



Copper-Catalyzed Electrophilic Amination of sp^2 and sp^3 C-H Bonds (Springer Theses)

Stacey L. McDonald

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This thesis reports the latest developments in the direct amination of various C–H bonds using an H–Zn exchange/electrophilic amination strategy. McDonald and co-workers reveal this approach to be a rapid and powerful method for accessing a variety of functionalized amines.

The material outlined in this book shows how McDonald achieved C–H zincation using strong, non-nucleophilic zinc bases and subsequent electrophilic amination of the corresponding zinc carbanions with copper as a catalyst and O-benzoylhydroxylamines as the electrophilic nitrogen source.

McDonald's findings are of relevance to medicinal chemistry, drug discovery and materials science. Her thesis is a source of inspiration for scientists entering the field and students beginning their PhD in a related area.

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