

Lecture 3: New directions in organoboron chemistry

Boron-containing molecules have found a preeminent role as both the endpoints of synthesis and as synthetic intermediates that allow one to tap into the enormous potential of the carbon-boron bond. Our interest in kinetically amphoteric molecules have allowed us to develop synthetically useful building blocks that contain nucleophilic carbon-boron bonds in close proximity to electrophilic centers. In this lecture, I will illuminate the origins of this area and will highlight some future directions of our work in the field of synthesis enabled by organoboron compounds.