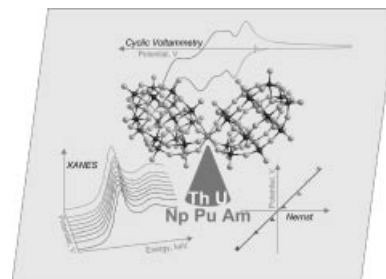


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COVER PICTURE

The cover picture shows the multi-faceted approach required to unravel the complicated electrochemistry presented by Wells–Dawson coordinated actinide (*An*) ions, $[An(\alpha\text{-}2\text{-P}_2\text{W}_{17}\text{O}_{61})_2]^{n-}$ (*An* = Th, U, Np, Pu, Am). These *An*-polyoxometalate (POM) clusters contain two redox centers: the central *An* ion (magenta), except Th^{4+} , and the ligands, $(\alpha\text{-}2\text{-P}_2\text{W}_{17}\text{O}_{61})^{10-}$, for which P is orange, W is black, and O is teal blue. The formal potentials of the *An* ions are extracted by in situ XANES (X-ray absorption near edge structure) spectroelectrochemistry, using the Nernst formalism. This approach provides a unique avenue to quantifying the *An* redox response, because the multi-redox active centers, together with the deep blue color of the ligands upon reduction, exclude more standard experiments. The Nernst approach to XANES data provides information about the electronic influence of POM complexation, which is of fundamental interest as related to correlated electron behavior and of practical significance to separations science in nuclear waste processing. Details are presented in the article by M.-H. Chiang, L. Soderholm and M. R. Antonio on p. 2929ff.



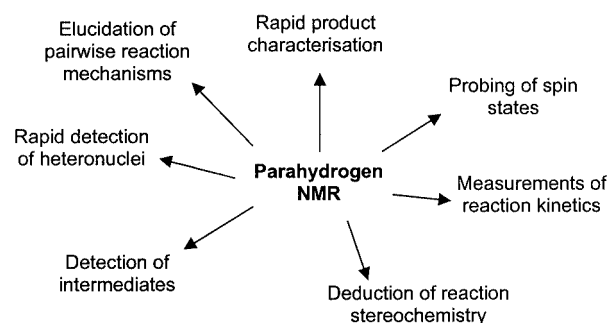
MICROREVIEW

Contents

2901 S. B. Duckett,* D. Blazina

The Study of Inorganic Systems by NMR
 Spectroscopy in Conjunction with Parahydrogen-
 Induced Polarisation

Keywords: NMR spectroscopy / Parahydrogen /
 Iridium / Rhodium / Ruthenium

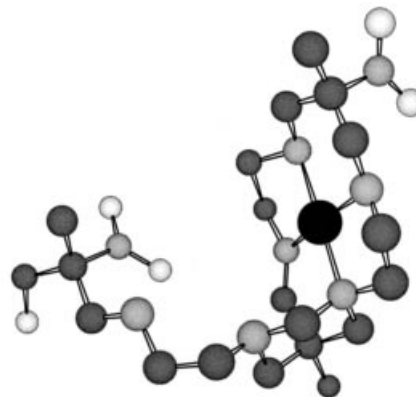


SHORT COMMUNICATIONS

2913 J. Harrowfield,* Y. Kim,* Y. H. Lee,
P. Thuéry

Pendent Arm Formation and Extension accompanying Macrocycle Synthesis – A New Class of Ryongamines?

Keywords: Macrocycles / Pendent arm / X-ray diffraction

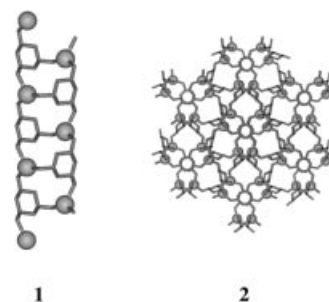


2917 H. Arii, Y. Saito, Y. Funahashi, T. Ozawa,
K. Jitsukawa, H. Masuda*



Silver(I) Complex Crystals Switched by a Water Molecule

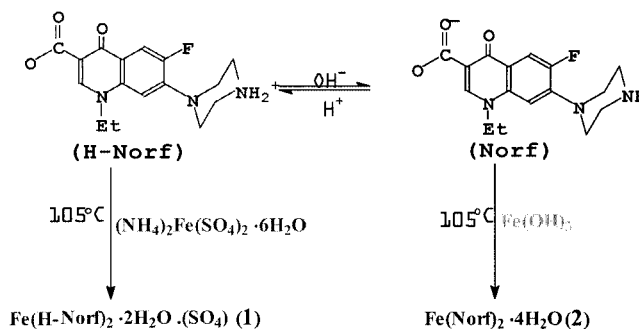
Keywords: Coordination polymers / Hydrogen bonds / Silver



2920 Z.-R. Qu, H. Zhao, L.-X. Xing, X.-S. Wang,
Z.-F. Chen,* Z. Yu,* R.-G. Xiong,*
X.-Z. You

Two Polymeric Complexes of Norfloxacin with Iron(II) and Their Magnetic Properties

Keywords: Nofloxacin / Iron / Coordination polymers / Magnetic properties / Hydrothermal synthesis

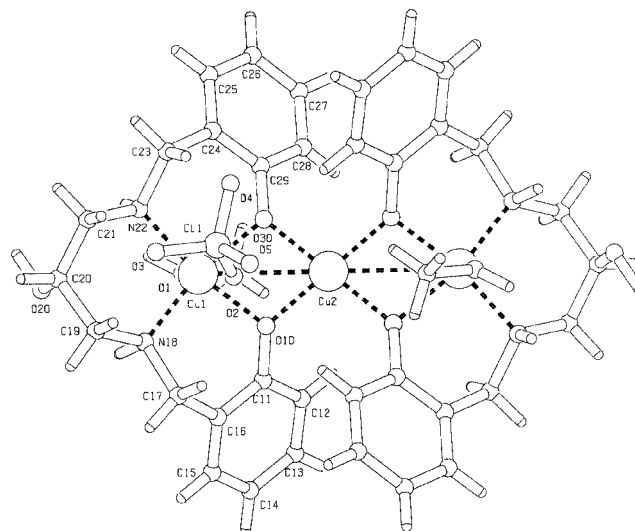


2924 Y. Song, P. Gamez, O. Roubeau, M. Lutz,
A. L. Spek, J. Reedijk*



Structural and Magnetic Characterization of a Linear Trinuclear Copper Complex Formed through Ligand Sharing

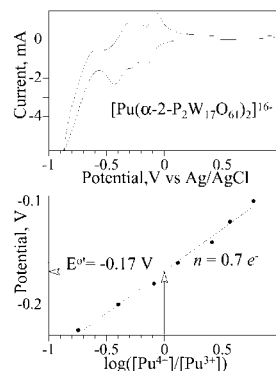
Keywords: Copper / Magnetochemistry / Bioinorganic chemistry / N,O ligands



2929 M.-H. Chiang, L. Soderholm,*
M. R. Antonio*

Redox Chemistry of Actinide Ions in Wells–Dawson Heteropolyoxoanion Complexes

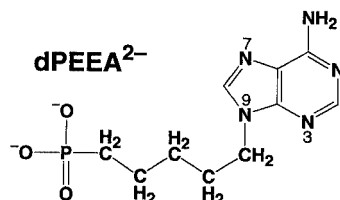
Keywords: Actinides / Cyclic voltammetry / Polyoxo-metalates / Redox chemistry / Nernst analysis / Intermediate valence / Spectro-electrochemistry / XANES



2937 R. B. Gómez-Coca, A. Holý, R. A. Vilaplana,
F. González-Vílchez, H. Sigel*

Solution Structures of Binary and Ternary Metal Ion Complexes of 9-(5-Phosphonopentyl)-adenine (3'-deoxa-PEEA). A Nucleotide Analogue Related to the Antivirally Active 9-[2-(Phosphonomethoxy)ethyl]adenine (PMEA)

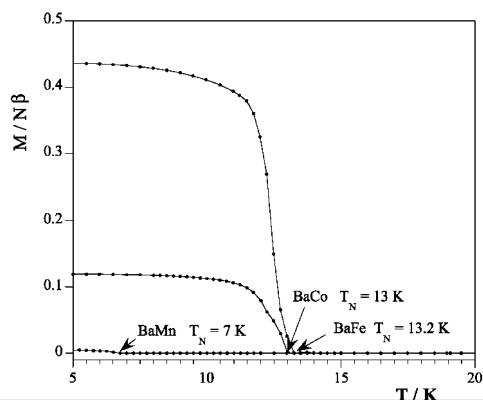
Keywords: Antiviral agents / Chelates / Equilibrium constants / Nucleotides / Stacking interactions



2948 I. Gil de Muro, L. Lezama, M. Insausti,
T. Rojo*

Layered $[\text{BaM}(\text{C}_3\text{H}_2\text{O}_4)_2(\text{H}_2\text{O})_4]$ ($\text{M} = \text{Fe}$ or Co) Complexes – Spectroscopic, Magnetic and Thermal Study

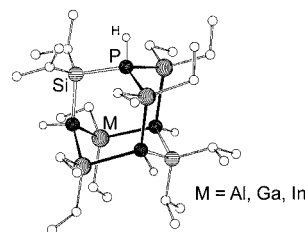
Keywords: Magnetic properties / Barium / Iron / Cobalt / Thermochemistry



2955 C. von Hänisch

Synthesis and Characterisation of Ternary Cage Compounds with Adamantane-Like $\text{M}_4\text{P}_4\text{Si}_2$ ($\text{M} = \text{Al}, \text{Ga}, \text{In}$) Core Structures

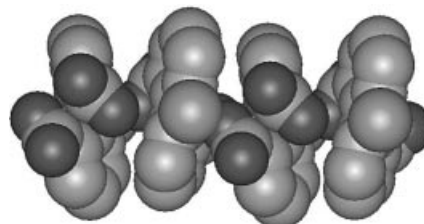
Keywords: Aluminium / Gallium / Silicon / Indium / Phosphorus



2959 X.-M. Zhang, H.-S. Wu, X.-M. Chen*

Linear and Helical Chains in Hydrothermally Synthesized Coordination Polymers $[\text{Co}(\text{bpdc})-(\text{H}_2\text{O})_2]$ and $[\text{Ni}(\text{bpdc})(\text{H}_2\text{O})_3] \cdot \text{H}_2\text{O}$ Involving in situ Ligand Synthesis

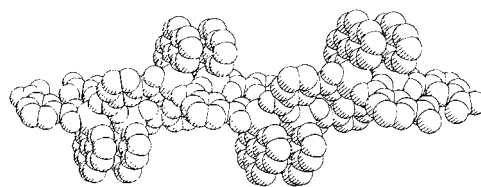
Keywords: Coordination polymers / N ligands / Helical structures / Hydrothermal synthesis / Cobalt / Nickel



2965 L.-Y. Zhang, G.-F. Liu, S.-L. Zheng,
B.-H. Ye, X.-M. Zhang, X.-M. Chen*

Helical Ribbons of Cadmium(II) and Zinc(II)
Dicarboxylates with Bipyridyl-Like Chelates –
Syntheses, Crystal Structures and Photolumi-
nescence

Keywords: Coordination polymers / Cadmium / Zinc /
N ligands / π interactions

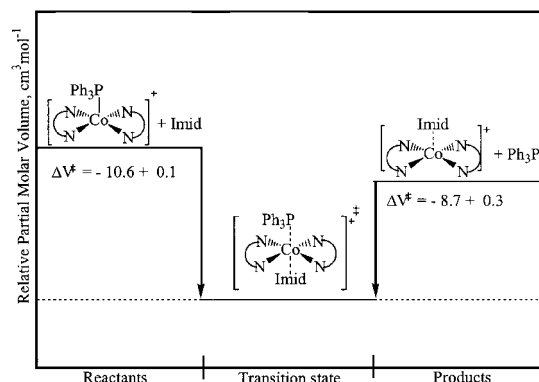


2972 B. M. Aizoubi, M. S. A. Hamza,
C. Dücker-Benfer, R. van Eldik*



Mechanistic Insight Gained into the Ligand
Substitution Reactions of Bis(*o*-benzosemi-
quinonediiminato)(triphenylphosphane)cobalt(III)
– Kinetic, Solvent, and Volume Profile Studies

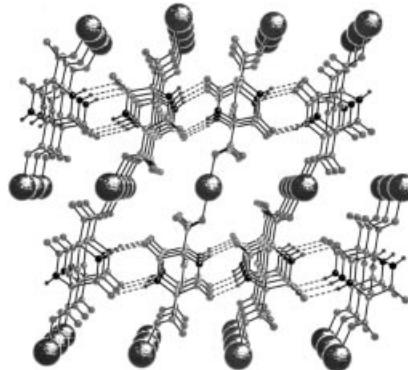
Keywords: Cobalt / Kinetics / Ligand substitution /
Mechanism / Pressure dependence /
Solvent effects



2979 D. A. Lenev, K. A. Lyssenko,
R. G. Kostyanovsky*

Rational Design, Synthesis and Crystal Struc-
ture Investigation of Hydrogen-Bonded Coordi-
nation Polymers of Bicyclic Bis-Lactam Di-
carboxylates

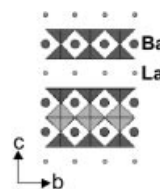
Keywords: Carboxylate ligands / Chirality / Crystal
engineering / Hydrogen bonding / Lactams



2986 L. Ruiz-González, K. Boulahya, M. Parras,
J. Alonso, J. M. González-Calbet*

HREM and CIP Characterization of Complex
Superstructures in Cu-Co Related Perovskites

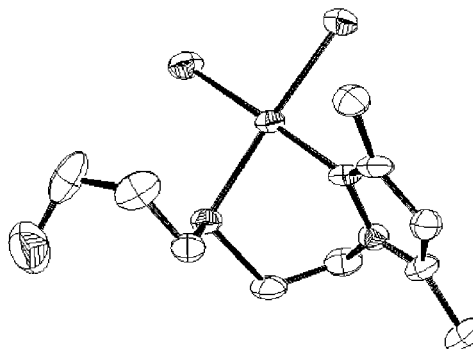
Keywords: Perovskite phases / Superstructures /
Electron diffraction / Electron microscopy



2992 J. García-Antón, J. Pons,* X. Solans,
M. Font-Bardia, J. Ros*

Synthesis, Characterisation, and X-ray Crystal
Structure of New Ni^{II}, Pd^{II}, and Pt^{II} Complexes
of Tridentate Pyrazole-Based Ligands with an
NOS-Donor Set

Keywords: Nickel / N ligands / O ligands / Palladium /
Platinum / S ligands

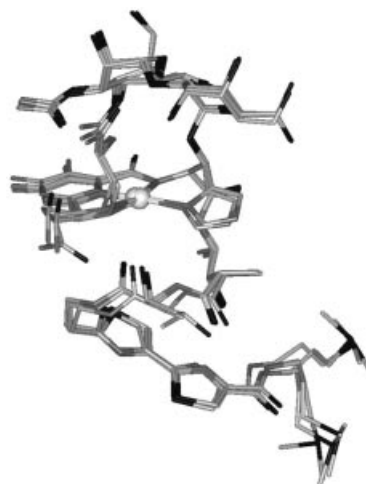


3001 A. Papakyriakou, N. Katsaros*



NMR and Molecular Modelling Studies on the Solution Structure of the In^{III} –Bleomycin A2 Complex

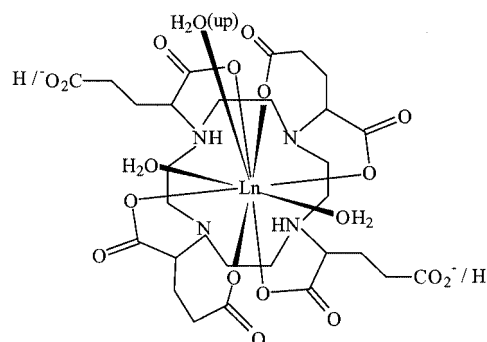
Keywords: Antitumor agents / Indium / Molecular dynamics / N ligands / NMR spectroscopy



3007 J. Moreau, E. Guillon, P. Aplincourt, J.-C. Pierrard, J. Rimbault,* M. Port, M. Aplincourt

Thermodynamic and Structural Properties of Eu^{3+} , Gd^{3+} and Tb^{3+} Complexes with 1,4,7,10-Tetra(2-glutaryl)-1,4,7,10-tetraazacyclododecane in Solution: EXAFS, Luminescence, Potentiometric Studies, and Quantum Calculations

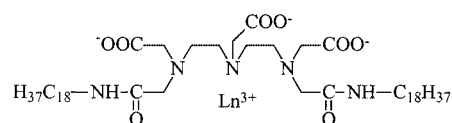
Keywords: Lanthanides / Imaging agents / EXAFS spectroscopy / Luminescence / Ab initio calculations



3021 K. Kimpe, T. N. Parac-Vogt, S. Laurent, C. Piérart, L. V. Elst, R. N. Muller, K. Binnemans*

Potential MRI Contrast Agents Based on Micellar Incorporation of Amphiphilic Bis(alkylamide) Derivatives of $[(\text{Gd}-\text{DTPA})(\text{H}_2\text{O})]^{2-}$

Keywords: Imaging agents / Contrast agents / Lanthanides / Micelles / N,O ligands / NMR spectroscopy

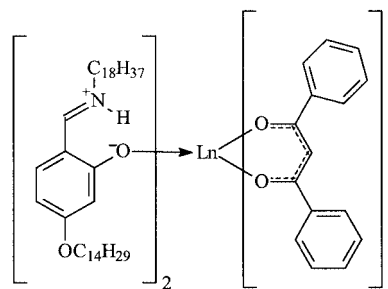


3028 K. Binnemans,* K. Lodewyckx, T. N. Parac-Vogt, R. Van Deun, B. Goderis, B. Tinant, K. Van Hecke, L. Van Meervelt



Adducts of Schiff Bases with Tris(β -diketonato)-lanthanide(III) Complexes: Structure and Liquid-Crystalline Behaviour

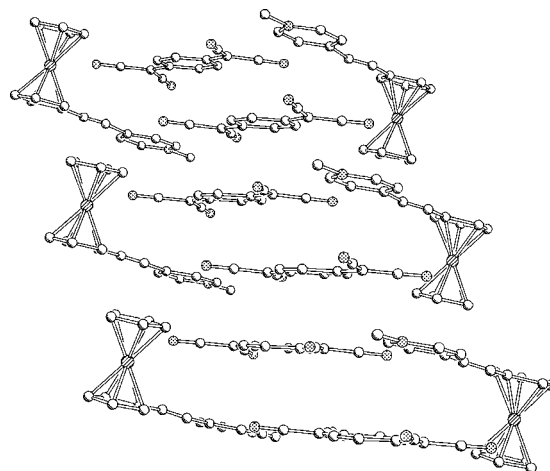
Keywords: Lanthanides / Liquid crystals / Metallo-mesogens / Supramolecular chemistry



- 3034** L. Ballester, A. M. Gil, A. Gutiérrez,*
M. F. Perpiñán, A. E. Sánchez, M. Fonari,
K. Suwinska, V. Belsky

Radical Ion Salts Obtained from Substituted Ferrocene Cations and the Organic Acceptor TCNQ – Synthesis, Structure and Physical Properties

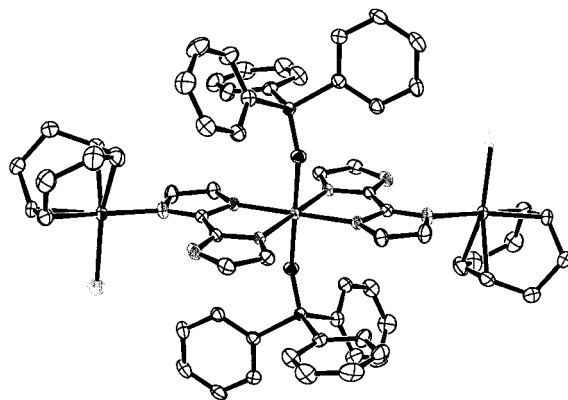
Keywords: Metallocenes / Radical ions / Stacking interactions / Supramolecular chemistry



- 3042** P. Comba,* A. Mayboroda, H. Pritzkow

Homogeneous Hydrogenation Catalyzed by Trinuclear $\text{Rh}^{\text{I}}\text{-Os}^{\text{III}}\text{-Rh}^{\text{I}}$ Complexes

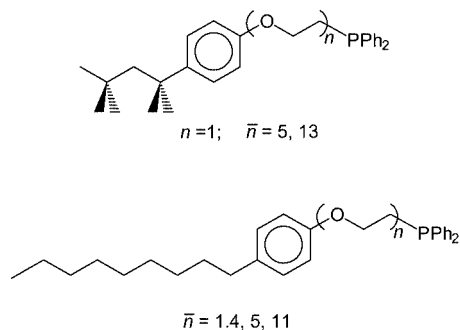
Keywords: Osmium / Rhodium / Heterometallic complexes / Hydrogenation



- 3047** E. Valls, J. Suades,* R. Mathieu, N. Lugan

New Rhodium(I) Complexes with Hemilabile Amphiphilic Phosphanes

Keywords: Phosphanes / Rhodium / Hemilabile ligands / Amphiphiles



CORRECTION

- 3055** R. Caspar, H. Amouri,* M. Gruselle,
C. Cordier, B. Malézieux, R. Duval,
H. Leveque

Efficient Asymmetric Synthesis of Δ - and Λ -Enantiomers of (Bipyridyl)ruthenium Complexes and Crystallographic Analysis of Δ -Bis(2,2'-bipyridine)(2,2'-bipyridine-4,4'-dicarboxylato)-ruthenium: Diastereoselective Homo- and Heterochiral Ion Pairing Revisited

Keywords: Ruthenium / Chiral resolution / Circular dichroism