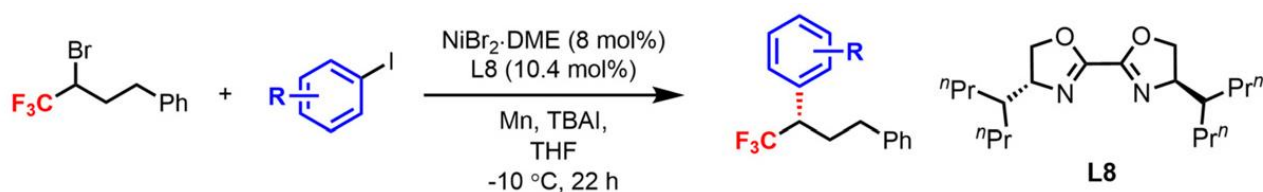


Angewandte Chemie International Edition

Diverse Synthesis of Chiral Trifluoromethylated Alkanes via Nickel-Catalyzed Asymmetric Reductive Cross-Coupling Fluoroalkylation

Yue Min, Dr. Jie Sheng, Jian-Liang Yu, Shan-Xiu Ni, Dr. Guobin Ma, Prof. Dr. Hegui Gong, Prof. Dr. Xi-Sheng Wang

Angew. Chem. Int. Ed. 2021, 60, 9947–9952



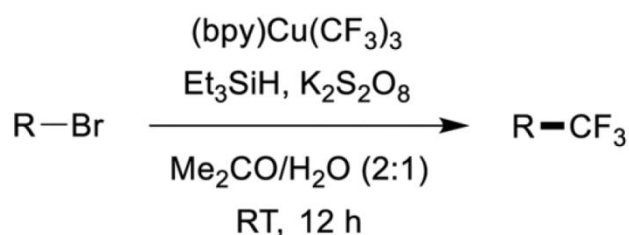
32 examples
yield up to 98%

Chemical Society Reviews

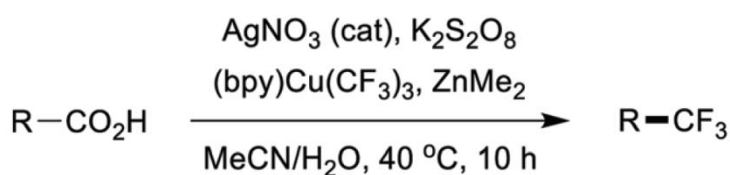
Radical trifluoromethylation

Haiwen Xiao, Zhenzhen Zhang, Yewen Fang, Lin Zhu and Chaozhong Li

Chem. Soc. Rev., 2021,50, 6308-6319



35 examples
yield up to 95%

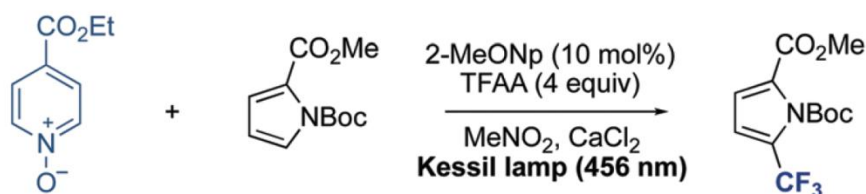


39 examples
yield up to 88%

Direct excitation strategy for radical generation in organic synthesis

Yuto Sumida and Hirohisa Ohmiya

Chem. Soc. Rev., 2021, 50, 6320-6332



Chinese Chemical Letters

Visible-light-initiated tandem synthesis of difluoromethylated oxindoles in 2-MeTHF under additive-, metal catalyst-, external photosensitizer-free and mild conditions

Qing-Wen Guia, Fan Tenga, Zhou-Chao Lia, Zhi-Yuan Xionga, Xue-Feng Jina, Ying-Wu Linb, Zhong Caoc, Wei-Min Heb,

Chin. Chem. Lett., 2021, 32, 1907–1910



26 examples
yield up to 96%

Chinese Journal of Chemistry

Deoxyfluorination of Carboxylic, Sulfonic, Phosphinic Acids and Phosphine Oxides by Perfluoroalkyl Ether Carboxylic Acids Featuring CF₂O Units

Shiyu Zhao, Yong Guo, Zhaoben Su, Chengying Wu, Wei Chen, Qing-Yun Chen

Chin. J. Chem., 2021, 39, 1225-1232

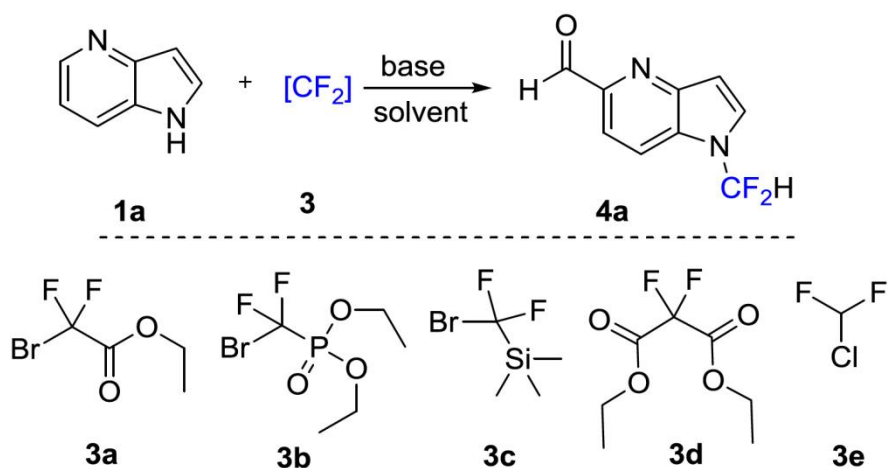


26 examples
yield up to 95%

Base-Promoted Formylation and N-Difluoromethylation of Azaindoles with Ethyl Bromodifluoroacetate as a Carbon Source

Yang Li, Ning Sun, Cai-Lin Zhang, Meng Hao

Chin. J. Chem., 2021, 39, 1477-1482

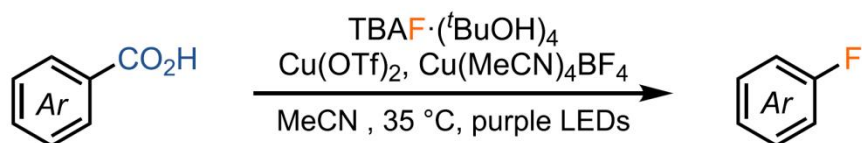


Journal of the American Chemical Society

Radical Decarboxylative Carbometalation of Benzoic Acids: A Solution to Aromatic Decarboxylative Fluorination

Peng Xu, Priscila López-Rojas, and Tobias Ritter

J. Am. Chem. Soc., 2021, 143, 5349-5354



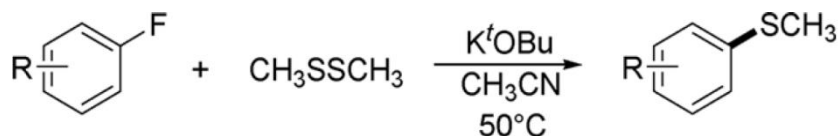
25 examples
yield up to 72%

Journal of Fluorine Chemistry

t-BuOK-promoted methylthiolation of aryl fluorides with dimethyldisulfide under transition-metal-free and mild conditions

Dayun Huang, Xiangmei Wu

J. Fluor. Chem., 2021, 245, 109778



31 examples
yield up to 93%