

Synthesis and Application of Fused *N*-Heterocycles in Pd and Cu catalysis

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N-Heterocyclic compounds are ubiquitous in biochemistry, material chemistry and synthetic organic chemistry. They have provided important bioactivities as well as unique functional properties. Some OLED materials for electron comprise *N*-heterocycles. And transport quaternary *N*-heterocyclic easily transformed salts can be to *N*-heterocyclic carbenes (NHCs), which are used as catalysts in organocatalysis and ligands in transition metal catalysis. They are also available in the name of ionic liquids for the broad applications because of high solvating power, thermal and chemical stabilities, high conducting properties, and low Recognizing the importance vapor pressure. of N-heterocycles, our research interest led us to develop a mild and efficient synthesis of N-heterocycles and apply them in catalysis. In this presentation, successful development of NHC ligands 6-membered chiral derived from imidazo[1,2-c]quinazoline will be briefly introduced for Cu-catalyzed asymmetric reactions. Then, direct synthesis and functionalization of various fused *N*-heterocycles and their application in the formation of abnormal NHC-metal complexes will be discussed.

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