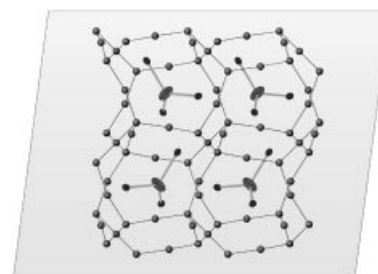


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COVER PICTURE

The cover picture shows the arrangement of the 3-D $[\text{Hg}_7\text{As}_4]^{4+}$ host framework and the AgI_3^{2-} guest anions in a novel supramolecular architecture $[\text{Hg}_7\text{As}_4](\text{AgI}_3)_2$, self-assembled from a heterogeneous system at high temperature. Although the host–guest interaction is weak, it governs both the geometry of the host framework (mercury atoms, blue; arsenic atoms, pink) and guest anions (silver atoms, red; iodine atoms, violet) and the positioning of the guest in the framework cavities. A mutual adjustment of the host and guests results in the unusual off-plane geometry of the AgI_3^{2-} anion. Details are discussed in the article of A. V. Shevelkov et al. on p. 1053 ff.



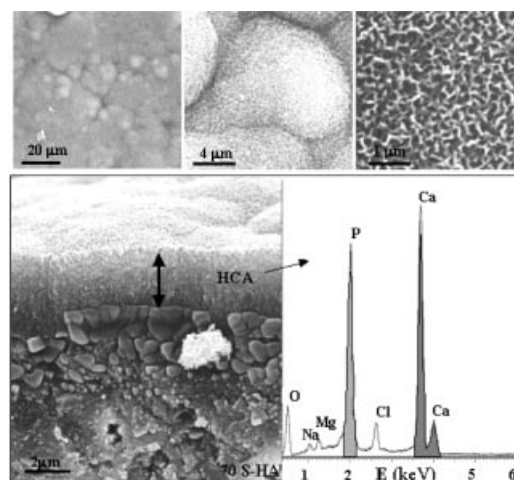
MICROREVIEW

Contents

1029 M. Vallet-Regí,* C. V. Ragel,
 A. J. Salinas

Glasses with Medical Applications

Keywords: Glasses / Materials science / Organic-inorganic hybrid composites / Metallic coatings / Textural properties

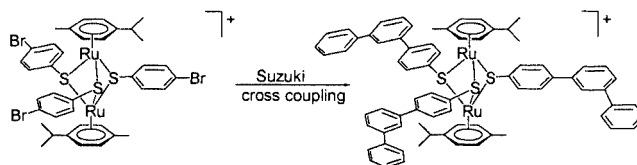


SHORT COMMUNICATIONS

1043 F. Chérioux,* B. Therrien, G. Süß-Fink

First Star-Like Oligophenylene Molecules Containing a Dinuclear Organometallic Core

Keywords: Rhodium / Ruthenium / Oligomerization / Oligophenylene

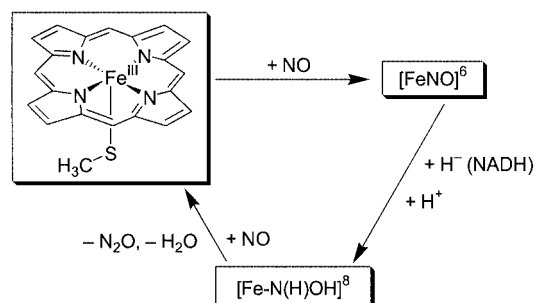


1048 R. Silaghi-Dumitrescu



Nitric Oxide Reduction by Heme-Thiolate Enzymes (P450_{nor}): A Reevaluation of the Mechanism

Keywords: Nitrogen oxides / Enzymes / Heme proteins / Density functional calculations / Bioinorganic chemistry

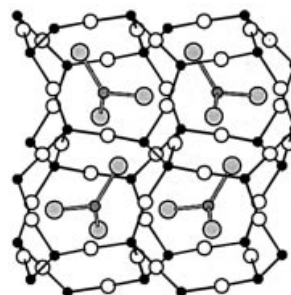


FULL PAPERS

1053 A. V. Olenov, A. I. Baranov,
O. S. Olenova, I. I. Vorontsov,
M. Y. Antipin, A. V. Shevelkov*

Synthesis, Crystal and Electronic Structure of [Hg₇As₄](AgI₃)₂, a Novel Supramolecular Complex with the Off-Plane AgI₃²⁻ Guest Anion

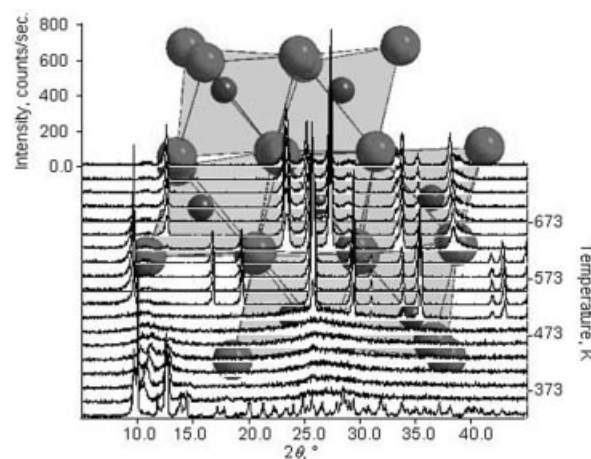
Keywords: Supramolecular chemistry / Inorganic chemistry / Mercury / Silver / Host-guest interactions



1058 J. Wienold, R. E. Jentoft, T. Ressler*

Structural Investigation of the Thermal Decomposition of Ammonium Heptamolybdate by in situ XAFS and XRD

Keywords: X-ray absorption spectroscopy / X-ray diffraction / Molybdenum / Polyoxometalates

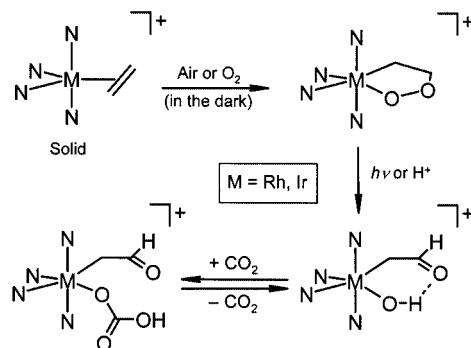


- 1072** M. Krom, T. P. J. Peters, R. G. E. Coumans,
T. J. J. Sciarone, J. Hoogboom,
S. I. ter Beek, P. P. J. Schlebos,
J. M. M. Smits, R. de Gelder, A. W. Gal*



3-Metalla-1,2-dioxolanes and Their Reactivity

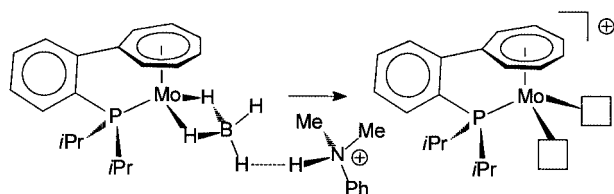
Keywords: Formylmethyl complexes / Metallacycles / N ligands / Oxygenations / Rhodium



- 1088** M. Tamm,* B. Dreßel, T. Lügger,
R. Fröhlich, S. Grimme

Chelate Complexes of Functionalized Cycloheptatrienyl Ligands: Molybdenum Complexes with Linked Cycloheptatrienyl-Phosphane Ligands and Their Use in Catalytic Carbon–Carbon Bond Formation

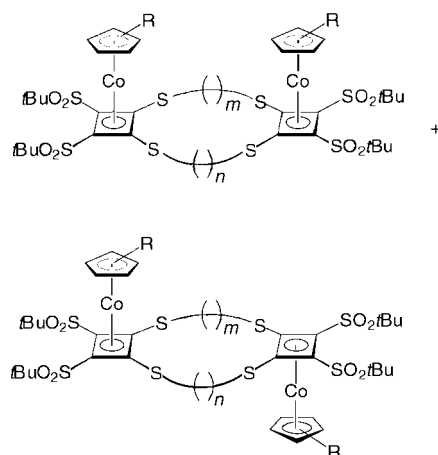
Keywords: Alkyne ligands / C–C coupling / Cycloheptatrienyl ligands / Density functional calculations / Hydride ligands



- 1099** C. Benisch, D. B. Werz, R. Gleiter,*
F. Rominger, T. Oeser

Modes of Reactivity of Cyclic Diynes: Probing the *syn/anti* Selectivity of Tetrathiacycloalkadiynes and Mono(alkyne)cobalt Complexes

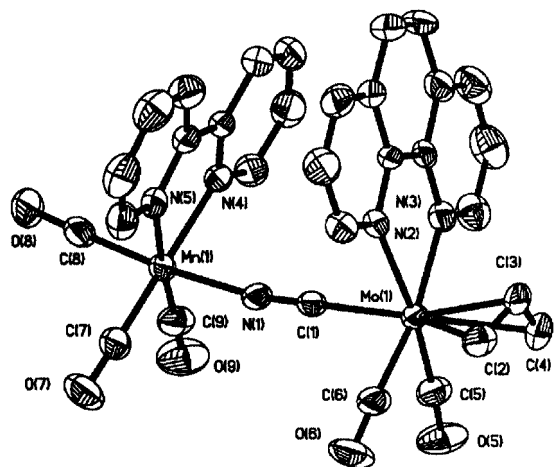
Keywords: Alkynes / Cobalt / Cyclobutadiene complexes / *syn-anti* selectivity



- 1113** J. Pérez,* E. Hevia, L. Riera, V. Riera,
S. García-Granda, E. García-Rodríguez,
D. Miguel

Mono- and Dimetallic Cyano Complexes with {Mo(η^3 -allyl)(CO)₂(N–N)} Fragments

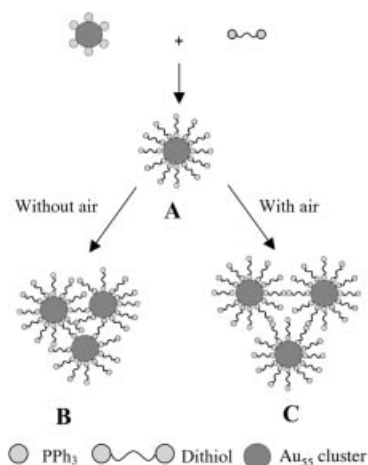
Keywords: Allylic compounds / Cyanides / Heterometallic compounds / Molybdenum / Manganese / Rhenium



1121 V. Torma, O. Vidoni, U. Simon,
G. Schmid*

Charge-Transfer Mechanisms between Gold Clusters

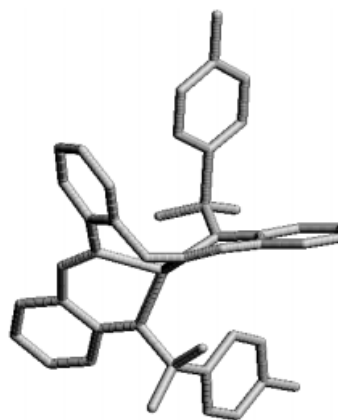
Keywords: Gold / Cluster compounds / Charge transfer / Activation energy / Conductivity



1128 M. Vázquez, M. R. Bermejo,* M. Fondo,
A. M. García-Deibe, J. Sanmartín,
R. Pedrido, L. Sorace, D. Gatteschi

Monohelical Complexes of a Novel Asymmetric N₄ Schiff Base: Unfamiliar Tetrahedral Environments of Manganese(II) and Iron(II) Helicates

Keywords: Electrochemistry / Helical structures / Schiff bases / Transition metals

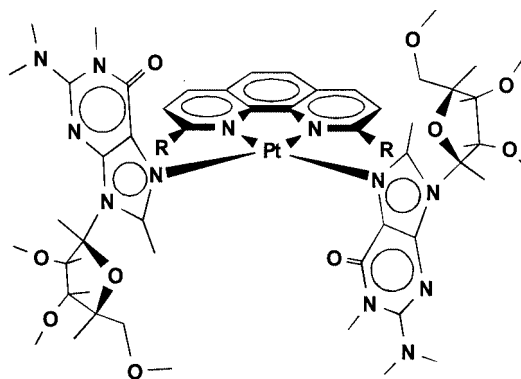


1136 N. Margiotta, P. Papadia, F. P. Fanizzi,
G. Natile*



Mono- and Bis-Guanosine Adducts of Platinum Complexes with Carrier Ligands Having In-Plane Steric Bulk: The Case of 1,10-Phenanthroline and 2,9-Dimethyl-1,10-phenanthroline

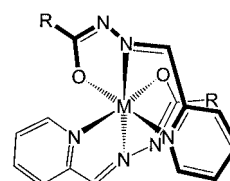
Keywords: Platinum / Nucleobases / Antitumour agents / Atropisomerism / NMR spectroscopy



1145 C. M. Armstrong, P. V. Bernhardt,* P. Chin,
D. R. Richardson

Structural Variations and Formation Constants of First-Row Transition Metal Complexes of Biologically Active Aroylhydrazones

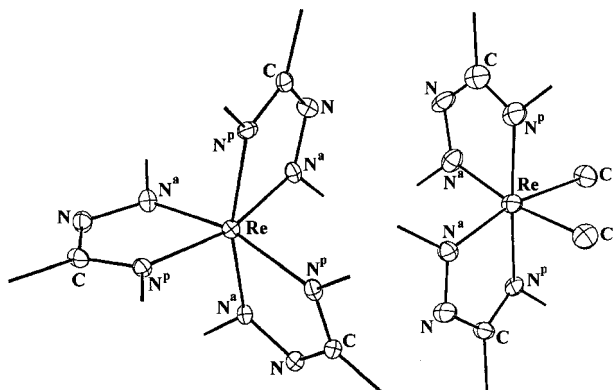
Keywords: Hydrazones / Structure elucidation / Transition metals / N ligands



1157 S. Sengupta, I. Chakraborty,
A. Chakravorty*

New Rhenium(I) and Rhenium(II) Species
Assembled by Stereospecific Azopyridine
Chelation

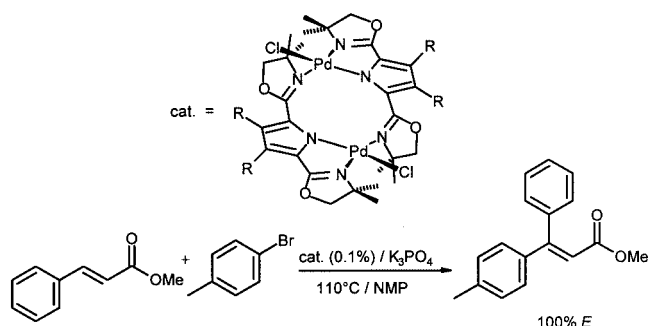
Keywords: Rhenium / N ligands / Chelates / Back-
bonding / Isomer specificity



1161 C. Mazet, L. H. Gade*

[Bis(oxazolinyl)pyrrole]palladium Complexes as
Catalysts in Heck- and Suzuki-Type C–C
Coupling Reactions

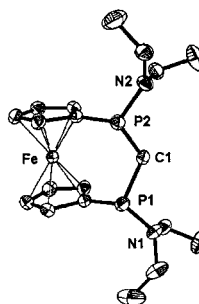
Keywords: Catalysis / Helical structures / N ligands /
Palladium / Suzuki reaction / Heck reaction



1169 I. Shevchenko,* D. Shakhnin, H. Zhang,
M. Lattman, G.-V. Röschenthaler

The Synthesis and Structure of P–C–P
Bridged Ferrocene

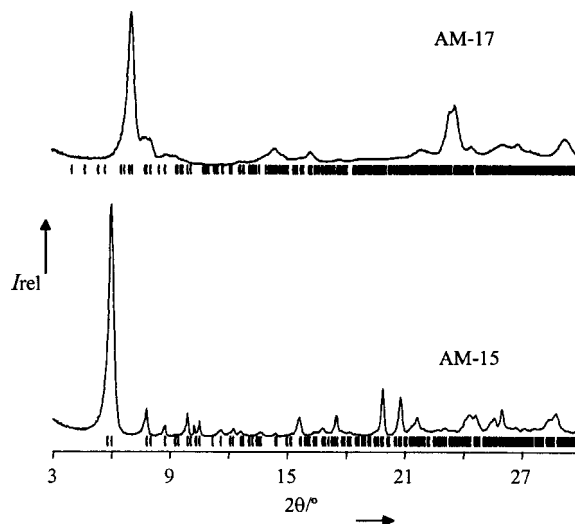
Keywords: Sandwich complexes / Phosphane ligands /
Asymmetry / Bridging ligands



1175 P. Brandão, A. Valente, A. Philippou,
A. Ferreira, M. W. Anderson, J. Rocha*

Hydrothermal Synthesis and Characterisation of
Two Novel Large-Pore Framework Vanadium
Silicates

Keywords: Microporous materials / Silicates /
Vanadium / Catalysis / Hydrothermal
synthesis

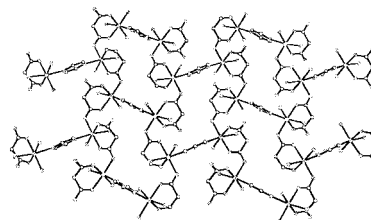


1181 X. Zhang, C. Lu,* Q. Zhang, S. Lu,
W. Yang, J. Liu, H. Zhuang



Synthesis, Structure and Characterization of Two New Complexes $[\text{Cu}_2(\text{C}_3\text{H}_2\text{O}_4)_2(\text{C}_4\text{H}_4\text{N}_2)] \cdot 2\text{H}_2\text{O}$ and $[\text{Zn}_2(\text{OH})_2(\text{C}_3\text{H}_2\text{O}_4)_2(\text{C}_4\text{H}_4\text{N}_2)]$

Keywords: Copper / N ligands / Supramolecular chemistry / Magnetic properties / Conducting materials

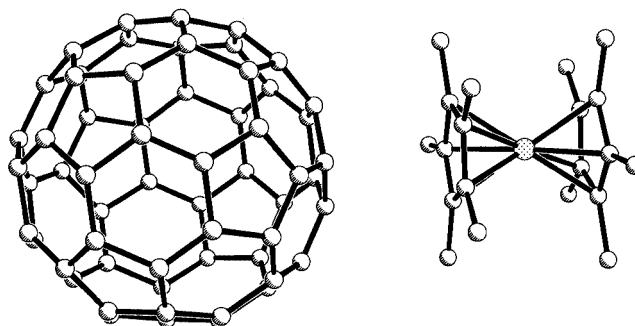


1186 A. Arrais, E. Diana, R. Gobetto,
M. Milanesio, D. Viterbo,
P. L. Stanghellini*



Solid-State Adducts between C_{60} and Decamethylferrocene

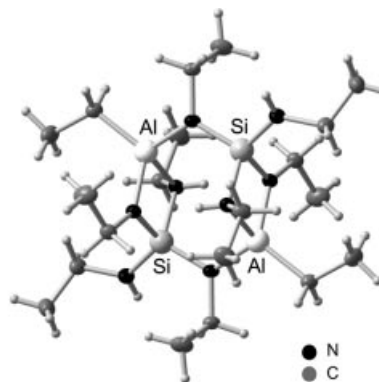
Keywords: Donor-acceptor systems / Fullerenes / Infrared spectroscopy / Raman spectroscopy / Sandwich complexes



1193 S. Kaskel,* C. W. Lehmann, G. Chaplais,
K. Schlichte, M. Khanna

Synthesis, Structure, and Characterization of $[\text{RAl}(\mu\text{-NHet})(\mu\text{-NEt})_2\text{Si}(\text{NHet})_2]_2$ (R = Me, Et)

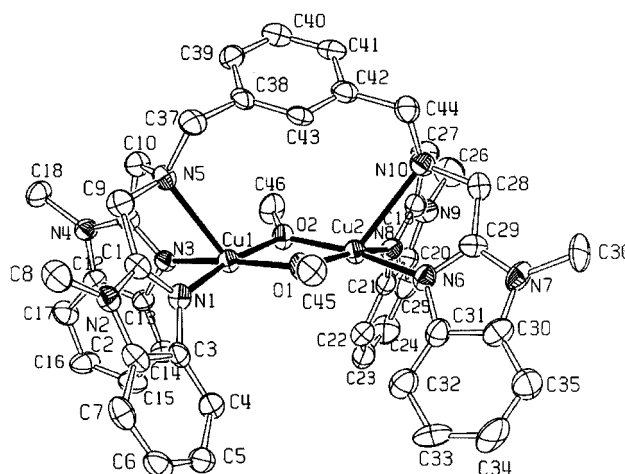
Keywords: Aluminium / Nitrogen / Precursor development / Silicon



1197 G. Battaini, L. Casella,* M. Gullotti,
E. Monzani, G. Nardin, A. Perotti,
L. Randaccio, L. Santagostini,
F. W. Heinemann, S. Schindler

Structure and Reactivity Studies on Dinuclear Copper Complexes of the Ligand α, α' -Bis{bis[1-(1'-methyl-2'-benzimidazolyl)methyl]amino}-*m*-xylene

Keywords: Bioinorganic chemistry / Copper / Dioxygen activation / Enzyme models

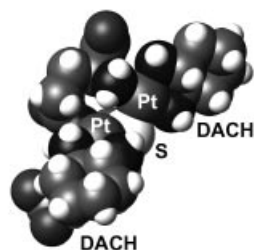


- 1206** S. Fakih, V. P. Munk, M. A. Shipman,
P. del S. Murdoch, J. A. Parkinson,
P. J. Sadler*



Novel Adducts of the Anticancer Drug Oxaliplatin with Glutathione and Redox Reactions with Glutathione Disulfide

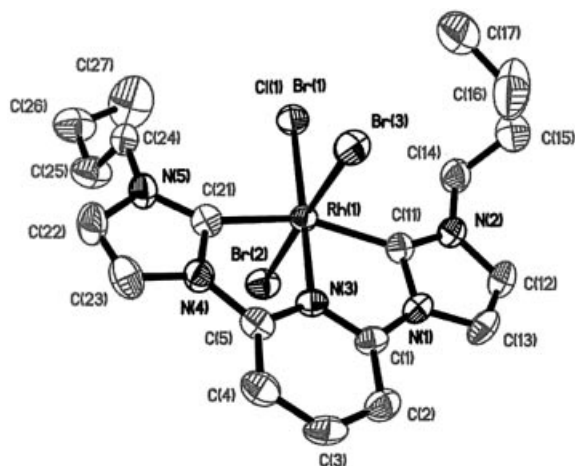
Keywords: Antitumour agents / Platinum / S ligands / Peptides / Redox chemistry



- 1215** M. Poyatos, E. Mas-Marzá, J. A. Mata,
M. Sanaú, E. Peris*

Synthesis, Reactivity, Crystal Structures and Catalytic Activity of New Chelating Bisimidazolium-Carbene Complexes of Rh

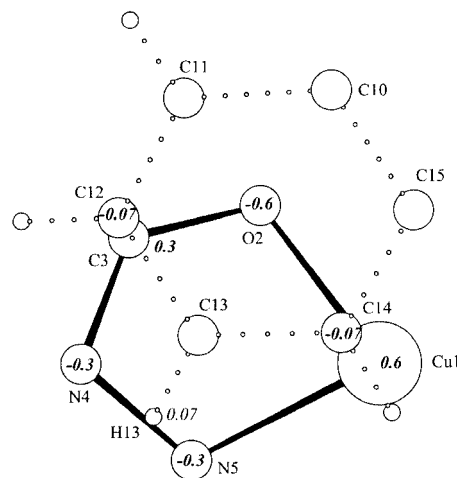
Keywords: Heterocycles / Carbenes / Rhodium / Homogeneous catalysis



- 1222** Z. D. Tomic, V. M. Leovac, S. V. Pokorni,
D. Zobel, S. D. Zarić*

Crystal Structure of Bis[acetone-1-naphthoyl-hydrazinato(−1)]copper(II) and Investigations of Intermolecular Interactions

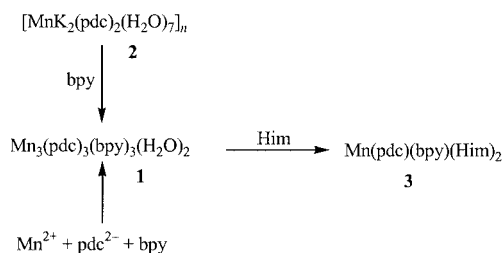
Keywords: Pi interactions / Stacking interactions / Copper / Chelates



- 1227** C. Ma, C. Chen, Q. Liu,* D. Liao, L. Li

The First Structurally Characterized Trinuclear Dipicolinato Manganese Complex and its Conversion into a Mononuclear Species by Ligand Substitution

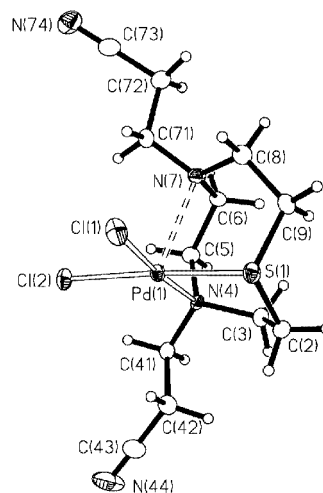
Keywords: Manganese / N ligands / Cluster compounds



1232 M. Arca, A. J. Blake, V. Lippolis,*
D. R. Montesu, J. McMaster, L. Tei,
M. Schröder*

Coordination Chemistry of Nitrile and Amino
Pendant Arm Derivatives of [9]aneN₂S and
[9]aneNS₂ with Pd^{II} and Cu^{II}

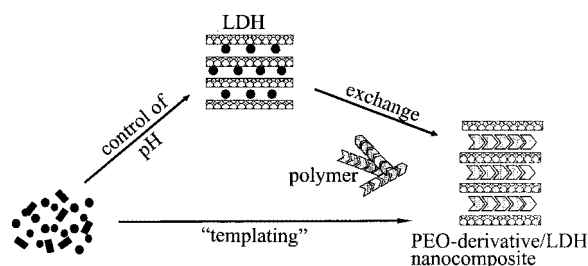
Keywords: Macrocycles / Palladium / Copper /
N ligands / S ligands



1242 F. Leroux, P. Aranda,* J.-P. Besse,
E. Ruiz-Hitzky

Intercalation of Poly(Ethylene Oxide) Deriva-
tives into Layered Double Hydroxides

Keywords: Layered compounds / Intercalations /
Nanostructures



CORRECTION

1253 R. W. Saalfrank,* B. Demleitner, H. Glaser,
H. Maid, S. Reihs, W. Bauer, M. Maluenga,
F. Hampel, M. Teichert, H. Krautscheid

Synthesis of Tetrahemispheraplexes with Am-
monium, Alkylammonium or Alkaline Metal
Ions as Exohedral Guests via Self-Assembly or
Guest Exchange

Keywords: Cage compounds / Supramolecular
chemistry / Magnesium / Host-guest
chemistry