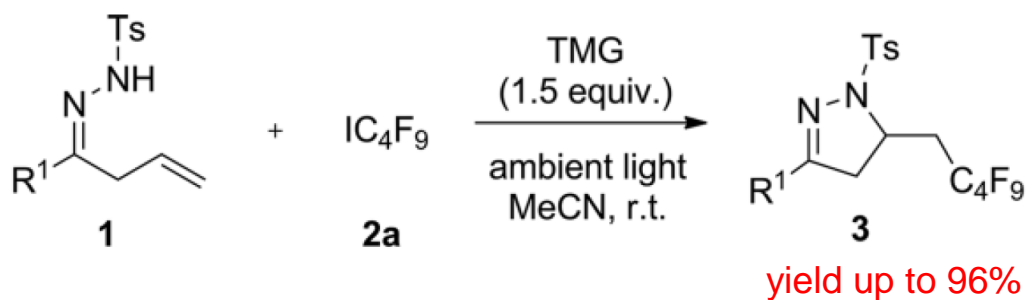


Ambient-Light-Promoted Perfluoroalkylative Cyclization of β,γ -Unsaturated Hydrazones: Synthesis of Perfluoroalkylated Pyrazolines

Jing-miao Yu and Chun Cai

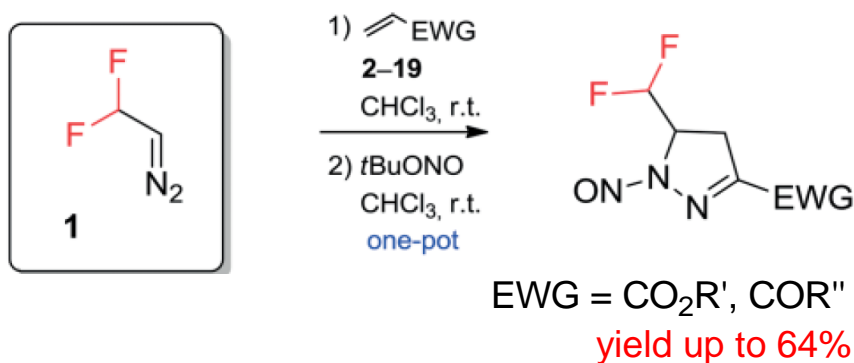
Eur.J. Org.Chem., 2017, (40), 6008-6012



Synthesis of *N*-Nitroso CHF_2 -Pyrazolines and Their Transformation into CHF_2 -Isoxazolines and -Pyrazoles

Pavlo S. Lebed, Johan Fenneteau, Yong Wu, Janine Cossy, and Pavel K. Mykhailiuk

Eur.J. Org.Chem., 2017, (41), 6114-6120

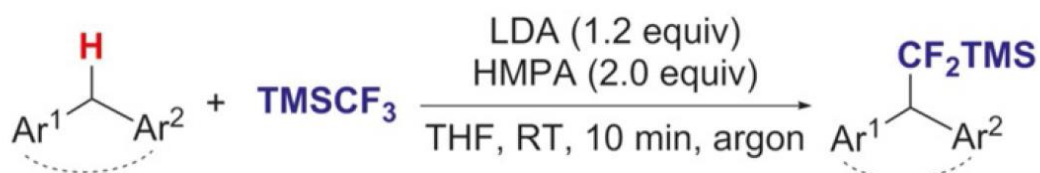


CHEMISTRY An Asian Journal

HMPA-Promoted Siladifluoromethylation of Di-, and Triarylmethanes with Ruppert–Prakash Reagent

Xinfei Ji, Xianghu Zhao, Hongyan Shi and Song Cao

Chem. An Asian J., 2017, 12, 2794-2798



17 examples
yield up to 94%

Russian Journal of Organic Chemistry Журнал органической химии

Reaction of Difluoromethyl Pentafluorophenyl Sulfoxide with Nucleophiles

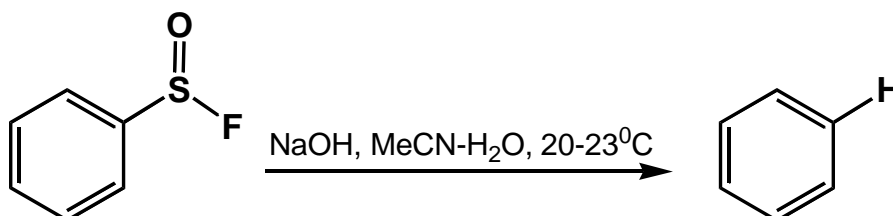
B. V. Koshcheev, A. M. Maksimov, V. E. Platonov, and V. V. Shelkovnikov

Russ. J. Org. Chem., 2017, 53 (7), 1012–1016.

ВЗАИМОДЕЙСТВИЕ ДИФТОРМЕТИЛ(ПЕНТАФТОРФЕНИЛ)-СУЛЬФОКСИДА С НУКЛЕОФИЛАМИ

Б. В. Кошчев, А. М. Максимов, В. Е. Платонов, В. В. Шелковников

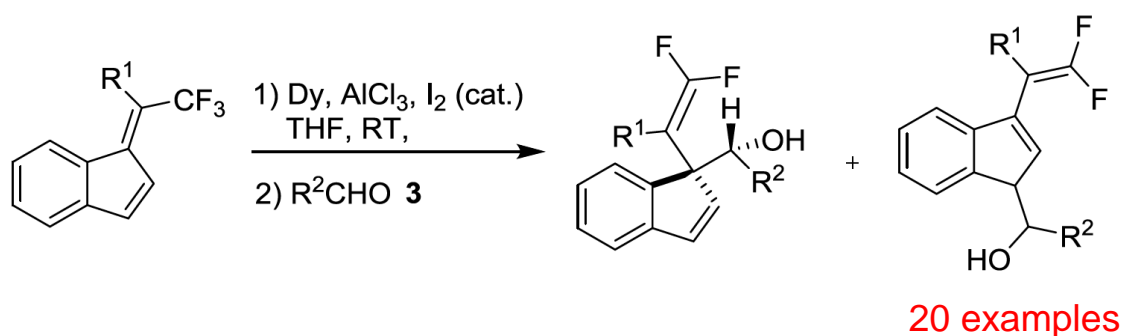
Журн. орг. химии. 2017, 53 (7), 1001-1005



Generation of ϵ,ϵ -difluorinated metal-pentadienyl species through lanthanide-mediated C-F activation

Tarun Kumar, Fabien Massicot, Dominique Harakat, Sylviane Chevreux, Agathe Martinez, Klaudia Bordolinska, Preethanuj Preethalayam, Radhakrishnan Kokkuvayil Vasu, Jean-Bernard Behr, Jean-Luc Vasse, and Florian Jaroschik

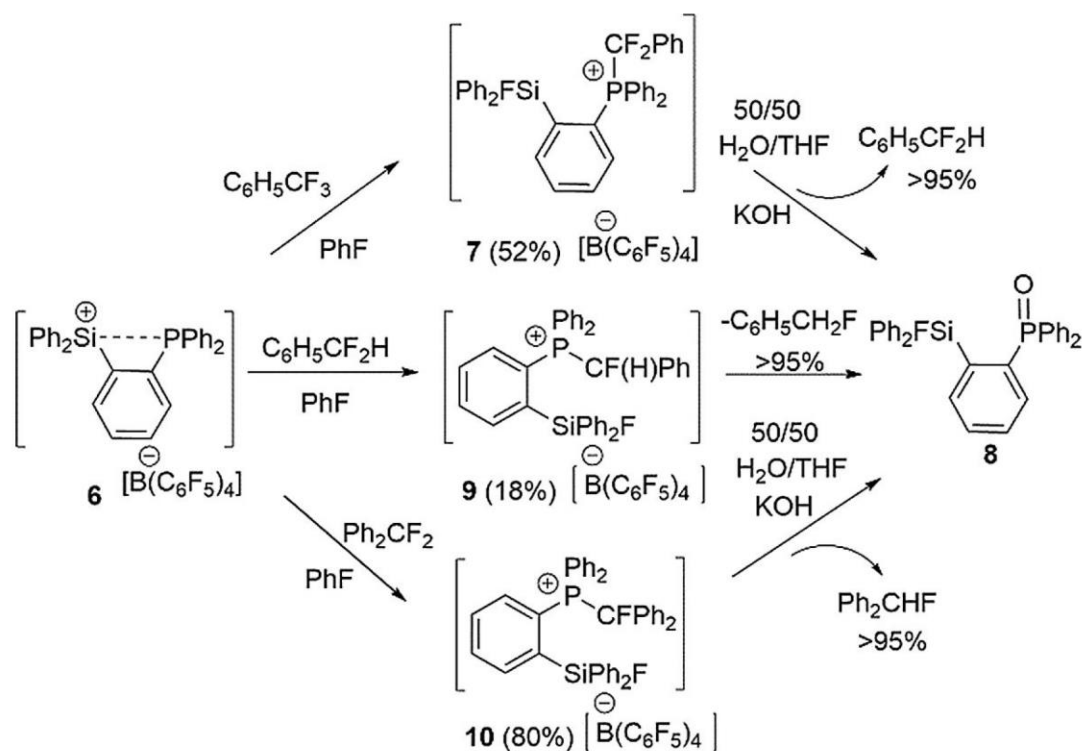
Chem. Eur. J., 2017, 23, 16460-16465



C-F Bond Activation by Silylium Cation/Phosphine Frustrated Lewis Pairs: Mono-Hydrodefluorination of PhCF_3 , PhCF_2H and Ph_2CF_2

Ian Mallov, Adam J. Ruddy, Hui Zhu, Stefan Grimme, and Douglas W. Stephan

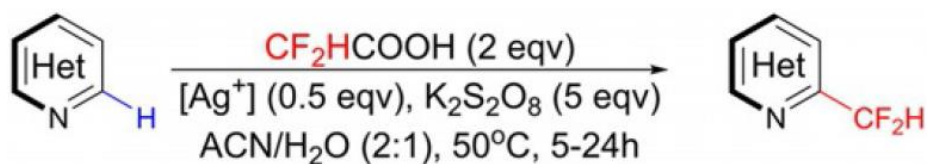
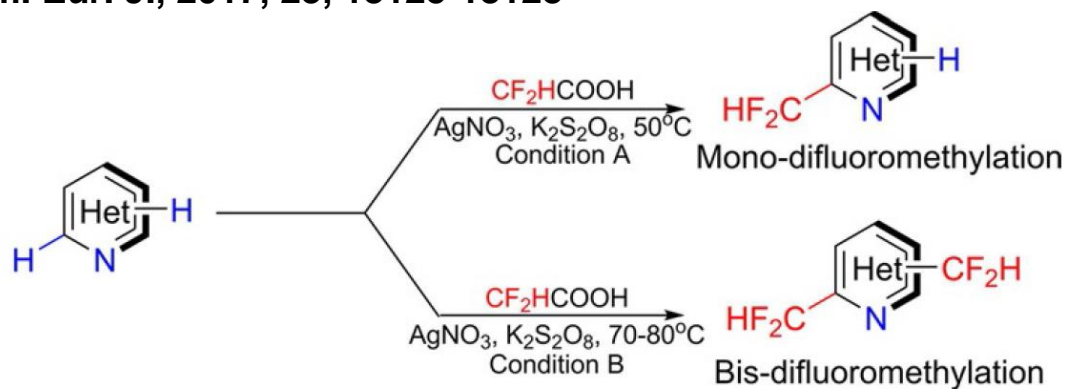
Chem. Eur. J., 2017, 23, 17692-17696



Difluoroacetic Acid as a New Reagent for Direct C-H Difluoromethylation of Heteroaromatic Compounds

Truong Thanh Tung, Søren Brøgger Christensen, and John Nielsen

Chem. Eur. J., 2017, 23, 18125-18128

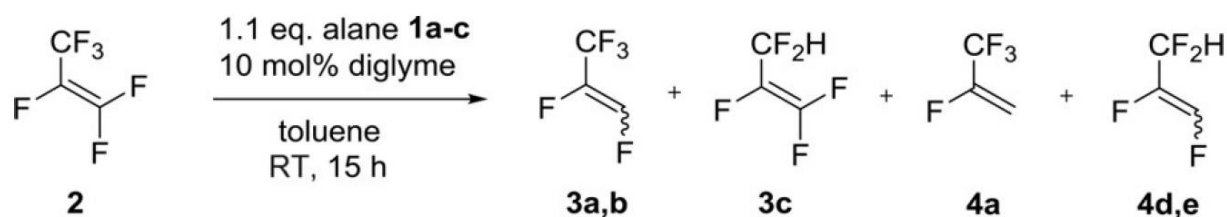


20 examples
yield up to 89%

Organocatalytic C-F Bond Activation with Alanes

Alma D. Jaeger, Christian Ehm, and Dieter Lentz

Chem. Eur. J., 2018, 24, 6769-6777

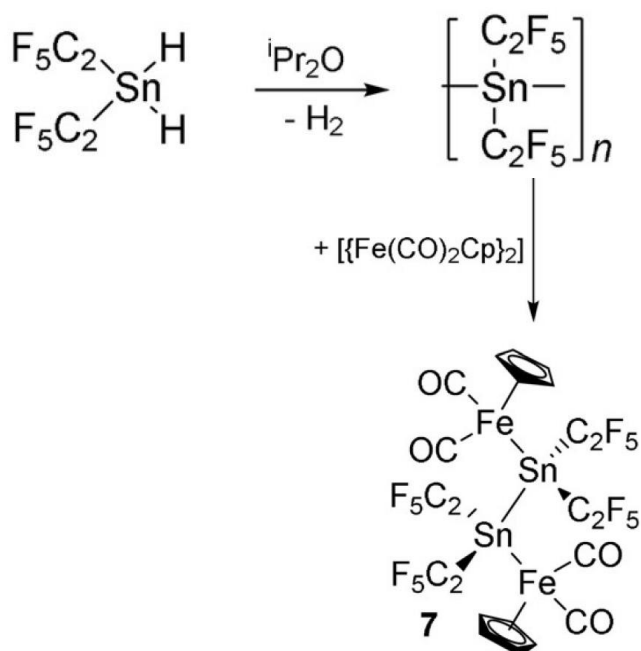


yield up to 96%

Synthesis and Reactivity of Donor-Stabilized Bis(pentafluoroethyl)stannylene [Sn(C₂F₅)₂(D)_n] (D=THF, DMAP, PMe₃, [Sn(C₂F₅)₃]⁻)

Johannes Klösener, Markus Wiesemann, Mark Niemann, Beate Neumann, Hans-Georg Stammler, and Berthold Hoge

Chem. Eur. J., 2018, 24, 4412-4422

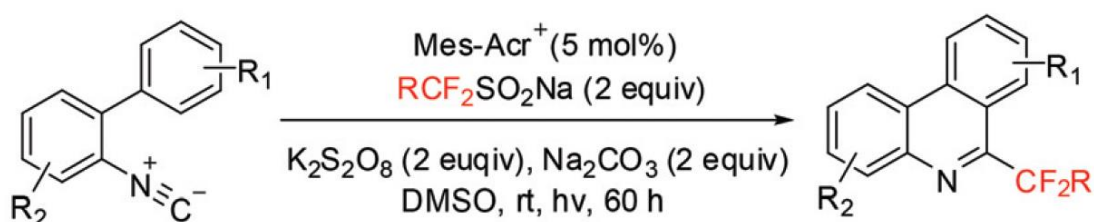


Organic Chemistry Frontiers

Transition-metal-free radical fluoroalkylation of isocyanides for the synthesis of tri-/di-/monofluoromethylated phenanthridines

Jing Fang, Wei-Guo Shen, Gui-Zhen Ao and Feng Liu

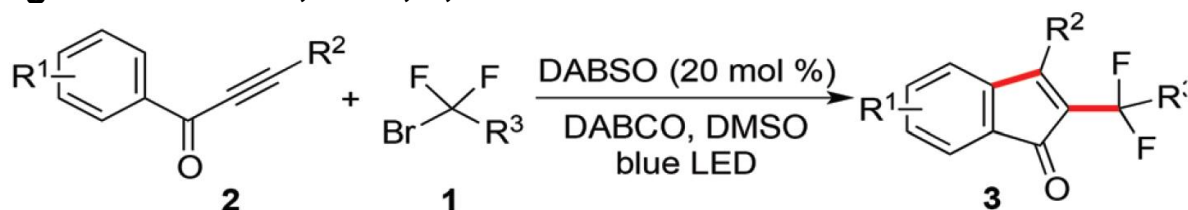
Org. Chem. Front., 2017, 4, 2049-2054



A photoinduced reaction of perfluoroalkyl halides with 1,3-diarylprop-2-yn-1-ones catalyzed by DABSO

Yuewen Li, Yiye Lu, Runyu Mao, Zhiming Li and Jie Wu

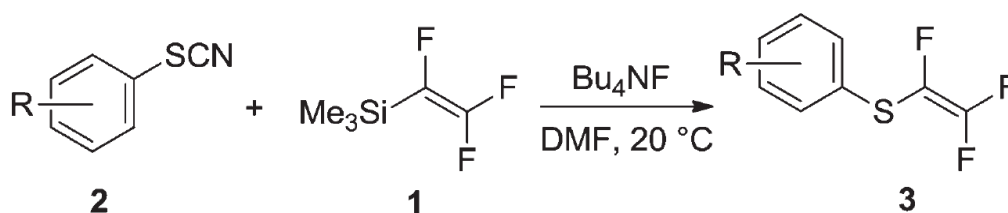
Org. Chem. Front., 2017, 4, 1745-1750



Synthesis of 1,2,2-trifluorovinyl sulphides and selenides from trifluorovinylolation of organic thiocyanates and selenocyanates

Yunxiao Zhang, Dongping Wu and Zhiqiang Weng

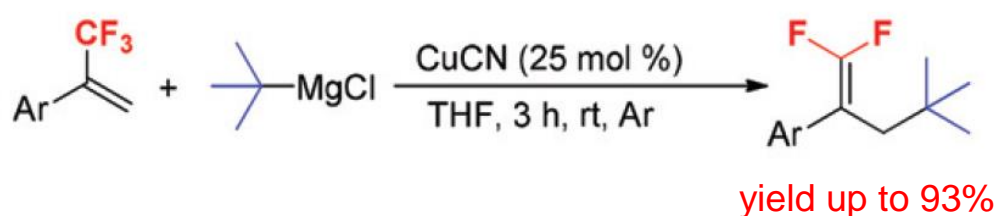
Org. Chem. Front., 2017, 4, 2226-2229



Cu-Catalyzed tertiary alkylation of α -(trifluoromethyl)styrenes with tertiary alkylmagnesium reagents

Wenpeng Dai, Yingyin Lin, Yan Wan and Song Cao

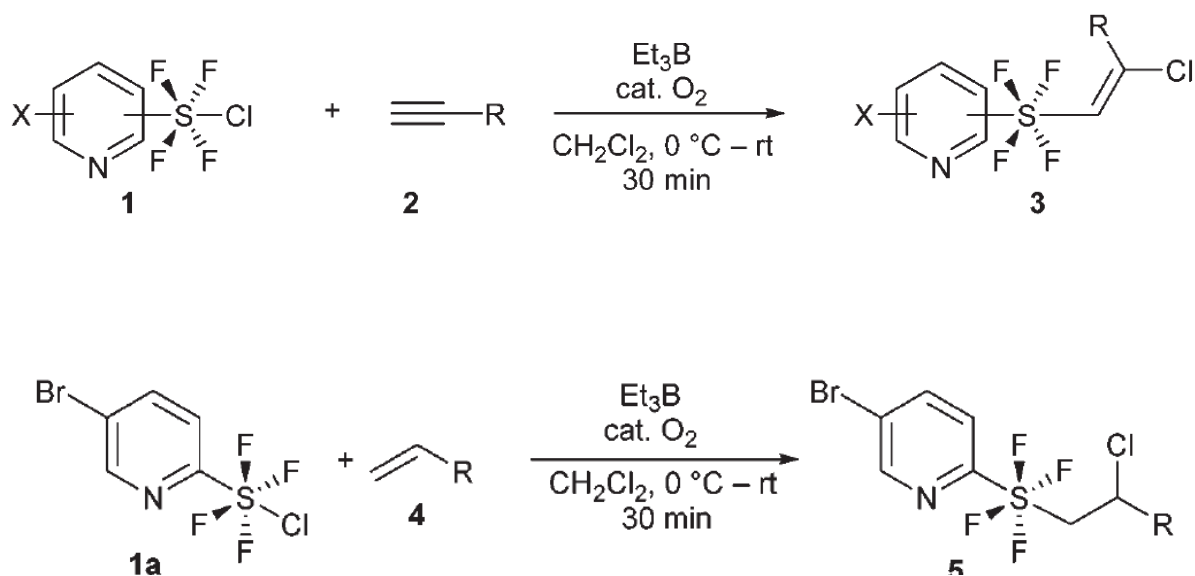
Org. Chem. Front., 2018, 5, 55-58



Synthesis of pyridine trans-tetrafluoro- λ 6-sulfane derivatives via radical addition

Prajwalita Das, Masahiro Takada, Etsuko Tokunaga, Norimichi Saitob and Norio Shibata

Org. Chem. Front., 2018, 5, 719-724

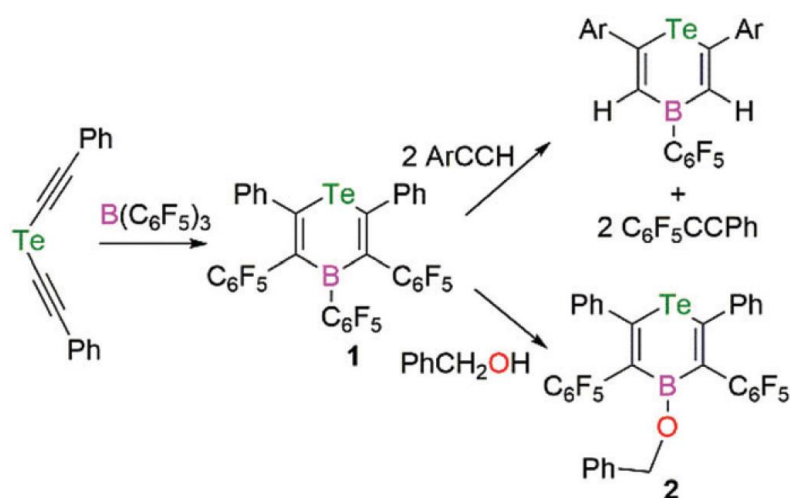


Chemical Communications

Synthesis and reactions of 4H-1,4-telluraborine

Fu An Tsao and Douglas W. Stephan

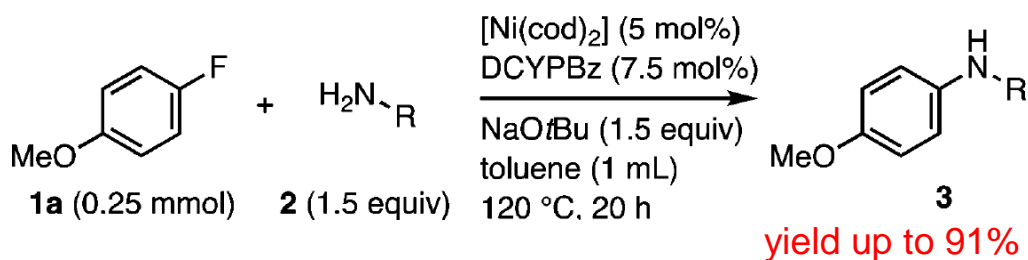
Chem. Commun., 2018, 54, 208-211



Nickel-catalyzed amination of aryl fluorides with primary amines

Tomoya Harada, Yusuke Ueda, Tomohiro Iwai and Masaya Sawamura

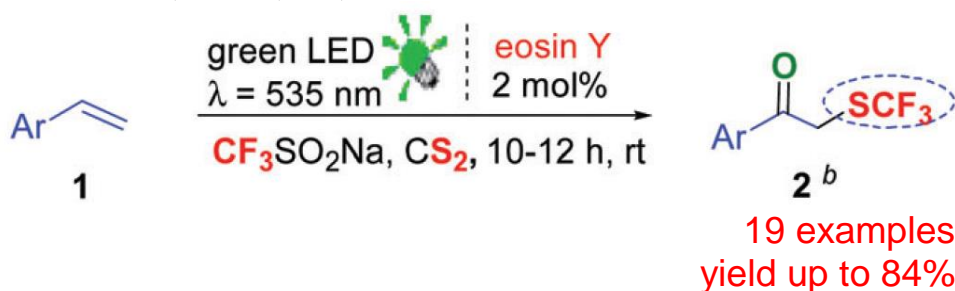
Chem. Commun., 2018, 54, 1718-1721



Visible-light-induced oxidative difunctionalization of styrenes: synthesis of α -trifluoromethylthiosubstituted ketones

Arvind Kumar Yadav and Krishna Nand Singh

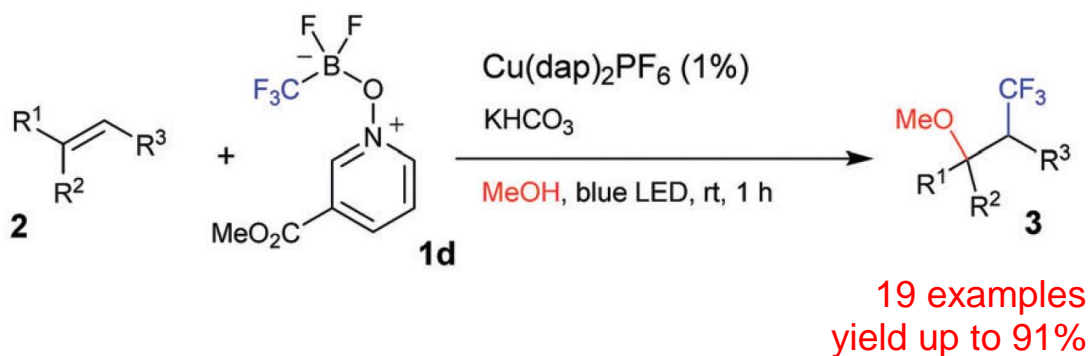
Chem. Commun., 2018, 54, 1976-1979



Photoredox generation of the trifluoromethyl radical from borate complexes via single electron reduction

Vladimir O. Smirnov, Anton S. Maslov, Vladimir A. Kokorekin, Alexander A. Korlyukov and Alexander D. Dilman

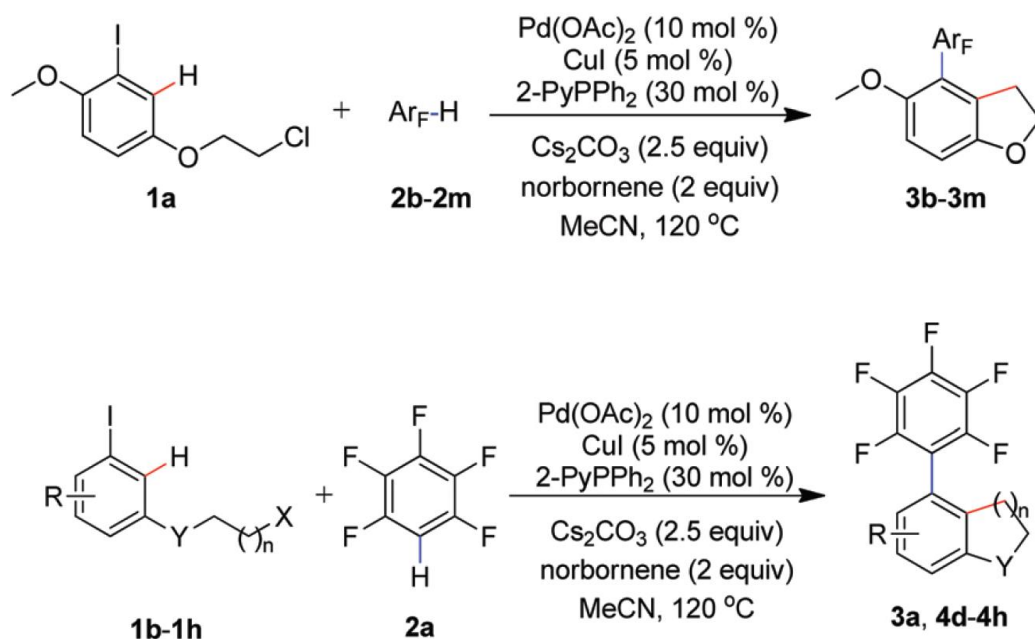
Chem. Commun., 2018, 54, 2236-2239



Synthesis of polyfluoroarene-substituted benzofuran derivatives via cooperative Pd/Cu catalysis

Yi Shen, Xin-Xing Wu, Si Chen, Yu Xia and Yong-Min Liang

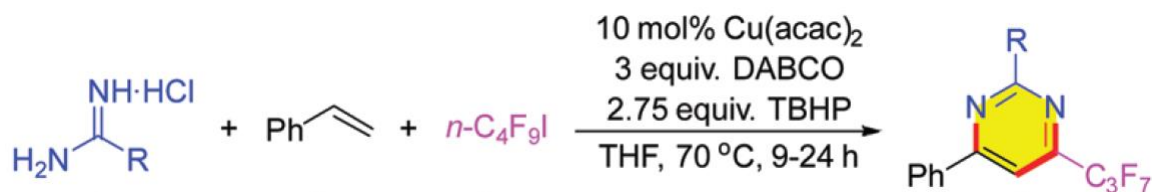
Chem. Commun., 2018, 54, 2256-2259



Copper-catalyzed three-component cyclization of amidines, styrenes, and fluoroalkyl halides for the synthesis of modular fluoroalkylated pyrimidines

Xue-Qiang Chu, Bu-Qing Cheng, Yao-Wei Zhang, Danhua Ge, Zhi-Liang Shen and Teck-Peng Loh

Chem. Commun., 2018, 54, 2615-2618

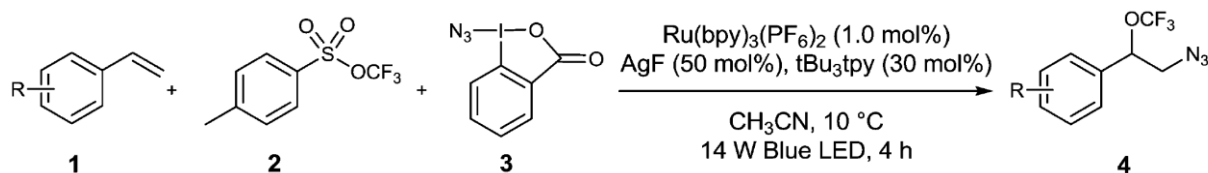


yield up to 91%

Combining photoredox and silver catalysis for azidotrifluoromethoxylation of styrenes

Fei Cong, Yongliang Wei and Pingping Tang

Chem. Commun., 2018, 54, 4473-4476



32 examples
yield up to 80%

Chinese Journal of Chemistry

Difunctionalization of Alkynes: Synthesis of Novel Fluoropolymer Materials

Qiang Wang, Xi-Wen Yu, Jia-Ni Jin, Yang Wu, Yong-Min Liang

Chin. J. Chem., 2018, 36, 223-226

