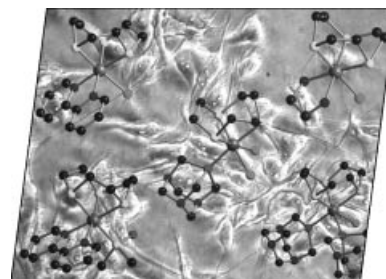


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COVER PICTURE

The cover picture shows the X-ray structures of some new half-sandwich (or piano-stool) $\text{Ru}^{\text{II}}\text{-[9]aneS}_3$ complexes ([9]aneS_3 = 1,3,7-trithiacyclononane) against a background of cells in culture. The complexes of the type $[\text{RuCl}_2(\text{L})(\text{[9]aneS}_3)]$, $[\text{RuCl}(\text{L})_2(\text{[9]aneS}_3)]$ - $[\text{CF}_3\text{SO}_3]$, and $[\text{Ru}(\text{dmsos})(\text{L})_2(\text{[9]aneS}_3)][\text{CF}_3\text{SO}_3]_2$ (L = 1,3,5-triaza-7-phosphaadamantane, PTA; $(\text{L})_2$ = 2 PTA or chelating N-ligand) were prepared from Ru-[9]aneS_3 -dmsos precursors and structurally characterized, both in solution and in the solid state. Some of them are analogues of known cytotoxic half-sandwich $\text{Ru}^{\text{II}}(\eta^6\text{-arene})$ organometallic compounds of the type $[\text{RuCl}(\text{en})(\eta^6\text{-arene})][\text{PF}_6]$ and $[\text{RuCl}_2(\text{PTA})(\eta^6\text{-arene})]$, in which the aromatic fragment is replaced by the sulfur macrocycle [9]aneS_3 while the rest of the coordination sphere is left unchanged. Preliminary in vitro tests performed on some complexes against the mouse adenocarcinoma cancer cell line (TS/A) and the human mammary normal cell line (HBL-100) showed that, in general, the Ru-[9]aneS_3 compounds have a cytotoxicity comparable to that of the corresponding organometallic analogues. These results suggest that the aromatic fragment of the piano-stool Ru^{II} compounds is not an essential feature for the in vitro anticancer activity, and it might be effectively replaced by another face-capping ligand with a low steric demand, such as [9]aneS_3 . Details are discussed in the article by E. Alessio et al. on p. 3423 ff. This work was performed within the framework of COST Action D20, a collaboration between WG 0001 and WG 0005.



MICROREVIEW

Contents

3393 M. Trueba,* S. P. Trasatti

γ -Alumina as a Support for Catalysts: A
 Review of Fundamental Aspects

Keywords: Alumina / Materials science / Micro- and
 macrostructures / Supported catalysts

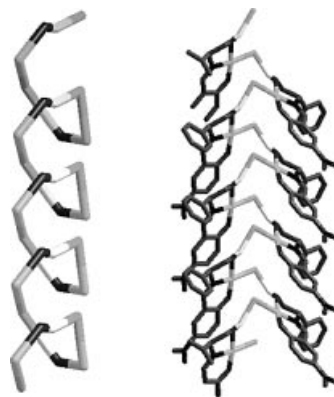


3405 C. P. Pradeep, P. S. Zacharias,* S. K. Das*



A Chiral Copper Complex Forms Supramolecular Homochiral Helices via O–H...Cl–Cu Interactions

Keywords: Copper / Helical structures / Hydrogen bonds / Schiff bases / Self-assembly / Supramolecular chemistry

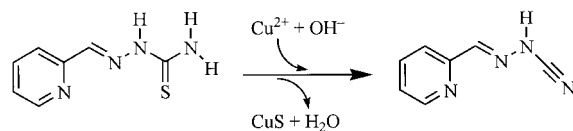


3409 P. Gómez-Saiz, R. Gil-García, M. A. Maestro, J. L. Pizarro, M. I. Arriortua, L. Lezama, T. Rojo, J. García-Tojal*



Unexpected Behaviour of Pyridine-2-carbaldehyde Thiosemicarbazonatocopper(II) Entities in Aqueous Basic Medium – Partial Transformation of Thioamide into Nitrile

Keywords: Copper complexes / Desulfurization / Structure elucidation / Thiosemicarbazone complexes

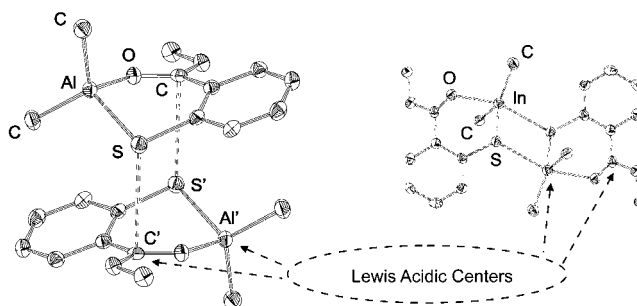


3414 J. Lewiński,* W. Bury, T. Kopeć, E. Tratkiewicz, I. Justyniak, J. Lipkowski



Unprecedented Coordination Mode Variation of Group 13 Metal–Alkyl Compounds Derived from Methyl Thiosalicylate

Keywords: Aluminum / Indium / Noncovalent interactions / Thiolates

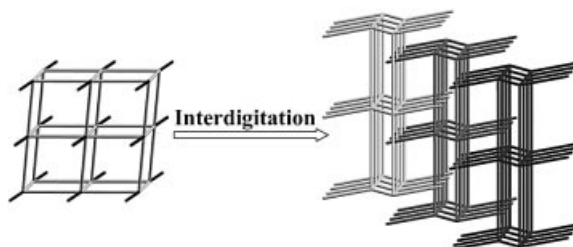


3418 X.-L. Wang, C. Qin, E.-B. Wang,* L. Xu



An Unusual 3D Interdigitated Architecture Self-Assembled from Sidearm-Containing 2D Bilayer Motifs with a Cuboidal Framework

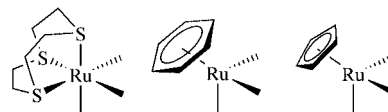
Keywords: Bilayers / Interdigitation / Luminescence / Supramolecular chemistry / Zinc



- 3423** B. Serli, E. Zangrando, T. Gianferrara,
C. Scolaro, P. J. Dyson, A. Bergamo,
E. Alessio*



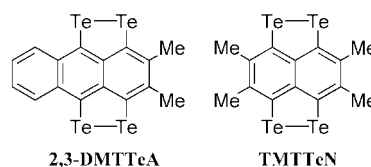
Is the Aromatic Fragment of Piano-Stool Ruthenium Compounds an Essential Feature for Anticancer Activity? The Development of New Ru^{II}-[9]aneS₃ Analogues



Keywords: Antitumor agents / Facial coordination / Half-sandwich complexes / Ruthenium / S ligands

- 3435** E. Fujiwara, H. Fujiwara, B. Z. Narymbetov,
H. Kobayashi, M. Nakata, H. Torii,
A. Kobayashi,* K. Takimiya, T. Otsubo,
F. Ogura

Molecular Conductors Based on *peri*-Ditellurium-Bridged Donors, 2,3-DMTTeA and TMTTeN



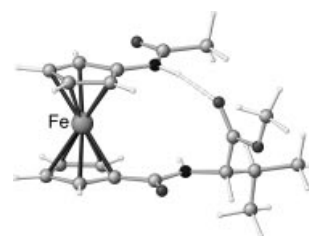
Keywords: Tellurium / Conducting materials / Magnetic properties / Band structure

- 3450** K. Heinze,* M. Beckmann



Conformational Analysis of Chiral Ferrocene–Peptides

Keywords: Conformational analysis / Hydrogen bonds / Metallocenes / Modelling / Peptides

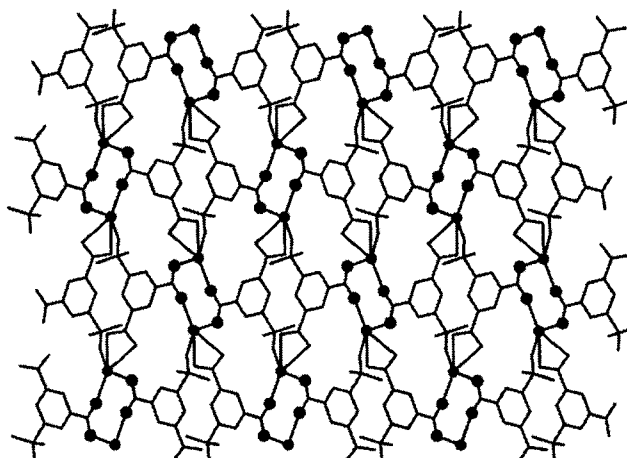


- 3458** Q.-Y. Liu, L. Xu*



Novel Structure Evolution of Lanthanide–SIP Coordination Polymers (NaH₂SIP = 5-Sulfoisophthalic Acid Monosodium Salt) from a 1D Chain to a 3D Network as a Consequence of the Lanthanide Contraction Effect

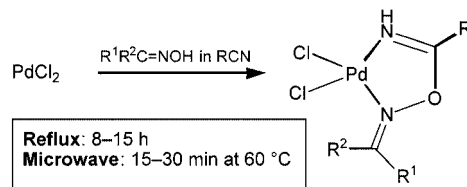
Keywords: Crystal structures / Hydrothermal synthesis / Lanthanides / Lanthanide contraction



- 3467** D. A. Garnovskii, N. A. Bokach,
A. J. L. Pombeiro,* M. Haukka,
J. J. R. Fraústo da Silva, V. Yu. Kukushkin*

Microwave-Assisted and Pd^{II}-Mediated Nitrile–Oxime Coupling

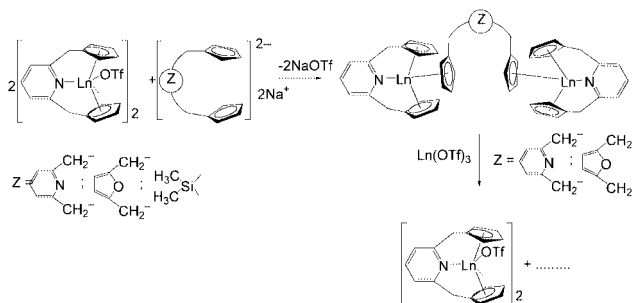
Keywords: Microwave synthesis / Metal-mediated synthesis / Nitriles / Oximes / Nitrile–oxime coupling / Palladium complexes



- 3472** G. Paolucci,* M. Vignola, S. Formenti,
W. Massa

4f-*ansa*-Metallocenes–Dinuclear Complexes where the *ansa*-Dicyclopentadienyl Ligands Simultaneously Act in a Chelating and Bridging Mode – Crystal Structure of (LY)₂(μ-L) [L = 2,6-Pyridinediylbis(methylcyclopentadienyl)]

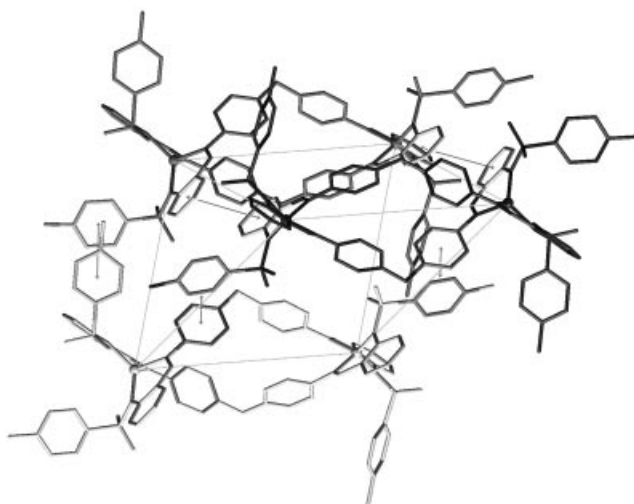
Keywords: Yttrium / Praseodymium / Dinuclear *ansa*-lanthanocenes / Metallocenes



- 3479** M. Vázquez, M. R. Bermejo,* M. Licchelli,
A. M. González-Noya, R. M. Pedrido,
C. Sangregorio, L. Sorace,
A. M. García-Deibe, J. Sanmartín

Non-Covalent Aggregation of Discrete Metallo-Supramolecular Helicates into Higher Assemblies by Aromatic Pathways: Structural and Chemical Studies of New Aniline-Based Neutral Metal(II) Dihelicates

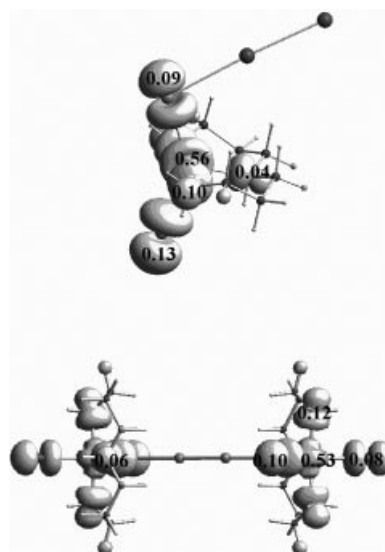
Keywords: Fluorescence / Helical structures / Pi interactions / Self-assembly / Supramolecular chemistry



- 3491** A. T. Chaviara, A. C. Tsepis,* P. J. Cox,
C. A. Bolos*

Synthesis, Structural Characterization, and Density Functional Study of Homo- and Heteropolyhalide Complexes of Cu^{II} with Dien and Dpta Ligands: Crystal Structure of [Bis(3-aminopropyl)amine](bromo)(diiodobromo)copper(II)

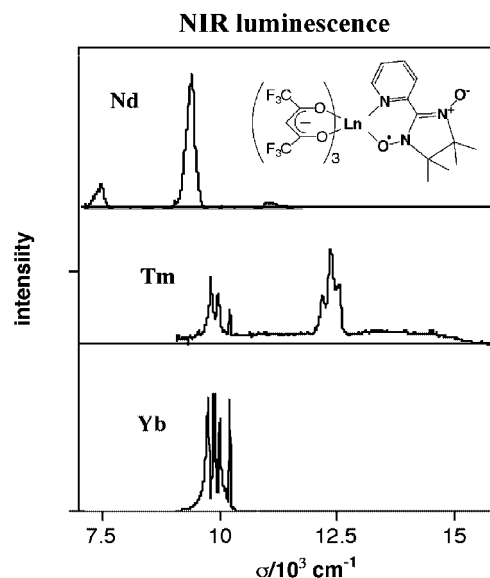
Keywords: Copper / Density functional calculations / Halides / N ligands



3503 S. Kaizaki,* D. Shirotani, Y. Tsukahara,
H. Nakata

First Observation of NIR 4f–4f Luminescence through the Energy Transfer from the SOMO π^* Doublet in Nitronyl Nitroxide Radical Lanthanide(III) Complexes

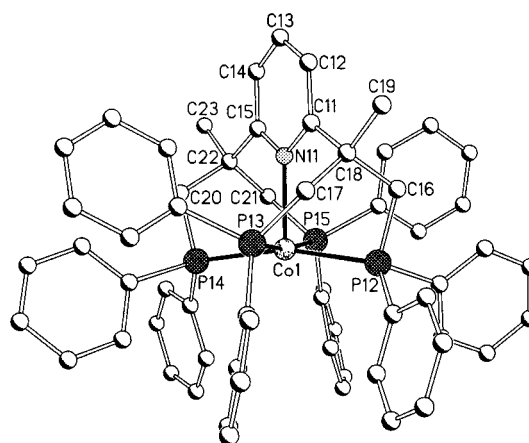
Keywords: Near infrared 4f–4f luminescence / Lanthanide(III) complexes / Nitronyl nitroxide radical / Energy transfer / Antenna effect



3506 C. Zimmermann, F. W. Heinemann,
A. Grohmann*

A Tetraphosphane Imine Ligand Which Enforces Square-Pyramidal Coordination

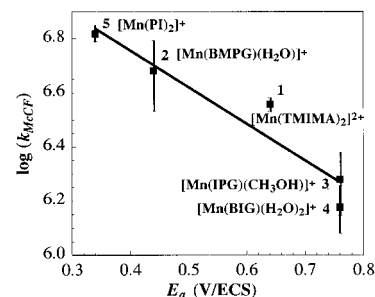
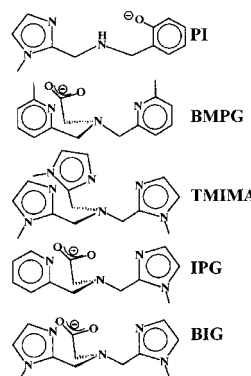
Keywords: Tetrapodal pentadentate ligand / Phosphane ligands / Chelates / Cobalt / Nickel

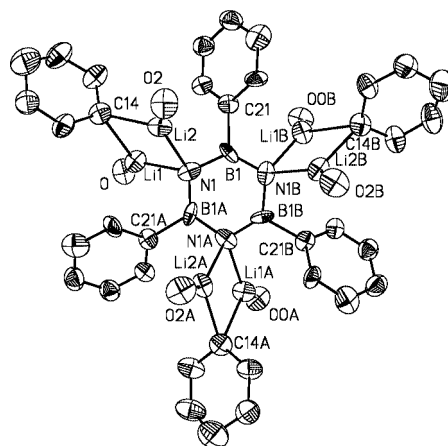


3513 S. Durot, C. Policar,* F. Cisnetti,
F. Lambert, J.-P. Renault, G. Pelosi,
G. Blain, H. Korri-Yousoufi, J.-P. Mahy

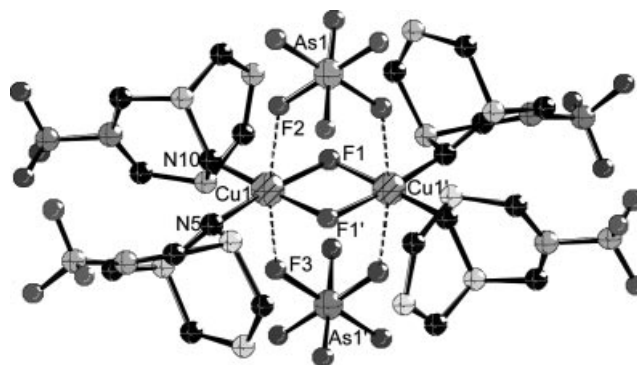
Series of Mn Complexes Based on *N*-Centered Ligands and Superoxide – Reactivity in an Anhydrous Medium and SOD-Like Activity in an Aqueous Medium Correlated to $\text{Mn}^{\text{II}}/\text{Mn}^{\text{III}}$ Redox Potentials

Keywords: N_2O ligands / Manganese / Superoxide / SOD mimics / Imidazole / Phenolate



The *N*-Lithiation of 2,4,6-Triphenylborazine

Keywords: Lithium / Boron / Deprotonation reactions / Tetraphenylborazinate

Complexes of the Bicyclic Multifunctional Sulfur-Nitrogen Ligand $F_3CCN_5S_3$ with Co^{2+} , Zn^{2+} , Cu^{2+} , and Cd^{2+} 

Keywords: Bridging ligands / Heterocycles / N ligands / S ligands / Transition metals



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