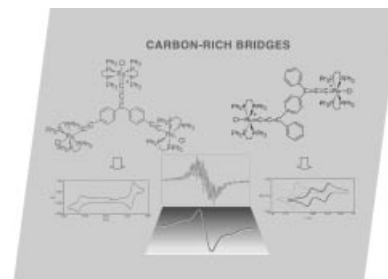


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COVER PICTURE

The cover picture shows two examples of stable polynuclear ruthenium systems containing delocalized carbon-rich bridges with unusual topologies. In this work, the synthesis, the spectroscopic and voltammetric studies of a new family of bis(allenylidene) and mixed allenylidene–acetylide complexes are presented. The nature of the reduced species, which are mainly ligand-centered, is pointed out by means of ESR and IR spectroscopy. The UV/Vis and electrochemical studies show the large influence of the bridge on the electronic interaction between the redox centers and the fine tuning of this property. These new conjugated molecules appear to be promising alternatives to the classical bis(acetylide) systems for the construction of metal-containing unsaturated oligomers or polymers to mediate electron-transfer processes. Details are discussed in the article by S. Rigaut, D. Touchard et al. on p. 447ff.



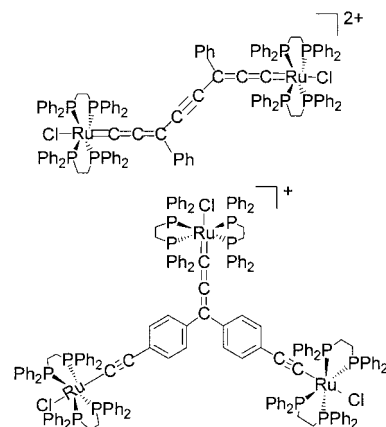
FULL PAPERS

Contents

- 447 S. Rigaut,* J. Perruchon, S. Guesmi,
 C. Fave, D. Touchard,* P. H. Dixneuf

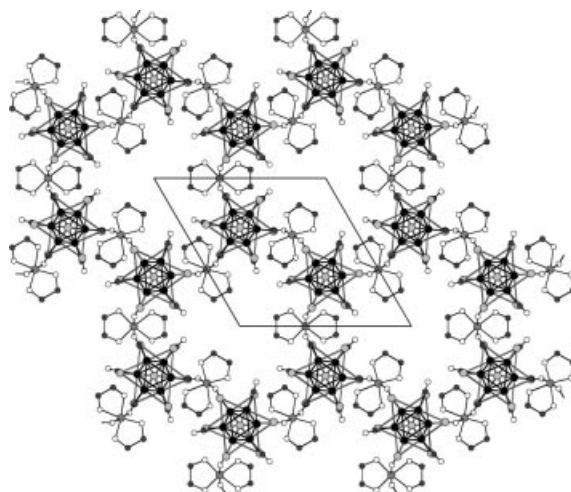
Carbon-Rich Ruthenium Complexes Containing
 Bis(allenylidene) and Mixed Alkynyl–Allenyl-
 idene Bridges

Keywords: Allenylidene / Bridging ligands / Ruthenium /
 Redox systems / Alkynyl ligands



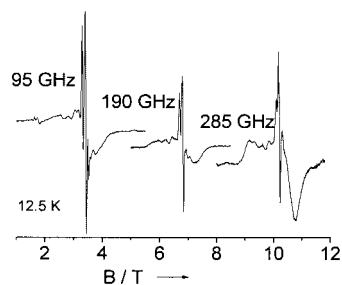
Structural Diversity of Low-Dimensional Compounds in $[M(en)_2]^{2+}/[Re_6Q_8(CN)_6]^{4-}$ Systems (M = Mn, Ni, Cu)

Keywords: Amines / Cluster compounds / Cyanides / Rhenium / Solid-state structures



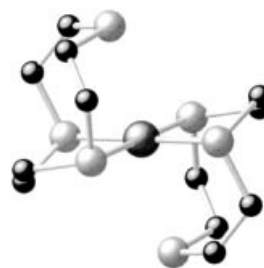
High-Field EPR Study of Frozen Aqueous Solutions of Iron(III) Citrate Complexes

Keywords: High-field EPR spectroscopy / Iron / Coordination chemistry / Citrate ligand / Tripodal ligand / Spin crossover



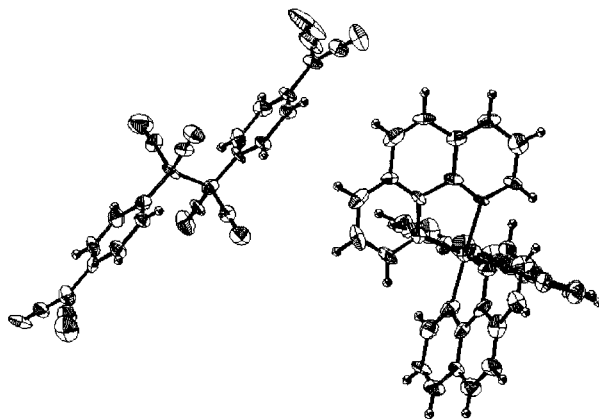
Anion and Solvent Effects upon the Structures of Platinum(II) Complexes with Thiocrown Ligands: The Crystal Structures of $[Pt(9S3)_2](PF_6)_2 \cdot 2 CH_3NO_2$, $[Pt(9S3)_2](BF_4)_2 \cdot 2 CH_3NO_2$, $[Pt(9S3)_2](OTf)_2 \cdot 2 CH_3NO_2$, and $[Pt(18S6)](BF_4)_2$

Keywords: S ligands / Platinum



Tetracyanoquinodimethanido Derivatives of (Terpyridine)- and (Phenanthroline)metal Complexes – Structural and Magnetic Studies of Radical-Ion Salts

Keywords: Radical ions / Stacking interactions / Supramolecular chemistry / Magnetic properties

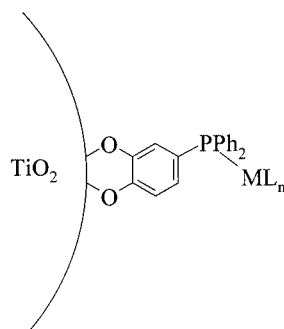


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N. T. Lucas, J. M. Hook,
A. M. McDonagh,* S. B. Colbran*

Titanium Dioxide Nanoparticles Functionalized with Pd and W Complexes of a Catechol-phosphane Ligand

Keywords: Palladium / Tungsten / Phosphane ligands / Titanium



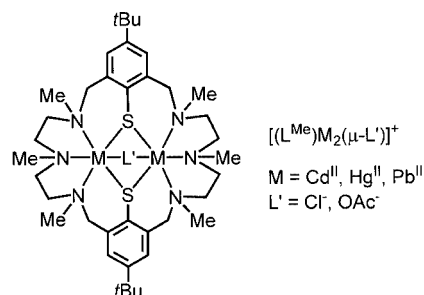
M = Pd, W

504

V. Lozan, B. Kersting*

Preparation and Characterisation of Cd^{II}, Hg^{II} and Pb^{II} Complexes of a Macrodinucleating Hexaaza-dithiophenolate Ligand

Keywords: Macrocyclic ligands / Cadmium / Mercury / Lead / Complexes

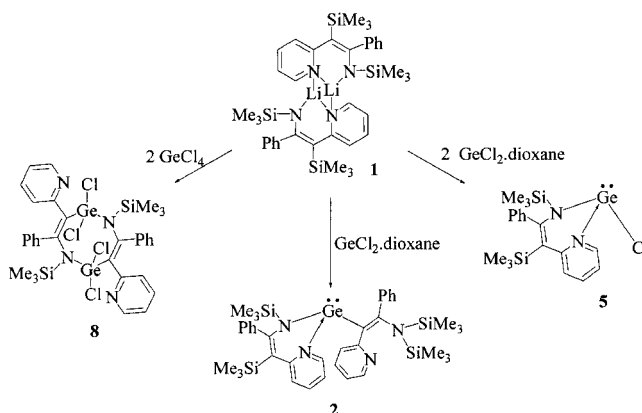


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W.-P. Leung,* C.-W. So, Y.-S. Wu,
H.-W. Li, T. C. W. Mak

Synthesis of Group 14 Metal Enamido, Alkenyl, Imido and Alkenyl-Amido Complexes from a Monoanionic Pyridyl-1-azaallyl Ligand

Keywords: Germanium / Group 14 elements / Lead / N ligands / Tin

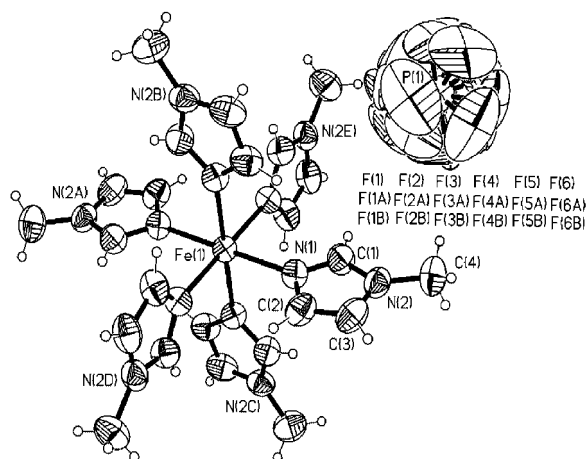
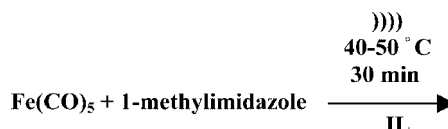


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D. S. Jacob, V. Kahlenberg, K. Wurst,
L. A. Solovyov, I. Felner, L. Shimon,
H. E. Gottlieb, A. Gedanken*

Sonochemical Reaction of [Fe(CO)₅] with 1-Methylimidazole in An Ionic Liquid: Formation of [(1-Methylimidazole)₆Fe^{II}](PF₆)₂

Keywords: Ionic liquid / Sonochemistry / Iron imidazole complex

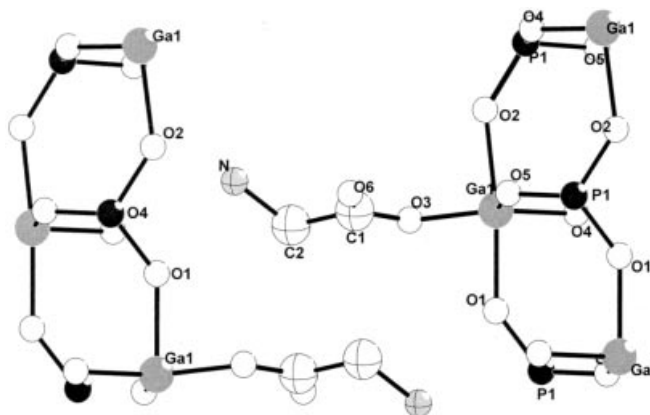


Monomers, Chains and Layers of $[\text{Pt}_2(\text{SO}_4)_4]$ Units in the Crystal Structures of the Platinum(III) Sulfates $(\text{NH}_4)_2[\text{Pt}_2(\text{SO}_4)_4(\text{H}_2\text{O})_2]$, $\text{K}_4[\text{Pt}_2(\text{SO}_4)_5]$ and $\text{Cs}[\text{Pt}_2(\text{SO}_4)_3(\text{HSO}_4)]$



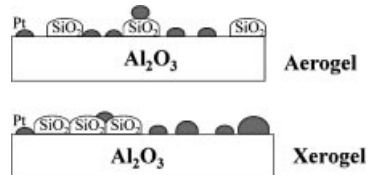
Keywords: Solid state structures / Platinum / Sulfates / Metal–metal bonds / IR data

A New Organic-Inorganic Hybrid Gallophosphate Prepared in the Presence of Glycine



Keywords: Gallium / Gallophosphate / Glycine / Hydrothermal synthesis / Fluorides

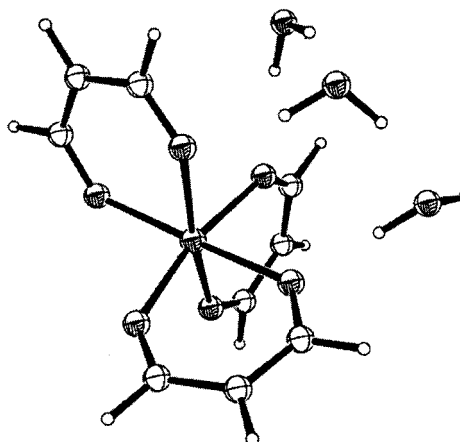
Aerogel and Xerogel Catalysts Based on θ -Alumina Doped with Silicon for High Temperature Reactions



Keywords: Aerogel / Xerogel / Catalyst / Platinum / Alumina



Outer-Sphere Hydration and Liquid–Liquid Partition of Metal(III) Chelates – Density Functional Calculations



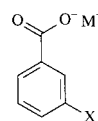
Keywords: Metal chelates / Outer-sphere hydration / Hydrogen bonding / Aqueous solution / Liquid–liquid partition / Enthalpy of transfer / Density functional calculations / Solvent effects / Implicit solvation model

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R. Van Deun, J. Ramaeckers,
P. Nockemann, K. Van Hecke,
L. Van Meervelt, K. Binnemans*

Alkali-Metal Salts of Aromatic Carboxylic
Acids: Liquid Crystals without Flexible Chains

Keywords: Alkali metals / Layered compounds /
Liquid crystals / Metallomesogens / Smec-
tic mesophases



Smectic A

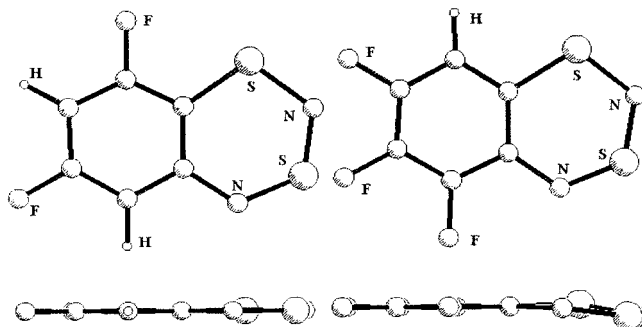
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A. R. Turner, F. Blockhuys,
C. Van Alsenoy, H. E. Robertson,
S. L. Hinchley, A. V. Zibarev,
A. Y. Makarov, D. W. H. Rankin*



Causes of Nonplanarity in Fluorinated
1,3λ⁴δ²,2,4-Benzodithiadiazines: Gas-Phase
Electron Diffraction, Ab initio and DFT Struc-
tures

Keywords: Antiaromaticity / Fluorinated 1,3λ⁴δ²,2,4-
benzodithiadiazines / Molecular structure /
Ab initio calculations / Density functional
calculations

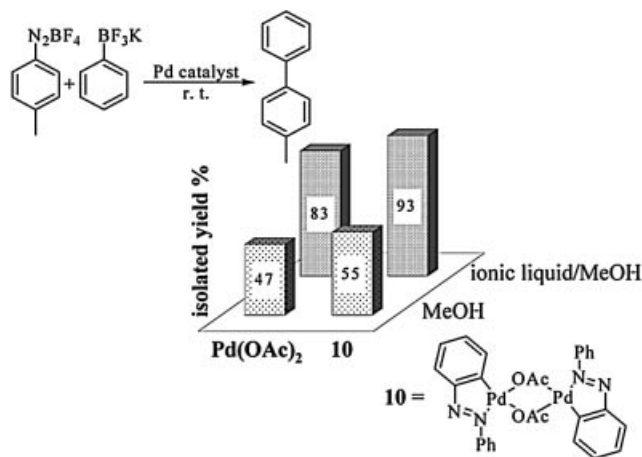


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V. Gallo, P. Mastrorilli,* C. F. Nobile,
R. Paolillo, N. Taccardi

Ionic Liquids as Reaction Media for Palladium-
Catalysed Cross-Coupling of Aryldiazonium
Tetrafluoroborates with Potassium Organo-
trifluoroborates

Keywords: C-C coupling / Diazonium salts / Homo-
geneous catalysis / Ionic liquids / Organo-
trifluoroborates



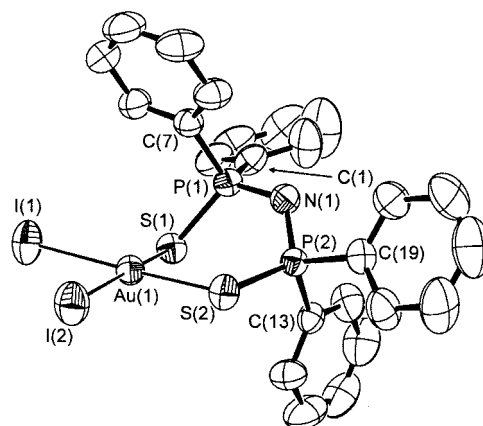
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G. L. Abbati, M. C. Aragoni, M. Arca,
M. Bonaria Carrea, F. A. Devillanova,
A. Garau, F. Isaia,* V. Lippolis,
M. Marcelli, C. Silvestru, G. Verani



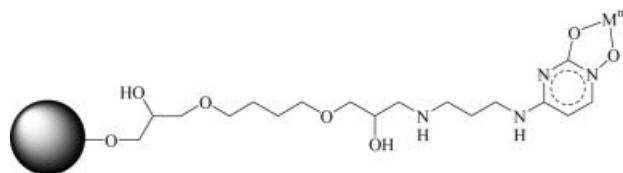
Gold(0) and Gold(III) Reactivity towards
the Tetraphenylidithioimidodiphosphinic Acid,
[Ph₂P(S)NHP(S)Ph₂]

Keywords: Gold(I) complexes / S ligands / Bridging
ligands / Iodine / Density functional
calculations



597 M. A. Esteves,* A. Cachudo, S. Chaves,
M. A. Santos

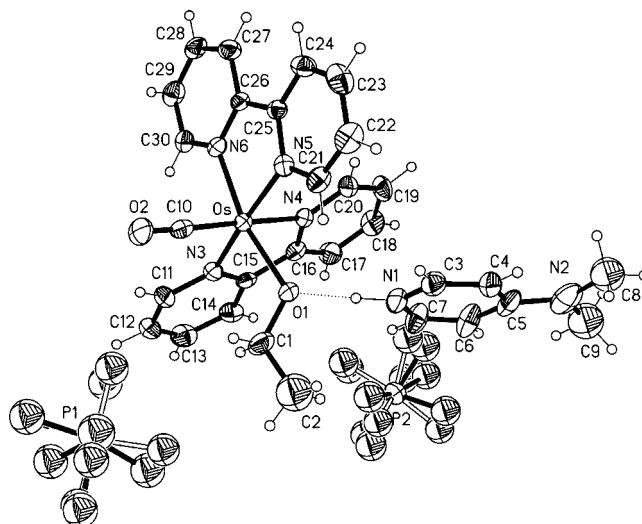
Synthesis and Metal-Complexation Properties of
a New Hydroxypyrimidinone-Functionalized
Sephacrose



Keywords: Actinides / Chelates / Environmental
chemistry / O ligands / Functionalized
sephacrose

606 C. Garino, R. Gobetto,* C. Nervi,
L. Salassa, G. Croce, M. Milanesio,
E. Rosenberg, J. B. A. Ross

Solid-State Structure, Quantum Calculations
and Spectroscopic Characterization of the
Hydrogen-Bonded Complex $[\text{Os}(\text{bpy})_2(\text{CO})\cdot(\text{EtO}\cdots\text{H}\cdot\text{DMAP})][\text{PF}_6]_2$



Keywords: Density functional calculations / Hydrogen
bonds / N ligands / NMR spectroscopy /
Osmium