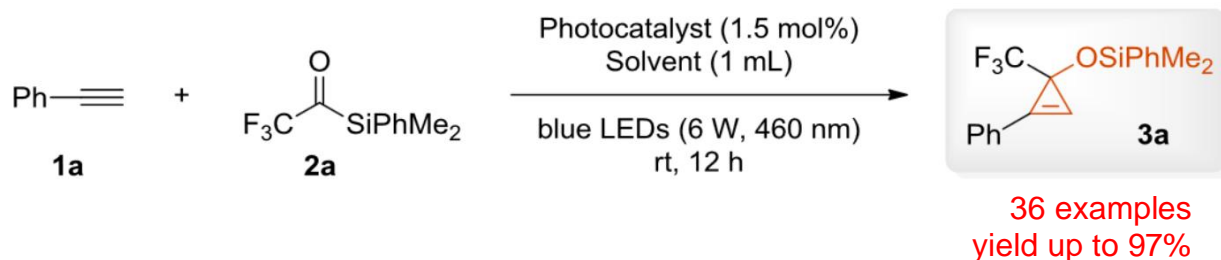


## Angewandte Chemie International Edition

### Synthesis of Cyclopropenols Enabled by Visible-Light-Induced Organocatalyzed [2+1] Cyclization

Gang Zhou, Xiao Shen

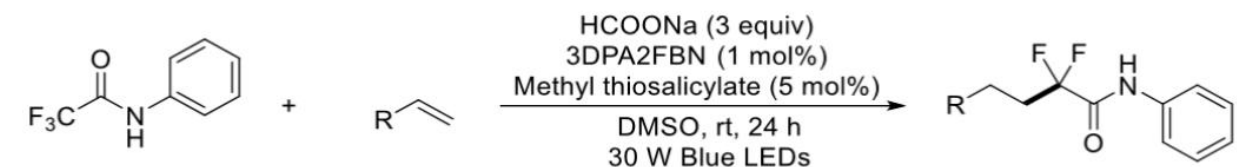
Angew. Chem. Int. Ed. 2022, 61, e202115334



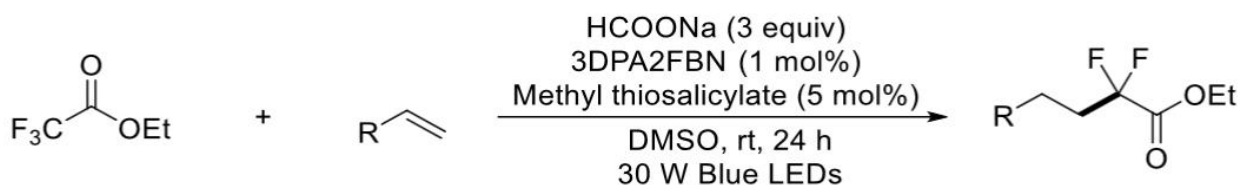
### Photoredox-Catalyzed Defluorinative Functionalizations of Polyfluorinated Aliphatic Amides and Esters

Dr. Jian-Heng Ye, Peter Bellotti, Corinna Heusel, Prof. Dr. Frank Glorius

Angew. Chem. Int. Ed. 2022, 61, e202115456



15 examples  
yield up to 95%



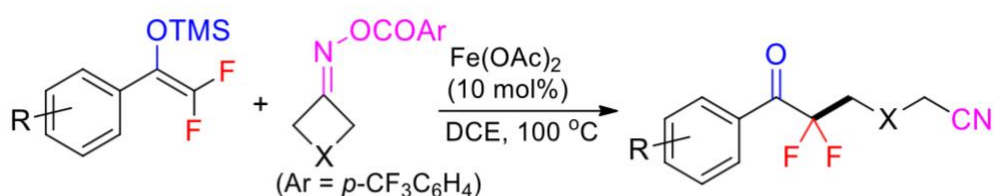
12 examples  
yield up to 90%

## Chinese Chemical Letters

### Iron-catalyzed cyanoalkylation of difluoroenol silyl ethers with cyclobutanone oxime esters

Xiaolei Zhu, Yangen Huang, Xiuhua Xu, Fengling Qing

Chinese Chemical Letters, 2022, 33, 817-820

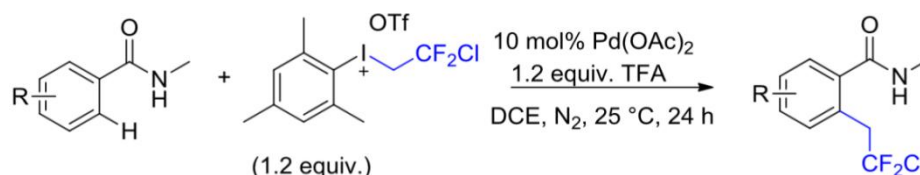


12 examples  
yield up to 89%

### The Pd-catalyzed synthesis of difluoroethyl and difluorovinyl compounds with a chlorodifluoroethyl iodonium salt (CDFI)

Yaru Niu, Chengyao Kimmy Cao, Chenxin Ge, Hongmei Qu, Chao Chen

Chinese Chemical Letters, 2022, 33, 1541-1544

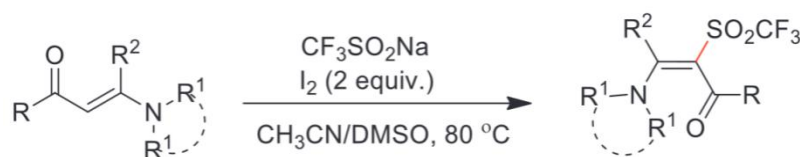


24 examples  
yield up to 84%

### Metal-free C(sp<sup>2</sup>)-H perfluoroalkylsulfonylation and configuration inversion: Stereoselective synthesis of $\alpha$ -perfluoroalkylsulfonyl E-enaminones

Qing Yu, Yunyun Liu, Jie-Ping Wan

Chinese Chemical Letters, 2021, 32, 3514-3517



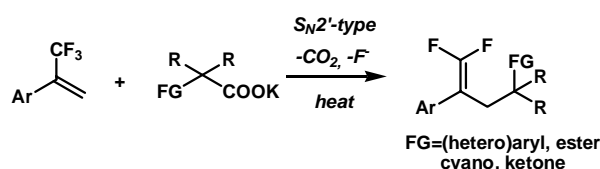
33 examples  
yield up to 83%

## Chinese Journal of Chemistry

### Efficient Decarboxylative/Defluorinative Alkylation for the Synthesis of gem-Difluoroalkenes through an S<sub>N</sub>2'-Type Route

Wei-Long Xing, Jia-Xin Wang, Ming-Chen Fu, Yao Fu

Chin. J. Chem., 2022, 40, 323-328



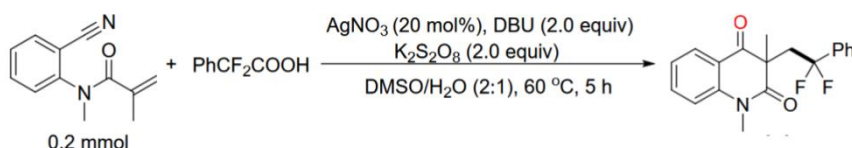
12 examples  
yield up to 89%

## Organic Chemistry Frontiers

### Silver-catalyzed decarboxylative radical relay difluoroalkylation–carbocyclization: convenient access to CF<sub>2</sub>-containing quinolinones

Feng Zhao, Sa Guo, Yan Zhang, Ting Sun, Bing Yang, Yong Yec and Kai Sun

Org. Chem. Front., 2021, 8, 6895-6900



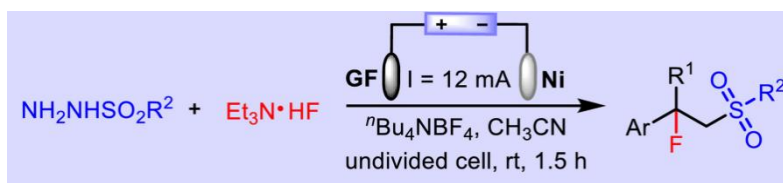
15 examples  
yield up to 82%

## Tetrahedron

### Electrochemical fluorosulfonylation of alkenes to access vicinal fluorinated sulfones derivatives

Bin Zhao, Zichen Pan, Anqiao Zhu, Yanni Yue, Mengtao Ma, Fei Xue

Tetrahedron, 2022, 106-107, 132651



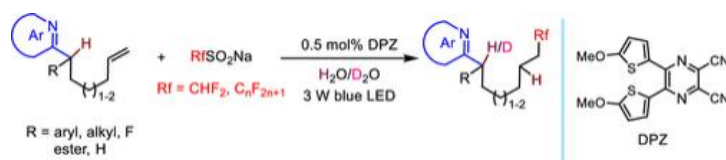
37 examples  
yield up to 95%

## Organic Letters

### Photoredox-Catalyzed Synthesis of Remote Fluoroalkylated Azaarene Derivatives and the $\alpha$ -Deuterated Analogues via 1,*n*-Hydrogen-Atom-Transfer-Involving Radical Reactions

Xiaowei Chen, Wenhui Wei, Chunyang Li, Hongwei Zhou, Baokun Qiao, and Zhiyong Jiang

Org. Lett., 2021, 23, 8744-8749

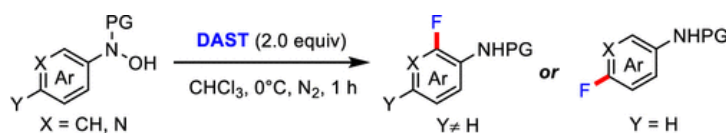


37 examples  
yield up to 98%

### Rapid Access to Fluorinated Anilides via DAST-Mediated Deoxyfluorination of Arylhydroxylamines

Zhuyong Zhang, Junfei Luo, and Hongyin Gao

Org. Lett., 2021, 23, 9332-9336

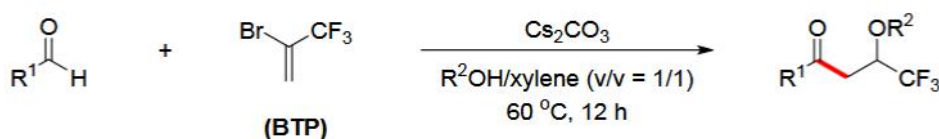


41 examples  
yield up to 84%

### $\alpha$ -Trifluoromethyl Carbanion-catalyzed Intermolecular Stetter Reaction of Aromatic Aldehydes with 2-Bromo-3,3,3-trifluoropropene: Synthesis of $\beta$ -Alkoxy- $\beta$ -trifluoromethylated Ketones

Yingying Cai, Huanfeng Jiang, and Chuanle Zhu

Org. Lett., 2022, 24, 33-37

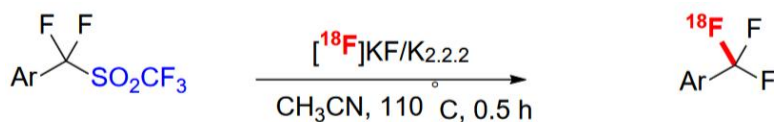


30 examples  
yield up to 91%

## Synthesis of ArCF<sub>2</sub>X and [<sup>18</sup>F]Ar-CF<sub>3</sub> via Cleavage of the Trifluoromethylsulfonyl Group

Ren-Yin Yang, Xinyan Gao, Kehao Gong, Juan Wang, Xiaojun Zeng, Mingwei Wang, Junbin Han, and Bo Xu

Org. Lett., 2022, 24, 164-168

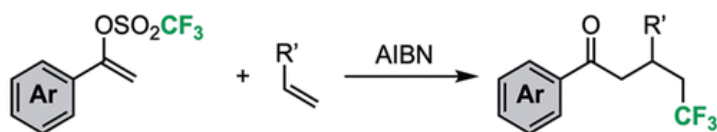


14 examples  
yield up to 93%

## Vicinal Difunctionalization of Alkenes Using Vinyl Triflates Leading to $\gamma$ -Trifluoromethylated Ketones

Takuji Kawamoto, Takahiro Kawabata, Kohki Noguchi, and Akio Kamimura

Org. Lett., 2022, 24, 324-327

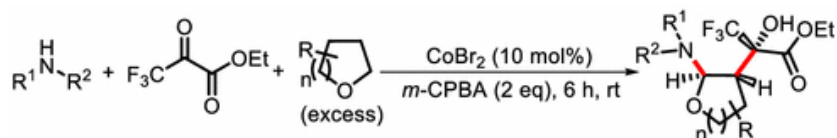


8 examples  
yield up to 76%

## Construction of Fluorinated Amino Acid Derivatives via Cobalt-Catalyzed Oxidative Difunctionalization of Cyclic Ethers

Peng Duan, He Zhao, Jian Yang, Liang Cao, Huanfeng Jiang, and Min Zhang

Org. Lett., 2022, 24, 608-612



55 examples  
yield up to 96%