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Gerard Parkin

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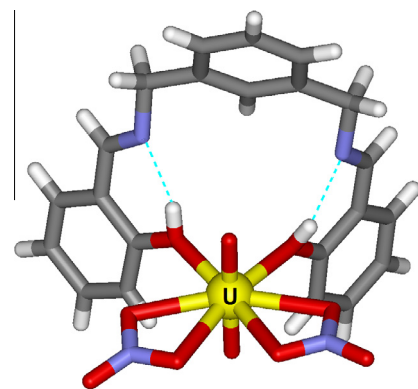
Special Issue in Honor of Professor
Catherine E. Housecroft

Harold B. Tanh Jeazet, Kerstin Gloe, Thomas Doert, Jens Mizera, Olga N. Kataeva, Satoru Tsushima, Gert Bernhard, Jan J. Weigand, Leonard F. Lindoy and Karsten Gloe

Polyhedron 103 (2016) 198

Uranyl(VI) binding by bis(2-hydroxyaryl)diimine and bis(2-hydroxyaryl)diamine ligand derivatives. Synthetic, X-ray, DFT and solvent extraction studies

Uranyl(VI) nitrate reacts with bis(2-hydroxyaryl)diimine and bis(2-hydroxyaryl)diamine ligand derivatives incorporating 1,3-dimethylenebenzene or 1,3-dimethylenecyclohexane bridges between nitrogen sites to yield unusual $[\text{UO}_2(\text{H}_2\text{L})(\text{NO}_3)_2]$ complexes in which each H_2L only coordinates via its phenolic OH groups. In solvent extraction studies, clear uptake preference for UO_2^{2+} over Eu^{3+} was observed.

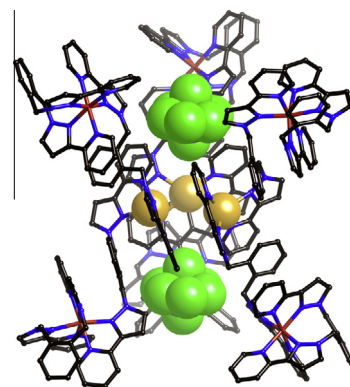


Alexander J. Metherell and Michael D. Ward

Polyhedron 103 (2016) 206

Reprint of "Ru(II)/Ag(I) mixed-metal complexes based on kinetically inert Ru(II) complexes with pendant binding sites as subcomponents"

Simple mononuclear Ru(II) complexes with pendant N-donor bidentate binding sites assemble around Ag(I) ions to give Ru(II)/Ag(I) supramolecular assemblies in which H-bonding, π -stacking and Ag \cdots Ag argentophilic interactions contribute to the unusual network structures.

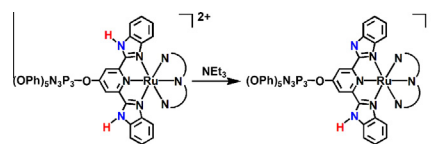


**Ross J. Davidson, Eric W. Ainscough,
Andrew M. Brodie, Geoffrey B. Jameson
and Mark R. Waterland**

Polyhedron 103 (2016) 217

Chemical and physical behaviour of heteroleptic 2,6-bis(1*H*-benzimidazol-2-yl)pyridine and 2,2':6',2''-terpyridine substituted tricyclophosphazene ruthenium(II) complexes

New complexes containing 2,6-bis(1*H*-benzimidazol-2-yl)pyridine or 2,2':6',2''-terpyridine moieties coordinated to ruthenium(II) and attached to (pentaphenoxo)cyclotriphosphazene have been synthesised. The complexes were studied by NMR, electronic absorption and vibrational spectroscopy. The sequential reaction of the fully protonated complexes with triethylamine has been examined.

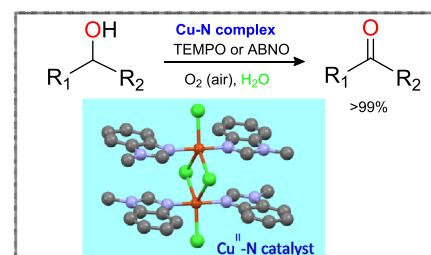


**Guoqi Zhang, Yuan Zhuo Zhang,
Wen-Feng Lo, Jianfeng Jiang,
James A. Golen and Arnold L. Rheingold**

Polyhedron 103 (2016) 227

Diverse copper(II) complexes with simple nitrogen ligands: Structural characterization and applications in aerobic alcohol oxidations in water

Four new copper(II) complexes with diverse structures were isolated and structurally characterized by X-ray diffraction analysis. The catalytic activity of these complexes towards nitroxyl radical-mediated aerobic alcohol oxidations was tested in water and the structure-catalytic activity relationship was discussed.

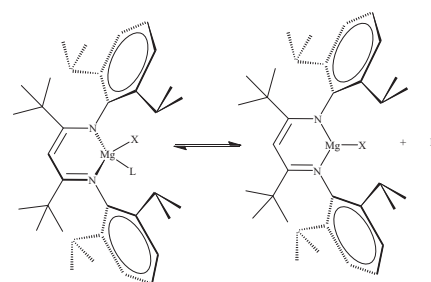


**Vagulejan Balasanthiran,
Malcolm H. Chisholm, Kittisak Choojun,
Christopher B. Durr and
Pasco M. Wambua**

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$\text{BDI}^+ \text{MgX}(\text{L})$ where $\text{X} = \text{}^t\text{Bu}$ and O^tBu and $\text{L} = \text{THF}$, py and DMAP . The rates of kinetic exchange of L where $\text{BDI}^+ = \text{CH}\{\text{C}(\text{}^t\text{Bu})\text{N}-2,6\text{-}^i\text{Pr}_2\text{C}_6\text{H}_3\}_2$

$\text{BDI}^+ \text{MgX}(\text{L})$, where $\text{X} = \text{}^t\text{Bu}$ or O^tBu and $\text{L} = \text{THF}$, 2-MeTHF, py and DMAP , undergo the reversible reaction shown above by a dissociative process involving the loss of the ligand, L . This process is involved in the rate of polymerization of *rac*-LA to give heterotactic PLA.

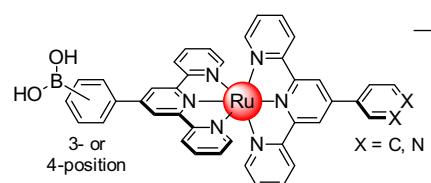


**Chao Shen, Pi Wang and
Jonathon E. Beves**

Polyhedron 103 (2016) 241

New ruthenium(II) complexes of 2,2':6',2''-terpyridine derivatives as supramolecular building blocks

Eight new heteroleptic Ru(II) complexes of 2,2':6',2''-terpyridine which could act as supramolecular building blocks are reported and characterized by NMR and MS.



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