Synthesis of iridium complexes containing both hydride and functionalized triazolylidene ligands

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Iridium complexes with functionalized triazolylidene ligands have shown attractive performance in catalyzing oxidation reactions such as water oxidation and in mediating C-H bond activation.^{1,2} On the other hand, hydride systems are considered to be the key species for enhancing such bond activation.

Here we will discuss the synthetic aspects of a new family of iridium(III) complexes containing both a hydride and a mesoionic carbene ligand as potential catalyst precursors for application in bond activation catalysis.



R = COOH, OH, OR

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