

Publication 65: A Photoredox Coupling of Benzylic Boronic Esters and Carbonyl Compounds in Flow



Efficient cross-coupling of benzylic organoboron reagents with carbonyl compounds under flow-through photoredox conditions has been demonstrated and shown to exhibit wide functional group tolerance.

Preliminary results also show the reactions could be scaled using more powerful flow photoreactors such as the PhotoSyn coupled to computer-controlled flow chemistry devices.

An Asynt Flow-UV UV/Vis spectrometer was used in-line to monitor steady state.

[Y. Chen, O. May, D. C. Blakemore and S. V. Ley, Org. Lett. 2019, 21, 6140-6144](#)