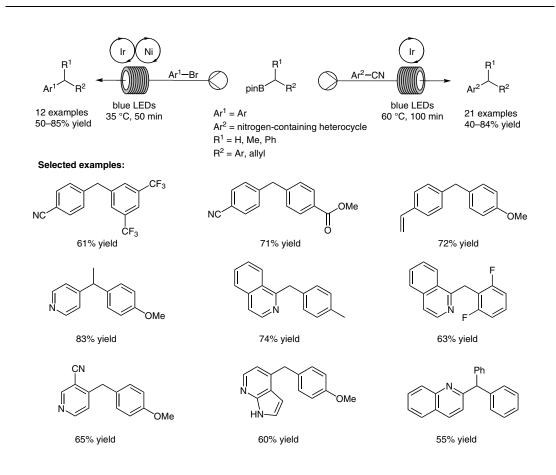
F. LIMA, M. A. KABESHOV, D. N. TRAN, C. BATTILOCCHIO, J. SEDELMEIER, G. SEDELMEIER, B. SCHENKEL, S. V. LEY* (UNIVERSITY OF CAMBRIDGE, UK AND NOVARTIS PHARMA AG, SWITZERLAND)

Visible Light Activation of Boronic Esters Enables Efficient Photoredox C(sp²)–C(sp³) Cross-Couplings in Flow *Angew. Chem. Int. Ed.* **2016**, *55*, 14085–14089.

Photoredox C(sp²)–C(sp³) Cross-Couplings in Flow



Significance: The authors report an efficient and high-throughput continuous flow process employing a new method for the photoredox activation of boronic esters.

Comment: No additive other than the photoredox catalyst is required for the coupling of the heteroaromatic nitriles and pinacol boronic esters because the nitrogen-containing heterocycle serves as the activator for the boronic ester.

Category

Metal-Mediated Synthesis

Key words

photoredox crosscoupling

boronic esters

flow chemistry



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