



Houk-Jung Organic Colloquium

New Base-Promoted Reductive and Oxidative Coupling Reactions

Abstract: Base-catalyzed reactions typically accomplish redox neutral transformations, such as the addition of pronucleophiles to electrophiles. Our group is developing mechanistic platforms for base-promoted reductive and oxidative coupling reactions to expand the capabilities of basic chemistry. This talk will discuss the development and synthetic potential of these processes in the context of two methodologies. This includes the reductive defluorinative coupling of trifluoromethylarenes with electrophiles and the oxidative coupling of arenes with nucleophiles. Mechanistic studies will also be included to highlight the generality and future applications of these new base-promoted processes.

Jeff Bandar, Assistant Professor
Department of Chemistry
Colorado State University

Thursday, February 3, 2022
4:00 PM | CS 24
& via Zoom