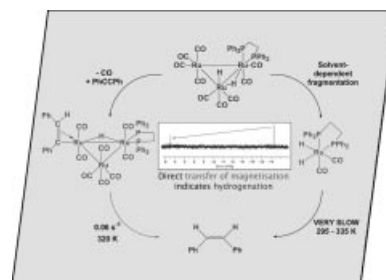


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COVER PICTURE

The cover picture shows the reaction pathways available to $\text{Ru}_3(\text{CO})_{10}(\text{dppe})$ in the catalytic hydrogenation of diphenylacetylene, as elucidated by parahydrogen-assisted NMR spectroscopy. The cluster leads to catalytic hydrogenation via a detected vinyl hydride intermediate, but fragments in low polarity solvents. Details are discussed in the article by S. B. Duckett et al. on p. 4381 ff. We thank Universities UK (ORS award), Bruker Biospin UK and The University of York for financial support.



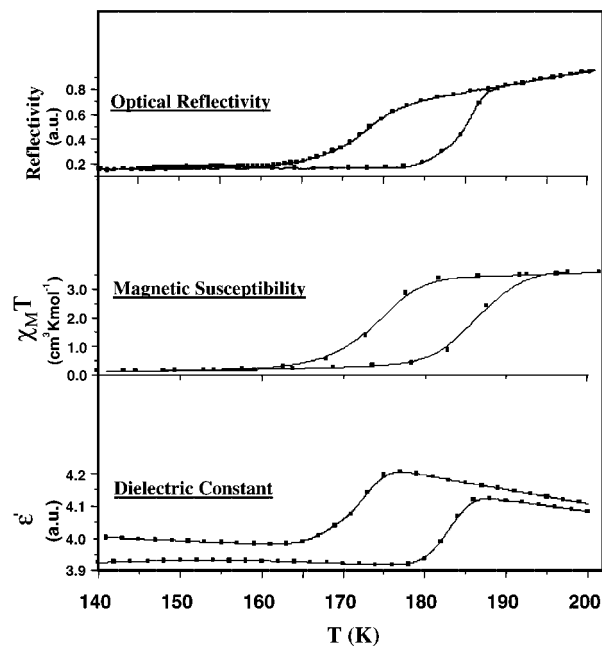
MICROREVIEW

Contents

4353 A. Bousseksou,* G. Molnár,
G. Matouzenko

Switching of Molecular Spin States in Inorganic Complexes by Temperature, Pressure, Magnetic Field and Light: Towards Molecular Devices

Keywords: Spin crossover / Metastability / Hysteresis loop / Pressure / Magnetic field / Dielectric properties / Ising-like model



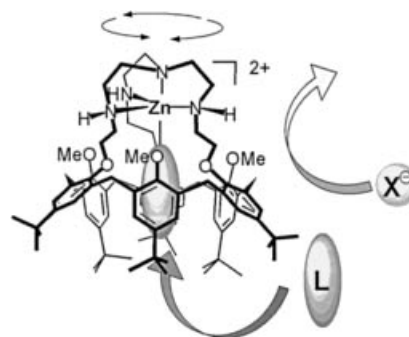
Short Communications

- 4371** U. Darbost, X. Zeng, M.-N. Rager,
M. Giorgi, I. Jabin,* O. Reinaud*



X-ray and Solution Structures of the First Zn Funnel Complex Based on a Calix[6]aza-cryptand

Keywords: Calixarenes / Cryptands / Host-guest systems / Supramolecular chemistry / Zinc

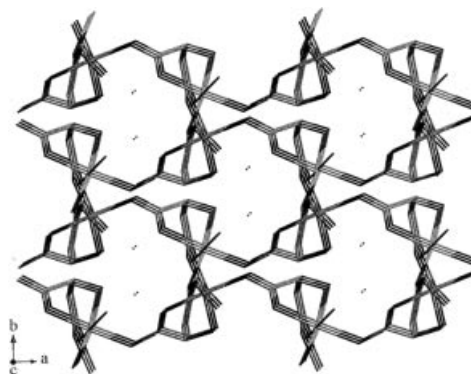


- 4375** F.-T. Xie, L.-M. Duan, J.-Q. Xu,* L. Ye,
Y.-B. Liu, X.-X. Hu, J.-F. Song



Solvothermal Syntheses and Structural Characterisation of Three Isostructural 3D Metal-Malate Coordination Polymers: $\{[M(C_4H_4O_5)(H_2O)] \cdot H_2O\}_n$ ($M = Co^{II}, Ni^{II}, Co^{II}/Ni^{II}$)

Keywords: Malate bridges / Solvothermal synthesis / Coordination polymer / Quinque-dentate ligand



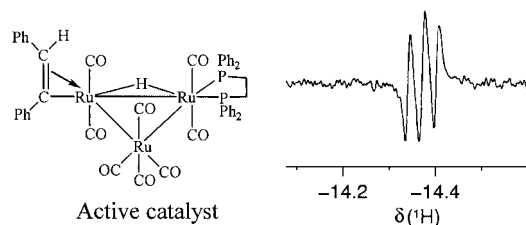
Full Papers

- 4381** T. G. Prestwich, D. Blazina, S. B. Duckett,*
P. J. Dyson



A Parahydrogen Study of Catalytic Hydrogenation by Diphosphane-Substituted Triruthenium Clusters

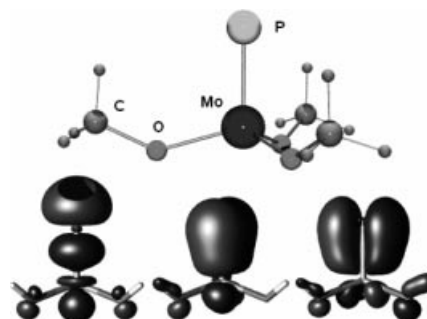
Keywords: Homogeneous catalysis / Cluster compounds / NMR spectroscopy / Parahydrogen / Ruthenium



- 4388** K. K. Pandey,* G. Frenking*

The Nature of the $M \equiv E$ Bond: Theoretical Investigation of the Molecules $[(RO)_3M \equiv E]$ ($M = Mo, W; E = N, P, As, Sb, Bi; R = H, Me$) and $[(Me_3CO)_3Mo \equiv P]$

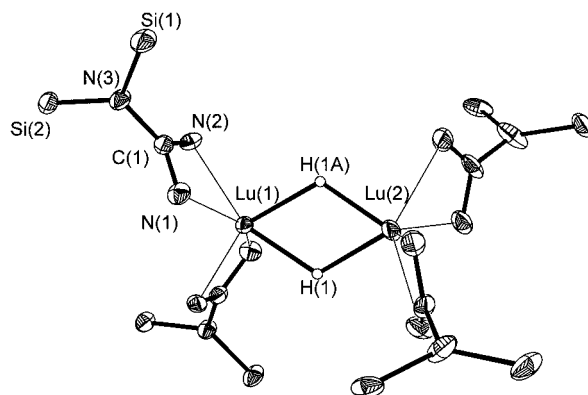
Keywords: Nitrido complexes / Bonding analysis / Density functional calculations / Metal-ligand triple bond / Pnictogens



4396 A. A. Trifonov,* E. A. Fedorova,
G. K. Fukin, M. N. Bochkarev

Post-Metallocene Hydridolanthanide Chemistry: $[\text{Lu}\{(\text{Me}_3\text{Si})_2\text{NC}(\text{NiPr})_2\}_2(\mu\text{-H})_2]_2$ – A Novel Lanthanide Hydride in a Non-Cyclopentadienyl Coordination Environment; Synthesis, Structure and Catalytic Activity in Olefin Polymerization

Keywords: Alkyl complexes / Homogeneous catalysis / Hydride ligands / Lanthanides / N ligands

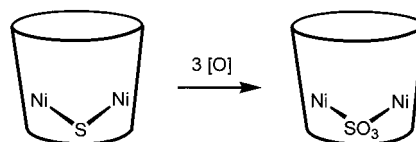


4402 J. Hausmann, S. Käss, S. Klod,
E. Kleinpeter, B. Kersting*



Binucleating Aza-Sulfonate and Aza-Sulfinate Macrocycles – Synthesis and Coordination Chemistry

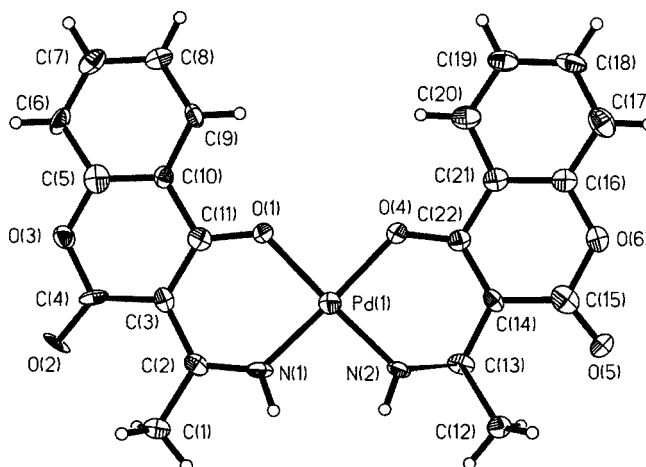
Keywords: Cavitands / Macrocyclic ligands / Nickel / S ligands



4412 E. Budzisz,* B. K. Keppler, G. Giester,
M. Wozniczka, A. Kufelnicki, B. Nawrot

Synthesis, Crystal Structure and Biological Characterization of a Novel Palladium(II) Complex with a Coumarin-Derived Ligand

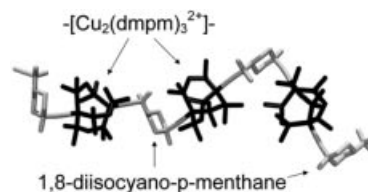
Keywords: Circular dichroism / Cytotoxicity / DNA / Palladium / Protonation constants



4420 É. Fournier, A. Decken, P. D. Harvey*

Small Metal-Containing Oligomers Using $\text{M}_2(\text{dmpm})_x$ and $\text{M}_2(\text{dmb})_y$ Luminescent Building Blocks (M = Cu, Ag; $x = 2, 3$; $y = 1, 2$)

Keywords: Coordination polymers / Oligomers / Silver / Copper / Luminescence



4430 G. Aullón,* S. Alvarez



Formation of Sulfur–Sulfur Bonds in Copper Complexes

Keywords: Copper-sulfur complexes / Ligand–ligand bonds / Density functional calculations / Through-ring bonding / Electronic structure

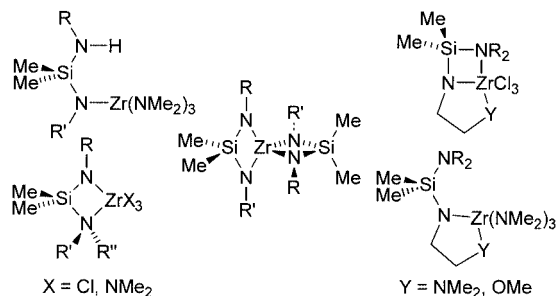


4439 V. Passarelli,* P. Zanella



Unsymmetrically Substituted Dimethyldiamino-
silanes as Ligands towards Zirconium(IV)

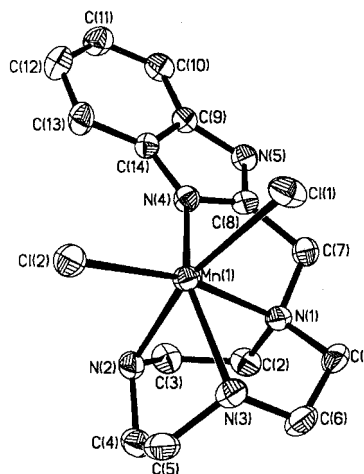
Keywords: Zirconium / N ligands / Chelates / Silicon



4447 Q.-X. Li, Q.-H. Luo,* Y.-Z. Li,* Z.-Q. Pan,
M.-C. Shen

Studies on Manganese(II) Complexes of *N*-
Benzimidazole-Functionalized 1,4,7-Triazacy-
clononane: Crystal Structures, Properties and
Combined Superoxide Dismutase and Catalase
Functions

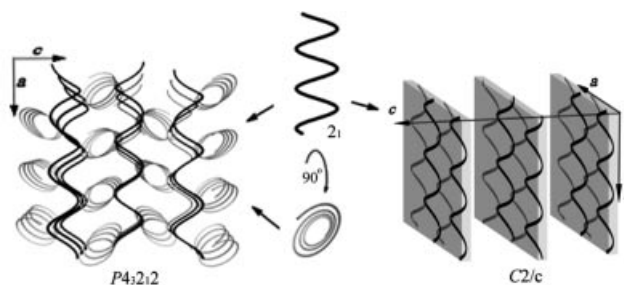
Keywords: Enzyme models / Manganese / N ligands /
Superoxide dismutase



4457 Y. Xu, L. Han, Z.-Z. Lin, C.-P. Liu,
D.-Q. Yuan, Y.-F. Zhou, M.-C. Hong*

Oxidation-State and Coordination-Site Spec-
ificity Influencing Dimensional Extension and
Properties of Two Iron Complexes with Similar
Helical Chains

Keywords: Iron / Helical chains / Coordination
polymer / Oxidation state

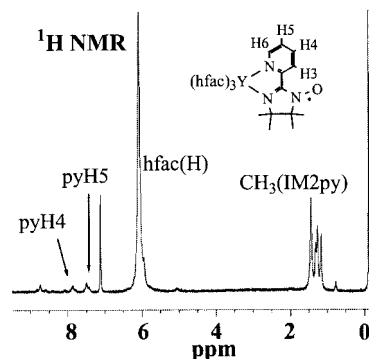


4463 T. Tsukuda, M. Ogita, T. Suzuki,
S. Kaizaki*



Anomalous Diamagnetic Behaviour of the ^1H
NMR Spectra of a Coordinated Imino Nitroxide
Radical in Diamagnetic and Paramagnetic
Lanthanide(III) Complexes

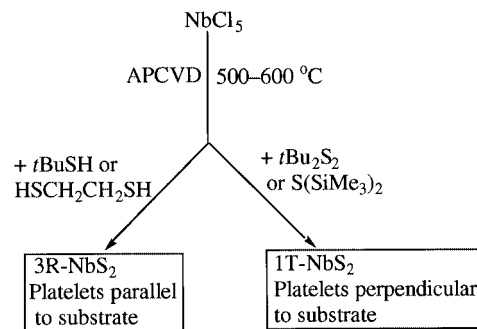
Keywords: ^1H NMR / Imino nitroxide radical /
Lanthanide complexes / LIS analysis /
Diamagnetic NMR behaviour



4470 C. J. Carmalt,* E. S. Peters, I. P. Parkin,
T. D. Manning, A. L. Hector

Chemical Vapor Deposition of Niobium Disulfide Thin Films

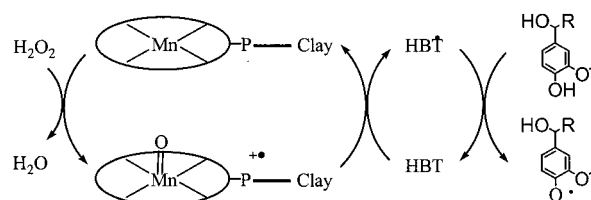
Keywords: Niobium disulfide / Thin films / Chemical vapor deposition



4477 C. Crestini,* A. Pastorini, P. Tagliatesta

The Immobilized Porphyrin-Mediator System Mn(TMePyP)/clay/HBT (clay-PMS): A Lignin Peroxidase Biomimetic Catalyst in the Oxidation of Lignin and Lignin Model Compounds

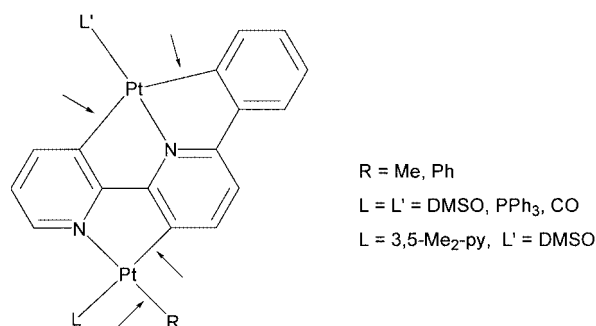
Keywords: Clays / Lignin models / Oxidation / Porphyrins / Supported catalysts



4484 A. Zucca,* M. A. Cinellu, G. Minghetti,
S. Stoccoro, M. Manassero*

Dinuclear, Tricyclometallated Platinum(II) Derivatives – Substitution Reactions and Reactivity of the Platinum–Carbon Bonds

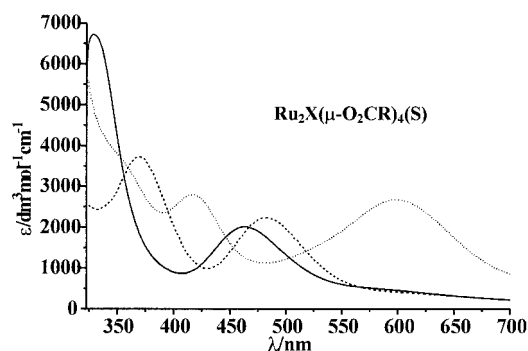
Keywords: Cyclometallated compounds / N ligands / Platinum / X-ray diffraction



4491 M. C. Barral, R. González-Prieto,
R. Jiménez-Aparicio,* J. L. Priego,
M. R. Torres, F. A. Urbanos

Synthesis, Properties, and Structural Characterization of Bromo- and Iodotetracarboxylatodiruthenium(II,III) Compounds

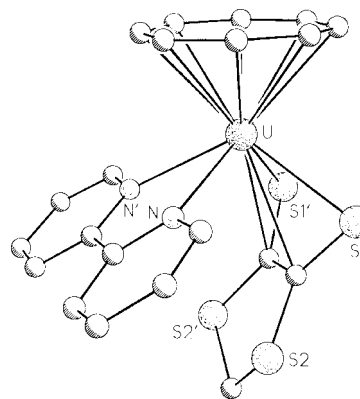
Keywords: Carboxylate ligands / Metal-metal interactions / Multiple bonds / Ruthenium / Solvatochromism



4502 T. Arliguie,* P. Thuéry, M. Fourmigué,
M. Ephritikhine

Monocyclooctatetraenyl(dithiolene)uranium
Compounds

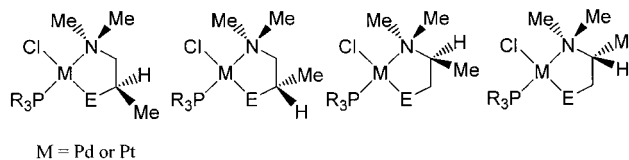
Keywords: Cyclooctatetraenyl ligands / Lewis bases /
S ligands / Uranium



4510 S. Dey, L. B. Kumbhare, V. K. Jain,*
T. Schurr, W. Kaim,* A. Klein,* F. Belaj



Structural Variety and Multiple Isomerism in
1-(Dimethylamino)propyl-2-chalcogenolate and
2-(Dimethylamino)propyl-1-chalcogenolate
Complexes of Palladium(II) and Platinum(II):
Synthesis, Spectroscopy and Structures

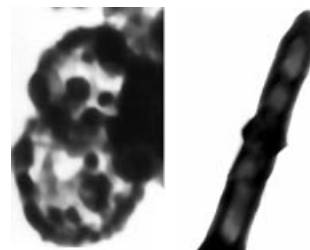


Keywords: Chalcogens / Isomers / N ligands /
Palladium / Platinum

4521 G. Zou, Z. Liu, D. Wang, C. Jiang, Y. Qian*

Selected-Control Solvothermal Synthesis of
Nanoscale Hollow Spheres and Single-Crystal
Tubes of PbTe

Keywords: Nanostructures / Semiconductors / Nano-
tubes



4525 O. Mendoza, F.-J. K. Rehmann, L. P. Cuffe,
M. Tacke*



Cocondensation Reactions of Five-Membered
Heterocycles with Lithium Atoms at 77 K

Keywords: Lithium / Heterocycles / C–H bond
activation / Cocondensation / DFT

