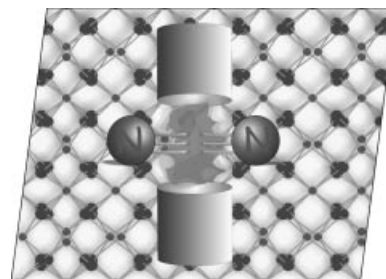


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COVER PICTURE

The cover picture shows symbolically the activation of an N₂ molecule by igniting a plasma discharge in nitrogen gas. The crystal structure of a new tantalum nitride obtained by the plasma-enhanced CVD method is seen in the background. Details are discussed in the article by G. V. Vajenine et al. on p. 3233 ff. We thank the Alexander von Humboldt Foundation for support through a Sofia Kovalevskaja Research Award.



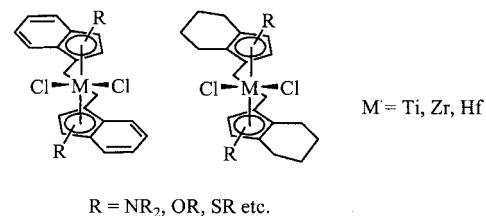
MICROREVIEW

Contents

3201 R. Leino,* P. Lehmus, A. Lehtonen

Heteroatom-Substituted Group 4 Bis(indenyl)-metallocenes

Keywords: Indene / Metallocenes / Zirconium / Olefin
 polymerization

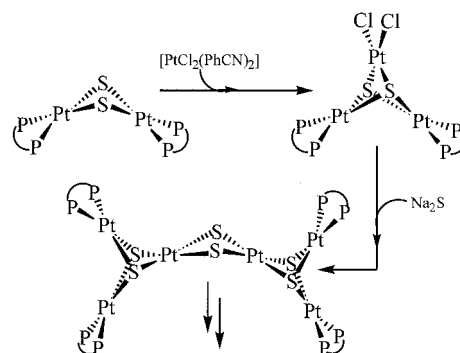


SHORT COMMUNICATIONS

3223 R. Mas-Ballesté, W. Clegg, A. Lledós,*
P. González-Duarte*

A Novel Route to Multinuclear d^8 Metal–Chalcogen Compounds with Nuclearity Control

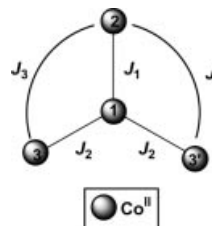
Keywords: Cluster compounds / Platinum / Metallo-ligands / Self-assembly / Sulfur



3228 M. Du, Y.-M. Guo, X.-H. Bu,* J. Ribas

First Tetranuclear Co^{II} Cluster with Planar Triangular Pattern: Crystal Structure and Ferromagnetic Behavior

Keywords: Carboxylic-functionalized diazamesocyclic ligands / Cobalt / Crystal structure / Magnetic properties / Tetranuclear clusters



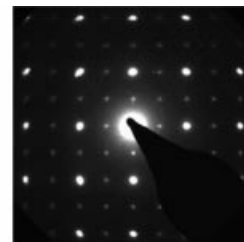
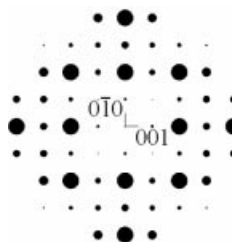
FULL PAPERS

3233 A. Yu. Ganin, L. Kienle, G. V. Vajenine*



Plasma-Enhanced CVD Synthesis and Structural Characterization of Ta_2N_3

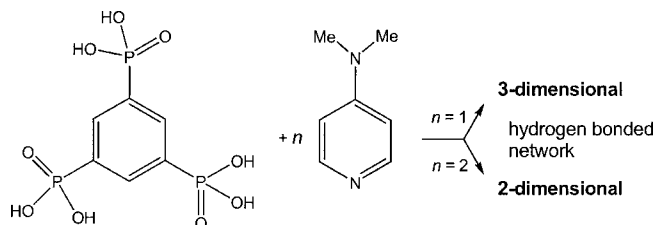
Keywords: Tantalum / Nitrides / Plasma-enhanced chemical vapor deposition / X-ray diffraction / Electron microscopy



3240 M. Mehring

Two- and Three-Dimensional Hydrogen-Bonded Networks Built from 1,3,5- $[(\text{HO})_2(\text{O})\text{P}]_3\text{C}_6\text{H}_3$ and 4-(Dimethylamino)pyridine

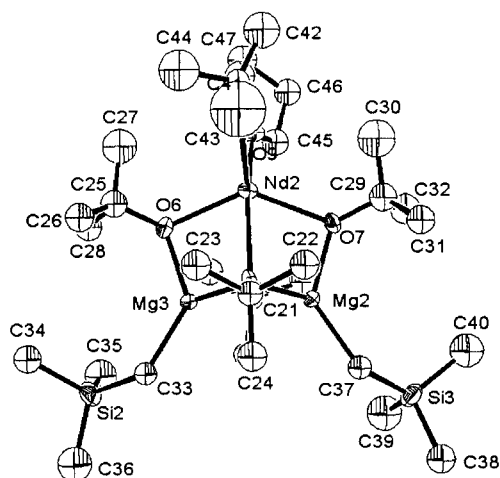
Keywords: Phosphonic acid / Hydrogen bonds / Crystal engineering / Supramolecular chemistry



**3247 J. Gromada, A. Mortreux, G. Nowogrocki,
F. Leising, T. Mathivet, J.-F. Carpentier***

Binary Neodymium Alkoxide/Dialkylmagnesium Polymerization Systems: Studies on the Nature of the Reaction Intermediates and Active Species

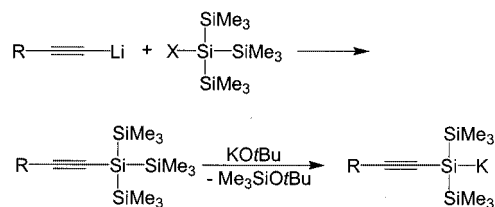
Keywords: Alkoxides / Alkyl complexes / Homogeneous catalysis / Magnesium / Neodymium / Polymerization



**3254 C. Mechtler, M. Zirngast, J. Baumgartner,
C. Marschner***

Synthesis and Reactions of Alkynyl Oligosilanes

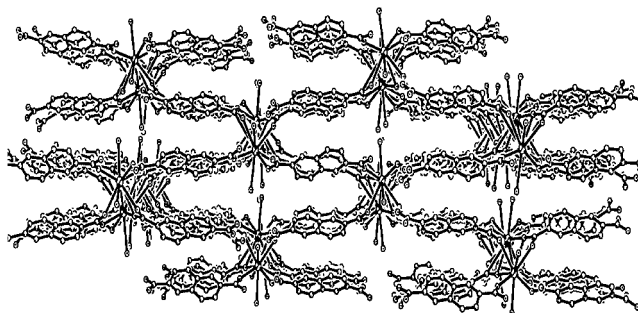
Keywords: Alkynes / Anions / Silanes / Polyanions



**3262 X. Zheng, C. Sun, S. Lu, F. Liao, S. Gao,
L. Jin***

New Porous Lanthanide-Organic Frameworks: Synthesis, Characterization, and Properties of Lanthanide 2,6-Naphthalenedicarboxylates

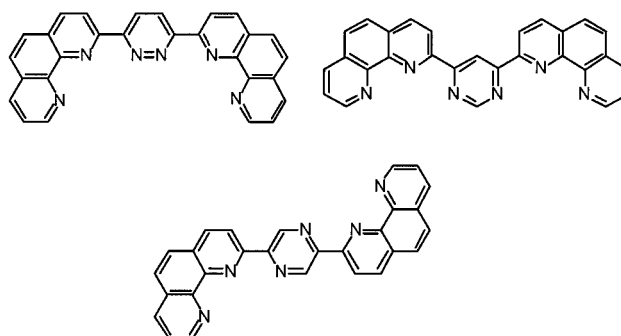
Keywords: Carboxylate ligands / Coordination polymers / Hydrothermal synthesis / Lanthanides / X-ray diffraction



3269 D. Brown, R. Zong, R. P. Thummel*

Ru^{II} Complexes of Bis(1,10-phenanthrolin-2-yl)-diazines

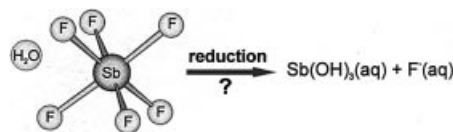
Keywords: Bridging ligands / Ruthenium / Phenanthrolines / Diazines



**3273 M. Ponikvar,* J. F. Liebman,*
H. D. B. Jenkins***

The Redox Chemistry of SbF_6^- Ion

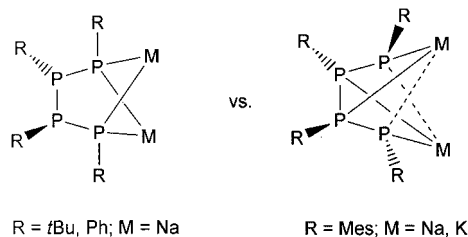
Keywords: SbF_6^- / Reduction / Redox chemistry / XeF_2 / Stabilisation



3277 R. Wolf, A. Schisler, P. Lönnecke, C. Jones, E. Hey-Hawkins*

Syntheses and Molecular Structures of Novel Alkali Metal Tetraorganylcyclopentaphosphanides and Tetraorganyltetraphosphane-1,4-diides

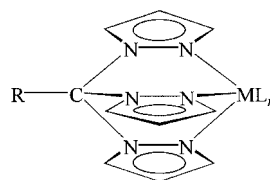
Keywords: Alkali metals / Phosphorus / P ligands / ^{31}P NMR spectroscopy / Tetraphosphane-1,4-diides



3287 A. Sánchez-Méndez, G. F. Silvestri, E. de Jesús, F. J. de la Mata, J. C. Flores,* R. Gómez, P. Gómez-Sal

Tris(pyrazolyl)methane Ligands: Syntheses and Structures of Monometallic and Metalloendritic Complexes

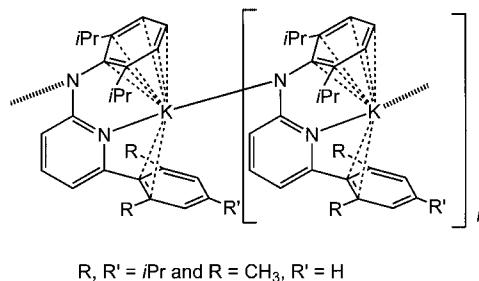
Keywords: N ligands / Titanium / Palladium / Molybdenum / Dendrimers



3297 N. M. Scott, T. Schareina, O. Tok, R. Kempe*

Lithium and Potassium Amides of Sterically Demanding Aminopyridines

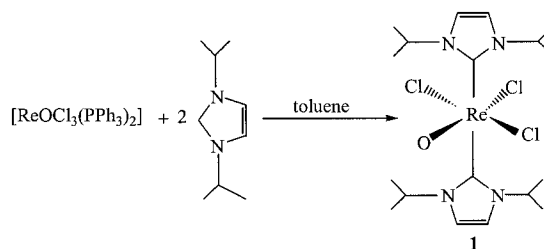
Keywords: Amido ligands / Coordination polymers / Lithium / N ligands / Potassium



3305 B. Royo,* E. Herdtweck, C. C. Romão

Synthesis and Structural Characterization of Novel Oxorhenium(V) Complexes Containing N-Heterocyclic Carbenes

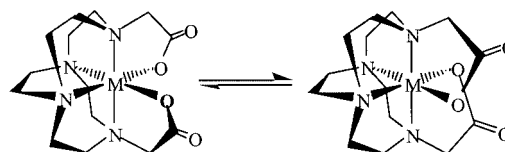
Keywords: Carbene ligands / Oxo ligands / Rhenium



3310 W. Niu, E. H. Wong,* G. R. Weisman,* Y. Peng, C. J. Anderson, L. N. Zakharov, J. A. Golen, A. L. Rheingold

Structural and Dynamic Studies of Zinc, Gallium, and Cadmium Complexes of a Dicarboxylate Pendant-Armed Cross-Bridged Cyclen

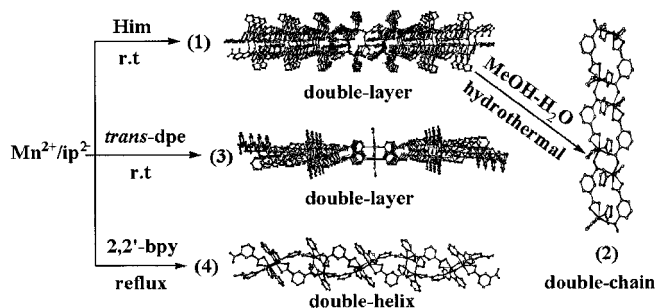
Keywords: Zinc / Gallium / Cadmium / Cyclen / Cross-bridged ligand / Pendant arms



3316 C. Ma, C. Chen, Q. Liu,* F. Chen, D. Liao, L. Li, L. Sun

Synthesis, Structure and Magnetic Properties of a Series of Novel Isophthalate-Bridged Manganese(II) Polymers with Double-Layer or Double-Chain Structures

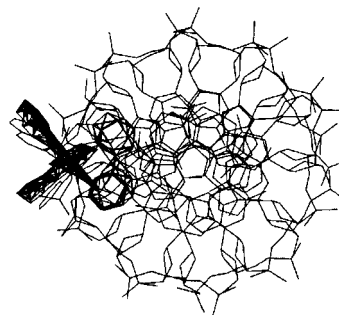
Keywords: Manganese / Crystal structure / Isophthalic acid / Magnetic properties / Structural topology



3326 A. Garoufis,* G. Malandrinos, N. Hadjiliadis

NMR Evidence for Major Groove Binding of Both Λ - and Δ -[Ru(bpy)₂(pqx)](PF₆)₂ to the Oligonucleotide d(CGCGAATTCGCG)₂

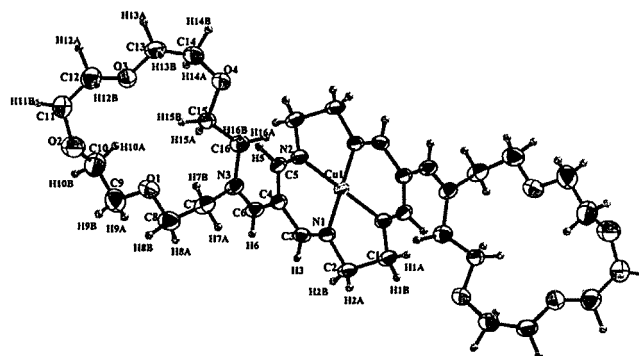
Keywords: Major groove / N ligands / NMR spectroscopy / Oligonucleotides / Ruthenium



3335 B. Korybut-Daszkiewicz,* J. Taraszewska,* K. Zięba, A. Makal, K. Woźniak*

Synthesis, Structure and Binding Properties of Nickel and Copper [14]Cyclidene Complexes with Appended Aza Crown Ethers

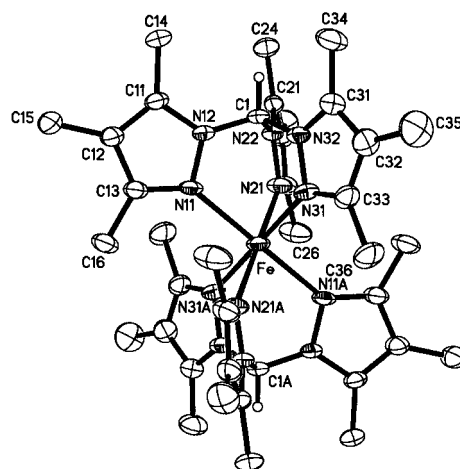
Keywords: Cyclidene complexes / Crown ether compounds / Copper / Nickel / Electrochemistry



3345 D. L. Reger,* J. D. Elgin, M. D. Smith, F. Grandjean, L. Rebbouh, G. J. Long*

A Study of the Electronic Spin-State Crossover in {Fe[HC(3,4,5-Me₃pz)₃]₂}(BF₄)₂

Keywords: Iron / N ligands / Spin crossover / Magnetic properties / Mössbauer spectroscopy

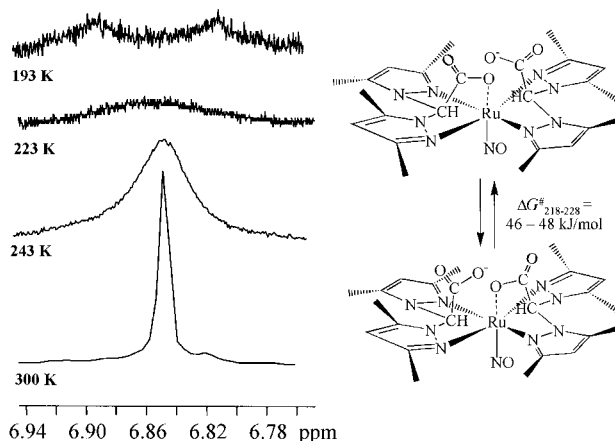


3353

M. Ortiz, A. Díaz, R. Cao,* R. Suardíaz,
A. Otero, A. Antiñolo, J. Fernández-Baeza



Ruthenium Nitrosyl Complexes of Bis(3,5-dimethylpyrazol-1-yl)methane Oxyanions

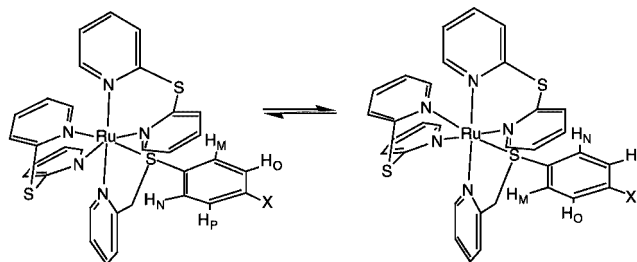


Keywords: Ruthenium nitrosyl complexes / Nitric oxide / NNO Scorpionates / Bis(pyrazolic) ligands

3358

L. Baradello, S. Lo Schiavo, F. Nicoló,
S. Lanza, G. Alibrandi, G. Tresoldi*

Restricted Phenyl Rotation in Pyridyl Thioether Ligands N,S-Chelated to Congested Diiminoruthenium Cores

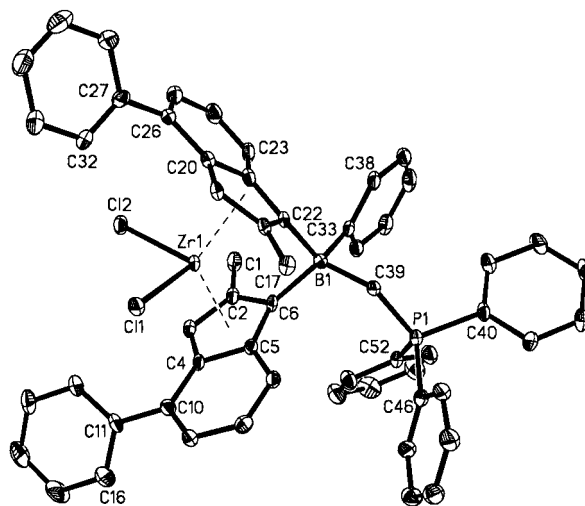


Keywords: Activation barriers / N,S ligands / Restricted rotation / Ruthenium

3370

P. J. Shapiro,* F. Jiang, X. Jin, B. Twamley,
J. T. Patton, A. L. Rheingold

Zwitterionic Phosphorus Ylide Adducts of Boron-Bridged *ansa*-Zirconocene Complexes as Precatalysts for Olefin Polymerization



Keywords: Zirconium / Metallocenes / Boron / Ylides / Catalysis