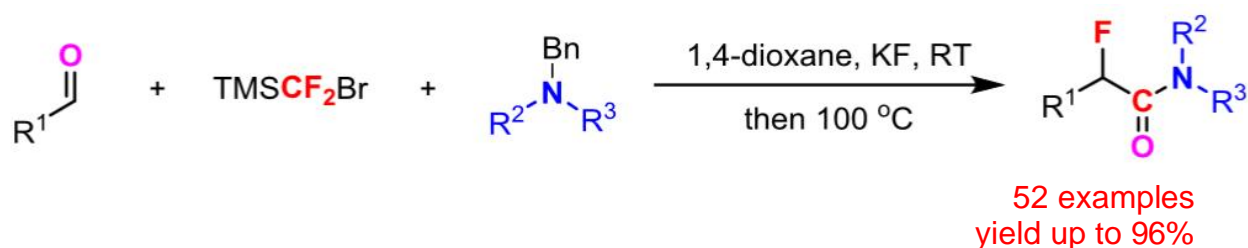


Angewandte Chemie International Edition

TMSCF₂Br-Enabled Fluorination–Aminocarbonylation of Aldehydes: Modular Access to α -Fluoroamides

An Liu, Prof. Dr. Chuanfa Ni, Dr. Qiqiang Xie, Prof. Dr. Jinbo Hu

Angew. Chem. Int. Ed. 2022, 61, e202115467

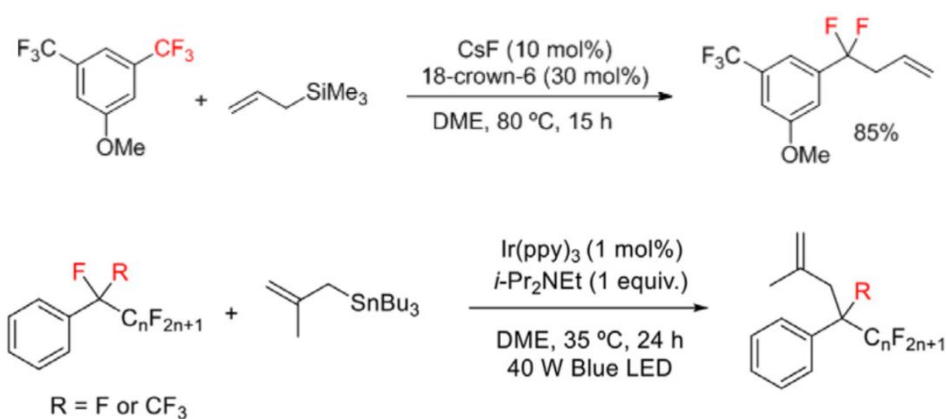


Chinese Chemical Letters

C–F bond functionalizations of trifluoromethyl groups via radical intermediates

Tesfaye Tebeka Simur, Tian Ye, You-Jie Yu, Feng-Lian Zhang, Yi-Feng Wang

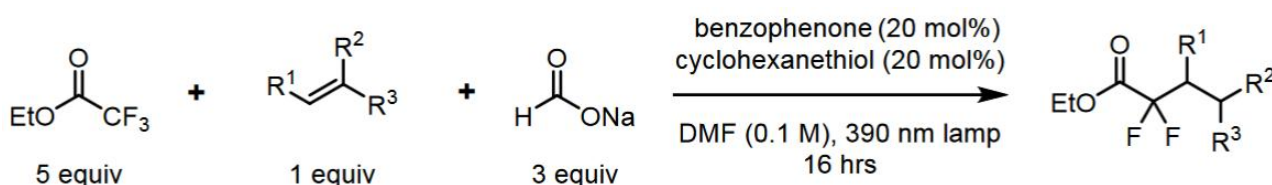
Chinese Chemical Letters, 2022, 33, 1193-1198



Photochemical C–F Activation Enables Defluorinative Alkylation of Trifluoroacetates and -Acetamides

Mark W. Campbell, Viktor C. Polites, Shivani Patel, Juliette E. Lipson, Jadab Majhi, and Gary A. Molander

J. Am. Chem. Soc., 2021, 143, 19648-19654

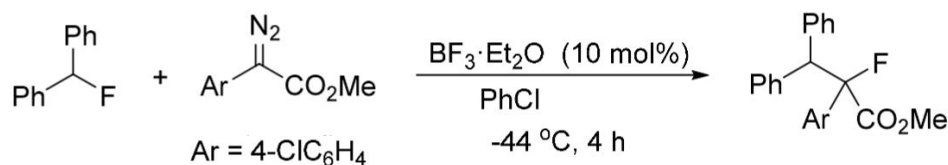


39 examples
yield up to 98%

Insertion of Diazo Esters into C–F Bonds toward Diastereoselective One-Carbon Elongation of Benzylic Fluorides: Unprecedented BF_3 Catalysis with C–F Bond Cleavage and Re-formation

Fei Wang, Yoshihiro Nishimoto, and Makoto Yasuda

J. Am. Chem. Soc., 2021, 143, 20616-20621

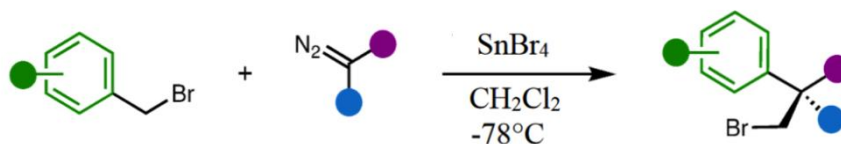


12 examples
yield up to 92%

Homologation of Electron-Rich Benzyl Bromide Derivatives via Diazo C–C Bond Insertion

Atanu Modak, Juan V. Alegre-Requena, Louis de Lescure, Kathryn J. Rynders, Robert S. Paton, and Nicholas J. Race

J. Am. Chem. Soc., 2022, 144, 86-92

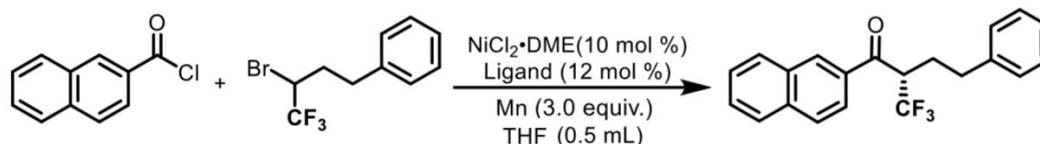


10 examples
yield up to 80%

Enantioselective Synthesis of Secondary β -Trifluoromethyl Alcohols via Catalytic Asymmetric Reductive Trifluoroalkylation and Diastereoselective Reduction

Bing-Bing Wu, Jie Xu, Kang-Jie Bian, Qian Gao, and Xi-Sheng Wang*

J. Am. Chem. Soc., 2022, 144, 6543-6550



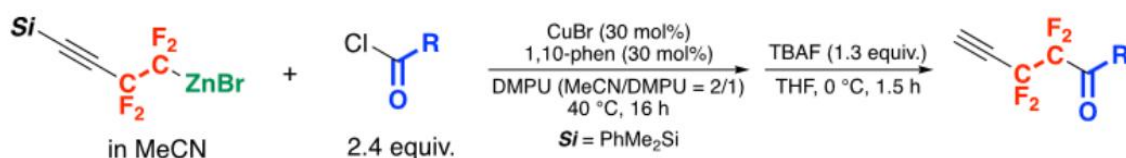
11 examples
yield up to 93%

Journal of Fluorine Chemistry

Preparation and synthetic applications of novel tetrafluoroethylenating zinc reagent with a triple bond as its functional group

Chihiro Kajimoto, Takuto Kataoka, Shota Kageyama, Haruka Ohsato, Tsutomu Konno

J. Fluor. Chem., 2022, 253, 109929



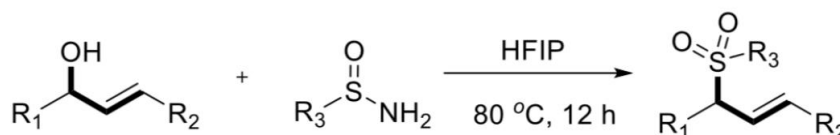
11 examples
yield up to 93%

Organic Letters

1,1,1,3,3,3-Hexafluoro-2-propanol (HFIP)-Assisted Catalyst-Free Sulfonation of Allylic Alcohols with Sulfinyl Amides

Zhen Luo, Zheng-Qiang Liu, Ting-Ting Yang, Xin Zhuang, Chuan-Ming Hong, Fei-Fei Zou, Zhi-Yong Xue, Qing-Hua Li, and Tang-Lin Liu

Org. Lett., 2022, 24, 741-745

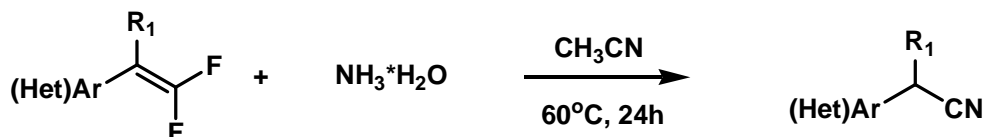


38 examples
yield up to 83%

Rapid and Simple Access to α -(Hetero)arylacetonitriles from Gem-Difluoroalkenesides

Jun-Qi Zhang, Jiayue Liu, Dandan Hu, Jinyu Song, Guorong Zhu, and Hongjun Ren

Org. Lett., 2022, 24, 786-790

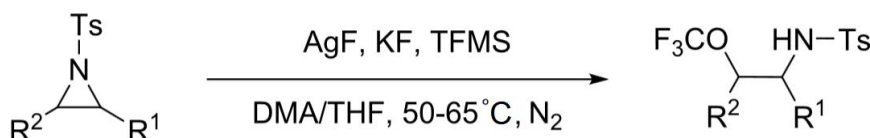


54 examples
yield up to 96%

Silver-Catalyzed Trifluoromethoxylation of Aziridines

Jingrui Xin, Xiangyu Deng, and Pingping Tang

Org. Lett., 2022, 24, 881-885

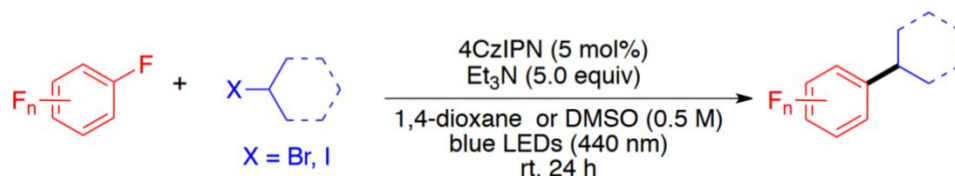


27 examples
yield up to 94%

Photoredox Polyfluoroarylation of Alkyl Halides via Halogen Atom Transfer

Ben Niu, Krishnakumar Sachidanandan, Bryan G. Blackburn, Maria Victoria Cooke, and Sébastien Laulhé

Org. Lett., 2022, 24, 916-920

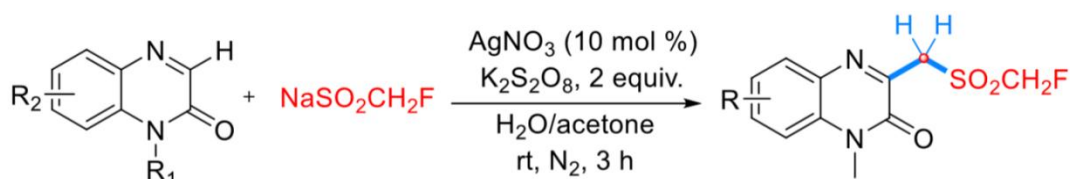


35 examples
yield up to 85%

(Fluoromethylsulfonyl)methylation of Quinoxalinones Using NaSO₂CH₂F for C–F Bond Cleavage

Peng Dai, Yufei Li, Yu Chen, Jian Jiao, Qingqing Wang, Chenxiao Li, Yucheng Gu, Yanbin Zhang, Qing Xia, and Wei-Hua Zhang

Org. Lett., 2022, 24, 1357-1361



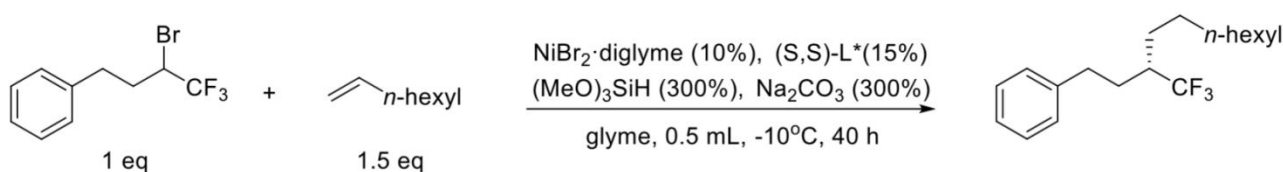
23 examples
yield up to 95%

Diverse Synthesis of Chiral Trifluoromethylated Alkanes via Nickel-Catalyzed Enantioconvergent Reductive Hydroalkylation of Unactivated Olefins

Wenqing Guo, Li Cheng, Guobin Ma, Weiqi Tong, and Fan Wu*

Org. Lett., 2022, 24, 1796-1801

Example:



50 examples
yield up to 88%