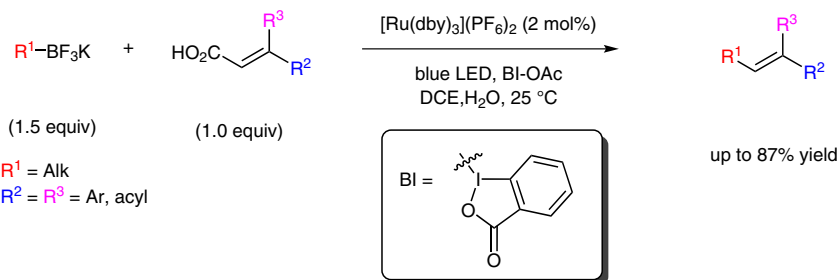


H. HUANG, K. JIA, Y. CHEN* (SHANGHAI INSTITUTE OF ORGANIC CHEMISTRY,
P. R. OF CHINA)

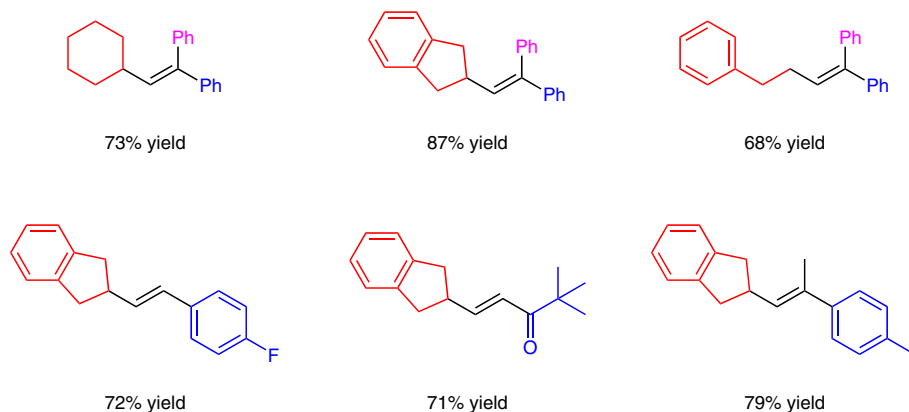
Hypervalent Iodine Reagents Enable Chemoselective Deboronative/Decarboxylative Alkenylation by Photoredox Catalysis

Angew. Chem. Int. Ed. **2015**, *54*, 1881–1884.

Chemoselective Deboronative/ Decarboxylative Alkenylation



Selected examples:



Significance: Chen and co-workers describe a visible light induced deboronative/decarboxylative alkenylation under natural aqueous reaction conditions involving a hypervalent iodine enabled alkyl-alkene coupling leading to alkyl-substituted alkenes having sensitive functional groups in good yields.

Comment: When compared to other commonly used reactions (e.g., Heck-type) this coupling reaction shows excellent chemoselectivity under very mild reaction conditions (aqueous conditions and room temperature), which suggests future applications in the synthesis of biologically active molecules.