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COVER PICTURE

The cover picture shows the hexagonal 2:4 coordination complex formed between 1,3-bis(3'-pyridylethynyl)benzene and copper(II) acetate. The ligand, synthesized by the Sonagashira coupling of 1,3-ethynylbenzene with 3-bromopyridine, was designed to form hexagonal coordination complexes with metals that favor linear coordination geometry. In this example the dimeric copper(II) acetate paddlewheel forms an almost linear connection between a pair of dipyrindyl ligands. Details are discussed in the Short Communication by E. Bosch et al. on p. 45ff.



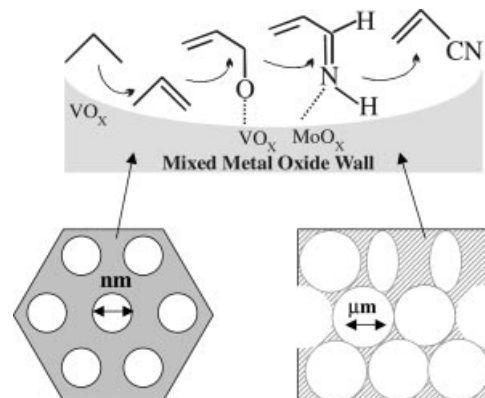
MICROREVIEW

Contents

27 M. A. Carreon, V. Gulianti*

Ordered Meso- and Macroporous Binary and Mixed Metal Oxides

Keywords: Mesoporous / Macroporous / Transition metal oxides / Catalytic applications

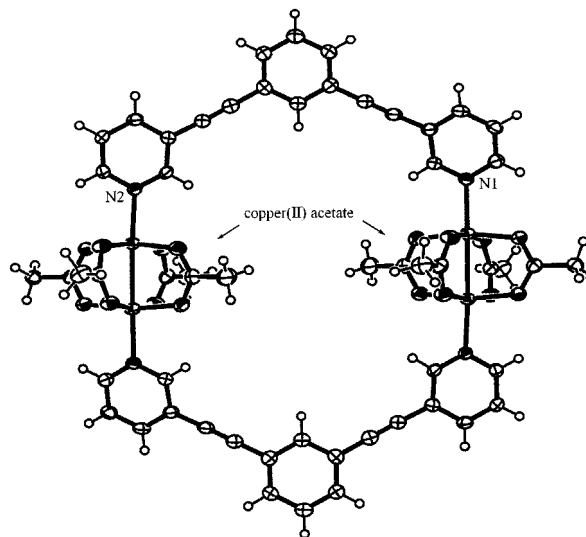


SHORT COMMUNICATIONS

- 45 N. Schultheiss, J. M. Ellsworth, E. Bosch,*
C. L. Barnes

Formation of Hexagonal Coordination Complexes

Keywords: Crystal engineering / N ligands / Metallacycles / Microporous materials

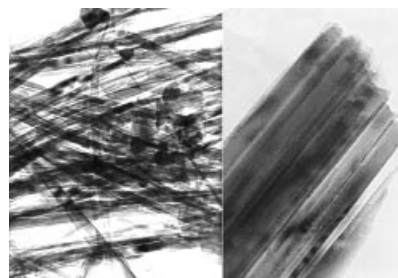


- 47 H. Zhang, S. Zhang,* M. Zuo, G. Li, J. Hou



Synthesis of ZnS Nanowires and Assemblies by Carbothermal Chemical Vapor Deposition and Their Photoluminescence

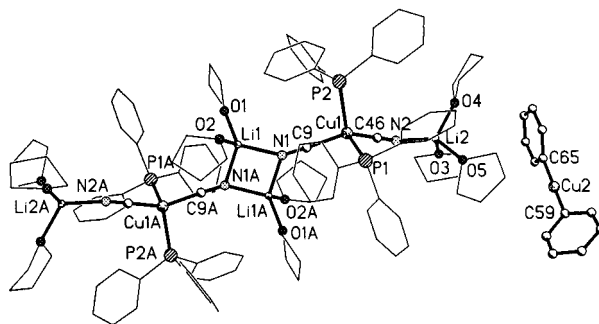
Keywords: Chemical vapor deposition / Luminescence / Nanostructures / Self-assembly / Zinc



- 51 R. P. Davies,* S. Hornauer

Lithium Cyanocuprates: Structural Studies of a Phosphane Adduct of a “Lower-Order” Lithium Cyanocuprate

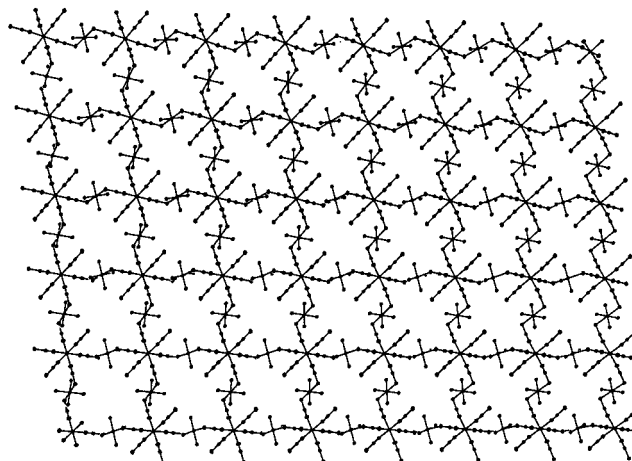
Keywords: Cuprates / Lithium / Reaction intermediates / Michael addition



- 55 J.-M. Shi,* W. Xu, B. Zhao, P. Cheng,
D.-Z. Liao, X.-Y. Chen

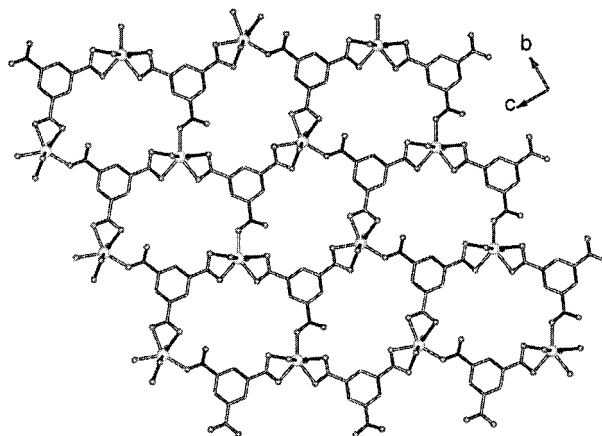
A 2D Thiocyanato-Bridged Copper(II)-Manganese(II) Bimetallic Coordination Polymer with Ferromagnetic Interactions

Keywords: Structure elucidation / Magnetic properties / Bridging ligands / Manganese



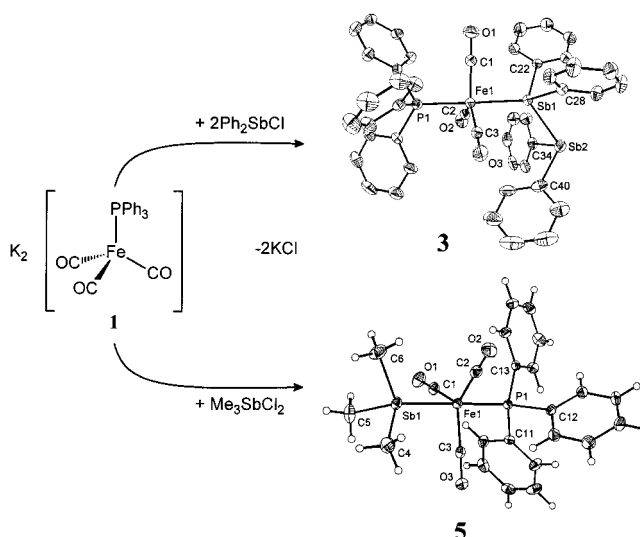
Two Novel Inorganic–Organic Hybrid Frameworks Based on In^{III} -BTC and In^{III} -BTEC

Keywords: Indium(III) / Benzenemulticarboxylate



Reactions of $\text{K}_2[\text{Fe}(\text{CO})_3(\text{PPh}_3)]$: Reductive Sb–Sb Coupling with Ph_2SbCl To Form *trans*- $[\text{Fe}(\text{CO})_3(\text{PPh}_3)(\text{Sb}_2\text{Ph}_4)]$ and Salt Metathesis with Me_3SbCl_2 To Yield *trans*- $[\text{Fe}(\text{CO})_3(\text{PPh}_3)(\text{SbMe}_3)]$

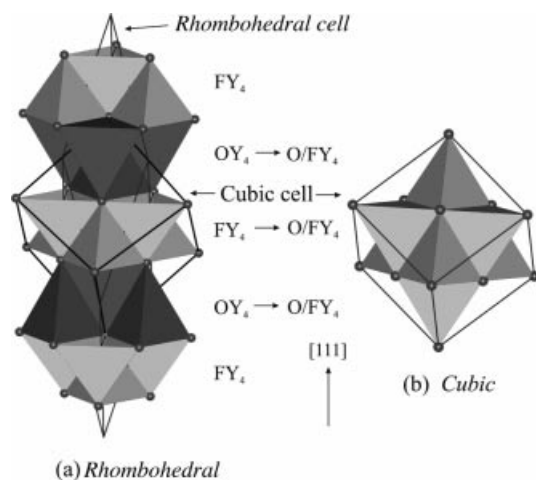
Keywords: Antimony / Coupling reactions / Iron / Metathesis



FULL PAPERS

Nonquenchable Chemical Order–Disorder Phase Transition in Yttrium Oxyfluoride

Keywords: Phase transitions / Yttrium / X-ray diffraction / Order–disorder transitions

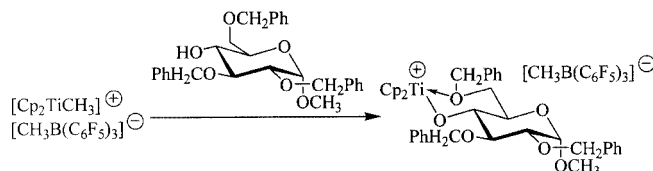


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B. Meyer zu Berstenhorst, G. Erker,*
G. Kehr, J.-C. Wasilke, J. Müller,
H. Redlich, J. Pyplo-Schnieders



Bioorganometallic Chemistry: Reactions of Methyltitanocene Cation Complexes with a Singly Deprotected Methyl Glucopyranoside

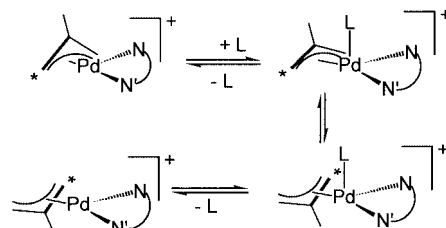


Keywords: Carbohydrate complexes / Titanocene / Zirconocene / Lewis acid / Chelate complexes / Bioorganometallic chemistry

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F. A. Jalón, B. R. Manzano,*
B. Moreno-Lara

Apparent Allyl Rotation and Pd–N Bond Rupture in Allylpalladium Complexes with N-Donor Ligands – Evidence of an Associative Mechanism

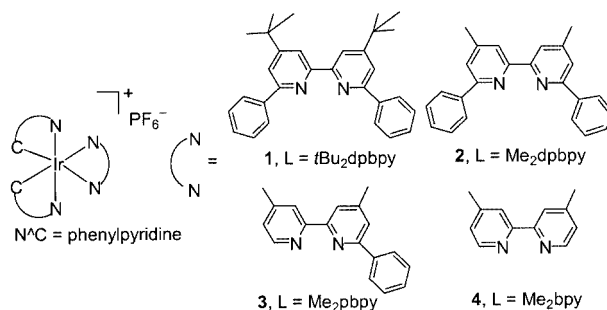


Keywords: Allyl ligands / Fluxionality / N ligands / Palladium

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M. Lepeltier, T. Kwon-Ming Lee,
K. Kam-Wing Lo,* L. Toupet, H. Le Bozec,
V. Guerschais*

Synthesis, Structure, and Photophysical and Electrochemical Properties of Cyclometallated Iridium(III) Complexes with Phenylated Bipyridine Ligands



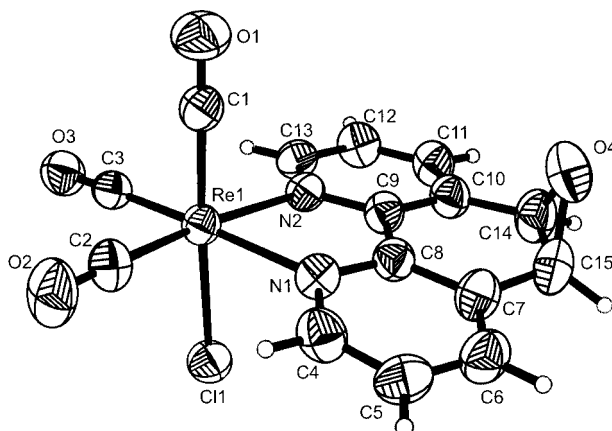
Keywords: Electrochemistry / Iridium / N ligands / Photochemistry

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A. A. Martí, G. Mezei, L. Maldonado,
G. Paraltici, R. G. Raptis, J. L. Colón*



Structural and Photophysical Characterisation of *fac*-[Tricarbonyl(chloro)(5,6-epoxy-1,10-phenanthroline)rhenium(I)]



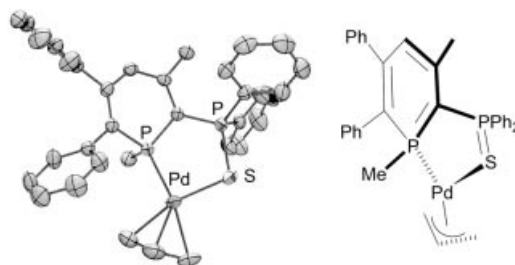
Keywords: Carbonyl ligands / Coincidental resonances / Facial isomers / Energy gap law / Rhenium

**125 M. Dochnahl, M. Doux, E. Faillard,
L. Ricard, P. Le Floch***



A New Mixed P,S-Bidentate Ligand Featuring a λ^4 -Phosphinine Anion and a Phosphanyl Sulfide Group – Synthesis, X-ray Crystal Structures and Catalytic Properties of Its Chloro(cyrene)ruthenium and Allylpalladium Complexes

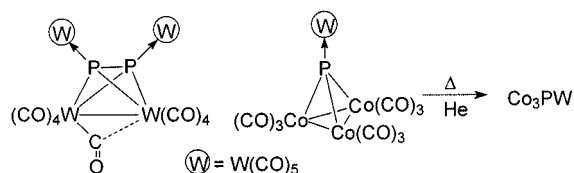
Keywords: Density functional calculations / Homogeneous catalysis / P ligands / Ruthenium / Palladium / S ligands



**135 M. Scheer,* U. Vogel, U. Becker, G. Balazs,
P. Scheer, W. Hönl, M. Becker, M. Jansen**

Synthesis and Characterisation of Novel Complexes Containing Group 15 Elements and Their Potential Use as Molecular Precursors for the Formation of Transition Metal Pnictides

Keywords: Cobalt / Cluster compounds / Phosphorus / Thermochemistry / Tungsten

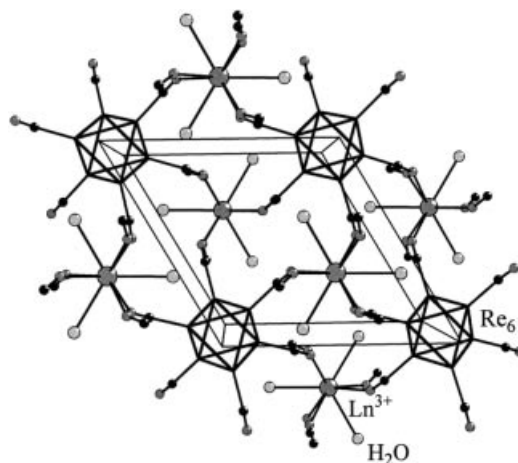


**142 S. B. Artemkina, N. G. Naumov,*
A. V. Virovets, V. E. Fedorov**



3D-Coordination Cluster Polymers $[\text{Ln}(\text{H}_2\text{O})_3\text{-Re}_6\text{Te}_8(\text{CN})_6]_n \cdot n\text{H}_2\text{O}$ ($\text{Ln} = \text{La}^{3+}, \text{Nd}^{3+}$): Direct Structural Analogy with the Mononuclear $\text{LnM}(\text{CN})_6 \cdot n\text{H}_2\text{O}$ Family

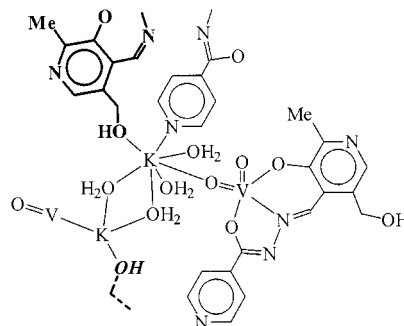
Keywords: Rhenium / Cluster compounds / Structure elucidation / Cyanide ligand / Lanthanides



**147 M. R. Maurya,* S. Agarwal, C. Bader,
D. Rehder***

Dioxovanadium(v) Complexes of ONO Donor Ligands Derived from Pyridoxal and Hydrazides: Models of Vanadate-Dependent Haloperoxidases

Keywords: Vanadium / Hydrazones / Catalytic bromination / Pyridoxal



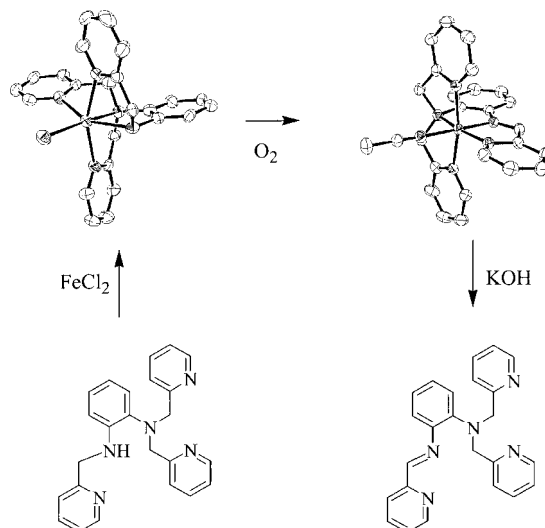
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A. Machkour, D. Mandon,* M. Lachkar, R. Welter



Oxidative Dehydrogenation of Secondary Amines: The Case of the *N,N,N'*-Tris(2-pyridylmethyl)-*o*-phenylenediamine Ligand when Coordinated to Iron Dichloride

Keywords: Ferrous complexes / Dioxygen activation / Oxidative dehydrogenation

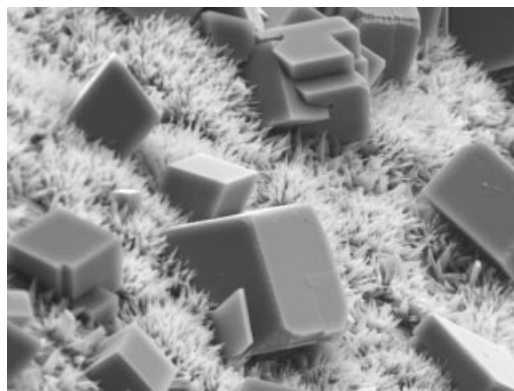


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G. Falini,* S. Fermani, S. Vanzo, M. Miletic, G. Zaffino

Influence on the Formation of Aragonite or Vaterite by Otolith Macromolecules

Keywords: Biomineralization / Otoliths / Vaterite / Aragonite / Calcium carbonate / Polymorphism / Bioinorganic chemistry



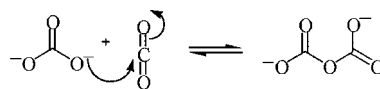
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K.-P. Zeller,* P. Schuler, P. Haiss



The Hidden Equilibrium in Aqueous Sodium Carbonate Solutions – Evidence for the Formation of the Dicarbonate Anion

Keywords: Dicarbonate anion / Isotopic labeling / NMR spectroscopy / Oxygen transfer

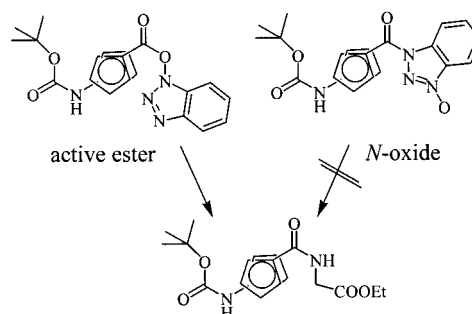


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K. A. Mahmoud, Y.-T. Long, G. Schatte, H.-B. Kraatz*

Rearrangement of the Active Ester Intermediate During HOBt/EDC Amide Coupling

Keywords: Ferrocene / Hydroxybenzotriazole / Amide coupling / Amino acid / Electrochemistry



- 181 G. Barberio, A. Bellusci, A. Crispini,
M. Ghedini, A. Golemme, P. Prus,
D. Pucci*

Columnar Mesomorphism in Hexacatenar
Tetrahedral (2,2'-Bipyridine)zinc Complexes and
Homologous Palladium Derivatives

Keywords: Bipyridine ligands / Zinc / Palladium /
Metallomesogens / Columnar structures

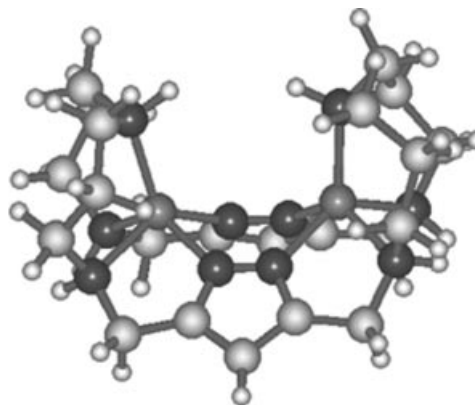


- 189 C. Miranda, F. Escartí, L. Lamarque,
E. García-España,* P. Navarro,* J. Latorre,
F. Lloret, H. R. Jiménez, M. J. R. Yunta



Cu^{II} and Zn^{II} Coordination Chemistry of
Pyrazole-Containing Polyamine Receptors –
Influence of the Hydrocarbon Side Chain
Length on the Metal Coordination

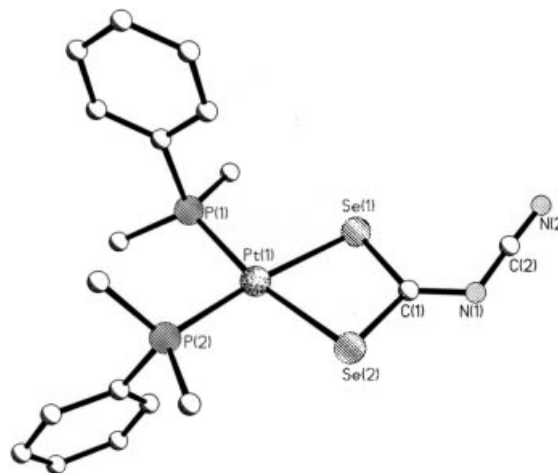
Keywords: Pyrazole macrocycles / Copper and zinc co-
ordination / Acid-base and metal formation
equilibria / Polyamine ligands / Paramag-
netic NMR



- 209 C. J. Burchell, S. M. Aucott,
A. M. Z. Slawin, J. D. Woollins*

Synthesis and Characterisation of the First
Cyanodiselenoimidocarbonate [C₂N₂Se₂]²⁻
Complexes

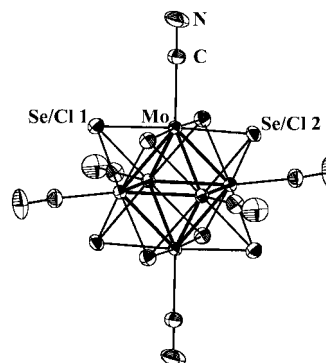
Keywords: Selenium / Platinum / Coordination modes



- 214 Y. V. Mironov, V. N. Ikorskii, V. E. Fedorov,
J. A. Ibers*

Octahedral Molybdenum Cluster Cyanide
Complexes with Selenide and Halide Ligands in
the Cluster Core

Keywords: Molybdenum / Clusters / Chalcogenide /
Cyanide / Solid-state structures



Spin-Coating Preparation of Highly Ordered
Photoluminescent Films of Layered PbI_2 -
Aminoalkyloxysilane Perovskites

Keywords: Layered perovskite / Sol-gel / Films /
Photoluminescence

