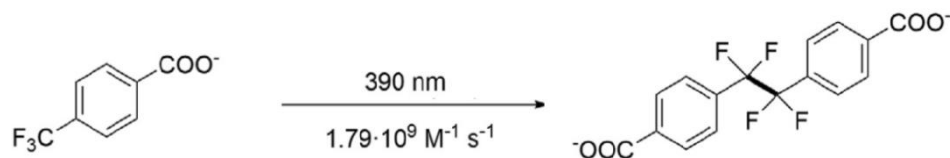


## Photophysics of Perylene Diimide Dianions and Their Application in Photoredox Catalysis

Han Li, Oliver S. Wenger

Angew. Chem. Int. Ed. 2022, 61, e202110491

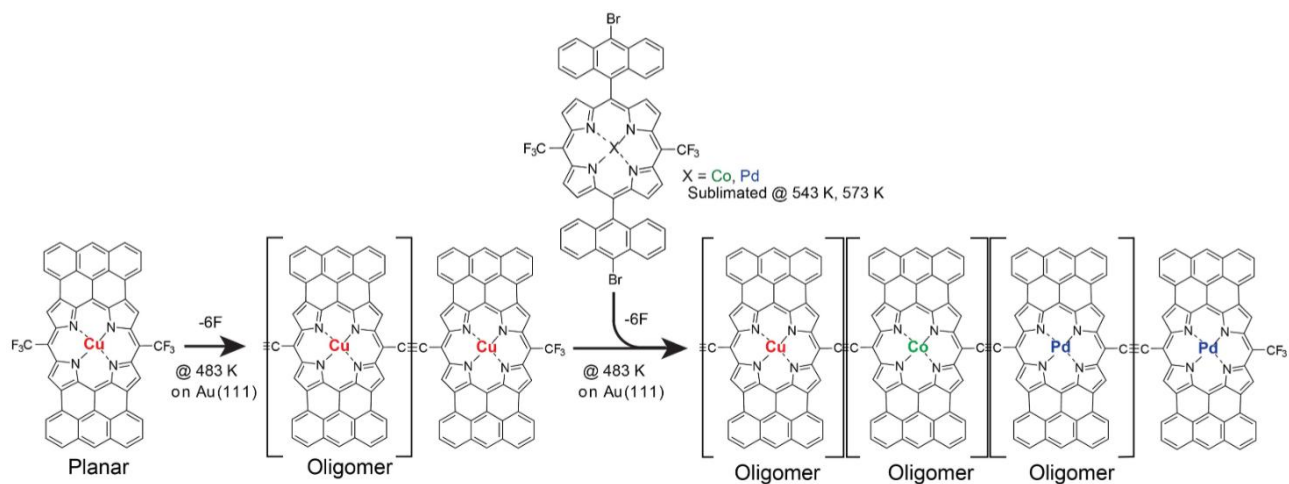


yield up to 36%

## On-Surface Synthesis of Porphyrin-Complex Multi-Block Co-Oligomers by Defluorinative Coupling

Shigeki Kawai, Atsushi Ishikawa, Shin-ichiro Ishida, Takuya Yamakado, Yujing Ma, Kewei Sun, Yoshitaka Tateyama, Rémy Pawlak, Ernst Meyer, Shohei Saito, Atsuhiko Osuka

Angew. Chem. Int. Ed. 2022, 61, e202114697

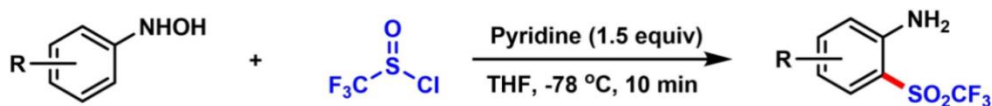


28 examples  
yield up to 85%

## Expeditious and Efficient ortho-Selective Trifluoromethane-sulfonylation of Arylhydroxylamines

Yue Liu, Songlin Bai, Yuanbo Du, Xiangbing Qi, Hongyin Gao

Angew. Chem. Int. Ed. 2021, 60, e202115611



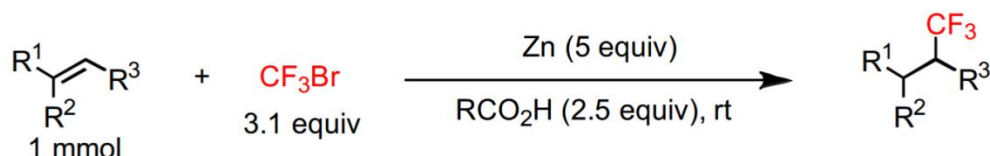
37 examples  
yield up to 72%

## Organic Chemistry Frontiers

### Zinc–Brønsted acid mediated practical hydrotrifluoromethylation of alkenes with CF<sub>3</sub>Br

Deqian Peng, Wu Fan, Xueqi Zhao, Wei Chen, Yuan Wen, Li Zhang and Suhua Li

Org. Chem. Front., 2021, 8, 6356-6363

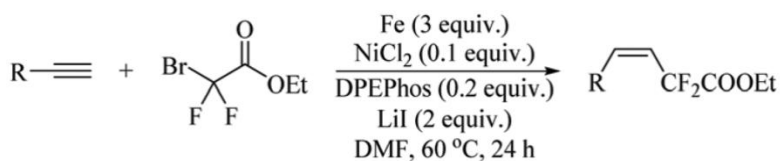


58 examples  
yield up to 96%

### Stereoselective synthesis of fluoroalkylated (Z)-alkene via nickel-catalyzed and iron-mediated hydrofluoroalkylation of alkynes

Xiang-Rui Li, Wen-Xin Li, Zhuo-Wen Zhang, Chuanji Shen, Xiacong Zhou, Xue-Qiang Chu, Weidong Rao and Zhi-Liang Shen

Org. Chem. Front., 2021, 8, 6356-6363



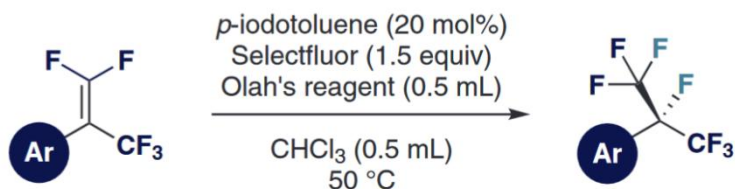
8 examples  
yield up to 84%

## Synthesis

### An I(I)/I(III) Catalysis Route to the Heptafluoroisopropyl Group: A Privileged Module in Contemporary Agrochemistry

Martín-Heras, Víctor; Daniliuc, Constantin G.; Gilmour, Ryan

Chem. Rev., 2021, 121, 1670-1715



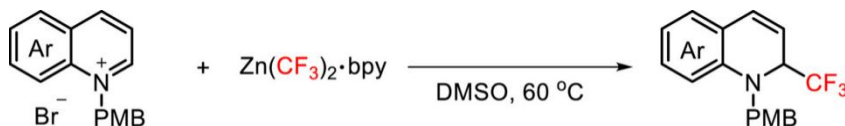
11 examples  
yield up to 91%

## Tetrahedron

### Nucleophilic trifluoromethylation of azinium salts with $\text{Zn}(\text{CF}_3)_2 \cdot \text{bpy}$

Shitao Pan, Xiu Wang, Chuanfa Ni, Jinbo Hu

Tetrahedron, 2021, 100, 132477

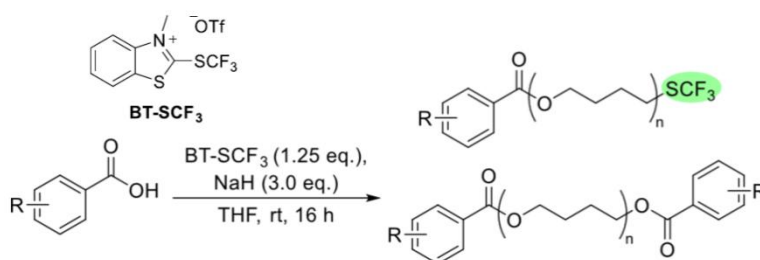


9 examples  
yield up to 59%

### Activation of tetrahydrofuran with 2-((Fluoroalkyl)thio)Benzothiazolium reagents

Lilian M. Maas, Jonas R. Schmid, Carlo Fasting, Patrick Voßnacker, Andreas Mavroskoufis, Matthew N. Hopkinson

Tetrahedron, 2021, 101, 132512



5 examples  
yield up to 43%