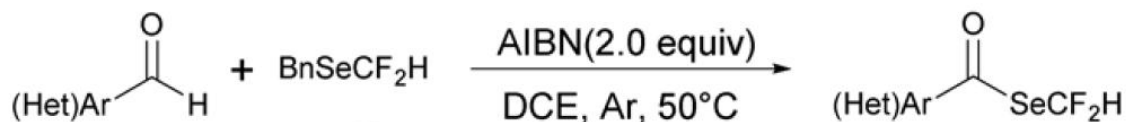


Chemical Communications

Synthesis of difluoromethylselenoesters from aldehydes *via* a radical process

Rui-Li Guo, Xue-Qing Zhu, Xing-Long Zhang and Yong-Qiang Wang

Chem. Commun., 2020,56, 8976-8979

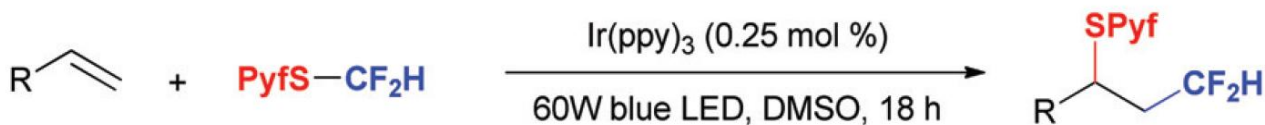


9 examples
yield up to 90%

Fluoroalkyl sulfides as photoredox-active coupling reagents for alkene difunctionalization

Mikhail D. Kosobokov, Mikhail O. Zubkov, Vitalij V. Levin, Vladimir A. Kokorekin and Alexander D. Dilman

Chem. Commun., 2020,56, 9453-9456



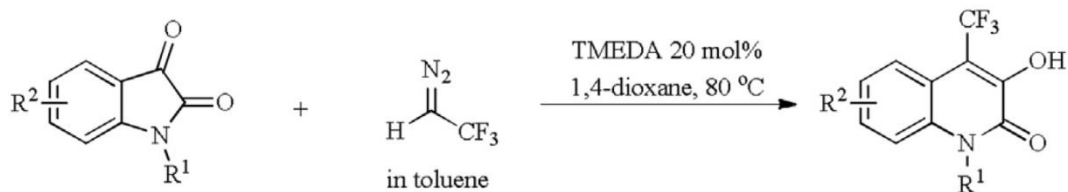
22 examples
yield up to 80%

Chinese Chemical Letters

Lewis base catalyzed ring-expansion of isatin with 2,2,2-trifluorodiazooethane (CF_3CHN_2): An efficient route to 3-hydroxy-4-(trifluoromethyl)quinolinones

Shuaipeng Lv, Yunfang Sun, Yue Xu, Shihai Yang, Lei Wang

Chinese Chem. Lett., 2020, 31, 1568-1571



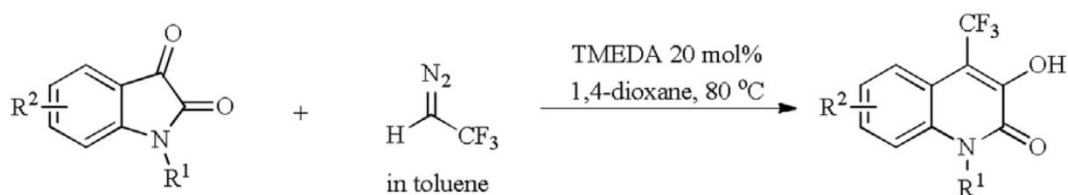
18 examples
yield up to 88%

Chinese Journal of Chemistry

Synthesis and Properties of $\text{CF}_3(\text{OCF}_3)\text{CH}$ -Substituted Arenes and Alkenes

Wen-Qi Xu, Xiu-Hua Xu, Feng-Ling Qing

Chin. J. Chem., 2020, 38, 847-854

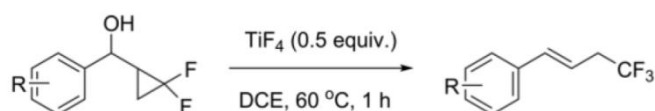


3 examples
yield up to 56%

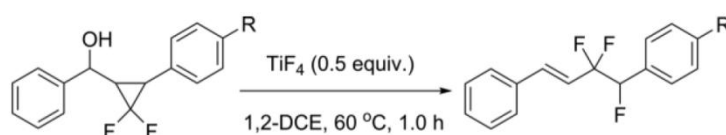
Dehydrative Ring-Opening of gem-Difluorocyclopropyl Carbinols to Allylic Trifluoromethyl and Difluorohalomethyl Derivatives Promoted by Titanium Tetrahalide

Manickavasakam Ramasamy, Prof. Sheng-Chu Kuo, Min-Tsang Hsieh

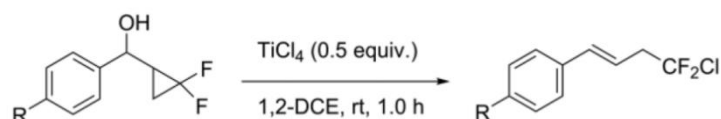
Eur. J. Org. Chem., 2020, 5207-5210



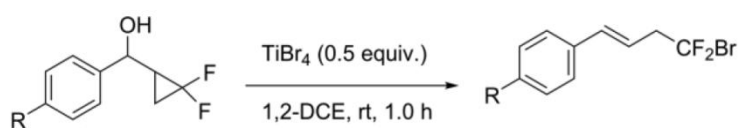
11 examples
yield up to 80%



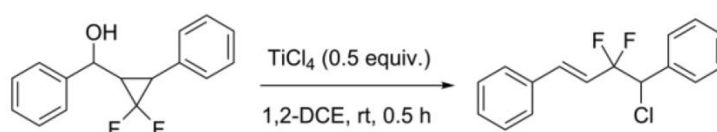
2 examples
yield up to 66%



4 examples
yield up to 83%



2 examples
yield up to 76%



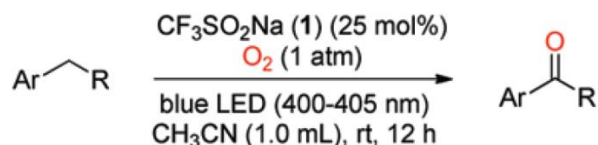
1 example
yield 66%

Green Chemistry

Light and oxygen-enabled sodium trifluoromethanesulfinate-mediated selective oxidation of C–H bonds

Xianjin Zhu, Yong Liu, Can Liu, Haijun Yang and Hua Fu

Green Chem., 2020,22, 4357-4363



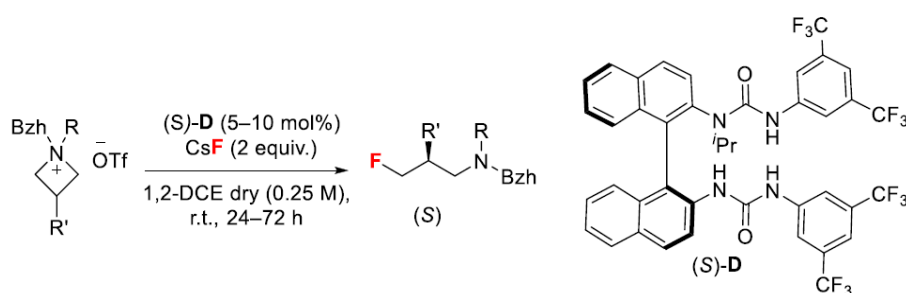
29 examples
yield up to 100%

Journal of the American Chemical Society

Hydrogen Bonding Phase-Transfer Catalysis with Ionic Reactants: Enantioselective Synthesis of γ -Fluoroamines

Giulia Roagna, David M. H. Ascough, Francesco Ibba, Anna Chiara Vicini, Alberto Fontana, Kirsten E. Christensen, Aldo Pesciulli, Daniel Oehlich, Antonio Misale, Andrés A. Trabanco, Robert S. Paton, Gabriele Pupo, and Véronique Gouverneur

J. Am. Chem. Soc., 2020, 142, 14045-14051



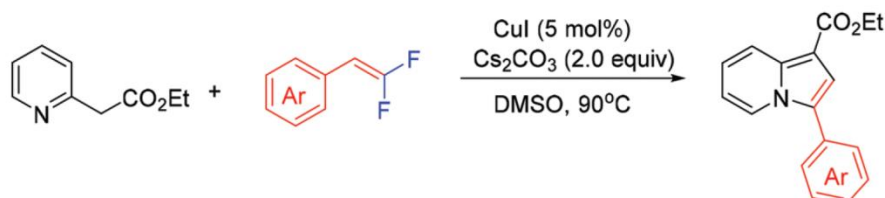
33 examples
yield up to 98%

Organic Chemistry Frontiers

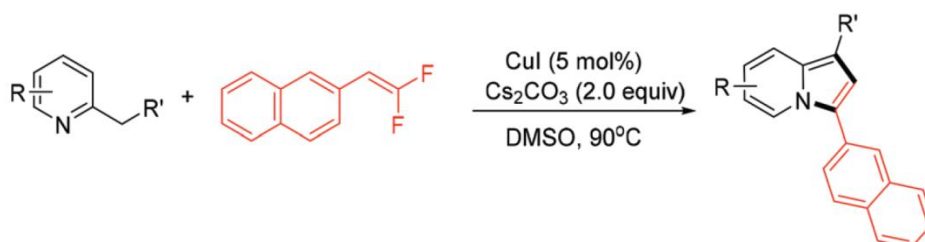
Indolizine synthesis via copper-catalyzed cyclization of gem-difluoroalkenes and 2-(pyridin-2-yl)acetate derivatives

Chuan-Jun Lu, Xin Yu, Yu-Ting Chen, Qing-Bao Song and Hong Wang

Org. Chem. Front., 2020, 7, 2313-2318



17 examples
yield up to 87%



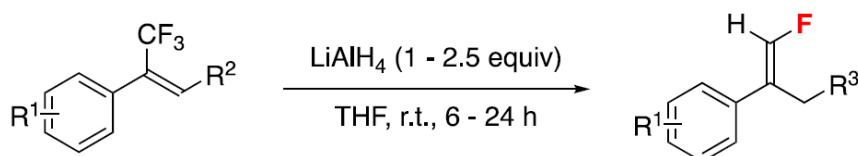
3 examples
yield up to 50%

Organic Letters

Stereoselective Synthesis of Terminal Monofluoroalkenes from Trifluoromethylated Alkenes

Pauline Poutrel, Xavier Pannecoucke, Philippe Jubault, and Thomas Poisson

Org. Lett., 2020, 22, 12, 4858-4863

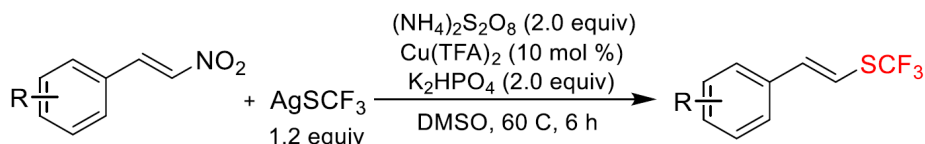


37 examples
yield up to 87%

Geometrically Selective Denitrative Trifluoromethylthiolation of β -Nitrostyrenes with AgSCF_3 for (E)-Vinyl Trifluoromethyl Thioethers

Changge Zheng, Shuai Huang, Yang Liu, Chao Jiang, Wei Zhang, Ge Fang, and Jianquan Hong

Org. Lett., 2020, 22, 12, 4868-4872

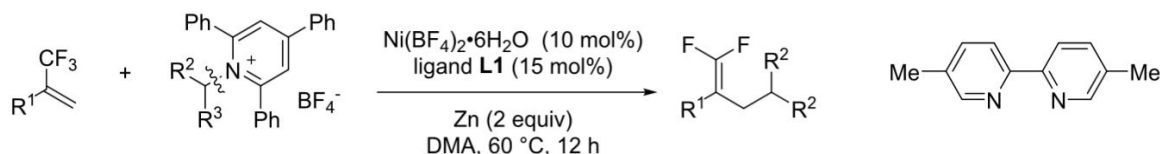


24 examples
yield up to 99%

Merger of C–F and C–N Bond Cleavage in Cross-Electrophile Coupling for the Synthesis of gem-Difluoroalkenes

Youxiang Jin, Jiaoyang Wu, Zhiyang Lin, Yun Lan, and Chuan Wang

Org. Lett., 2020, 22, 14, 5347-5352

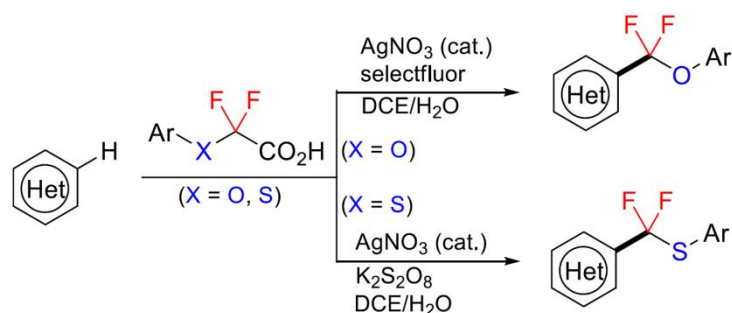


25 examples
yield up to 94%

Silver-Catalyzed C–H Aryloxydifluoromethylation and Arylthiodifluoromethylation of Heteroarenes

Xiao-Lei Zhu, Yangen Huang, Xiu-Hua Xu, and Feng-Ling Qing

Org. Lett., 2020, 22, 14, 5451-5455

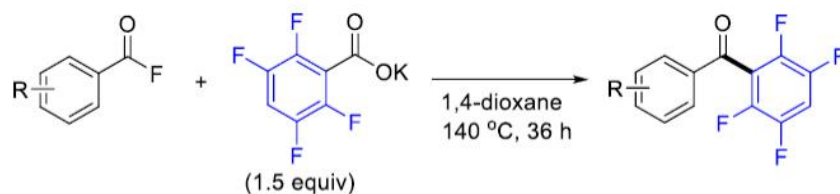


32 examples
yield up to 85%

Decarboxylative Cross-Coupling of Acyl Fluorides with Potassium Perfluorobenzoates

Liyan Fu, Qiang Chen, and Yasushi Nishihara

Org. Lett., 2020, 22, 16, 6388-6393

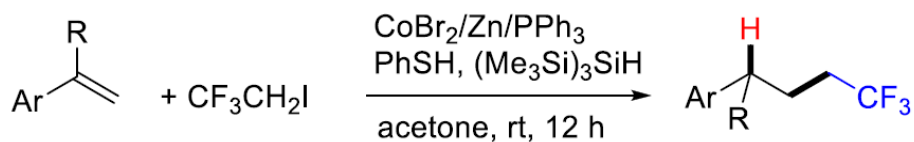


3 examples
yield up to 64%

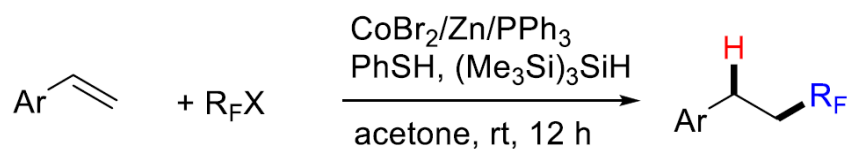
Cobalt-Catalyzed Radical Hydrotrifluoroethylation of Styrenes with Trifluoroethyl Iodide

Bin He, Qijun Pan, Yong Guo, Qing-Yun Chen, and Chao Liu*

Org. Lett., 2020, 22, 16, 6552-6556



23 examples
yield up to 87%



6 examples
yield up to 67%