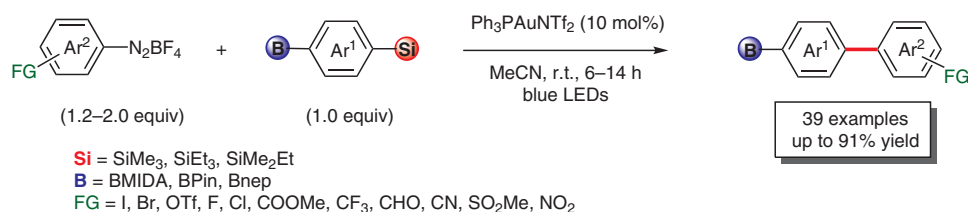


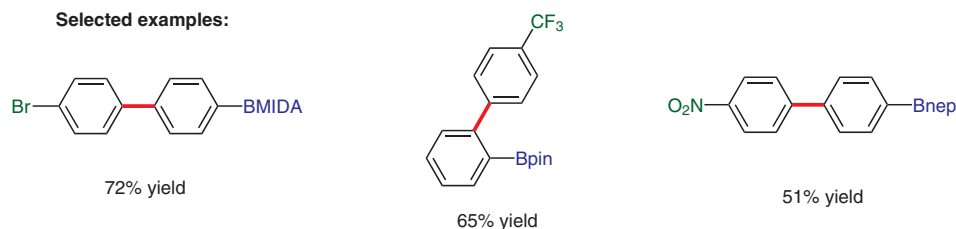
J. XIE*, K. SEKINE, S. WITZEL, P. KRÄMER, M. RUDOLPH, F. ROMINGER, A. S. K. HASHMI* (NANJING UNIVERSITY, P. R. OF CHINA AND RUPRECHT-KARLS-UNIVERSITÄT HEIDELBERG, GERMANY)

Light-Induced Gold-Catalyzed Hiyama Arylation: A Coupling Access to Biarylboronates
Angew. Chem. Int. Ed. **2018**, *57*, 16648–16653.

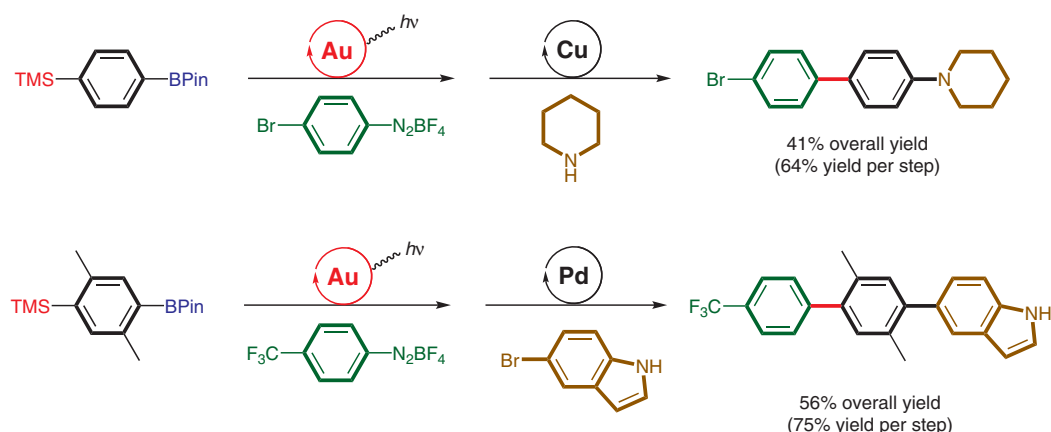
Photochemical Gold-Catalyzed Arylations



Selected examples:



One-pot iterative couplings:



Significance: Xie, Hashmi, and co-workers developed a photochemical gold-catalyzed Hiyama arylation of boron, silicon bimetallic reagents with diazonium salts. With this method a wide range of functionalized biarylboronates were obtained in high yields.

Comment: Interestingly, the combination of this methodology with copper or palladium catalysis allows a one-pot iterative C–C and C–X coupling, providing complex molecules from several simple precursors.