Special Issue

Amide Bond Activation

Message from the Guest Editor

The amide bond represents a privileged motif in chemistry. Recent years have witnessed an explosion of interest in the development of new chemical transformations of amides. An important trend involves chemoselective activation of the N–C amide bond by metal insertion. This thriving class of reactions originates from the classic studies on amide bond destabilization and has a potential to become widely applicable cross-coupling platform. More generally, N–C bond activation emphasizes the significance of ubiquitous amide bonds to participate in a wide range of electrophilic, Lewis acid, radical, and nucleophilic reaction pathways, among other transformations. These methods are beneficial to chemists because they supply valuable compounds by functional group interconversion or functionalization of amides on the fundamental level. Equally relevant are structural and theoretical studies that provide the basis for chemoselective manipulation of amidic resonance. This Special Issue aims to provide a broad survey of recent advances in activation of amides and address various approaches in the field.

Guest Editor

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