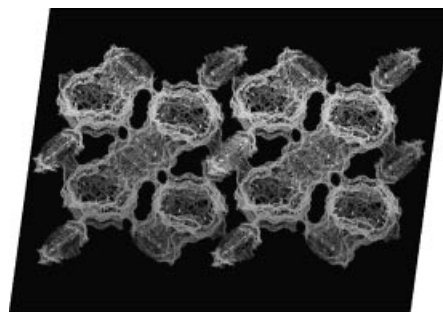


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COVER PICTURE

The cover picture shows the three-dimensional supramolecular arrangement of 1,10-phenanthroline (phen) residues in compound $(\text{Hphen})_6[\text{Ge}_6(\text{OH})_6(\text{hedp})_6] \cdot 2(\text{phen}) \cdot 20\text{H}_2\text{O}$ (where H_4hedp stands for etidronic acid). Protonated organic residues, Hphen^+ , π - π -stack along the [101] direction of the unit cell, which leads to the formation of columns that are interconnected through a series of weak $\text{C}-\text{H} \cdots \pi$ interactions with neighbouring 1,10-phenanthrolines. The resulting organic framework is highly porous and contains charge-balancing centrosymmetric hexameric anionic $[\text{Ge}_6(\mu_2\text{-OH})_6(\text{C}_2\text{H}_4\text{O}_7\text{P}_2)_6]^{6-}$ moieties within the channels and a large number of highly disordered water molecules (total available volume of ca. $2462 \text{ \AA}^3$ per unit cell). Details are discussed in the article by J. Rocha et al. on p. 4741 ff.



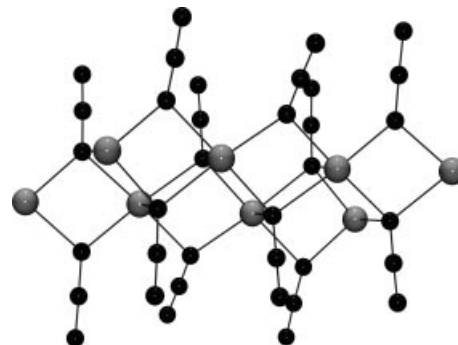
MICROREVIEW

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4721 A. Escuer, G. Aromí*

Azide as a Bridging Ligand and Magnetic
 Coupler in Transition Metal Clusters

Keywords: Cluster compounds / Azides / Magnetic
 properties / Single-molecule magnets



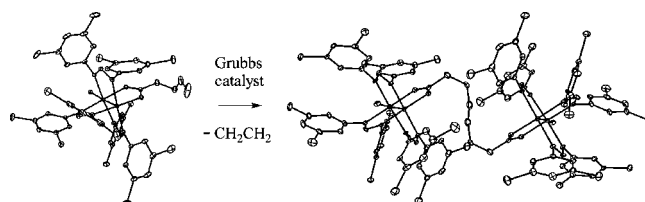
SHORT COMMUNICATION

- 4737 W.-Z. Chen, J. D. Protasiewicz, A. J. Shirar, T. Ren*



Dimerization of Diruthenium Coordination Compounds via Olefin Metathesis

Keywords: Olefin metathesis / Dimerization / Diruthenium compounds / ω -Alkene- α -carboxylate



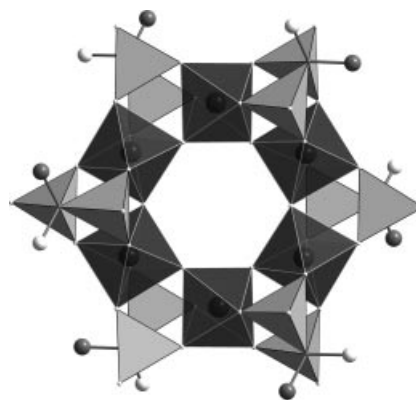
FULL PAPERS

- 4741 L. Mafra, F. A. Almeida Paz, F.-N. Shi, R. A. Sá Ferreira, L. D. Carlos, T. Trindade, C. Fernandez, J. Klinowski, J. Rocha*



Crystal Structure, Solid-State NMR Spectroscopic and Photoluminescence Studies of Organic-Inorganic Hybrid Materials (HL)₆[Ge₆(OH)₆(hedp)₆]·2(L)·nH₂O, L = hqn or phen

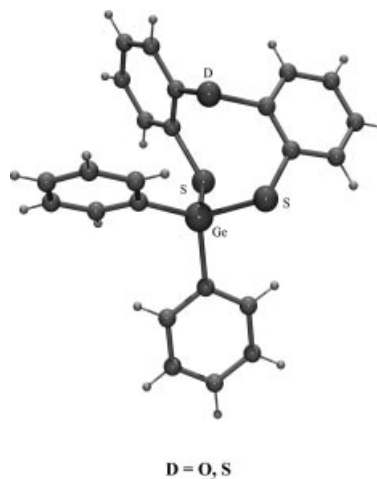
Keywords: Germanium / Organic-inorganic hybrid materials / Crystal structure / NMR spectroscopy / Photoluminescence



- 4752 S. González-Montiel, N. Andrade-López, V. García-Montalvo, J. A. Cogordan, J. G. Alvarado-Rodríguez*

Pentacoordination at Germanium by Transannular Bonding of Sulfur or Oxygen in an Eight-Membered Ring: An Experimental and Theoretical Study

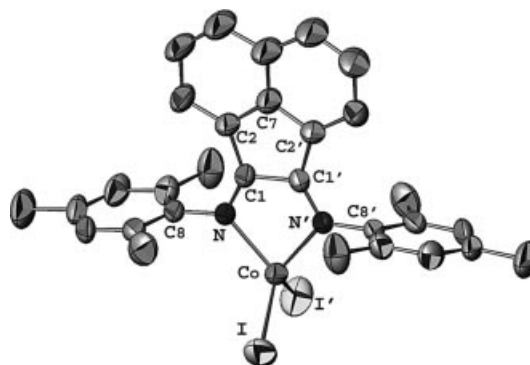
Keywords: Germanium / Hypercoordinate compounds / Structure elucidation / Density functional theory / NBO analysis



- 4761 V. Rosa, P. J. Gonzalez, T. Avilés,* P. T. Gomes, R. Welter,* A. C. Rizzi, M. C. G. Passeggi, C. D. Brondino*

Synthesis, Solid-State Structures, and EPR Spectroscopic Studies on Polycrystalline and Single-Crystal Samples of α -Diimine Cobalt(II) Complexes

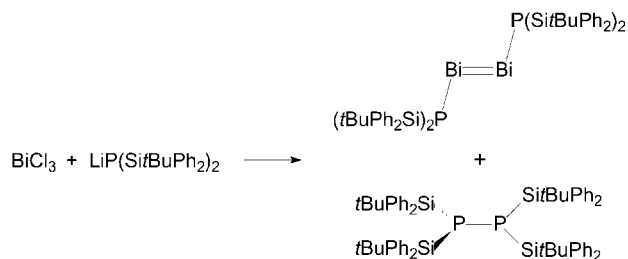
Keywords: Cobalt(II) complexes / α -Diimine ligands / Single-crystal X-ray diffraction / EPR spectroscopy



4770 C. von Hänisch,* D. Nikolova

Synthesis and Characterisation of Molecular Bismuth Phosphorus Compounds Containing Bi₂ Units with Bi–Bi Single and Double Bonds

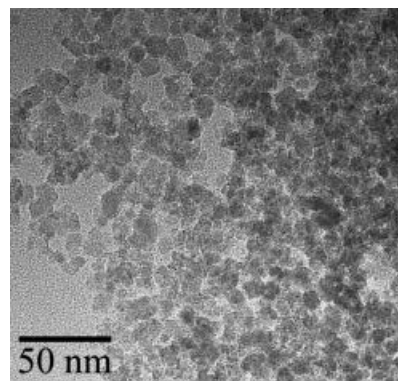
Keywords: Bismuth / Phosphorus / Double bonds



4774 Y. Guo, W. Meyer-Zaika, M. Muhler, S. Vukojević, M. Eppler*

Cu/Zn/Al Xerogels and Aerogels Prepared by a Sol–Gel Reaction as Catalysts for Methanol Synthesis

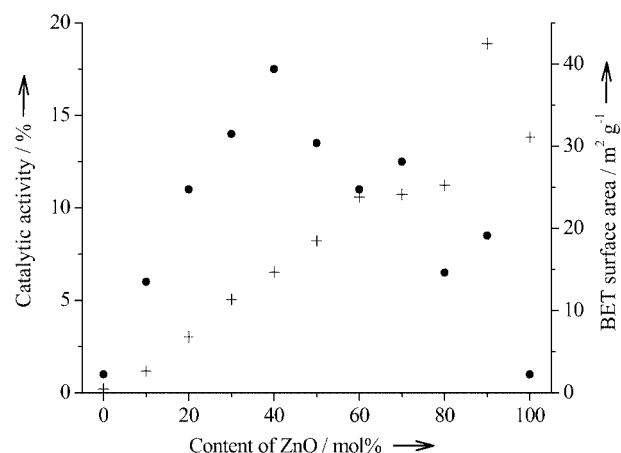
Keywords: Heterogeneous catalysis / Copper / Zinc / Aluminum / Sol–gel processes / Mesoporous materials



4782 R. Weiss, S. Vukojević, C. Baltes, R. N. d'Alnoncourt, M. Muhler, M. Eppler*

Copper/Zinc L-Tartrates: Mixed Crystals and Thermolysis to a Mixture of Copper Oxide and Zinc Oxide That Is Catalytically Active in Methanol Synthesis

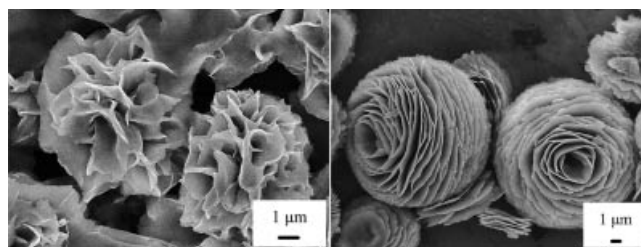
Keywords: Heterogeneous catalysis / Copper / Zinc / Thermochemistry



4787 L.-X. Yang, Y.-J. Zhu,* L. Li, L. Zhang, H. Tong, W.-W. Wang, G.-F. Cheng, J.-F. Zhu

A Facile Hydrothermal Route to Flower-Like Cobalt Hydroxide and Oxide

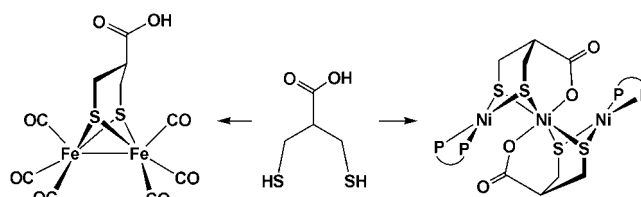
Keywords: Cobalt hydroxide / Cobalt oxide / Materials science / Nanostructures / Solvothermal synthesis



4793 P. I. Volkers, T. B. Rauchfuss,* S. R. Wilson

Coordination Chemistry of 3-Mercapto-2-(mercaptomethyl)propanoic Acid (Dihydroasparagusic Acid) with Iron and Nickel

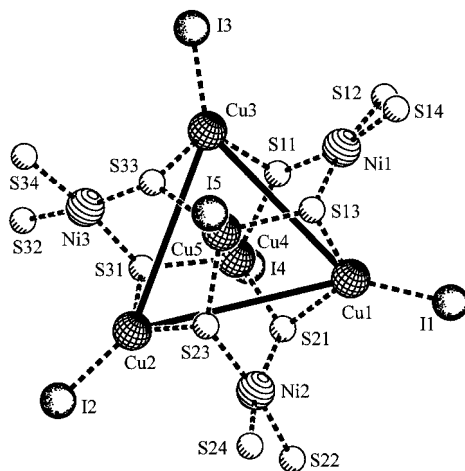
Keywords: Iron / Nickel / S ligands / Bridging ligands / Coordination modes



4800 J. A. W. Verhagen, C. Tock, M. Lutz,
A. L. Spek, E. Bouwman*

Nickel Thiolate Complexes as Ligands for Copper and Zinc: Novel Additions to a Library of Binding Modes

Keywords: Nickel / Copper / Zinc / S ligands / Cluster compounds

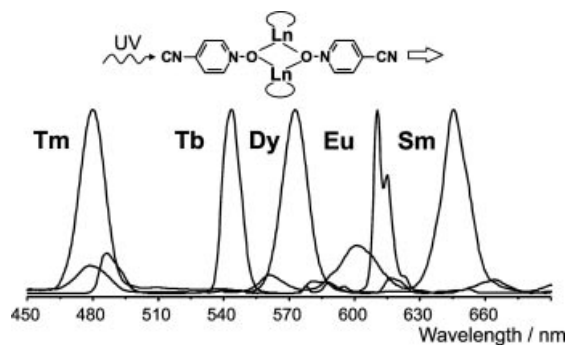


4809 S. V. Eliseeva,* M. Ryazanov,* F. Gumy,
S. I. Troyanov, L. S. Lepnev, J.-C. G. Bünzli,
N. P. Kuzmina



Dimeric Complexes of Lanthanide(III) Hexafluoroacetylacetonates with 4-Cyanopyridine *N*-Oxide: Synthesis, Crystal Structure, Magnetic and Photoluminescent Properties

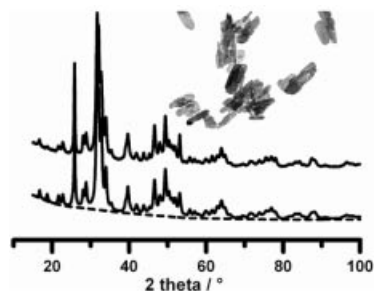
Keywords: Lanthanides / β -Diketonates / Luminescence / Thin films / Photophysics



4821 E. Boanini, M. Fini, M. Gazzano, A. Bigi*

Hydroxyapatite Nanocrystals Modified with Acidic Amino Acids

Keywords: Hydroxyapatite / Amino acids / Nanocrystals

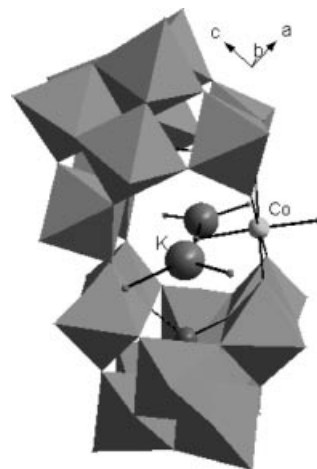


4827 H. Liu, J. Peng,* Z. Su, Y. Chen, B. Dong,
A. Tian, Z. Han, E. Wang



Synthesis and Structural Characterization of Sandwich-Type Keggin- γ -Lacunary Silicotungstates with an Open Wells–Dawson-Like Structure

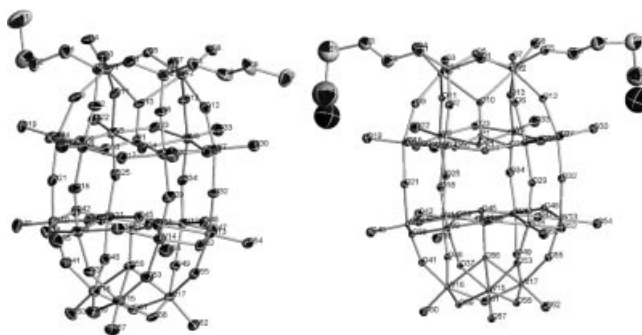
Keywords: Polyoxometalates / Tungstosilicates / Keggin structures / Transition metals



4834

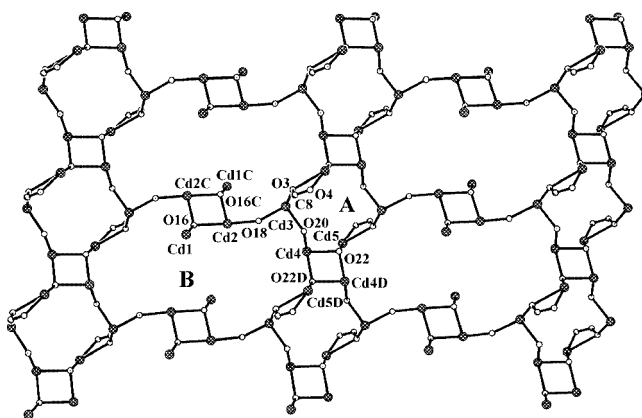
C. N. Kato, Y. Kasahara, K. Hayashi,
A. Yamaguchi, T. Hasegawa, K. Nomiya*

Syntheses, Characterization, and X-ray Crystal Structures of Mono-Lacunary Dawson Polyoxometalate-Based Organosilyl Complexes

Keywords: Silicon / Polyoxometalates / X-ray diffraction / Tungsten

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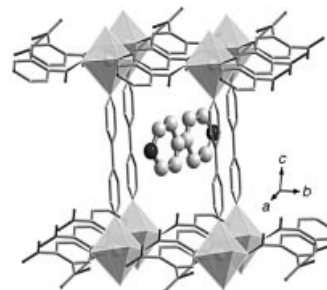
Q.-Y. Liu, Y.-L. Wang, L. Xu*

Synthesis, Crystal Structures and Photoluminescent Properties of Three Novel Cadmium(II) Compounds Constructed from 5-Sulfoisophthalic Acid (H₃SIP)**Keywords:** Cadmium compounds / Hydrothermal synthesis / Crystal structures / Photoluminescent properties

4852

Y. Zhou, C. Yue, D. Yuan, L. Chen, J. Chen,
A. Lan, F. Jiang,* M. Hong

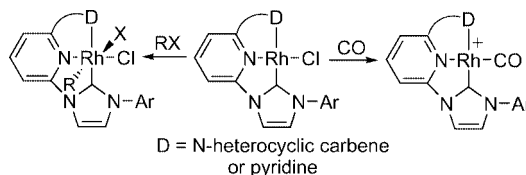
Nickel-Organic Coordination Layers with Different Directional Cavities

Keywords: Nickel / Carboxylate ligands / Coordination polymers / Magnetic properties / Luminescence

4857

J. A. Wright, A. A. Danopoulos,*
W. B. Motherwell,* R. J. Carroll,
S. Ellwood, J. Saßmannshausen

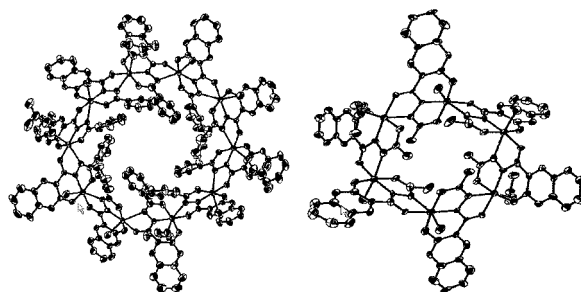
“Pincer” N-Heterocyclic Carbene Complexes of Rhodium Functionalised with Pyridyl and Bipyridyl Donors

Keywords: Rhodium / Carbene ligands / Tridentate ligands / N ligands / Ligand design

4866 J. M. Dou,* M. L. Liu, D. C. Li,
D. Q. Wang

Synthesis, Characterization, and Crystal Structure of Two Manganese Metallacrowns: 30-Metallacrown-10 and 18-Metallacrown-6 with Ligands Derived from 3-Hydroxy-2-naphthalenecarbohydrazide

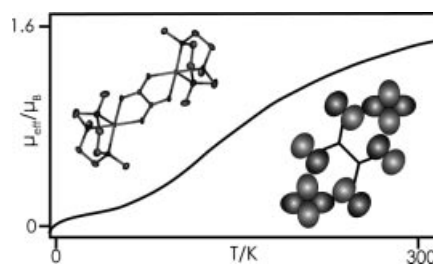
Keywords: Metallacrowns / Manganese / Crystal structure / Supramolecular chemistry / Crown compounds



4872 M. J. Belousoff, B. Graham, B. Moubaraki,
K. S. Murray, L. Spiccia*

Oxalato-Bridged Dinuclear Copper(II) Complexes of *N*-Alkylated Derivatives of 1,4,7-Triazacyclononane: Synthesis, X-ray Crystal Structures and Magnetic Properties

Keywords: Dinuclear copper(II) complexes / Oxalato bridges / *N*-Alkylated 1,4,7-triazacyclononane derivatives / X-ray structures / Antiferromagnetic coupling

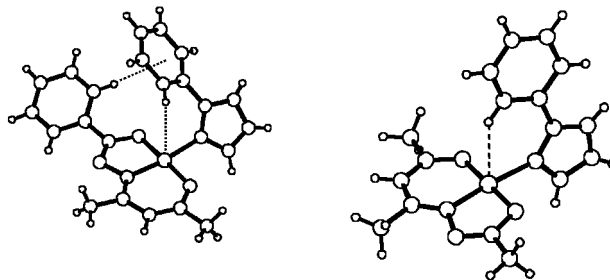


4879 A. Mukhopadhyay, S. Pal*



Intramolecular Apical C–H...M Interactions in Square-Planar Nickel(II) Complexes with Dianionic Tridentate Ligands and 2-Phenylimidazole

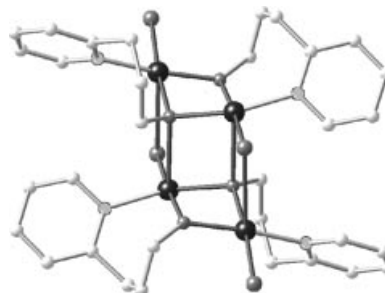
Keywords: Nickel(II) complexes / Square-planar complexes / Apical C–H...Ni interactions / X-ray structures / Theoretical calculations



4888 N. Lah,* I. Leban, R. Clérac*

The Assembly of Dinuclear Alkoxo-Bridged Cu^{II} Halide Complexes of Pyridine Alcohols To Form Tetranuclear and Polynuclear Compounds: Synthesis, Structure, and Magnetic Properties

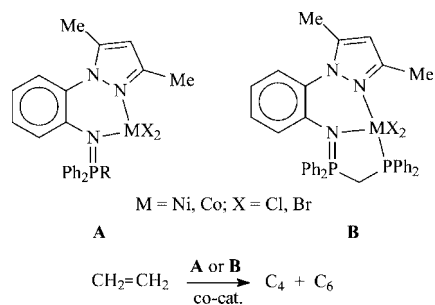
Keywords: Pyridine alcohol ligands / Alkoxides / Copper(II) defect dicubanes / Copper(II) coordination polymers / X-ray structures / Magnetic properties



4895 C. Zhang, W.-H. Sun, Z.-X. Wang*

Cobalt and Nickel Complexes Bearing Pyrazolyliminophosphorane Ligands: Synthesis, Characterisation and Catalytic Ethylene Oligomerisation Behaviour

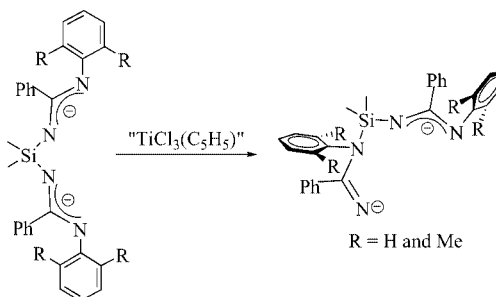
Keywords: Cobalt / Nickel / Homogeneous catalysis / Ethylene / Oligomerisation



4903 S.-D. Bai, J.-P. Guo,* D.-S. Liu,* W.-Y. Wong

Bulky-Hindrance-Controlled Ligand Transformation from Linked Bis(amidinate) to Linked Imido-Amidinate Promoted by a Mono(cyclopentadienyl)titanium Group

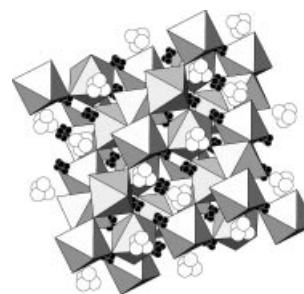
Keywords: Titanium / Bis(amidinate) / Bulky hindrance / Ligand transformation / Crystal structure / Steric hindrance



4908 T. A. Vanderah, T. Siegrist, M. W. Lufaso,* M. C. Yeager, R. S. Roth, J. C. Nino, S. Yates

Phase Formation and Properties in the System $\text{Bi}_2\text{O}_3\cdot 2\text{CoO}_{1+x}\cdot \text{Nb}_2\text{O}_5$

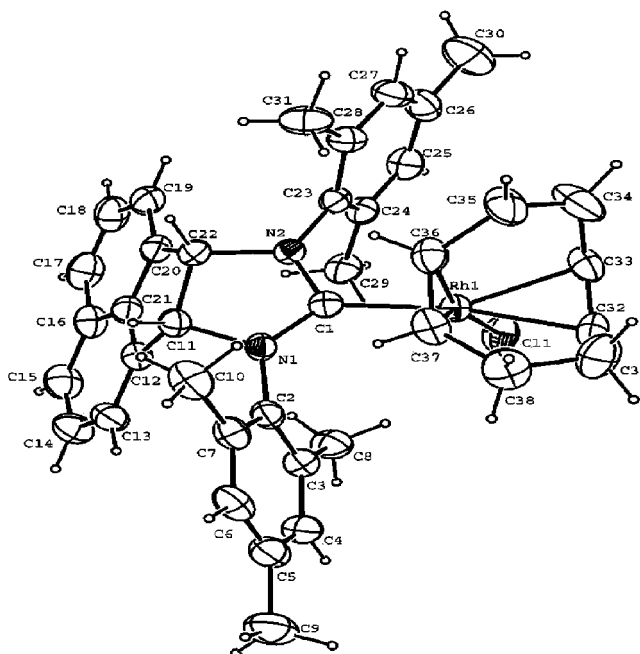
Keywords: Pyrochlore / Displacive disorder / Bismuth cobalt niobates / Bi-Co-Nb-O / Phase equilibria / Phase diagram / Dielectric properties / Magnetic properties



4915 H. Türkmen, O. Şahin, O. Büyükgüngör, B. Çetinkaya*

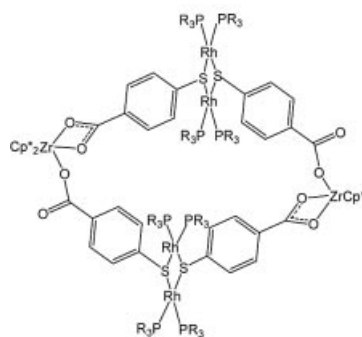
Silver, Palladium and Rhodium Complexes of Acenaphthylene-Anullated N-Heterocyclic Carbene Ligands: A Comparative Study

Keywords: N-Heterocyclic carbenes / Silver complexes / Thiones / Palladium complexes / Rhodium complexes / C-C coupling

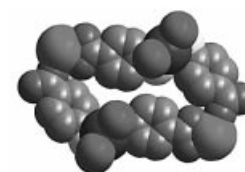


4-Thiolatobenzoato-Bridged Rhodium/Zirconium Complexes: 32-Membered Metallamacrocycles and Their Linear Dinuclear Counterparts

Keywords: Heterometallic complexes / Metallacycles / Bridging ligands / Metal–metal interactions / Rhodium / Zirconocenes / S,O ligands



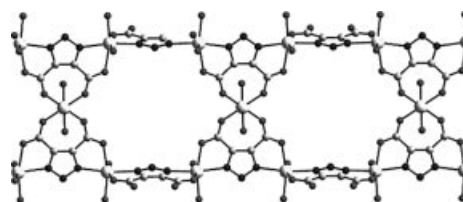
R = Ph



R = Et

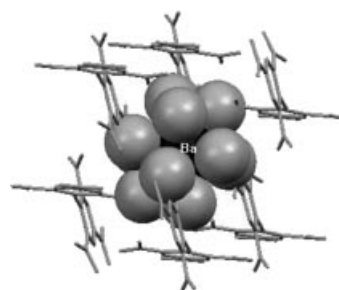
Synthesis, Crystal Structures, and Magnetic Properties of 2D Manganese(II) and 1D Gadolinium(III) Coordination Polymers with 1*H*-1,2,3-Triazole-4,5-dicarboxylic Acid

Keywords: Manganese / Gadolinium / Coordination polymers / Magnetic properties / N,O ligands



Selective Precipitation of Alkaline Earth Metal Cations with Dipicrylamine Anion: Structure–Selectivity Correlation

Keywords: O ligands / Alkaline earth metals / Selectivity / Structure–selectivity correlation



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