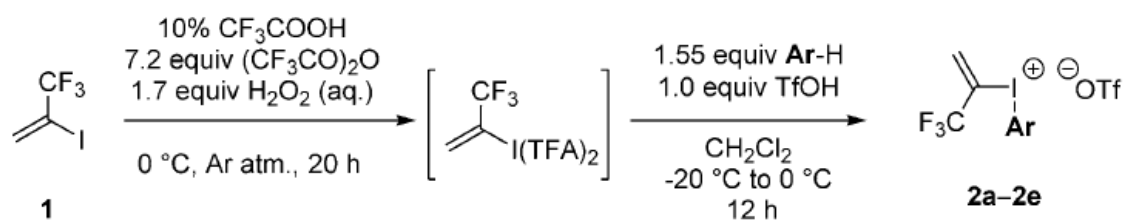


Angewandte Chemie International Edition

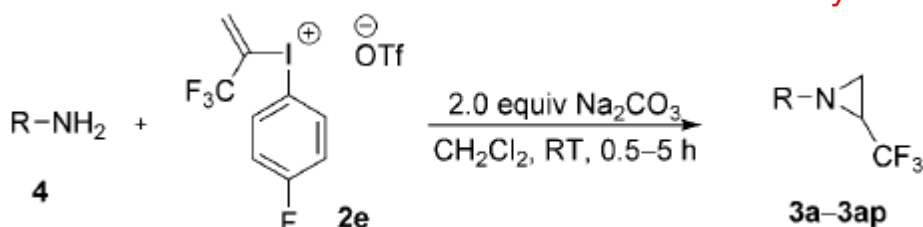
Design of Trifluoroalkenyl Iodonium Salts for a Hypervalency-Aided Alkenylation–Cyclization Strategy: Metal-Free Construction of Aziridine Rings.

Ádám Mészáros, Anna Székely, András Stirling, and Zoltán Novák

Angew. Chem. Int. Ed., 2018, 57, 6643-6647



yield up to 99%

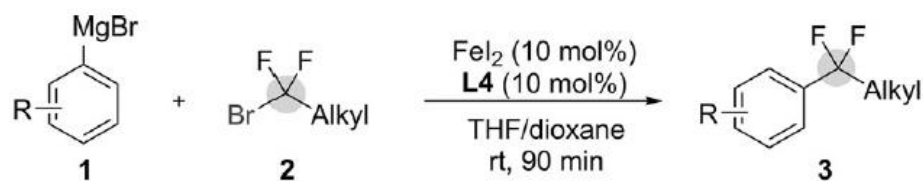


42 examples
yield 35–100%

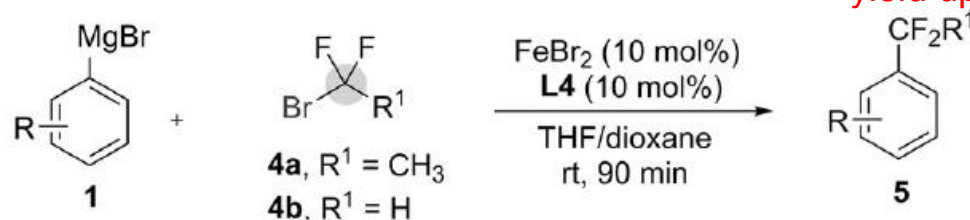
Bulky Diamine Ligand Promotes Cross-Coupling of Difluoroalkyl Bromides by Iron Catalysis

Lun An, Yu-Lan Xiao, Shu Zhang, and Xingang Zhang

Angew. Chem. Int. Ed., 2018, 57, 6921-6925



42 examples
yield up to 90%

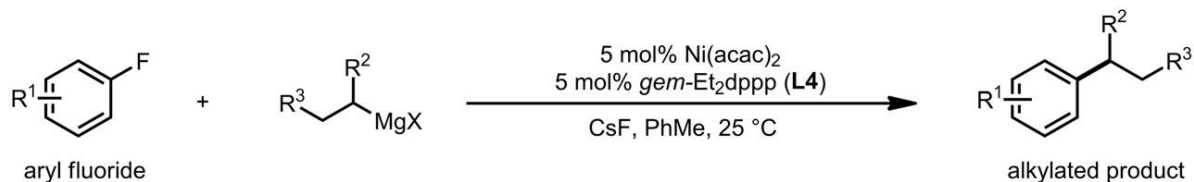


12
examples
yield up to 93%

Thorpe–Ingold Effect in Branch-Selective Alkylation of Unactivated Aryl Fluorides

Matthew J. O'Neill, Tim Riesebeck, and Josep Cornella

Angew. Chem. Int. Ed., 2018, 57, 9103-9107



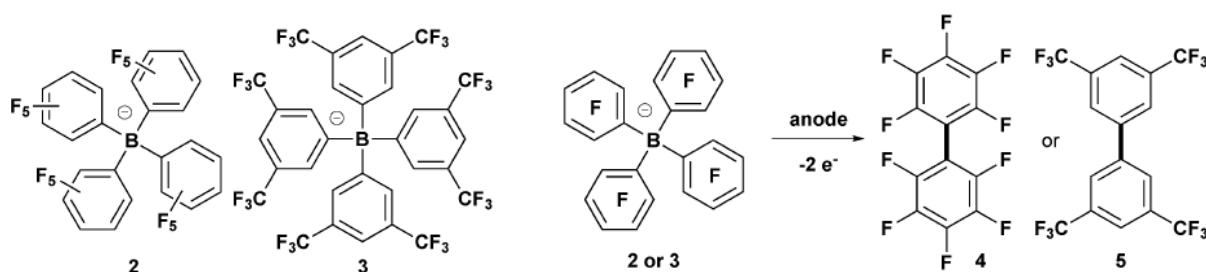
28 examples
yield up to 93%

Chemical Communications

Electrochemical instability of highly fluorinated tetraphenyl borates and syntheses of their respective biphenyls

Sebastian B. Beil, Sabine Möhle, Patrick Enders and Siegfried R. Waldvogel

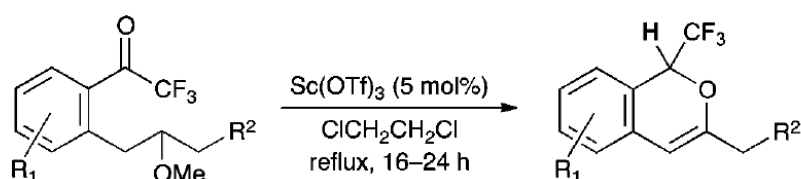
Chem. Commun., 2018, 54, 6128-6131



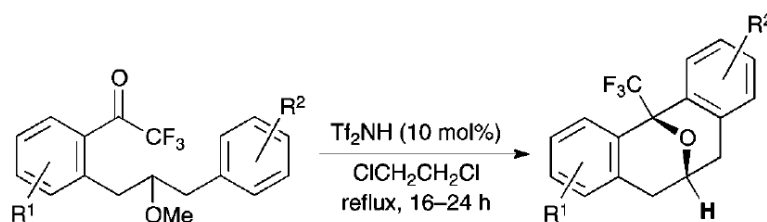
Divergent synthesis of CF₃-substituted polycyclic skeletons based on control of activation site of acid catalysts

Kazuma Yokoo and Keiji Mori

Chem. Commun., 2018, 54, 6927-6930



11 examples
yield up to 98%

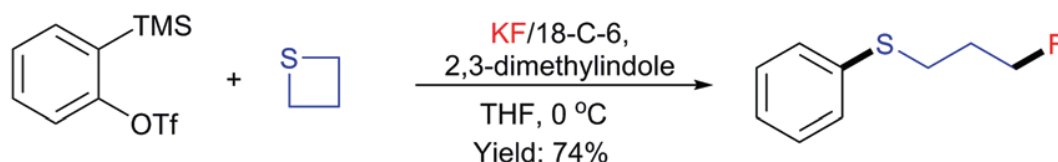


8 examples
yield up to 98%

An aryne triggered ring-opening fluorination of cyclic thioethers with potassium fluoride

Rong Fan, Binbin Liu, Tianyu Zheng, Kun Xu, Chen Tan, Tianlong Zeng, Shuaisong Su and Jiaying Tan

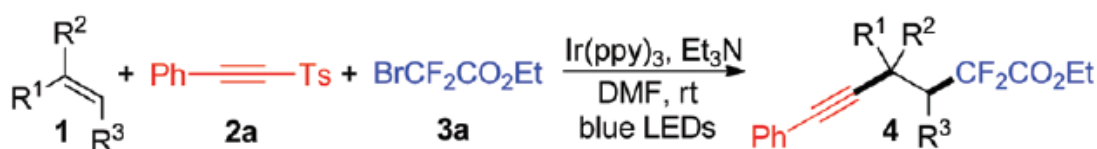
Chem. Commun., 2018, 54, 7081-7084



Visible-light induced three-component alkynyldifluoroalkylation of unactivated alkenes

Weiwei Jin, Mingchang Wu, Zhimin Xiong and Gangguo Zhu

Chem. Commun., 2018, 54, 7924-7927

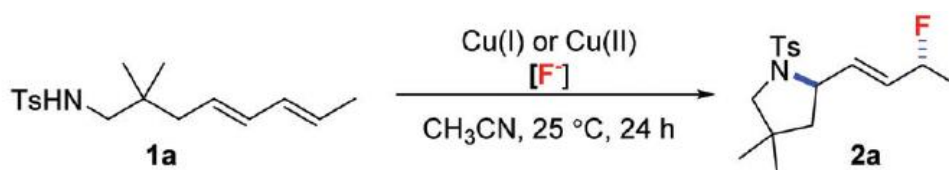


17 examples
yield up to 78%

Copper-mediated intramolecular aminofluorination of 1,3-dienes by using nucleophilic fluorine reagents

Zuxiao Zhang, Pinhong Chen and Guosheng Liu

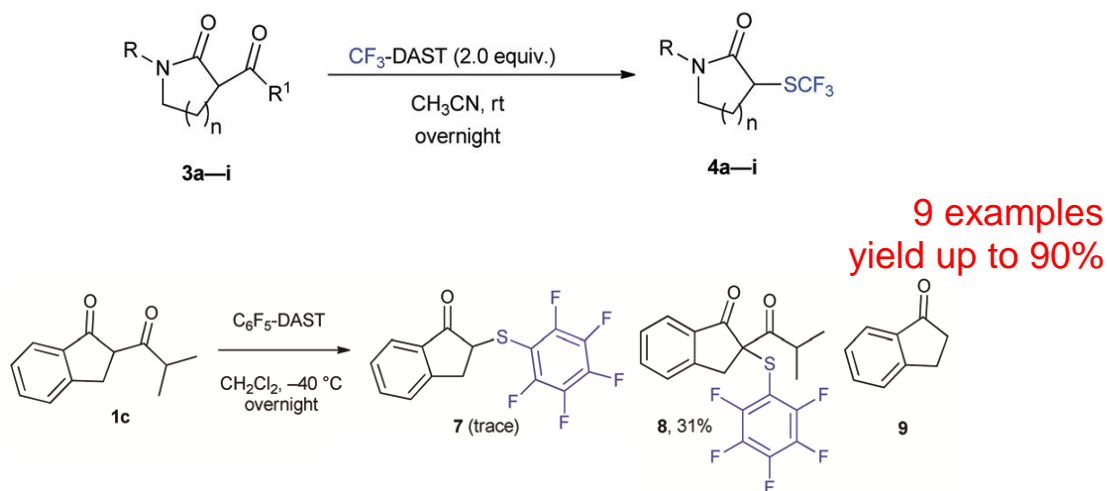
Chem. Commun., 2018, 54, 8709-8712



The CF₃-DAST-induced deacylative trifluoromethylthiolation of cyclic 1,3-diketones/lactams/lactones and its extension to deacylative pentafluorophenylthiolation

Ibrayim Saidalimu, Takuya Yoshioka, Yumeng Liang, Etsuko Tokunaga and Norio Shibata

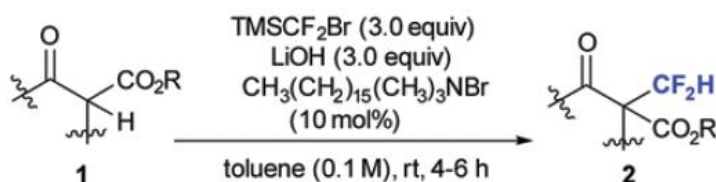
Chem. Commun., 2018, 54, 8761-8764



Highly C-selective difluoromethylation of β-ketoesters by using TMSCF₂Br/lithium hydroxide/N,N,N-trimethylhexadecan-1-ammonium bromide

Jiandong Wang, Etsuko Tokunaga and Norio Shibata

Chem. Commun., 2018, 54, 8881-8884

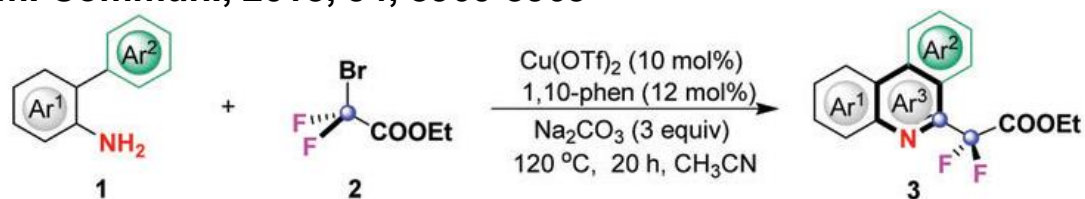


21 examples
yield up to 88%

Dual role of ethyl bromodifluoroacetate in the formation of fluorine-containing heteroaromatic compounds

Xingxing Ma, Shaoyu Mai, Yao Zhou, Gui-Juan Cheng and Qiuling Song

Chem. Commun., 2018, 54, 8960-8963

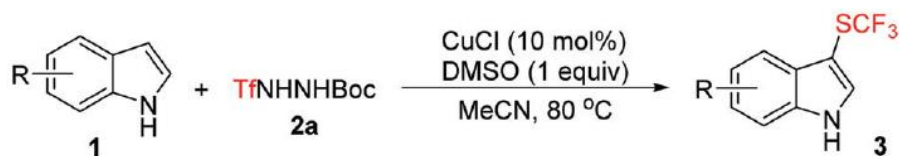


29 examples
yield up to 88%

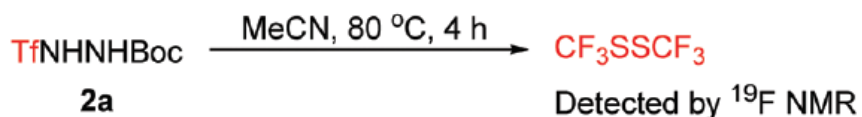
TfNHNHBoc as a SCF₃ source for the sulfenylation of indoles

Jing-Yu Guo, Rui-Han Dai, Wen-Cong Xu, Ruo-Xin Wu and Shi-Kai Tian

Chem. Commun., 2018, 54, 8980-8982



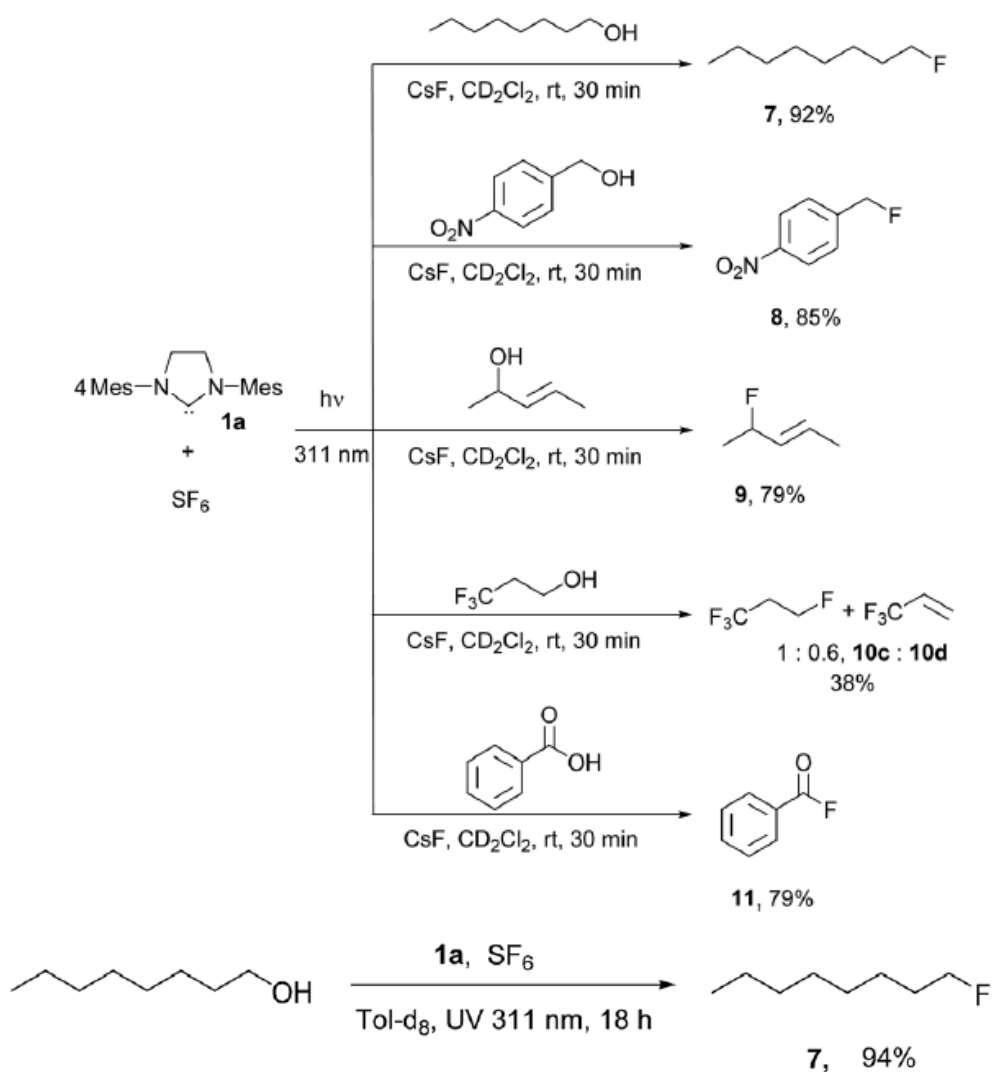
30 examples
yield up to 86%



Photochemical activation of SF₆ by N-heterocyclic carbenes to provide a deoxyfluorinating reagent

Pooja Tomar, Thomas Braun and Erhard Kemnitz

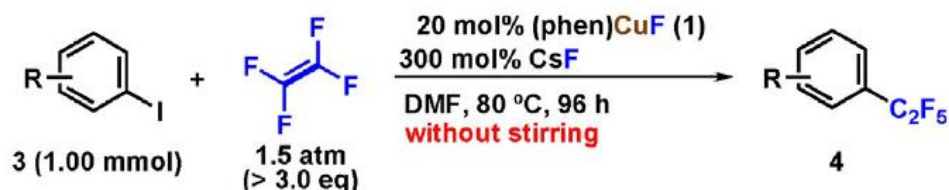
Chem. Commun., 2018, 54, 9753-9756



Cu^I-Catalyzed Pentafluoroethylation of Aryl Iodides in the Presence of Tetrafluoroethylene and Cesium Fluoride: Determining the Route to the Key PentafluoroethylCu^I Intermediate

Masato Ohashi, Naoyoshi Ishida, Kota Ando, Yu Hashimoto, Anna Shigaki, Kotaro Kikushima, and Sensuke Ogoshi

Chem. Eur. J., 2018, 24, 9794-9798

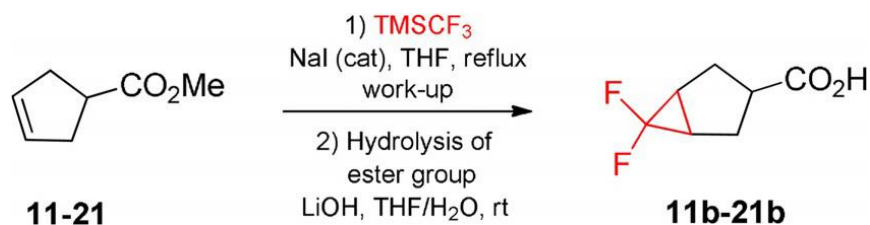


21 examples
yield up to 97%

Synthesis of Functionalized Difluorocyclopropanes: Unique Building Blocks for Drug Discovery

Roman M. Bychek, Vadym V. Levterov, Iryna V. Sadkova, Andrey A. Tolmachev, and Pavel K. Mykhailiuk

Chem. Eur. J., 2018, 24, 12291-12297

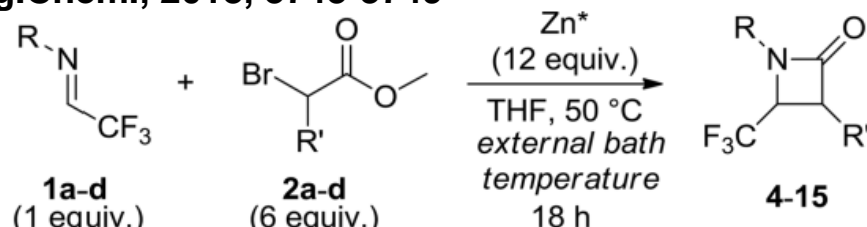


21 examples
yield up to 89%

Selective Synthesis of Trifluoromethyl β -Lactams by a Zn-Promoted 2-Bromo Ester Addition on C-CF₃-Substituted Aldimines

Laura Trulli, Venanzio Raglione, and Stefania Fioravanti

Eur. J. Org.Chem., 2018, 3743-3749

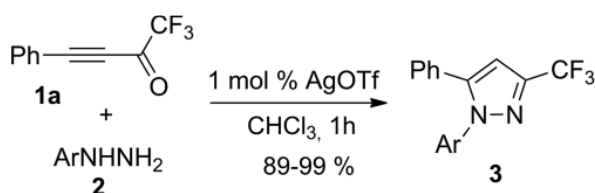


7 examples
yield up to 80%

Mild and Regioselective Synthesis of 3-CF₃-Pyrazoles by the AgOTf-Catalysed Reaction of CF₃-Ynones with Hydrazines

Maxim A. Topchiy, Daria A. Zharkova, Andrey F. Asachenko, Vasiliy M. Muzalevskiy, Vyacheslav A. Chertkov, Valentine G. Nenajdenko, and Mikhail S. Nechaev

Eur. J. Org.Chem., 2018, 3750-3755

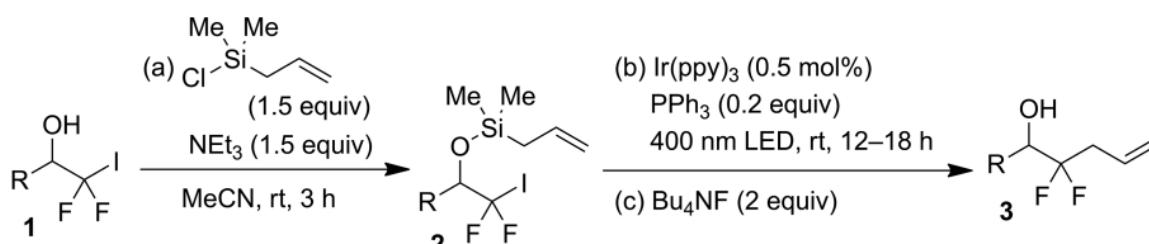


13 examples
yield up to 99%

Light-Promoted Allylation of Iododifluoromethylated Alcohols

Liubov I. Panferova, Marina I. Struchkova, and Alexander D. Dilman

Eur. J. Org.Chem., 2018, 3834-3836



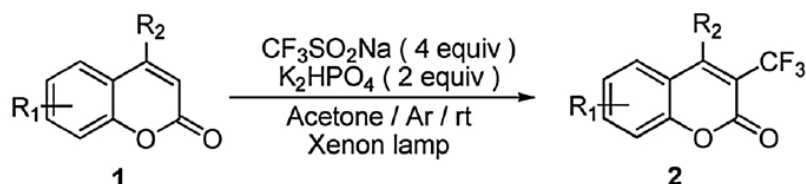
15 examples
yield up to 90%

Journal of Fluorine Chemistry

A green and transition-metal-free light-mediated trifluoromethylation reaction of coumarins

Na Lin, Yaming Li, Xinyu Hao, Kun Jin, Rong Zhang, Chunying Duan

J. Fluor. Chem., 2018, 214, 42-47.



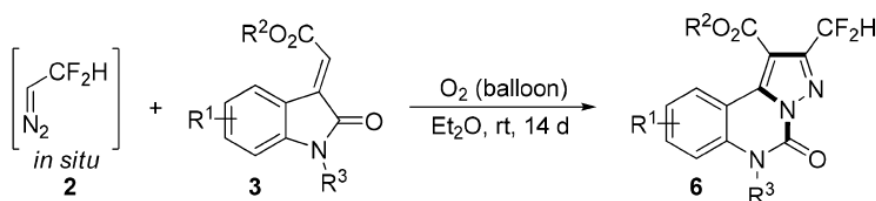
16 examples
yield up to 70%

Journal of Organic Chemistry

A Protocol for the Synthesis of CF_2H -Containing Pyrazolo[1,5-*c*]quinazolines from 3-Ylideneoxindoles and in Situ Generated CF_2HCHN_2

Wen-Yong Han, Jian-Shu Wang, Jia Zhao, Lin Long, Bao-Dong Cui, Nan-Wei Wan, and Yong-Zheng Chen

J. Org. Chem., 2018, 83, 6556-6565

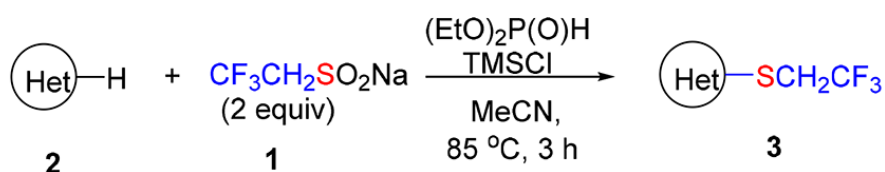


16 examples
yield up to 85%

Metal-Free Electrophilic Trifluoroethylthiolation with $\text{NaSO}_2\text{CH}_2\text{CF}_3$

Rongkang Wang, Lvqi Jiang, and Wenbin Yi

J. Org. Chem., 2018, 83, 7789-7798

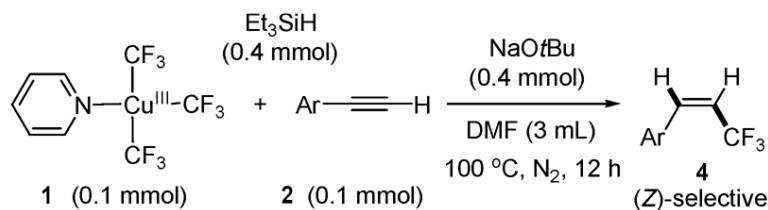


21 examples
yield up to 91%

Cu(III)–CF₃ Complex Enabled Unusual (Z)-Selective Hydrotrifluoromethylation of Terminal Alkynes

Song-Lin Zhang and Chang Xiao

J. Org. Chem., 2018, 83, 10908-10915

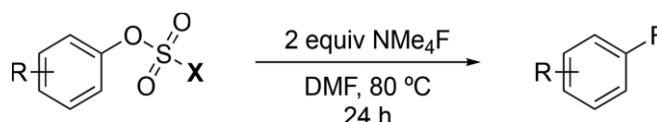


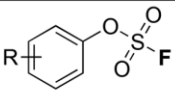
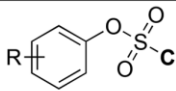
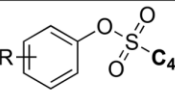
18 examples
yield up to 74%

Reactions of Arylsulfonate Electrophiles with NMe₄F: Mechanistic Insight, Reactivity, and Scope

Sydonie D. Schimler, Robert D. J. Froese, Douglas C. Bland, and Melanie S. Sanford

J. Org. Chem., 2018, 83, 11178-11190



entry	R =	 (OFs)	 (OTf)	 (ONf)
1	<i>m</i> -F (1)	80	76	53
2	<i>p</i> -CN (2)	92	66	73
3	<i>p</i> -Cl (3)	75	85	64
4	<i>p</i> -Ph (4)	77	87	53
5	<i>p</i> -OPh (5)	29	34	13

Mendelev Communciations

Aza-Henry reaction with trifluoropiruvate ketimines

Irina V. Kutovaya, Olga I. Shmatova and Valentine G. Nenajdenko

Mendelev Communc., 2018, 28, 133-134.

