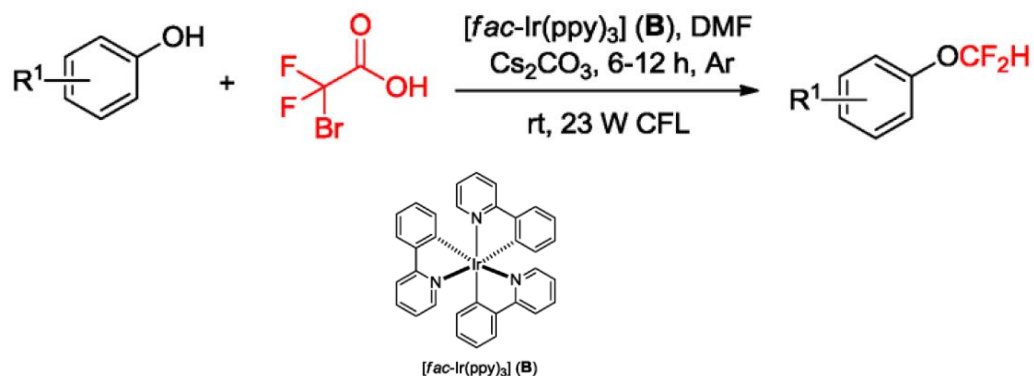


Organic Letters

Visible-Light Photoredox Difluoromethylation of Phenols and Thiophenols with Commercially Available Difluorobromoacetic Acid

Jinyan Yang, Min Jiang, Yunhe Jin, Haijun Yang, and Hua Fu

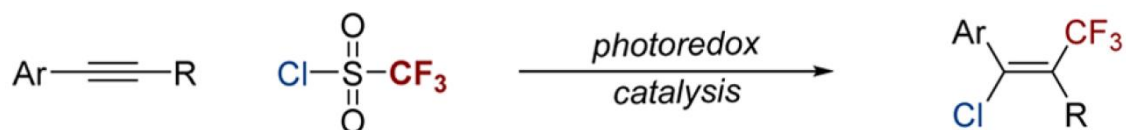
Org. Lett. 2017, 19, 2758-2761



Stereoselective Photoredox-Catalyzed Chlorotrifluoromethylation of Alkynes: Synthesis of Tetrasubstituted Alkenes

Hong Sik Han, Young Jin Lee, Young-Sik Jung, and Soo Bong Han

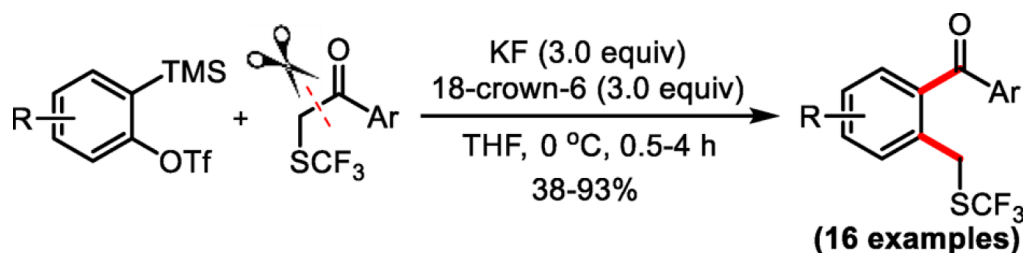
Org. Lett. 2017, 19, 1962-1965



Synthesis of *o*-Methyl Trifluoromethyl Sulfide Substituted Benzophenones via 1,2-Difunctionalization of Aryne by Insertion into the C–C Bond

Milind M. Ahire, Ruhima Khan, and Santosh B. Mhaske

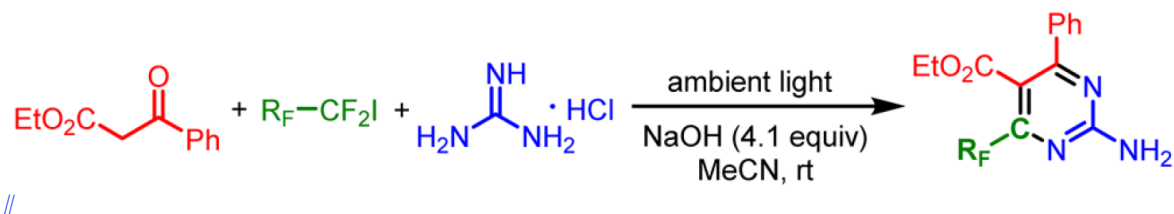
Org. Lett. 2017, 19, 2134-2137



Ambient-Light-Promoted Three-Component Annulation: Synthesis of Perfluoroalkylated Pyrimidines

Rui Wang, Wei Guan, Zheng-Bo Han, Fushun Liang, Takeo Suga, Xihe Bi, and Hiroyuki Nishide

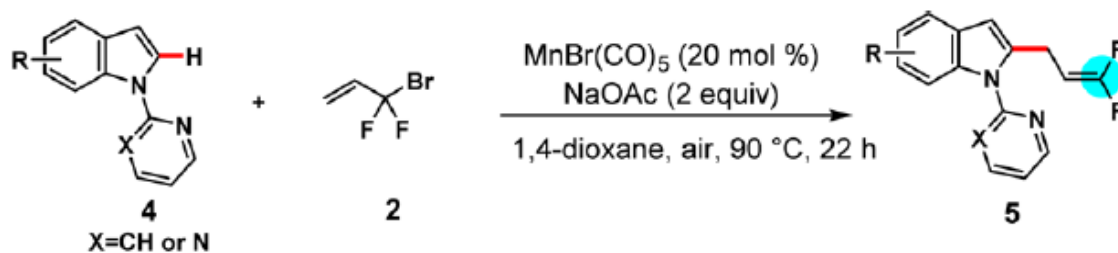
Org. Lett. 2017, 19, 2358-2361



Manganese(I)-Catalyzed C-H 3,3-Difluoroallylation of Pyridones and Indoles

Jiabin Ni, Hongchuan Zhao, and Ao Zhang

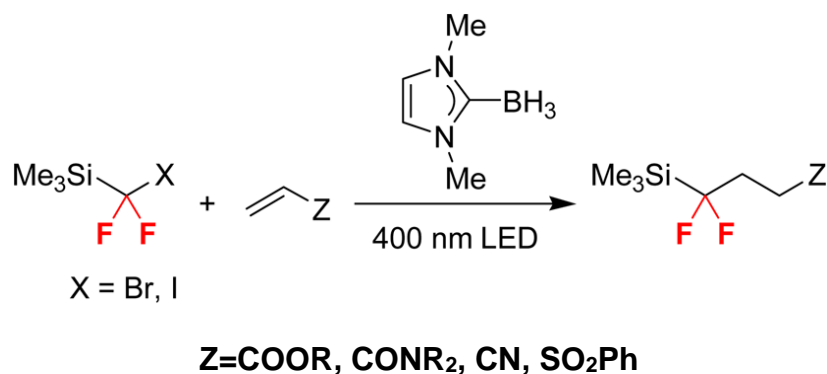
Org. Lett. 2017, 19, 3159-3162



Radical Silyldifluoromethylation of Electron-Deficient Alkenes

Vyacheslav I. Supranovich, Vitalij V. Levin, Marina I. Struchkova, Alexander A. Korlyukov, and Alexander D. Dilman

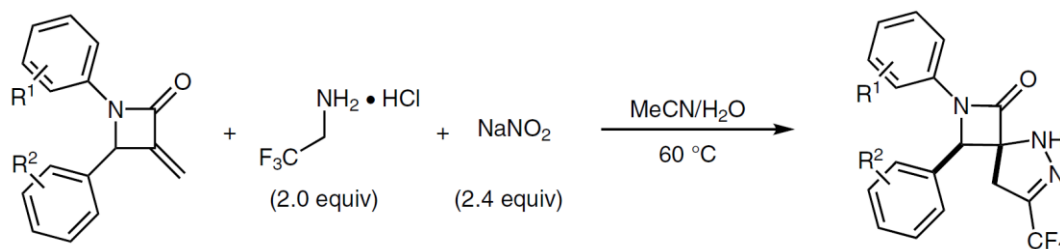
Org. Lett. 2017, 19, 3215-3218



**Thieme Chemistry Journals Awardees – Where Are They Now?
Stereoselective Cycloaddition of 2,2,2-Trifluorodiazoethane with
 α -Methylene- β -lactams: Facile Synthesis of Trifluoromethyl-
Substituted Spirocyclic β -Lactams**

Shen Li, Wen-Jie Cao, and Jun-An Ma

Synlett, 2017, 28, 673-678

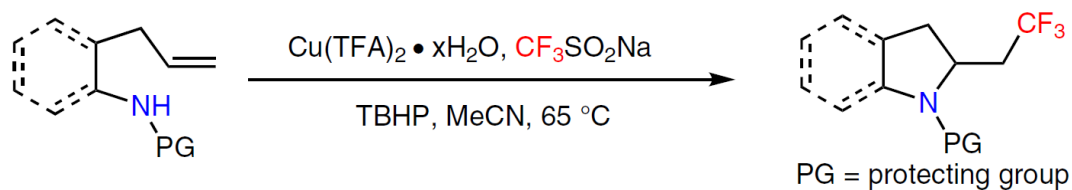


**15 examples
yield 83-95%**

**Copper-Promoted Intramolecular Aminotrifluoromethylation of
Alkenes with Langlois Reagent as the Trifluoromethyl Source**

Hong-Yu Zhang, We nge Huo, Chao Ge, Jiquan Zhao, and Yuecheng Zhang

Synlett, 2017, 28, 962-965



- 1. inexpensive CF₃ source; gram-scale reaction
- 2. various substrates: indoline, pyrrolidine and lactam

18 examples
30–76% yield

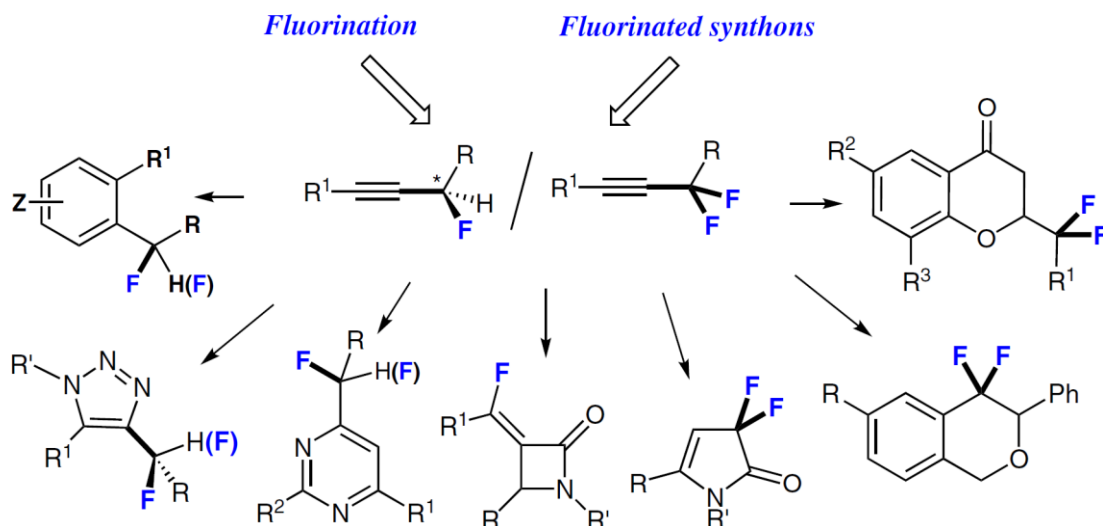
Synthesis

Synthesis of Propargylic Fluorides toward Carbo- and Heterocycles with Mono- and *gem*-Difluorinated Side Chains

Ali Hachem, Danielle Grée, Srivari Chandrasekhar, René Grée

Synthesis, 2017, 49, 2101-2116

Review

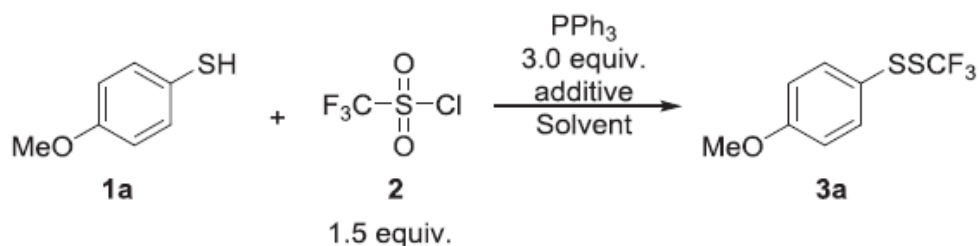


Tetrahedron

Transition-metal-free trifluoromethylthiolation and difluoromethylthiolation of thiols with trifluoromethanesulfonyl chloride and difluoromethanesulfonyl chloride

Xia Zhao, Tianjiao Li, Bo Yang, Di Qiu, Kui Lu

Tetrahedron 2017, 73, 3112-3117

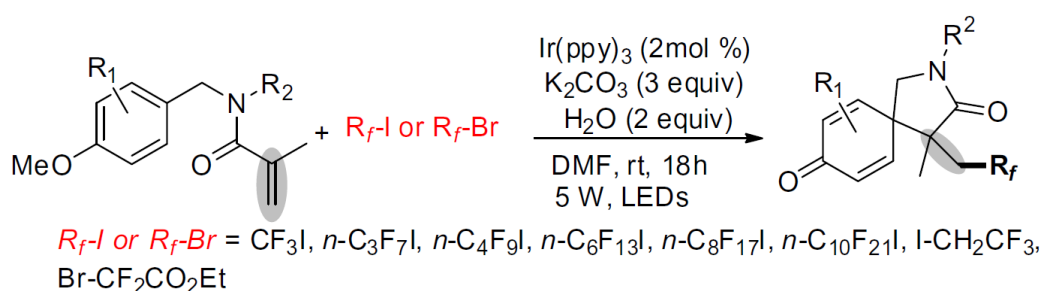


Tetrahedron Letters

Visible-light-induced dearomative spirocyclization of N-benzylacrylamides toward perfluorinated azaspirocyclic cyclohexadienones

Shi Tang, Li Yuan, Zeng-Zeng L., Zhi-Yuan Peng, You-Lin Deng, Liang-Neng Wan, Gui-Xiu Huang, Rui-Long Sheng

Tetrahedron Letters 2017, 58, 2127-2130

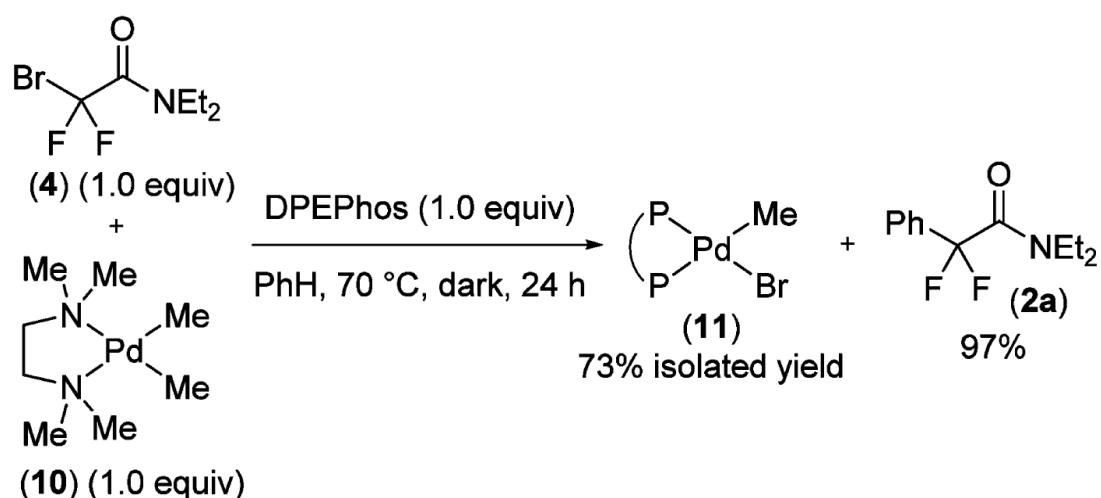


Organometallics

Evidence for Single-Electron Pathways in the Reaction between Palladium(II) Dialkyl Complexes and Alkyl Bromides under Thermal and Photoinduced Conditions

Thomas L. Andersen, Søren Kramer, Jacob Overgaard, and Troels Skrydstrup

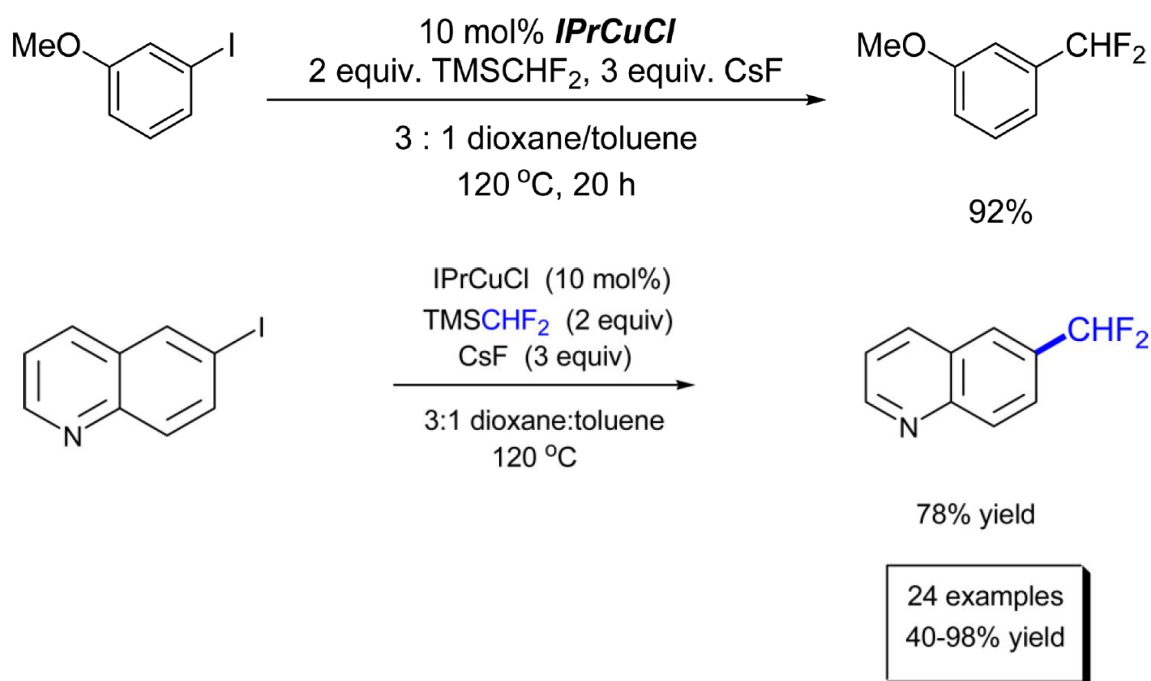
Organometallics, 2017, 36, 2058-2066



Synthesis, Reactivity, and Catalytic Applications of Isolable (NHC)Cu(CHF₂) Complexes

James R. Bour, Stavros K. Kariofillis, and Melanie S. Sanford

Organometallics, 2017, 36, 1220-1223

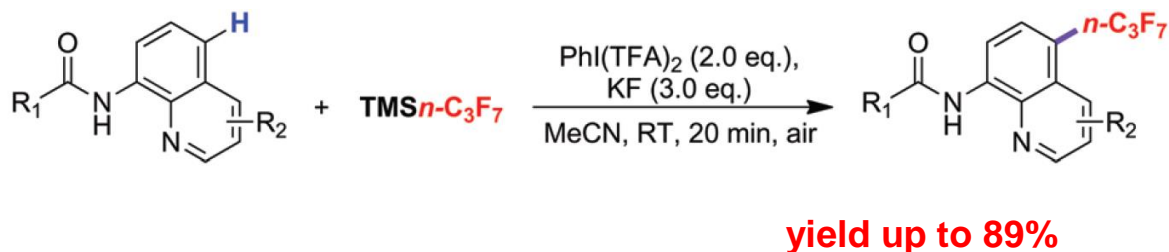


Organic Chemistry Frontiers

Transition-metal-free direct perfluoroalkylation of quinoline amides at C5 position through radical cross-coupling under mild conditions

Jun Xu, Li Qiao, Beibei Ying, Xiaolei Zhu, Chao Shen and Pengfei Zhang

Org. Chem. Front., 2017, 4, 1116-1120



Opening of the Pyridine Ring in the System 1,1,1-Trifluoro-4-phenylbut-3-yn-2-one–Water. Stereoselective Synthesis of 5-[[[(1Z)-4,4,4-Trifluoro-3-oxo-1-phenylbut-1-en-1-yl]amino]penta-2,4-dienal

L. V. Andriyankova, L. P. Nikitina, K. V. Belyaeva, A. G. Mal'kina, A. V. Afonin, V. M. Muzalevskii, V. G. Nenaidenko, and B. A. Trofimov*

Russ. J. Org. Chem., 2016, 52 (2), 1857–1860.

РАСКРЫТИЕ ПИРИДИНОВОГО КОЛЬЦА В СИСТЕМЕ ТРИФТОРАЦЕТИЛ-(ФЕНИЛ)АЦЕТИЛЕН-ВОДА: СТЕРЕОСЕЛЕКТИВНЫЙ СИНТЕЗ 5-[[[(1Z)-3-ОКСО-1-ФЕНИЛ-4,4,4-ТРИФТОРБУТ-1-ЕН-1-ИЛ]АМИНО]ПЕНТА-2,4-ДИЕНАЛЯ

Андриянкова Л.В., Никитина Л.П., Беляева К.В., Малькина А.Г., Афонин А.В., Музалевский В.М., Ненайденко В.Г., Трофимов Б.А.

Журн. орг. химии. 2016, 52 (2), 1863-1865

