

Poster Presentation

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Non-innocent pi-acidic electron-traps in metal mediated organic transformation

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Ligands containing oxime function in addition to azo and/or pyridyl moieties can act as a typical pi-acidic molecules. They have been found to possess low-lying vacant π^* MO, delocalized primarily over azo along with substantial contribution of pyridyl/oxime moieties. Upon coordination, they behave as redox non-innocent and are able to trap electron/s in the ligand framework. This property has been exploited in the synthesis of stable coordinated azoimine radical from the azoimine closed shell precursor via PCET reaction.¹

1. Ganguly, S. (2016) Inorg. Chem. 55, 1461

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