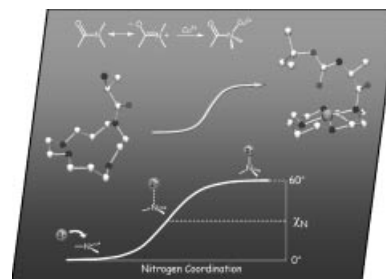


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COVER PICTURE

The cover picture shows the structural changes in tertiary carboxamide groups induced by coordination of the electrically neutral nitrogen atom to a metal ion. Changing the hybridization from sp^2 to sp^3 results in pyramidalization at the nitrogen atom. This is expressed by the parameter χ_N which ranges from 0° (sp^2) to 60° (sp^3). Werner complexes with relatively weak $M-N^{\text{amide}}$ bonds are known with χ_N values between 30° and 47° . Full sp^3 hybridization with complete lifting of the resonance and a value of 58° for χ_N is achieved in a complex in which the copper(II) ion is in the centre of the tetraazamacrocyclic amide ligand *tert*-butoxycarbonyl-alanyl-cyclam. Details of its synthesis and structure are discussed in the article by R. Alsasser et al. on p. 2357 ff.



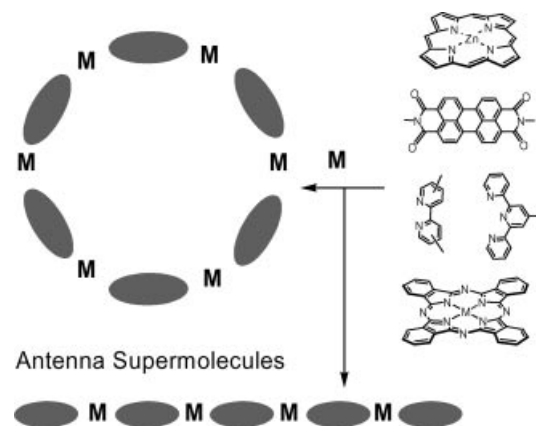
MICROREVIEW

Contents

2333 Y. Kobuke*

Artificial Light-Harvesting Systems by Use of Metal Coordination

Keywords: Energy conversion / Complementary coordination / Porphyrinoids / Phthalocyanines / Perylenebisimide / Bi(ter)pyridyl complex

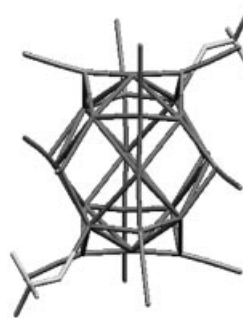


SHORT COMMUNICATION

- 2353** O. M. Abu-Salah,* M. H. J  far,
A. R. Al-Ohaly, K. A. Al-Farhan,
H. S. Al-Enzi, O. V. Dolomanov,
J. A. K. Howard

Synthesis and Structural Characterization of a Halide-Free Rhombohedral Silver-Alkynyl Cage Complex $[\text{Ag}_{14}(\text{C}_2\text{tBu})_{12}][\text{BF}_4]_2$

Keywords: Silver / Clusters / Silver alkynyls / Alkynyl cluster / Cationic silver complex / Silver cage complex / Rhombohedral silver cage

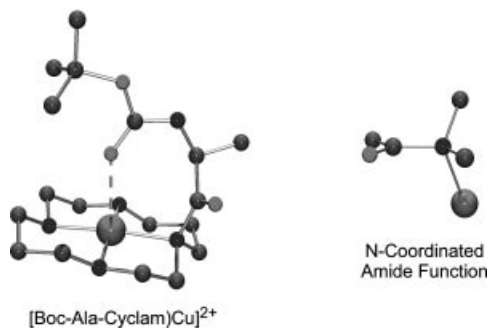


FULL PAPERS

- 2357** C. Schickaneder, F. W. Heinemann,
R. Alsfasser*

Copper(II) Complexes of the Tetraazamacrocyclic Tertiary Amide Ligand Alanyl-Cyclam

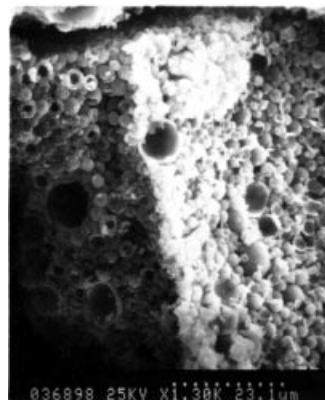
Keywords: Copper / Cyclam / Bioinorganic chemistry / Electrophilic activation / Winkler–Dunitz parameters



- 2364** X. Zheng, C. Liu, Y. Xie*

An Analogous Solution-Liquid-Solid (ASLS) Growth Route to InP Hollow Spheres and a Honeycomb-Like Macroporous Framework

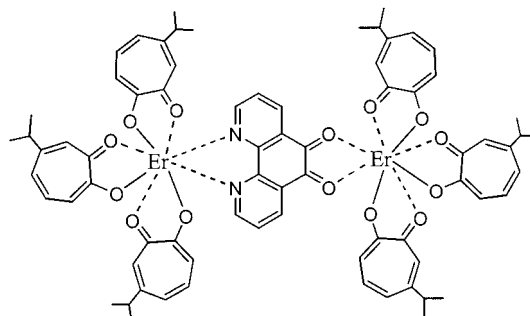
Keywords: Materials science / Mesoporous materials / Semiconductors / Synthesis design



- 2370** L. Bertolo, S. Tamburini,* P. A. Vigato,
W. Porzio, G. Macchi, F. Meinardi

Tris(tropolonato)phenanthroline Lanthanide(III) Complexes as Photochemical Devices

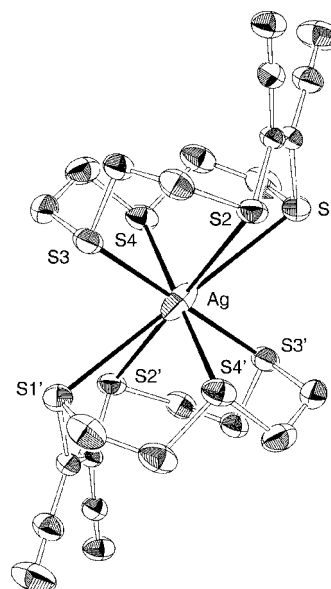
Keywords: Lanthanides / N ligands / O ligands / Molecular devices / Donor–acceptor systems / Time-resolved spectroscopy / Infrared emitters



- 2377** H.-J. Holdt,* H. Müller, M. Pötter,
A. Kelling, U. Schilde, I. Starke,
M. Heydenreich, E. Kleinpeter

The First Sandwich Complex with an Octa-(thioether) Coordination Sphere: Bis(maleonitrile-tetrathia-12-crown-4)silver(I)

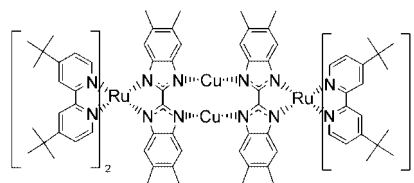
Keywords: Crown compounds / S ligands / Sandwich complexes / Silver



- 2385** D. Walther,* L. Böttcher, J. Blumhoff,
S. Schebesta, H. Görls, K. Schmuck, S. Rau,
M. Rudolph

Tetranuclear Complexes Containing a Luminescent Ru_2M_2 Core [$M = Cu^I$, (allyl) Pd^{II}]: Synthesis, Structures and Electrochemical Properties

Keywords: Copper / Luminescence / N ligands / Palladium / Ruthenium

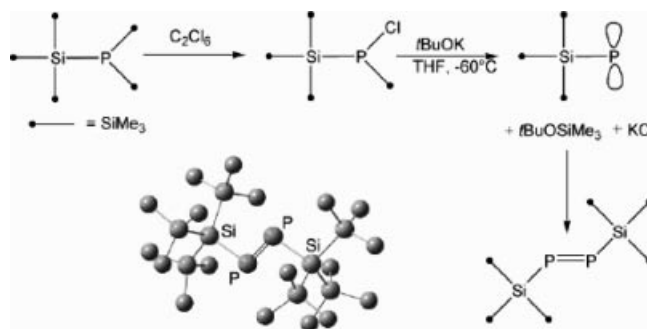


- 2393** V. Cappello, J. Baumgartner, A. Dransfeld,
M. Flock,* K. Hassler*



Hypersilylphosphanylidene: A Facile Low-Temperature Generation and Formation of Bis(hypersilyl)diphosphene and the Bis(hypersilyl)-triphosphaallyl Anion

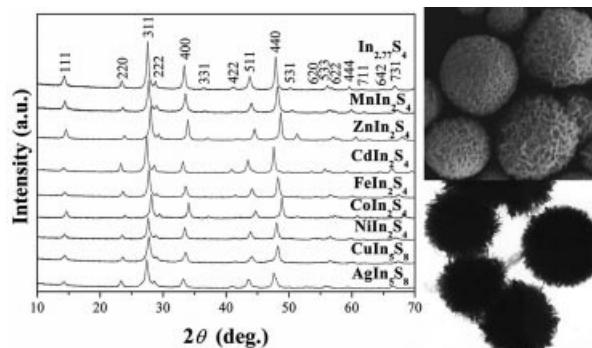
Keywords: Ab initio calculations / Carbene homologues / Phosphanes / Silicon



- 2406** S. J. Lei, K. B. Tang*, Y. X. Qi, Z. Fang,
H. G. Zheng

A Self-Sacrificing Template Route to Spinel $M^{II}In_2S_4$ ($M^{II} = Mn, Zn, Cd, Fe, Co, Ni$) and $M^IIn_5S_8$ ($M^I = Cu, Ag$) Porous Microspheres

Keywords: Solvothermal synthesis / Spinel phases / Microporous materials / Semiconductors

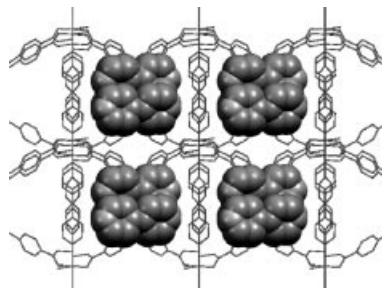


2411 C.-Y. Sun, S. Gao,* L.-P. Jin*



Hydrothermal Syntheses, Architectures and Magnetic Properties of Six Novel Mn^{II} Coordination Polymers with Mixed Ligands

Keywords: Coordination polymers / Magnetic properties / Manganese / Microporous materials / Organic–inorganic hybrid composites

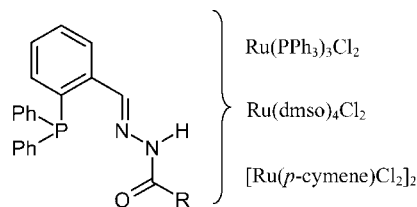


2422 P. Pelagatti,* A. Bacchi, M. Balordi, S. Bolaño, F. Calbiani, L. Elviri, L. Gonsalvi,* C. Pelizzi, M. Peruzzini, D. Rogolino



Octahedral Ru^{II} Complexes with [PNO] Hydrazone Ligands: Synthesis, Structure, Reactivity and Catalytic Activity in the Addition of Benzoic Acid to Alkynes

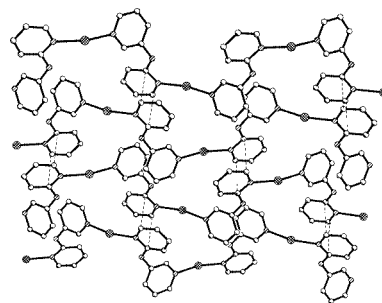
Keywords: Tridentate ligands / Ruthenium / Homogeneous catalysis / Enol esters / Mass spectrometry



2437 C. H. Zhou, Y. Y. Wang,* D. S. Li, L. J. Zhou, P. Liu, Q. Z. Shi

Polymers or Supramolecules Generated From a New V-Shaped Bis-monodentate Ligand and the Effect of Steric Hindrance on Coordination Modes of the Ligand

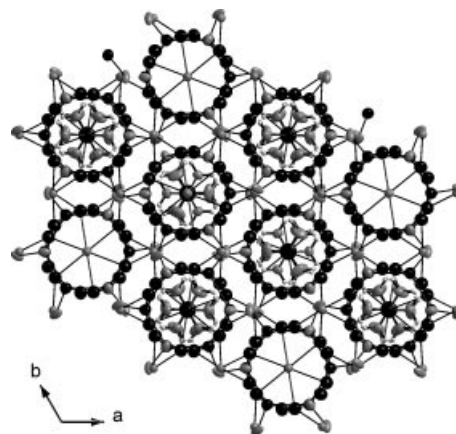
Keywords: Dipyrityldiamine / Helical structure / Density functional study / Silver / Copper



2447 H.-H. Li, Z.-R. Chen, J.-Q. Li,* C.-C. Huang, Y.-F. Zhang, G.-X. Jia

Synthesis and Characterization of Two Silver Iodides with One- and Three-Dimensional Hybrid Structures Constructed From $\text{Ag}\cdots\text{Ag}$ Interactions and Organic Templates

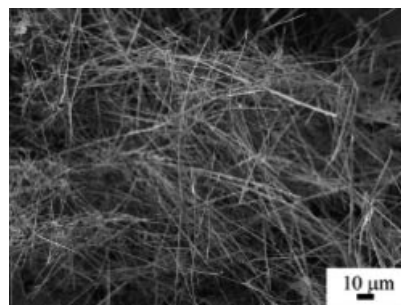
Keywords: Coordination polymers / Iodine / Organic–inorganic hybrid composites / Silver



2454 B.-Q. Xie, Y. Qian,* S. Zhang, S. Fu, W. Yu

A Hydrothermal Reduction Route to Single-Crystalline Hexagonal Cobalt Nanowires

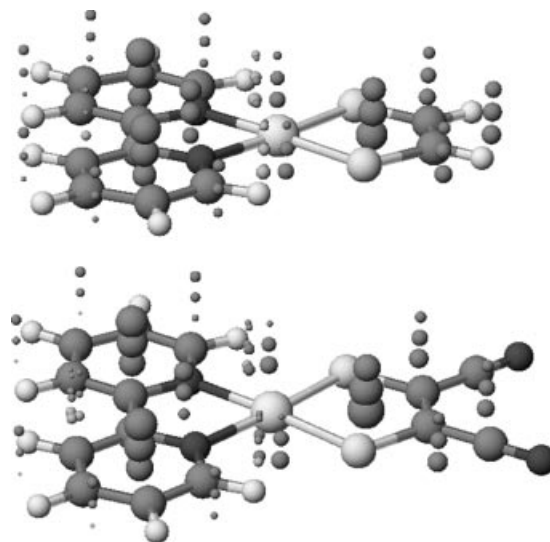
Keywords: Cobalt / Hydrothermal synthesis / Magnetic properties / Nanostructures



2460 C. Makedonas, C. A. Mitsopoulou*

The Relationship Between Aromaticity and Charge-Transfer Transitions: A Combined Study of Square-Planar Metal Complexes Based on DFT, NMR and Nucleus-Independent Chemical Shifts

Keywords: Aromaticity / Density functional calculations / N ligands / S ligands / Transition metals

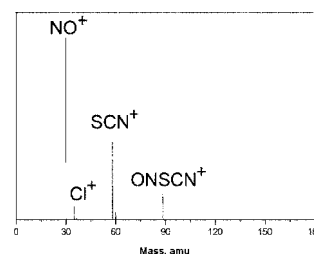


2469 L. Yao, X. Zeng, M. Ge,* W. Wang, Z. Sun, L. Du, D. Wang



First Experimental Observation of Gas-Phase Nitrosyl Thiocyanate

Keywords: Gas phase generation / Nitrosyl thiocyanate / Photoelectron spectroscopy / Time-of-flight mass spectrometer

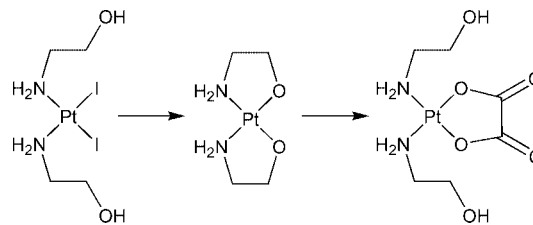


2476 K. Meelich, M. Galanski,* V. B. Arion, B. K. Keppler



Bis(2-amino alcohol-κN)dicarboxylatoplatinum(II) Complexes – Elegant Synthesis via Ring-Opening of Bis(2-amino alcoholato-κ²N,O)-platinum(II) Species with Dicarboxylic Acids

Keywords: Bioinorganic chemistry / Platinum / N,O ligands / Antitumor agents / Drug design

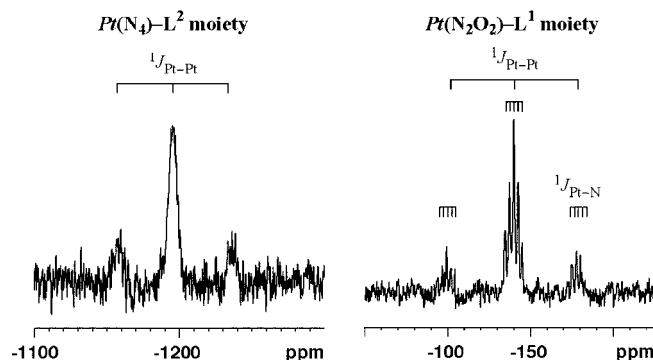


2484 S. Iwatsuki,* E. Isomura, A. Wada, K. Ishihara,* K. Matsumoto*



¹⁹⁵Pt NMR Spectra of Head-to-Head and Head-to-Tail Amidato-Bridged Platinum(III) Dinuclear Complexes

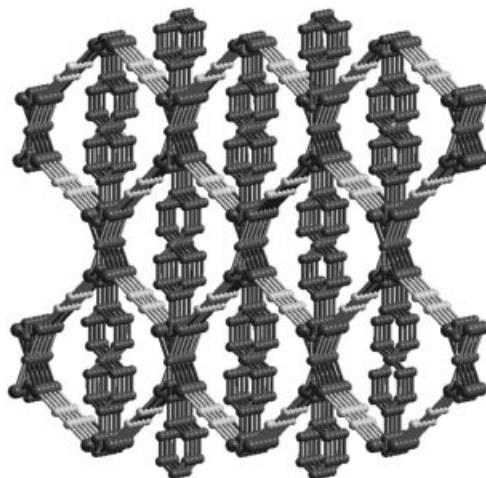
Keywords: Platinum / ¹⁹⁵Pt NMR / α-Pyridone / α-Pyrrolidone / Pivalamide / NMR spectroscopy





A Series of One- to Three-Dimensional Copper Coordination Polymers Based on N-Heterocyclic Ligands

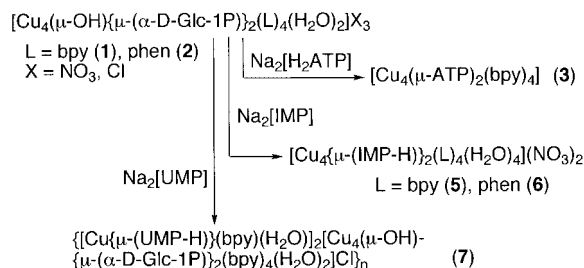
Keywords: Coordination polymers / Copper / Luminescence / Nitrogen heterocycles / Organic–inorganic hybrid composites



2504 M. Kato, A. K. Sah, T. Tanase,*
M. Mikuriya

Transformation of a Tetranuclear Copper(II) Complex Bridged by Sugar Phosphates into Nucleotide-Containing Cu₄ Aggregations

Keywords: Coordination chemistry / Copper / Nucleic acids / Carbohydrates / Clusters



CORRECTION

2515 S. Gautron, N. Lassauque, C. Le Berre,
P. Serp, L. Azam, R. Giordano,
G. Laurenczy, D. Thiébaut, P. Kalck*



Analysis of the Synergistic Effect of Carbonyl-platinum Complexes on the Iridium-Catalysed Carbonylation of Methanol to Acetic Acid

Keywords: Homogeneous catalysis / Carbonylation / Iridium / Platinum / Reaction mechanism



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