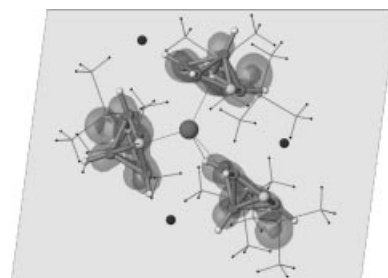


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COVER PICTURE

The cover picture shows a typical bent-sandwich *commo*-metallacarborane product as well as its starting *nido*-carborane precursor of the smaller carborane cage system, together in a novel cluster. Details are discussed in the Micro-review by N. S. Hosmane and J. A. Maguire on p. 3989 ff. The authors are indebted to their many students and co-workers who have borne the brunt of doing, and to the National Science Foundation, Alexander von Humboldt-Stiftung (to N. S. H.) and the R. A. Welch Foundation (to J. A. M.) for their generous support.



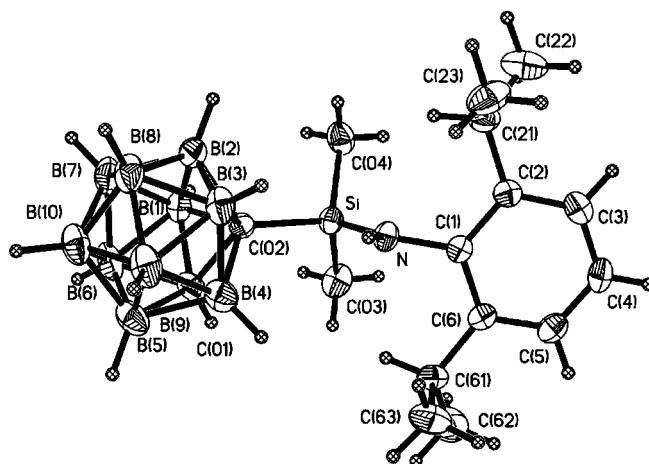
MICROREVIEW

Contents

3989 N. S. Hosmane,* J. A. Maguire

Recent Advances in the Chemistry of Metalla-carboranes

Keywords: Carboranes / Boranes / Lanthanides / *ansa* ligands / Sandwich complexes / Main group elements

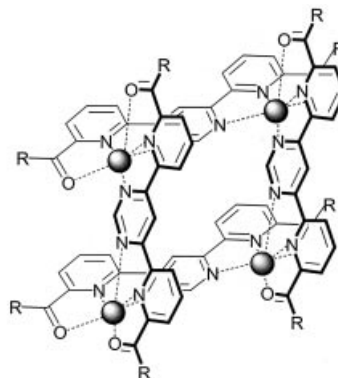


FULL PAPERS

- 4001** V. Patroniak, P. N. W. Baxter, J.-M. Lehn,*
M. Kubicki, M. Nissinen, K. Rissanen

Self-Assembly and Characterisation of Grid-Type Iron(II), Cobalt(II) and Zinc(II) Complexes

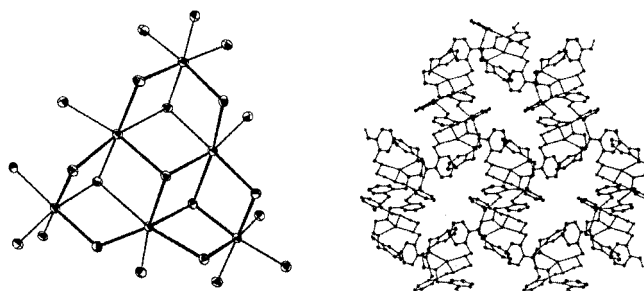
Keywords: Grid-type complexes / Iron / Cobalt / Zinc / Supramolecular chemistry / Self-assembly



- 4010** Y. Xie, Q. Liu,* H. Jiang, J. Ni

Novel Complexes of Ligands Containing Phenol and Alcohol Groups: From Polynuclear Cluster, 1D Coordination Polymer to 2D Supramolecular Assemblies

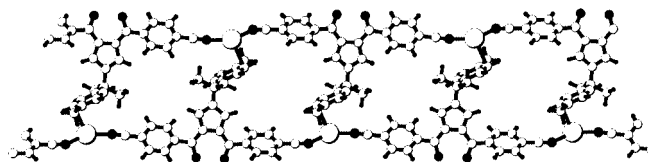
Keywords: Copper / Cobalt / Silver / Coordination polymers / N,O ligands



- 4017** Y.-B. Dong,* X. Zhao, G.-X. Jin,
R.-Q. Huang, M. D. Smith

New Ag^I Organometallic Coordination Polymers and M^{II} (M = Cu^{II} and Co^{II}) Inorganic Supramolecular Complexes Generated from New Fulvene-Type Ligands

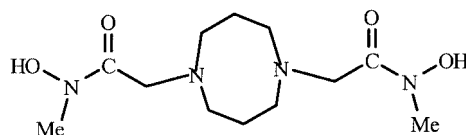
Keywords: Coordination polymers / Supramolecular chemistry / Silver / Cobalt / Copper



- 4025** M. Gaspar, J. P. Telo, M. A. Santos*

A New Diazacyclooctane Dihydroxamate as a Siderophore Analogue. Synthesis and Equilibrium Studies of Iron(III) and Copper(II) Complexes

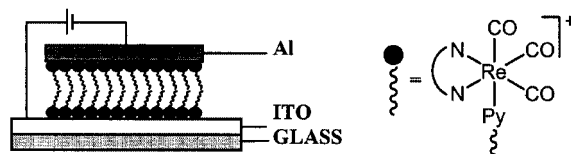
Keywords: Copper / Iron / Aminohydroxamates / Hydroxamic acids / Siderophores



- 4035** V. W.-W. Yam,* B. Li, Y. Yang,
B. W.-K. Chu, K. M.-C. Wong,
K.-K. Cheung

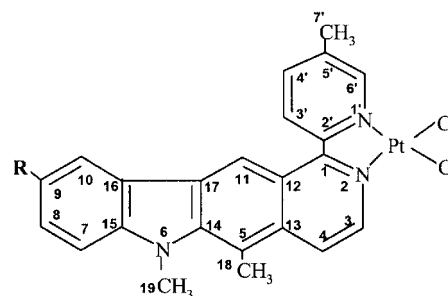
Preparation, Photo-luminescence and Electro-Luminescence Behavior of Langmuir–Blodgett Films of Bipyridylrhenium(I) Surfactant Complexes

Keywords: Luminescence / Surfactants / Langmuir–Blodgett films / Rhenium



4043 A. Romaniewska, R. Jaszold-Howorko,
A. Regiec, T. Lis, J. Kuduk-Jaworska*

Synthesis, Structure and Characterization of New Olivacine Derivatives and Their Platinum(II) Complexes

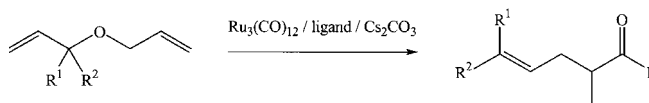


$R = -O-C(20)H_3, -OH, -OOC(21)-C(20)H_3$

Keywords: Antitumor agents / Template synthesis / Platinum / Structure elucidation / Conformational analysis

4055 H. B. Ammar, J. Le Nôtre, M. Salem,
M. T. Kaddachi, L. Toupet, J.-L. Renaud,
C. Bruneau, P. H. Dixneuf

New $[Ru_3(CO)_{12}]$ -Based Catalysts with Imidazolium Salt, Diimine, or Bis(oxazoline) Ligands and Ruthenium Bis(oxazoline) Complex for Tandem Isomerisation/Claisen Rearrangement of Dienyl Ethers – X-ray Structure of $[RuCl\{(R,R)\text{-bis(isopropylloxazoline)}\}(p\text{-cymene})]BF_4$

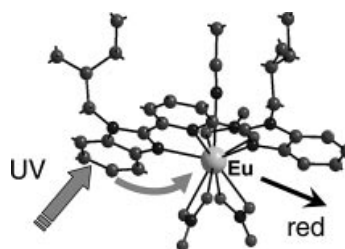


Keywords: Ruthenium / Isomerisation / Claisen reaction / Aldehydes / N ligands

4065 G. Muller, C. L. Mauphin, J. P. Riehl,
H. Birkedal, C. Piguet, J.-C. G. Bünzli*



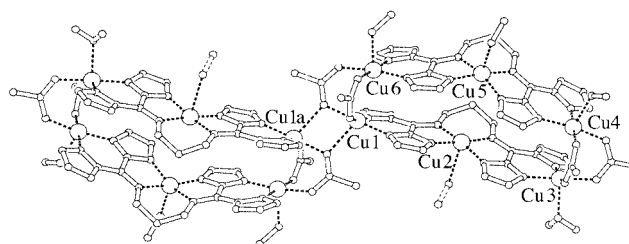
Structural, Photophysical and Chiro-Optical Properties of Lanthanide Complexes with a Bis-(benzimidazole)pyridine-Based Chiral Ligand



Keywords: Lanthanides / Luminescence / Chirality / Complexes / Terdentate ligand

4073 Y. Song, P. Gamez, A. F. Stassen, M. Lutz,
A. L. Spek, J. Reedijk*

Structure and Magnetism of a New Dodecanuclear Cu^{II} Complex with Acetato and Imidazolato Bridges, Formed by Oxidation of the Chelating Ligand 1,1,7,7-Tetrakis(imidazol-2-yl)-2,6-diazaheptane



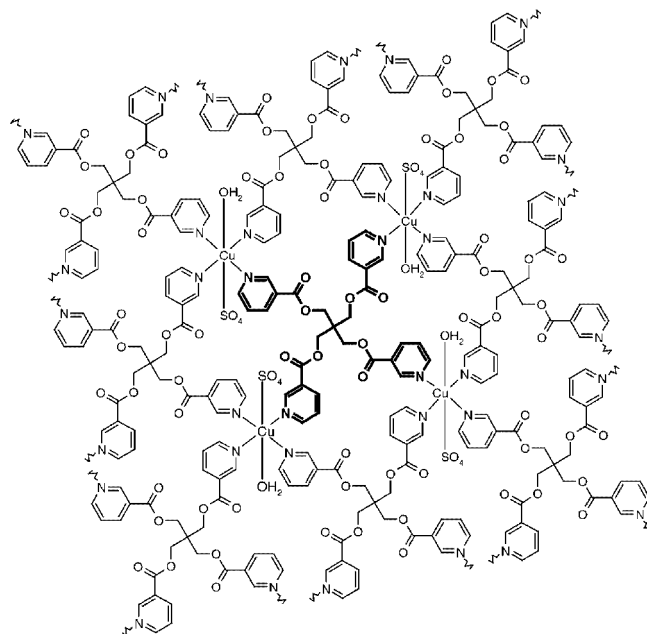
Keywords: Copper / Magnetic properties / N ligands / Chelates

4078 K. I. Nättinen, J. Linnanto, K. Rissanen*



Dimensionality Variation in Polymeric Metallo-Organic Frameworks

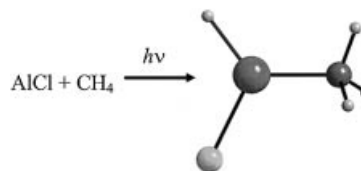
Keywords: Crystal engineering / X-ray diffraction / Self-assembly / Coordination polymers



4087 H.-J. Himmel*

H Activation by AlCl Monomers: Characterization of $\text{HAl}(\text{Cl})\text{CH}_3$ as the Product of the Photoactivated Reaction Between AlCl and CH_4 in a Solid Ar Matrix at 12 K

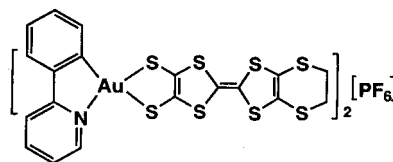
Keywords: Aluminum / Hydrides / Matrix isolation / C–H activation / Reaction mechanisms / Photochemistry



4093 K. Kubo, M. Nakano, H. Tamura, G. Matsubayashi*

X-ray Crystal Structure and Electrical Conductivity of $[\text{Au}(\text{ppy})(\text{C}_8\text{H}_4\text{S}_8)]_2[\text{PF}_6]$ [ppy^- = C-deprotonated 2-phenylpyridine(-); $\text{C}_8\text{H}_4\text{S}_8^{2-}$ = 2-[(4,5-ethylenedithio)-1,3-dithiol-2-ylidene]-1,3-dithiole-4,5-dithionate(2-)]

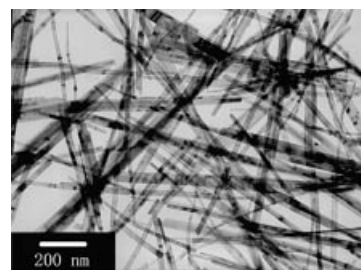
Keywords: Gold / S ligands / Oxidation / Sulfur / Electrochemistry



4099 Y.-W. Zhang, Z.-G. Yan, L.-P. You, R. Si, C.-H. Yan*

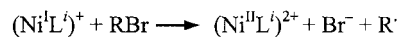
General Synthesis and Characterization of Monocrystalline Lanthanide Orthophosphate Nanowires

Keywords: Nanostructures / Lanthanides / Orthophosphates / Solvothermal synthesis



- 4105** E. Shandalov, I. Zilbermann,
E. Maimon, Y. Nahmani, H. Cohen,
E. Adar, D. Meyerstein*

Mechanism of Reduction of 2,2-Dibromo-
methyl-1,3-propanediol by Ni^I-Tetraazamacro-
cyclic Complexes in Aqueous Solution – A
Pulse Radiolysis and Electrochemical Study

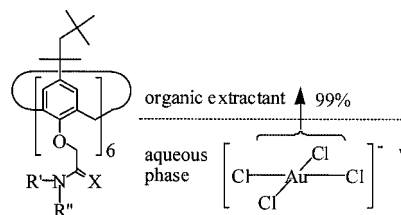


$$k = 5.3 \cdot 10^8; 1.6 \cdot 10^7; 6.0 \cdot 10^5, \text{ and } 3.5 \cdot 10^4 \text{ M}^{-1}\text{s}^{-1} \\ \text{for L}^1, \text{L}^2, \text{L}^3, \text{ and L}^4 \text{ respectively}$$

Keywords: Halogenated compounds / Pulse radiolysis /
Reduction / Electrochemistry / Macrocycles

- 4110** K. Belhamel, T. K. D. Nguyen,
M. Benamor, R. Ludwig*

Design of Calixarene-Type Ligands for Second
Sphere Complexation of Noble Metal Ions



Keywords: Macrocyclic ligands / Host-guest systems /
Calixarenes / Gold / Solvent extraction

- 4117** S.-M. Park, Y. Kim, S.-J. Kim*

Synthesis and Structures of Fe^{III} Complexes
Bridged by Cyanorhenium Clusters



Keywords: Cluster compounds / Nanostructures /
Magnetic properties / Rhenium / Iron