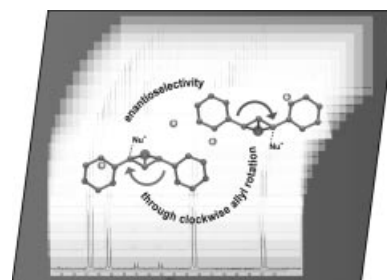


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COVER PICTURE

The cover picture shows the low-temperature ^{31}P NMR signals and simplified 3D representations of *exo* and *endo* isomers of an $(\eta^3\text{-1,3-diphenylallyl})\text{palladium(II)}$ complex in which the metal center is coordinated by a chiral xanthene-derived diphospholane ligand. Such complexes are intermediates in palladium-catalyzed allylic substitution, and their structures determined by 2D NMR spectroscopy allow for the interpretation of the enantioselectivities of the catalytic process in terms of preferential rotation of the allyl group. Key methyl groups of the chiral ligand that govern this rotation are represented by yellow spheres in the background. Details on these complexes and others and on asymmetric catalysis can be found in the article by J. A. Osborn, L. Barloy et al. on p. 3987ff. The authors are indebted to Bernard Lafleuril (CURRI-Visu) for his help concerning the artwork of the cover picture.



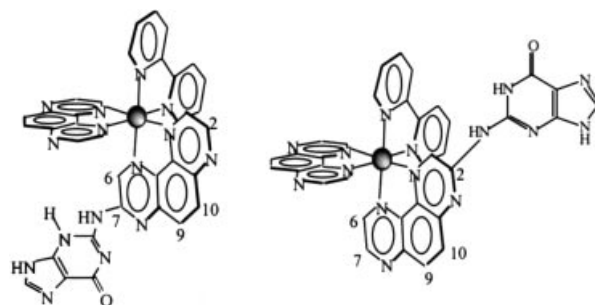
MICROREVIEW

Contents

3971 R. Blasius, C. Moucheron, A. Kirsch-De Mesmaeker*

Photoadducts of Metallic Compounds with
 Nucleic Acids – Role Played by the Photoelectron
 Transfer Process and by the TAP and HAT
 Ligands in the Ru^{II} Complexes

Keywords: Photoadducts / Electron transfer /
 Ruthenium(II) complexes / GMP / DNA



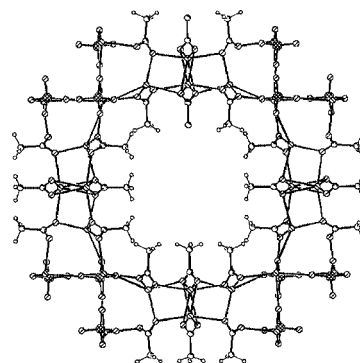
SHORT COMMUNICATIONS

- 3981** A. Lavalette, G. A. Lawrance,
N. W. Alcock,* M. J. Hannon*



Channel Structures in a Simple Inorganic Salt –
An Open Framework Formed through Structural
Integration of Distinct Sodium Acetate and
Sodium Perchlorate Domains

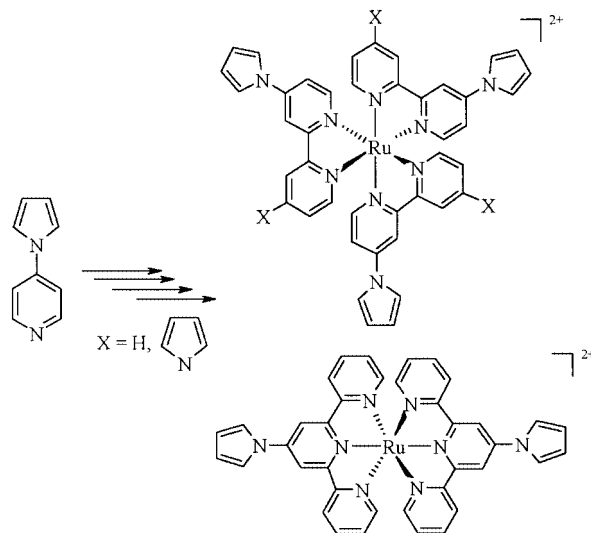
Keywords: Channel structures / Microporous materials /
Crystal engineering / Zeolite analogues



- 3984** D. Martineau, P. Gros,* M. Beley,*
Y. Fort

New Ruthenium Complexes with 4-(1*H*-Pyrrol-1-yl)-
Substituted Polypyridine Ligands – Electro-
chemical and Spectroscopic Properties

Keywords: Nitrogen heterocycles / Ruthenium /
N donor ligands

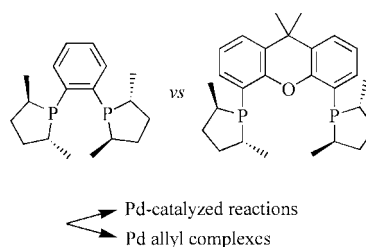


FULL PAPERS

- 3987** G. Malaisé, S. Ramdeehul, J. A. Osborn,*
L. Barloy,* N. Kyritsakas, R. Graff

Palladium Complexes with Chiral Diphospholane
Ligands: Comparative Catalytic Properties
and Analysis of (η^3 -Allyl)palladium Species

Keywords: Palladium / Allyl ligands / Reaction inter-
mediates / Asymmetric catalysis / Enantio-
selectivity

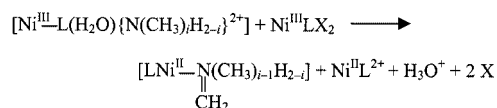


- 4002** D. Shamir,* I. Zilbermann, E. Maimon,
D. Meyerstein



Oxidation of CH_3NH_2 and $(\text{CH}_3)_2\text{NH}$ by
 $\text{Ni}^{\text{III}}(\text{cyclam})(\text{H}_2\text{O})_2^{3+}$ in Aqueous Solutions

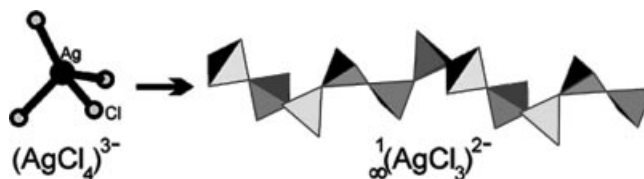
Keywords: Pendant primary amines / Amines /
Cyclam / Nickel / Electrocatalysts



4006 O. S. Oleneva, A. V. Olenov, E. V. Dikarev, A. V. Shevelkov*

From Discrete to Extended Guests: A Novel Supramolecular $[\text{Hg}_6\text{As}_4](\text{AgCl}_3)_2$ Assembly Featuring One-Dimensional $(\text{AgCl}_3)^{2-}$ Anions

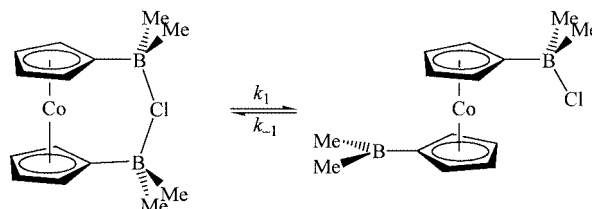
Keywords: Arsenic / Host–guest systems / Mercury / Silver / Supramolecular chemistry



4011 G. E. Herberich,* U. Englert, A. Fischer, D. Wiebelhaus

Anion Binding of 1,1'-Bis(dialkylboryl)cobaltocenium Complexes – Structures of $[\text{Co}\{\text{C}_5\text{H}_4(\text{BMe}_2)\}_2]\text{PF}_6$, $\text{Co}[\text{C}_5\text{H}_4(\text{BMe}_2)][\text{C}_5\text{H}_4(\text{BMe}_2\text{Cl})]$, $\text{Co}[\text{C}_5\text{H}_4(\text{B}i\text{Pr}_2)]_2(\mu\text{-F})$ and $\text{NMe}_4[\text{Co}\{\text{C}_5\text{H}_4(\text{B}i\text{Pr}_2\text{F})\}_2]$

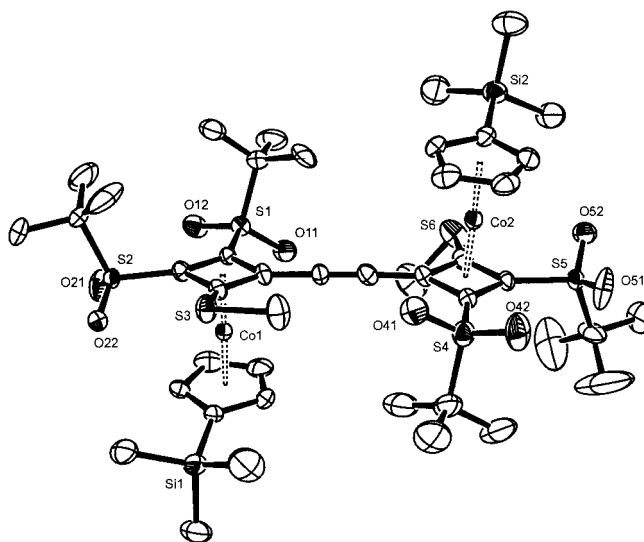
Keywords: Anion binding / Borates / Boron / Cobalt / Sandwich complexes



4021 D. B. Werz, R. Gleiter,* F. Rominger

Mono(alkyne)cobalt Complexes and Electron-Rich Alkynes – The Formation of an Alkyne-Bridged Dinuclear Cobalt Complex by a One-Pot Procedure

Keywords: Alkynes / Chalcogens / Cobalt / Cyclobutadiene complexes

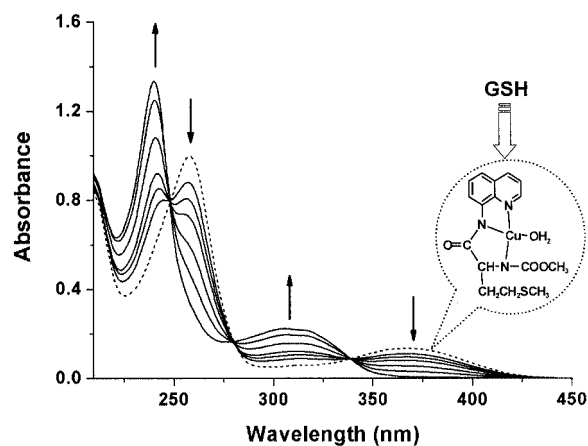


4028 S. Zhang, C. Tu, X. Wang, Z. Yang, J. Zhang, L. Lin, J. Ding, Z. Guo*



Novel Cytotoxic Copper(II) Complexes of 8-Aminoquinoline Derivatives: Crystal Structure and Different Reactivity towards Glutathione

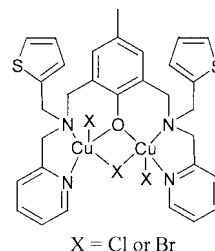
Keywords: Antitumor agents / Bioinorganic chemistry / Copper / N ligands



4036

I. A. Koval, M. Huisman, A. F. Stassen,
P. Gamez, O. Roubeau, C. Belle,*
J.-L. Pierre, E. Saint-Aman, M. Lüken,
B. Krebs, M. Lutz, A. L. Spek, J. Reedijk*

Dinuclear Cu^{II} Complexes with a New Phenol-Based Ligand Bearing Pyridine and Thiophene Substituents: Synthesis, Characterization and Interaction with Catechol Substrates

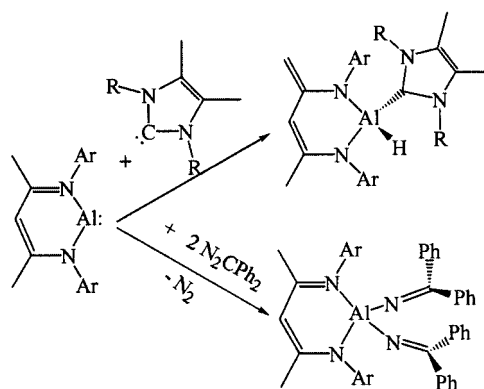


Keywords: Copper / Dinuclear complexes / Catechol oxidase / Magnetochemistry / Electrochemistry

4046

H. Zhu, J. Chai, A. Stasch, H. W. Roesky,*
T. Blunck, D. Vidovic, J. Magull,
H.-G. Schmidt, M. Noltemeyer

Reactions of the Aluminum(I) Monomer LAl [$\text{L} = \text{HC}\{(\text{CMe})(\text{NAr})\}_2$; $\text{Ar} = 2,6\text{-iPr}_2\text{C}_6\text{H}_3$] with Imidazol-2-ylidene and Diphenyldiazomethane. A Hydrogen Transfer from the L Ligand to the Central Aluminum Atom and Formation of the Diiminylaluminum Compound $\text{LAl}(\text{N}=\text{CPh}_2)_2$

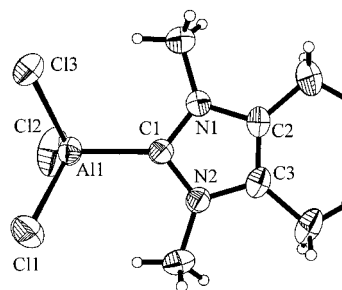


Keywords: Aluminum / Carbenes / Diazo compounds / Hydrogen transfer / N ligands

4052

A. Stasch, S. Singh, H. W. Roesky,*
M. Noltemeyer, H.-G. Schmidt

Adducts of Aluminum and Gallium Trichloride with a *N*-Heterocyclic Carbene and an Adduct of Aluminum Trichloride with a Thione

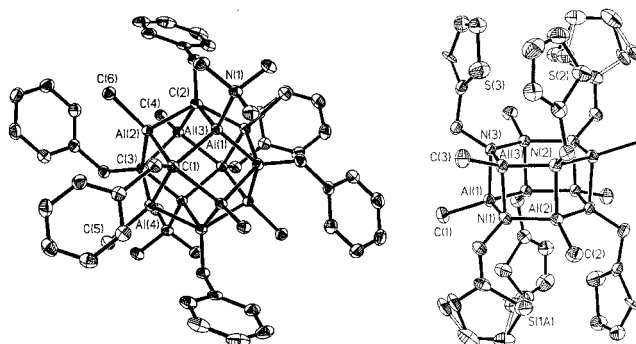


Keywords: Adducts / Aluminum / Carbenes / Gallium / Lewis acids

4056

A. Stasch, S. S. Kumar, V. Jancik,
H. W. Roesky,* J. Magull, M. Noltemeyer

Methyl Substitution of Aluminum–Hydride Bonds in a Carbaalane and an Aluminum Imide



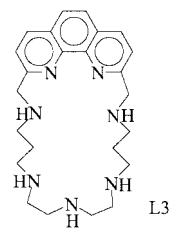
Keywords: Aluminum / Cluster Compounds / Hydrides

- 4061** J. Aguilar, A. Bencini,* E. Berni,
A. Bianchi,* E. García-España,* L. Gil,
A. Mendoza, L. Ruiz-Ramírez, C. Soriano



Dinuclear Zn^{II} Complexes of Polydentate Polyamines as Minimalist Models of Hydrolytic Reactions

Keywords: Enzyme models / Hydrolysis / Macrocycles / N ligands / NMR spectroscopy / Zinc

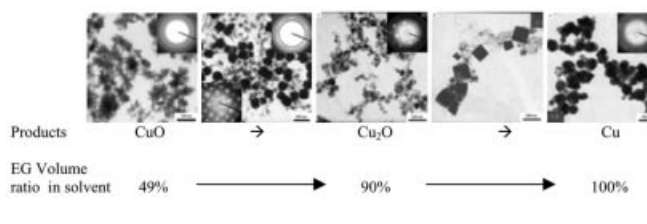


- 4072** Y. Zhao, J.-J. Zhu,* J.-M. Hong, N. Bian,
H.-Y. Chen



Microwave-Induced Polyol-Process Synthesis of Copper and Copper Oxide Nanocrystals with Controllable Morphology

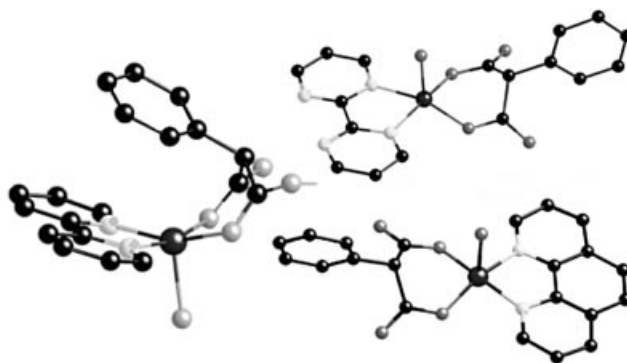
Keywords: Copper / Copper oxides / Microwaves / Nanostructures / UV / Vis spectroscopy



- 4081** J. Pasán, J. Sanchiz, C. Ruiz-Pérez,*
F. Lloret, M. Julve

Phenylmalonate-Containing Copper(II) Complexes: Synthesis, Crystal Structure and Magnetic Properties

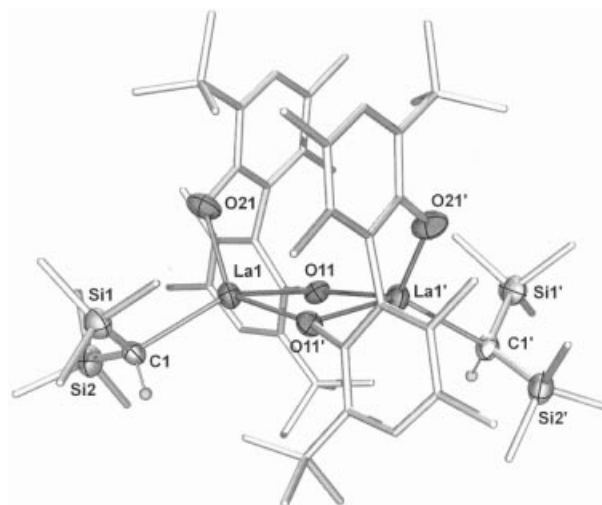
Keywords: Copper / Magnetic properties / N ligands / O ligands



- 4091** D. V. Gribkov, F. Hampel, K. C. Hultsch*

Synthesis and Characterization of Alkyl-lanthanum Biphenolate Complexes as Catalysts for Hydroamination/Cyclization and Hydrosilylation

Keywords: Asymmetric catalysis / Hydroamination / Hydrosilylation / Lanthanum / O ligands

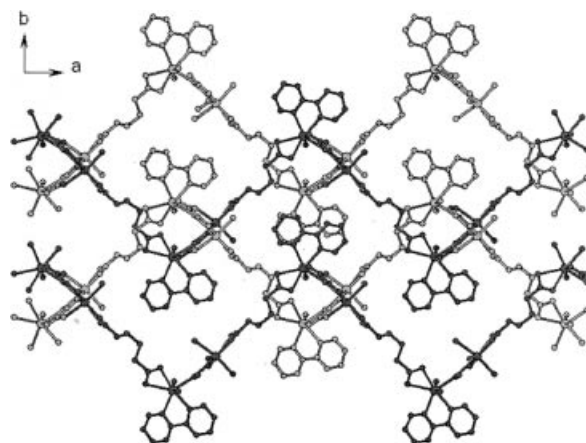


- 4102** N. Hao, E. Shen,* Y.-G. Li, E.-B. Wang,*
C.-W. Hu, L. Xu



Novel Cadmium(II) Adipate Coordination Polymers with Structural Transformation via Oxalate Ligand: Syntheses, Structures and Fluorescence Properties

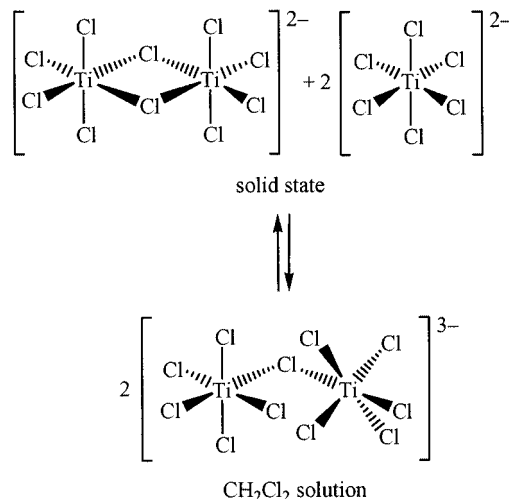
Keywords: Cadmium / Coordination polymers / Fluorescence / Hydrothermal synthesis / Interpenetration



- 4108** E. Robé, J.-C. Daran, S. Vincendeau,
R. Poli*

A New Synthetic Method and Solution Equilibria for the Chlorotitanate(IV) Anions – Evidence for the Existence of a New Species: $[\text{Ti}_2\text{Cl}_{11}]^{3-}$

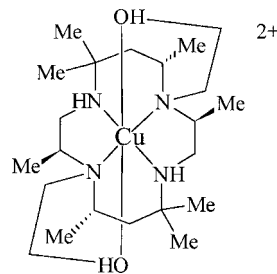
Keywords: Anions / Electrochemistry / Infrared spectroscopy / Titanium



- 4115** T. G. Roy,* S. K. S. Hazari, B. K. Dey,
H. A. Miah, C. Bader, D. Rehder*

Copper(II) and Nickel(II) Complexes of *N,N*-Bis(2-hydroxyethyl)octamethyl-1,4,8,11-tetraazacyclotetradecane

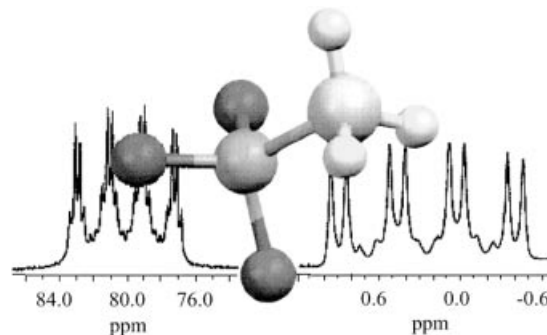
Keywords: Antimicrobial activity / Copper / Macrocyclic ligands / N ligands / Nickel



- 4124** V. Nahum, B. Fischer*

Boranophosphate Salts as an Excellent Mimic of Phosphate Salts: Preparation, Characterization, and Properties

Keywords: Bioisosters / Boranophosphates / NMR spectroscopy / Phosphate mimics

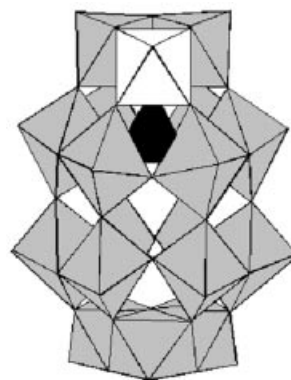


- 4132** I.-M. Mbomekalle, B. Keita, Y. W. Lu,
L. Nadio,* R. Contant, N. Belai, M. T. Pope



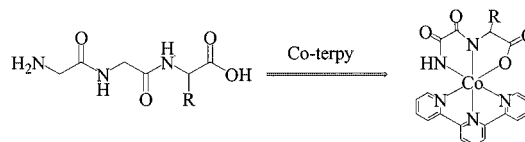
Synthesis and Electrochemistry of the Mono-lacunary Dawson-Type Tungstoarsenate $[\text{H}_4\text{AsW}_{17}\text{O}_{61}]^{11-}$ and Some First-Row Transition-Metal Ion Derivatives

Keywords: Polyoxometalates / Dawson dissymmetrical polyoxometalates / Arsenic / Tungsten / Electrochemistry / Electrocatalysis



- 4140** K. Jitsukawa,* H. Takahashi, R. Hyuga,
H. Arai, H. Masuda*

Sequence-Specific Oxidative Degradation of Tripeptides by a Cobalt(III) Complex Containing a Terpyridine Ligand



Keywords: Cleavage reactions / Cobalt / N ligands / Oxidation / Peptides

CORRECTION

- 4146** P. González-Duarte,* A. Lledós,
R. Mas-Ballesté

Extending The Reaction Landscape of the $\{\text{Pt}(\mu\text{-S})_2\text{Pt}\}$ Core: From Metal Centers to Non-Metallic Electrophiles

Keywords: Platinum / Sulfur / Metalloligand / Nucleophile / Building block