

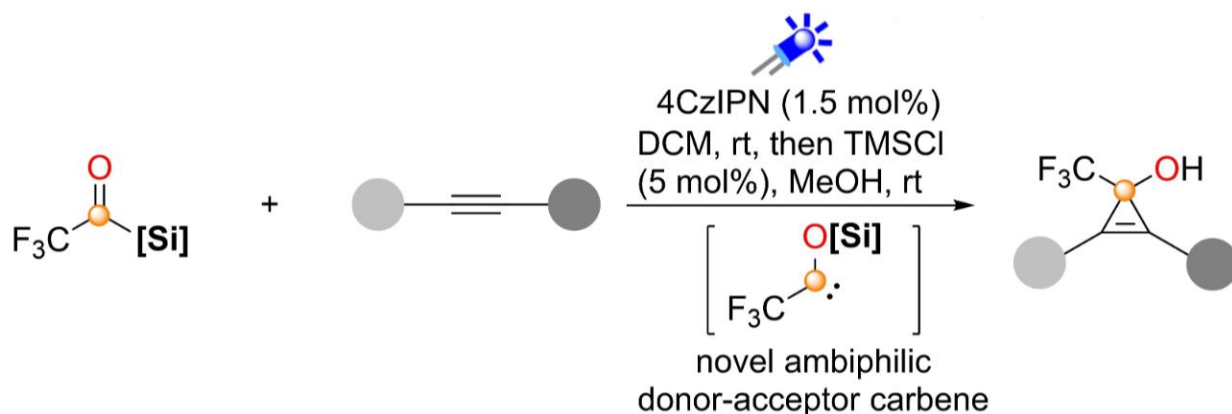
Angewandte Chemie International Edition

Electron-Rich Oxycarbenes: New Synthetic and Catalytic Applications beyond Group 6 Fischer Carbene Complexes

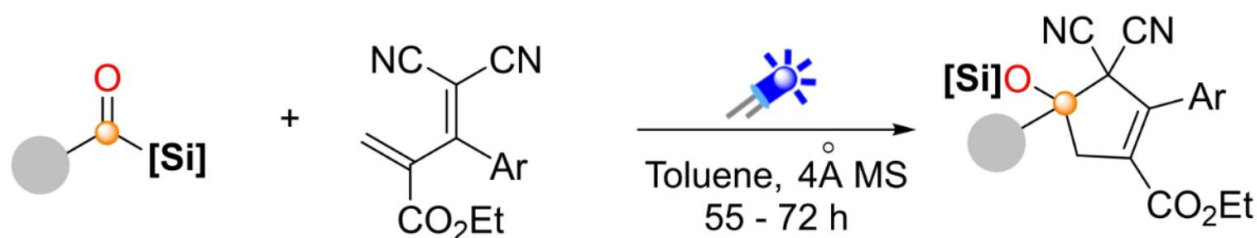
Gang Zhou, Zhuanzhuan Guo, Prof. Dr. Xiao Shen

Angew. Chem. Int. Ed. 2023, 62, e202217189

<https://doi.org/10.1002/anie.202217189>



4 examples
yield up to 94%

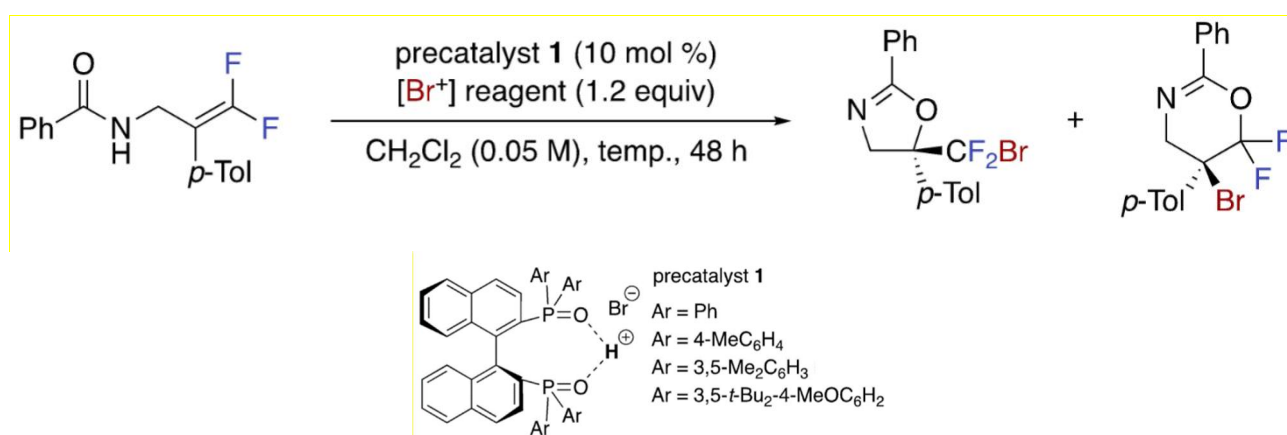


4 examples
yield up to 99%

Enantioselective Synthesis of Bromodifluoromethyl-containing Oxazolines by Concerted Lewis/Brønsted Base Catalysis with Chiral Bisphosphine Oxide

Ryo Hirokawa, Yuki Nakahara, Shotaro Uchida, Dr. Kenji Yamashita, Prof. Dr. Yoshitaka Hamashima

Chem. Asian J. 2023, 62, 18, e202300141
<https://doi.org/10.1002/asia.202300141>



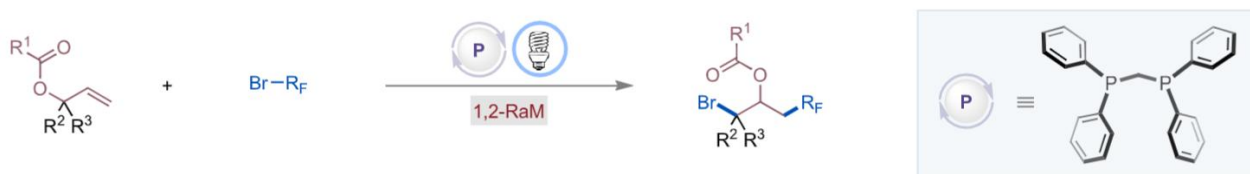
19 examples
yield up to 98%

Journal of the American Chemical Society

Expanding Reaction Profile of Allyl Carboxylates via 1,2-Radical Migration (RaM): Visible-Light-Induced Phosphine-Catalyzed 1,3-Carbobromination of Allyl Carboxylates

Gaoyuan Zhao, Sanghyun Lim, Djamaladdin G. Musaev, and Ming-Yu Ngai

J. Am. Chem. Soc. 2023, 145, 15, 8275–8284
<https://doi.org/10.1021/jacs.2c11867>

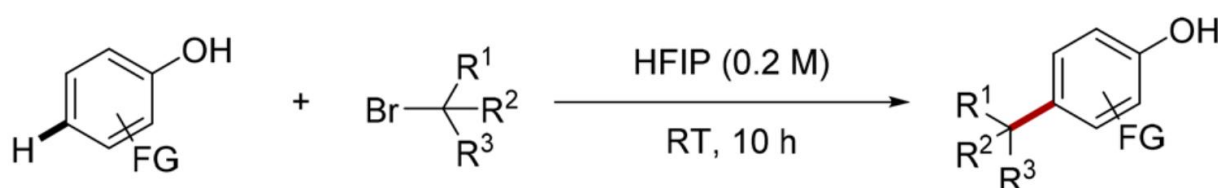


42 examples
yield up to 88%

HFIP-promoted para-selective alkylation of anilines and phenols with tertiary alkyl bromides

Pengcheng Huang, Xipeng Jiang, Du Gao, Cheng Wang, Da-Qing Shi and Yingsheng Zhao

Org. Chem. Front., 2023, 10, 2476
<https://doi.org/10.1039/d3qo00342f>



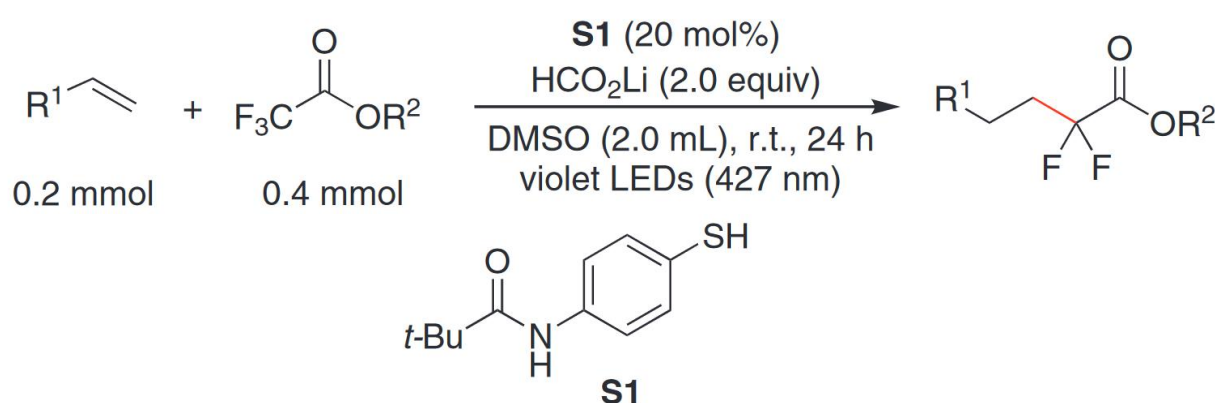
15 examples
yield up to 96%

Synthesis

Photocatalytic Defluoroalkylation of Trifluoroacetates with Alkenes using 4-(Acetamido)thiophenol

Can Liu, Ni Shen, Rui Shang

Synthesis 2023, 55, 1401–1409
<https://doi.org/10.1055/a-2019-1532>



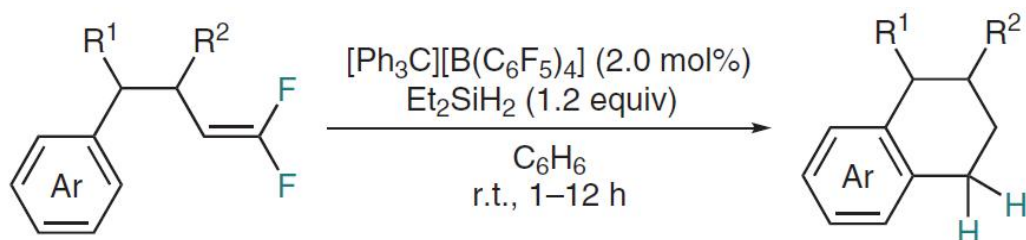
25 examples
yield up to 93%

Silylium Ion Initiated Intramolecular Friedel–Crafts-Type Cyclization of 1,1-Difluoroalkenes with Subsequent Hydrodefluorination of C(sp³)–F Bonds

Avijit Roy, Haopeng Gao, Hendrik F. T. Klare, Martin Oestreich

Synthesis, 2023, 55, 1602–1612

<https://doi.org/10.1055/a-2009-8114>



12 examples
yield up to 99%