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DISCOVERY OF NEW SYNTHETIC REACTIVITIES OF THE ENAMINE CHEMISTRY

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Enamines and their derivatives are useful synthetic building blocks since they can function as stable enolates to react with a wide variety of electrophiles under neutral conditions. Furthermore, they can also function as latent amino groups since they can easily be obtained via reduction of the unsaturated double bond. Therefore, it has attracted widely attention to employing enamines as synthons in organic transformations in past decades. In our group, we are focused on discovering new synthetic

reactivities of the enamine chemistry. Recently, we developed efficient methods for regioselective C-H bond functionalization of the enamines and constructed new C-S, C-O and C-C bonds. These obtained results offer the potential applications in complex molecule synthesis and better understanding of reactivities of the enamines.

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