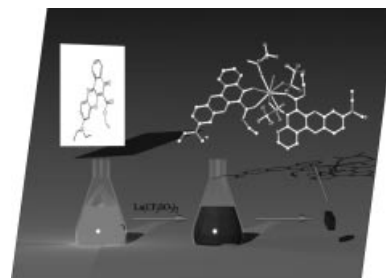


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COVER PICTURE

The cover picture shows that addition of lanthanum(III) triflate to the red solution of a fluorescent “Nile Red” derivative results in a bathochromic shift of the intense charge-transfer band due to the formation of a chelate lanthanum(III) complex, as shown by a structure determination of crystals isolated from the resulting blue solution. details are discussed in the Short Communication by A. Døssing et al. on p. 43ff.



MICROREVIEW

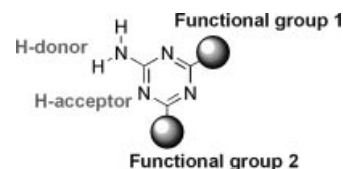
Contents

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P. Gamez,* J. Reedijk*

1,3,5-Triazine-Based Synthons in Supramolecular Chemistry

Keywords: Supramolecular chemistry / Self-assembly /
 Crystal engineering / N ligands / Cyanuric
 chloride / 1,3,5-Triazine

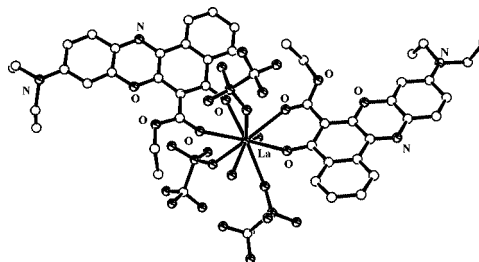


SHORT COMMUNICATIONS

43 A. Døssing,* M. Magnussen, A. M. Frey

Crystal Structure and Optical Properties of a Lanthanum(III) Complex of the Solvatochromic Dye “Nile Red”

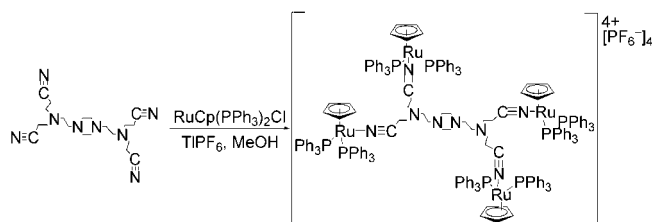
Keywords: Lanthanum / Heterocycles / N,O ligands / Chelates



47 C. Ornelas, V. Vertlib, J. Rodrigues,*
K. Rissanen*

Ruthenium Metallo dendrimers Based on Nitrile-Functionalized Poly(alkylidene imine)s

Keywords: Ruthenium / Dendrimers / N ligands / Sandwich complexes

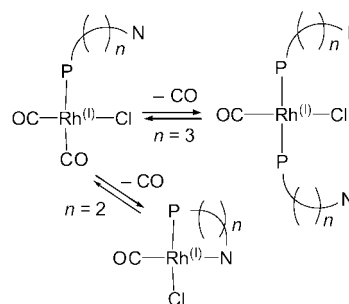


FULL PAPERS

51 J. Andrieu,* J.-M. Camus, P. Richard,
R. Poli, L. Gonsalvi, F. Vizza, M. Peruzzini*

Amino-phosphanes in Rh^I-Catalyzed Hydroformylation: Hemilabile Behavior of P,N Ligands under High CO Pressure and Catalytic Properties

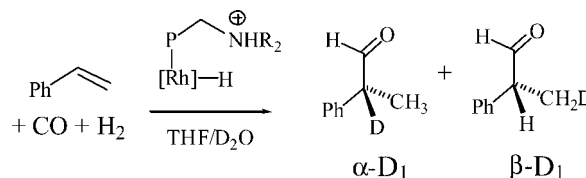
Keywords: Rhodium / Amino-phosphane ligands / Hemilability / Hydroformylation catalysis



62 J. Andrieu,* J.-M. Camus, C. Balan,
R. Poli*

Amino-phosphanes in Rh^I-Catalyzed Hydroformylation: New Mechanistic Insights Using D₂O as Deuterium-Labeling Agent

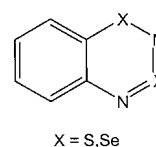
Keywords: Rhodium / Amino-phosphane ligands / H/D isotopic exchange / Hydroformylation catalysis / Enantioselectivity



69 J. Oláh, F. Blockhuys, T. Veszprémi,
C. Van Alsenoy*

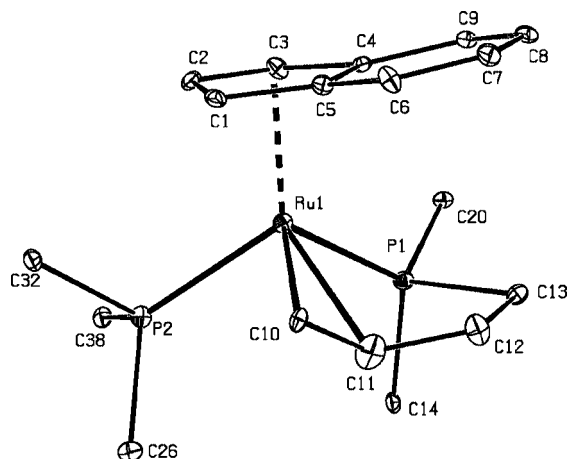
On the Usefulness of Bond Orders and Overlap Populations to Chalcogen–Nitrogen Systems

Keywords: Bond order / Overlap population / Hirshfeld partitioning / Chalcogen–nitrogen systems / Bonding



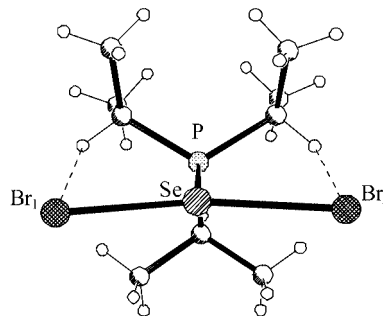
Synthesis of New Half-Sandwich Ruthenium(II) Complexes Bearing Alkenyl- and Alkynylphosphane Ligands

Keywords: Indenyl complexes / Phosphane ligands / Ruthenium / Sandwich complexes



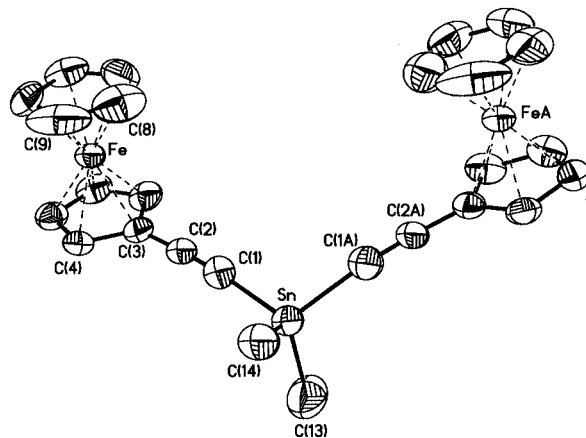
The Bromination of Bulky Trialkylphosphane Selenides $R_2R'PSe$ ($R, R' = iPr$ and/or tBu) Studied by Physical and Computational Methods

Keywords: Phosphane selenide dibromides / Heteronuclear NMR / Raman spectroscopy / X-ray structures / Bromine exchange / Ab initio calculations



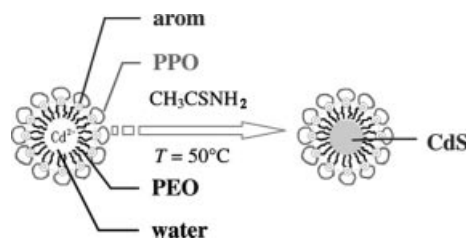
Ferrocenylethynyltin Compounds – Characterization and Reactivity towards Triethylborane

Keywords: Alkynes / Boranes / Ferrocenes / NMR spectroscopy / Tin



Synthesis of Monodisperse CdS Nanospheres in an Inverse Microemulsion System Formed with a Dendritic Polyether Copolymer

Keywords: Monodisperse nanopheres / Semiconductors / Dendrimers / X-ray diffraction / Microemulsion



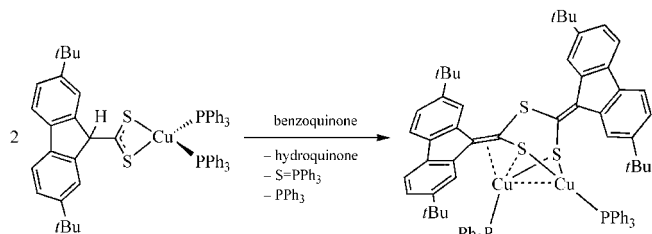
115

J. Vicente, P. González-Herrero,*
Y. García-Sánchez, P. G. Jones, D. Bautista



Copper Complexes with (2,7-Di-*tert*-butylfluoren-9-ylidene)methanedithiolate: Oxidatively Promoted Dithioate Condensation

Keywords: Copper / Dithiolates / Phosphane ligands / S ligands

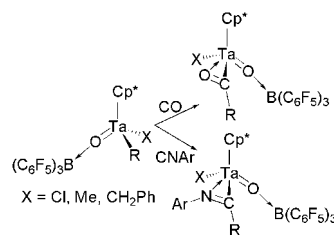


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J. Sánchez-Nieves, P. Royo,*
M. E. G. Mosquera

η^2 -Iminoacyl and η^2 -Acyl Monocyclopentadienyl Tantalum Complexes Bearing Oxo and Oxo-Borane Ligands

Keywords: Tantalum / Oxo ligands / Insertion reactions / Isocyanide / Carbon monoxide

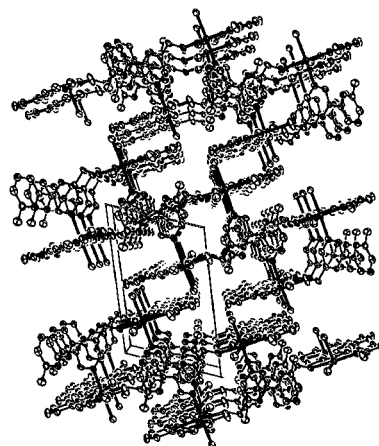


133

J. Mathieu, B. Fraisse, D. Lacour,
N. Ghermani, F. Montaigne, A. Marsura*

An Original Supramolecular Helicate from a Bipyridine–Bipyrazine Ligand Strand and Ni^{II} by Self-Assembly

Keywords: Magnetic properties / N ligands / Nickel / Self assembly / Supramolecular chemistry

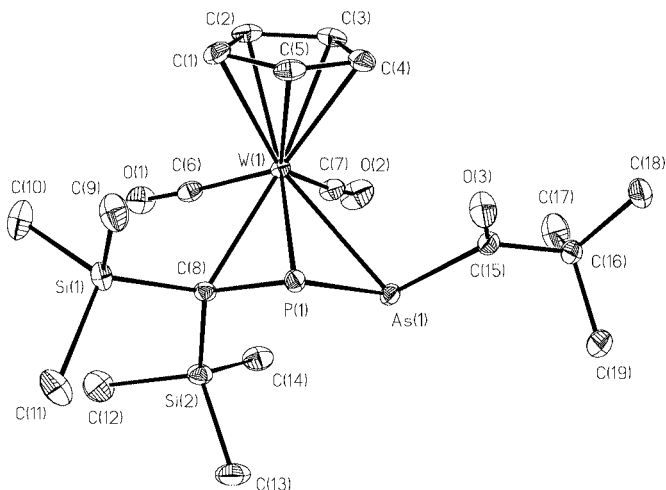


137

L. Weber,* P. Bayer, S. Uthmann, T. Braun,
H.-G. Stammer, B. Neumann

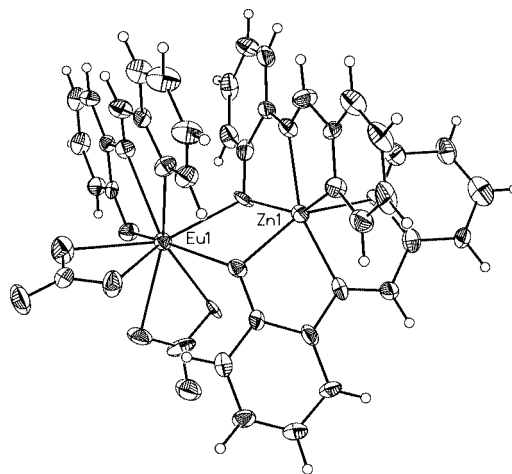
Reactivity of the Inversely Polarized Arsaalkenes $R-As=C(NMe_2)_2$ { $R = [(\eta^5-C_5Me_5)(CO)_2Fe]$, $tBuC(O)$, $4-Et-C_6H_4C(O)$ } towards Phosphavinylidene Complexes $[\eta^5-(C_5H_5)(CO)_2M=P=C-(SiMe_3)_2]$ ($M = Mo, W$)

Keywords: Arsaalkenes / Heteroallyl ligands / Molybdenum / Phosphavinylidene complexes / Tungsten



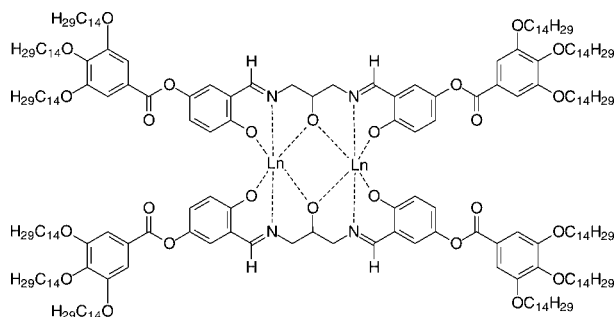
Self-Assembly and Characterization of Homo- and Heterodinuclear Complexes of Zinc(II) and Lanthanide(III) Ions with a Tridentate Schiff-Base Ligand

Keywords: Dinuclear complexes / Lanthanides / Tridentate Schiff-base ligand / Self-assembly / Zinc



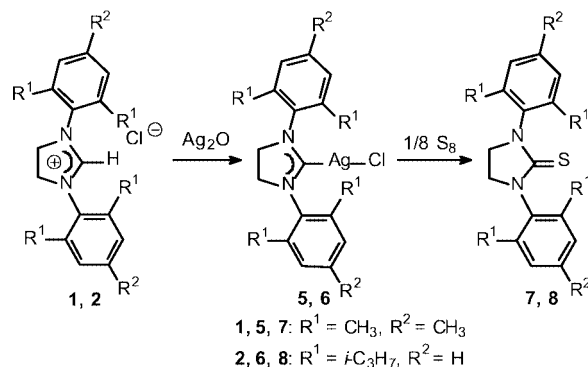
Dinuclear Lanthanide Schiff-Base Complexes Forming a Rectangular Columnar Mesophase

Keywords: Columnar mesophases / Lanthanides / Liquid crystals / Metallomesogens / Rare earths



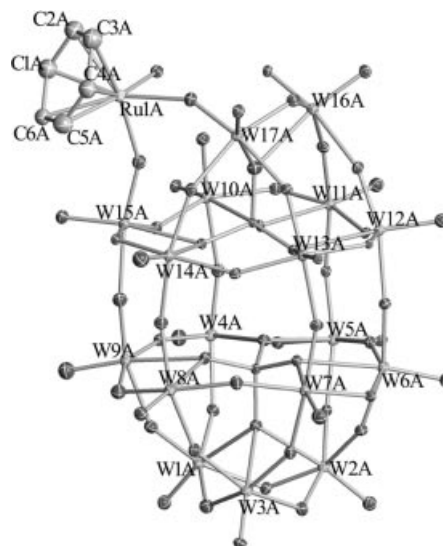
Silver and Rhodium Complexes of Stable, Monomeric Imidazolidin-2-ylidenes: Synthesis, Reactivity and Decomposition Pathway

Keywords: Carbenes / Carbene ligands / Nitrogen heterocycles / Silver / Sulfur



Synthesis and Characterization of Two Novel, Mono-Lacunary Dawson Polyoxometalate-Based, Water-Soluble Organometallic Ruthenium(II) Complexes: Molecular Structure of $[(\text{C}_6\text{H}_6)\text{Ru}(\text{H}_2\text{O})\{\alpha_2\text{-P}_2\text{W}_{17}\text{O}_{61}\}]^{8-}$

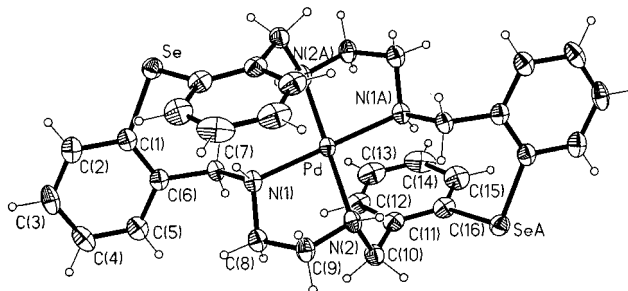
Keywords: Arene ligands / Polyoxometalates / Ruthenium / X-ray diffraction



172 S. Panda, S. S. Zade, H. B. Singh,*
R. J. Butcher

The Ligation Properties of some Reduced Schiff Base Seleno/Telluraaza Macrocycles: Versatile Structural Trends

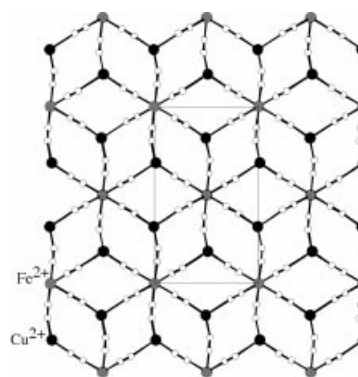
Keywords: Chalcogenaaza macrocycles / Selenium tellurium ligands / Nickel / Palladium / Platinum



185 S. Triki,* J. Sala-Pala, F. Th  tiot,
C. J. G  mez-Garc  a, J.-C. Daran

New, Multi-Dimensional Cu(tn)-[M(CN)₆]ⁿ⁻ Cyano-Bridged, Bimetallic Coordination Materials (M = Fe^{II}, Co^{III}, Cr^{III} and tn = 1,3-Diaminopropane)

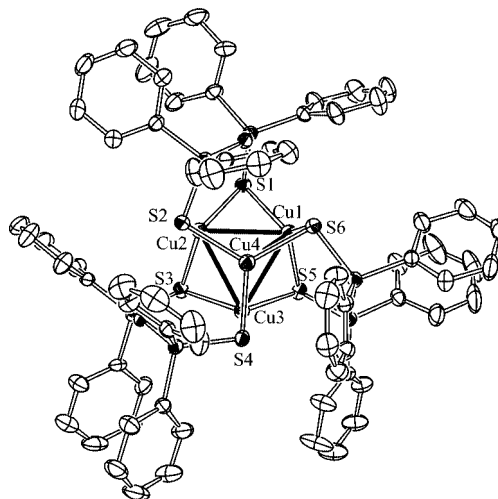
Keywords: Bridging ligands / Cyanides / Heterometallic complexes / Magnetic properties



200 M. C. Aragoni, M. Arca, M. B. Carrea,
F. Demartin, F. A. Devillanova, A. Garau,
M. B. Hursthouse, S. L. Huth, F. Isaia,*
V. Lippolis, H. R. Ogilvie, G. Verani

Copper(I) Complexes with a Cu₄S₆- and CuS₄-Type Core Obtained from the Reaction of Copper(0) with HN(SPh)₂·I₂

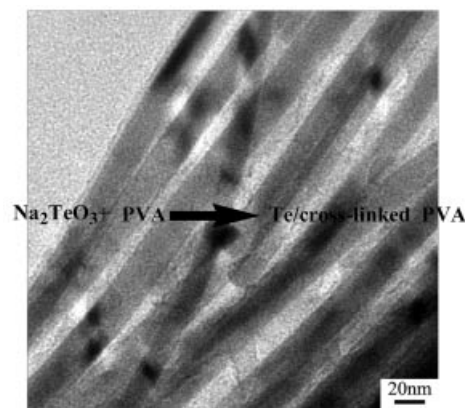
Keywords: Cluster compounds / Copper / Coordination chemistry / Phosphanes / S ligands



207 S. Xiong, L. Fei, Z. Wang, H. Y. Zhou,
W. Wang, Y. Qian*

Preparation of Semiconductor/Polymer Coaxial Nanocables by a Facile Solution Process

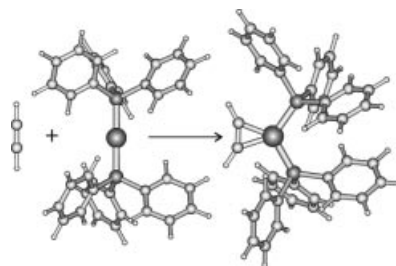
Keywords: Hydrothermal synthesis / Nanostructures / Photoluminescence / Semiconductors / Tellurium



213 M. Piacenza, J. Rakow, I. Hyla-Kryspin,*
S. Grimme*

Theoretical Study of the Effects of Phosphane Substituents on the Bonding Properties of Acetylene with $\text{Ni}(\text{PR}_3)_2$ ($\text{R} = \text{H}, \text{CH}_3, \text{F}, \text{CF}_3, \text{C}_6\text{H}_5$)

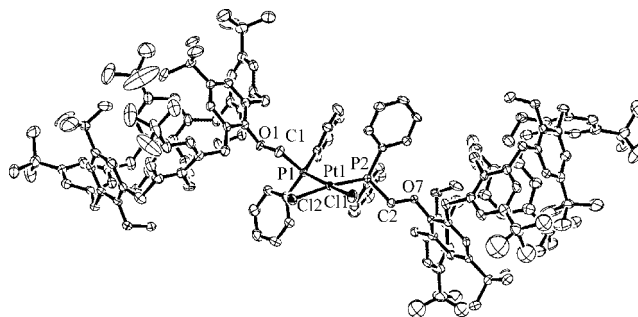
Keywords: Alkyne ligands / Density functional calculations / Nickel / Phosphane ligands



222 Y. Obora, Y. K. Liu, S. Kubouchi,
M. Tokunaga, Y. Tsuji*

Monophosphanylcalix[6]arene Ligands: Synthesis Characterization, Complexation, and Their Use in Catalysis

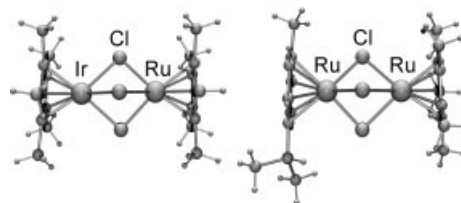
Keywords: Calixarenes / Heterogeneous catalysis / Phosphanes / Platinum / Rhodium



231 L. Quebatte, R. Scopelliti, K. Severin*

Synthesis, Structure and Reactivity of Homo- and Heterobimetallic Complexes of the General Formula $[\text{Cp}^*\text{Ru}(\mu\text{-Cl})_3\text{ML}]$ [$\text{LM} = (\text{arene})\text{Ru}, \text{Cp}^*\text{Rh}, \text{Cp}^*\text{Ir}$]

Keywords: Heterometallic complexes / Iridium / Rhodium / Ruthenium

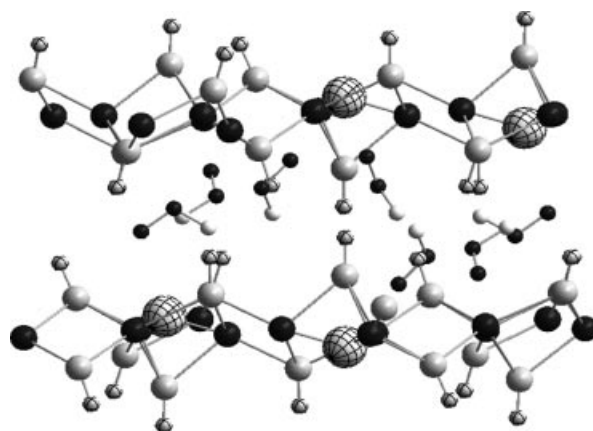


237 L. Lakiss, A. Simon-Masseron, F. Porcher,
J. Patarin*



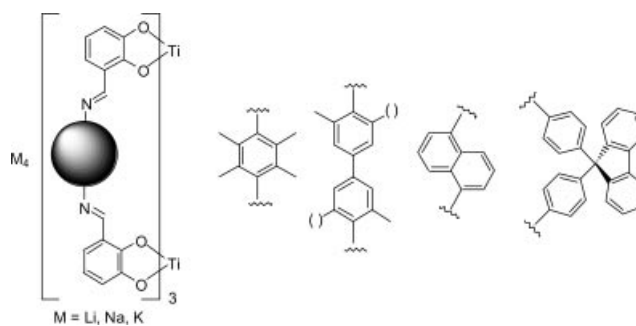
Mu-34: a New Porous Layered Fluorogallophosphate Material Obtained by in Situ Generation of Ethylamine

Keywords: Fluorogallophosphate / Ethylformamide / Solvothermal synthesis / Ethylamine / Porous layered solids / Microporous materials



Formation of Triple-Stranded Dinuclear Helicates with Dicatecholimine Ligands: The Influence of Steric Hindrance at the Spacer

Keywords: Dinuclear complexes / Helicates / Meso-helicates / Self-assembly / Titanium / Bulky ligands



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