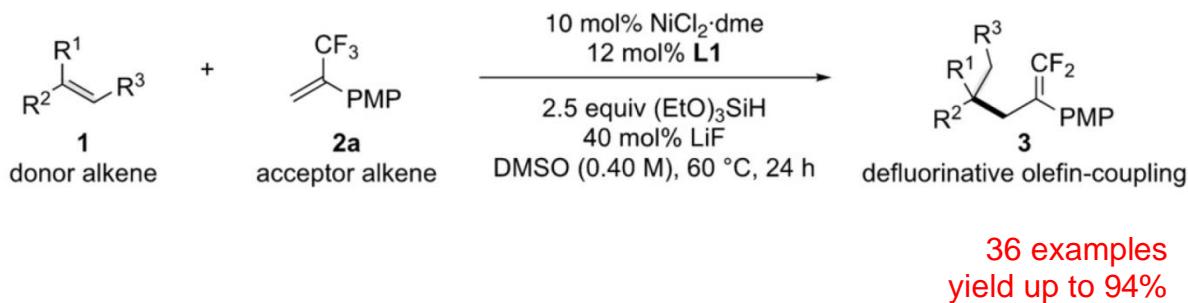


Angewandte Chemie

NiH-Catalyzed Migratory Defluorinative Olefin Cross-Coupling: Trifluoromethyl-Substituted Alkenes as Acceptor Olefins to Form gem -Difluoroalkenes

Fenglin Chen, Xianfeng Xu, Yuli He, Prof. Genping Huang, Prof. Shaolin Zhu

Angew. Chem. Int. Ed., 2020, 59, 5398-5402

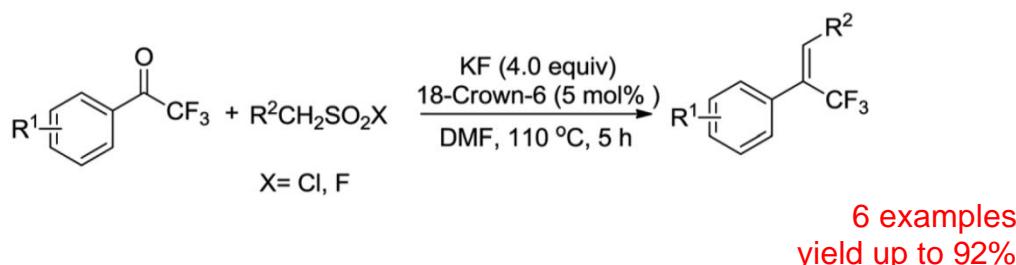


Chemical Communications

Recent advances in the synthesis and applications of α - (trifluoromethyl)styrenes in organic synthesis

Feitao Tian, Guobing Yan and Jian Yu*

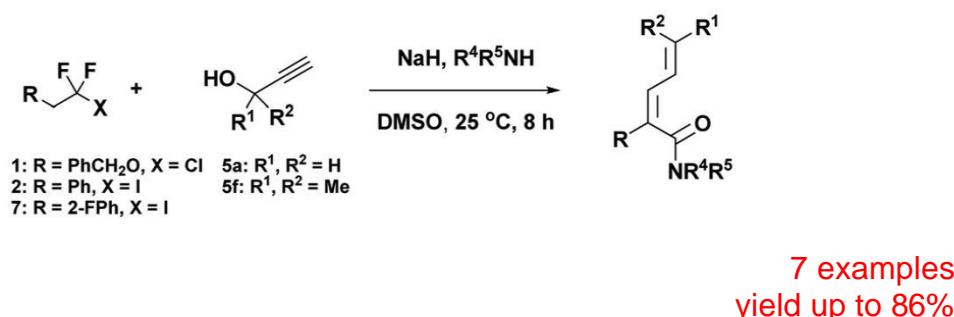
Chem. Commun., 2019, 55, 13486-13505



Stereoselective three-component cascade synthesis of α -substituted 2,4-dienamides from gem-difluorochloro ethanes

Shyamsundar Das, Nakeun Ko, Eunsung Lee, Sang Eun Kimcd and Byung Chul Lee

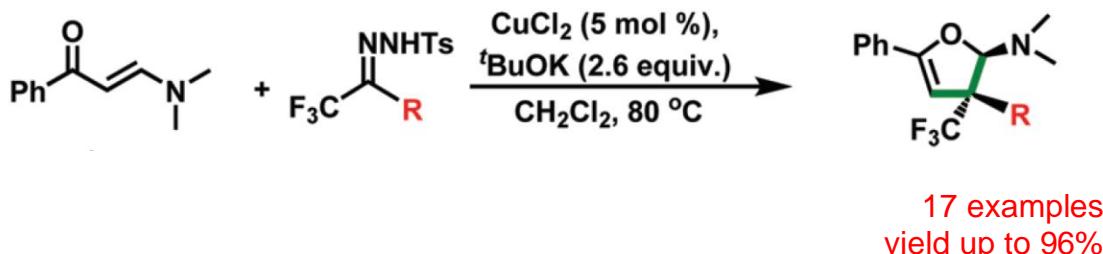
Chem. Commun., 2019, 55, 14355-14358



Stereoselective synthesis of trifluoromethyl-substituted 2H-furan-amines from enaminones

Xiaoyu Liang, Pan Guo, Wenjie Yang, Meng Li, Chengzhou Jiang, Wangbin Sun, Teck-Peng Loh and Yaojia Jiang

Chem. Commun., 2020, 56, 2043-2046

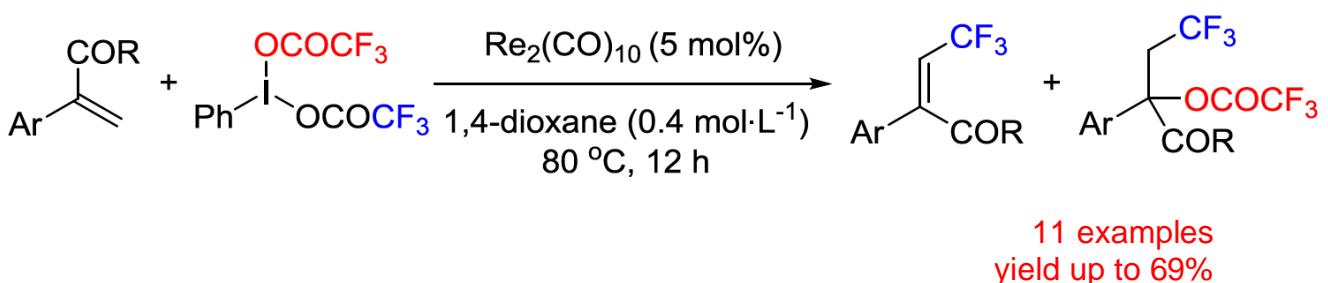
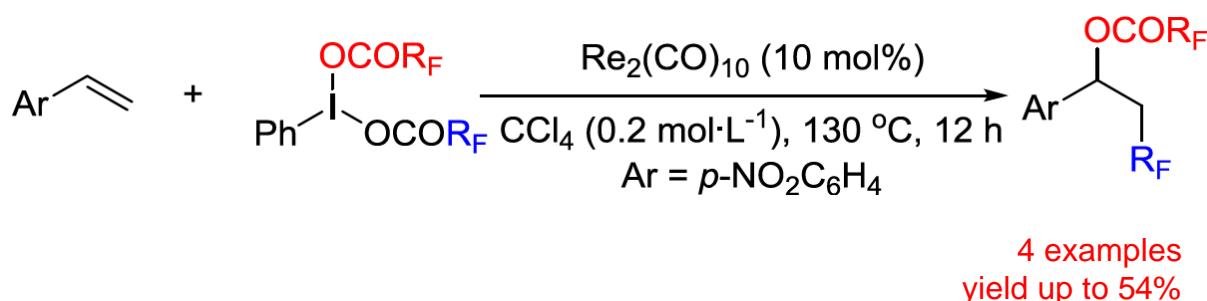


Chinese Journal of Chemistry

Rhenium-Catalyzed Decarboxylative Tri-/Difluoromethylation of Styrenes with Fluorinated Carboxylic Acid-Derived Hypervalent Iodine Reagents

Yin Wang, Yunhui Yang, Congyang Wang

Chin. J. Chem., 2019, 37, 1009-1014

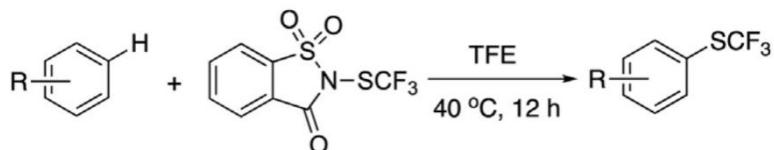


Chinese Chemical Letters

Friedel-Crafts trifluoromethylthiolation of electron-rich (hetero)arenes with trifluoromethylthio-saccharin in 2,2,2-trifluoroethanol (TFE)

Shiyao Lu, Wenbo Chen, Qilong Shen

Chin. Chem. Lett., 2019, 30, 2279-2281



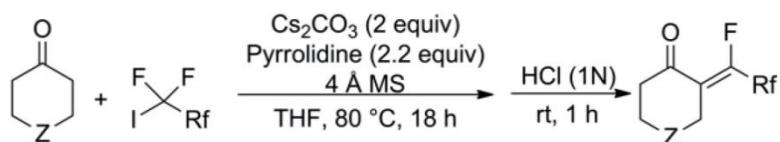
22 examples
yield up to 99%

European Journal of Organic Chemistry

Versatile Fluorinated Building Blocks by Stereoselective (Per)fluoroalkenylation of Ketones

Fei Ye, Shaoke Zhang, Zhihong Wei, Florian Weniger, Anke Spannenberg, Christoph Taeschler, Stefan Ellinger, Haijun Jiao, Helfried Neumann, Matthias Beller

Eur.J. Org.Chem., 2020, 70-81

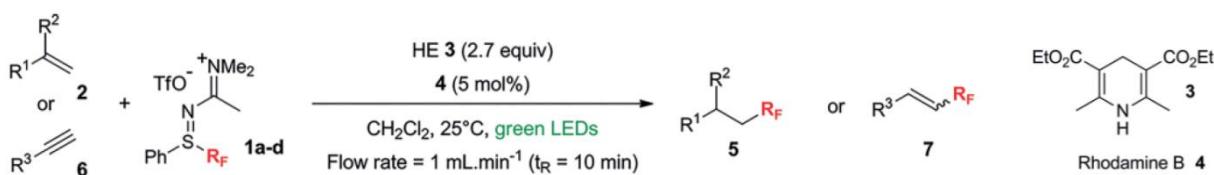


25 examples
yield up to 87%

Metal-Free Visible-Light-Mediated Hydrotrifluoromethylation of Unactivated Alkenes and Alkynes in Continuous Flow

Anne-Laure Barthelemy, Guillaume Dagousset, Emmanuel Magnier

Eur.J. Org.Chem., 2020, 1429-1432

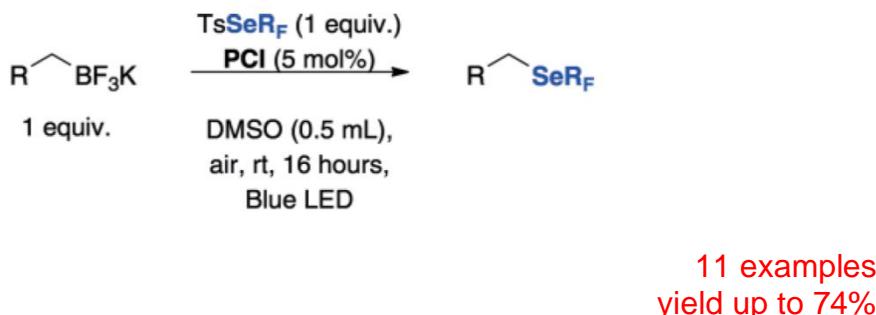


19 examples
yield up to 76%

Fluoroalkylselenolation of Alkyl Silanes/Trifluoroborates under Metal-Free Visible-Light Photoredox Catalysis

Clément Ghiazza, Lhoussain Khrouz, Thierry Billard, Cyrille Monnereau, Anis Tlili

Eur.J. Org.Chem., 2020, 1559-1566

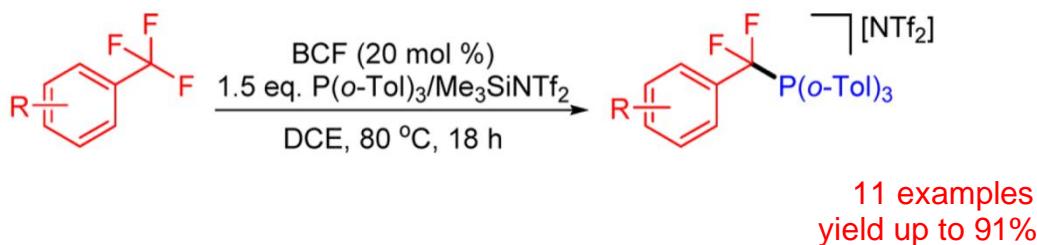


Journal of the American Chemical Society

Frustrated Lewis-Pair-Meditated Selective Single Fluoride Substitution in Trifluoromethyl Groups

Dipendu Mandal, Richa Gupta, Amit K. Jaiswal, and Rowan D. Young*

J. Am. Chem. Soc., 2020, 142, 2572-2578

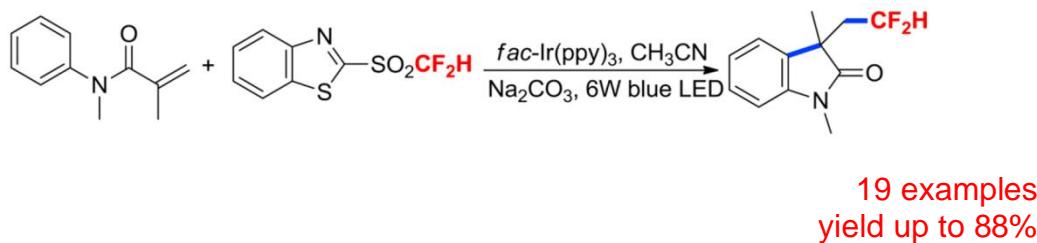


Journal of Fluorine Chemistry

Synthesis of CF2H-containing oxindoles via photoredox-catalyzed radical difluoromethylation and cyclization of N-arylacrylamides

Mei Zhu, Qingqing You, Rongxia Li

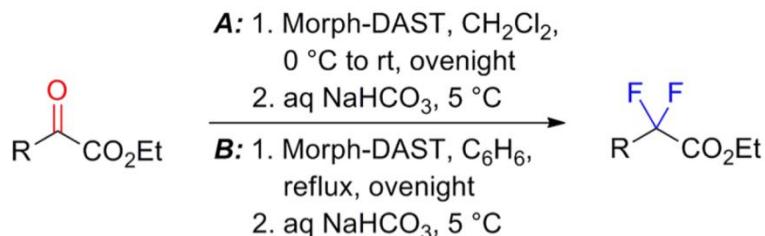
J. Fluor. Chem., 2019, 228, 109391



Synthesis and chemical transformations of diazolyl α,α -difluoroacetates

Oleksandr V.Geraschenko, Vitalii V.Solomin, Bohdan V.Vashchenko, Pavlo Khodakivskyi, Andrey A.Tolmachev, Oleksandr O.Grygorenko

J. Fluor. Chem., 2020, 229, 109407

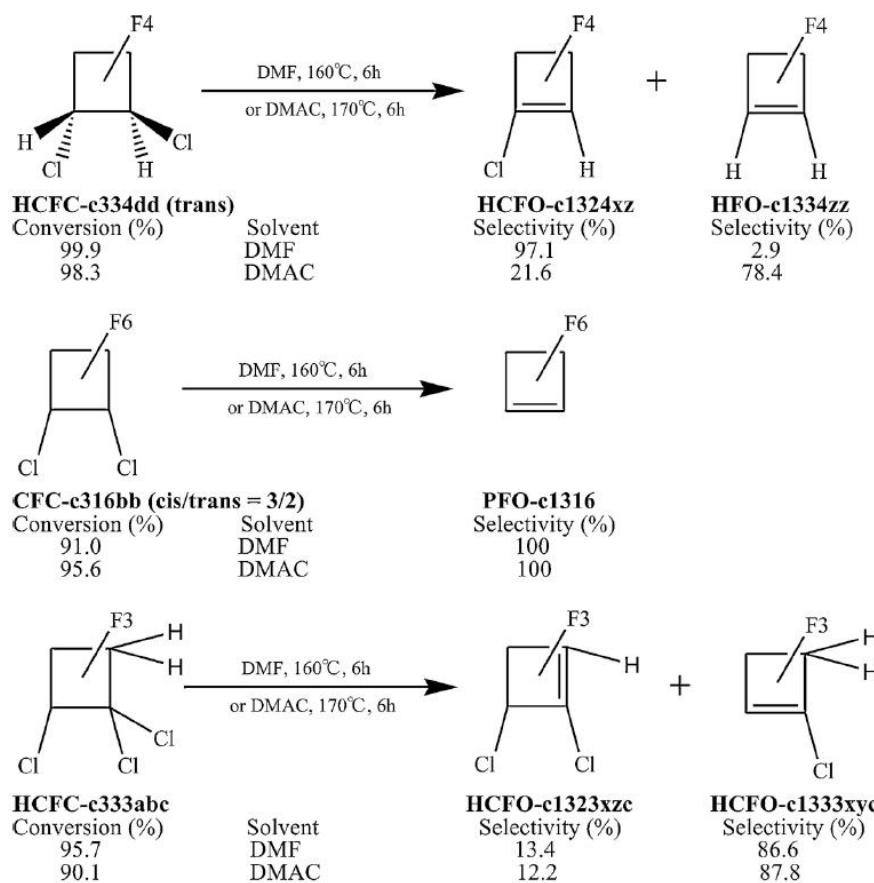


9 examples
 yield up to 96%

Synthesis of hydrohalocyclobutenes through dechlorination of hydrohalocyclobutanes in amide solvents

Wenni Zhang, Fengniu Lu, Chengping Zhang, Qin Guo, Hengdao Quan

J. Fluor. Chem., 2020, 233, 109506

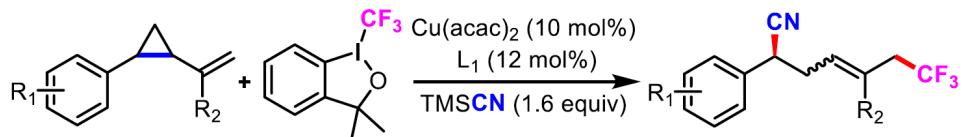


Organic Letters

Enantioselective Copper-Catalyzed 1,5-Cyanotrifluoromethylation of Vinylcyclopropanes

Zi-Qi Zhang, Xiang-Yu Meng, Jie Sheng, Quan Lan, and Xi-Sheng Wang*

Org. Lett., 2019, 21, 8256-8260

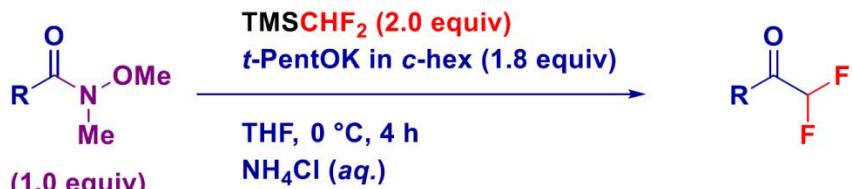


24 examples
yield up to 93%

Direct and Chemoselective Synthesis of Tertiary Difluoroketones via Weinreb Amide Homologation with a CHF₂-Carbene Equivalent

Margherita Miele, Andrea Citarella, Nicola Micale, Wolfgang Holzer, and Vittorio Pace*

Org. Lett., 2019, 21, 8261-8265

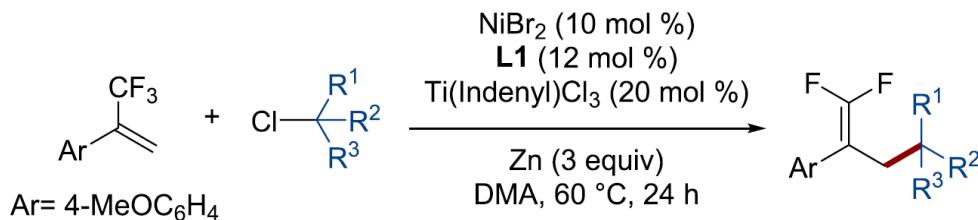


37 examples
yield up to 96%

Reductive Allylic Defluorinative Cross-Coupling Enabled by Ni/Ti Cooperative Catalysis

Zhiyang Lin, Yun Lan, and Chuan Wang*

Org. Lett., 2019, 21, 8316-8322

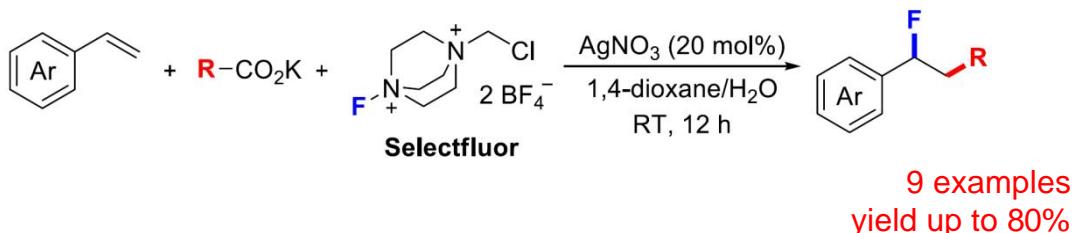


15 examples
yield up to 95%

Silver-Catalyzed Decarboxylative Alkylfluorination of Alkenes

Chen-Guang Li, Qiang Xie, Xiao-Lan Xu, Feng Wang, Bei Huang, Yu-Feng Liang*, and Hua-Jian Xu*

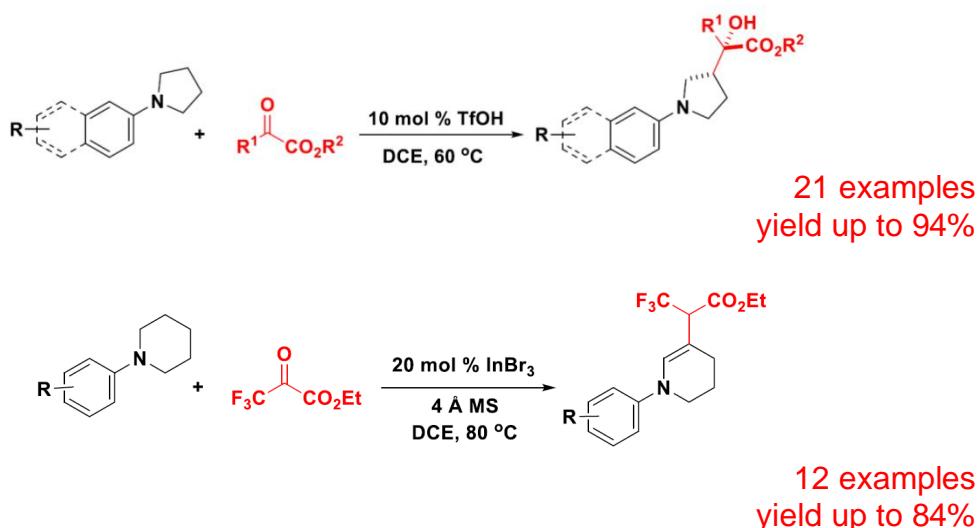
Org. Lett., 2019, 21, 8496-8500



Redox-Neutral β -C(sp³)-H Functionalization of Cyclic Amines via Intermolecular Hydride Transfer

Lan Zhou, Yao-Bin Shen, Xiao-De An, Xian-Jiang Li, Shuai-Shuai Li*, Qing Liu, and Jian Xiao*

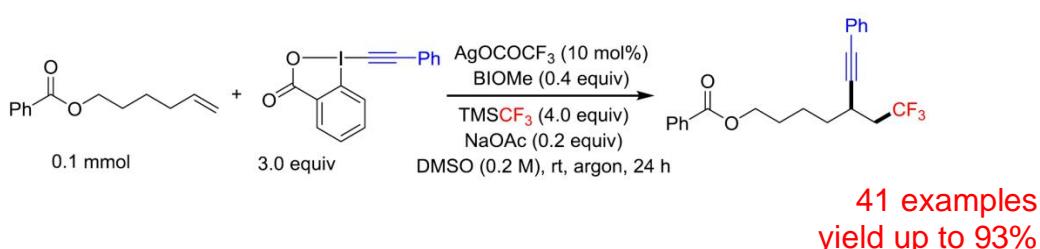
Org. Lett., 2019, 21, 8543-8547



Silver-Catalyzed Trifluoromethylalkynylation of Unactivated Alkenes with Hypervalent Iodine Reagents

Xinkan Yang and Gavin Chit Tsui*

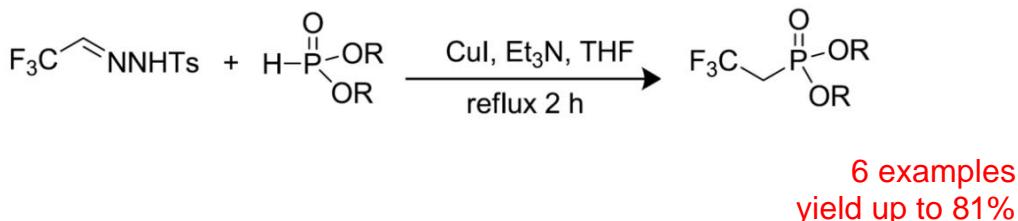
Org. Lett., 2019, 21, 8625-8629



Trifluoroacetaldehyde N-Tosylhydrazone as a Precursor of Trifluorodiazoethane in Reactions of Insertion into the Heteroatom-Hydrogen Bond

Vladimir S. Ostrovskii, Irina P. Beletskaya, and Igor D. Titanyuk*

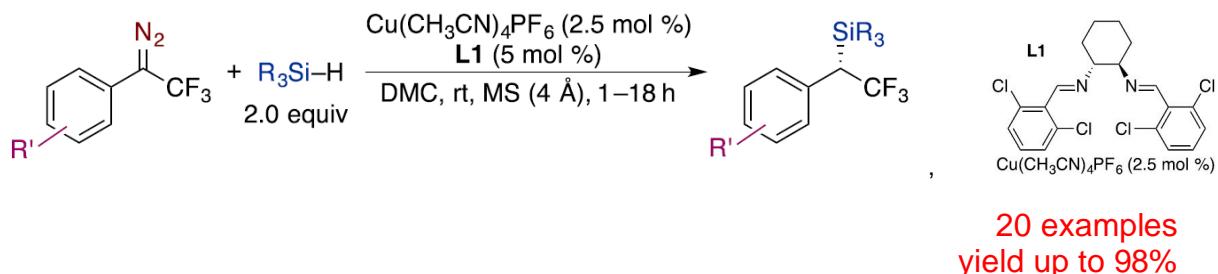
Org. Lett., 2019, 21, 9080-9083



Asymmetric Cu^I-Catalyzed Insertion Reaction of 1-Aryl-2,2,2-trifluoro-1-diazoethanes into Si–H Bonds

Virginie Carreras, Claire Besnard, Vincent Gandon*, and Thierry Ollevier*

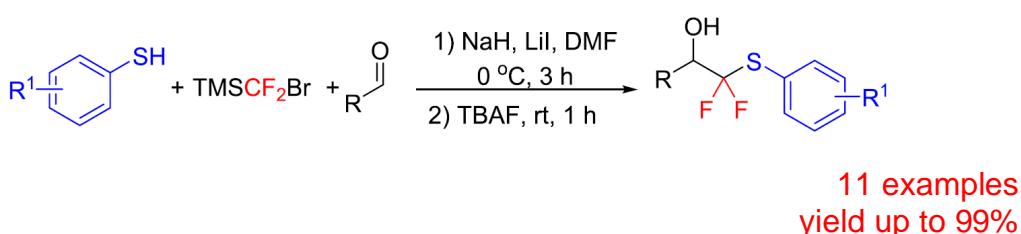
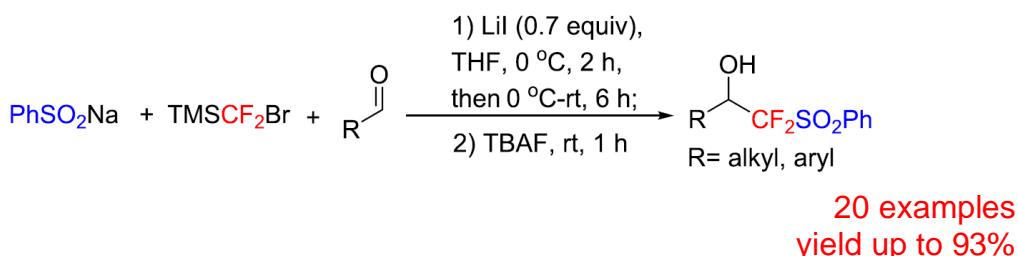
Org. Lett., 2019, 21, 9094-9098



Nucleophilic (Phenylsulfonyl/arylthio)difluoromethylation of Aldehydes with TMSCF₂Br: A Three-Component Strategy

Qiqiang Xie, Ziyue Zhu, Chuanfa Ni, and Jinbo Hu

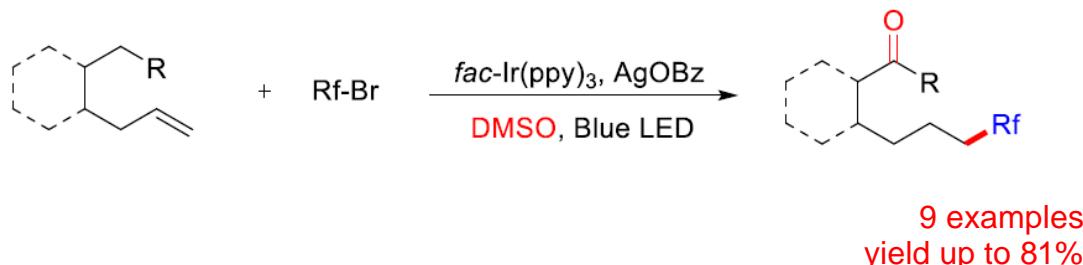
Org. Lett., 2019, 21, 9138-9141



Photoredox-Catalyzed Remote Difunctionalizations of Alkenes To Synthesize Fluoroalkyl Ketones with Dimethyl Sulfoxide as the Oxidant

Lixin Li*, Haotian Luo, Zhengguang Zhao, Yong Li, Qiuju Zhou, Jing Xu, Jie Li and Yan-Na Ma*

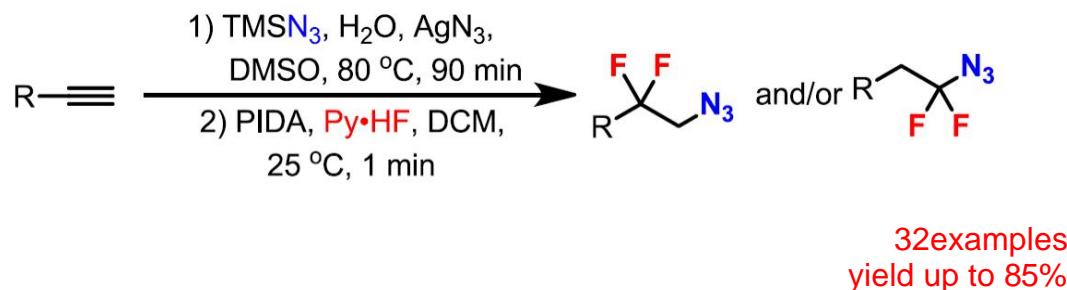
Org. Lett., 2019, 21, 9228-9231



Transformation of Alkynes into α - or β -Difluorinated Alkyl Azides by an Efficient One-Pot Two-Step Procedure

Huaizhi Li, Bhoomireddy Rajendra Prasad Reddy, and Xihe Bi*

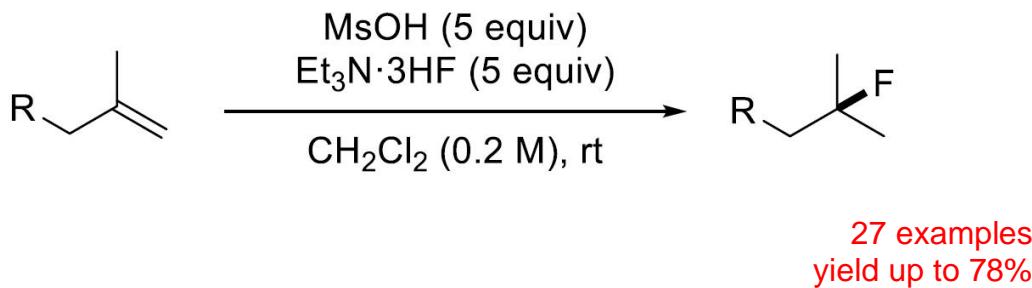
Org. Lett., 2019, 21, 9358-9362



Direct Hydrofluorination of Methallyl Alkenes Using a Methanesulfonic Acid/Triethylamine Trihydrofluoride Combination

Xavier Bertrand and Jean-François Paquin*

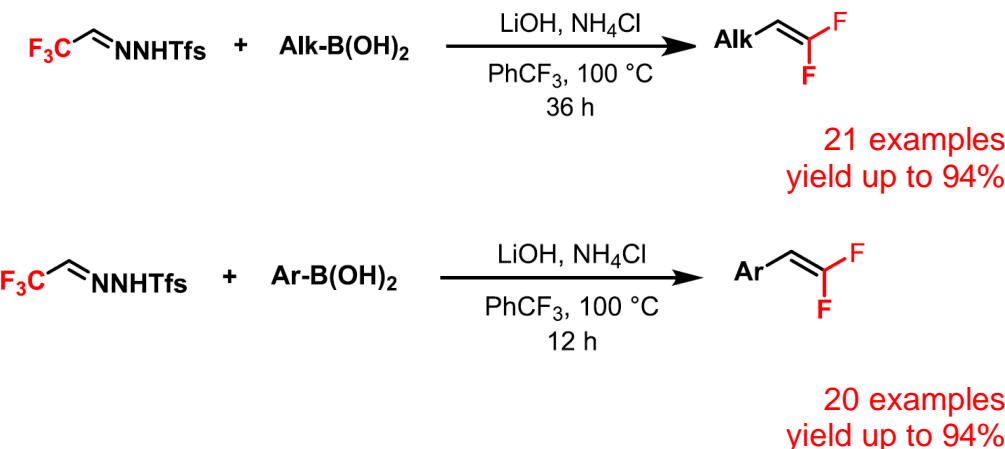
Org. Lett., 2019, 21, 9759-9762



Coupling of Trifluoroacetaldehyde *N*-Triftosylhydrazone with Organoboronic Acids for the Synthesis of *gem*-Difluoroalkenes

Yu Ma, Bhoomireddy Rajendra Prasad Reddy, and Xihe Bi*

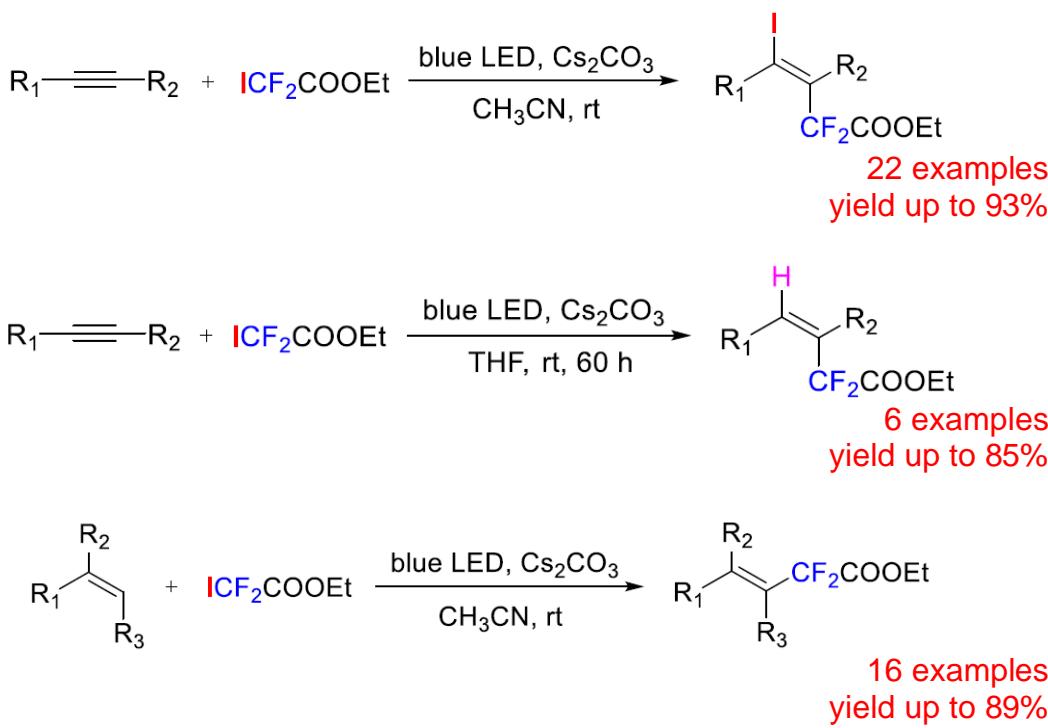
Org. Lett., 2019, 21, 9860-9863



Blue Light Induced Difluoroalkylation of Alkynes and Alkenes

Kangkui Li, Xuexin Zhang, Jingchao Chen*, Yang Gao, Chunhui Yang, Keyang Zhang, Yongyun Zhou, and Baomin Fan*

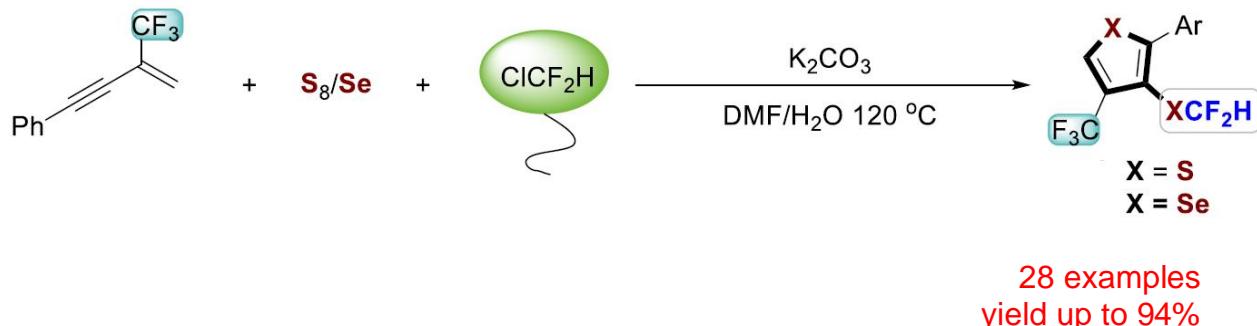
Org. Lett., 2019, 21, 9914-9918



Precise Construction of SCF_2H or SeCF_2H Groups on Heteroarenes Generated *in Situ* from CF_3 -Containing 1,3-Enynes

Kangkui Li, Xuexin Zhang, Jingchao Chen*, Yang Gao, Chunhui Yang, Keyang Zhang, Yongyun Zhou, and Baomin Fan*

Org. Lett., 2020, 22, 615-619



Visible-Light-Induced Deoxygenation/Defluorination Protocol for Synthesis of γ,γ -Difluoroallylic Ketones

Yuan-Qiang Guo, Ruigo Wang, Hongjian Song, Yuxiu Liu, and Qingmin Wang*

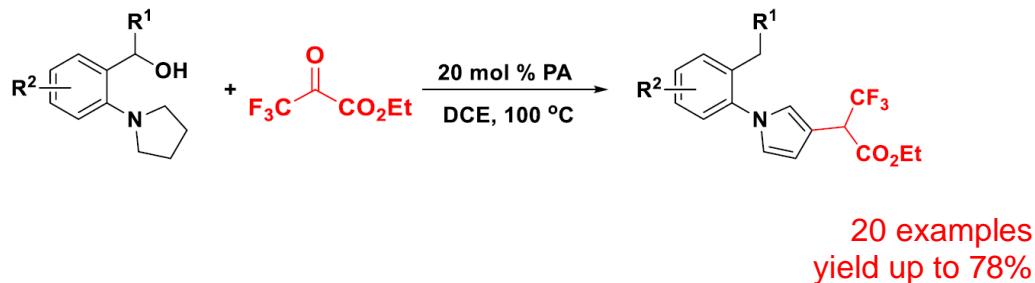
Org. Lett., 2020, 22, 709-713



Organocatalytic Cascade β -Functionalization/Aromatization of Pyrrolidines via Double Hydride Transfer

Lan Zhou, Xiao-De An, Shuo Yang, Xian-Jiang Li, Chang-Lun Shao*, Qing Liu, and Jian Xiao*

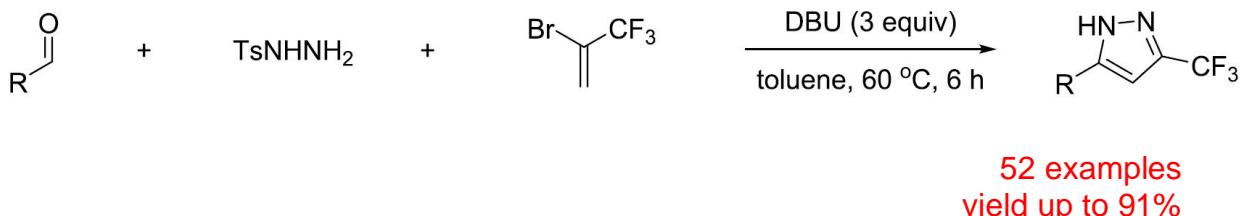
Org. Lett., 2020, 22, 776-780



Regioselective Synthesis of 3-Trifluoromethylpyrazole by Coupling of Aldehydes, Sulfonyl Hydrazides, and 2-Bromo-3,3,3-trifluoropropene

Chuanle Zhu*, Hao Zeng, Chi Liu, Yingying Cai, Xiaojie Fang, and Huanfeng Jiang*

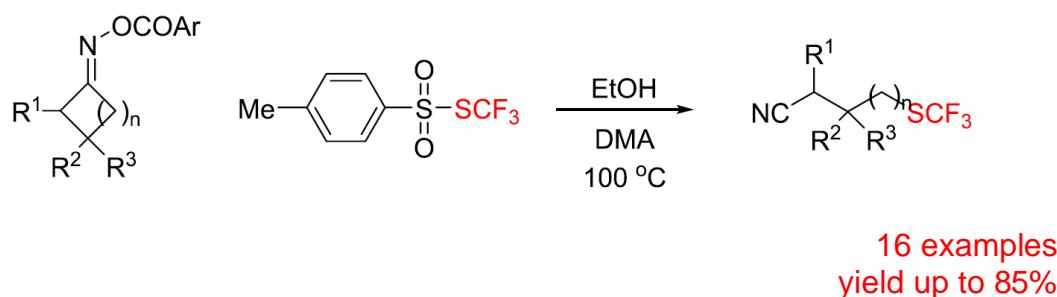
Org. Lett., 2020, 22, 809-813



Metal-Free sp^3 C- SCF_3 Coupling Reactions between Cycloketone Oxime Esters and S-trifluoromethyl 4-Methylbenzenesulfonothioate

Xia Zhao*, MiaoMiao Tian, Liangshuo Ji, Junjie Liu, and Kui Lu

Org. Lett., 2020, 22, 863-866



[3,3]-Sigmatropic Rearrangement/Haller–Bauer Reaction of Aryl Sulfoxides and Selenoxides with Difluoroenoxy silanes: Access to CF_2H -Containing Chalcogenides

Jinshan Li, Yixin Chen, Rong Zhong, Yonggang Zhang, Jianguo Yang, Hanfeng Ding, and Zhiming Wang*

Org. Lett., 2020, 22, 1164-1168

