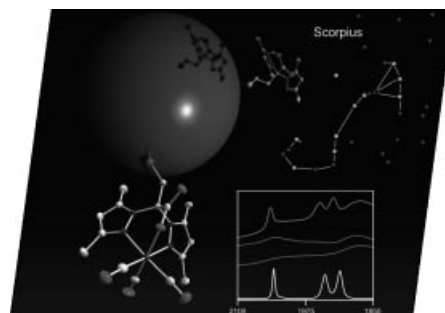


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## COVER PICTURE

**The cover picture shows** the constellation scorpio (lat. scorpius), which symbolises the heteroscorpionate ligands described in the article. To the left, a complex bearing such a heteroscorpionate ligand is fixed on a solid phase. In the back, another ligand with a linker for immobilisation is approaching the resin. The IR spectra (from bottom to top) correspond to a homogenous tricarbonylmanganese complex, the solid phase, a control experiment and a tricarbonyl complex grafted on the solid phase. The  $A_1$  and two E bands prove the facial coordination of the ligands and the fixation of the ligand on the solid phase. Details are discussed in the article by N. Burzlaff et al. on p. 4989 ff.



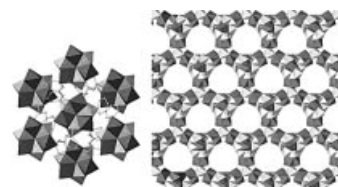
## MICROREVIEW

### Contents

#### 4963 N. Guillou,\* C. Livage, G. Férey

Cobalt and Nickel Oxide Architectures in Metal  
 Carboxylate Frameworks: From Coordination  
 Polymers to 3D Inorganic Skeletons

**Keywords:** Cobalt / Nickel / Organic–inorganic  
 hybrids / Solvothermal synthesis /  
 Microporous materials

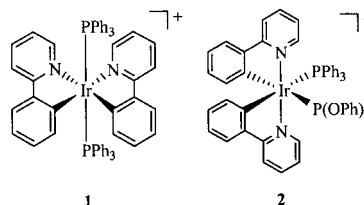


## SHORT COMMUNICATIONS

4979 C. S. Chin,\* M.-S. Eum, S. y. Kim, C. Kim,  
S. K. Kang



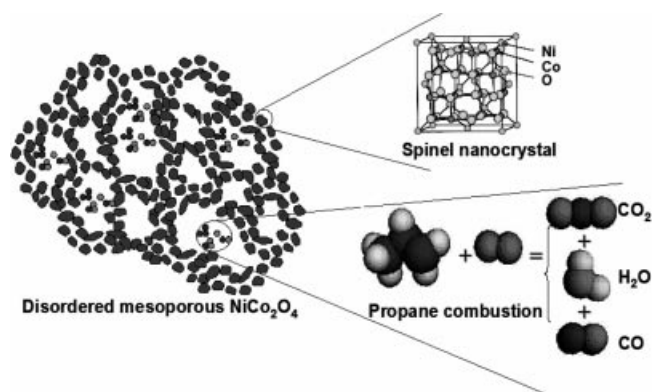
New Type of Photoluminescent Iridium Complex: Novel Synthetic Route for Cationic *trans*-Bis(2-phenylpyridinato)iridium(III) Complex



**Keywords:** Isomerization / Iridium / Photoluminescence / Synthetic methods / Bis(ppy) complex

4983 M. A. Carreon,\* V. V. Guliants,\*  
L. Yuan, A. R. Hughett, A. Dozier,  
G. A. Seisenbaeva, V. G. Kessler

Mesoporous Nanocrystalline Mixed Metal Oxides from Heterometallic Alkoxide Precursors: Cobalt–Nickel Oxide Spinel for Propane Oxidation

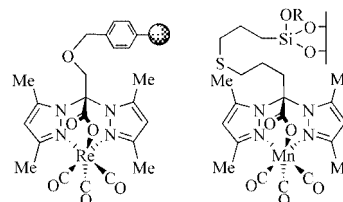


**Keywords:** Mesoporous Co–Ni oxides / Oligomeric surfactants / Nanocrystalline spinels / Thermal stability / Hydrocarbon combustion

## FULL PAPERS

4989 E. Hübner, T. Haas, N. Burzlaff\*

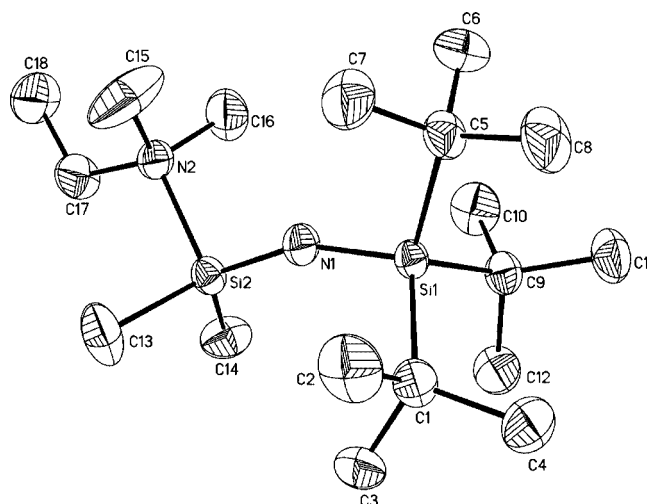
Synthesis and Transition Metal Complexes of Novel *N,N,O* Scorpionate Ligands Suitable for Solid Phase Immobilisation



**Keywords:** Solid phase / Immobilisation / Tripodal ligands / *N,N,O* ligands / Tricarbonyl complexes

4998 H.-W. Lerner,\* M. Bolte, K. Schurz,  
N. Wiberg, G. Baum, D. Fenske, J. W. Bats,  
M. Wagner

Chemical and Structural Features of  $\text{NMe}_2\text{Et}$  Adducts of the Silanimines  $\text{Me}_2\text{Si}=\text{NSi}^t\text{Bu}_3$  and  $^t\text{Bu}_2\text{Si}=\text{NSiCl}^t\text{Bu}_2$

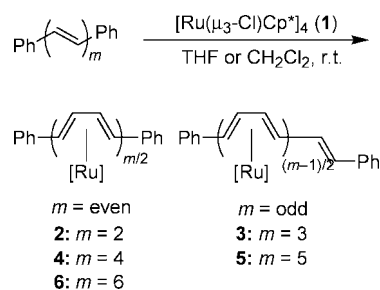


**Keywords:** Silanimines / Amines / Donor adduct / Wittig reaction / Stevens rearrangement

**5006 H. Fukumoto, K. Mashima\***

$\pi$ -Conjugated  $\alpha,\omega$ -Diphenylpolyene Complexes of  $\text{RuClCp}^*$  Fragment(s) in  $\eta^4$ -*s-cis* Conformation

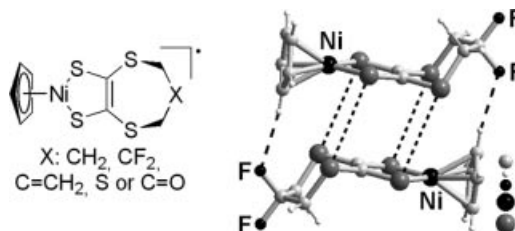
**Keywords:**  $\pi$ -Conjugated polyenes / Coordination modes / Fluxionality / Multinuclear complexes / Ruthenium



**5012 M. Nomura, M. Geoffroy, P. Adkine, M. Fourmigué\***

Neutral, Radical  $[\text{CpNi}(\text{dithiolene})]$  Complexes with Flexible, Nonplanar Seven-Membered Rings:  $[\text{CpNi}\{\text{S}_2\text{C}_2\text{S}_2(\text{CH}_2)_2\text{X}\}]$  ( $\text{X} = \text{CH}_2, \text{CF}_2, \text{C}=\text{CH}_2, \text{S}, \text{C}=\text{O}$ )

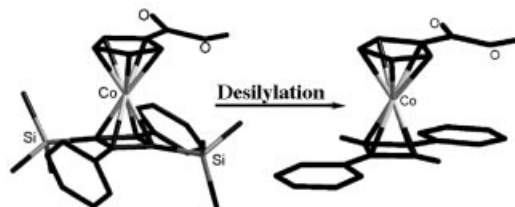
**Keywords:** Nickel / S ligands / Radicals / Metallocycles / Magnetic properties



**5022 H. P. Gupta, M. S. Kumar, S. Upreti, A. J. Elias\***

Synthesis of Methyl Metallocenecarboxylates  $[\{\eta^4\text{-Ph}_{4-n}(\text{SiMe}_3)_n\text{C}_4\}\text{Co}\{\eta^5\text{-MeOC(O)C}_5\text{H}_4\}]$  ( $n = 1, 2$ ) and Their Desilylation Reactions: Structural Studies and Conversion to Metallocenecarboxylic Acids and Their Alcohol Derivatives

**Keywords:** Cobalt / Alkynes / Desilylation / Metallocenes / Carboxylic acids

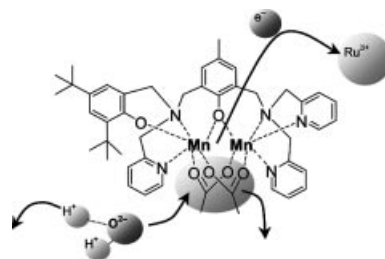


**5033 M. F. Anderlund, J. Höglblom, W. Shi, P. Huang, L. Eriksson, H. Weihe, S. Styring, B. Åkermark, R. Lomoth,\* A. Magnuson\***



Redox Chemistry of a Dimanganese(II,III) Complex with an Unsymmetric Ligand: Water Binding, Deprotonation and Accumulative Light-Induced Oxidation

**Keywords:** Manganese / Bioinorganic chemistry / Ligand exchange / EPR spectroscopy / IR spectroscopy

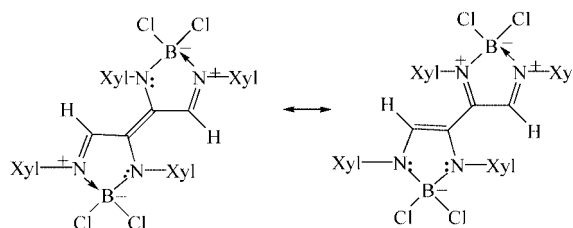


**5048 L. Weber,\* J. Förster, H.-G. Stammer, B. Neumann**



Contribution to the Reactivity of  $N,N'$ -Diaryl-1,4-diazabutadienes  $\text{Aryl}-\text{N}=\text{CH}-\text{CH}=\text{N}-\text{Aryl}$  ( $\text{Aryl} = 2,6\text{-Dimethylphenyl}; 2,4,6\text{-Trimethylphenyl}$ ) Towards Boron Trichloride

**Keywords:** Diazabutadienes / Diazaboroles / Amino-boranes / Structures / Boron

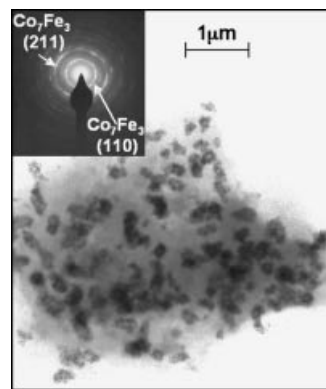


5057

V. A. de la Peña O'Shea,\*  
M. C. Álvarez-Galván,  
J. M. Campos-Martin, N. N. Menéndez,  
J. D. Tornero, J. L. G. Fierro\*

Surface and Structural Features of Co-Fe Oxide Nanoparticles Deposited on a Silica Substrate

**Keywords:** Cobalt / Iron / Oxides / Metal–metal interactions / Materials science

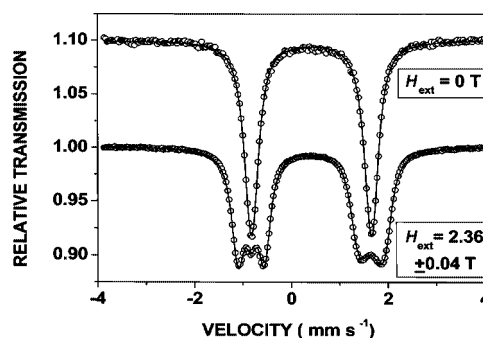


5069

I. Nowik,\* R. H. Herber

Computational Determination of Iron Hyperfine Interactions in Organometallics Using Small Transverse External Magnetic Fields

**Keywords:** Mössbauer spectroscopy / Metallocenes / Quadrupole splitting / Magnetic hyperfine field / External magnetic field perturbation / Iron

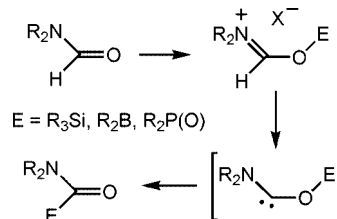


5076

Y. Canac, G. E. Aniol, S. Conejero,  
B. Donnadieu, G. Bertrand\*

A Facile Synthesis of Carbamoylsilanes, -boranes and -phosphane Oxides – Isolation of the First Uncomplexed Carbamoylborane

**Keywords:** Carbenes / Rearrangement / Boron / Silicon

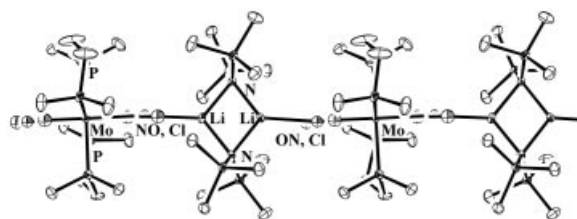


5081

F. Liang, H. W. Schmale, H. Berke\*

$\mu$ -Coordination Chemistry of NO Ligands: Adducts of *trans*-Mo(dmpe)<sub>2</sub>(Cl)(NO) with Lithium Salts

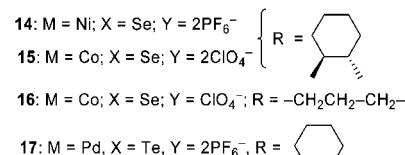
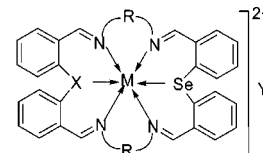
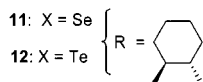
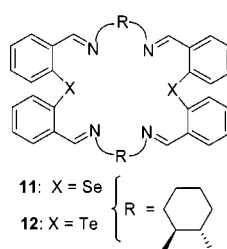
**Keywords:** Coordination polymers / Bridging ligands / Phosphane ligands / Lithium / Molybdenum



5089

U. Patel, H. B. Singh,\* R. J. Butcher

Synthesis and Characterization of Some New 22-Membered Chalcogenoaza Macrocycles and Their Co<sup>II</sup> and Ni<sup>II</sup> Complexes



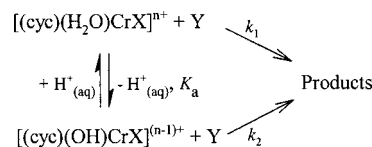
**Keywords:** Cobalt / Magnetic properties / N ligands / Selenium / Tellurium

**5098** E. Madej, A. Katafias,\* P. Kita,\* J. Eriksen, O. Mønsted\*



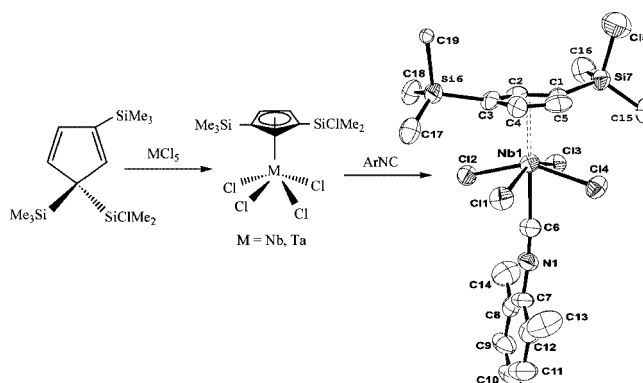
Kinetics and Mechanism of Ligand Substitution in Some Chromium(III) Tetraaza Macrocyclic Complexes in Acidic Media: Differences in Reactivity Between *cis* and *trans* Isomers

**Keywords:** Chromium / Structure–activity relationships / Ligand substitution / Macrocyclic complexes / Kinetics



**5106** M. Gómez,\* P. Gómez-Sal, J. M. Hernández

New Bis(silyl)cyclopentadienidoniobium and -tantalum Complexes: X-ray Crystal Structures of  $[NbCp^{\wedge}Cl_4]$  and  $[NbCp^{\wedge}Cl_4(CNAr)]$  [ $Cp^{\wedge} = \eta^5-C_5H_3(SiClMe_2)(SiMe_3)$ ;  $Ar = 2,6-Me_2C_6H_3$ ]

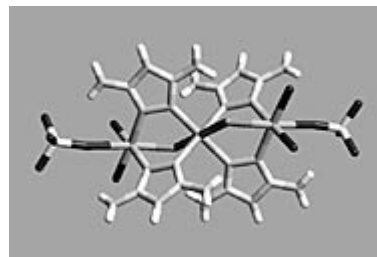


**Keywords:** Niobium / Tantalum / Cyclopentadienyl complexes

**5115** E. Aznar, S. Ferrer,\* J. Borrás, F. Lloret, M. Liu-González, H. Rodríguez-Prieto, S. García-Granda

Coordinative Versatility of Guanazole [3,5-Diamino-1,2,4-triazole]: Synthesis, Crystal Structure, EPR, and Magnetic Properties of a Dinuclear and a Linear Trinuclear Copper(II) Complex Containing Small Bridges and Triazole Ligands

**Keywords:** Copper / 1,2,4-Triazole ligands / Polynuclear compounds / X-ray structures / Magnetic properties

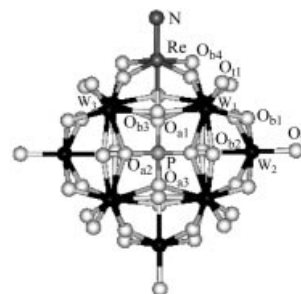


**5126** L.-K. Yan, Z. Dou, W. Guan, S.-Q. Shi, Z.-M. Su\*



A DFT Study on the Electronic and Redox Properties of  $[PW_{11}O_{39}(ReN)]^{n-}$  ( $n = 3, 4, 5$ ) and  $[PW_{11}O_{39}(OsN)]^{2-}$

**Keywords:** Electronic properties / DFT / Nitrido-functionalized / Polyoxometalates / Redox properties

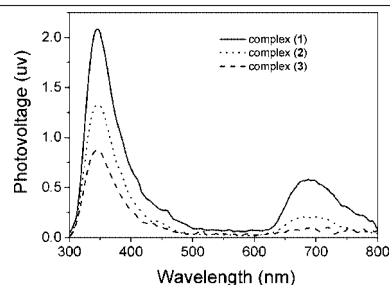


**5130** L.-P. Sun, S.-Y. Niu,\* J. Jin, G.-D. Yang, L. Ye



Synthesis, Structure and Surface Photovoltage of a Series of  $Ni^{II}$  Coordination Polymers

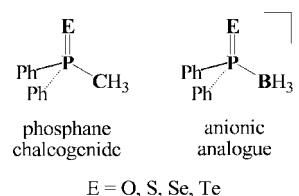
**Keywords:** Coordination polymers / Nickel / Hydrogen bonds / Surface photovoltage spectroscopy



**5138 F. Dornhaus, M. Bolte, H.-W. Lerner, M. Wagner\***

A Comparative Study of Chalcogenated Phosphanylborohydrides  $[EPR_2BH_3]^-$  ( $R = Ph, tBu$ ) and Triorganophosphane Chalcogenides  $EPh_2CH_3$  ( $E = O, S, Se, Te$ )

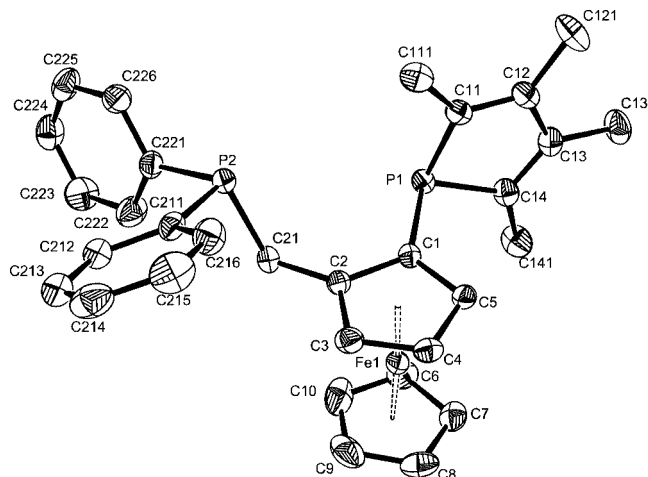
**Keywords:** P ligands / Boranes / Ligand design / Chalcogens / Isoelectronic analogues



**5148 J. Guadalupe Lopez Cortes, O. Ramon, S. Vincendeau, D. Serra, F. Lamy, J.-C. Daran, E. Manoury,\* M. Gouygou\***

New Chiral Ferrocene-Bridged Phosphole-Phosphane Ligands

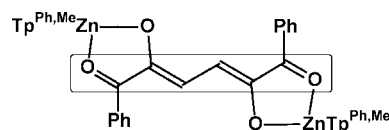
**Keywords:** Ferrocenes / Phospholes / P,P ligands / Asymmetric catalysis / X-ray diffraction



**5158 T. Tekeste, H. Vahrenkamp\***

“Inhibition” of the Enzyme Model  $Tp^{Ph,Me}Zn-OH$  by Diketo Compounds

**Keywords:** Zinc / Bioinorganic chemistry / Enzyme inhibition / Diketo compounds



**5165 Index 2006**



*The editorial staff and the publishers thank all readers, authors, referees, and advertisers for their interest and support over the past year and wish them all a happy new year.*