780 Q.-F. Zhang, K.-M. Cheung, I. D. Williams,
W.-H. Leung*

Cyclometalated Ruthenium Compounds Containing 2-(2'-Pyridyl)-4-methylphenyl and Benzo-[h]quinolyl Ligands

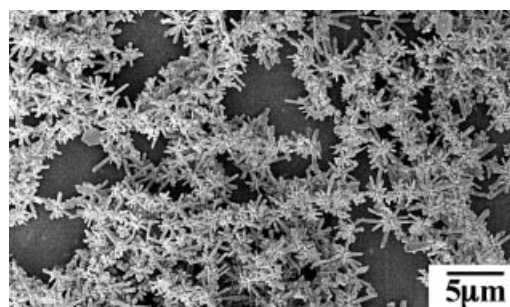
Keywords: Ruthenium / Cyclometalated ligands / Organometallic compounds / Transition metals



4788 X. Ni, Q. Zhao, H. Zheng,* B. Li, J. Song,
D. Zhang, X. Zhang

A Novel Chemical Reduction Route towards the Synthesis of Crystalline Nickel Nanoflowers from a Mixed Source

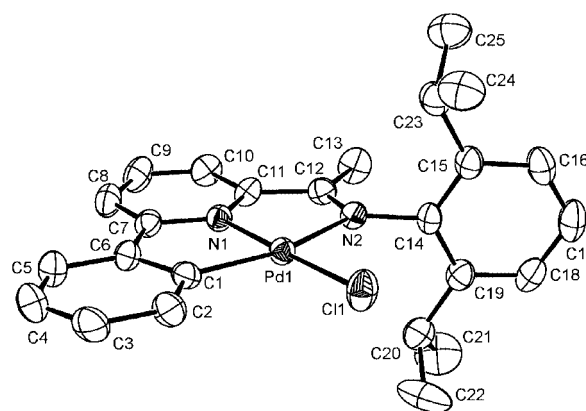
Keywords: Nickel / Nanostructures / Chemical reduction / Crystal growth



4794 C. Bianchini, G. Lenoble, W. Oberhauser,*
S. Parisel, F. Zanobini

Synthesis, Characterization, and Reactivity of Neutral and Cationic Pd-C,N,N Pincer Complexes

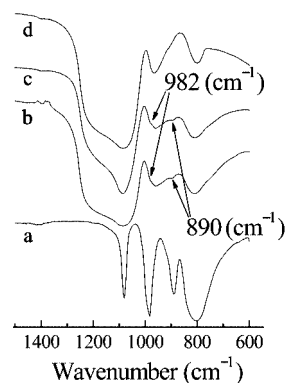
Keywords: Pd pincer / NMR spectroscopy / IR spectroscopy / Secondary phosphanes / Suzuki reaction



4801 C. Shi, R. Wang, G. Zhu, S. Qiu,*
J. Long*

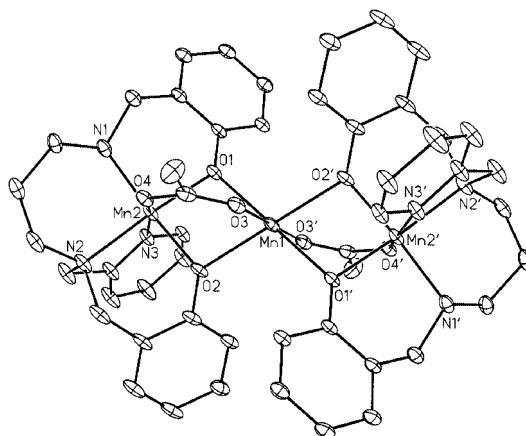
Synthesis, Characterization, and Catalytic Properties of SiPW-X Mesoporous Silica with Heteropolyacid Encapsulated into Their Framework

Keywords: Heteropolyacids / Mesoporous materials / Encapsulation / Cracking / Esterification / Bulky molecule reactions



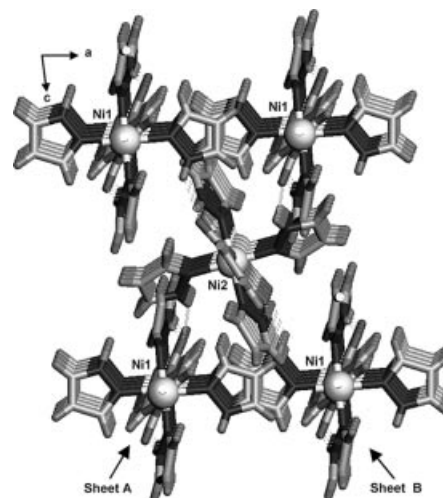
Synthesis, Structure and Characterisation of a New Trinuclear Di- μ -phenolato- μ -carboxylato $\text{Mn}^{\text{III}}\text{Mn}^{\text{II}}\text{Mn}^{\text{III}}$ Complex with a Bulky Pentadentate Ligand: Chemical Access to Mononuclear $\text{Mn}^{\text{IV}}\text{--OH}$ Entities

Keywords: EPR spectroscopy / Manganese / Mass spectrometry / N,O ligands / Oxidation



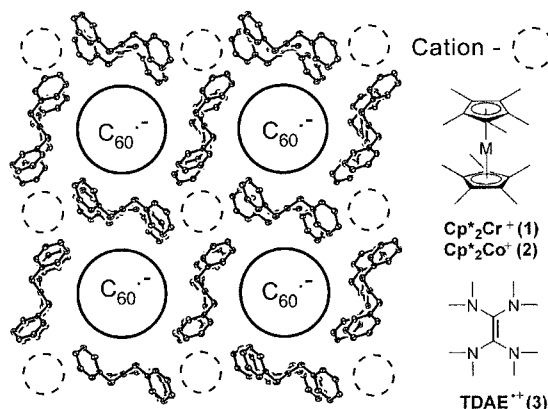
A Terephthalato-Bridged Ni^{II} Complex Capped with a Nonchelating Ligand Displays a Three-Dimensional Supramolecular Network Constructed by Coordination and Multi-Intermolecular Forces

Keywords: Magnetic properties / Nickel / Noncovalent interactions / O ligands / Supramolecular chemistry



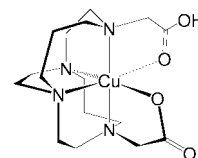
Crystal Structures, EPR Spectra, and Magnetic Properties of a Series of Ionic Multi-Component Complexes $[(\text{TBPDA})_2(\text{C}_{60}^{\bullet-})(\text{D}^+)]$ ($\text{D} = \text{Cp}^*_2\text{Cr}, \text{Cp}^*_2\text{Co}, \text{TDAE}$)

Keywords: Crystal engineering / EPR spectroscopy / Fullerenes / IR spectroscopy / Magnetic properties / Metallocenes



Kinetic Inertness and Electrochemical Behavior of Copper(II) Tetraazamacrocyclic Complexes: Possible Implications for in Vivo Stability

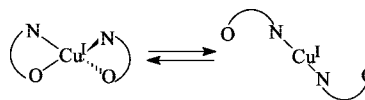
Keywords: Macrocyclic ligands / N ligands / Copper



4834 M. G. B. Drew, J. P. Naskar, S. Chowdhury,
D. Datta*

A Fluxional $\text{Cu}^{\text{I}}\text{N}_2\text{O}_2$ Core: Binding of a Keto
Oxygen Atom to Cu^{I} and Ag^{I}

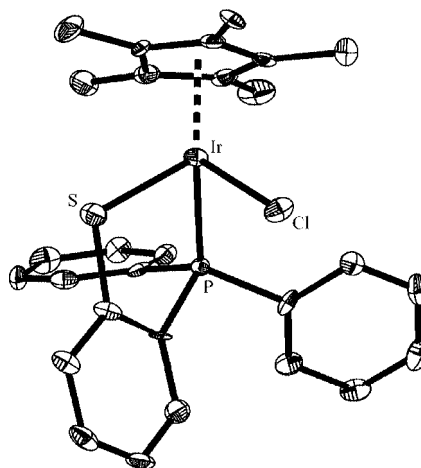
Keywords: Copper / Fluxional compounds / N
ligands / O ligands / Silver



4840 M. Gorol, H. W. Roesky,* M. Noltemeyer,
H.-G. Schmidt

(η^5 -Pentamethylcyclopentadienyl)iridium(III)
Complexes with η^2 -N,O and η^2 -P,S Ligands

Keywords: Cyclopentadienyl ligands / Iridium / N,O
ligands / P,S ligands



Fast, Individual, Popular...
REPRINTS
Available to order anytime!
Contact Carmen Leitner (e-mail: cleitner@wiley-vch.de)