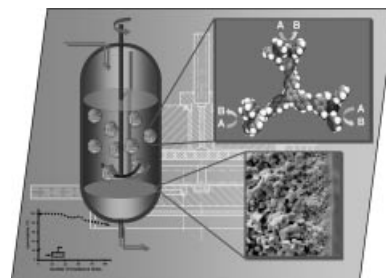


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COVER PICTURE

The cover picture shows the concept of operating a homogeneous catalyst under continuous operation conditions: The recycling of molecular-weight-enlarged transition-metal complexes by suitable filtration methods and equipment in order to combine the advantages of both classical homogeneous and heterogeneous catalysis. Various aspects of molecular-weight enlargement and immobilization of catalysts, and recent developments, are reported in the Microreview by D. Vogt et al. on p. 4011 ff.



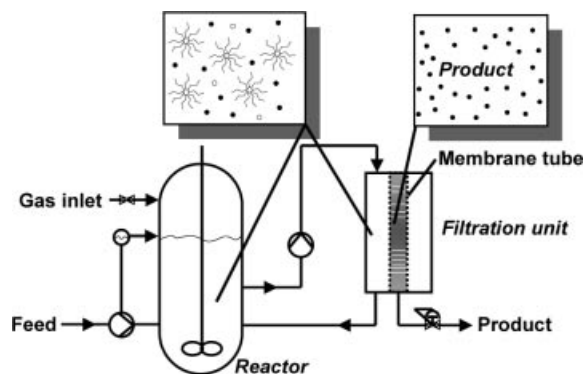
MICROREVIEW

Contents

4011 C. Müller, M. G. Nijkamp, D. Vogt*

Continuous Homogeneous Catalysis

Keywords: Homogeneous catalysis / Membrane reactor / Soluble support / Recycling / Immobilisation / Nanofiltration



SHORT COMMUNICATIONS

4023 M. Scheer,* J. Bai, B. P. Johnson,
R. Merkle, A. V. Virovets, C. E. Anson

Fullerene-Like Nanoballs Formed by Penta-
phosphaferrocene and CuBr

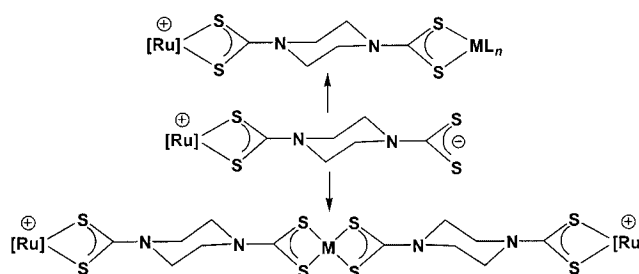
Keywords: Polyphosphorus ligands / Fullerene-like
molecules / Iron / Phosphorus / Cluster /
Nanochemistry



4027 J. D. E. T. Wilton-Ely,* D. Solanki,
G. Hogarth*

Multifunctional Dithiocarbamates as Ligands
Towards the Rational Synthesis of Polymetallic
Arrays: An Example Based on a Piperazine-
Derived Dithiocarbamate Ligand

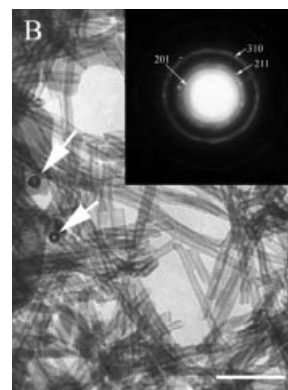
Keywords: Dithiocarbamates / Piperazine / Multi-
metallic arrays / Ruthenium complexes / Co-
ordination chemistry



4031 J. Wan, Z. Wang, X. Chen, L. Mu, Y. Qian*

Shape-Induced Enhanced Luminescent Proper-
ties of Red Phosphors: $\text{Sr}_2\text{MgSi}_2\text{O}_7:\text{Eu}^{3+}$ Nano-
tubes

Keywords: Nanotubes / Silicates / Hydrothermal
synthesis / Photoluminescence

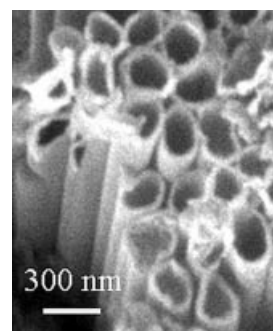


FULL PAPERS

4035 S. Chou, F. Cheng, J. Chen*

Electrochemical Deposition of $\text{Ni}(\text{OH})_2$ and Fe-
Doped $\text{Ni}(\text{OH})_2$ Tubes

Keywords: Nickel hydroxide / Iron doping / Tubes /
Electrochemical deposition / Template

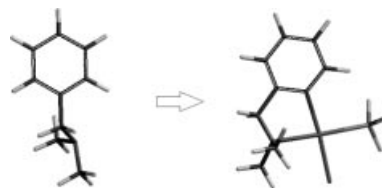


4040 R. Bosque,* F. Maseras



A Theoretical Assessment of the Thermodynamic Preferences in the Cyclopalladation of Amines

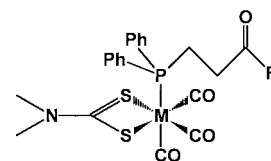
Keywords: Density functional calculations / Metalla-cycles / N ligands / Palladium



4048 M. Riondato,* D. Camporese, D. Martín, J. Suades, A. Alvarez-Larena, U. Mazzi

Synthesis and Characterisation of $[\text{Re}(\text{CO})_3\text{-(SS)}(\text{P})]$ Complexes: A [2+1] Concept for $^{99\text{m}}\text{Tc}$ - and ^{188}Re -Radiopharmaceutical Applications

Keywords: Carbonyl ligands / P ligands / Rhenium / S ligands / Technetium

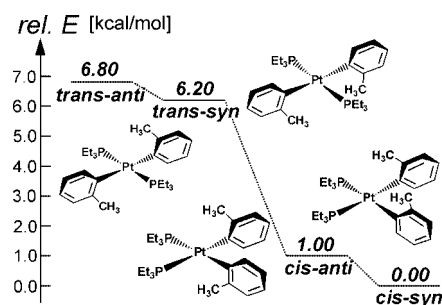


(M = Re, $^{99\text{m}}\text{Tc}$)

4056 D. Gudat, V. K. Jain, A. Klein,* T. Schurr, S. Zálaiš

On the Borderline between *cis* and *trans* in Organometallic (Phosphane)platinum(II) Complexes

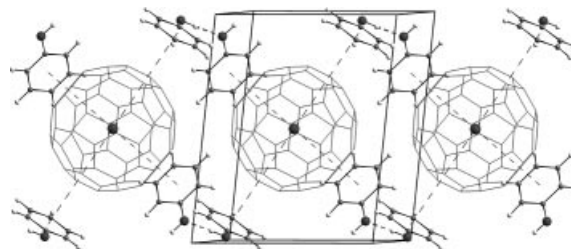
Keywords: Density functional calculations / Isomers / NMR spectroscopy / Phosphane ligands / Platinum



4064 M. Schulz-Dobrick, M. Panthöfer, M. Jansen*

Supramolecular Arrangement of C_{60} and Phenol into a Square Packing Arrangement of π - π Interacting and Hydrogen-Bonded Rods in $\text{C}_{60} \cdot 5\text{C}_6\text{H}_5\text{OH}$

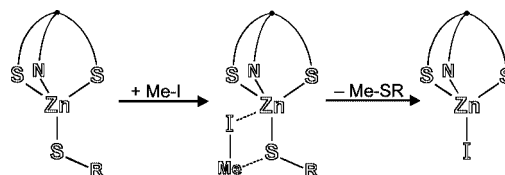
Keywords: Fullerenes / Supramolecular chemistry / π interactions / Hydrogen bonds



4070 M. M. Ibrahim, G. He, J. Seebacher, B. Benkmil, H. Vahrenkamp*

Biomimetic Thiolate Alkylation with Zinc Pyrazolylbis(thioimidazolyl)borate Complexes

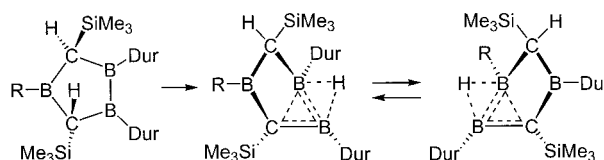
Keywords: Bioinorganic chemistry / Enzyme models / N,S ligands / Thiolates / Zinc



4078 D. Scheschkewitz, P. Amseis, G. Geiseler, W. Massa, M. Hofmann, A. Berndt*

Classical 1,2,4-Triboracyclopentanes and Their Rearrangement into Nonclassical 2-Boryl-1,3-diboracyclobutanes: Intramolecular C-H Bond Activation by a B-B Moiety

Keywords: Ab initio computations / Boron heterocycles / Three-centre, two-electron bonds

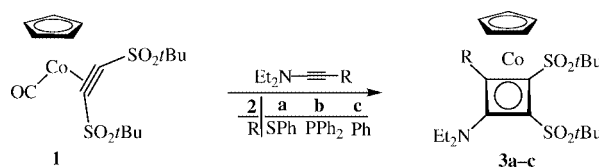


4086

A. Goswami, T. H. Staeb, F. Rominger,
R. Gleiter, W. Siebert*

Reactivity of the $[\eta^2\text{-Bis}(tert\text{-butylsulfonyl})\text{-acetylene}](\text{carbonyl})(\eta^5\text{-cyclopentadienyl})\text{cobalt}$ Complex Towards Electron-Rich and -Poor Alkynes

Keywords: Alkynes / Cobalt / Cyclopentadienyl ligands / N ligands

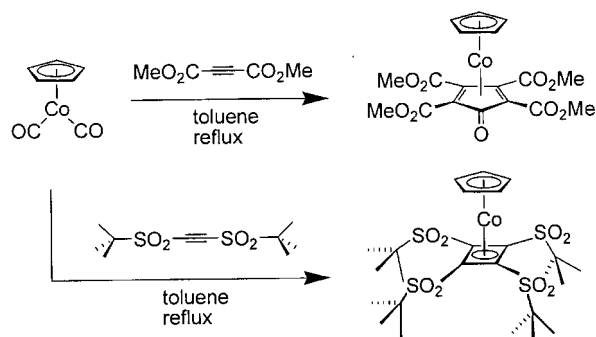


4090

T. H. Staeb, J. Chávez, R. Gleiter,* B. Nuber

The Role of $[\eta^2\text{-Bis}(tert\text{-butylsulfonyl})\text{acetylene}](\text{carbonyl})(\eta^5\text{-cyclopentadienyl})\text{cobalt(I)}$ as an Intermediate in the Alkyne Dimerisation

Keywords: Alkynes / Cobalt / Cyclobutadiene / Cyclopentadienyl ligands

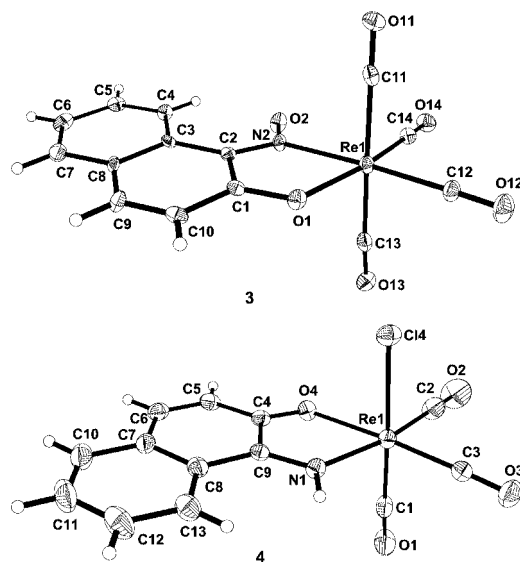


4094

C. Krinninger, S. Wirth, J. C. G. Ruiz,
P. Klüfers, H. Nöth, I.-P. Lorenz*

Reactivity of 1-Nitroso-2-naphthol Towards the Carbonyl Complexes $\text{XRe}(\text{CO})_5$ ($\text{X} = \text{Cl}, \text{Br}, \text{I}$): Molecular Structures of $\text{cis-}[\eta^2\text{-}\{N,O\text{-C}_{10}\text{H}_6\text{ON(O)}\}\text{Re}(\text{CO})_4]$ and $\text{fac-}[\eta^2\text{-}\{N,O\text{-C}_{10}\text{H}_6\text{ON(H)}\}\text{Re}(\text{CO})_3\text{X}]$

Keywords: 1-Nitroso-2-naphtholate ligand / 1,2-Naphthoquinone-2-imine ligand / Chelates / Rhenium complexes / Redox chemistry / CO_2 elimination

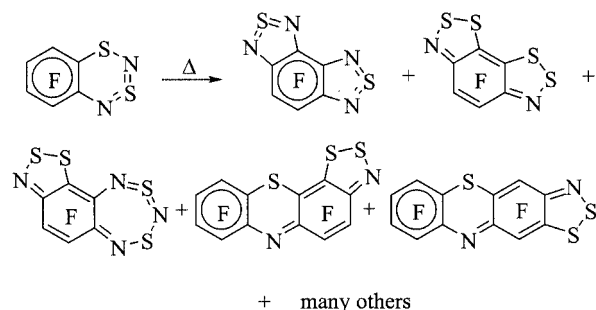


4099

V. V. Zhivonitko, A. Yu. Makarov,
I. Yu. Bagryanskaya, Y. V. Gatilov,
M. M. Shakirov, A. V. Zibarev*

New Polysulfur-Nitrogen Heterocycles by Thermolysis of 1,3λ⁴δ²,2,4-Benzodithiadiazines in the Hydrocarbon and Fluorocarbon Series

Keywords: Fluorescence / Fluorine / Nitrogen heterocycles / Radicals / Sulfur heterocycles / Thermolysis

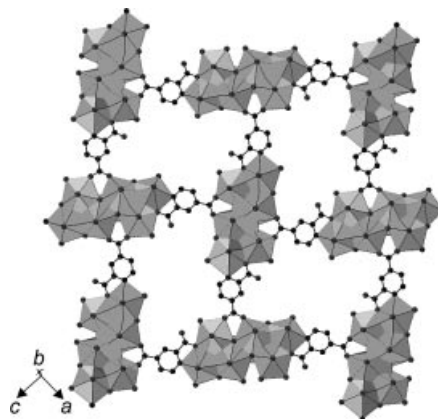


4109 Y.-Z. Zheng, M.-L. Tong,* X.-M. Chen



Synthesis, Structure and Photoluminescent Studies of Two Novel Layered Uranium Coordination Polymers Constructed from $\text{UO}(\text{OH})$ Polyhedra and Pyridinedicarboxylates

Keywords: Carboxylate ligands / Coordination polymers / Photoluminescence / Uranium

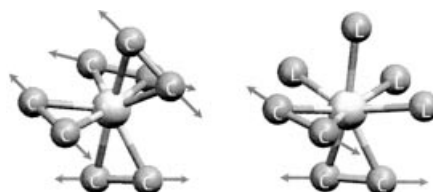


4118 D. Bayot, M. Devillers, D. Peeters*



Vibrational Spectra of Eight-Coordinate Niobium and Tantalum Complexes with Peroxo Ligands: A Theoretical Simulation

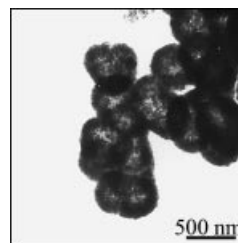
Keywords: Density functional calculations / IR spectroscopy / Niobium / Tantalum / Peroxo ligands / Raman spectroscopy



4124 S. Lei, K. Tang,* Q. Yang, H. Zheng

Solvothermal Synthesis of Metastable γ -MnS Hollow Spheres and Control of Their Phase

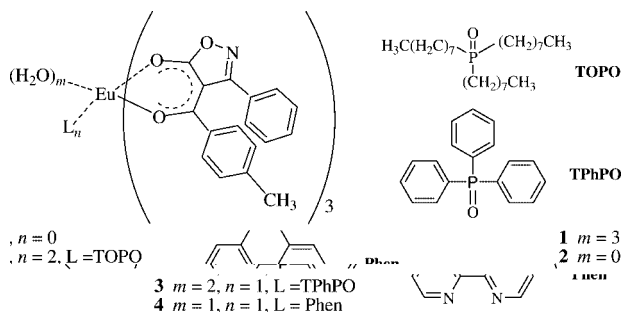
Keywords: Manganese / Nanostructures / Semiconductors / Solvothermal synthesis



4129 R. Pavithran, M. L. P. Reddy,*
S. A. Junior, R. O. Freire, G. B. Rocha,
P. P. Lima

Synthesis and Luminescent Properties of Novel Europium(III) Heterocyclic β -Diketone Complexes with Lewis Bases: Structural Analysis Using the Sparkle/AM1 Model

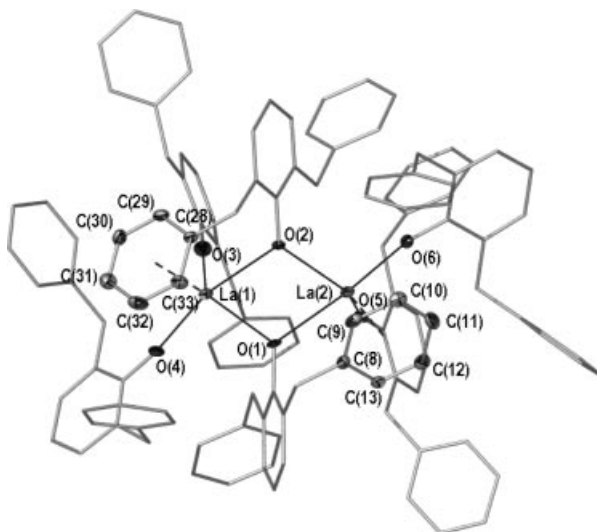
Keywords: Europium / Lewis bases / Luminescence / O ligands / Sparkle/AM1 model



4138 M. L. Cole, G. B. Deacon, P. C. Junk,*
K. M. Proctor, J. L. Scott, C. R. Strauss

Direct Syntheses and Structural Novelty of
Lanthanoid Aryloxides with Flexible Radial
Arms

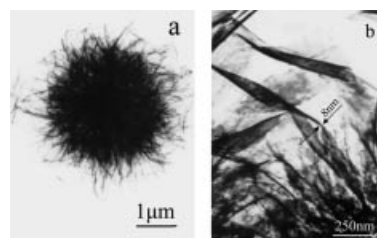
Keywords: Lanthanoids / Aryloxides / Benzyl group /
 π -Donors / Phenolates / X-ray crystal
structures



4145 J. Liu, Q. Wu,* Y. Ding*

Self-Assembly and Fluorescent Modification of
Hydroxyapatite Nanoribbon Spherulites

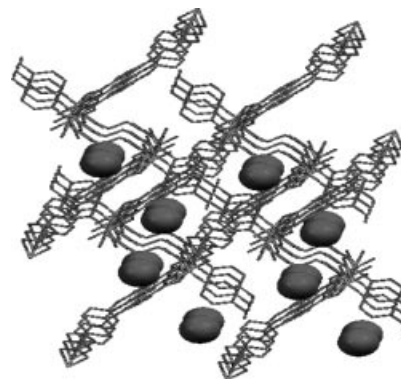
Keywords: Fluorescence / Hydroxyapatite / Nanostruc-
tures / Self-assembly



4150 C.-Y. Sun, X.-J. Zheng, S. Gao, L.-C. Li,
L.-P. Jin*

Multiple Regulated Assembly, Crystal Structures
and Magnetic Properties of Porous Coordination
Polymers with Flexible Ligands

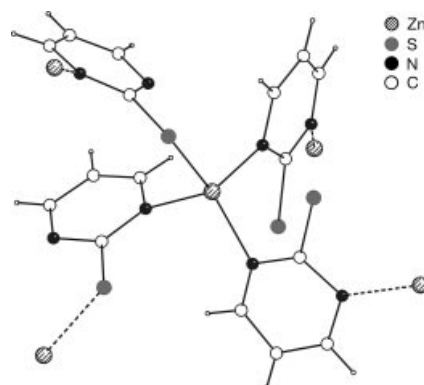
Keywords: Cobalt / Coordination polymers / Magnetic
properties / Nickel / Porous materials



4160 A. Eichhöfer,* G. Buth

Synthesis and Structure of the Group 12 Pyrim-
idinethiolate Complexes $3[\text{Zn}(\text{S}-2\text{-N}_2\text{C}_4\text{H}_3)_2]$,
 $2[\text{Cd}(\text{S}-2\text{-N}_2\text{C}_4\text{H}_3)_2]$, $[\text{Hg}(\text{S}-2\text{-N}_2\text{C}_4\text{H}_3)_2]$ and
 $[\text{Cd}(\text{S}-2\text{-N}_2\text{C}_4\text{H}_3)_2(\text{tmeda})]$

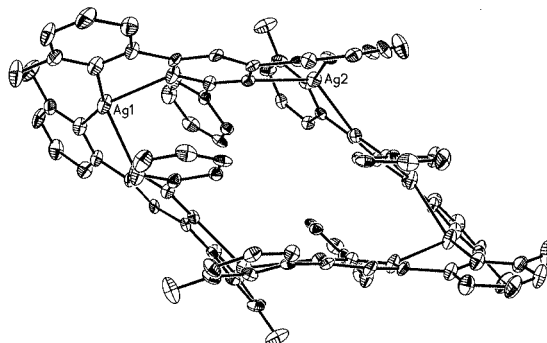
Keywords: Cadmium / IR spectroscopy / Mercury /
N,S ligands / Zinc



4168 V. Patroniak,* A. R. Stefankiewicz,
J.-M. Lehn, M. Kubicki

Self-Assembly and Characterization of Grid-Type
Copper(I), Silver(I), and Zinc(II) Complexes

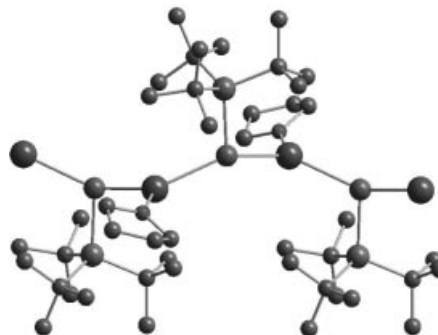
Keywords: Copper / Silver / Zinc / Supramolecular
chemistry / Self-assembly



4174 M. Westerhausen,* M. Krofta, P. Mayer,
H. Piotrowski

The Influence of the Neutral Coligand on the
Spectroscopic Properties and Crystal Structures of
Lithium Tri(*tert*-butyl)silylarsanides of the
Type [(L)LiAs(H)Si*t*Bu₃] (L = DME, THF)

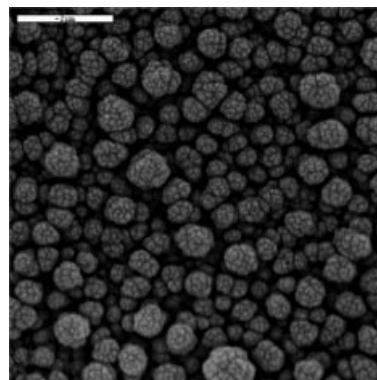
Keywords: Arsanes / Arsanides / Lithium / Lithiation /
Pnicogens



4179 E. S. Peters, C. J. Carmalt,* I. P. Parkin,
D. A. Tocher

Aerosol-Assisted Chemical Vapor Deposition
of NbS₂ and TaS₂ Thin Films from Pentakis(di-
methylamido)metal Complexes and 2-Methyl-
propanethiol

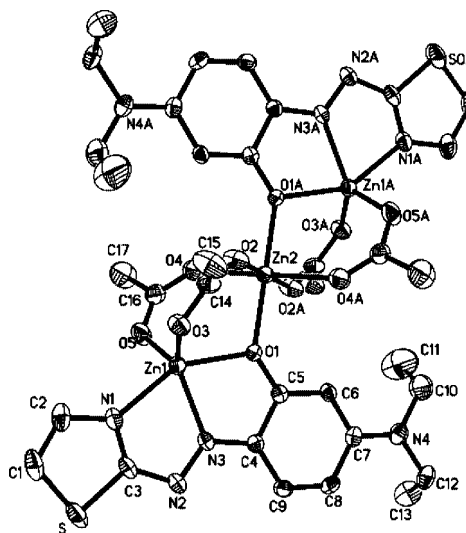
Keywords: Niobium disulfide / Tantalum sulfide / Thin
film / Aerosol-assisted CVD



4186 G. Zhang, S. Wang, Q. Gan, Y. Zhang,
G. Yang,* J. S. Ma, H. Xu

A Stable Trinuclear Zinc Cluster Assembled from
a Thiazolylazo Dye and Zinc Acetate: Pre-
paration, Structural Characterization and Spectro-
scopic Studies

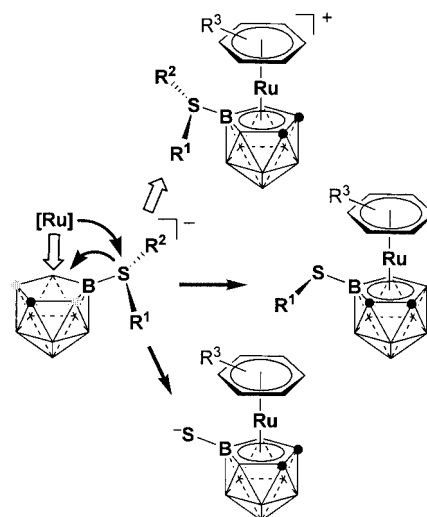
Keywords: Azo compounds / π interactions / UV/Vis
spectroscopy / Zinc



4193 J. G. Planas, C. Viñas, F. Teixidor,*
M. E. Light, M. B. Hursthouse,
H. R. Ogilvie

B-Substituted (Arene)ruthenacarborene–Sulfonium, –Thioether and –Mercaptan Complexes: Mild Single and Double Dealkylation and Structural Implications in the Antipodal Distance

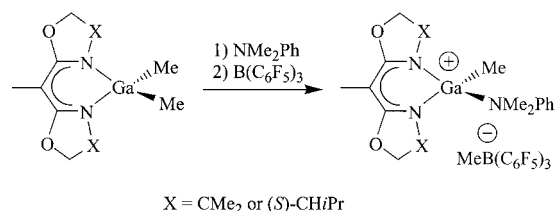
Keywords: Antipodal effect / (Arene)ruthenacarborenes / Carboranes / Charge-compensated ligands / Dealkylation



4206 S. Dagorne,* S. Bellemin-Laponnaz,*
A. Maisse-François, M.-N. Rager,
L. Jugé, R. Welter

Synthesis and Structure of Neutral and Cationic Gallium Complexes Incorporating Bis(oxazolinato) Ligands

Keywords: Cations / Gallium / Lewis acids / N ligands



4215 D. H. Nguyen, G. Laurenczy,
M. Urrutigoñi, P. Kalck*

A Hydride Route for the Palladium-Catalysed Cyclocarbonylation of Monoterpenes

Keywords: Carbonylation / Hydrides / Palladium / Terpenes

