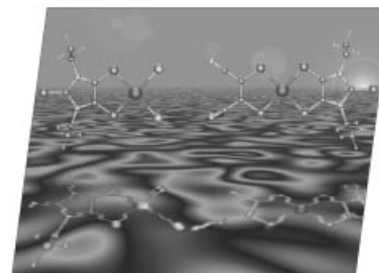


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COVER PICTURE

The cover picture shows the X-ray structure of $[\text{Pd}(\text{Et}_2\text{timdt})\text{Br}_2]$ (left; Et_2timdt = diethylimidazolidine-2,4,5-trithione), obtained by treating the symmetrically substituted dithiolene $[\text{Pd}(\text{Et}_2\text{timdt})_2]$ with Br_2 or IBr . This complex has been exploited as a starting material for the synthesis of the new mixed-ligand, push-pull dithiolene $[\text{Pd}(\text{Et}_2\text{timdt})(\text{mnt})]$ (mnt = maleonitriledithiolate), whose X-ray molecular structure is depicted on the right. Details are discussed in the Short Communication by M. Arca et al. on p. 1291 ff.



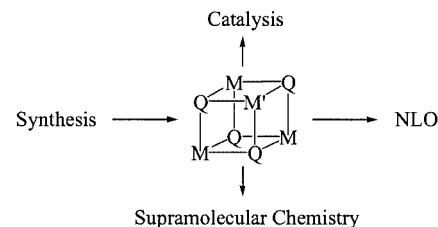
MICROREVIEW

Contents

1271 R. Llusar,* S. Uriel

Heterodimetallic Chalcogen-Bridged Cubane-Type Clusters of Molybdenum and Tungsten Containing First-Row Transition Metals

Keywords: Molybdenum / Tungsten / Cluster compounds / Sulfur / Selenium / Heterometallic complexes

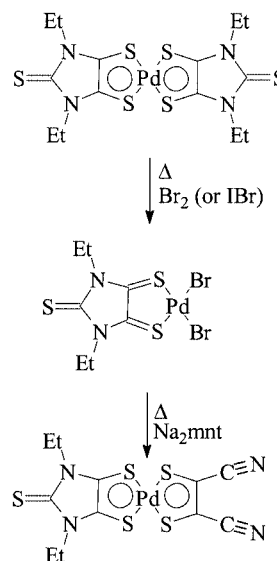


SHORT COMMUNICATIONS

- 1291** M. C. Aragoni, M. Arca,* C. Denotti,
F. A. Devillanova, E. Grigiotti, F. Isaia,
F. Laschi, V. Lippolis, L. Pala,
A. M. Z. Slawin, P. Zanello, J. D. Woollins

A Facile Synthesis of a Push-Pull Mixed-Ligand Pd-Dithiolene Complex Containing the Et₂timdt Ligand (Et₂timdt = Monoreduced Diethylimidazolidine-2,4,5-trithione)

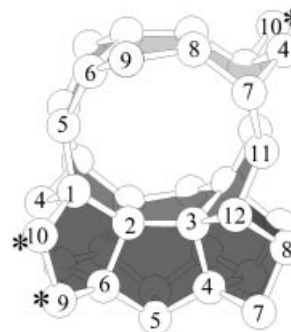
Keywords: Palladium / Halogenation / S ligands / Density functional calculations / Non-linear optics



- 1296** E. Theunissen, C. E. A. Kirschhock,
S. P. B. Kremer, D. D. Habermacher,
J. A. Martens*

Preferential Siting of Iron Atoms in an MFI-type Ferrisilicate Zeolite Framework: An Attempt to Explain Experimental Data with TPA-Silicate Solution Chemistry

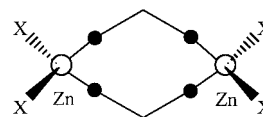
Keywords: Zeolites / Transition metals / Iron / X-ray diffraction



- 1299** C. Klein, E. Graf, M. W. Hosseini,*
A. De Cian, N. Kyritsakas

Design and Structural Analysis of Metallamacrocycles Based on Zinc Halides and a V-Shaped Bimonodentate Ligand of the Cyclophane Type

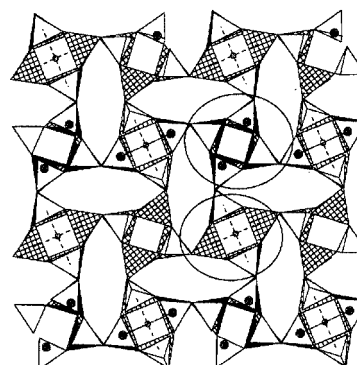
Keywords: Cyclophanes / Pyridine / Zinc / Metallacycles



- 1303** D. Sun, R. Cao,* Y. Sun, W. Bi, M. Hong

A Novel Open-Framework Gallium Phosphate Containing Two Different Building Units

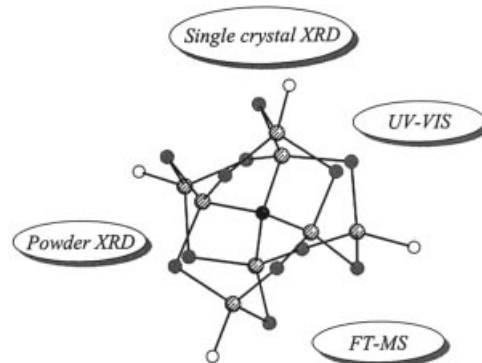
Keywords: Zeolite analogues / Gallium / Phosphates / Alkali metals / Fluorides



1307 A. Eichhöfer,* O. Hampe, M. Blom

Synthesis, Structures, and Properties of a Series of $[\text{Cd}_8\text{Se}(\text{SePh})_{12}\text{Cl}_4]^{2-}$ Cluster Compounds with Different Counterions

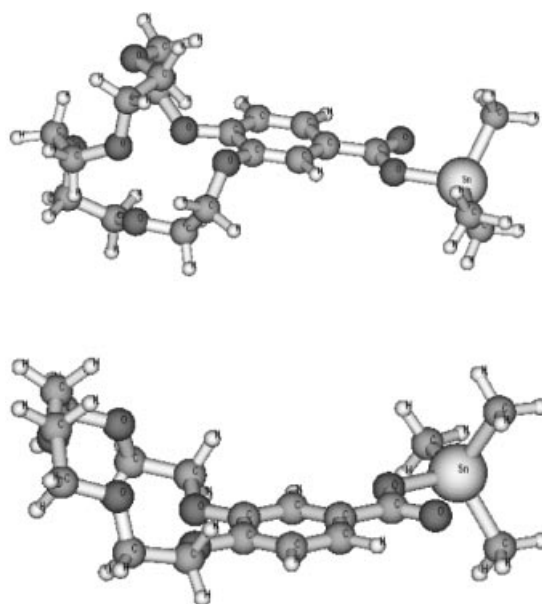
Keywords: Cluster compounds / Cadmium / Selenium / X-ray diffraction / UV/Vis spectroscopy / Mass spectrometry



1315 R. Vivas-Reyes, F. De Proft, M. Biesemans, R. Willem, P. Geerlings*

A DFT Study of Tin- and Crown-Ether-Based Host Molecules Capable of Binding Anions and Cations Simultaneously

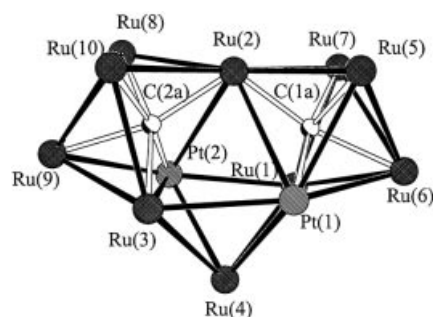
Keywords: Acidity / Basicity / Crown compounds / Density functional calculations / Host-guest systems / Tin



1325 B. F. G. Johnson,* S. Hermans, T. Khimyak

Synthesis and Structure of Two New High Nuclearity Ru/Pt Mixed-Metal Clusters

Keywords: Cluster compounds / Ruthenium / Platinum / Heterometallic complexes / Bridging ligands

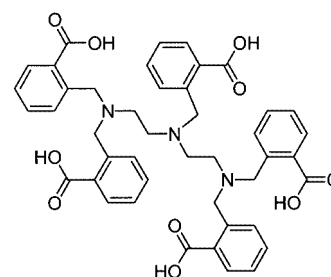


1332 D. Imbert, N. Fatin-Rouge, J.-C. G. Bünzli*



Lanthanide Chelates Based on Diethylenetriamine Fitted with *O*-Benzoic Acid Pendant Arms

Keywords: Carboxylate ligands / Lanthanides / Luminescence / Podand / Stability constant

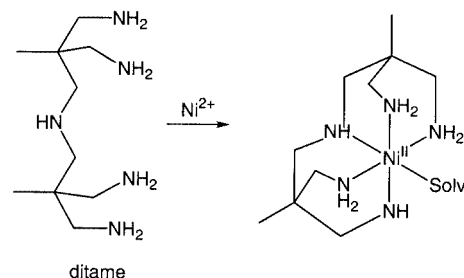


- 1340** K. Hegetschweiler,* O. Maas, A. Zimmer, R. J. Geue, A. M. Sargeson, J. Harmer, A. Schweiger, I. Buder, G. Schwitzgebel, V. Reiland, W. Frank



The Coordination Chemistry of the Pentadentate 2,2,6,6-Tetrakis(aminomethyl)-4-azaheptane (ditame)

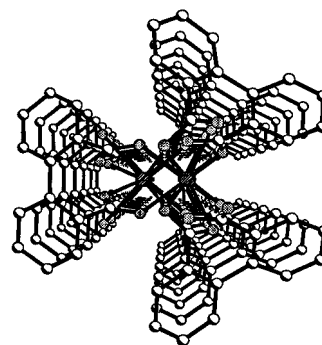
Keywords: Amine ligands / Chelates / Ligand design / Stability constants



- 1355** Y.-B. Wang, X.-J. Zheng, W.-J. Zhuang, L.-P. Jin*

Hydrothermal Synthesis and Characterization of Novel Lanthanide 2,2'-Diphenyldicarboxylate Complexes

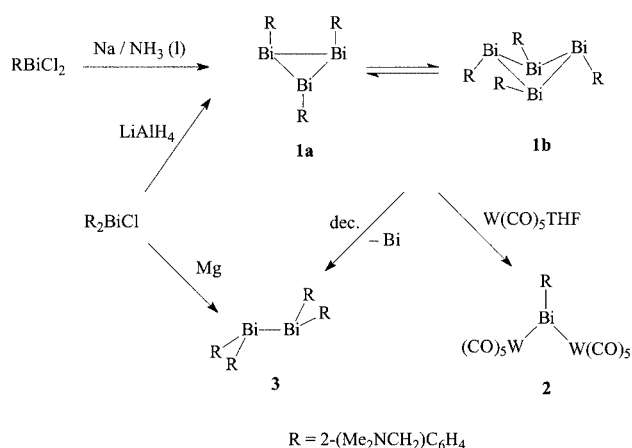
Keywords: Hydrothermal synthesis / Lanthanides / Coordination polymer / X-ray diffraction



- 1361** L. Balazs, H. J. Breunig,* E. Lork, C. Silvestru

Low-Valent Organobismuth Compounds with Intramolecular Coordination: *cyclo*-R₃Bi₃, *cyclo*-R₄Bi₄, RBi[W(CO)₅]₂, and R₄Bi₂ [R = 2-(Me₂NCH₂)C₆H₄]

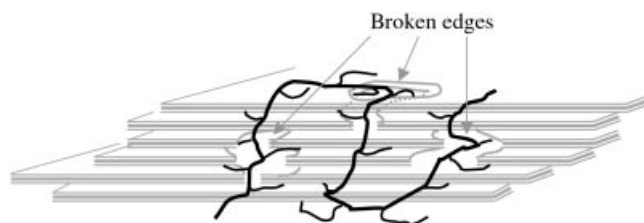
Keywords: Bismuth / Metallacycles / Tungsten



- 1366** R. D. Gougeon,* M. Soulard, M. Reinholdt, J. Miehe-Brendlé, J.-M. Chézeau, R. Le Dred, R. Marchal, P. Jeandet*

Polypeptide Adsorption on a Synthetic Montmorillonite: A Combined Solid-State NMR Spectroscopy, X-ray Diffraction, Thermal Analysis and N₂ Adsorption Study

Keywords: Peptides / Adsorption / Clays / NMR spectroscopy / X-ray diffraction

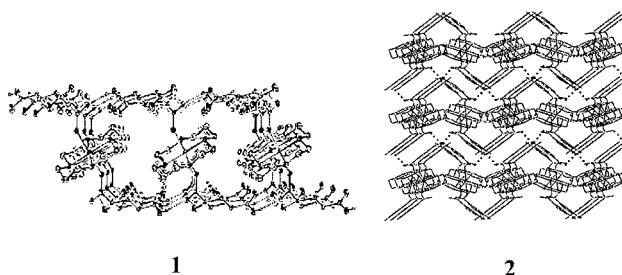


1373 M. P. Suh,* K. S. Min, J. W. Ko, H. J. Choi



Assembly of Hydrogen-Bonded Organic Layers with Macrocyclic Complexes Acting as Pillars

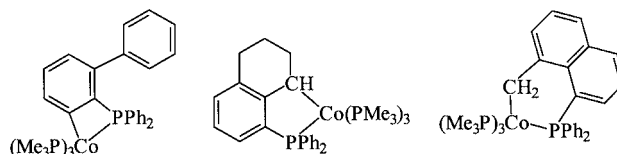
Keywords: Hydrogen bonds / Layered compounds / Macrocyclic ligands / Nickel / Self-assembly



1380 H.-F. Klein,* R. Beck, U. Flörke, H.-J. Haupt

Five- and Six-Membered Cobaltocycles with C,P-Chelating Ligands through Regiospecific Cyclometalation of Mono(2-Substituted) Triphenylphosphane

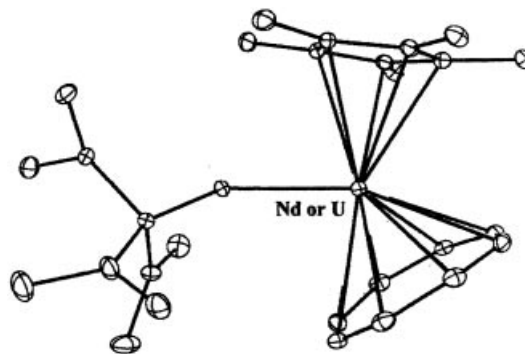
Keywords: Chelates / Cobalt / Metalation / Metalla-cycles / Structure elucidation



1388 S. M. Cendrowski-Guillaume,* G. Le Gland, M. Nierlich, M. Ephritikhine*

A Comparison of Analogous 4f- and 5f-Element Compounds: Syntheses and X-ray Crystal Structures of the Mixed Sandwich Complexes $[M(\eta\text{-C}_8\text{H}_8)(L)\{\text{OP}(\text{NMe}_2)_3\}]$ ($M = \text{Nd}$ or U ; $L = \eta\text{-C}_5\text{Me}_5$ or $\eta\text{-C}_4\text{Me}_4\text{P}$)

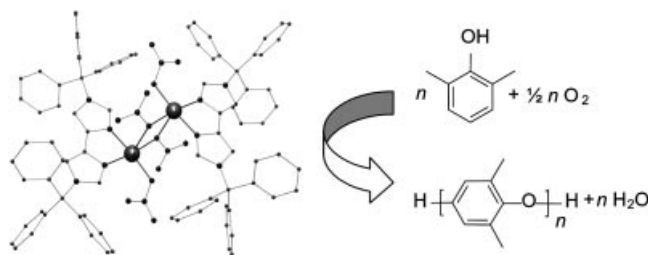
Keywords: Cyclopentadienyl ligands / P ligands / Lanthanides / Actinides / Sandwich complexes



1394 G. Aromí, P. Gamez, H. Kooijman, A. L. Spek, W. L. Driessen, J. Reedijk*

Two New Dinuclear Sterically Crowded Cu^{II} Complexes as Catalyst Precursors for the Oxidative Coupling of 2,6-Dimethylphenol

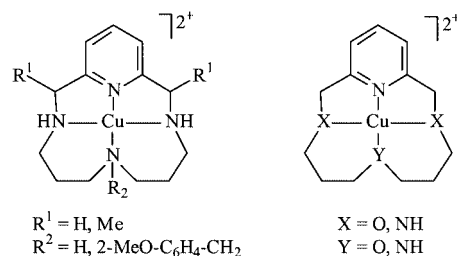
Keywords: Copper / N ligands / Homogeneous catalysis / Oxidations



1401 S. Autzen, H.-G. Korth, R. Boese, H. de Groot,* R. Sustmann*

Studies of Pyridinyl-Containing 14-Membered Macrocyclic Copper(II) Complexes

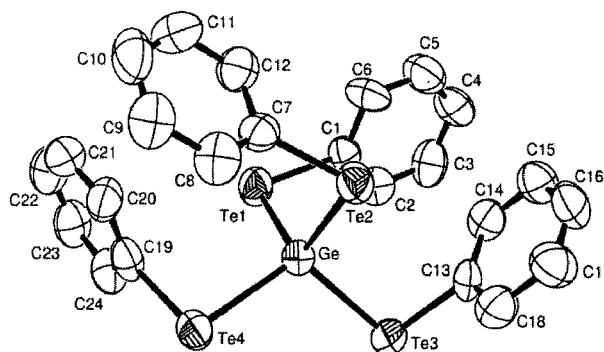
Keywords: Macrocyclic ligands / Copper / Enzyme models / Superoxide dismutase



1411 S. Schlecht,* K. Fries

Direct Synthesis of (PhSe)₄Ge and (PhTe)₄Ge from Activated Hydrogenated Germanium – Crystal Structure and Twinning of (PhTe)₄Ge

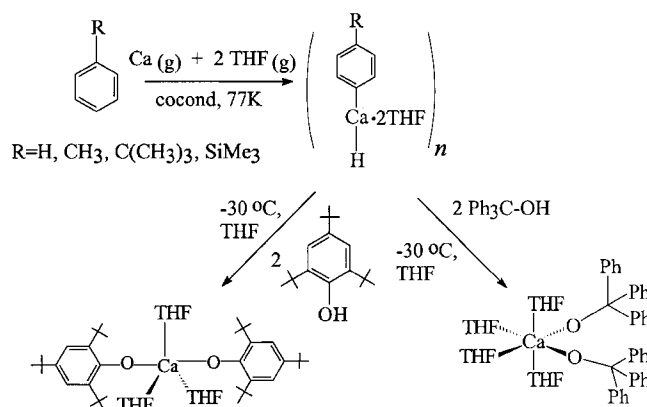
Keywords: Germanium / Tellurium / Van der Waals interactions / Active metals



1416 J. P. Dunne, M. Tacke,* C. Selinka, D. Stalke

Arylcalcium Hydrides as Precursors to Alkoxides and Aryloxides of Calcium

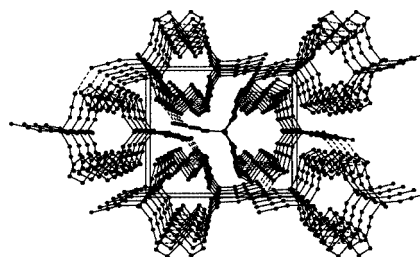
Keywords: Calcium / C–H activation / Cocondensation / Hydrides



1426 O. V. Pryma, S. R. Petrusenko,* V. N. Kokozay, B. W. Skelton, O. V. Shishkin, T. S. Teplytska

A Facile Direct Synthesis of Bimetallic Cu^{II}Zn^{II} Complexes with Ethylenediamine Revealing Different Types of Chain Crystal Structures

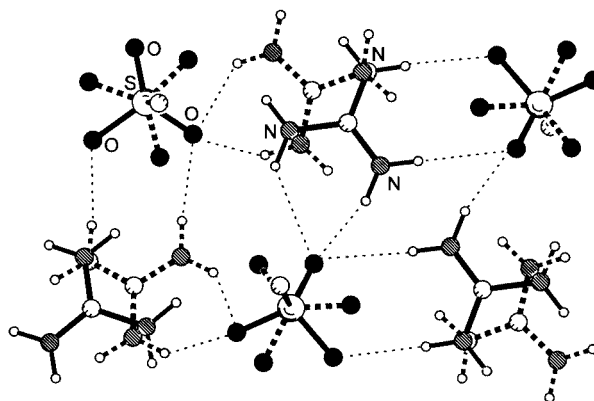
Keywords: Heterometallic complexes / Copper / Zinc / N ligands



1433 A. D. Burrows,* R. W. Harrington, M. F. Mahon, S. J. Teat

Structural Manipulation of Hydrogen Bond Networks Using Sulfonated Phosphane Ligands and Their Complexes: Competition and Interplay Between Strong and Weak Hydrogen Bonds

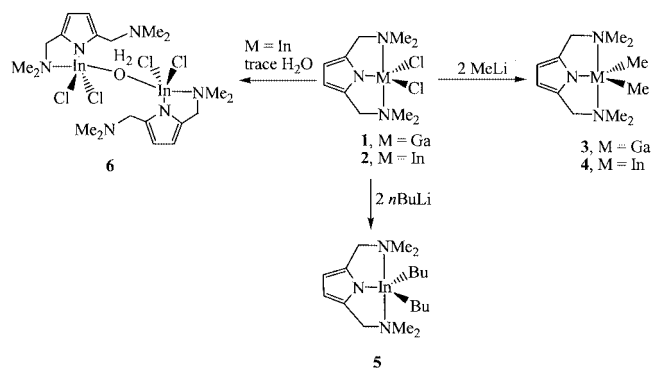
Keywords: Crystal engineering / Phosphane ligands / Hydrogen bonds / X-ray crystal structures



1440 P.-C. Kuo, J.-H. Huang,* C.-H. Hung,
G.-H. Lee, S.-M. Peng

Synthesis and Characterization of Five-Coordinate Gallium and Indium Complexes Stabilized by Tridentate, Substituted Pyrrole Ligands

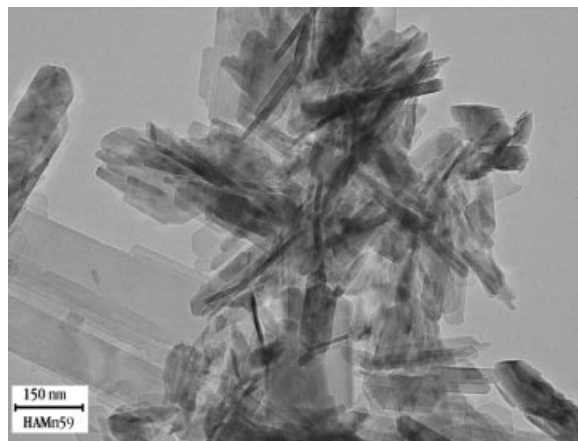
Keywords: Gallium / Indium / N ligands / Bridging ligands



1445 I. Mayer,* O. Jacobsohn, T. Niazov,
J. Werckmann, M. Iliescu,
M. Richard-Plouet, O. Burghaus, D. Reinen

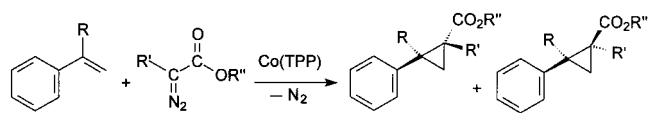
Manganese in Precipitated Hydroxyapatites

Keywords: Manganese / Hydroxyapatite / EPR spectroscopy / Thermal properties



1452 A. Penoni, R. Wanke, S. Tollari, E. Gallo,
D. Musella, F. Ragaini, F. Demartin,
S. Cenini*

Cyclopropanation of Olefins with Diazoalkanes, Catalyzed by Co^{II} (porphyrin) Complexes – A Synthetic and Mechanistic Investigation and the Molecular Structure of Co^{III} (TPP)($\text{CH}_2\text{CO}_2\text{Et}$) (TPP = Dianion of *meso*-Tetraphenylporphyrin)



Keywords: Cobalt / Cyclopropanation / Olefins / Porphyrinoids

1461 P. Kilian, P. Bhattacharyya,
A. M. Z. Slawin, J. D. Woollins*

Phosphorus-Selenium Heterocycles from the Tetraphospholane $(\text{PhP})_4\text{CH}_2$

Keywords: Phosphanes / Heterocycles / Isomers / Phosphorus / Selenium

