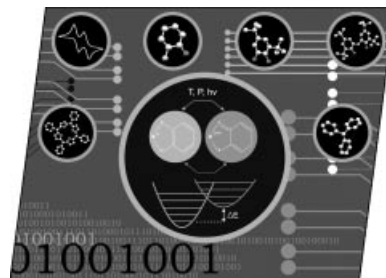


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COVER PICTURE

The cover picture shows the potential energy curves for a generic valence tautomeric complex with a schematic representation emphasizing the intramolecular electron transfer between the metal ion and the ligand, which can be induced by different external stimuli such as temperature, pressure or irradiation. The diagram is accompanied by a representation of the different redox-active ligands involved in valence tautomerism that are presented in the Micro-review by E. Evangelio and D. Ruiz-Molina on p. 2957 ff.



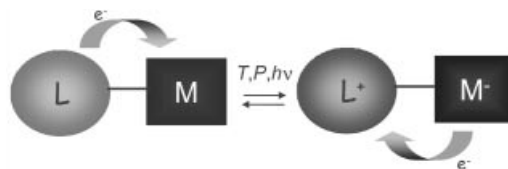
MICROREVIEW

Contents

2957 E. Evangelio, D. Ruiz-Molina*

Valence Tautomerism: New Challenges for Electroactive Ligands

Keywords: Valence tautomerism / Electroactive / Intramolecular electron transfer / Bistability / Switch



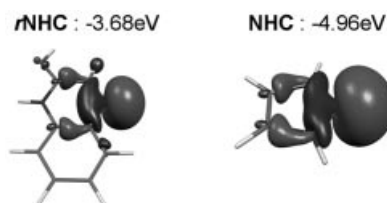
SHORT COMMUNICATIONS

- 2973** S. K. Schneider, P. Roembke, G. R. Julius, C. Loschen, H. G. Raubenheimer,* G. Frenking,* W. A. Herrmann*



Extending the NHC Concept: C–C Coupling Catalysis by a Pd^{II} Carbene (*r*NHC) Complex with Remote Heteroatoms

Keywords: Carbene ligands / C–C Coupling / Density functional calculations / Homogeneous catalysis

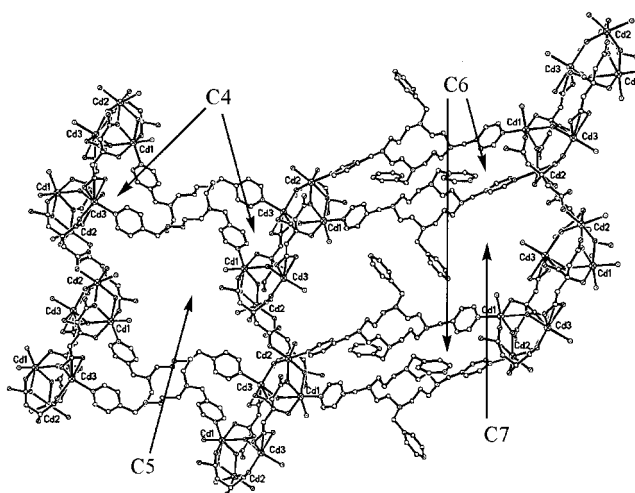


- 2978** Z. Ma, Z. Chen, R. Cao*



Two Novel Cadmium Polymeric Metallamacrocyclic Complexes Constructed from a Pyridyl-methyl-Functionalized Tetraaza Ligand

Keywords: Cadmium complexes / Crystal structures / Macrocyclic compounds / Hydrothermal method



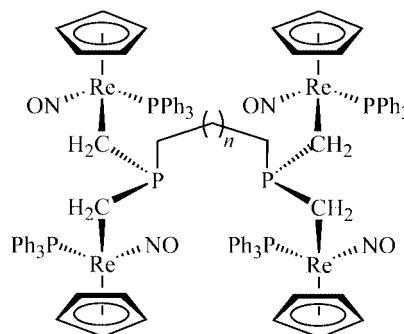
FULL PAPERS

- 2983** K. Kromm, S. Eichenseher, M. Prommesberger, F. Hampel, J. A. Gladysz*



Synthesis and Reactivity of 1,2- and 1,3-Diphosphanes that Contain Four Chiral Rhenium Fragments: Architecturally Novel Tetrametallo-DMPE and -DMPP Species that are Unprivileged Ligands for Enantioselective Catalysis

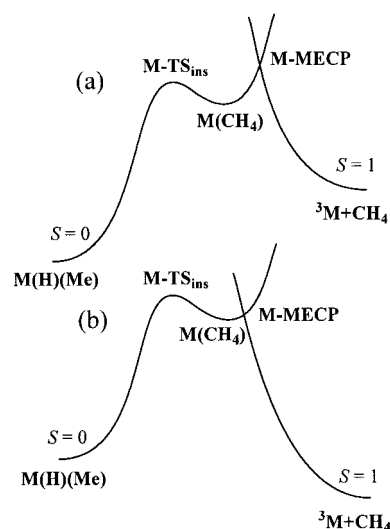
Keywords: Rhenium / Chiral diphosphane / Phosphane oxide / Rhodium / Hydrogenation / Hydrosilylation



2999 J.-L. Carreón-Macedo, J. N. Harvey,*
R. Poli*

The Reductive Elimination of Methane from *ansa*-Hydrido(methyl)metallocenes of Molybdenum and Tungsten: Application of Hammond's Postulate to Two-State Reactions

Keywords: Density functional theory / Metallocenes / Minimum energy crossing points / Hammond's postulate / Spin crossover reactivity

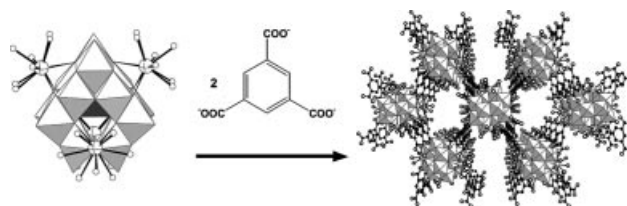


3009 A. Dolbecq,* C. Mellot-Draznieks,
P. Mialane, J. Marrot, G. Férey,
F. Sécheresse



Hybrid 2D and 3D Frameworks Based on ϵ -Keggin Polyoxometallates: Experiment and Simulation

Keywords: Molybdenum / Organic–inorganic hybrid materials / Polyoxometallates / Simulation

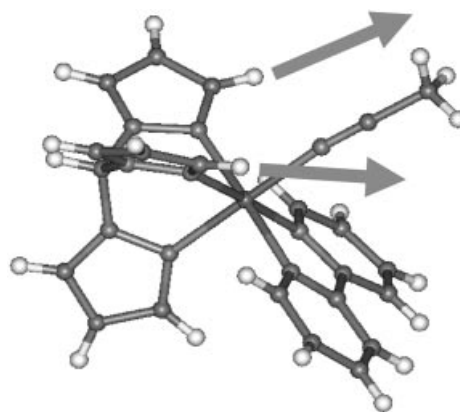


3019 N. E. Katz,* F. Fagalde, N. D. Lis de Katz,
M. G. Mellace, I. Romero, A. Llobet,
J. Benet-Buchholz



Synthesis, Properties and Molecular Structure of $[\text{Ru}(\text{tpm})(\text{bpy})(\text{CH}_3\text{CN})](\text{PF}_6)_2$ (tpm = tris(1-pyrazolyl)methane, bpy = 2,2'-bipyridine) – Another Example of Nitrile Hydrolysis Promoted by Ruthenium(II)

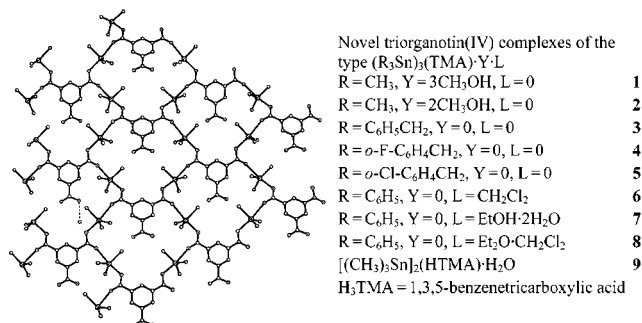
Keywords: Scorpionate ligands / Ruthenium / Bipyridines / Hydrolysis / Acetonitrile complexes



3024 C. Ma,* Y. Han, R. Zhang, D. Wang

Self-Assembled Triorganotin(IV) Moieties with 1,3,5-Benzenetricarboxylic Acid: Syntheses and Crystal Structures of Monomeric, Helical, and Network Triorganotin(IV) Complexes

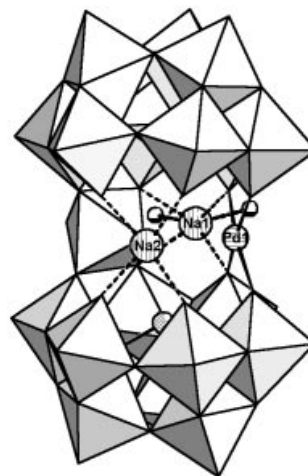
Keywords: Crystal engineering / Helical structures / Networks / Self-assembly / Tin



3034 L.-H. Bi, U. Kortz,* B. Keita, L. Nadjo,
L. Daniels

The Palladium(II)-Substituted, Lone Pair Containing Tungstoarsenates(III) $[\text{Na}_2(\text{H}_2\text{O})_2\text{PdWO}(\text{H}_2\text{O})(\alpha\text{-AsW}_9\text{O}_{33})_2]^{10-}$ and $[\text{Cs}_2\text{Na}(\text{H}_2\text{O})_8\text{Pd}_3(\alpha\text{-AsW}_9\text{O}_{33})_2]^{9-}$

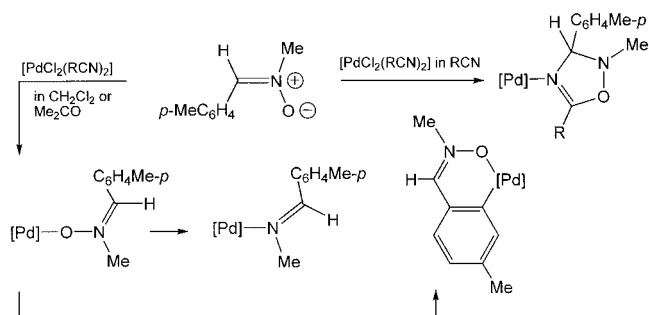
Keywords: Arsenic / Crystal structure / Electrochemistry / Palladium / Polyoxometalates / Tungsten



3042 N. A. Bokach, A. A. Krokhin,
A. A. Nazarov, V. Y. Kukushkin,*
M. Haukka, J. J. R. Fraústo da Silva,
A. J. L. Pombeiro*

Interplay between Nitrones and (Nitrile) Pd^{II} Complexes: Cycloaddition vs. Complexation Followed by Cyclopalladation and Deoxygenation Reactions

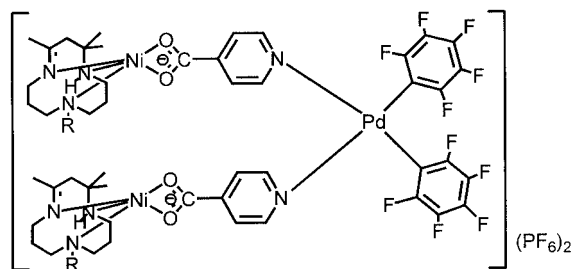
Keywords: Palladium / Nitron complexes / Nitrile complexes / 1,3-Dipolar cycloaddition / Cyclometalation



3049 J. Ruiz,* M. D. Santana,* A. Lozano,
C. Vicente, G. García, G. López, J. Pérez,
L. García

Synthesis and Characterization of Heterotrinuclear Complexes of Nickel and Palladium with Pyridinecarboxylate as Bridging Ligands

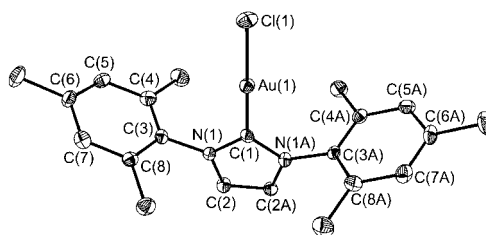
Keywords: Palladium / Nickel / Pyridinecarboxylate / Heterotrinuclear complexes / Mononuclear complexes



3057 S. Singh, S. S. Kumar, V. Jancik,
H. W. Roesky,* H.-G. Schmidt,
M. Noltemeyer

A Facile One-Step Synthesis of a Lipophilic Gold(I) Carbene Complex – X-ray Crystal Structures of LAuCl and $\text{LAuC}\equiv\text{CH}$ ($\text{L} = 1,3$ -di-*tert*-Butyl imidazol-2-ylidene)

Keywords: Adduct / Gold(I) / Carbene / Acetylide

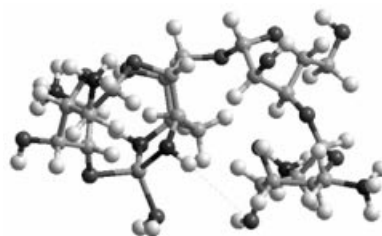


3063 M. Jeżowska-Bojczuk,* W. Szczepanik,
S. Mangani, E. Gaggelli, N. Gaggelli,
G. Valensin



Identification of Copper(II) Binding Sites in the
Aminoglycosidic Antibiotic Neomycin B

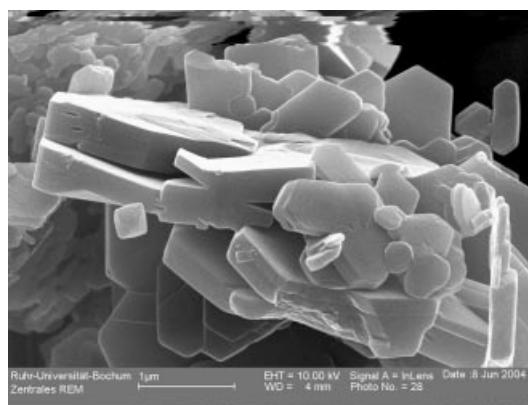
Keywords: Bioinorganic chemistry / Aminoglycoside
antibiotics / Neomycin B / N,O ligands /
Copper



3072 Y. Guo, R. Weiss, M. Eppe*

A Straightforward Route to Copper/Zinc Oxide
Nanocomposites: The Controlled Thermolysis
of $\text{Zn}[\text{Cu}(\text{CN})_3]$

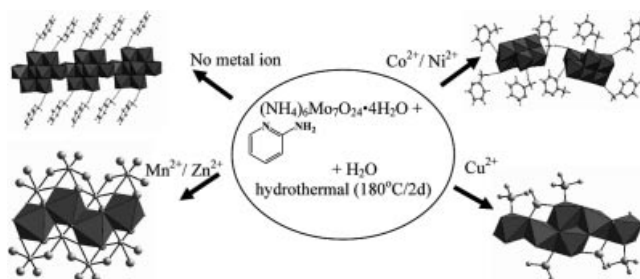
Keywords: Cyanides / Copper / Zinc / Thermochem-
istry / EXAFS spectroscopy



3080 K. Pavani, A. Ramanan*

Influence of 2-Aminopyridine on the Formation
of Molybdates under Hydrothermal Conditions

Keywords: Hydrothermal synthesis / N ligands /
Molybdenum / Crystal structure

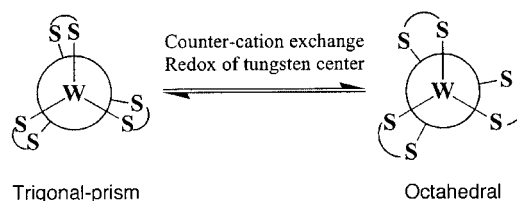


3088 H. Sugimoto,* Y. Furukawa, M. Tarumizu,
H. Miyake, K. Tanaka, H. Tsukube



Synthesis and Crystal Structures of $[\text{W}(\text{3,6-dichloro-1,2-benzenedithiolate})_3]^{n-}$ ($n = 1, 2$) and $[\text{Mo}(\text{3,6-dichloro-1,2-benzenedithiolate})_3]^{2-}$:
Dependence of the Coordination Geometry on
the Oxidation Number and Counter-Cation in
Trigonal-Prismatic and Octahedral Structures

Keywords: Coordination modes / Molybdenum /
S ligands / Salt effects / Tungsten

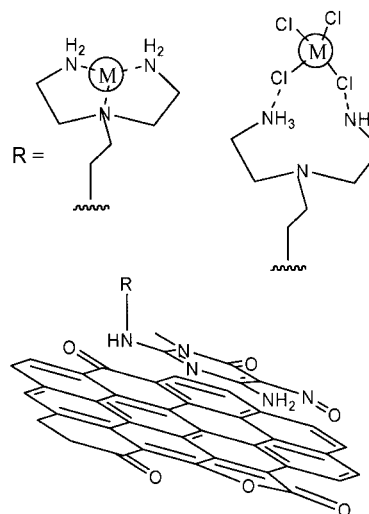


3093

J. García-Martín, R. López-Garzón,*
M. L. Godino-Salido, R. Cuesta-Martos,
M. D. Gutiérrez-Valero,
P. Arranz-Mascarós, H. Stoeckli-Evans

Adsorption of Zn^{2+} and Cd^{2+} from Aqueous Solution onto a Carbon Sorbent Containing a Pyrimidine–Polyamine Conjugate as Ion Receptor

Keywords: Adsorption / Cadmium / Ligand design / N ligands / Zinc

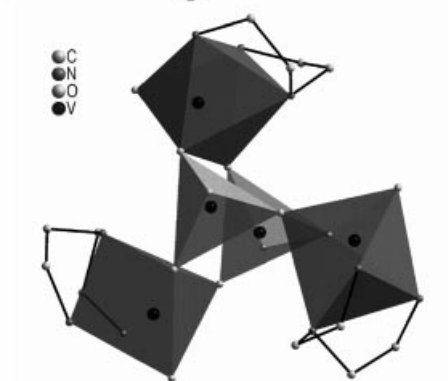


3104

M.-L. Fu, G.-C. Guo,* A.-Q. Wu, B. Liu,
L.-Z. Cai, J.-S. Huang

Synthesis, Crystal Structure and Characterisation of a Novel Chiral Mixed-Valence Vanadium Oxide Hybrid, $[\text{V}_5\text{O}_{11}(\text{dien})_3]$

Keywords: Chirality / dien ligand / Magnetism / Mixed-valence compounds / Vanadium

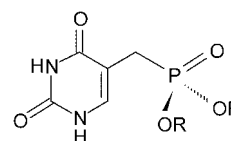


3109

K. Matlawska,* U. Kalinowska,
A. Erxleben, R. Osiecka, J. Ochocki

Novel Analogues of 5-Fluorouracil – Synthesis, X-ray Crystallography, and Cytotoxic Effects in Normal Human Peripheral Blood Lymphocytes and Colon Adenocarcinoma HT 29

Keywords: Alkali metals / Phosphonate ligands / X-ray diffraction / Antitumor agents / Uracil derivatives

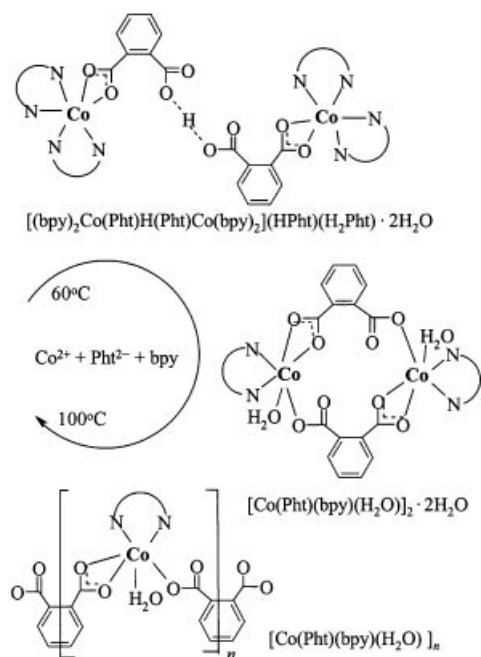


- 3118** S. G. Baca,* I. G. Filippova, C. Ambrus,
M. Gdaniec, Y. A. Simonov, N. Gerbeleu,
O. A. Gherco, S. Decurtins



From Mono- and Dinuclear to Polynuclear Cobalt(II) and Cobalt(III) Coordination Compounds Based on *o*-Phthalic Acid and 2,2'-Bipyridine: Synthesis, Crystal Structures, and Properties

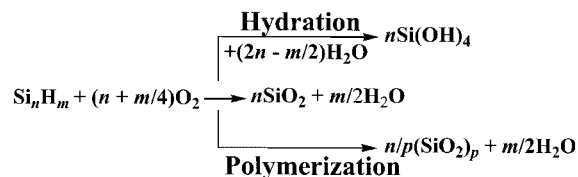
Keywords: Carboxylate ligands / Cobalt / Magnetic properties / N ligands



- 3131** Y. H. Ding,* S. Inagaki*

Silanes/Oxygen/(Water): Green High-Energy-Density Materials

Keywords: Silanes / Green high-energy-density materials / Ab initio calculations / Bond energy

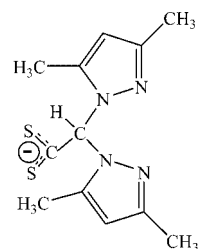


- 3135** M. Ortiz, A. Penabad, A. Díaz, R. Cao,*
A. Otero, A. Antiñolo, A. Lara



Ruthenium Complexes of the Scorpionate Ligand Bis(3,5-dimethylpyrazol-1-yl)dithioacetate and the Effect of Nitric Oxide Coordination

Keywords: N ligands / Nitric oxide / Ruthenium / S ligands / Scorpionate ligands

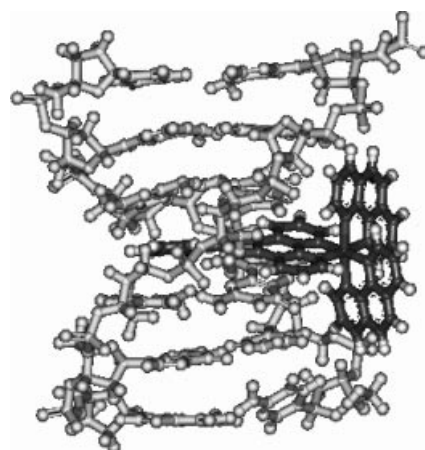


- 3141** H. Chen, P. Yang,* C. Yuan, X. Pu



Study on the Binding of Base-Mismatched Oligonucleotide d(GCGAGC)₂ by Cobalt(III) Complexes

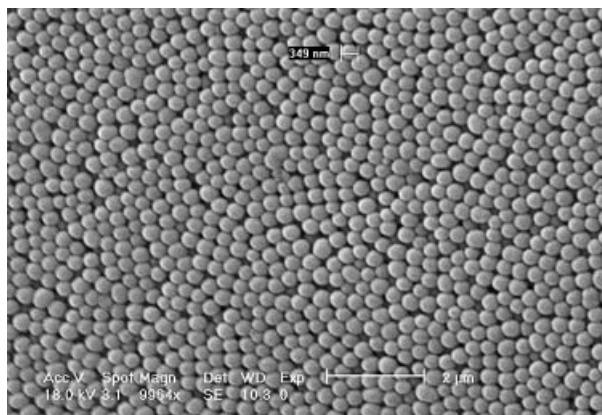
Keywords: Mismatched DNA / Cobalt / Binding / Oligonucleotides



3149 J. Widoniak, S. Eiden-Assmann,*
G. Maret

Synthesis and Characterisation of Monodisperse Zirconia Particles

Keywords: Zirconia / Monodisperse / Colloids / Particles / Sol-gel processes

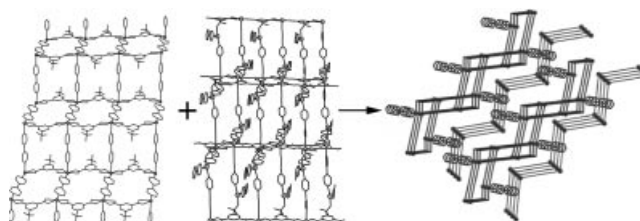


3156 X. Li, R. Cao,* W. Bi, D. Yuan, D. Sun



Self-Assembly of 1D to 3D Cadmium Complexes: Structural Characterization and Properties

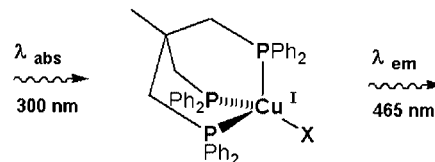
Keywords: Cadmium / Hydrothermal synthesis / Layered compounds / O ligands / Self-assembly



3167 V. Pawlowski, G. Knör, C. Lennartz,*
A. Vogler*

Luminescence and Theoretical Studies of Cu(tripod)X [tripod = 1,1,1-Tris(diphenylphosphanyl)methyl)ethane; X⁻ = Halide, Thiophenolate, Phenylacetylde]

Keywords: Electronic spectra / Luminescence / Copper complexes / Phosphane ligands / Quantumchemical calculations



3172 Dj. U. Miodragović,* Ž. J. Vitnik,
S. M. Milosavljević, M. J. Malinar,
I. O. Juranić

NH $\cdots\pi$ Interactions Stabilize the Most-Hindered Rotamer of the (S)-Tyrosinato Side Group in Bis[(S)-tyrosinato](diamine)cobalt(III) Complexes: An NMR Spectroscopic and DFT Study

Keywords: Amino acids / Cobalt / Conformational analysis / Density functional calculations / NMR spectroscopy / π interactions

