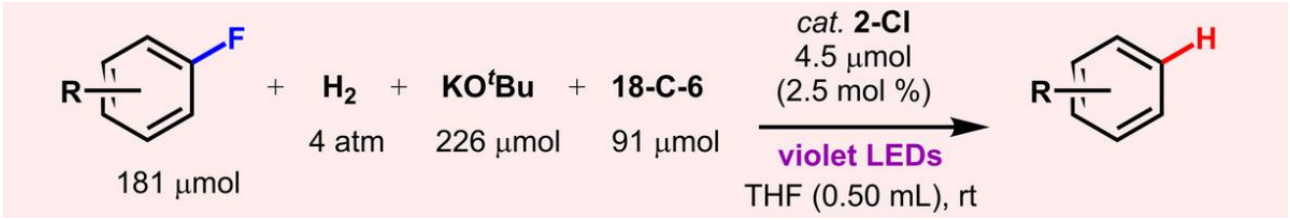
Angewandte Chemie International Edition

Light-Driven Hydrodefluorination of Electron-Rich Aryl Fluorides by an Anionic Rhodium-Gallium Photoredox Catalyst

James T. Moore, Michael J. Dorantes, Zihan Pengmei, Timothy M. Schwartz, Jacob Schaffner, Samantha L. Apps, Carlo A. Gaggioli, Ujjal Das, Laura Gagliardi, David A. Blank, Connie C. Lu

Angew. Chem. Int. Ed. 2022, 61, e202205575
https://doi.org/10.1002/anie.202205575



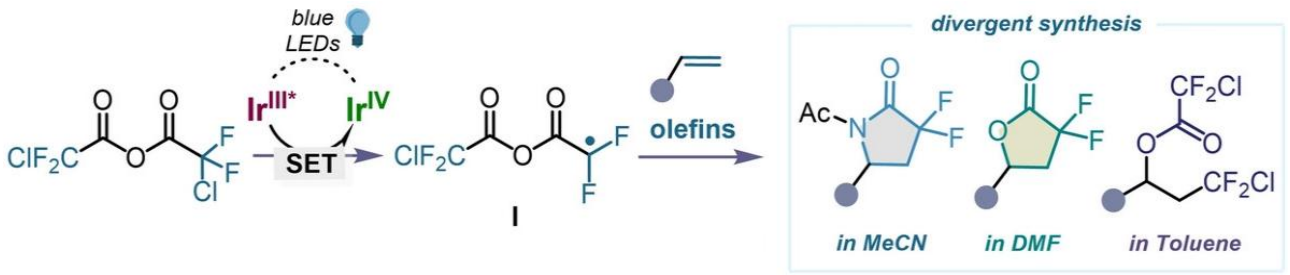
10 examples
yield up to 98%

6 examples
yield up to 100%

Photoredox Activation of Anhydrides for the Solvent-Controlled Switchable Synthesis of *gem*-Difluoro Compounds

Rahul Giri, Ivan Mosiagin, Dr. Ivan Franzoni, Nicolas Yannick Nötel, Subrata Patra, Prof. Dr. Dmitry Katayev

Angew. Chem. Int. Ed. 2022, 61, e202209143,
https://doi.org/10.1002/anie.202209143

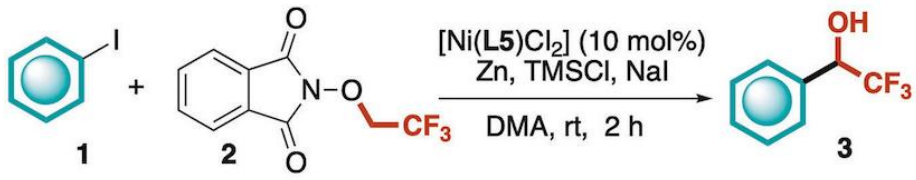


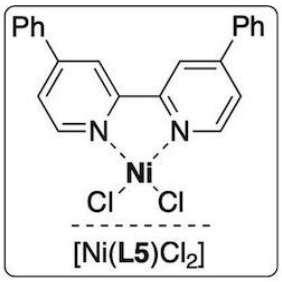
64 examples
yield up to 90%

Direct Synthesis of α-Aryl-α-Trifluoromethyl Alcohols via Nickel Catalyzed Cross-Electrophile Coupli

Lorenzo Lombardi, Dr. Alessandro Cerveri, Riccardo Giovanelli, Marta Castiñeira Reis, Prof. Carlos Silva López, Dr. Giulio Bertuzzi, Prof. Marco Bandini

Angew. Chem. Int. Ed. 2022, 61, e202211732,
https://doi.org/10.1002/anie.202211732





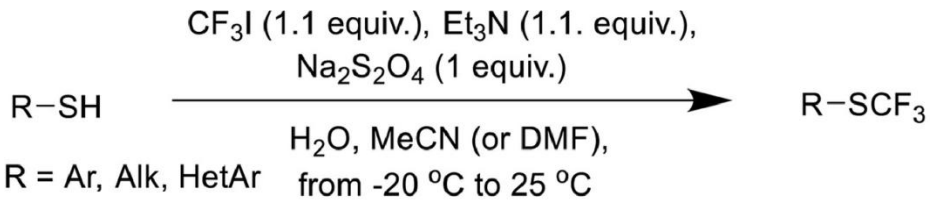
29 examples
yield up to 73%

Journal of Fluorine Chemistry

GLP (Good Laboratory Procedure) for SCF_3 construction: Useful procedure for trifluoromethylation of thiols by reaction with trifluoromethyliodide

Raisa K. Orlova, Liubov V. Sokolenko, Lesia A. Babadzhanova, Andrey A. Filatov, Yurii L. Yagupolskii

J. Fluor. Chem., 2022, 261-262, 110004
https://doi.org/10.1016/j.jfluchem.2022.110004

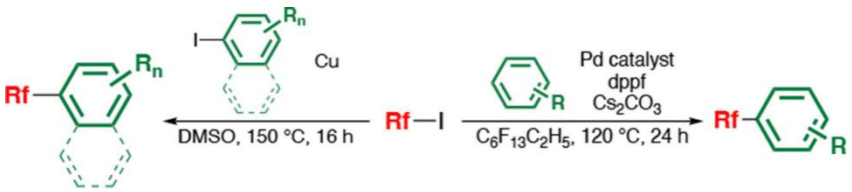


40 examples
yield up to 93%

A novel terminal modification of perfluoropolyethers

Machiko Kawazoe, Masaki Ueda, Takashi Nomura

J. Fluor. Chem., 2022, 264, 110049
https://doi.org/10.1016/j.jfluchem.2022.110049



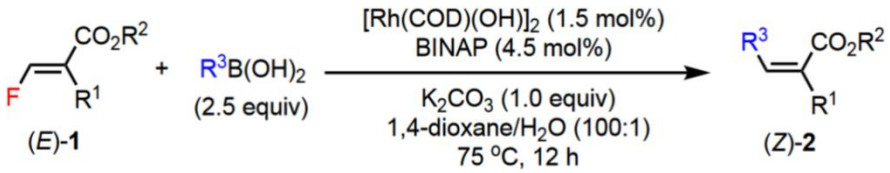
26 examples
yield up to 89%

Organic Letters

Rhodium(I)-Catalyzed Defluorinative Coupling of Boronic Acids with Monofluoroalkenes

Yuwei Zong, Yihan Tang, and Gavin Chit Tsui

Org. Lett., 2022, 24, 6380-6385
https://doi.org/10.1021/acs.orglett.2c02294

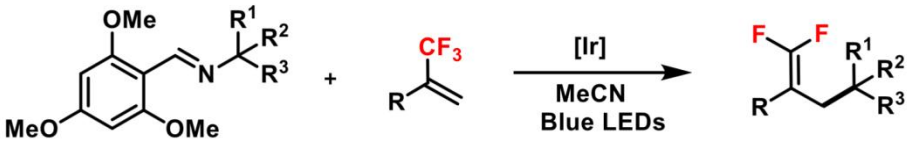


34 examples
yield up to 92%

Visible-Light-Induced C–F and C–N Bond Cleavage for the Synthesis of gem-Difluoroalkenes

Bin Wang, Cui-Tian Wang, Xue-Song Li, Xue-Yuan Liu*, and Yong-Min Liang

Org. Lett., 2022, 24, 6566-6570
https://doi.org/10.1021/acs.orglett.2c02528



43 examples
yield up to 96%