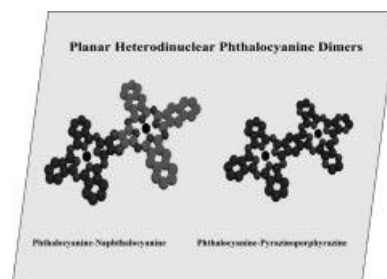


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COVER PICTURE

The cover picture shows planar heterodinuclear phthalocyanine (Pc) dimers consisting of Pc and pyrazinoporphyrazine and of Pc and naphthalocyanine. In the picture, red spheres indicate nitrogen atoms. These dimers commonly show broad absorption bands between ca. 500 and 1000 nm, while the differential pulse voltammetry and molecular orbital calculations suggest that the dimers are unstable to oxidation, and that the two relatively independent chromophore units interact. Details are discussed in the article by N. Kobayashi and H. Ogata on p. 906ff.



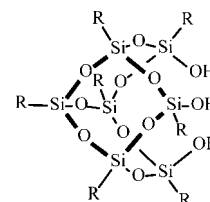
MICROREVIEW

Contents

675 R. W. J. M. Hanssen, R. A. van Santen,
 H. C. L. Abbenhuis*

The Dynamic Status Quo of Polyhedral Silses-
 quioxane Coordination Chemistry

Keywords: Catalysis / Organometallic chemistry / Si
 ligands / Silsesquioxanes / Silanol



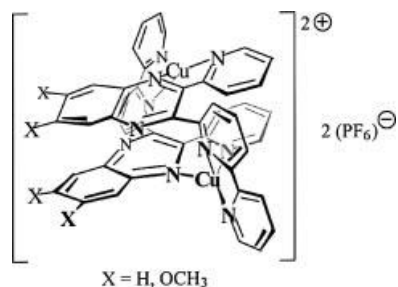
SHORT COMMUNICATIONS

685 F. Heitzler,* S. Dias, M. Neuburger



Dimeric Metallo-Organic Supramolecular Quinoxaline Stacking Synthons

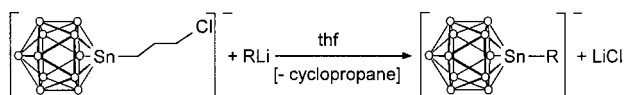
Keywords: Supramolecular chemistry / Helical structures / Heterocycles / Stacking interactions / Self-assembly / Sandwich complexes



689 B. Ronig, T. Bick, I. Pantenburg, L. Wesemann*

Stannaborate Chemistry: Nucleophilic Substitution at the Cluster Sphere

Keywords: Boranes / Boron / Tin / Nucleophilic substitution



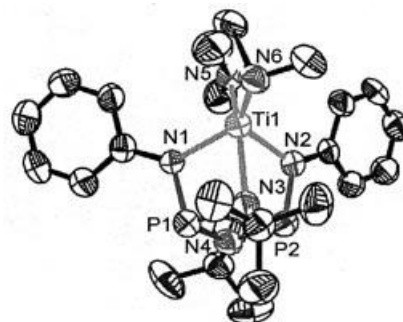
FULL PAPERS

695 K. V. Axenov, V. V. Kotov, M. Klinga, M. Leskelä, T. Repo*



New Bulky Bis(amino)cyclodiphosph(III)azanes and Their Titanium(IV) Complexes: Synthesis, Structures and Ethene Polymerization Studies

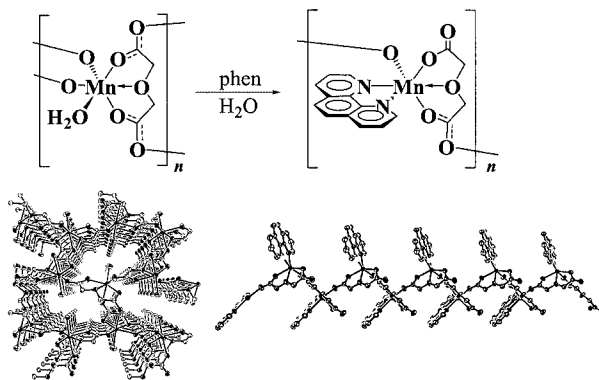
Keywords: Phosphazenes / Titanium / Homogeneous catalysis / Polymerization



707 A. Grirrane, A. Pastor, E. Álvarez, C. Mealli, A. Ienco, P. Rosa, F. Montilla, A. Galindo*

Manganese Oxydiacetate Complexes: Synthesis, Structure and Magnetic Properties

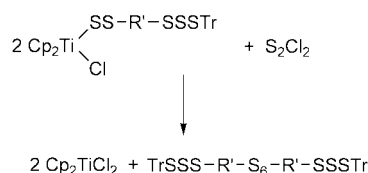
Keywords: Manganese / Tridentate ligands / Coordination modes / Magnetic properties



718 V. Münchow, R. Steudel*

Preparation of 17 Sulfur-Rich Chain-Like Thiaalkanes $\text{R}-\text{S}_x-\text{R}'-\text{S}_y-\text{R}$ and $\text{R}-\text{S}_x-\text{R}'-\text{S}_y-\text{R}'-\text{S}_z-\text{R}$ ($x, y, z > 2$) from Titanocene Thiolate Complexes

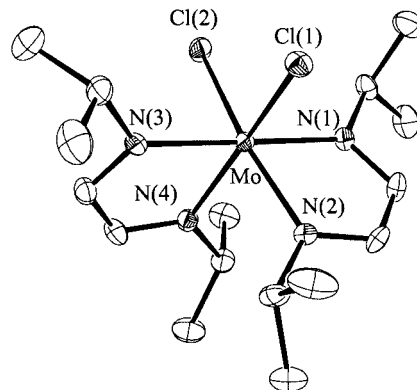
Keywords: Alkanes / Ligand effects / Sandwich compounds / Sulfur / Titanium



726 F. Stoffelbach, B. Rebière, R. Poli*

A Bis(diazadiene) Adduct of MoCl_2 : Mononuclear, Octahedral, Undistorted and Diamagnetic

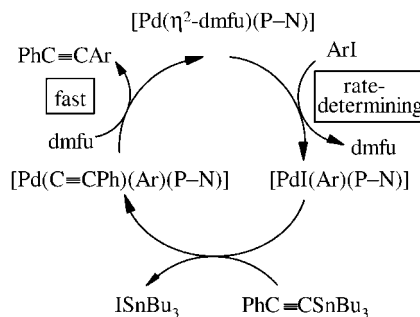
Keywords: Density functional calculations / Magnetic properties / Molybdenum / N ligands / X-ray diffraction



732 B. Crociani,* S. Antonaroli, L. Canovesi,
P. Uguagliati, F. Visentin

Kinetic Studies of the Oxidative Addition and Transmetalation Steps Involved in the Cross-Coupling of Alkynyl Stannanes with Aryl Iodides Catalysed by η^2 -(Dimethyl fumarate)-(iminophosphane)palladium(0) Complexes

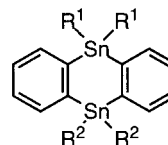
Keywords: Palladium / N,P ligands / Kinetics / Cross-coupling



743 M. Saito,* N. Henzan, M. Nitta,
M. Yoshioka

Synthesis, Structures and Reactions of Novel 9,10-Dihydro-9,10-distannaanthracenes

Keywords: Halogenation / Synthesis design / Tin

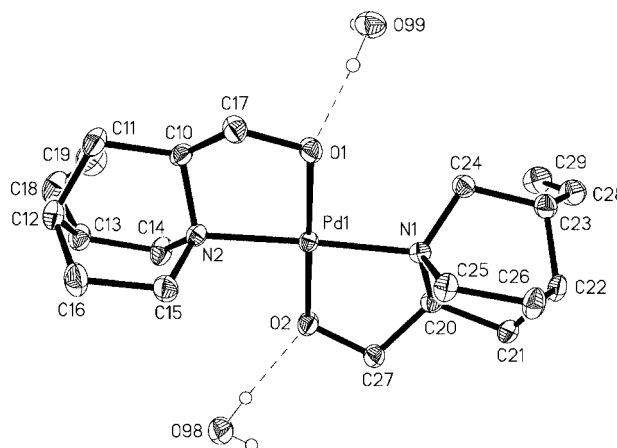


$R^1 = R^2 = \text{Me}$
 $R^1 = R^2 = p\text{-OMeC}_6\text{H}_4$
 $R^1 = \text{Me}, R^2 = t\text{-Bu}$
 $R^1 = p\text{-OMeC}_6\text{H}_4, R^2 = \text{Me}$
 $R^1 = R^2 = \text{Cl}$
 $R^1 = R^2 = \text{I}$

749 M. Fild, C. Thöne,* S. Tötös

Synthetic and Structural Studies of Pd^{II} and Pt^{II} Complexes with Quincorine and Quincoridine Derivatives

Keywords: N,P ligands / Heterocycles / Palladium / Platinum / Bioinorganic chemistry

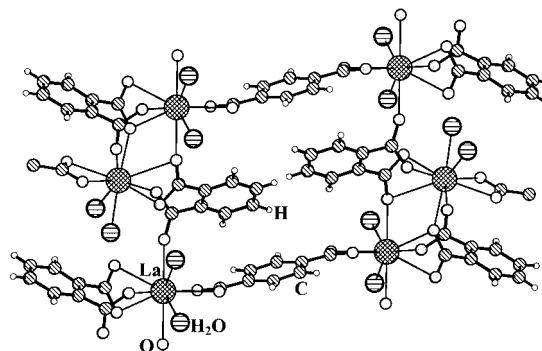


762 A. Thirumurugan, S. Natarajan*



Inorganic–Organic Hybrid Compounds: Synthesis and Structures of New Metal Organic Polymers Synthesized in the Presence of Mixed Dicarboxylates

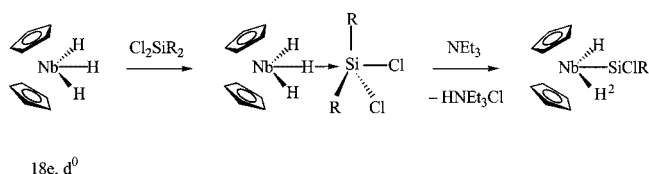
Keywords: Carboxylate ligands / Coordination modes / Thermochemistry / Lanthanides



771 K. Y. Dorogov, A. V. Churakov,
L. G. Kuzmina, J. A. K. Howard,
G. I. Nikonov*

Direct Hydride/Silyl Exchange – Synthesis and X-ray Study of the Bis(silyl) Complex $[\text{Cp}_2\text{NbH}(\text{SiCl}_3)_2]$

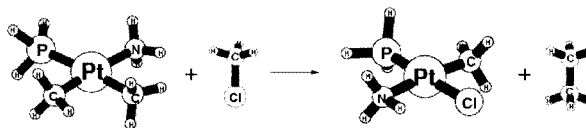
Keywords: Hydride ligands / Niobium / Si ligands / X-ray diffraction



776 D. Sturmayer, U. Schubert*

A Comparison of the Reactivity of Chloroalkanes and Chlorosilanes towards Activated Pt^{II} Complexes by DFT Calculations

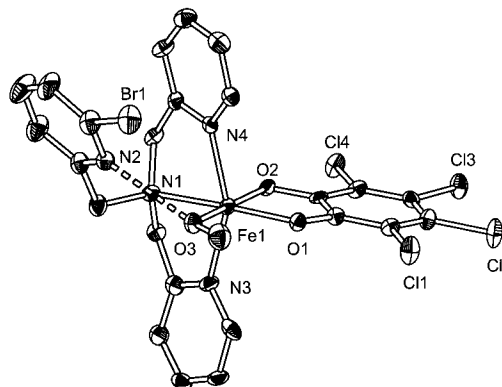
Keywords: Hemilabile ligands / Oxidative addition / Reductive elimination / Density functional calculations / Silanes



783 M. Merkel, D. Schnieders, S. M. Baldeau,
B. Krebs*

Structural Snapshots of a Dynamic Coordination Sphere in Model Complexes for Catechol 1,2-Dioxygenases

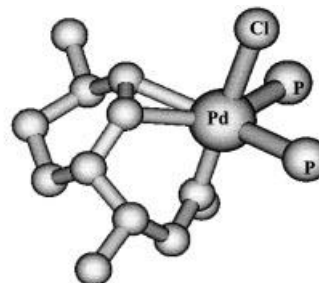
Keywords: Iron / Tripodal ligands / Coordination modes / Enzymes



791 G. Lenoble, C. Lacaze-Dufaure,
M. Urrutigoity, C. Mijoule, P. Kalck*

Tandem Palladium-Catalyzed Cyclocarbonylation of Isolimonene: A Mechanistic Investigation and Theoretical Calculations on the Fully Diastereoselective Step

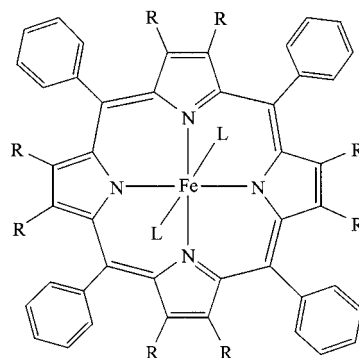
Keywords: Asymmetric induction / Cyclocarbonylation / Density functional calculations / Homogeneous catalysis / NMR spectroscopy / Palladium



798 Y. Ohgo,* T. Ikeue, M. Takahashi,
M. Takeda, M. Nakamura*

Anomalous Difference in Magnetic Behavior between Highly Saddled Iron(III) Porphyrin Complexes in the Solid State

Keywords: Iron / Porphyrinoids / Spin crossover / Magnetic properties



$[\text{Fe}(\text{OMTPP})\text{L}_2]^+$ (R = Methyl)

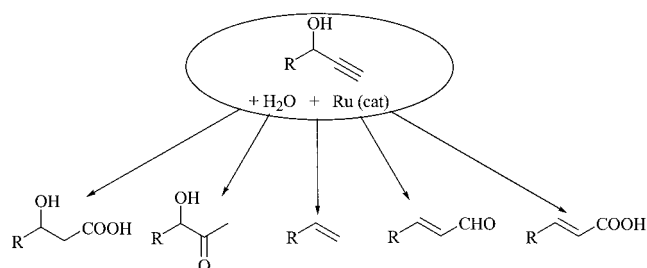
$[\text{Fe}(\text{OETPP})\text{L}_2]^+$ (R = Ethyl)

L = DMAP, Py

810 N. d'Alessandro, M. Di Deo, M. Bonetti,
L. Tonucci, A. Morvillo, M. Bressan*

Hydration of Propargylic Alcohols by Ruthenium Catalysts, with Dominant Anti-Markovnikov Regioselectivity, Formation of α,β -Unsaturated Products and Catalytic Decarbonylation to 1-Alkenes

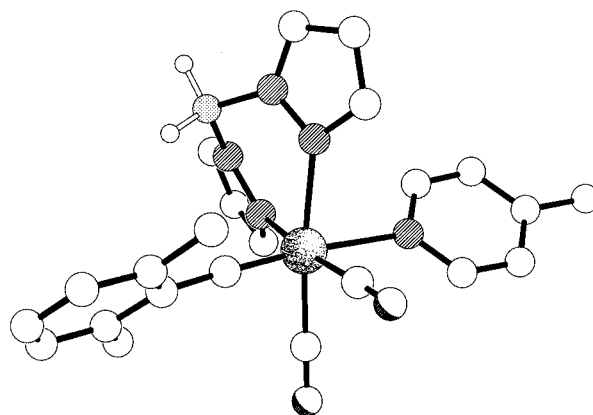
Keywords: Ruthenium / Alkynes / Phthalocyanines / Hydration / Decarbonylation



818 A. F. Hill,* J. M. Malget, A. J. P. White,
D. J. Williams

Dihydrobis(pyrazolyl)borate Alkylidyne Complexes of Tungsten

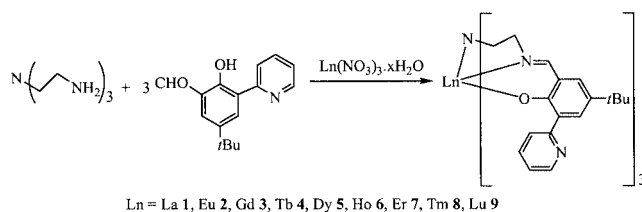
Keywords: Borates / Carbyne ligands / Multiple bonds / N Ligands / Tungsten



829 W.-K. Wong,* H. Liang, J. Guo,
W.-Y. Wong, W.-K. Lo, K.-F. Li,
K.-W. Cheah, Z. Zhou, W.-T. Wong

Template Synthesis, Crystal Structure and Luminescent Properties of Neutral N_4O_3 Tripodal $\text{Ln}^{\text{III}}\text{L}$ Complexes ($\text{Ln}^{\text{III}} = \text{La}^{3+}, \text{Eu}^{3+}, \text{Gd}^{3+}, \text{Tb}^{3+}, \text{Dy}^{3+}, \text{Ho}^{3+}, \text{Er}^{3+}, \text{Tm}^{3+}$ or Lu^{3+} ; $\text{H}_3\text{L} = \text{Tris}\{[3'-(2''\text{-pyridyl})-5'\text{-tert-butyl-2'-hydroxybenzylidene-2-imino]ethyl\}amine\}$)

Keywords: Lanthanides / Luminescence / Schiff bases / Tripodal ligands



$\text{Ln} = \text{La } 1, \text{Eu } 2, \text{Gd } 3, \text{Tb } 4, \text{Dy } 5, \text{Ho } 6, \text{Er } 7, \text{Tm } 8, \text{Lu } 9$

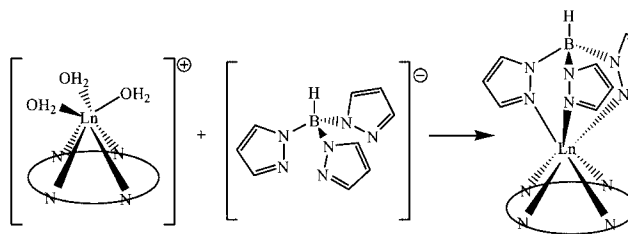
837

H. He, J. Guo, Z. Zhao, W.-K. Wong,*
W.-Y. Wong, W.-K. Lo, K.-F. Li, L. Luo,
K.-W. Cheah



Synthesis, Characterization and Near-Infrared Photoluminescence of Monoporphyrinate Lanthanide Complexes Containing an Anionic Tripodal Ligand

Keywords: Lanthanides / Photoluminescence / Porphyrins / Tripodal ligands



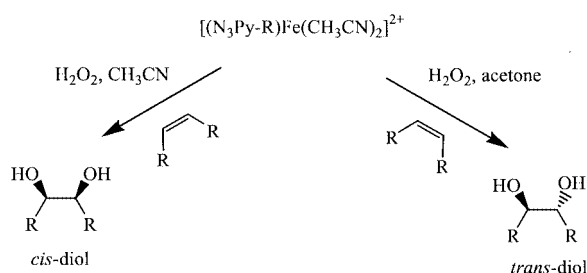
846

M. Klopstra, G. Roelfes, R. Hage,
R. M. Kellogg, B. L. Feringa*



Non-Heme Iron Complexes for Stereoselective Oxidation: Tuning of the Selectivity in Dihydroxylation Using Different Solvents

Keywords: Dihydroxylation / Enzyme models / Epoxidation / Iron / N ligands / Oxidation



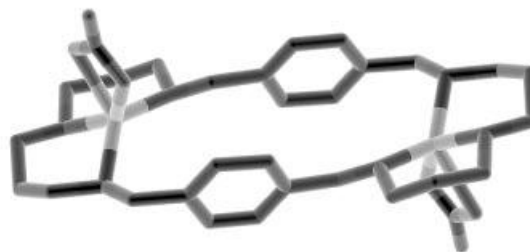
857

M. Costas, C. Anda, A. Llobet,* T. Parella,
H. Stoeckli Evans, E. Pinilla



Synthesis, Structure and Hydrolytic Properties of a Family of New Zn Complexes Containing Hexaazamacrocyclic Ligands

Keywords: Zinc / Cooperative effects / Coordination chemistry / Fluxionality / Homogeneous catalysis / Macrocyclic ligands

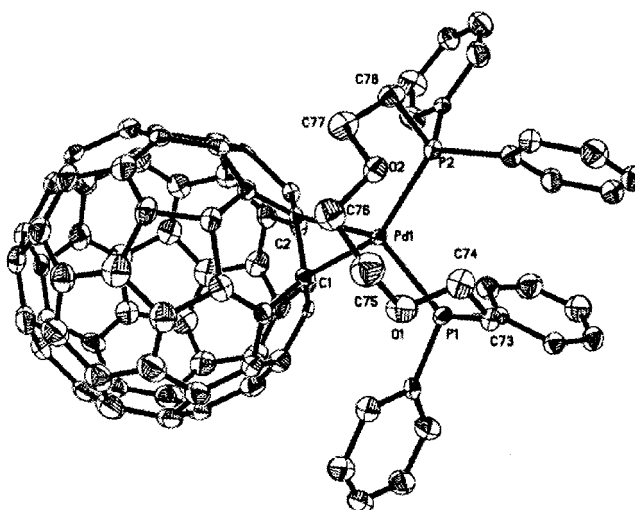


866

L.-C. Song,* G.-A. Yu, H.-T. Wang,
F.-H. Su, Q.-M. Hu, Y.-L. Song, Y.-C. Gao

Synthesis, Characterization and Properties of Transition Metal Pd/Pt [60]Fullerene Complexes Containing Phosphane Ligands – Crystal Structure of $[\text{Pd}(\eta^2\text{-C}_{60})\{\text{Ph}_2\text{PCH}_2(\text{CH}_2\text{OCH}_2)_2\text{CH}_2\text{-PPh}_2\}]$

Keywords: Fullerenes / Palladium / Phosphanes / Platinum

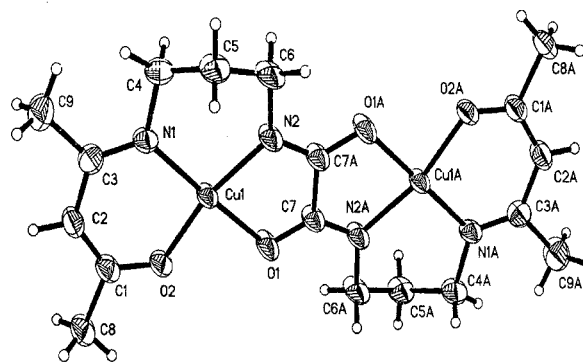


872

D. Saravanakumar, N. Sengottuvelan,
V. Narayanan, M. Kandaswamy,*
K. Chinnakali, G. Senthilkumar, H. K. Fun

Synthesis, Structural, Magnetic and Electrochemical Studies of Antiferromagnetically Coupled Symmetric Oxamidate-Bridged Binuclear Copper(II) Complexes

Keywords: Magnetic properties / Electrochemistry / Copper / N,O ligands

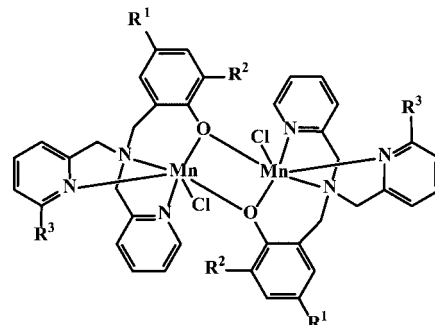


879

N. Reddig, D. Pursche, M. Kloskowski,
C. Slinn, S. M. Baldeau, A. Rompel*

Tuning the Catalase Activity of Dinuclear Manganese Complexes by Utilizing Different Substituted Tripodal Ligands

Keywords: Manganese / Tripodal ligands / Bio-inorganic chemistry / Enzyme models



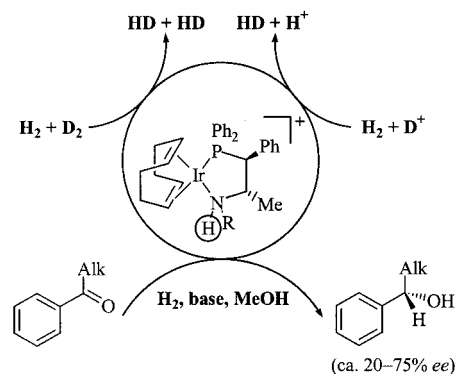
1 : R¹ = R² = R³ = H 4 : R¹ = NO₂ ; R² = H ; R³ = Me
2 : R¹ = NO₂ ; R² = R³ = H 5 : R¹ = R³ = H ; R² = OMe
3 : R¹ = R² = H ; R³ = Me

888

L. Dahlenburg,* R. Götz

Iridium Complexes with Chiral and Achiral β -Aminophosphane Ligands: Catalysts for $>\text{C}=\text{O}$ Hydrogenation and H/D Exchange Involving both Homo- and Heterolytic H₂ Activation

Keywords: Chirality / Hydrogenations / Isotopic exchange / Iridium



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N. Kobayashi,* H. Ogata

Some Properties and Molecular Orbitals of Planar Heterodinuclear Phthalocyanines

Keywords: Circular dichroism / Cyclic voltammetry / Phthalocyanines / UV/Vis spectroscopy

