

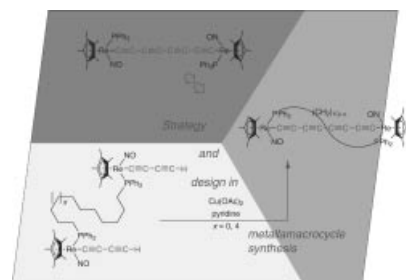
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COVER PICTURE

The cover picture shows the first example of an isolated organometallic compound containing two terminal alkynes undergoing an intramolecular oxidative coupling. Twenty-two- and twenty-six-membered rings or “metallamacrocycles” are obtained in 18–41% yields. The intramolecular oxidative coupling of organic compounds containing two terminal alkynes has played a critical role in the development of macrocycle chemistry, particularly with annulenes and dehydroannulenes, and macrocyclizations are playing an increasingly important role in organometallic chemistry, particularly as attention turns to architecturally novel types of target molecules that may have applications in materials chemistry or nanotechnology. Details are discussed in the article by J. A. Gladysz et al. on p. 2211 ff.



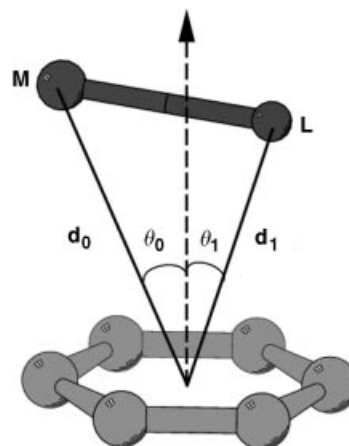
MICROREVIEW

Contents

2197 S. D. Zarić

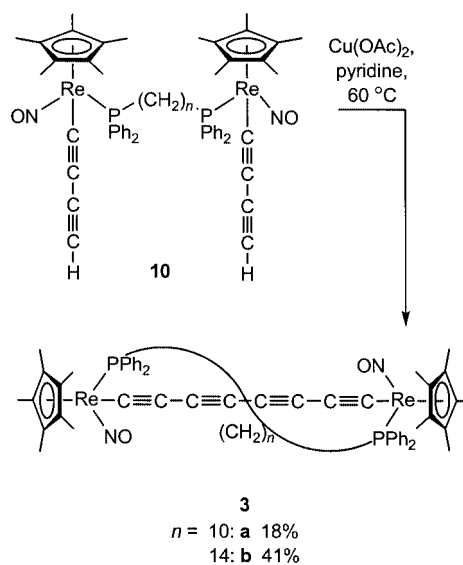
Metal Ligand Aromatic Cation– π Interactions

Keywords: Chelates / Density functional calculations / DNA / Hydrogen bonds / Metalloproteins / π interactions / RNA



2211 C. R. Horn, J. A. Gladysz*

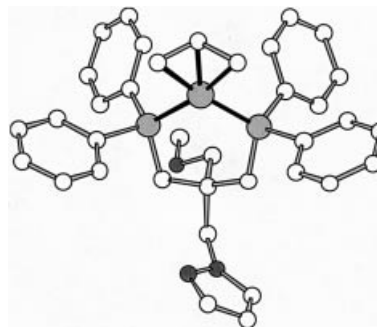
Syntheses of Dimetallamacrocycles by Intramolecular Oxidative Couplings of Dinuclear Bis(1,3-butadiynyl) Complexes: A New Approach to Steric Shielding in (sp-Carbon chain)dirhenium Complexes $[(\eta^5\text{-C}_5\text{Me}_5)\text{Re}(\text{NO})(\text{PPh}_2)_2(\text{C}\equiv\text{CC}\equiv\text{CC}\equiv\text{C})_n(\text{R}_3\text{P})(\text{ON})\text{Re}(\eta^5\text{C}_5\text{Me}_5)]$



Keywords: Rhenium / Alkynes / Oxidative coupling / Macrocycles / Cyclic voltammetry

2219 R. Faissner, G. Huttner,* E. Kaifer, P. Kircher, P. Rutsch, L. Zsolnai

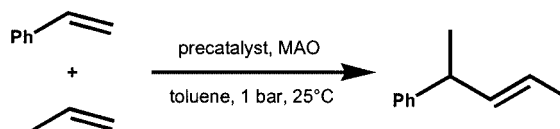
Synthesis of *tripod* Ligands Containing Mixed Donor Sets with Phosphane and Pyrazole Donors – Bidentate Chelate Binding Modes and Dynamic Behaviour of tripod Ligands in d^8 -Metal Complexes (Ni^{II} , Pd^{II} , Pt^{II})



Keywords: Tripod ligands / Conformation / Nickel / Palladium / Platinum

2239 R. Faissner, G. Huttner*

Nickel(II) Compounds Derived from *tripod* Ligands: Efficient Catalysts for the Stereoselective Heterodimerization of Styrene and Propene

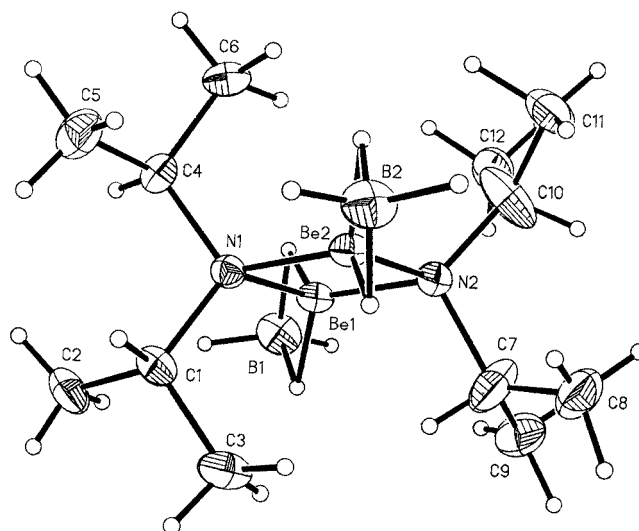


Keywords: Tripod ligands / Nickel / Catalysis / Heterodimerization

2245 H. Nöth,* D. Schlosser

The Aminolysis of Beryllium Dichloride with Diisopropylamine and Reactions of Some Aminoberyllium Chlorides

Keywords: Adduct formation / Amines / Beryllium / N ligands / NMR spectroscopy

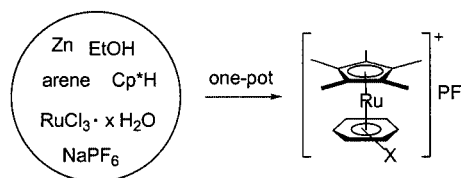


2255 A. Schmid, H. Piotrowski, T. Lindel*



One-Step Preparation of $[\text{RuCp}^*(\eta^6\text{-arene})]^+$ Sandwich Complexes

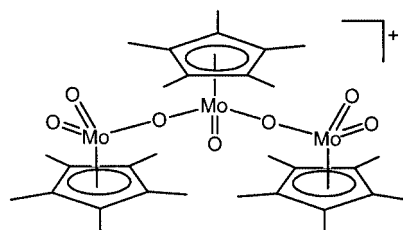
Keywords: Ruthenium / Sandwich complexes / NMR spectroscopy / Synthetic methods



2264 J. Gun, A. Modestov, O. Lev, R. Poli*

Reduction of $[(\text{C}_5\text{Me}_5)_2\text{Mo}_2\text{O}_5]$ and $[(\text{C}_5\text{Me}_5)_2\text{Mo}_2\text{O}_4]$ in Methanol/Water/Trifluoroacetate Solutions Investigated by Combined On-Line Electrochemistry/Electrospray-Ionization Mass Spectrometry

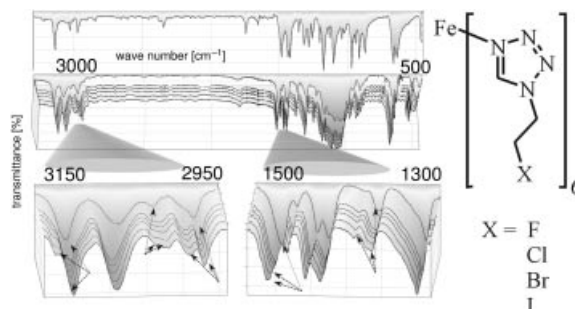
Keywords: Cyclopentadienyl ligands / Electrochemistry / Electrospray-ionization mass spectrometry / Molybdenum / Oxo ligands



2273 A. F. Stassen, M. Grunert, E. Dova, M. Müller, P. Weinberger, G. Wiesinger, H. Schenk, W. Linert, J. G. Haasnoot,* J. Reedijk

Magnetic, ^{57}Fe Mössbauer, and IR Monitoring of the Thermal Spin Transition in a New Family of Iron(II) Spin-Transition Complexes

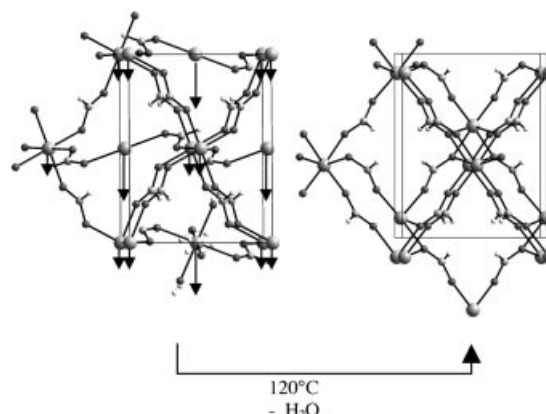
Keywords: Spin crossover / Iron / Tetrazole ligand / Mössbauer spectroscopy / Variable-temperature IR spectroscopy



2283 M. Viertelhaus, H. Henke, C. E. Anson,
A. K. Powell*

Solvothermal Synthesis and Structure of Anhydrous Manganese(II) Formate, and Its Topotactic Dehydration from Manganese(II) Formate Dihydrate

Keywords: Manganese / Formates / Solvothermal synthesis / Solid-state reactions

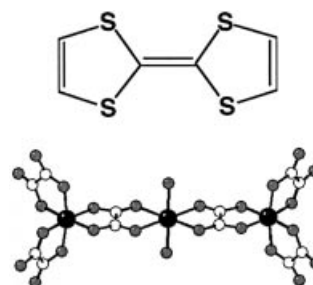


2290 E. Coronado,* J. R. Galán-Mascarós,
C. Giménez-Saiz, C. J. Gómez-García,
C. Ruiz-Pérez



Hybrid Organic/Inorganic Molecular Materials Formed by Tetrathiafulvalene Radicals and Magnetic Trimeric Clusters of Dimetallic Oxalate-Bridged Complexes: The Series $(\text{TTF})_4\{\text{M}^{\text{II}}(\text{H}_2\text{O})_2[\text{M}^{\text{III}}(\text{ox})_3]_2\} \cdot n\text{H}_2\text{O}$ ($\text{M}^{\text{II}} = \text{Mn, Fe, Co, Ni, Cu}$ and Zn ; $\text{M}^{\text{III}} = \text{Cr}$ and Fe ; $\text{ox} = \text{C}_2\text{O}_4^{2-}$)

Keywords: Coordination chemistry / Hybrid materials / Magnetic properties / O ligands



2299 B. Baruah, V. O. Golub, C. J. O'Connor,
A. Chakravorty*

Synthesis of Oxalato-Bridged (Oxo)vanadium(IV) Dimers Using L-Ascorbic Acid as Oxalate Precursor: Structure and Magnetism of Two Systems

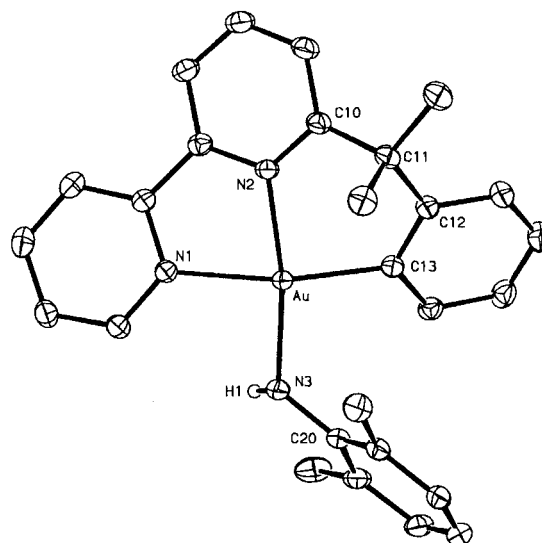
Keywords: Vanadium / Bridging ligands / Magnetic properties

	$a, b (\text{\AA})$	$h (\text{\AA})$	$J (\text{cm}^{-1})$
$[(\text{VO})_2(\text{C}_2\text{O}_4)_3(\text{H}_2\text{O})_2]^{2-}$	2.023, 2.281	0.05	-6.50
$[(\text{VO})_2(\text{C}_2\text{O}_4)(\text{C}_3\text{H}_2\text{O}_4)_2(\text{H}_2\text{O})_2]^{2-}$	2.009, 2.218	0.17	-6.25

2304 M. A. Cinellu,* G. Minghetti, M. V. Pinna,
S. Stoccoro, A. Zucca, M. Manassero

Synthesis and Characterization of Mononuclear Amidogold(III) Complexes – Crystal Structure of $[\text{Au}(\text{N}_2\text{C}_{10}\text{H}_7(\text{CMe}_2\text{C}_6\text{H}_4)-6)(\text{NHC}_6\text{H}_3\text{Me}_{2-2,6})][\text{PF}_6]$ – Oxidation of 4-Methylaniline to Azotoluene

Keywords: Gold / Nitrogen ligands / Metallacycles / Amido complexes / Amine oxidation

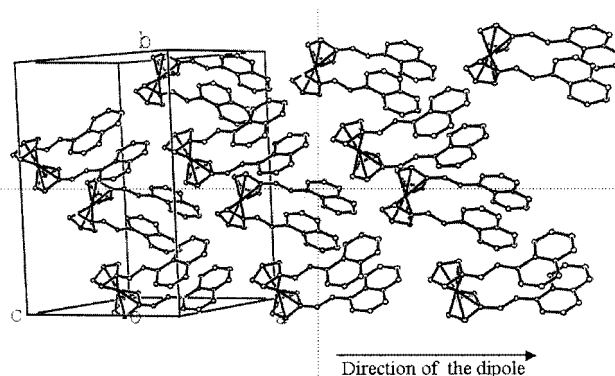


2311 D. M. Shin, I. S. Lee,* Y. K. Chung*



Crystal Engineering with Structurally Flexible 1,1'-Substituted Ferrocenes for Nonlinear Optical Materials

Keywords: Crystal engineering / Hydrogen bonds / Nonlinear optics / π -Interactions

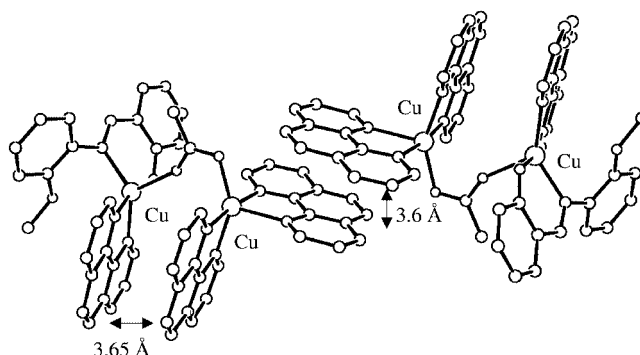


2318 P. A. N. Reddy, M. Nethaji, A. R. Chakravarty*



Ternary Mononuclear and Ferromagnetically Coupled Dinuclear Copper(II) Complexes of 1,10-Phenanthroline and *N*-Salicylidene-2-methoxyaniline that Show Supramolecular Self-Organization

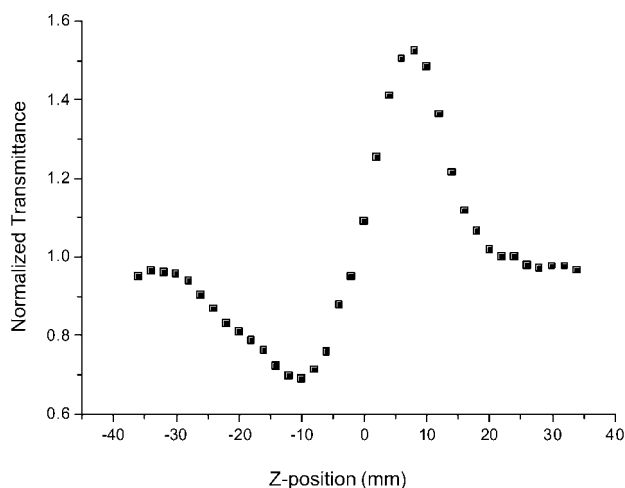
Keywords: Copper / Magnetic properties / N ligands / Stacking interactions / Supramolecular chemistry



2325 H. Hou,* G. Li, Y. Song, Y. Fan, Y. Zhu, L. Zhu

Synthesis, Crystal Structures and Third-Order Nonlinear Optical Properties of Two Novel Ferrocenyl Schiff-Base Complexes $[\text{Ag}(\text{L})_2](\text{NO}_3) \cdot (\text{MeOH}) \cdot (\text{EtOH})$ and $[\text{HgI}_2(\text{L})]$ $\{\text{L} = 1,2\text{-Bis}[(\text{ferrocen-1-ylmethylene})\text{amino}] \text{ethane}\}$

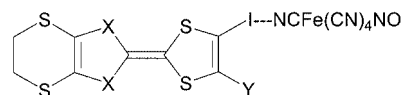
Keywords: Schiff bases / Silver / Mercury / Nonlinear optics



2333 K. Ueda,* T. Sugimoto, C. Faulmann, P. Cassoux

Synthesis, Crystal Structure, and Electrical Properties of Novel Radical Cation Salts of Iodine-Substituted TTF-Derived Donors with the Nitroprusside Anion Exhibiting Strong $\text{-I} \cdots \text{NC-}$ Interactions

Keywords: Cations / Radical ions / Fulvalenes / Conducting materials

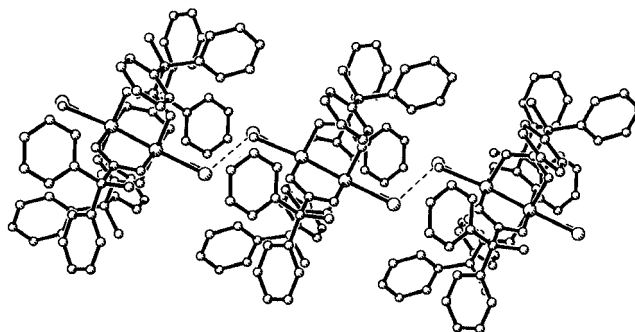


1: X = S, Y = I; 2: X = Se, Y = I; 3: X = S, Y = H

- 2339** M. C. Barral, R. González-Prieto,
R. Jiménez-Aparicio,* J. L. Priego,
M. R. Torres, F. A. Urbanos

Polymeric, Molecular, and Cation/Anion Arrangements in Chloro-, Bromo-, and Iodo-ruthenium(II,III) Carboxylate Compounds

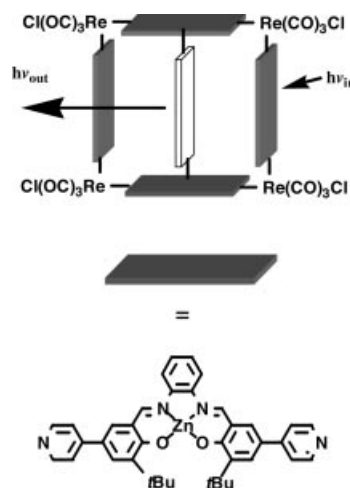
Keywords: Carboxylate / Diruthenium / Metal–metal bonds / Multiple bonds / Ruthenium



- 2348** K. E. Splan, A. M. Massari, G. A. Morris,
S.-S. Sun, E. Reina, S. B. T. Nguyen,
J. T. Hupp*

Photophysical and Energy-Transfer Properties of (Salen)zinc Complexes and Supramolecular Assemblies

Keywords: Host-guest systems / Fluorescence / Supramolecular chemistry / Salen ligands



- 2352** H. Paulsson,* M. Berggrund, A. Fischer,
L. Kloo

Iodoargentates and Cuprates Stabilized by Sulfonium Cations With Long Alkyl Chains

Keywords: Cations / Iodide / Copper / Silver / Crystal structure

