Cooperative (De)hydrogenation Catalysis

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Metal-ligand cooperation has been proven to be a powerful concept for the development of highly active catalysts for reactions involving hydrogen. Using a tridentate pincer-type scaffold we are aiming to develop ligands with potentially new cooperative sites and unusual donor properties. In particular, the presence and mode of action of those cooperative ligand sites has been shown to be crucial for high activity of catalysts. In the current presentation different possibilities of metal ligand cooperation will be discussed for the development of iron-based catalysts, which are inexpensive, abundant and environmentally benign substitutes for noble metal catalysts.

Literature:


