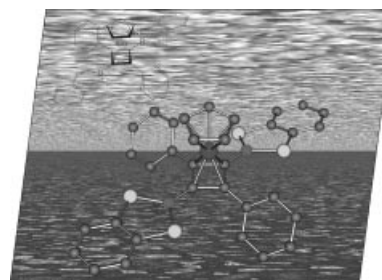


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COVER PICTURE

The cover picture shows the molecular structure of a (1,3-diboryl-2,4-diphenylcyclobutadiene)(cyclopentadienyl)cobalt complex obtained in an attempt to trimerize 1-(dithiolboryl)-2-phenylacetylene with $\text{CpCo}(\text{CO})_2$. Details are discussed in the article by W. Siebert et al. on p. 2635 ff.



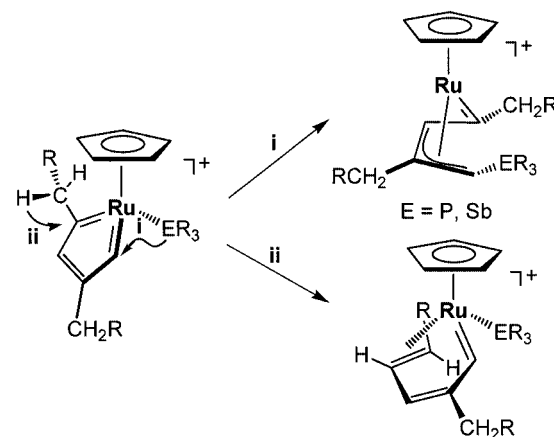
MICROREVIEW

Contents

2609 R. Schmid, K. Kirchner*

Ruthenium-Mediated C–C Coupling Reactions
 of Alkynes – The Key Role of Ruthenacyclopentatriene Complexes

Keywords: Ruthenium / Cyclopentadienyl Ligands /
 Acetylenes / Oxidative coupling /
 Carbenes / Vinylidene ligands

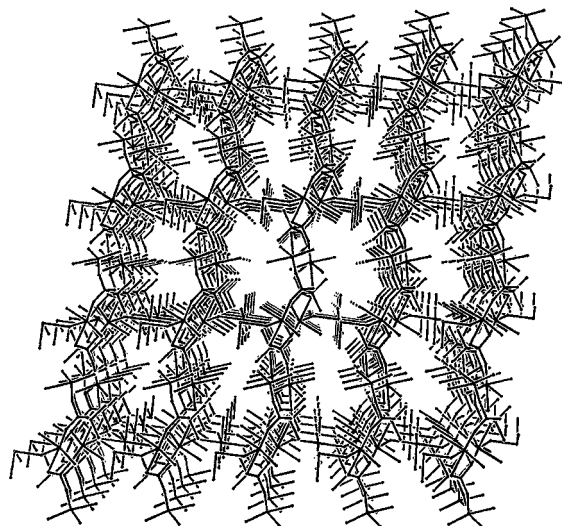


SHORT COMMUNICATIONS

2627 M. Kontturi,* S. Peräniemi,
J. J. Vepsäläinen, M. Ahlgren

A Structural Study of Bisphosphonate Metal Complexes – Three New Polymeric Structures of the Calcium Complex of Clodronic Acid

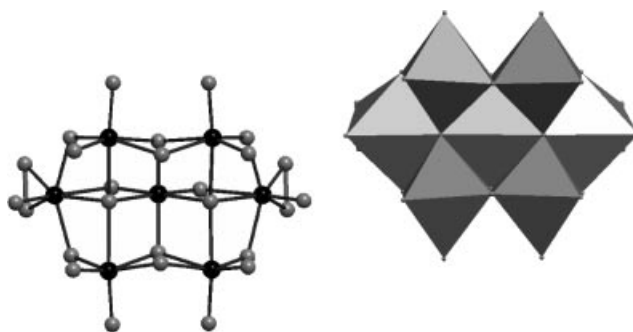
Keywords: Bisphosphonate / Clodronate / Calcium / Layered compounds / X-ray diffraction



2632 H. Suzuki, M. Hashimoto,* S. Okeya

Synthesis and Crystal Structure of $\text{Cs}_2(\text{CN}_3\text{H}_6)_3\text{[W}_7\text{O}_{22}(\text{O}_2)_2]\cdot 3\text{H}_2\text{O}$

Keywords: Polyoxometallates / Peroxoisopolytungstates / Clathrates / Crystal structures

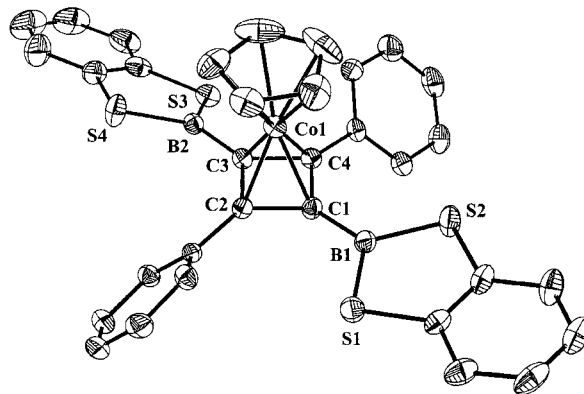


FULL PAPERS

2635 A. Goswami, C.-J. Maier, H. Pritzkow,
W. Siebert*

Cobalt-Mediated Cyclooligomerization Reactions of Borylacetylenes

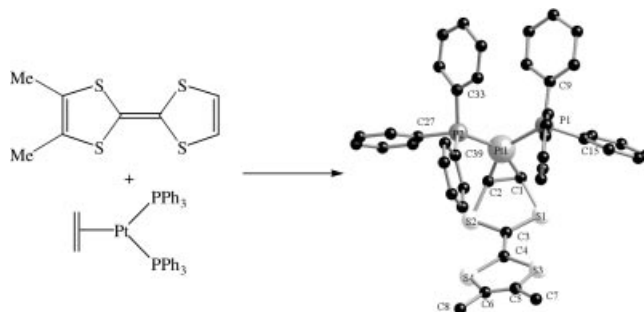
Keywords: Boranes / Catalysts / (Cyclobutadiene)cobalt complexes / Mono(boryl)acetylenes / Tri-borylbenzenes



2646 M. N. Jayaswal, H. N. Peindy, F. Guyon,*
M. Knorr,* N. Avarvari, M. Fourmigué

Novel Bonding Modes between Tetrathiafulvalenes (TTFs) and Transition Metal Centers: π -Bonding and Covalent $\text{TTFSiMe}_2\text{-ML}_n$ Coordination to Platinum

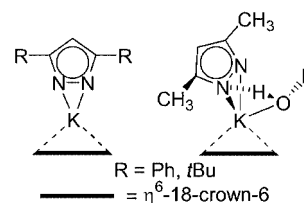
Keywords: Platinum / Tetrathiafulvalene / π interactions / Si ligands / X-ray diffraction



2652 W. Zheng, M. J. Heeg, C. H. Winter*

Synthesis and Characterization of Potassium Complexes Containing Terminal η^2 -Pyrazolato Ligands

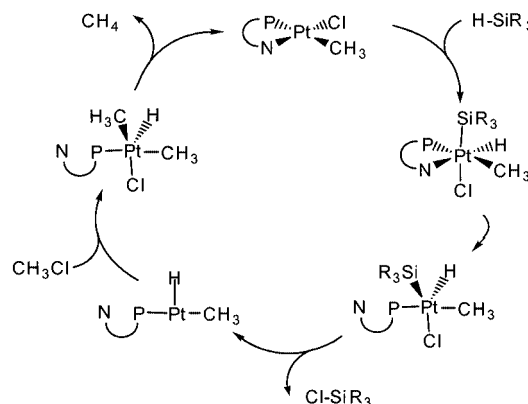
Keywords: Hydrogen bonds / N ligands / Potassium / Pyrazolato ligands



2658 D. Sturmayer, U. Schubert*

DFT Calculations on the C–Cl/Si–H Exchange Catalyzed by *P,N*-Chelated Pt^{II} Complexes

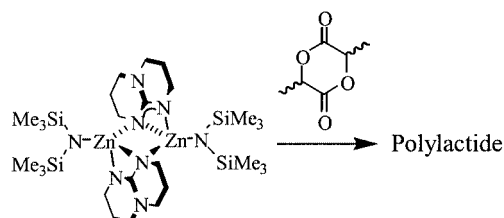
Keywords: Chlorinated hydrocarbons / Hemilabile ligands / Oxidative addition / Reductive elimination / Silanes



2662 M. P. Coles,* P. B. Hitchcock

Zinc Guanidinate Complexes and Their Application in Ring-Opening Polymerisation Catalysis

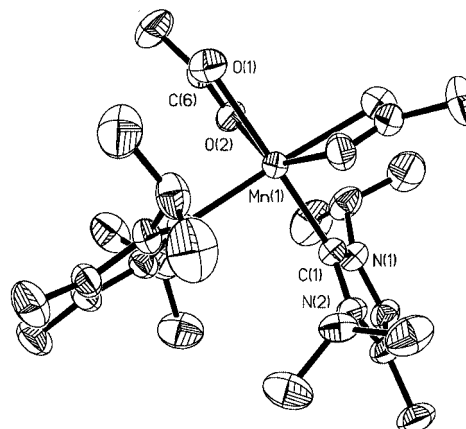
Keywords: Guanidinate / N ligands / O ligands / Ring-opening polymerisation / Zinc



2673 J. Chai, H. Zhu, Y. Peng, H. W. Roesky,* S. Singh, H.-G. Schmidt, M. Noltemeyer

Synthesis and Structural Characterization of Monomeric Manganese(II) *N*-Heterocyclic Carbene Complexes $[\text{MnX}_2(\text{C}\{\text{N}(\text{iPr})\text{C}(\text{Me})\}_2)_2]$ (X = Cl, I, and MeCOO)

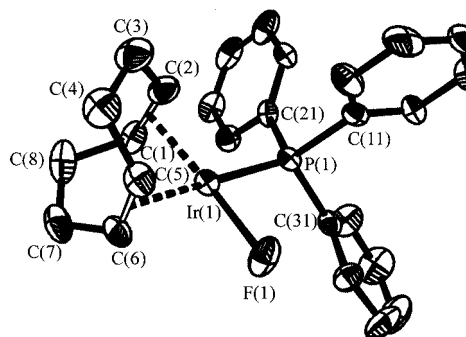
Keywords: Carbene ligands / Manganese / Halides / Acetate



2678 M. Gorol, N. C. Mösch-Zanetti, H. W. Roesky,* M. Noltemeyer, H.-G. Schmidt

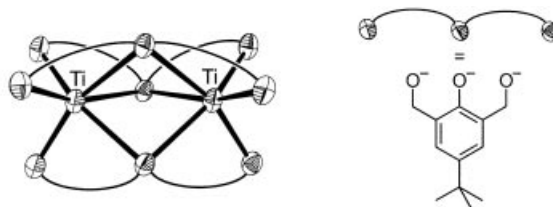
Synthesis of a Novel Organoiridium(I) Fluoro Complex

Keywords: Syntheses / Crystal structures / Iridium(I) / Fluoro complexes / Pentafluorosilicates



2683 T. Glaser,* I. Liratzis, T. Lügger,
R. Fröhlich

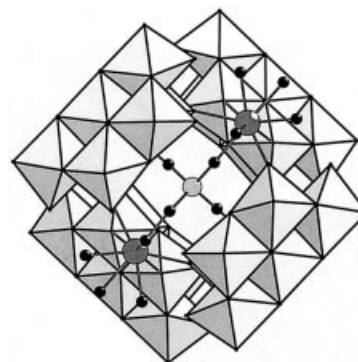
Synthesis and Characterization of Ti Complexes Using 4-*tert*-Butyl-2,6-bis(hydroxymethyl)phenol: X-ray Structures of a Confacial Bioctahedron with Terminal Nucleophilic Phenylmethoxide Ligands, and a Ti_4O_{16} Core Protected by Two Hydrophobic Binding Pockets



Keywords: Tridentate ligands / O ligands / Titanium

2690 K. Burgemeister, D. Drewes,
E. M. Limanski, I. Küper, B. Krebs*

Formation of Large Clusters in the Reaction of Lanthanide Cations with Heptamolybdate

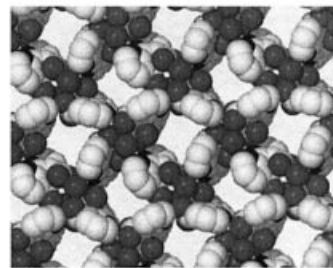


Keywords: Lanthanides / Molybdenum / Polyoxometalates / Structural analysis

2695 B. Wu, D. Yuan, F. Jiang, R. Wang, L. Han,
Y. Zhou, M. Hong*



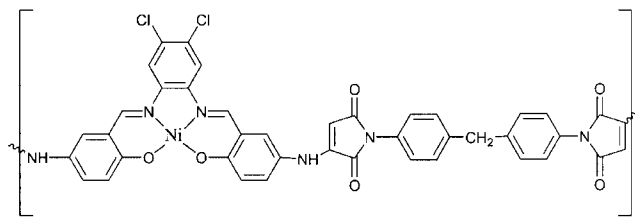
Metal-Directed Self-Assembly: Two New Metal-Binicotinate Grid Polymeric Networks and Their Fluorescence Emission Tuned by Ligand Configuration



Keywords: Self-assembly / Binicotinic acid / Fluorescence / Coordination polymer / Chirality

2701 S. Di Bella,* G. Consiglio, N. Leonardi,
S. Failla,* P. Finocchiaro, I. Fragalà

Film Polymerization – A New Route to the Synthesis of Insoluble Polyimides Containing Functional Nickel(II) Schiff Base Units in the Main Chain



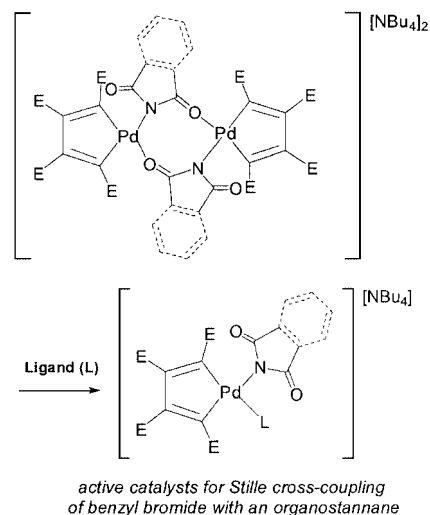
Keywords: Coordination polymer / Nickel / Film polymerization / Nonlinear optics

2706

J. L. Serrano,* I. J. S. Fairlamb,*
G. Sánchez,* L. García, J. Pérez, J. Vives,
G. López, C. M. Crawforth, R. J. K. Taylor

Palladacyclopentadiene Complexes with Mono- and Didentate Imidato Ligands: Synthesis, Hemilabile Behaviour and Catalytic Application in the Stille Reaction

Keywords: Catalysis / Cross-coupling / N,O ligands / Palladium / Stille reactions

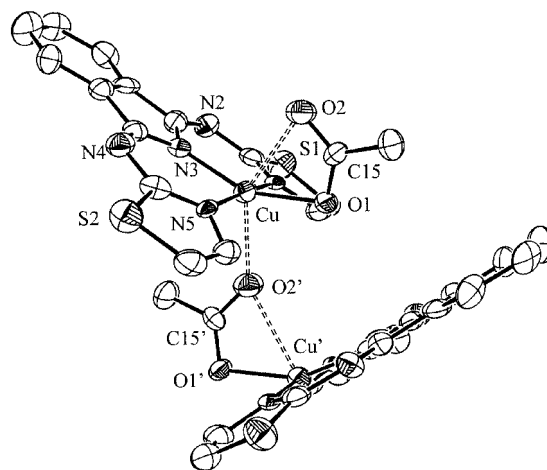


2716

M. B. Meder, L. H. Gade*

Coordination Chemistry of 1,3-Bis(2-pyridylimino)- and 1,3-Bis(2-thiazolylimino)isoindole Copper Complexes: Investigation of Their Catalytic Behavior in Oxidation Reactions

Keywords: Copper / Allylic peroxylation / Coordination polymers / Radical reactions / Oxidation



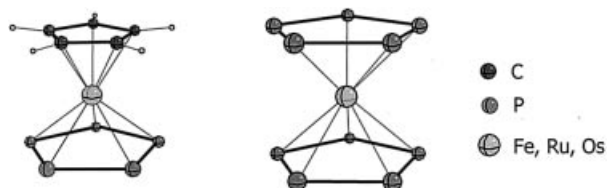
2723

E. J. Padma Malar



Can the *cyclo*-P₅ Ligand Introduce Basicity at the Transition Metal Center in Metallocenes? A Hybrid Density Functional Study on the *cyclo*-P₅ Analogues of Metallocenes of Fe, Ru and Os

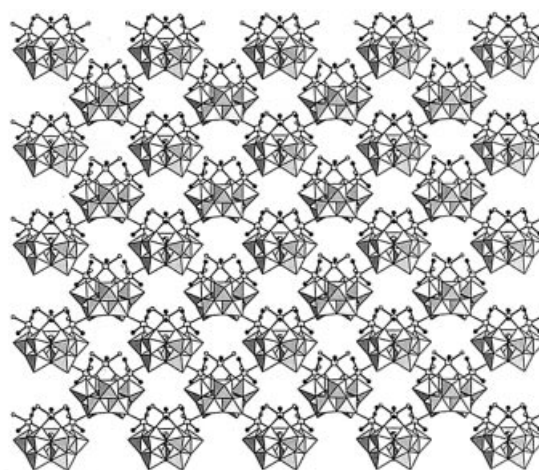
Keywords: Basicity / Density functional calculations / Electronic structure / Metallocenes / Natural charge / Transition metals



2733 F. Hussain, M. Reicke, U. Kortz*

The Hybrid Organic-Inorganic 2-D Material $(\text{CsNa}_2[\{\text{Sn}(\text{CH}_3)_2\}_3(\text{H}_2\text{O})_4(\beta\text{-XW}_9\text{O}_{33})]\cdot 7\text{H}_2\text{O})_\infty$ ($\text{X} = \text{As}^{\text{III}}, \text{Sb}^{\text{III}}$) and Its Solution Properties

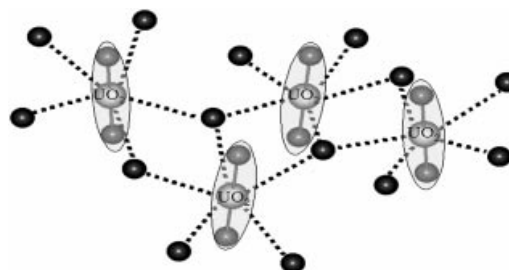
Keywords: Hybrid materials / Organometallic compounds / Polyoxometalates / Self assembly / Tungsten



2739 E. Vasca, G. Palladino, C. Manfredi, C. Fontanella, C. Sadun, R. Caminiti*

An Energy Dispersive X-ray Diffraction Study of Dioxouranium(VI) in 1 M Lithium Citrate

Keywords: X-ray Diffraction / Solution / Uranium / Lithium citrate

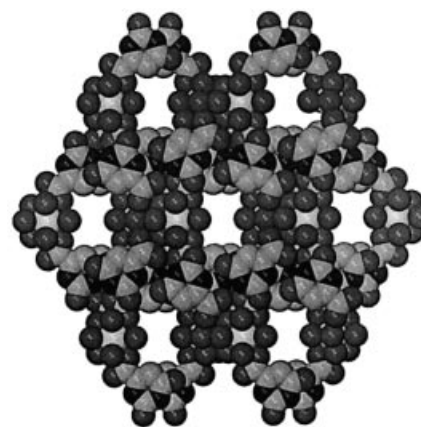


2747 X. Li, Q. Shi, D. Sun, W. Bi, R. Cao*



Synthesis and Characterization of a Series of Lanthanide Complexes Constructed from Orotic Acid

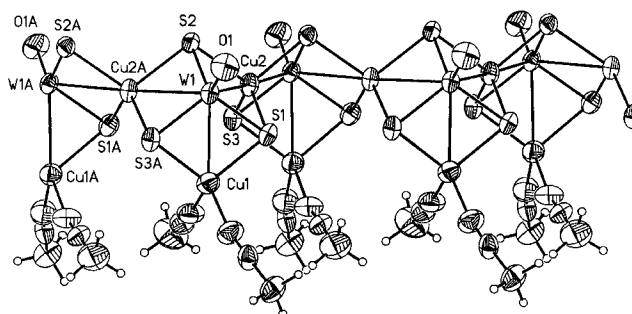
Keywords: Lanthanides / O ligands / Polymers / Solvothermal synthesis



2754 H. Zheng,* J. Zhou, M. F. Lappert, Y. Song, Y. Li, X. Xin

Crystal Structure and Excited Optical Non-linearity of a 1D Polymeric $[\text{W}_2\text{O}_2\text{S}_6\text{Cu}_4(\text{NCMe})_4]_n$ Cluster

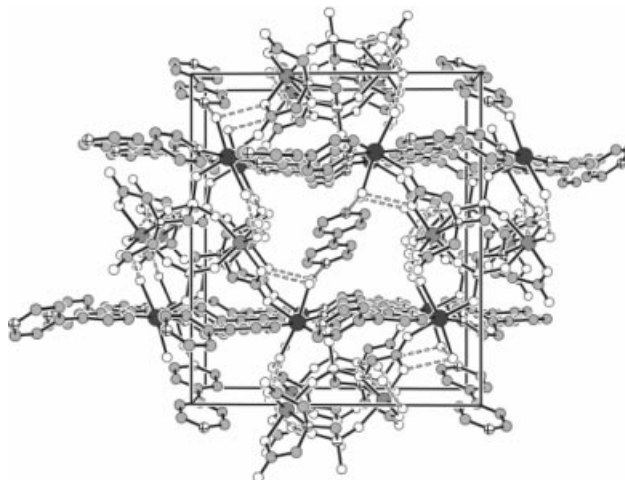
Keywords: Cluster compounds / Copper / Nonlinear optics / Polymers / Tungsten



2759 F. A. Almeida Paz, F.-N. Shi, J. Klinowski,
J. Rocha,* T. Trindade

Synthesis and Characterisation of the First Three-Dimensional Mixed-Metal-Center Inorganic-Organic Hybrid Framework with *N*-(Phosphonomethyl)iminodiacetate

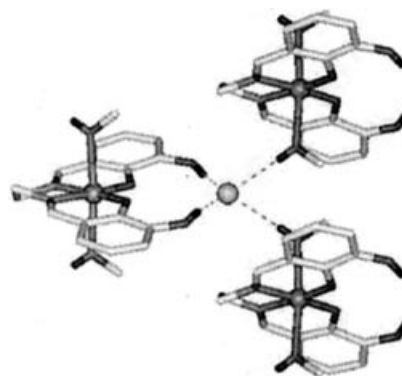
Keywords: Carboxylate ligands / Crystal engineering / Hydrothermal synthesis / N ligands / Organic-inorganic hybrid composites



2769 M. R. Bermejo,* M. I. Fernández,
A. M. González-Noya, M. Maneiro,
R. Pedrido, M. J. Rodríguez, M. Vázquez

Chloride as Supramolecular Glue: Anion-Directed Assembly of a 2D Network of Mn^{III} Complexes

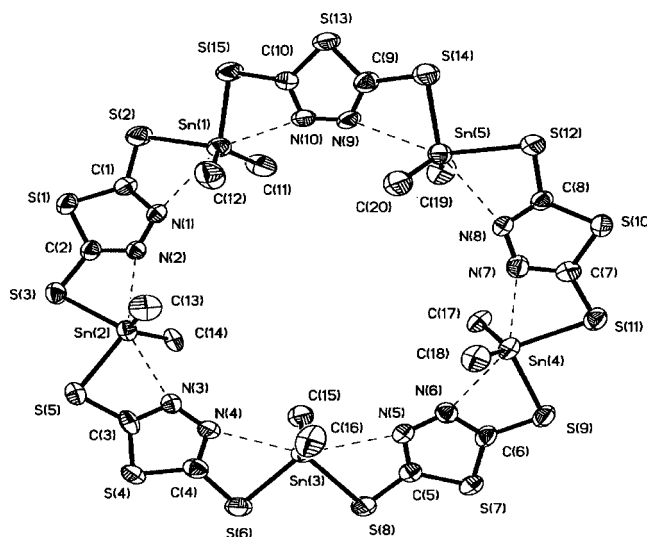
Keywords: Supramolecular chemistry / Manganese / Schiff bases / Hydrogen bond / Self-assembly



2775 C. Ma,* J. Zhang, F. Li, R. Zhang

Syntheses and Crystal Structures of Diorganotin Derivatives of 2,5-Dimercapto-1,3,4-thiadiazole

Keywords: Macrocyclic ligands / N ligands / Oxo ligands / S ligands / Tin





On the Electronic Structure of Mesitylnickel
Complexes of α -Diimines – Combining Struc-
tural Data, Spectroscopy and Calculations

Keywords: Density functional calculations / Electronic
structure / EXAFS / Nickel / Raman
spectroscopy

