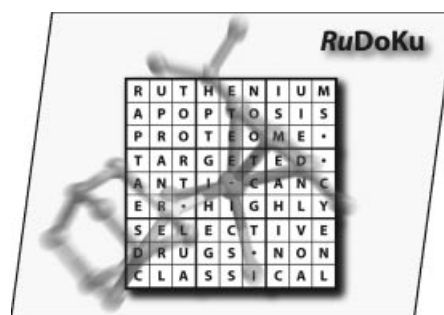


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COVER PICTURE

The cover picture shows an organoruthenium antimetastasis compound, superimposed over a Sudoku puzzle, representing the challenge of discovering new anticancer drugs and elucidating their mechanisms of action. One needs to uncover pieces of information which are interrelated, and eventually, the complete “picture” is revealed. In this review, we describe the extent to which the picture has been revealed for ruthenium-based drugs, which are currently growing in interest as a result of recent successes in clinical trials. The emphasis is directed towards classifying the vast array of ruthenium compounds already evaluated in vitro and in vivo against primary and secondary cancers within the context of their probable target. It is hoped that on the basis of the picture presented here more of this intriguing puzzle will be revealed soon. Details are presented in the Microreview by W. H. Ang and P. J. Dyson on p. 4003ff.



MICROREVIEW

Contents

4003 W. H. Ang, P. J. Dyson*

Classical and Non-Classical Ruthenium-Based
 Anticancer Drugs: Towards Targeted Chemo-
 therapy

Keywords: Ruthenium / Anticancer drugs / Targeted
 chemotherapy / DNA binding / Antimetastasis
 drugs



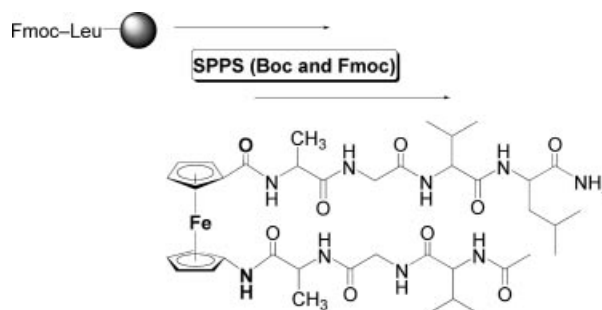
SHORT COMMUNICATIONS

4019 L. Barišić, V. Rapić, N. Metzler-Nolte*



Incorporation of the Unnatural Organometallic Amino Acid 1'-Aminoferrocene-1-carboxylic Acid (Fca) into Oligopeptides by a Combination of Fmoc and Boc Solid-Phase Synthetic Methods

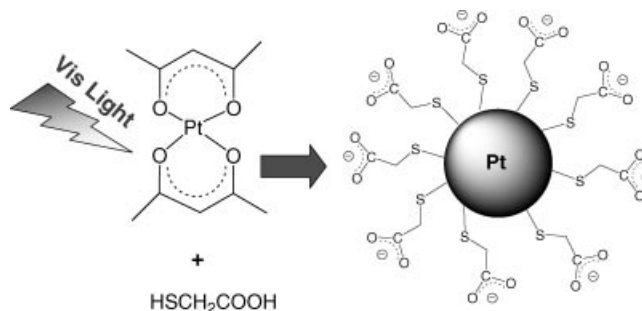
Keywords: Bioorganometallic chemistry / Ferrocene / Peptides / Solid-phase peptide synthesis / Unnatural amino acids



4022 S. Giuffrida, G. Ventimiglia, F. L. Callari, S. Sortino*

Straightforward Light-Driven Synthesis of Ultra-small, Water-Soluble Monolayer-Protected Platinum Nanoparticles

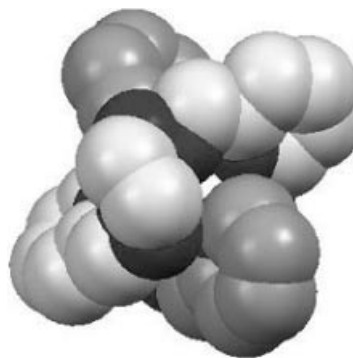
Keywords: Platinum / Nanoparticles / Monolayers / Carboxylates / Light



4026 M. G. B. Drew, D. Parui, S. De, J. P. Naskar, D. Datta*

An Eight-Coordinate Mononuclear Double Helical Complex

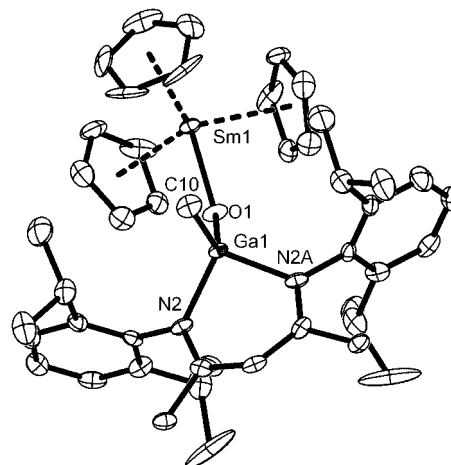
Keywords: Cadmium / Single helicate / Double helicate / N ligands / Seven-coordinate complexes / Eight-coordinate complexes



4029 S. Singh, A. Pal, H. W. Roesky,* R. Herbst-Irmer

Adducts of Cp_3Ln with $\text{LGa}(\text{Me})\text{OH}$, Syntheses and X-ray Crystal Structures of $\text{LGa}(\text{Me})\text{HO} \rightarrow \text{LnCp}_3$ {Ln = Sm, Nd, Yb; L = $\text{HC}[\text{C}(\text{Me})\text{N}(2,6\text{-iPr}_2\text{C}_6\text{H}_3)_2]$ }

Keywords: Adducts / Hydroxides / Gallium / Heterodimetallic compounds / Lanthanides

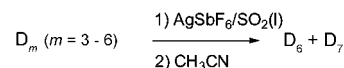
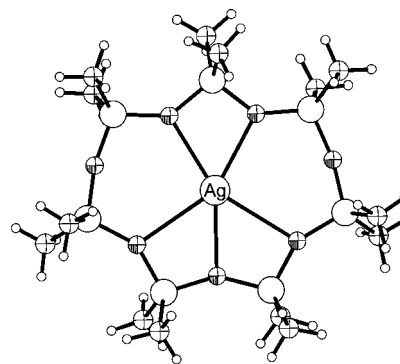


4033 A. Decken, F. A. LeBlanc, J. Passmore,*
X. Wang



Cyclodimethylsiloxane (Me_2SiO)_m ($m = 3-6$)
Ring Transformations on Reactions with
 AgSbF_6 ; Crystal Structure of $\text{Ag}(\text{Me}_2\text{SiO})_7\text{SbF}_6$

Keywords: Cyclodimethylsiloxane / Host–guest systems / Silver / Silicon ethers / Ring transformation / Hexafluoroantimonate

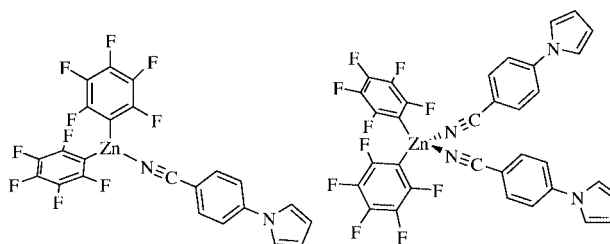


4037 E. Martin, D. L. Hughes, S. J. Lancaster*



The Remarkable Solvent-Dependent Crystallization of the Mono- and Bis(4-pyrrol-1-ylbenzoni-
trile) Adducts of Bis(pentafluorophenyl)zinc

Keywords: Crystal structure / Zinc / Pentafluorophenyl group / Nitrile adduct / Intermolecular interaction / Arene coordination



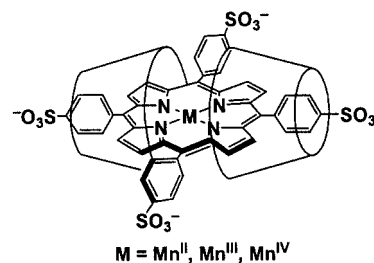
FULL PAPERS

4043 K. Kano,* H. Kitagishi, Y. Sone,
N. Nakazawa, M. Kodera



Redox Behavior of a Manganese Porphyrin
Complexed with Per-*O*-methylated β -Cyclodextrin in Aqueous Solution

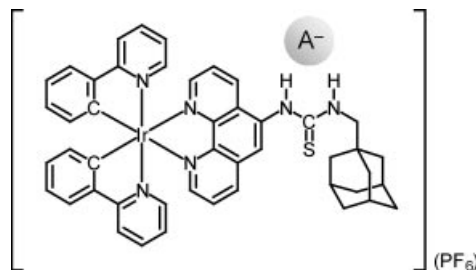
Keywords: Macrocyclic ligands / Manganese / Redox chemistry / Cyclodextrins / Electrochemistry



4054 K. K.-W. Lo,* J. S.-Y. Lau, D. K.-K. Lo,
L. T.-L. Lo

Luminescent, Cyclometalated Iridium(III) Polypyridine Complexes Containing a Thiourea
Moiety: Synthesis, Characterization, Photo-
physics, Electrochemistry and Anion-Binding
Properties

Keywords: Fluorescence spectroscopy / Iridium / Luminescence / N ligands / Sensors

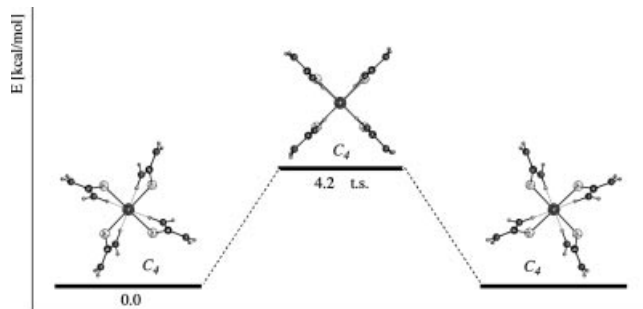


4063

R. Puchta, R. Meier,
N. J. R. van Eikema Hommes, R. van Eldik*

Quantum Chemical Analysis of the Enantio-
merisation Mechanism of Complexes of the
Type $[M^{II}(XU)_4]F^+$ ($M = Pt, Pd, Ni$; $X = S, Se$,
Te; $U = \text{urea}$)

Keywords: Enantiomers / Density functional calcula-
tions / Metal complexes

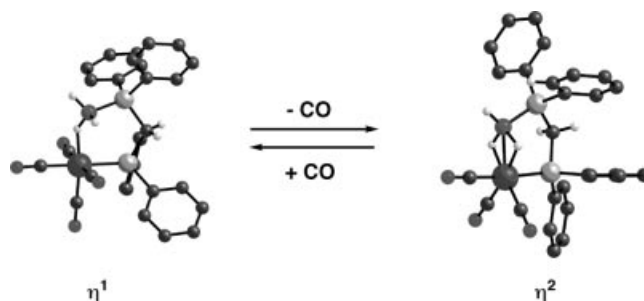


4068

N. Merle, C. G. Frost, G. Kociok-Köhn,
M. C. Willis, A. S. Weller*

Chelating Phosphane–Boranes as Hemilabile
Ligands – Synthesis of $[Mn(CO)_3(\eta^2-H_3B\cdot dppm)][BAr^F_4]$ and $[Mn(CO)_4(\eta^1-H_3B\cdot dppm)][BAr^F_4]$

Keywords: Boranes / Catalysis / Hemilabile ligands /
Manganese / Phosphanes

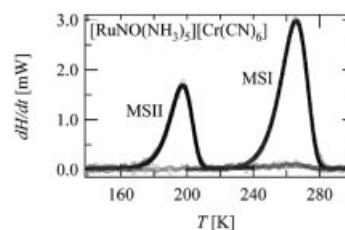


4074

L. A. Kushch,* L. S. Kurochkina,
E. B. Yagubskii, G. V. Shilov,
S. M. Aldoshin, V. A. Emel'yanov,
Y. N. Shvachko, V. S. Mironov, D. Schaniel,
T. Woike, C. Carbonera, C. Mathonière

Bifunctional Materials Based on the Photo-
chromic Cation $[RuNO(NH_3)_5]^{3+}$ with Parama-
gnetic Metal Complex Anions

Keywords: Photochromism / Magnetic properties /
Mononitrosyl ruthenium complexes / Para-
magnetic metal complexes



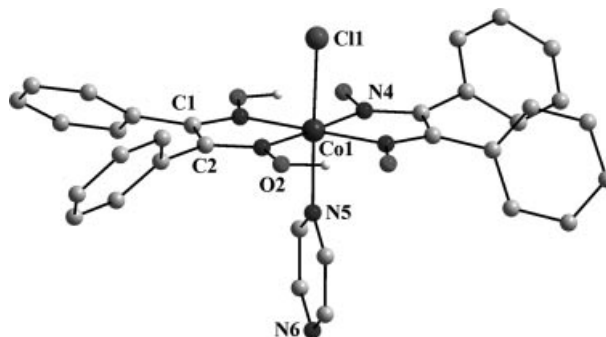
4086

D. Mandal, B. D. Gupta*



Cobaloximes with Pyrazine and Their Dimetal-
lic Complexes

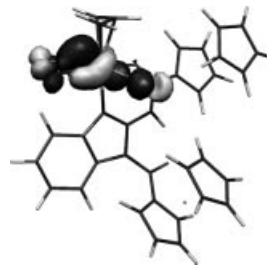
Keywords: Cobaloximes / Cyclic voltammetry / X-ray
structure / Helical structures



- 4096** P. N. Martinho, S. Quintal, P. J. Costa, S. Losi, V. Félix, M. C. Gimeno, A. Laguna, M. G. B. Drew, P. Zanello, M. J. Calhorda*

New Polynuclear Mo–Fe Complexes with Ferrocenylamidobenzimidazole Ligands

Keywords: Mo^{II} complexes / Ferrocenyl ligands / Polynuclear complexes / DFT calculations / Electrochemistry

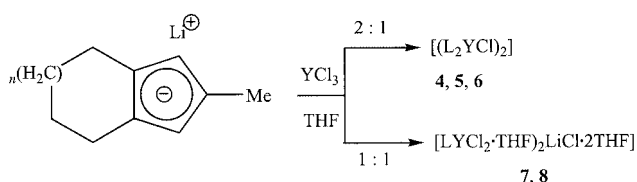


- 4104** G. Paolucci,* M. Vignola, A. Zanella, V. Bertolasi, E. Polo,* S. Sostero

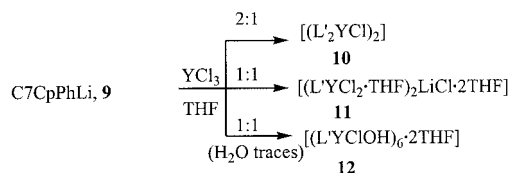


Substituted Ring-Fused Yttrium Derivatives – X-ray Crystal Structures of [(L'YCl₂·THF)₂LiCl·2THF] and [{L'YCl(OH)}₆·2THF] (L' = 2-Phenyl-4,5,6,7,8-hexahydroazulenyl)

Keywords: Yttrium / Fused-ring systems / Olefin polymerization



$n = 1$ C6CpMeLi, 1
 $n = 2$ C7CpMeLi, 2
 $n = 3$ C8CpMeLi, 3

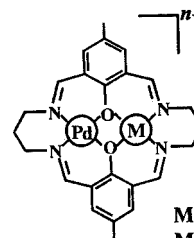


- 4111** B. Dutta, B. Adhikary, U. Flörke, K. Nag*



Controlled Synthesis of 3d–4d Heterobimetallic Complexes of a Symmetrical Tetraaminodiphenolate Macrocycle – Structural, Spectroscopic, and Redox Properties

Keywords: Heterobimetallic complexes / Macrocyclic complexes / Palladium / Rhodium / 3d metals(II)



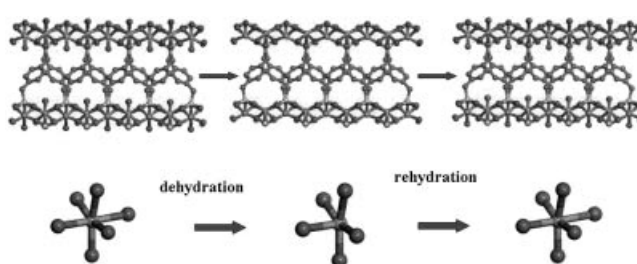
$M^{II} = \text{Pd, Zn, Cu, Ni, Co, Fe, Mn}$
 $M^{III} = \text{Rh}$

- 4123** H. Li, G.-S. Zhu,* X.-D. Guo, F.-X. Sun, H. Ren, Y. Chen, S.-L. Qiu*



Synthesis, Structure, and Magnetism of a Highly Thermally Stable Microporous Metal Organodiphosphonate with Reversible Dehydration/Rehydration Behavior

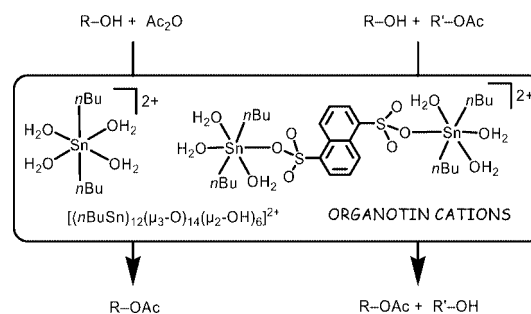
Keywords: Organic–inorganic hybrid composites / Organophosphonates / Thermal stability / Dehydration/rehydration behavior / Microporous materials



- 4129** V. Chandrasekhar,* R. Boomishankar,
K. Gopal, P. Sasikumar, P. Singh, A. Steiner,
S. Zacchini

Synthesis, Structure and Reactivity of Hydrated and Dehydrated Organotin Cations

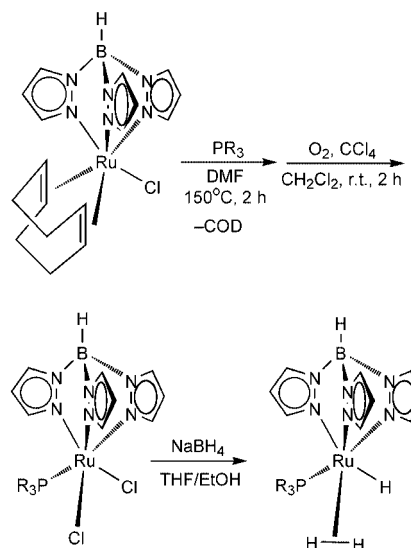
Keywords: Organotin cations / Organooxotin / Organostannoxane / Acetylation / Trans-acetylation



- 4137** S. Pavlik, M. Puchberger, K. Mereiter,
K. Kirchner*

Synthesis and Reactivity of the Ru^{III} Complexes [RuTp(PR₃)Cl₂] – Precursors for RuTp Dihydrogen Complexes

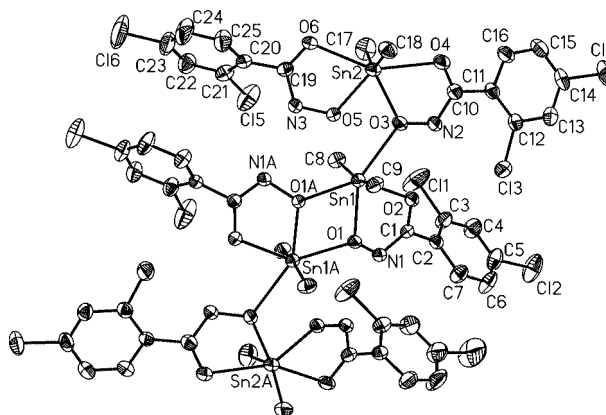
Keywords: Ruthenium / N ligands / Dihydrogen complexes



- 4143** X.-M. Shang, J.-Z. Wu,* Q.-S. Li*

New Coordination Modes of Substituted Benzo-hydroxamic Acid with Dialkyltin(IV): Structural Diversity through Ligand Isomerization

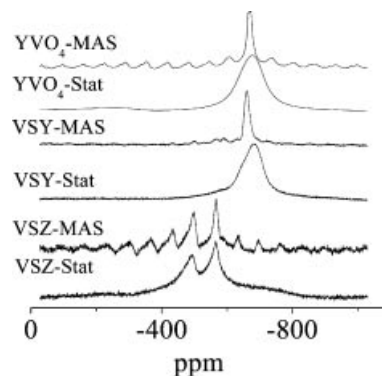
Keywords: Coordination modes / Organotin / Hydroxamic / Hydroximic / Isomerization



4151 R. Sasikala,* V. Sudarsan,
S. K. Kulshreshtha

Studies on the Interaction of Vanadia with Modified Silica Supports and Catalytic Activity for Oxidative Dehydrogenation of Propane: Effect of Support Modification by Al^{3+} , Zr^{4+} or Y^{3+}

Keywords: Supported catalysts / Vanadia-support interaction / IR spectroscopy / Heterogeneous catalysis

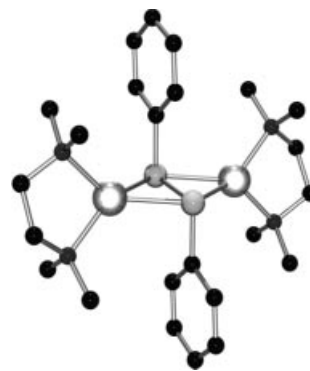


4157 D. Stein, A. Dransfeld, M. Flock,
H. Rügger, H. Grützmacher*



Lithium Oligophosphanediides in the Li/PhPCl₂ System

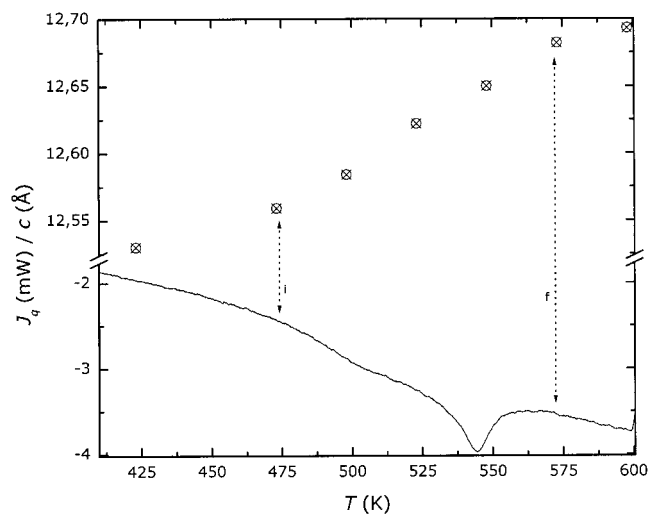
Keywords: Alkali metals / Dianions / Ion pairs / NMR spectroscopy / Phosphorus / Reduction



4168 M. Velázquez,* A. Ferrier, O. Pérez,
S. Péchev, P. Gravereau, J.-P. Chaminade,
R. Moncorgé

A Cationic Order-Disorder Phase Transition in KPb_2Cl_5

Keywords: Halides / Solid-state structures / Structure elucidation / Phase transitions / Thermodynamics

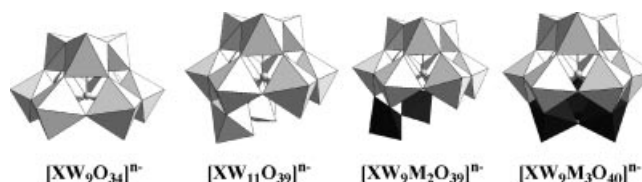


4179 W. Guan, G.-C. Yang, L.-K. Yan, Z.-M. Su*



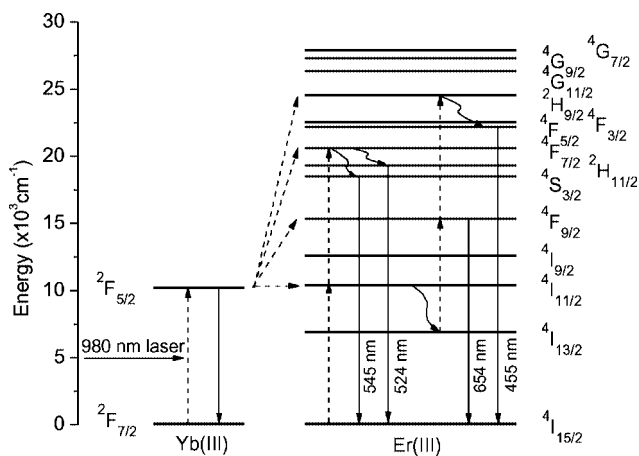
How Do the Different Defect Structures and Element Substitutions Affect the Nonlinear Optical Properties of Lacunary Keggin Polyoxometalates? A DFT Study

Keywords: Polyoxometalates / Nonlinear optics / Lacunary species / Tungsten / Density functional theory



Assembly and Upconversion Properties of Lanthanide Coordination Polymers Based on Hexanuclear Building Blocks with (μ_3 -OH) Bridges

Keywords: Hydroxido clusters / Lanthanide coordination polymers / Codoped complexes / Upconversion properties



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