

Catalytic Method for Direct Intermolecular C-H to C-N Bond Transformation

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Most routes for nitrogen incorporation into organic molecules require the installation of a C-O bond, which is then converted to the desired C-N bond through functional group interconversions. Alternatively, direct C-H to C-N bond forming technology has allowed for the efficient synthesis of nitrogen-containing compounds without this additional step. Current methodology for allylic C-H amination, as well as recent progress in our own group will be discussed in the context of small molecule synthesis.