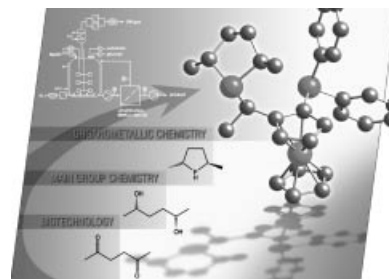


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COVER PICTURE

The cover picture shows the successful cooperation between biotechnology, main-group chemistry and organometallic chemistry to generate a highly enantioselective diphosphane ligand for homogeneous catalysis. The details are described in the article by W. Braun, A. Salzer et al. on p. 2235 ff. The work was sponsored by the Deutsche Forschungsgemeinschaft (DFG) within the Collaborative Research Centre (SFB 380) "Asymmetric Syntheses with Chemical and Biological Methods". The authors are indebted to Mr. M. Stauten, Cologne, for his help concerning the artwork of the cover picture.



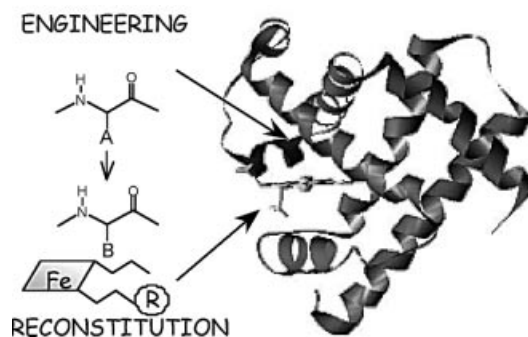
MICROREVIEW

Contents

2203 R. Roncone, E. Monzani, S. Nicolis,
 L. Casella*

Engineering and Prosthetic-Group Modification
 of Myoglobin: Peroxidase Activity, Chemical
 Stability and Unfolding Properties

Keywords: Bioinorganic chemistry / Heme proteins /
 Enzyme models / Protein engineering /
 Structure-activity relationships / Myoglobin

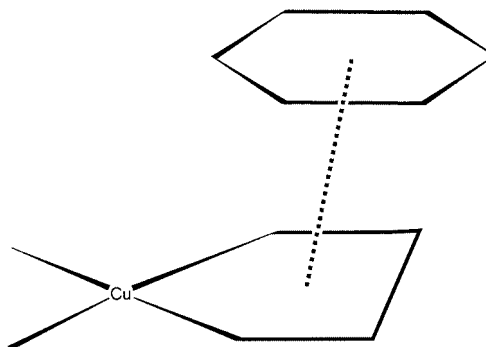


SHORT COMMUNICATIONS

2215 Z. D. Tomić,* S. B. Novaković, S. D. Zarić*

Intermolecular Interactions between Chelate Rings and Phenyl Rings in Square-Planar Copper(II) Complexes

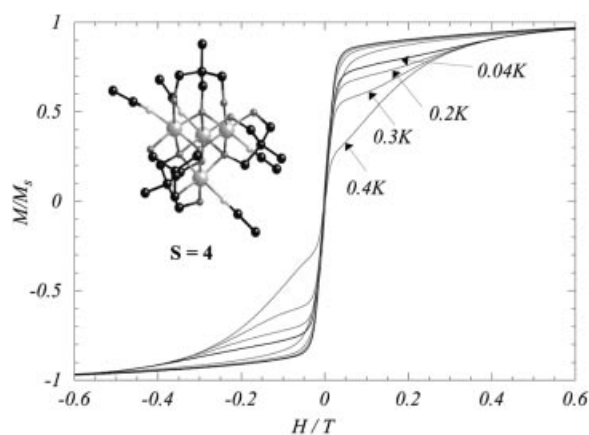
Keywords: Chelate rings / Delocalized π -bonds / Copper / Aromaticity / Stacking interactions



2219 M. Moragues-Cánovas, M. Helliwell, L. Ricard, É. Rivière, W. Wernsdorfer, E. Brechin, T. Mallah*

An Ni_4 Single-Molecule Magnet: Synthesis, Structure and Low-Temperature Magnetic Behavior

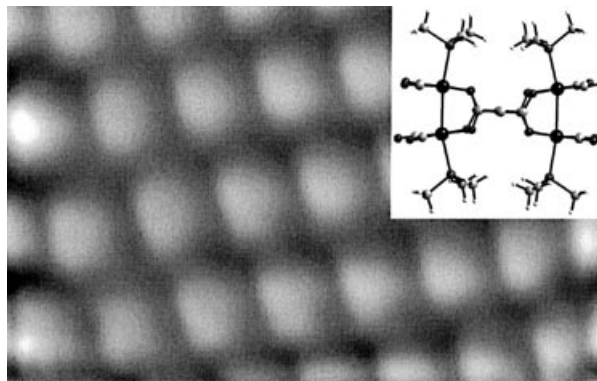
Keywords: Nickel / Ferromagnetism / Single-molecule studies / Cubane complexes / Tripodal ligands



2223 D.-L. Shieh, K.-B. Shiu, J.-L. Lin*

Scanning Tunneling Study of the Assembly of Octa- and Tetra-ruthenium Supermolecules on Graphite

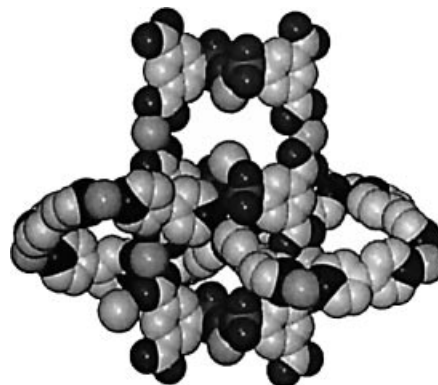
Keywords: Supramolecular chemistry / Scanning tunneling microscopy / Graphite / Ruthenium



2228 X. Li, R. Cao,* D. Sun, W. Bi, D. Yuan

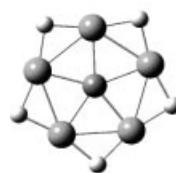
A Novel 3-D Self-Penetrating Topological Network Assembled by Mixed Bridging Ligands

Keywords: Mixed bridging ligands / Interlocking / Self-penetrating



D_{5h} $\text{Cu}_5\text{H}_5\text{X}$: Pentagonal Hydrocopper Cu_5H_5 Containing Pentacoordinate Planar Nonmetal Centers ($\text{X} = \text{B}, \text{C}, \text{N}, \text{O}$)

Keywords: Ab initio calculations / Density functional calculations / Hydrocopper / Pentacoordinate planar carbon / Electronic structures

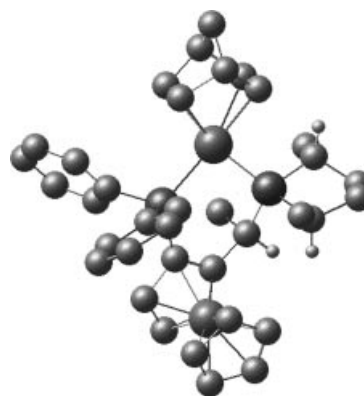
 $D_{5h} \text{Cu}_5\text{H}_5\text{C}$ HOMO (A_2'')

FULL PAPERS

- 2235 W. Braun, B. Calmuschi, J. Haberland, W. Hummel, A. Liese, T. Nickel, O. Stelzer, A. Salzer*

Optically Active Phospholanes as Substituents on Ferrocene and Chromium-Arene Complexes

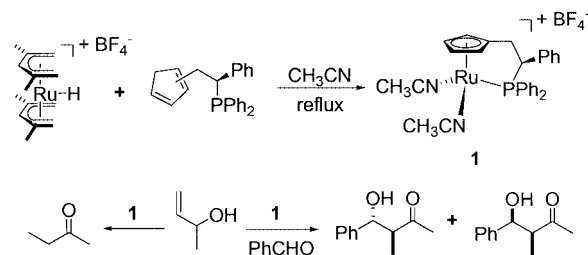
Keywords: Iron / Chromium / Sandwich complexes / P ligands / Asymmetric catalysis



- 2244 A. Doppiu, A. Salzer*

A New Route to Cationic Half-Sandwich Ruthenium(II) Complexes with Chiral Cyclopentadienylphosphane Ligands

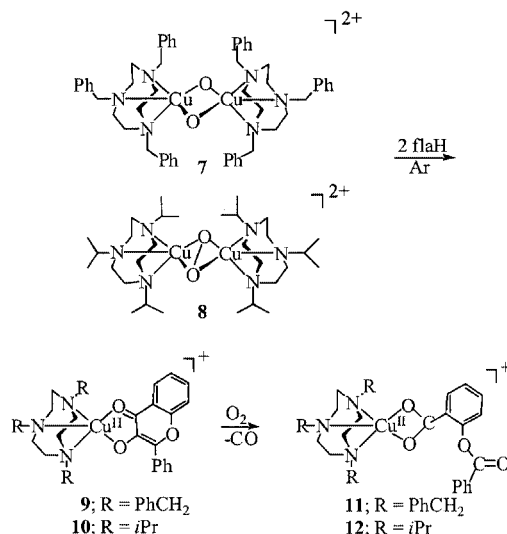
Keywords: Asymmetric catalysis / Constrained geometry ligands / Cyclopentadienyl ligands / P ligands / Ruthenium



- 2253 J. Kaizer, J. Pap, G. Speier,* L. Párkányi

The Reaction of $\mu\text{-}\eta^2\text{:}\eta^2$ -Peroxo- and Bis(μ -oxo)-dicopper Complexes with Flavonol

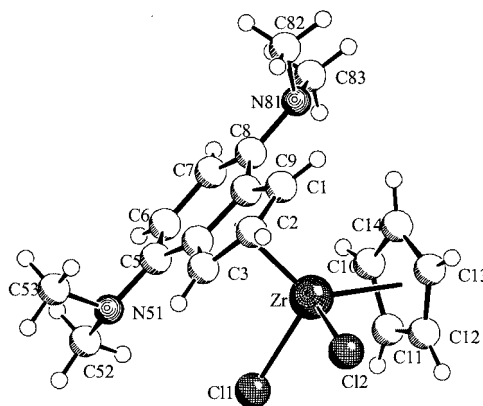
Keywords: Quercetinase / Model compounds / Copper / Oxygen / Flavonol



2260 J. Cano Sierra, S. G. Kehr, R. Fröhlich,
G. Erker*

A Fulvene Route to Group 4 Metallocene
Complexes Bearing 4,7-Bis(dimethylamino)-
Substituted Indenyl Ligands

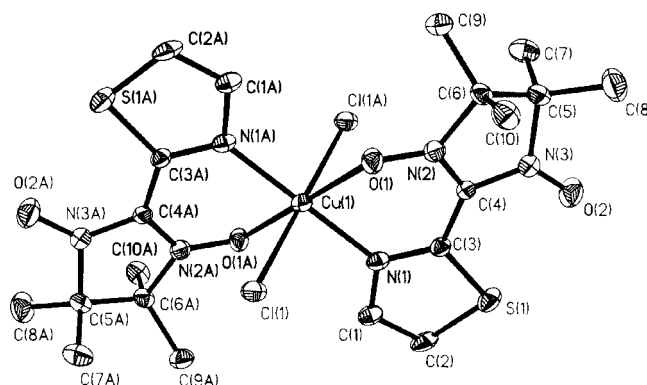
Keywords: Aminofulvenes / Cyclopentadienide / Zirconium / Ring-closure / Sandwich complexes



2266 L.-Y. Wang, L.-C. Li, D.-Z. Liao,
Z.-H. Jiang,* S.-P. Yan

Synthesis, Crystal Structure and Magnetic Properties of A New Thiazolyl-Substituted Nitronyl Nitroxide and Its Copper(II) Complexes

Keywords: Thiazole radicals / Nitronyl nitroxide / Copper / Magnetic properties

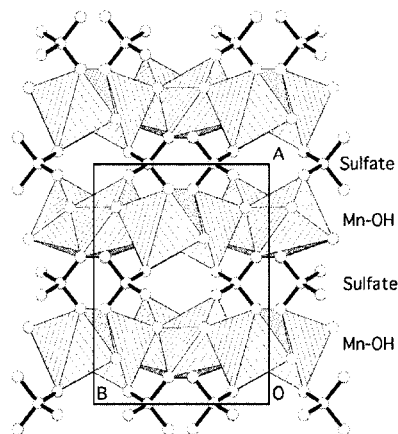


2272 M. Ben Salah, S. Vilminot,* T. Mhiri,
M. Kurmoo



Synthesis, Crystal Structure, and Magnetic Properties of $\text{Mn}_2(\text{OH})_2\text{SO}_4$: A Novel Layered Hydroxide

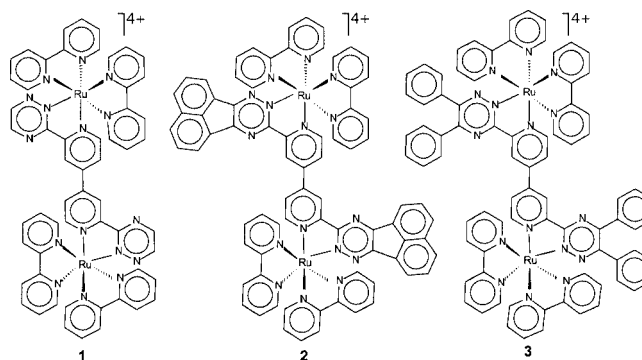
Keywords: Hydroxysulfate / Hydrothermal synthesis / Magnetic properties / Manganese



2277 C.-W. Jiang

Dimeric 2,2'-Bipyridylruthenium(II) Complexes Containing 2,2'-Bis(1,2,4-triazin-3-yl)-4,4'-bipyridine-Like Bridging Ligands: Syntheses, Characterization and DNA Binding

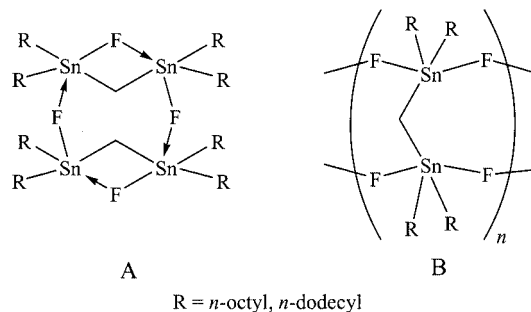
Keywords: Dinuclear complexes / Ruthenium / DNA binding modes / Enantioselectivity



2283 N. Chaniotakis,* K. Jurkschat,* D. Müller,
K. Perdikaki, G. Reeske

Bis[di-*n*-alkyl(fluoro)stannyl]methanes, (R₂FSn)₂-CH₂ (R = *n*-octyl, *n*-dodecyl): Stable Fluoride-Selective Carriers

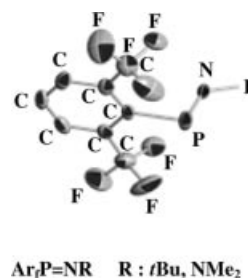
Keywords: Tin / Fluorine / Anion carrier / NMR spectroscopy



2289 K. Miqueu, J.-M. Sotiropoulos,
G. Pfister-Guillouzo,* V. L. Rudzevich,
H. Gornitzka, V. Lavallo, V. D. Romanenko

Syntheses, Structures, Bonding and Photoelectron Spectra of “Push-Pull”-Substituted *P*-[2,6-Bis(trifluoromethyl)phenyl]-σ²λ³-iminophosphanes

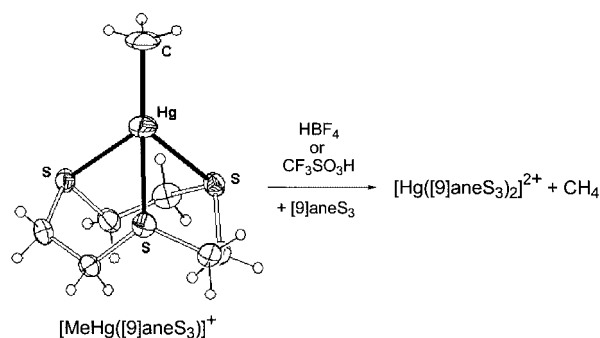
Keywords: Iminophosphanes / X-ray diffraction / Photoelectron spectroscopy / Density functional calculations / Ionization potentials



2301 M. Wilhelm, S. Deeken, E. Berssen,
W. Saak, A. Lützen, R. Koch, H. Strasdeit*

The First Structurally Authenticated Organomercury(1+) Thioether Complexes – Mercury–Carbon Bond Activation Related to the Mechanism of the Bacterial Enzyme Organomercurial Lyase

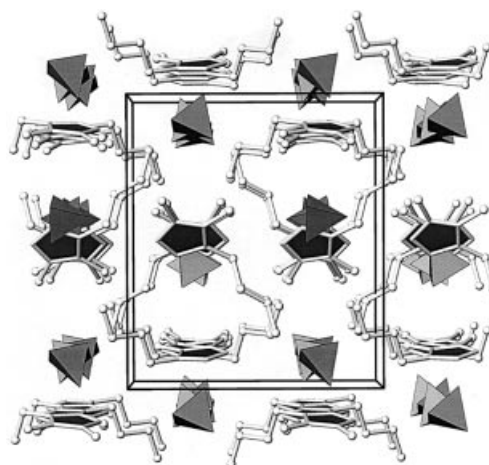
Keywords: Bioinorganic chemistry / Enzyme models / Ligand effects / Mercury / S ligands



2313 P. Kölle, R. Dronskowski*

Synthesis, Crystal Structures and Electrical Conductivities of the Ionic Liquid Compounds Butyldimethylimidazolium Tetrafluoroborate, Hexafluorophosphate and Hexafluoroantimonate

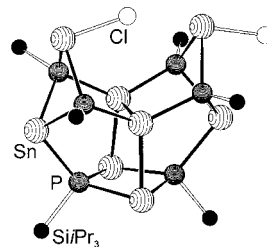
Keywords: Electrochemistry / Ionic liquids / Packing efficiency / X-ray diffraction



2321 D. Nikolova, C. von Hänisch,* A. Adolf

Synthesis and Characterisation of Novel Main Group Element Clusters with Tin-Phosphorus, Tin-Arsenic, and Germanium-Phosphorus Skeletons

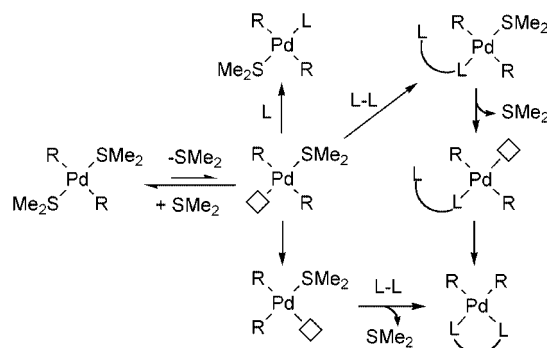
Keywords: Tin / Phosphorus / Arsenic / Germanium / Cluster compounds



2326 C. Bartolomé, P. Espinet,* J. M. Martín-Álvarez, F. Villafañe

Bis(fluoromesityl) Palladium Complexes, Archetypes of Steric Crowding and Axial Protection by *ortho* Effect – Evidence for Dissociative Substitution Processes – Observation of ^{19}F – ^{19}F Through-Space Couplings

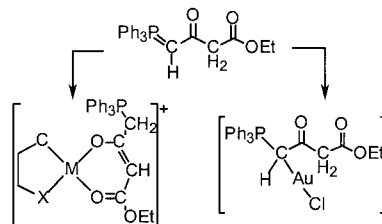
Keywords: Palladium / Dissociative substitution / Fluorine / Bulky ligands / Steric crowding / Through-space coupling



2338 M. Carbó, L. R. Falvello, R. Navarro,* T. Soler, E. P. Urriolabeitia*

Different Coordination Modes of the Polyfunctional Ylide $\text{Ph}_3\text{P}=\text{C}(\text{H})\text{C}(\text{O})\text{CH}_2\text{C}(\text{O})\text{OEt}$: C- vs. O,O'-Bonding in Pd^{II} , Pt^{II} and Au^{I} Complexes

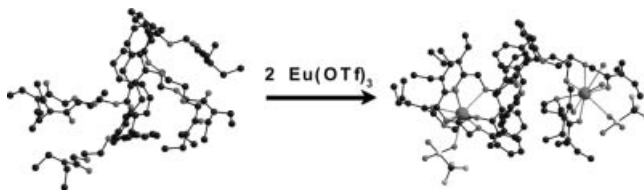
Keywords: Palladium / Platinum / Gold / Ylides / Structure elucidation



2348 F. de M. Ramírez, L. Charbonnière, G. Muller, J.-C. G. Bünzli*

Tuning the Stoichiometry of Lanthanide Complexes with Calixarenes: Bimetallic Complexes with a Calix[6]arene Bearing Ether-Amide Pendant Arms

Keywords: Lanthanides / Calixarenes / Europium / Luminescence

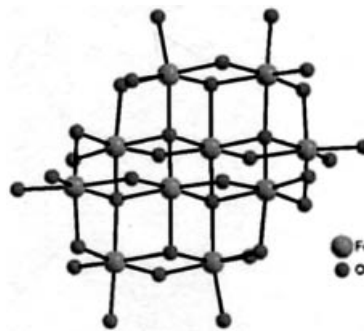


2356 T. Glaser,* T. Lügger, R.-D. Hoffmann



Iron Complexes with the Alcoholato Donor-Rich Ligand 4-*tert*-Butyl-2,6-bis(hydroxymethyl)-phenol: Synthesis and Characterization of a Tetra-Anionic Fe_2 Complex and a Neutral $\text{Fe}_{10}\text{Na}_4$ Complex

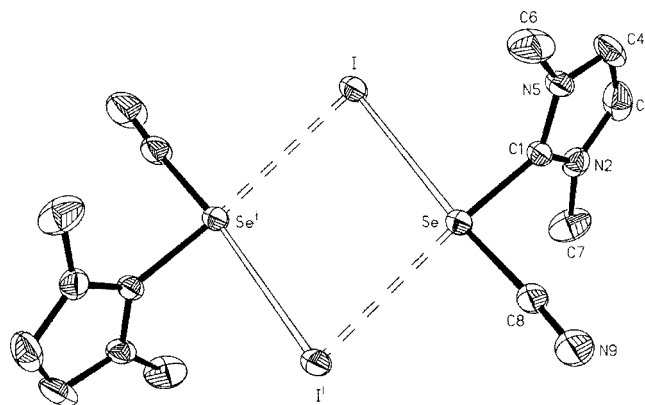
Keywords: Iron / O ligands / Oxo ligands / Bridging ligands / Hydrogen bonds



2363 M. C. Aragoni, M. Arca, F. Demartin, F. A. Devillanova,* A. Garau, P. Grimaldi, F. Isaia, F. Lelj, V. Lippolis, G. Verani

First ICN Adduct with a Selenium Donor ($\text{R} = \text{Se}$): Is It an Ionic $[\text{RSeCN}]^+\text{I}^-$ or a “T-Shaped” $\text{R}(\text{I})\text{SeCN}$ Hypervalent Compound?

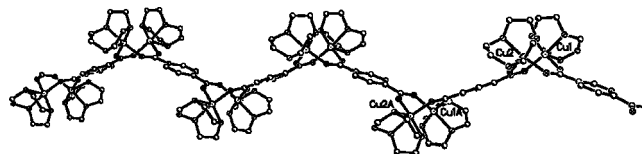
Keywords: Density functional calculations / Donor-acceptor systems / ICN / Hypervalent compounds / Se ligands



2369 P. Cheng,* S.-P. Yan,* C.-Z. Xie, B. Zhao, X.-Y. Chen, X.-W. Liu, C.-H. Li, D.-Z. Liao, Z.-H. Jiang, G.-L. Wang

Ferromagnetic and Antiferromagnetic Polymeric Complexes with the Macrocyclic Ligand 1,4,7-Triazacyclononane

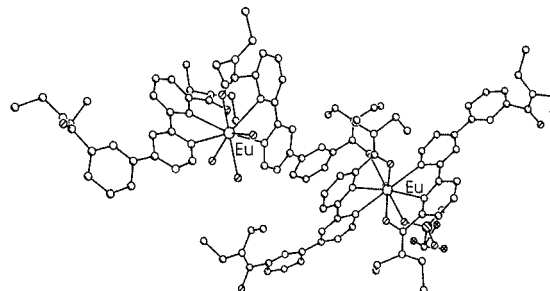
Keywords: Benzenedicarboxylic acids / Polymer chains / Magnetic properties / Copper



2379 V. Patroniak, P. N. W. Baxter, J.-M. Lehn,* Z. Hnatejko, M. Kubicki

Synthesis and Luminescence Properties of New Dinuclear Complexes of Lanthanide(III) Ions

Keywords: Dinuclear complexes / Lanthanides / Bis(tridentate) ligands / Self-assembly





Mechanism of Oxidation of (olefin)Rh^I and -Ir^I Complexes by H₂O₂

Keywords: Density functional calculations / Iridium / Oxidation / Oxygenation / Rhodium

