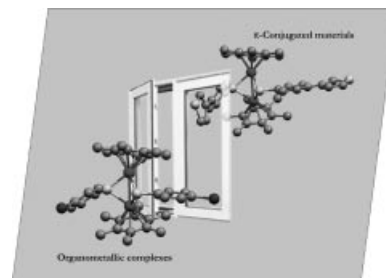


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## COVER PICTURE

The cover picture shows the half-open way from well-known (arene)ruthenium complexes to  $\pi$ -conjugated materials. This work illustrates the transition from molecular catalysts to molecular building blocks for conducting polymers and non-linear optics. Details are discussed in the Short Communication by F. Chérioux et al. on p. 2405 ff. The authors are grateful to the Swiss National Science Foundation for financial support.



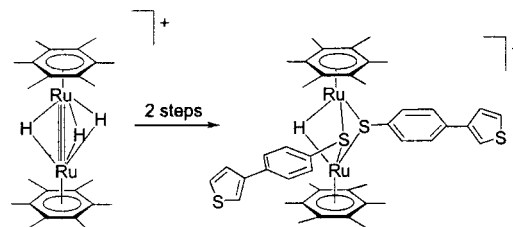
## SHORT COMMUNICATION

### Contents

**2405** M. J.-L. Tschan, F. Chérioux,\* B. Therrien,  
 G. Süss-Fink

Subsequent Hydride Substitution in (Arene)tri-  
 hydridodiruthenium Complexes: Synthesis and  
 Structure of Thiolato-Bridged Diruthenium  
 Cations of the Type  $[H_2(arene)_2Ru_2(p-X-C_6H_4-S)]^+$   
 and  $[H(arene)_2Ru_2(p-X-C_6H_4-S)_2]^+$

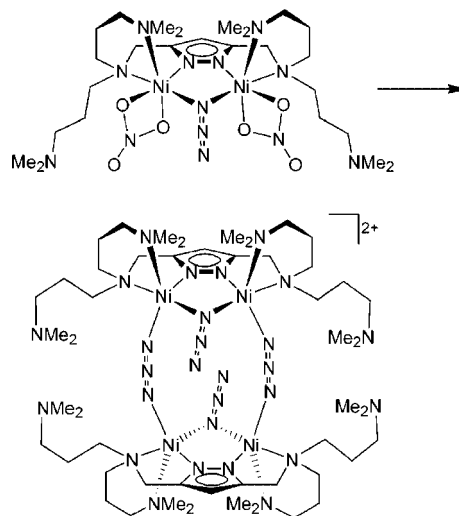
**Keywords:** Ruthenium / Sulfur / Hydrides / Complexes /  
 Cross-coupling



- 2413** G. Leibeling, S. Demeshko,  
B. Bauer-Siebenlist, F. Meyer,\* H. Pritzkow

Polynuclear and Extended Coordination Compounds from Preorganized Bimetallic Components: Tuning the Magnetic Properties of Dinickel(II) Building Blocks

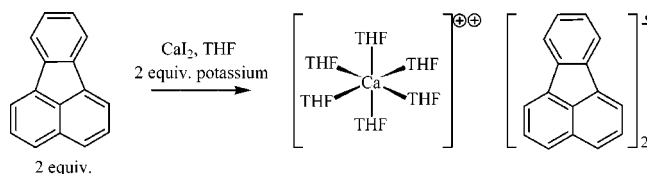
**Keywords:** Molecular magnetism / Nickel / Dinuclear complexes / Tetranuclear complexes / Magnetic properties / Azides



- 2421** I. L. Fedushkin,\* A. N. Lukoyanov,  
S. Dechert, H. Schumann\*

Synthesis and Molecular Structure of Calcium Difluoranthene,  $[\text{Ca}(\text{THF})_6][\text{C}_{16}\text{H}_{10}]_2 \cdot 2\text{C}_{16}\text{H}_{10}$

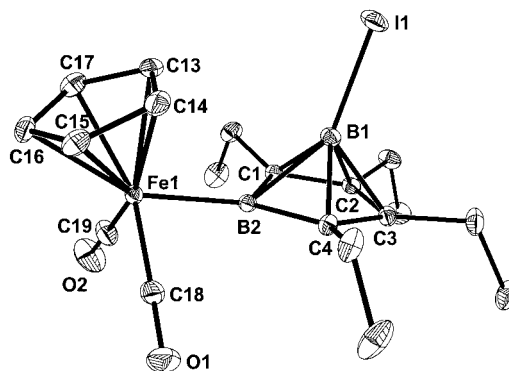
**Keywords:** Calcium / Fluoranthene / Radical-anion / Structure elucidation



- 2425** Y. Nie, H. Pritzkow, W. Siebert\*

Reactivity Studies on 2,3,4,5-Tetraethyl-1,6-diiodo-2,3,4,5-tetracarba-*nido*-hexaborane(6): Synthesis and Structures of New  $\text{C}_4\text{B}_2$  *nido*-Carborane Derivatives

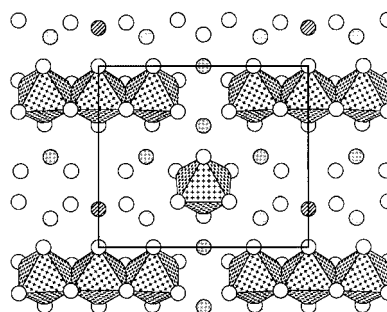
**Keywords:** Boron / Carboranes / Nucleophilic substitution / Iron / Cobalt



- 2434** T. A. Vanderah,\* T. Siegrist, R. S. Roth,  
A. P. Ramirez, R. G. Geyer

Crystal Structure and Properties of  $\text{Ba}_{11}\text{FeTi}_{27}\text{O}_{66.5}$

**Keywords:** Mixed metal oxides / X-ray diffraction / Magnetic susceptibility / Dielectric constants / Dielectric loss tangent

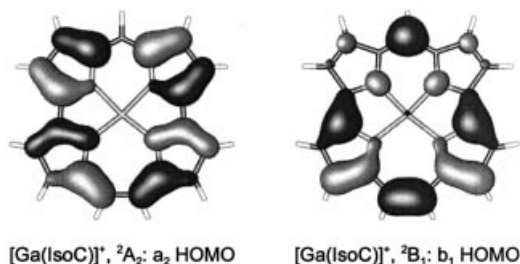


**2442 B. van Oort, E. Tangen, A. Ghosh\***



Electronic Structure of Transition Metal–Isocorrole Complexes: A First Quantum Chemical Study

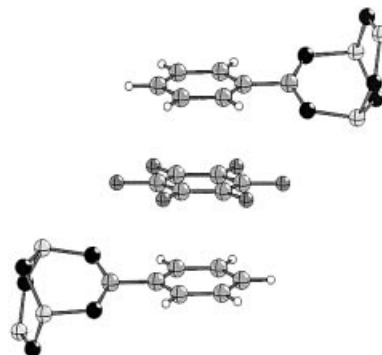
**Keywords:** Calculations / Corrole / Isocorrole / Non-innocent ligands / Radicals / Transition metals



**2446 C. Knapp, E. Lork, R. Mews,\*  
A. V. Zibarev\***

Inclusion Complexes of the Bicyclic Aryl-Substituted Sulfur-Nitrogen Compounds  $\text{Ar}-\text{CN}_5\text{S}_3$  with Fluorocarbon and Hydrocarbon Aromatics

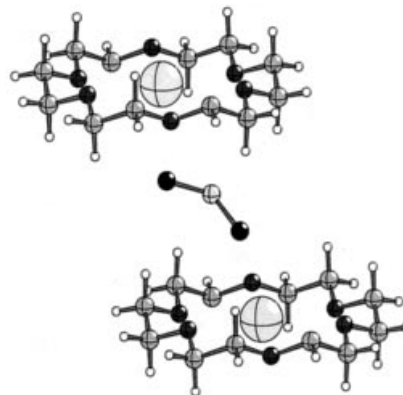
**Keywords:** Polyfluoroaromatic compounds / Inclusion compounds /  $\pi$ -Stacking interactions / Molecular recognition / Crystal engineering



**2452 T. Borrmann, E. Lork, R. Mews,\*  
M. M. Shakirov, A. V. Zibarev\***

Preparation and Structural Characterization of  $[\text{K}(\text{18-crown-6})]^+$  Salts of  $[\text{RNSN}]^-$  Anions and the  $[\text{NSN}]^{2-}$  Dianion

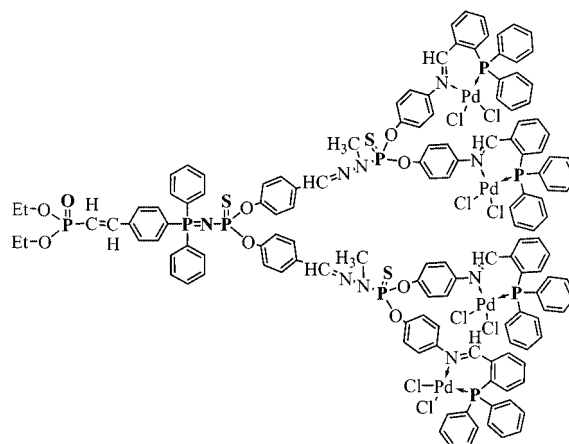
**Keywords:** Sulfur / Nitrogen / X-ray diffraction / NMR spectroscopy



**2459 R.-M. Sebastián, L. Griffe, C.-O. Turrin,  
B. Donnadieu, A.-M. Caminade,  
J.-P. Majoral\***

Synthesis and Core and Surface Reactivity of Phosphorus-Based Dendrons

**Keywords:** Azides / Dendrimers / Dendrons / N,P ligands / Phosphorus

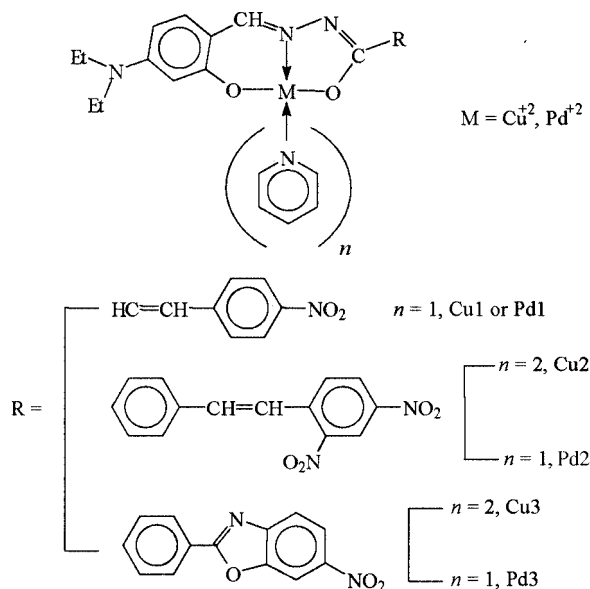


2467

F. Borbone, U. Caruso, R. Centore,\*  
A. De Maria, A. Fort, M. Fusco, B. Panunzi,  
A. Roviello,\* A. Tuzi

Second Order Optical Nonlinearities of Copper(II) and Palladium(II) Complexes with *N*-Salicylidene-*N'*-aroylhydrazine Tridentate Ligands

**Keywords:** Tridentate ligands / Nonlinear optics / Polymers / Copper / Palladium

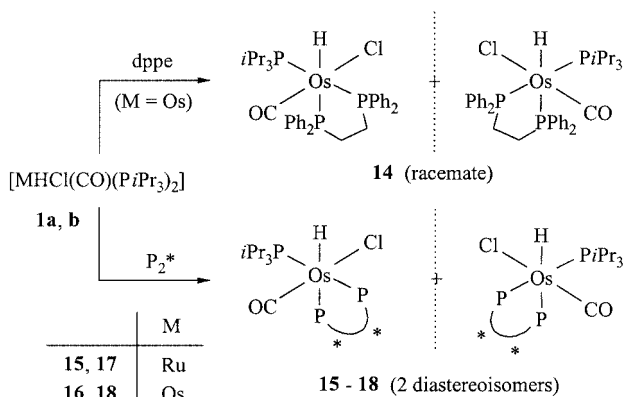


2477

C. Schlünken, M. A. Esteruelas, F. J. Lahoz,  
L. A. Oro, H. Werner\*

Synthesis, Molecular Structure and Catalytic Activity of Six-Coordinate Chloro(hydrido)- and Dihydridoruthenium(II) and -osmium(II) Complexes with the Chiral Ligands *PiPr*<sub>2</sub>NH(Me)Ph, (*S,S*)-Chiraphos and (*S,S*)-Diop

**Keywords:** Chirality / Hydrido complexes / Osmium / Phosphane complexes / Ruthenium

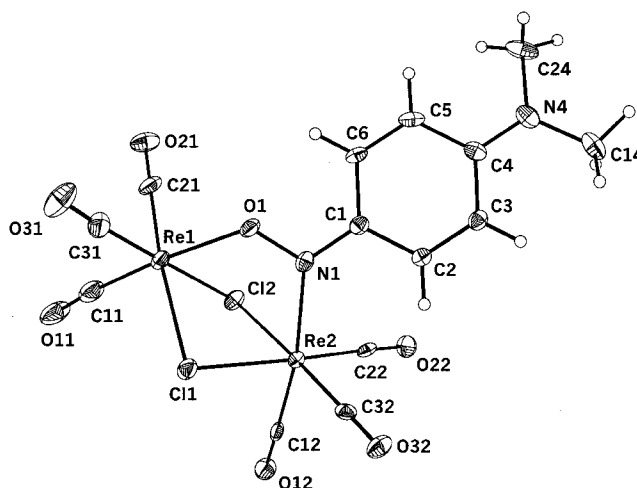


2488

R. Wilberger, C. Krinninger, H. Piotrowski,  
P. Mayer, I.-P. Lorenz\*

A New Dichroic, Nitroso-Bridged Complex of Rhenium: Di- $\mu_2$ -chloro[ $\mu_2$ -( $\eta^2$ -*N,O*)-*N,N*-dimethyl-4-nitrosoaniline]bis[tricarbonylrhenium(I)]

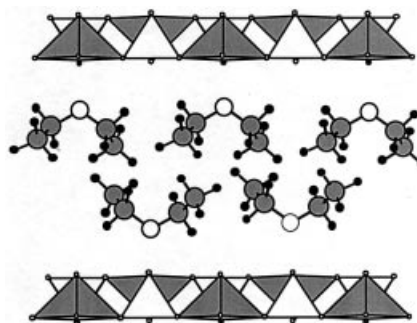
**Keywords:** Rhenium / C,N ligand / N,O bridge / Dichroism



**2493** K. Melánová, L. Beneš,\* V. Zima,  
M. Trchová, J. Dybal

Vanadyl Phosphate Intercalated with Diethyl Ether

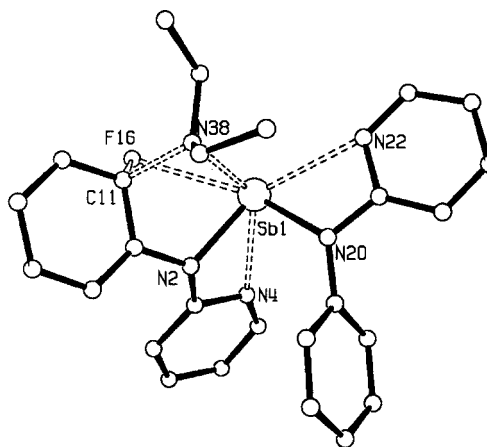
**Keywords:** Intercalation / Vibrational spectroscopy / X-ray diffraction / Ab initio calculations / Semiempirical calculations



**2498** P. L. Shutov, S. S. Karlov,\* K. Harms,  
D. A. Tyurin, J. Sundermeyer, J. Lorberth,  
G. S. Zaitseva

Intramolecular Nucleophilic Substitution in a  $C_6F_5$  Moiety Assisted by Antimony

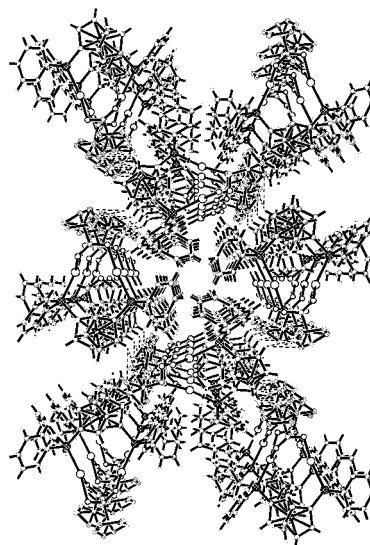
**Keywords:** Antimony / Amides / Density functional calculations / Fluorinated ligands / Nucleophilic substitution



**2504** X. L. Lu, W. K. Leong, L. Y. Goh,\*  
A. T. S. Hor\*

Supramolecular Structures in  $[Ag(dppf)]$  Complexes [dppf = 1,1'-Bis(diphenylphosphanyl)-ferrocene] Stabilized by Coordinatively Versatile Trifluoroacetate (TFA) Ligands

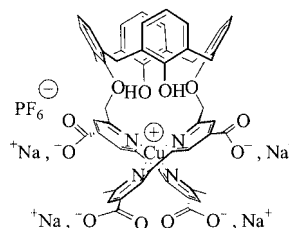
**Keywords:** Silver / Trifluoroacetate / Coordination polymer / Supramolecular chemistry / Hydrogen bonding



**2514** N. Psychogios, J.-B. Regnouf-de-Vains,\*  
H. M. Stoeckli-Evans

A Water-Soluble Calix[4]arene-Based Podand Incorporating 4,4'-Dicarboxy-2,2'-bipyridine Chelating Units – Synthesis and Complexation Properties towards Copper Ions

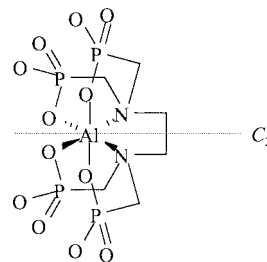
**Keywords:** Calix[4]arene / Bipyridine / Podand / Copper / Zinc



**2524 V. Di Marco, M. Kilyen, T. Jakusch,  
P. Forgó, G. Dombi, T. Kiss\***

Complexation Properties of Ethylenediamine-tetramethylenephosphonic Acid (EDTMP) with  $\text{Al}^{\text{III}}$  and  $\text{V}^{\text{IV}}$ O

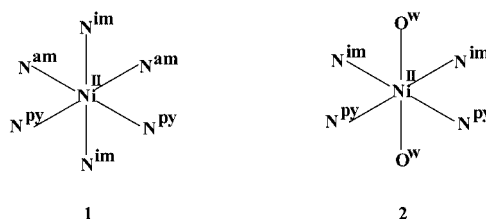
**Keywords:** Aluminum / Aminophosphonates / Bioinorganic chemistry / Speciation / Vanadium



**2533 S. Banerjee, J. Gangopadhyay, C.-Z. Lu,  
J.-T. Chen, A. Ghosh\***

Nickel(II) Complexes Incorporating Pyridyl, Imine and Amino Chelate Ligands: Synthesis, Structure, Isomer Preference, Structural Transformation and Reactivity Towards Nickel(III) Derivatives

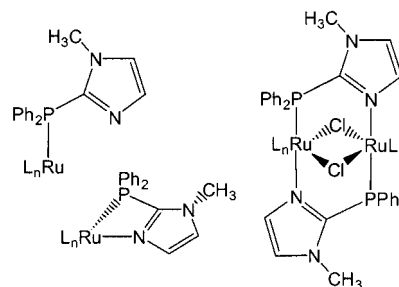
**Keywords:** Coordination modes / Isomer specificity / N ligands / Nickel / Structural transformation



**2542 G. Espino, F. A. Jalón, M. Maestro,  
B. R. Manzano,\* M. Pérez-Manrique,  
A. C. Bacigalupe**

Synthesis and Structure of New (Polyphosphane)-ruthenium Complexes with the Hemilabile Ligand 2-(Diphenylphosphanyl)-1-methyl-1*H*-imidazole – An Unexpected Rearrangement of  $[\text{RuCl}_2(\text{PN})(\text{PPh}_3)_2]$

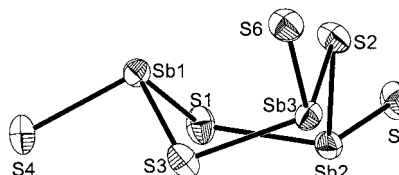
**Keywords:** Ruthenium / Hemilabile ligands / Hydride ligands / Phosphanes / N,P ligands



**2553 R. Kiebach, F. Studt, C. Näther, W. Bensch\***

$[\text{Ni}(\text{C}_4\text{H}_{13}\text{N}_3)_2]_3(\text{Sb}_3\text{S}_6)_2$ : The First Structure Containing Isolated Heterocyclic  $[\text{Sb}_3\text{S}_6]^{3-}$  Anions

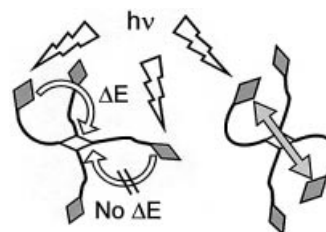
**Keywords:** Thioantimonates / Heterocycles / Hydrothermal synthesis / Antimony / Sulfur



**2557 L. Flamigni,\* A. M. Talarico, B. Ventura,  
G. Marconi, C. Sooambar, N. Solladié\***

Conformational Effects on the Photoinduced Energy Transfer in a Star-Shaped Pentaporphyrin with Nucleosidic Linkers

**Keywords:** Circular dichroism / Energy transfer / Porphyrinoids / Photochemistry / Supramolecular chemistry

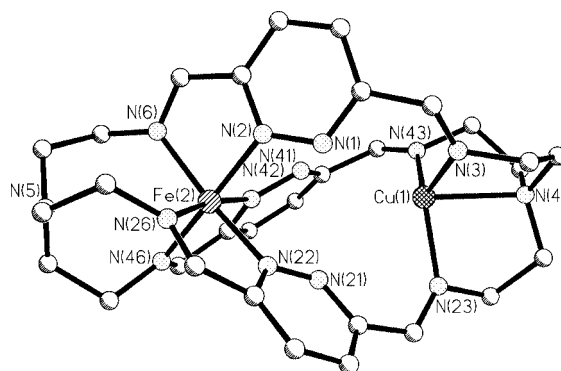


- 2570 T. K. Ronson, J. Nelson,\* G. B. Jameson,  
J. C. Jeffery, S. Brooker\*



Controlled Access to Mixed-Metal Pyridazine-  
Linked Cryptates

**Keywords:** Cryptates / Cyclic voltammetry / Hetero-  
metallic complexes / N ligands / Structure  
elucidation



- 2585 D. B. Werz, J. H. Schulte, B. J. Rausch,  
R. Gleiter,\* F. Rominger

Structural Properties of Bis(hexacarbonyldi-  
cobalt) Complexes with Heteroatoms Next to  
the Former Triple Bonds – A Contribution to  
the Mechanism of the Pauson–Khand Reaction

**Keywords:** Alkynes / Chalcogens / Cobalt / Pauson–  
Khand reaction

