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Gerard Parkin

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Special Issue in Honour of Professor Malcolm L.H. Green on the Occasion of his 80th Birthday

Sarah Keller, Alessandro Prescimone, Edwin C. Constable and Catherine E. Housecroft

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Dinuclear $[Cu_2(N^N)(P^P)_2][PF_6]_2$ complexes containing bridging 2,3,5,6-tetra(pyridin-2-yl)-pyrazine or 2,4,6-tri(pyridin-2-yl)-1,3,5-triazine ligands

Dinuclear copper(I) complexes $[Cu_2(1)(POP)_2]$ $[PF_6]_2$, $[Cu_2(2)(POP)_2][PF_6]_2$, $[Cu_2(1)(xantphos)_2][PF_6]_2$ and $[Cu_2(2)(xantphos)_2]$ $[PF_6]_2$ containing bridging 2,3,5,6-tetra(-pyridin-2-yl)pyrazine (1) or 2,4,6-tri(pyr-idin-2-yl)-1,3,5-triazine (2) ligands and the P^P ligands bis(2-(diphenylphosphino)-phenyl)ether (POP) or 4,5-bis(diphenyl-phosphino)-9,9-dimethylxanthene (xant-phos) are reported.



Wubing Yao, Xiangqing Jia, Xuebing Leng, Alan S. Goldman, Maurice Brookhart and Zheng Huang

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Catalytic alkane transfer-dehydrogenation by PSCOP iridium pincer complexes

New (^{tBu2}PSCOP^{R2})IrHCl iridium complexes ligated by hybrid phosphinothiousphosphinite PSCOP ligands have been synthesized and characterized. The steric properties of the pincer ligands prove to have a marked impact on catalytic activities of these complexes in transfer-dehydrogenation of cyclic and linear alkanes.







Benjamin R. Mullaney, Matthew J. Cunningham, Jason J. Davis and Paul D. Beer

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Acyclic halogen and hydrogen bonding diquatcontaining receptors for the electrochemical sensing of anions The first examples of halogen and hydrogen bonding anion receptors containing the redox-active diquat motif, and their anion recognition and electrochemical sensing properties are described. The halogen bonding host displayed the strongest halide binding affinities in competitive solvents, and the redox-active diquat group is shown to be an effective electrochemical sensing probe for halides.

Contents



Alexander F.R. Kilpatrick, David R. Johnston, Jennifer C. Green, Nikolaos Tsoureas, Martyn P. Coles and F. Geoffrey N. Cloke

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Complexes of iron(II) with silylated pentalene ligands; building blocks for homo- and hetero-bimetallics

A range of iron(II) complexes incorporating the silylated pentalene ligands (Pn[†]H = 1,4-{SiⁱPr₃}₂C₈H₅ and Pn[†] = 1,4-{SiⁱPr₃}₂C₈H₄) have been prepared and investigated as building blocks for metallocene-based polymers. DFT calculations reveal the charge densities on the pentalene ligand, and hence the potential for incorporating these units into heteronuclear bimetallic complexes.



Miles Wilklow-Marnell, William W. Brennessel and William D. Jones

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Formation of 5-membered metallacycles at ^{iPr}PCPIr by C–H, O–H, and C–CO bond cleavage

Cyclometalation of the 16 electron ^{iPr}PCPIr fragment (^{iPr}PCP = κ^3 -2,6-C₆H₃(CH₂P-(iPr)₂)₂) by biphenyl, phenanthrene, fluorenone, benzophenone, and 1-naphthol leads to double C–H activation, decarbonylation, and cyclometallation to form metallacycles.



Brian P. Jacobs, Rishi G. Agarwal, Peter T. Wolczanski, Thomas R. Cundari and Samantha N. MacMillan

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Fe(IV) alkylidenes are actually Fe(II), and a related octahedral Fe(II) "alkylidene" is a conjugated vinyl complex

Calculations on previously synthesized "Fe(IV) alkylidenes" are more consistent with Fe(II) centers bound to carbenium and oxidized chelate ligands. Attempts to prepare L_n Fe=CHR species failed due unsuccessful protonation of precursor vinyl complexes, but the approach did yield an unusual "Fe(II) alkylidene" that was shown to be a delocalized vinyl complex.



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