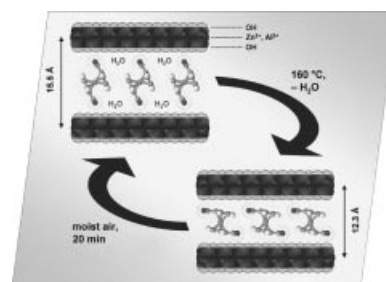


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## COVER PICTURE

**The cover picture shows** how removal of interlayer water from a Zn–Al layered double hydroxide pillared by 1,1'-ferrocenedicarboxylate anions results in reorientation of the guest species and formation of a collapsed phase. Exposure of the collapsed phase to moist air leads to rapid recovery of the expanded phase. A material containing ferrocenecarboxylate anions has also been prepared and found to exhibit a basal spacing of 20.0 Å in the fully hydrated form, consistent with the presence of a bilayer of organometallic guest species. Details of the synthesis and characterization of these compounds are given in the article by M. Pillinger, I. S. Gonçalves et al. on p. 1389ff.



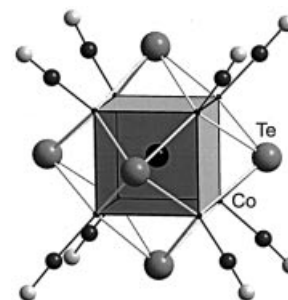
## MICROREVIEW

### Contents

1367 J. Wachter

Metal Telluride Clusters – From Small Molecules to Polyhedral Structures

**Keywords:** Niobium / Tellurium / Polymetallic complexes / Clusters / Structures / Reactivity

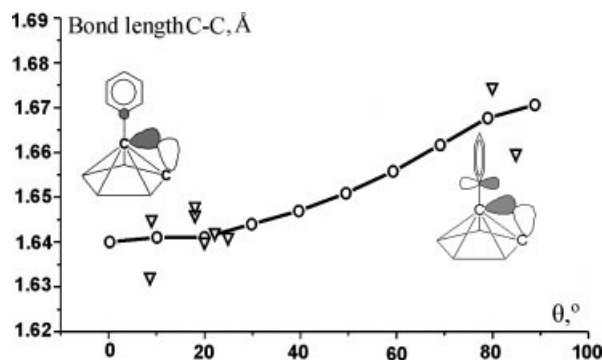


## SHORT COMMUNICATIONS

1379 I. V. Glukhov, M. Yu. Antipin,  
K. A. Lyssenko\*

C–C Bond Variation in the 1-Phenyl-*o*-carborane: Steric versus Electronic Effects

**Keywords:** Ab initio calculations / Atoms in molecules theory / C–C bond elongation / Carboranes / Electron density / Hydrogen bonds

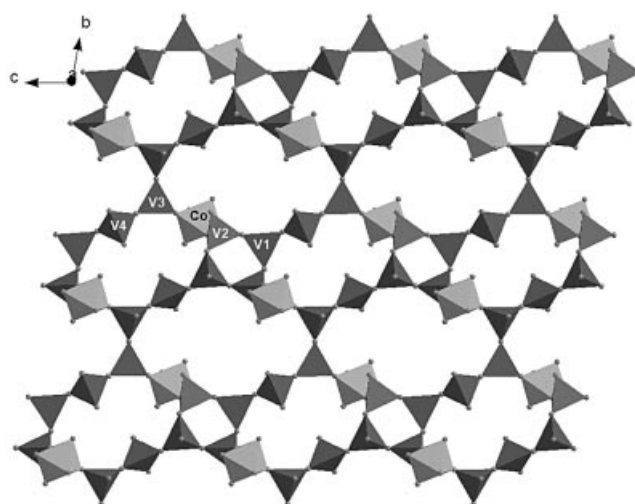


1385 D. Xiao, Y. Xu, Y. Hou, E. Wang,\* S. Wang,  
Y. Li, L. Xu, C. Hu



Synthesis and Structure of an Unprecedented Layered Vanadate Complex Containing Double-Helical Chains:  $[\{Co^{III}(phen)_2\}_2V_8O_{23}]$

**Keywords:** Vanadium / Helical structures / Hydrothermal synthesis

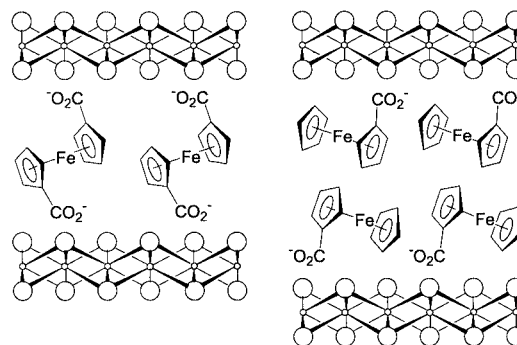


## FULL PAPERS

1389 S. Gago, M. Pillinger,\* T. M. Santos,  
J. Rocha, I. S. Gonçalves\*

Synthesis and Properties of Zn–Al Layered Double Hydroxides Containing Ferrocenecarboxylate Anions

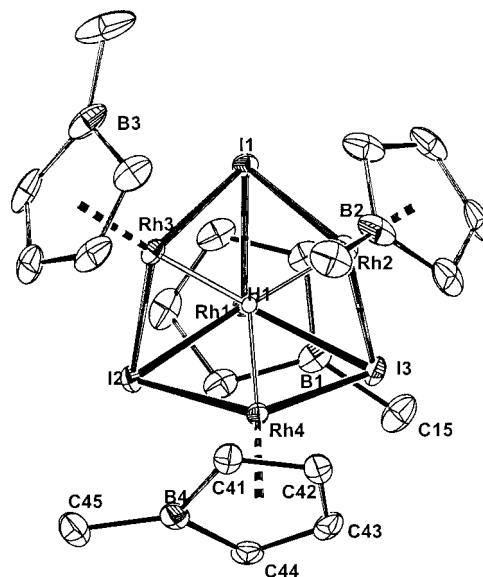
**Keywords:** Hydroxides / Layered compounds / Ferrocene / Host-guest systems / Organic-inorganic hybrid composites



- 1396 G. E. Herberich,\* H. J. Eckenrath,  
T. Wagner, R. Wang

Tetranuclear (Borole)rhodium Clusters with Hydrido and Methylthiolato Ligands – Structures of  $[\{\text{Rh}(\text{C}_4\text{H}_4\text{BMe})\}_4(\mu_3\text{-H})(\mu_3\text{-I})_3]$  and of  $[\{\text{Rh}(\text{C}_4\text{H}_4\text{BPh})\}_2(\mu\text{-SMe})(\mu_3\text{-SMe})_2]$  (2 *Rh–Rh*)

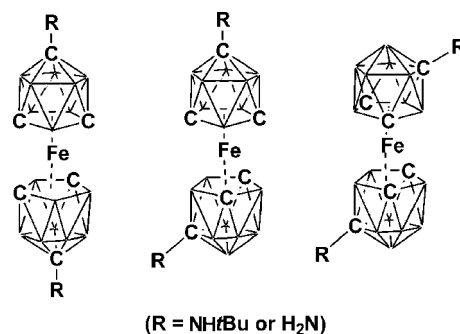
**Keywords:** Boron / Borole / Hydride ligands / Rhodium / S ligands



- 1402 B. Grüner,\* J. Bačkovský, R. Sillanpää,  
R. Kivekäs, I. Císařová, F. Teixidor,  
C. Viñas, B. Štíbr

Amino-Substituted Ferra-bis(tricarbollides) – Metallatricarbaboranes Designed for Linear Molecular Constructions

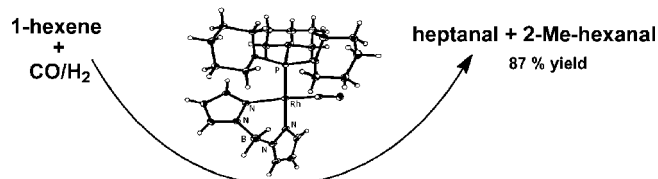
**Keywords:** Boranes / Carboranes / Metallacarboranes / Metallatricarbaboranes / Metallatricarbollides



- 1411 A. M. Trzeciak,\* B. Borak, Z. Ciunik,  
J. J. Ziolkowski, M. Fátima, C. Guedes da  
Silva, A. J. L. Pombeiro

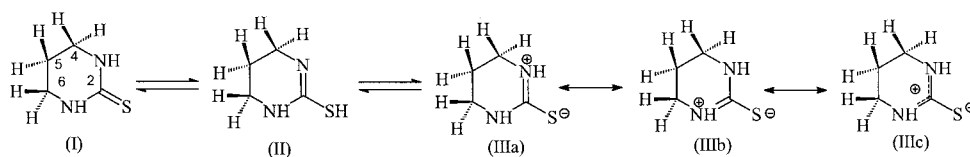
Structure, Electrochemistry and Hydroformylation Catalytic Activity of the Bis(pyrazolylborato)rhodium(I) Complexes  $[\text{RhBp}(\text{CO})\text{P}]$  [P =  $\text{P}(\text{NC}_4\text{H}_4)_3$ ,  $\text{PPh}_3$ ,  $\text{PCy}_3$ ,  $\text{P}(\text{C}_6\text{H}_4\text{OMe-4})_3$ ]

**Keywords:** Rhodium / N ligands / Electrochemistry / X-ray diffraction / Hydroformylation



**1420** P. C. Zachariadis, S. K. Hadjikakou,\*  
N. Hadjiliadis,\* S. Skoulika,  
A. Michaelides, J. Balzarini, E. De Clercq

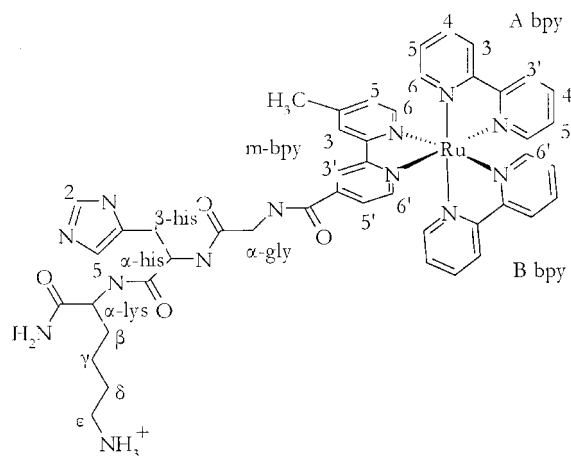
Synthesis, Characterization and in Vitro Study of the Cytostatic and Antiviral Activity of New Polymeric Silver(I) Complexes with Ribbon Structures Derived from the Conjugated Heterocyclic Thioamide 2-Mercapto-3,4,5,6-tetrahydropyrimidine



**Keywords:** Bioinorganic chemistry / Silver / X-ray diffraction / Cytostatic activity / Antiviral activity

**1427** A. Myari, N. Hadjiliadis,\* A. Garoufis\*

Synthesis and Characterization of the Diastereomers  $\Lambda$ - and  $\Delta$ -[Ru(bpy)<sub>2</sub>(m-bpy-Gly-L-His-L-Lys)]Cl<sub>2</sub> – <sup>1</sup>H NMR Studies on their Interactions with the Deoxynucleotide Duplex d[(5'-CGCGAATTCGCG-3')<sub>2</sub>]

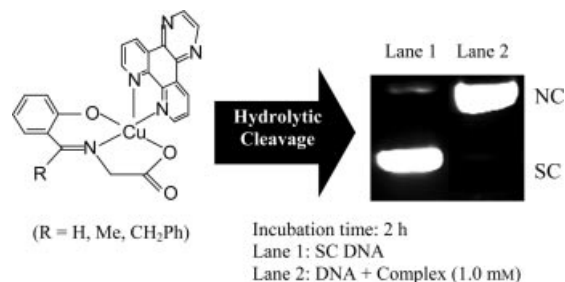


**Keywords:** Metallopeptides / Oligonucleotides / Ruthenium / Chemical nucleases / Groove

**1440** P. A. N. Reddy, M. Nethaji,  
A. R. Chakravarty\*



Hydrolytic Cleavage of DNA by Ternary Amino Acid Schiff Base Copper(II) Complexes Having Planar Heterocyclic Ligands

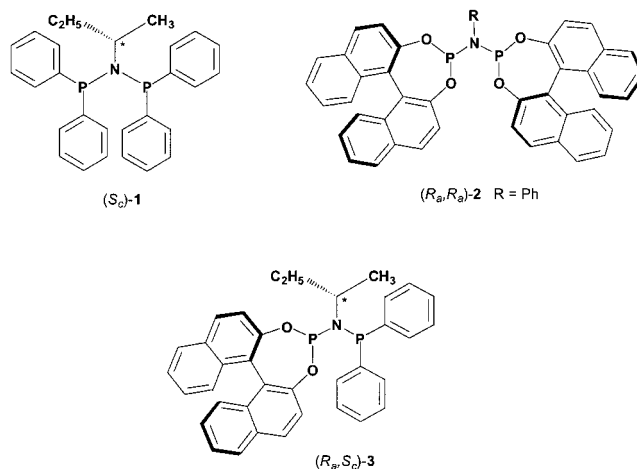


**Keywords:** Copper / Synthetic hydrolase / X-ray diffraction / Schiff bases / Phenanthroline bases

**1447** G. Calabrò, D. Drommi, C. Graiff,  
F. Faraone,\* A. Tiripicchio

Rhodium(I), Palladium(II) and Platinum(II) Coordination Chemistry of the Short-Bite Chiral Ligands (*S<sub>C</sub>*)-*N,N*-Bis(diphenylphosphanyl)-*sec*-butylamine, (*R<sub>a</sub>*,*R<sub>a</sub>*)-*N,N*-Bis(binaphthylphosphonito)phenylamine and (*R<sub>a</sub>*,*S<sub>C</sub>*)-*N*-(Diphenylphosphanyl)-*N*-(binaphthylphosphonito)-*sec*-butylamine

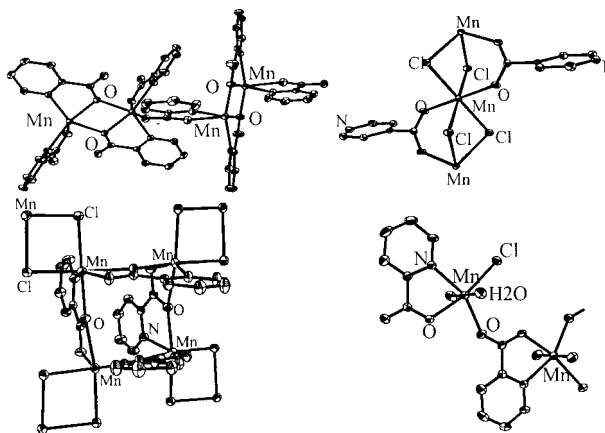
**Keywords:** Chiral ligands / Enantioselectivity / Hydroformylation / Palladium / Platinum / Rhodium



**1454** D. Huang, W. Wang, X. Zhang, C. Chen,  
F. Chen, Q. Liu,\* D. Liao, L. Li, L. Sun

Synthesis, Structural Characterizations and Magnetic Properties of a Series of Mono-, Di- and Polynuclear Manganese Pyridinecarboxylate Compounds

**Keywords:** Carboxylate ligands / Coordination polymers / Magnetic properties / Manganese / X-ray diffraction

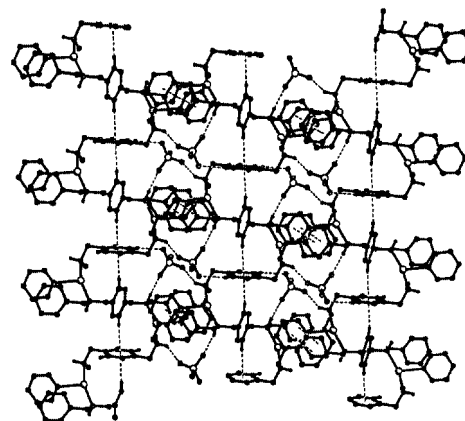


**1465** H.-F. Zhu, L.-Y. Kong, T. Okamura,  
J. Fan, W.-Y. Sun,\* N. Ueyama



Syntheses, Crystal Structures and Electrospray Mass Spectra of Coordination Polymers of an *N,N'*-Bis(3-pyridylmethyl)-1,4-benzenedis(methylamine) Ligand and Silver(I) Salts

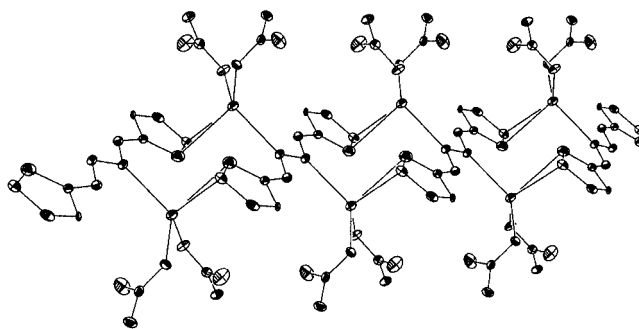
**Keywords:** Coordination polymers / Crystal engineering /  $\pi$  interactions / Silver / Supramolecular chemistry



1474 L. Yang, X. Shan, Q. Chen, Z. Wang,  
J. S. Ma\*

The First Silver(I) Side-On  $\eta^2$ -Coordination  
Network Formed by Self-Assembly of Bis-  
(pyrrol-2-ylmethylene)hydrazine

**Keywords:** Coordination polymers / Hydrogen  
bonding / Schiff bases / Self-assembly /  
Silver



1478 L. Yang, Q. Chen, Y. Li, S. Xiong, G. Li,  
J. S. Ma\*

Self-Assembly of Bis(pyrrol-2-ylmethylene-  
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Bridging  $[-(\text{CH}_2)_n-]$  Spacers and Weak Inter-  
molecular  $\text{C}-\text{H}\cdots\text{Cu}$  Hydrogen Bonding

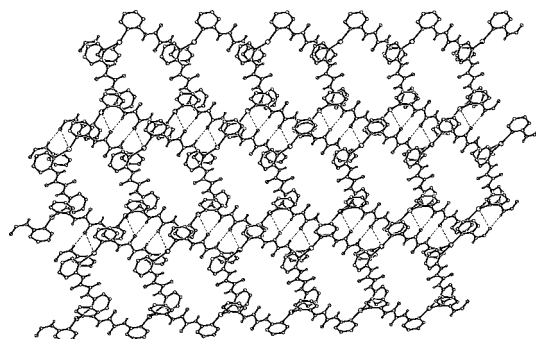
**Keywords:** Copper / Helical structures / Hydrogen  
bonding / N ligands / Schiff bases / Self-  
assembly



1488 Y.-F. Hsu, J.-D. Chen\*

Syntheses and Structural Characterization of  
 $\text{Ag}^{\text{I}}$  Complexes with the  $N,N'$ -Di(2-pyridyl)-  
oxamide Ligand

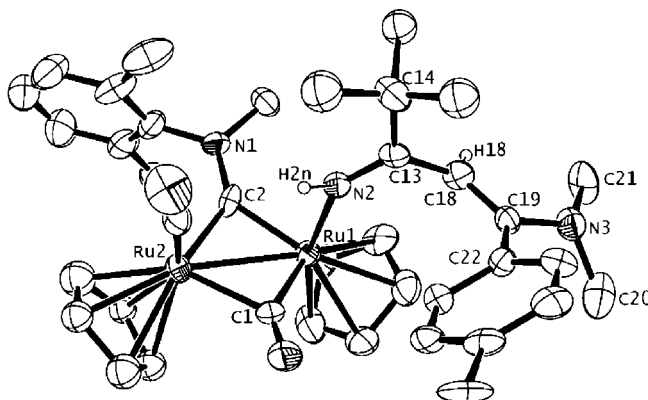
**Keywords:** Silver / Nitrogen heterocycles / Coordi-  
nation polymers / Trinuclear complexes



1494 L. Busetto,\* F. Marchetti, S. Zacchini,  
V. Zanutti

Synthesis, Characterization and Reactivity of  
New ( $\mu$ -Aminocarbyne)diruthenium Complexes  
Containing Alkynylimino Ligands

**Keywords:** Ruthenium / Dinuclear complexes /  
Carbynes / C-C coupling / Alkynylimino  
ligands

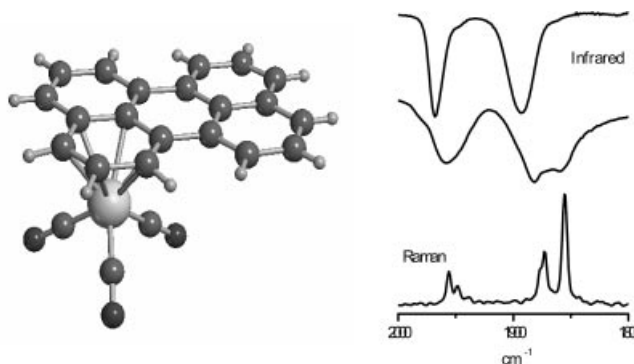


**1505** A. Arrais, E. Diana, G. Gervasio,\*  
R. Gobetto, D. Marabello,  
P. L. Stanghellini\*



Synthesis, Structural and Spectroscopic Characterization of Four  $[(\eta^6\text{-PAH})\text{Cr}(\text{CO})_3]$  Complexes (PAH = Pyrene, Perylene, Chrysene, 1,2-Benzanthracene)

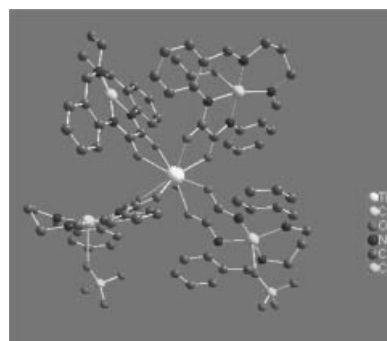
**Keywords:** Macrocyclic ligands / Chromium / X-ray diffraction / NMR spectroscopy / Vibrational spectroscopy / DFT calculations



**1514** Y.-Q. Sun, M. Liang, W. Dong, G.-M. Yang,\* D.-Z. Liao,\* Z.-H. Jiang, S.-P. Yan, P. Cheng

Hydrothermal Syntheses, Crystal Structures, Magnetism and Fluorescence Quenching of Oxamidato-Bridged Pentanuclear  $\text{Cu}^{\text{II}}_4\text{Ln}^{\text{III}}$  Complexes Containing Macrocyclic Ligands (Ln = Eu, Tb) and the Crystal Structure of a Hexanuclear  $\text{Ni}^{\text{II}}_5\text{Sm}^{\text{III}}$  Complex

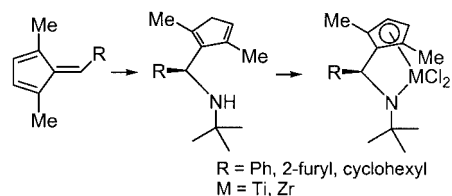
**Keywords:** Hydrothermal synthesis / Macrocyclic ligands / Magnetic properties / Fluorescence



**1522** T. H. Kim, Y. C. Won, B. Y. Lee,\*  
D. M. Shin, Y. K. Chung

$\text{sp}^3\text{-C}^1$ -Bridged 1,3- $\text{Me}_2\text{Cp}$ /Amido Titanium and Zirconium Complexes and Their Reactivities towards Ethylene Polymerization

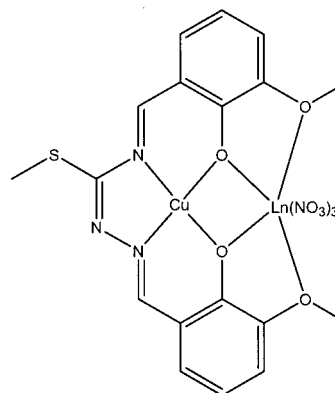
**Keywords:** Cyclopentadienyl / Zirconium / Titanium / Polymerization / Homogeneous catalysis



**1530** J.-P. Costes,\* F. Dahan, G. Novitchi,  
V. Arion, S. Shova, J. Lipkowski

Macrocyclic and Open-Chain  $\text{Cu}^{\text{II}}\text{-4f}$  (4f =  $\text{Gd}^{\text{III}}$ ,  $\text{Ce}^{\text{III}}$ ) Complexes with Planar Diamino Chains: Structures and Magnetic Properties

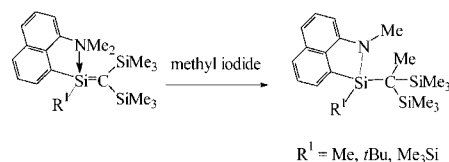
**Keywords:** Heterometallic complexes / Copper / Lanthanides / Macrocyclic ligands / Template synthesis / Magnetic properties





**1538 M. Mickoleit, K. Schmohl, M. Michalik, H. Oehme\***

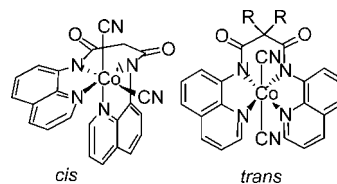
The Synthesis of Stable Intramolecularly Di-alkylamino-Coordinated Silenes and Their Methyl Iodide Induced Isomerization into Cyclic Aminosilanes



**Keywords:** Rearrangement / Silaethenes / Silanes / Silenes / Silicon

**1545 O. Rotthaus, S. LeRoy, A. Tomas, K. M. Barkigia, I. Artaud\***

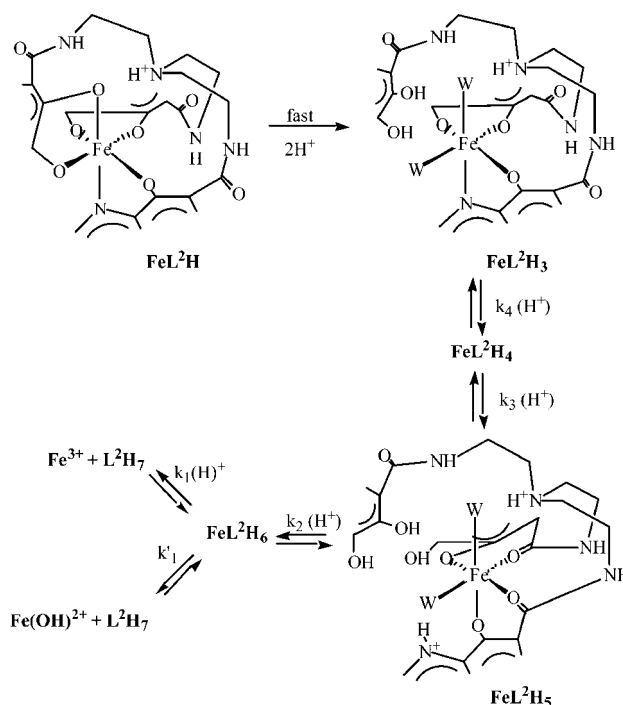
A New Family of Low-Spin  $\text{Co}^{\text{III}}$  Bis(amidate) Complexes with Two *cis* or *trans* Cyanides



**Keywords:** Cobalt / Cyanides / N ligands

**1552 G. Serratrice,\* F. Biaso, F. Thomas, C. Béguin**

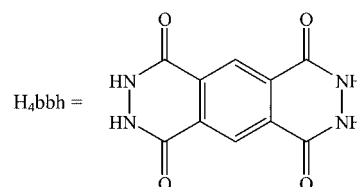
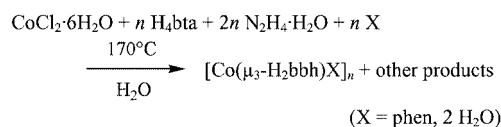
Mechanism of the Stepwise Dissociation of  $\text{Fe}^{\text{III}}$  Complexes with Tripodal Ligands as Siderophore Models



**Keywords:** Tripodal ligands / Iron / Kinetics and mechanisms / Dissociation / Catechol / 8-hydroxyquinoline

**1566 X.-X. Hu, C.-L. Pan, J.-Q. Xu,\* X.-B. Cui, G.-D. Yang, T.-G. Wang**

One- and Three-Dimensional Coordination Polymers Containing Organic Ligands Produced Through in situ Hydrothermal Reactions



**Keywords:** Acylation / Coordination polymers / Hydrothermal synthesis / Cobalt