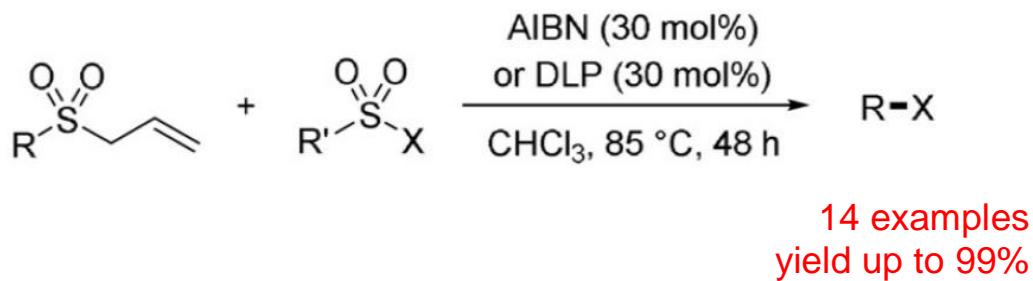
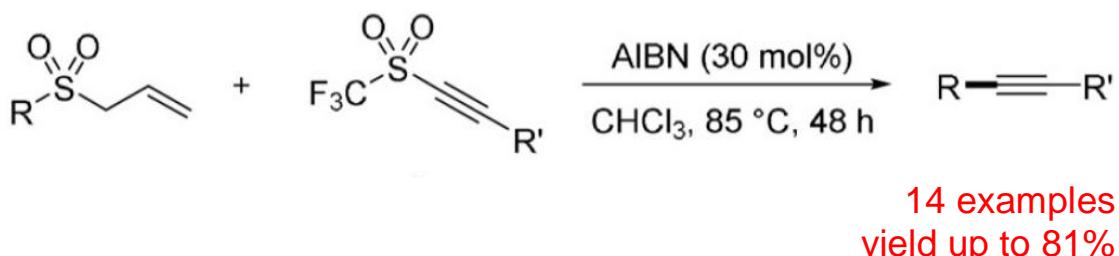


Angewandte Chemie International Edition

Diversity-Oriented Desulfonylative Functionalization of Alkyl Allyl Sulfones

Yong Xia and Armido Studer

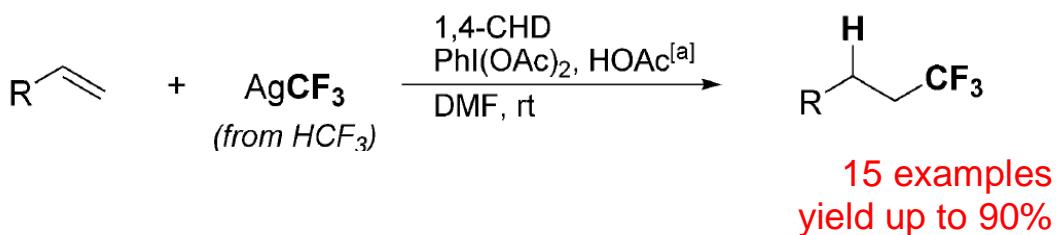
Angew. Chem. Int. Ed., 2019, 58, 9836-9840

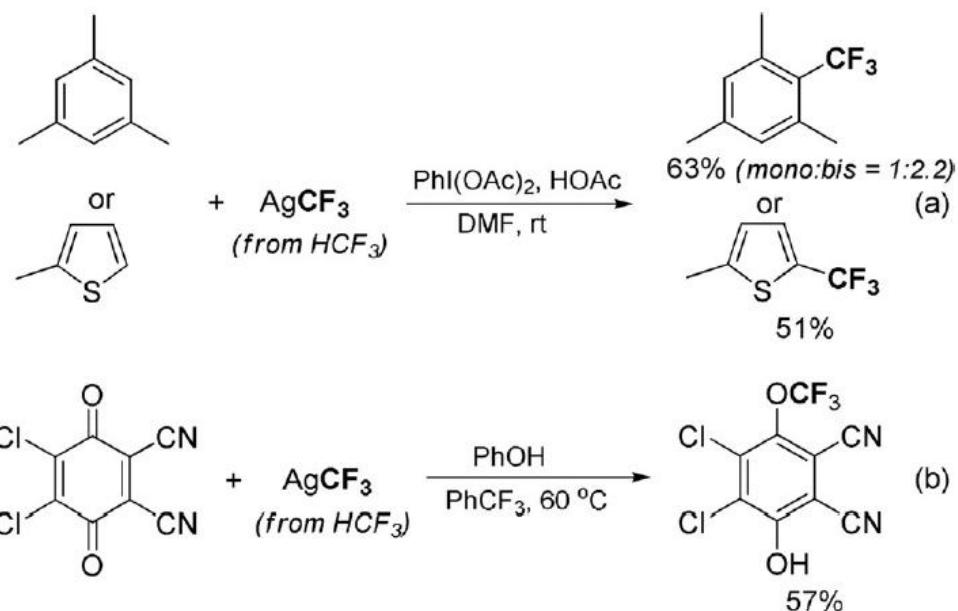


Argentination of Fluoroform: Preparation of a Stable AgCF₃ Solution with Diverse Reactivities

Jia-Xiang Xiang, Yao Ouyang, Xiu-Hua Xu, and Feng-Ling Qing

Angew. Chem. Int. Ed., 2019, 58, 10320-10324

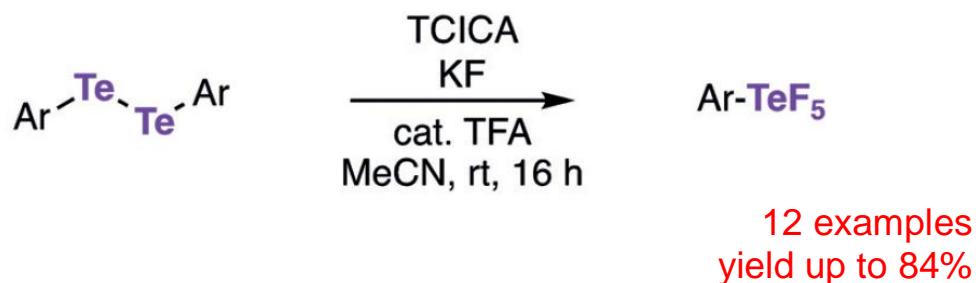




Pentafluoro(aryl)-I⁶-tellanes and Tetrafluoro(aryl)(trifluoromethyl)-I⁶-tellanes: From SF₅ to the TeF₅ and TeF₄CF₃ Groups

Dustin Bornemann, Cody Ross Pitts, Carmen J. Ziegler, Ewa Pietrasik, Nils Trapp, Sebastian Kueng, Nico Santschi, and Antonio Togni

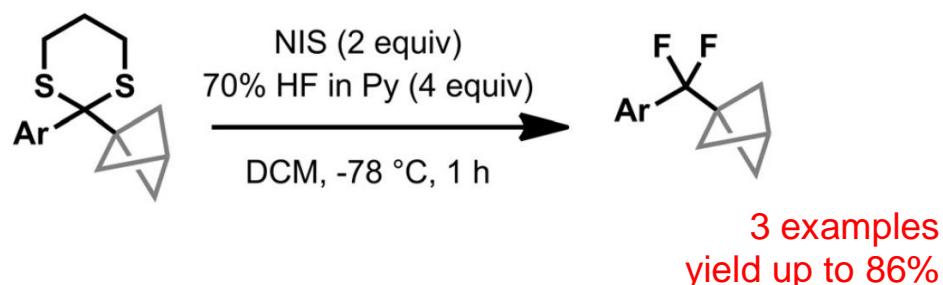
Angew. Chem. Int. Ed., 2019, 58, 12604-12608



Reactions of 2-Aryl-1,3-Dithianes and [1.1.1]Propellane

Nisalak Trongsiriwat, Youge Pu, Yexenia Nieves-Quinones, Russell A. Shelp, Marisa C. Kozlowski, and Patrick J. Walsh

Angew. Chem. Int. Ed., 2019, 58, 13416-13420

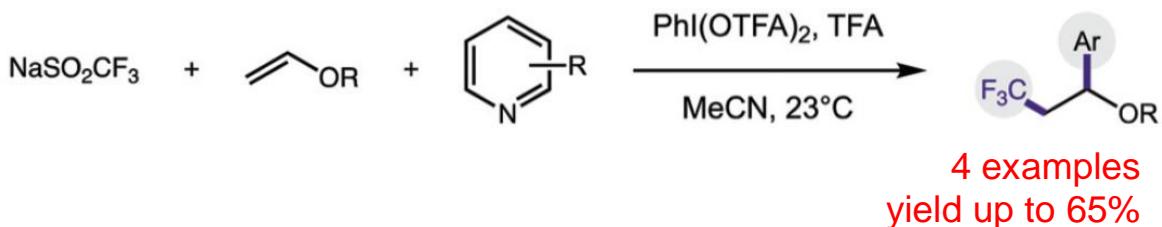


Chemical Communications

Multi-component heteroarene couplings via polarity-reversed radical cascades

Jeremy M. Lear, J. Quentin Buquois, Xin Gu, Kui Pan, Darsheed N. Mustafa and David A. Nagib

Chem. Commun., 2019, 55, 8820-8823



Facile synthesis of α -trifluoromethylthio phosphonium ylides with a constrained trifluoromethylthiooxide *via* a proton-transfer procedure

Chengyao Kimmy Cao, Yue Zhang, Tianlei Lan, Wei Liu and Chao Chen

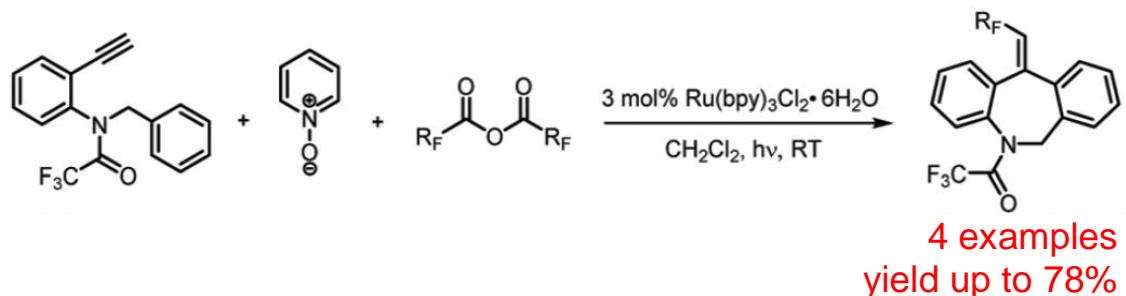
Chem. Commun., 2019, 55, 9479-9482



Photoinduced synthesis of fluorinated dibenz[*b,e*]azepines *via* radical triggered cyclization

Xu-Kuan Qi, Hong Zhang, Zi-Tong Pan, Rong-Bin Liang, Can-Ming Zhu, Jing-Hong Li, Qing-Xiao Tong, Xue-Wang Gao, Li-Zhu Wu and Jian-Ji Zhong

Chem. Commun., 2019, 55, 10848-10851

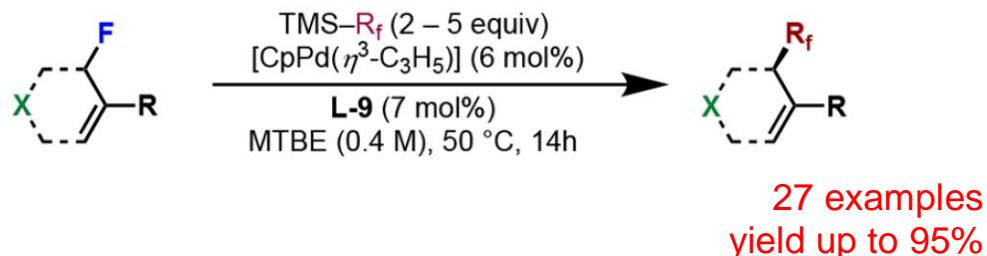


Journal of the American Chemical Society

Palladium-Catalyzed Asymmetric Allylic Fluoroalkylation/Trifluoromethylation

Barry M. Trost, Hadi Gholami, and Daniel Zell

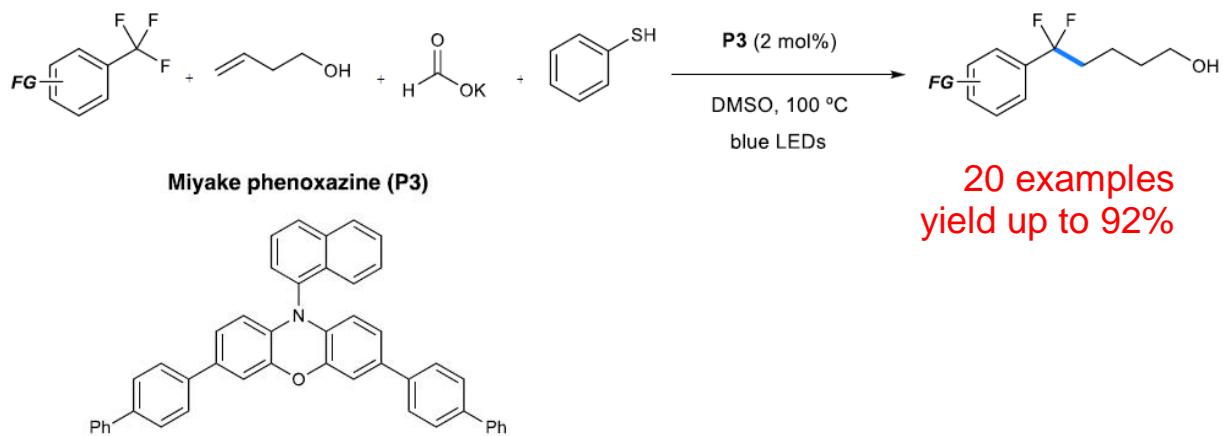
J. Am. Chem. Soc., 2019, 141, 11446-11451



Selective C–F Functionalization of Unactivated Trifluoromethylarenes

David B. Vogt, Ciaran P. Seath, Hengbin Wang, and Nathan T. Jui

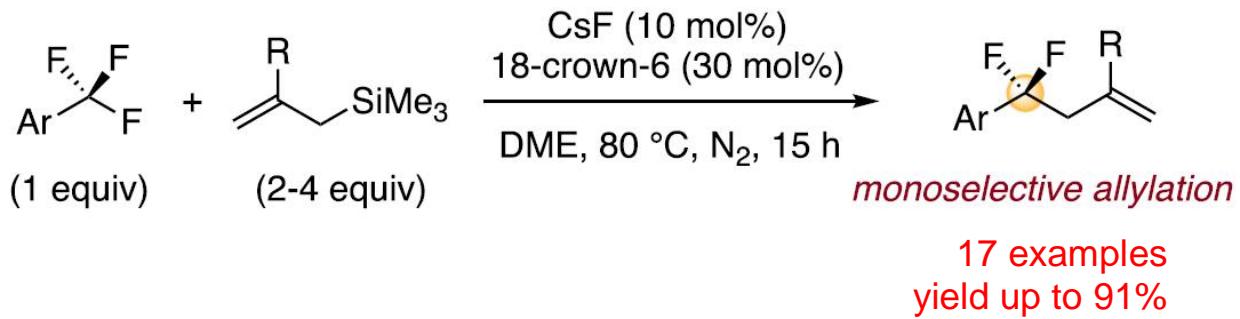
J. Am. Chem. Soc., 2019, 141, 13203-13211



Selective Defluoroallylation of Trifluoromethylarenes

Chaosheng Luo and Jeffrey S. Bandar

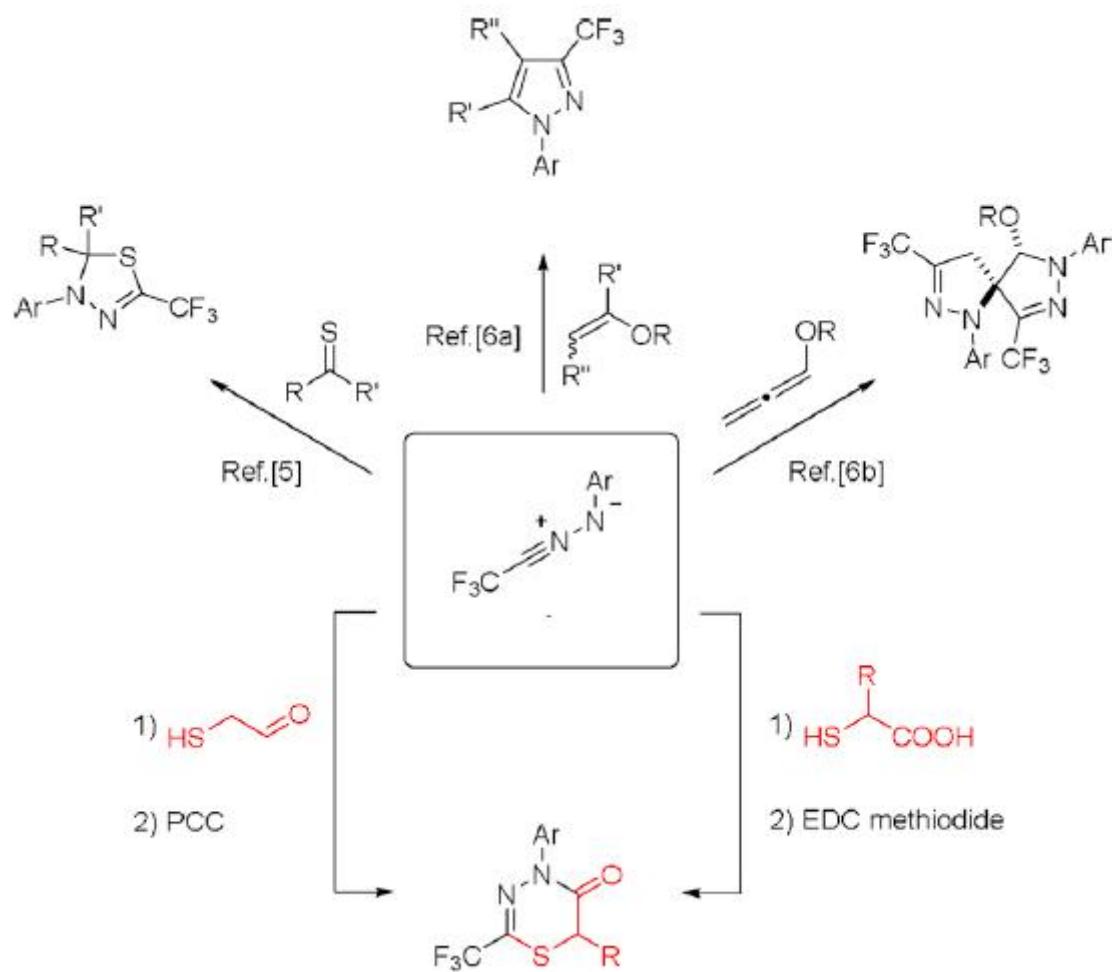
J. Am. Chem. Soc., 2019, 141, 14120-14125



Trapping of trifluoroacetonitrile imines with mercaptoacetaldehyde and mercaptocarboxylic acids: An access to fluorinated 1,3,4-thiadiazine derivatives via (3+3)-annulation

Greta Utecht-Jarzyńska, Aleksandra Michalak, Justyna Banaś, Grzegorz Młostoni, Marcin Jasiński

J. Fluor. Chem., 2019, 222-223, 8-14.

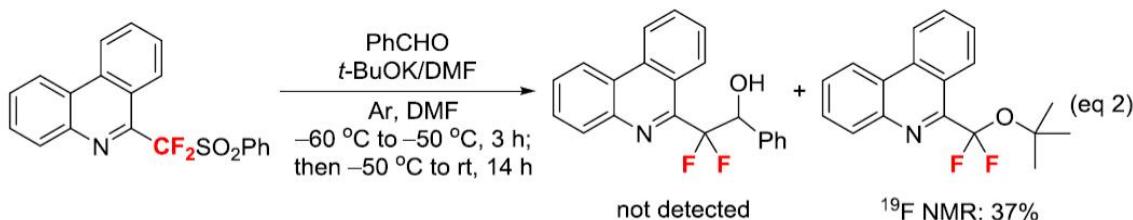


Journal of Organic Chemistry

Fluoroalkylation of Various Nucleophiles with Fluoroalkyl Sulfones through a Single Electron Transfer Process

Pan Xiao, Chuanfa Ni, Wenjun Miao, Min Zhou, Jingyu Hu, Dingben Chen, and Jinbo Hu

J. Org. Chem., 2019, 84, 8345-8359

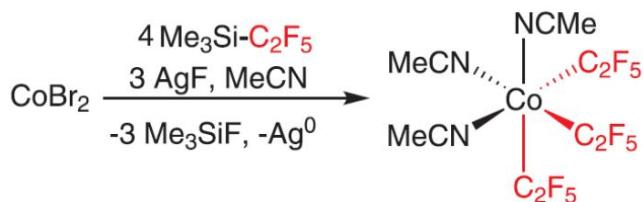


Organometallics

[(MeCN)₃Co(C₂F₅)₃]: A Versatile Precursor to Cobalt(III) Perfluoroethyl Complexes

Scott T. Shreiber, John J. Scudder, and David A. Vicic

Organometallics, 2019, 38, 3169-3173

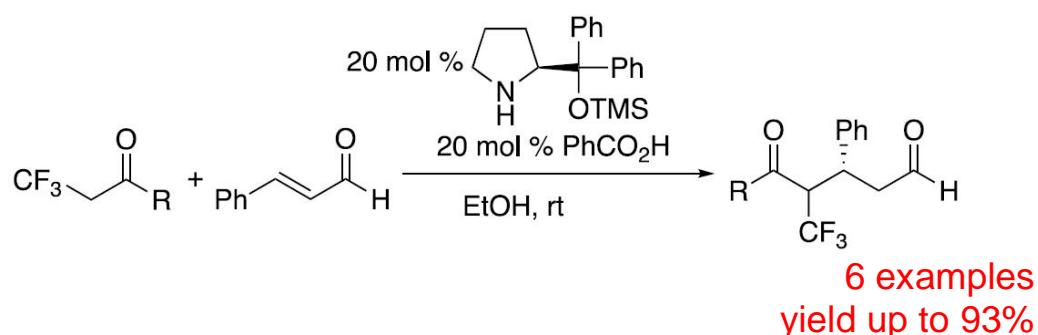


Organic Letters

Asymmetric Michael Reaction of *a*-CF₃ Thioester and *a,b*-Unsaturated Aldehyde Catalyzed by Diphenylprolinol Silyl Ether

Yujiro Hayashi, Tomoaki Yamada, Misaki Sato, Shoya Watanabe, Eunsang Kwon, Kotaro Iwasaki, and Shigenobu Umamiya

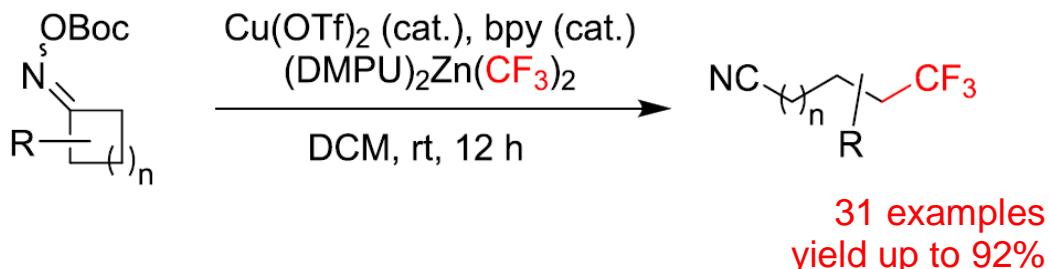
Org. Lett., 2019, 21, 5183-5186



Copper-Catalyzed Ring-Opening Radical Trifluoromethylation of Cycloalkanone Oximes

Zhonglin Liu, Haigen Shen, Haiwen Xiao, Zhentao Wang, Lin Zhu, and Chaozhong Li

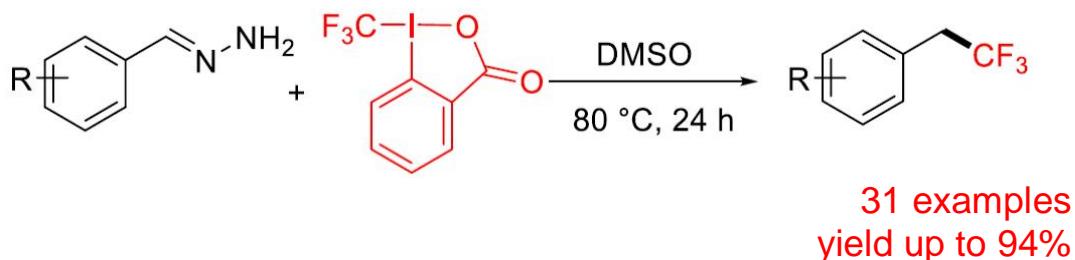
Org. Lett., 2019, 21, 5201-5205



Metal-Free Construction of the C(sp³)–CF₃ Bond: Trifluoromethylation of Hydrazones with Togni's Reagent under Mild Conditions

Huiying Zeng, Zhen Luo, Xinlong Han, and Chao-Jun Li

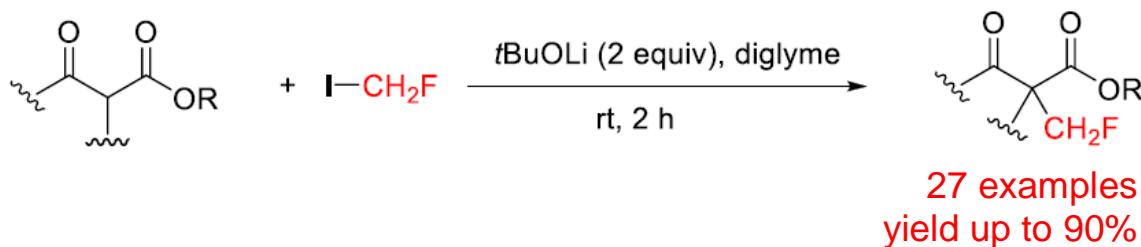
Org. Lett., 2019, 21, 5948-5951



Highly Carbon-Selective Monofluoromethylation of β-Ketoesters with Fluoromethyl Iodide

Tianqi Ding, Lvqi Jiang, Jie Yang, Yimin Xu, Guixiang Wang, and Wenbin Yi

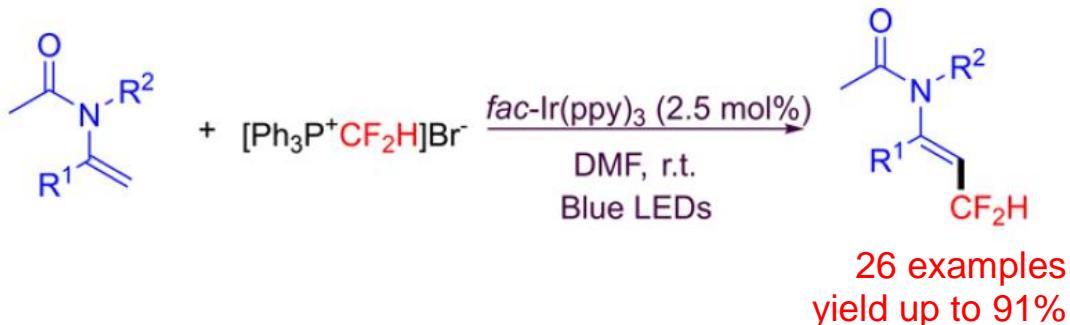
Org. Lett., 2019, 21, 6025-6028



Regioselective and Stereoselective Difluoromethylation of Enamides with Difluoromethyltriphenylphosphonium Bromide via Photoredox Catalysis

Tong-Hao Zhu, Ze-Yu Zhang, Ji-Yu Tao, Kai Zhao, and Teck-Peng Loh

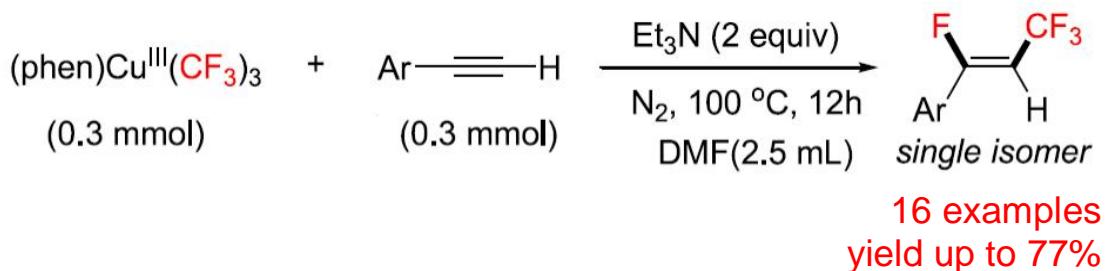
Org. Lett., 2019, 21, 6155-6159



Hydrogen-Bonding-Assisted α -F Elimination from Cu-CF₃ for in Situ Generation of R₃N-HF Reagents: Reaction Design and Applications

Song-Lin Zhang and Jia-Jia Dong

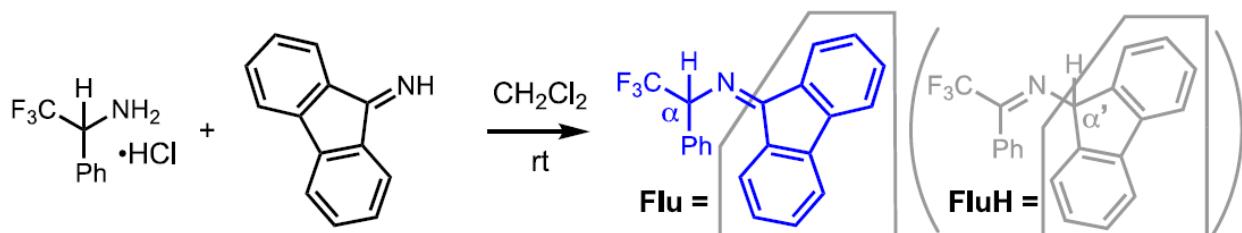
Org. Lett., 2019, 21, 6893-6896

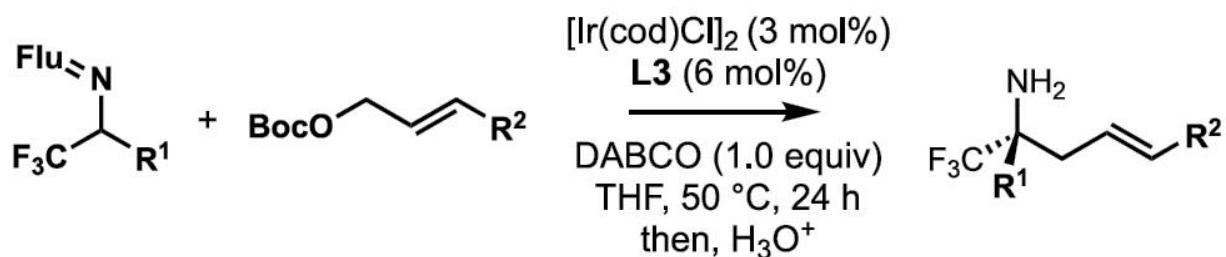


Catalytic Asymmetric Synthesis of α -Tetrasubstituted α -Trifluoromethyl Homoallylic Amines by Ir-Catalyzed Umpolung Allylation of Imines

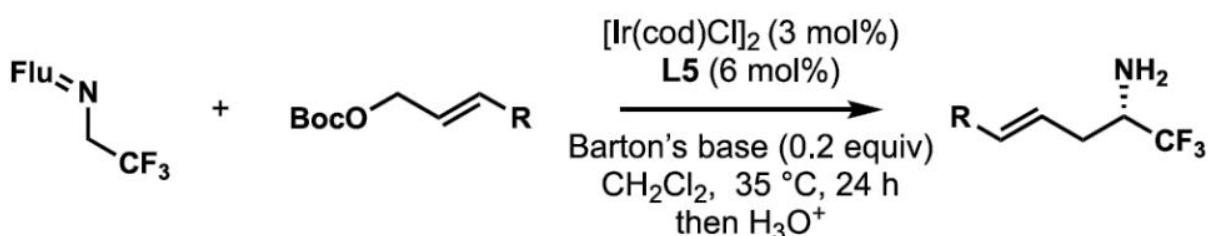
Yingwei Wang, Li-Fan Deng, Xia Zhang, and Dawen Niu

Org. Lett., 2019, 21, 6951-6958





18 examples
yield up to 73%
ee up to 90%



16 examples
yield up to 90%
ee up to 95%

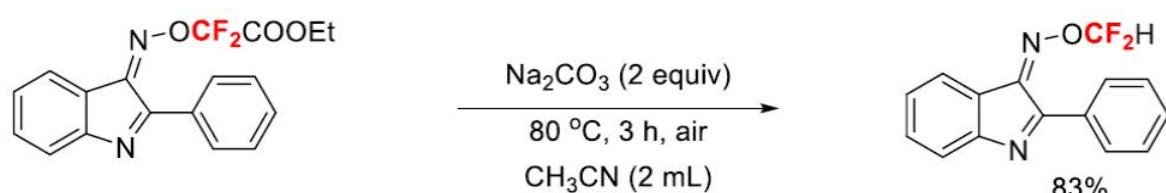
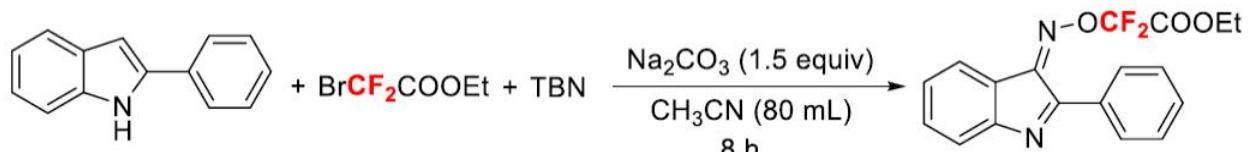
tert-Butyl Nitrite Mediated Synthesis of Fluorinated O-Alkyloxime Ether Derivatives

Xingxing Ma and Qiuling Song

Org. Lett., 2019, 21, 7375-7379



7 examples
yield up to 83%

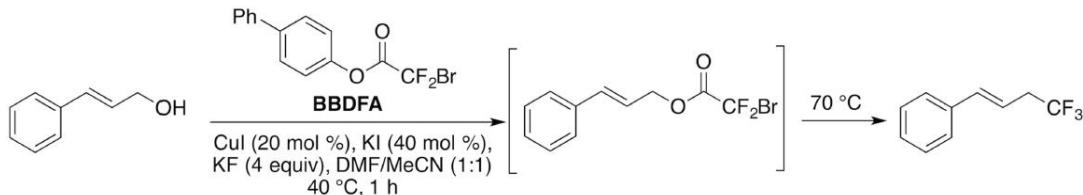


Organic Process Research & Development

BBDFA: A Practical Reagent for Trifluoromethylation of Allylic and Benzylic Alcohols on Preparative Scale

Chong Han, Lady Mae Alabanza, Sean M. Kelly, Douglas L. Orsi, Francis Gosselin, and Ryan A. Altman

Org. Process Res. Dev., 2019, 23, 1695-1702

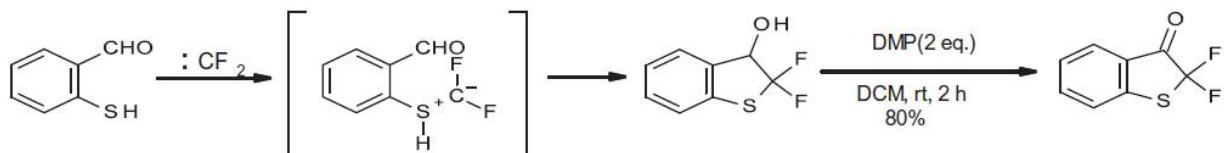


Synthetic Communications

Synthesis of 2,2-difluoro-3*H*-benzothiophen-3-ol via a difluorocarbene insertion reaction, investigating the scope for further derivatization

Clarence Rodrigues, Roger G. Hall, Mark Montgomery, Xiuhua Yang, Yong Xiang, Long Lu, Sitaram Pal, and Bhanu N. Manjunath

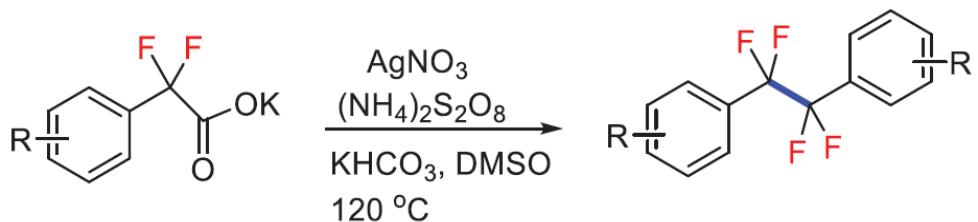
Synthetic Communications, 2019, 49, 1997-2004



Silver-catalyzed decarboxylative homocoupling reaction for the construction of tetrafluoroethylene-bridging aromatic compounds

Yong Wang, Huixin Zhao, Xiaojuan Xie, Haizhen Jiang, Hongmei Deng, Jian Haoa, and Wen Wana

Synthetic Communications, 2019, 49, 2961-2970



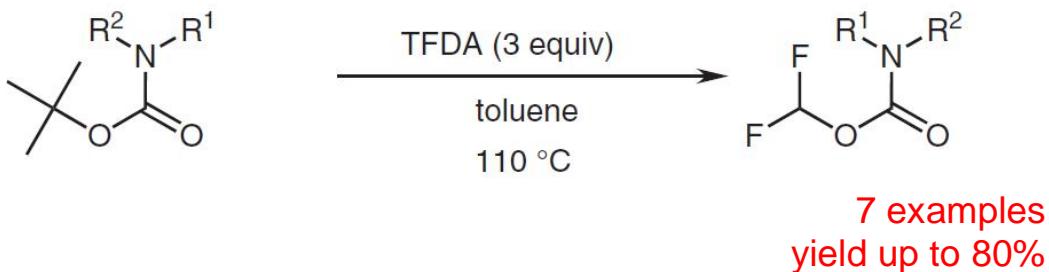
15 examples
yield up to 85%

Synthesis

Reactions of *t*-Boc-Protected Amines with Difluorocarbene

Gerasov, Andrii; Shivanyuk, Alexander; Fetyukhin, Volodymyr; Lukin, Oleg

Synthesis, 2019, 51, 2579-2582



A Practical, Large-Scale Synthesis of *p*-(Difluoroiodo)toluene (*p*-TolIF₂)

Tao, Jason; Murphy, Graham K.

Synthesis, 2019, 51, 3055-3059

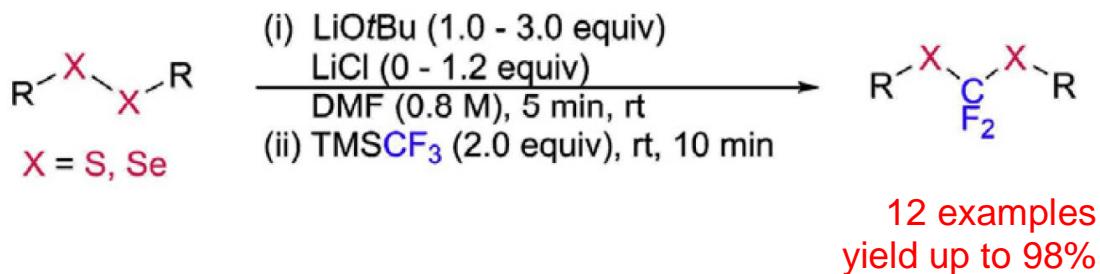


Tetrahedron

One-pot preparation of (RSe)₂CF₂ and (RS)₂CF₂ compounds via insertion of TMSCF₃-derived difluorocarbene into diselenides and disulfides

Colby Barrett, Vinayak Krishnamurti, Artur Pratas Oliveira, G.K. Surya Prakash

Tetrahedron 2019, 75, 4167-4173



Tetrahedron Letters

Nucleophilic fluoroalkylation of terminal vinyl triflones with SO_2CF_3 as a removable activating group

Ping-ping Tian, Hong-qing Xiao, Lu Wang, Yingxin Yu, Yangen Hu

Tetrahedron Letters 2019, 60, 1015-1018

