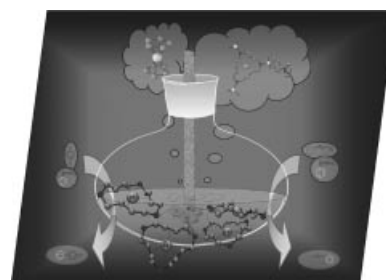


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COVER PICTURE

The cover picture shows a general cartoon of heterogeneous catalytic processes performed on Suzuki-type cross-coupling reactions. The submerged gear represents the hub in the system, holding the active sites of the catalysts which are triaza-triolefinic palladium(0) complexes. The catalysts are anchored through oxidative electropolymerization of the pyrrole groups contained in their structures, and can be monitored through the electroactivity of additional ferrocene entities also present. Details are discussed in the article by A. Llobet, A. Roglans et al. on p. 1601 ff.



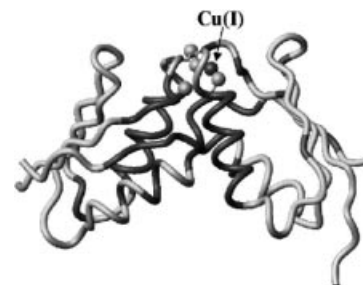
MICROREVIEW

Contents

1583 F. Arnesano, L. Banci, I. Bertini,*
 S. Ciofi-Baffoni

Perspectives in Inorganic Structural Genomics:
 A Trafficking Route for Copper

Keywords: Structural genomics / Copper / Metallo-
 proteins / Chaperone proteins

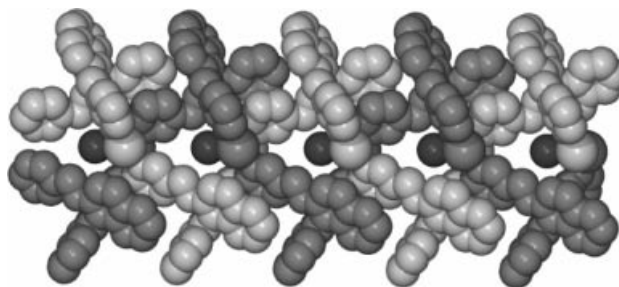


SHORT COMMUNICATIONS

1595 R. Wang, L. Xu, X. Li, Y. Li, Q. Shi,
Z. Zhou, M. Hong,* A. S. C. Chan*

New Types of Homochiral Helical Coordination Polymers Constructed by *exo*-Bidentate Binaphthol Derivatives

Keywords: Helical structures / Chirality / N ligands / Silver

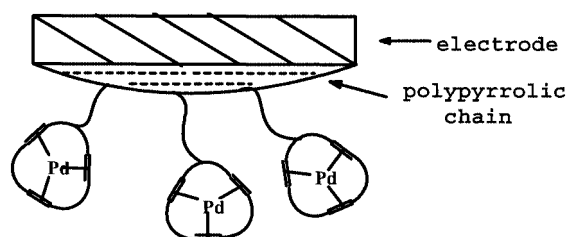


FULL PAPERS

1601 A. Llobet,* E. Masllorens, M. Rodríguez,
A. Roglans,* J. Benet-Buchholz

Syntheses, Structures and Redox Properties of New Macrocyclic Triazatriolefinic Pd⁰ Complexes and Their Polypyrrole Modified Electrodes – Application to Heterogeneous Catalytic Suzuki Cross-Coupling Reactions

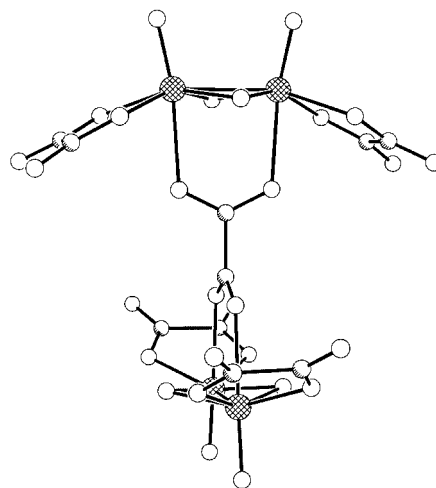
Keywords: Heterogeneous catalysis / Macrocyclic ligands / Palladium / Pyrroles / Modified electrodes / Electrochemistry



1611 B. Modec,* J. V. Brenčič, J. Koller

A Series of Molybdenum(V) Complexes with the Oxalato Ligand Engaged in Different Binding Roles – An Unusual Staggered Conformation of the μ_4 -Oxalate in $[\{\text{Mo}_2\text{O}_4(\eta^2\text{-C}_2\text{O}_4)_2\}_2(\mu_4\text{-C}_2\text{O}_4)]^{6-}$

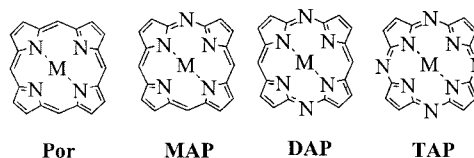
Keywords: Coordination modes / Molybdenum / Oxo ligands / Oxalate / Polyoxometalates



1621 H. Ogata, T. Fukuda, K. Nakai,
Y. Fujimura, S. Neya, P. A. Stuzhin,
N. Kobayashi*

Absorption, Magnetic Circular Dichroism, IR Spectra, Electrochemistry, and Molecular Orbital Calculations of Monoaza- and Opposite Diazaporphyrins

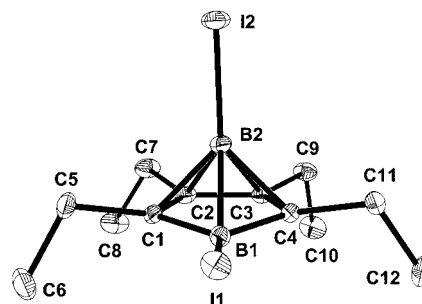
Keywords: Cyclic voltammetry / Density functional calculations / Magnetic circular dichroism / Porphyrinoids / UV/Vis spectroscopy



1630 Y. Nie, S. Schwegk, H. Pritzkow,
W. Siebert*

One-Pot Synthesis of 1,6-Diiodo-2,3,4,5-tetra-carba-*nido*-hexaboranes(6) and Mechanistic Studies on the Reaction System Alkynes/ BI_3 / $\text{NaK}_{2.8}$

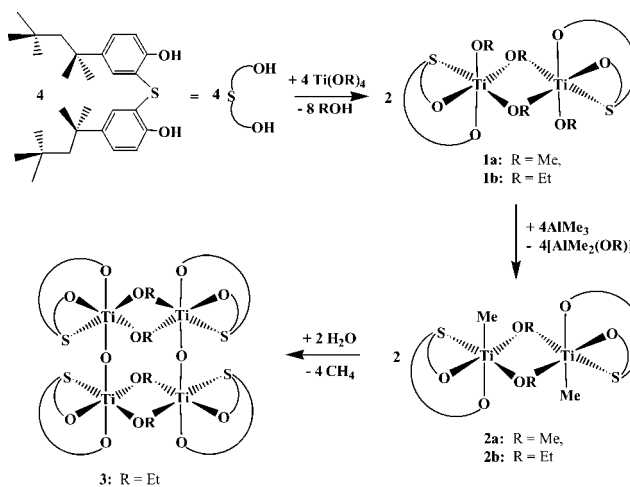
Keywords: Boron / Boranes / Carboranes / Heterocycles / Iodine bridges



1639 Z. Janas, L. B. Jerzykiewicz, K. Przybylak,
P. Sobota,* K. Szczegot

Titanium Complexes Stabilized by a Sulfur-Bridged Chelating Bis(aryloxo) Ligand as Active Catalysts for Olefin Polymerization

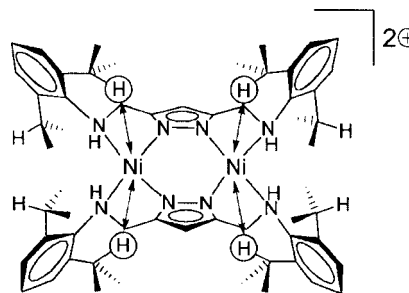
Keywords: Titanium / O ligands / S ligands / Polymerization / X-ray diffraction / Aluminum



1646 J. C. Röder, F. Meyer,* E. Kaifer,
H. Pritzkow

Pyrazolate-Based Dinucleating Ligands in L_2M_2 Scaffolds: Effects of Bulky Substituents and Co-ligands on Structures and $\text{M}\cdots\text{H}-\text{C}$ Interactions

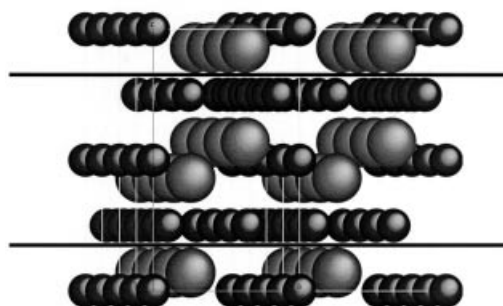
Keywords: Nickel / Palladium / Dinuclear complexes / N-ligands / Pyrazole ligands



1661 S. Pruvost, C. Hérold,* A. Hérold,
P. Lagrange

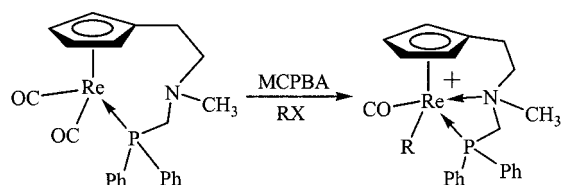
Structural Study of Novel Graphite–Lithium–Calcium Intercalation Compounds

Keywords: Calcium / Electron microscopy / Graphite / Intercalations / Lithium / X-ray diffraction



Selective Reaction of Aminorhenium Complexes and the Formation of Cp-N-P Tridentate Complexes

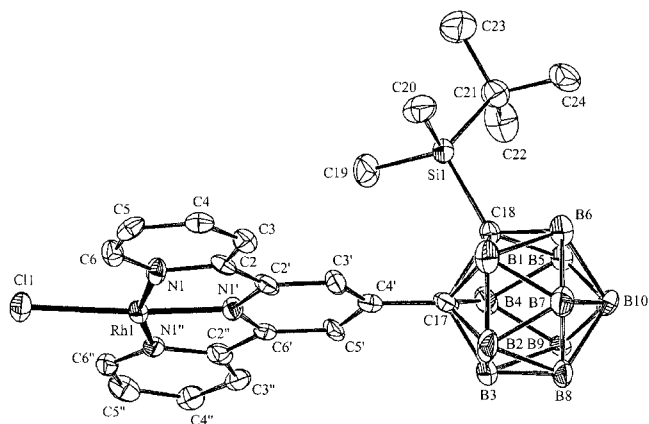
Keywords: Rhenium / Cyclopentadienes / N ligands / P ligands / Tridentate ligands



1675 B. C. de Pater, H.-W. Frühauf, K. Vrieze, R. de Gelder, E. J. Baerends, D. McCormack, M. Lutz, A. L. Spek, F. Hartl*

Strongly Nucleophilic Rh^I Centre in Square-Planar Complexes with Terdentate (κ^3) 2,2':6',2''-Terpyridine Ligands: Crystallographic, Electrochemical and Density Functional Theoretical Studies

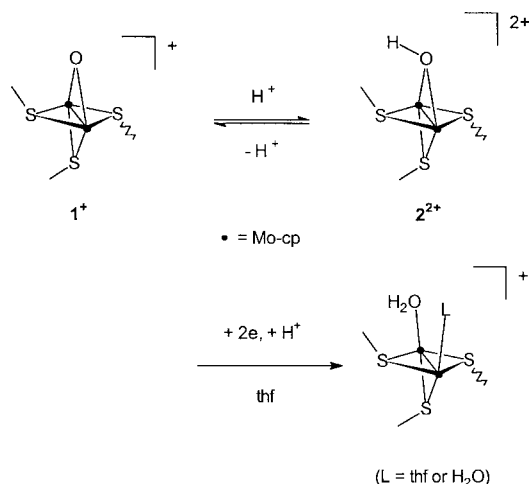
Keywords: Rhodium / Tridentate ligands / X-ray diffraction / Cyclic voltammetry / Density functional calculations



1687 M. Le Hénanf, C. Le Roy, K. W. Muir, F. Y. Pétillon, P. Schollhammer, J. Talarmin*

Electrochemical Studies of Complexes with Oxo- or Hydroxo-Bridged $\{\text{Mo}_2(\mu\text{-SMe})_3\}^+$ Centers: Cleavage of the Oxygen Bridge and Generation of Substrate-Binding Sites

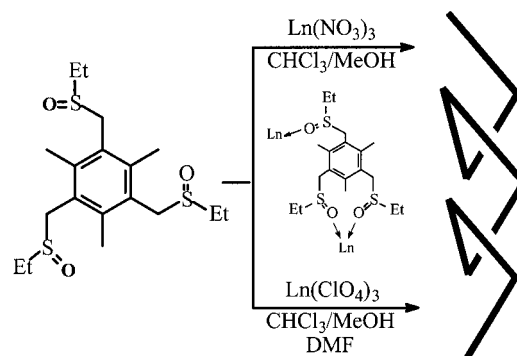
Keywords: Dinuclear complexes / Molybdenum / Electrochemical reduction / Oxo, hydroxo bridges / Protonations / Aqua ligands



1701 J.-R. Li, X.-H. Bu,* R.-H. Zhang

The First (Trisulfoxide)metal Complexes: Synthesis and Crystal Structures of the 1D Lanthanide Coordination Polymers $[\text{Ln}(\text{L})(\text{MeOH})(\text{NO}_3)_3]_n$ and $\{[\text{La}(\text{L})(\text{DMF})_5](\text{ClO}_4)_3\}_n$ [$\text{L} = 1,3,5$ -Tris(ethylsulfinyl)-2,4,6-trimethylbenzene, $\text{Ln} = \text{La}^{\text{III}}$ and Nd^{III}]

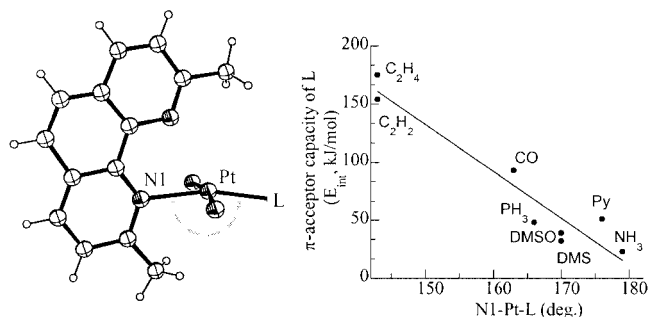
Keywords: Coordination polymers / Helical structures / Lanthanides / Sulfoxide



1705 F. P. Fanizzi,* N. Margiotta, M. Lanfranchi,
A. Tiripicchio, G. Pacchioni, G. Natile*

A Molecular Tool for Measuring the Electron-Acceptor Ability of Ligands from Crystallographic Data

Keywords: Ab initio calculations / NMR spectroscopy / π ligands / Platinum / X-ray diffraction

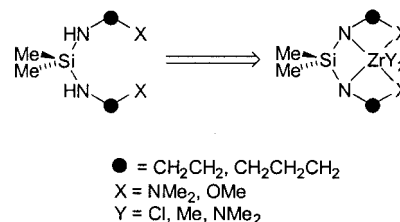


1714 V. Passarelli,* F. Benetollo, P. Zanella



The Ligating Ability of Functionalised Diaminodimethylsilanes towards Zirconium(IV)

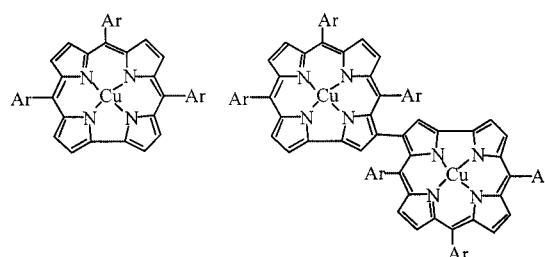
Keywords: Chelates / NMR spectroscopy / N_2O ligands / Silanes / Zirconium



1724 I. Luobeznova, L. Simkhovich, I. Goldberg,*
Z. Gross*

Electronic Structures and Reactivities of Corrole–Copper Complexes

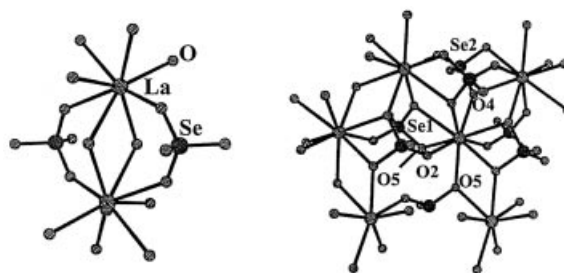
Keywords: Copper / Cyclic voltammetry / Electronic structure / Porphyrinoids / Structure elucidation



1733 D. Udayakumar, M. Dan, C. N. R. Rao*

The First Amine-Templated Layered Metal Selenates

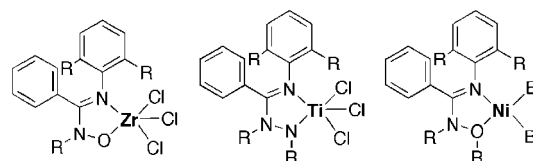
Keywords: Open-framework / Selenium / Hydrothermal chemistry / Amines / Template synthesis



1740 A. Krajete, G. Steiner, H. Kopacka,
K.-H. Ongania, K. Wurst, M. O. Kristen,
P. Preishuber-Pflügl, B. Bildstein*

Iminohydroxamato Early and Late Transition Metal Halide Complexes – New Precatalysts for Aluminoxane-Cocatalyzed Olefin Insertion Polymerization

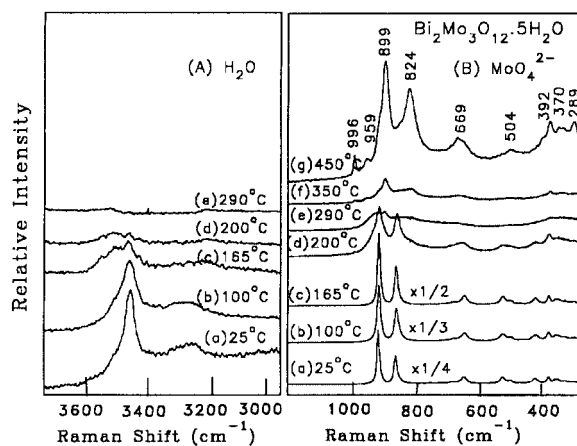
Keywords: N_2O ligands / N ligands / Chelates / Transition metals / Polymerization



1753 A. Ghule, S.-H. Tzing, J.-Y. Chang,
K. Ghule, H. Chang, Y. C. Ling*

Synthesis and Monitoring of α - $\text{Bi}_2\text{Mo}_3\text{O}_{12}$ Catalyst Formation using Thermo-Raman Spectroscopy

Keywords: Thermo-Raman spectroscopy / Thermochemistry / Dehydration / Phase transformations / Bismuth / α - $\text{Bi}_2\text{Mo}_3\text{O}_{12}$ catalyst



1763 S. Vaduvescu, P. G. Potvin*



Linear Multinuclear Ru^{II} Photosensitizers

Keywords: Ruthenium / Tridentate ligands / Bridging ligands / Electron transfer / Photochemistry

