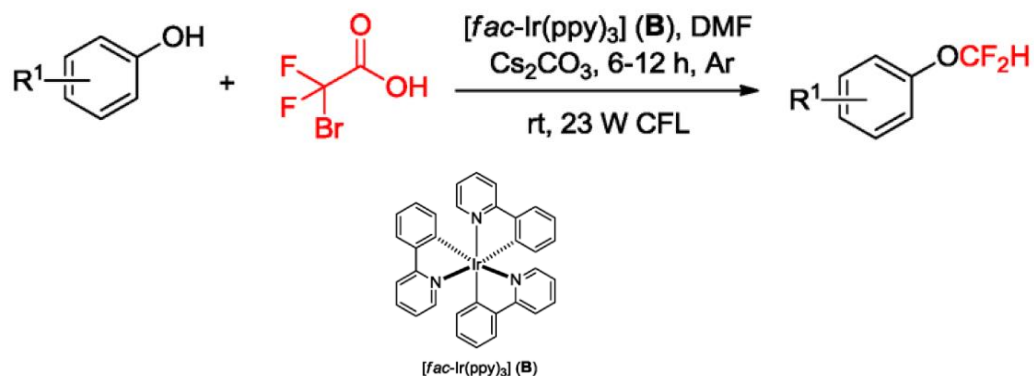


## Organic Letters

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

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

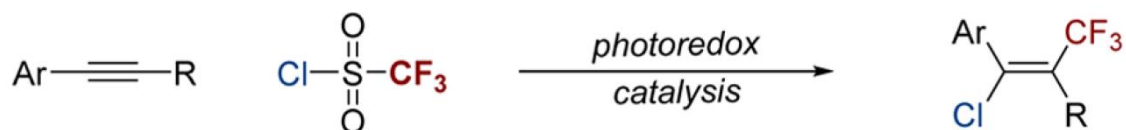
Org. Lett. 2017, 19, 2758-2761



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

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

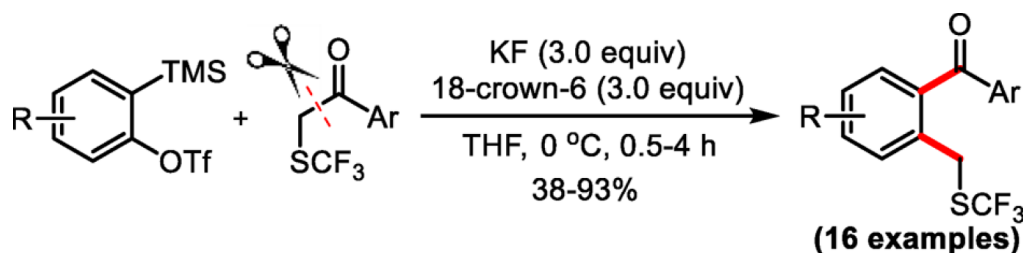
Org. Lett. 2017, 19, 1962-1965



### 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

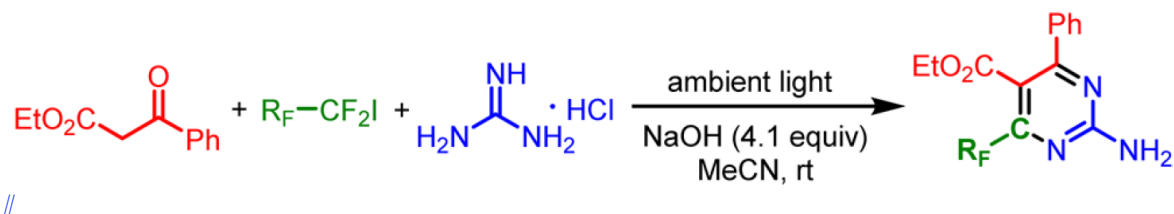
Org. Lett. 2017, 19, 2134-2137



## 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

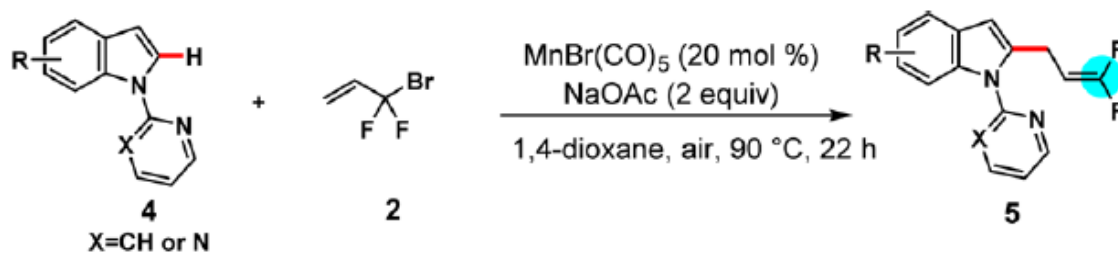
Org. Lett. 2017, 19, 2358-2361



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

Jiabin Ni, Hongchuan Zhao, and Ao Zhang

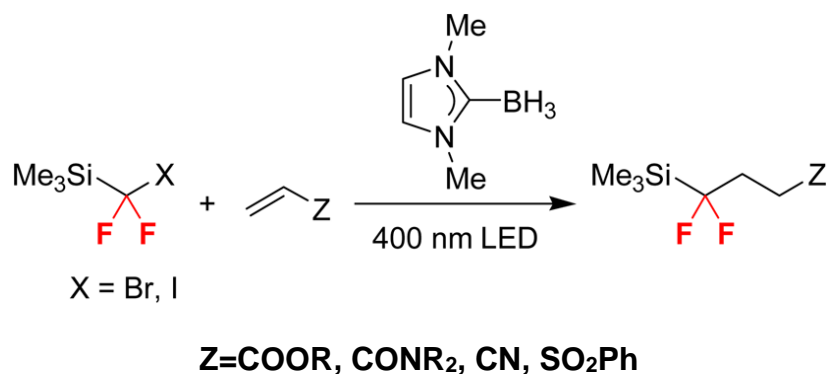
Org. Lett. 2017, 19, 3159-3162



## Radical Silyldifluoromethylation of Electron-Deficient Alkenes

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

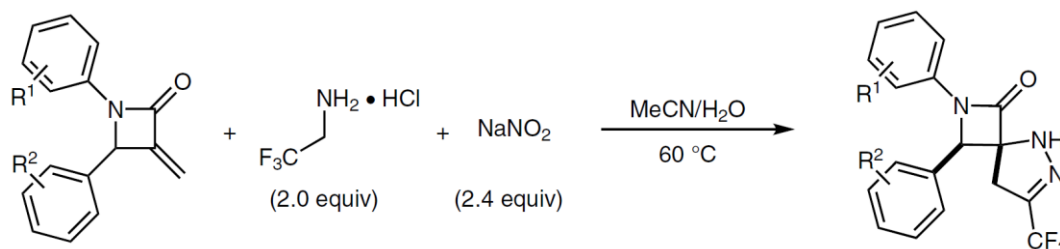
Org. Lett. 2017, 19, 3215-3218



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

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

Synlett, 2017, 28, 673-678

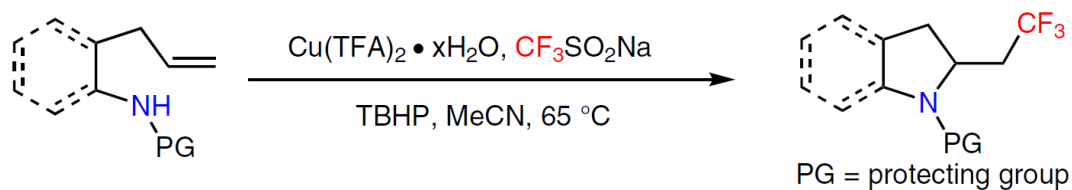


**15 examples  
yield 83-95%**

**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 CF<sub>3</sub> source; gram-scale reaction
- 2. various substrates: indoline, pyrrolidine and lactam

18 examples  
30–76% yield

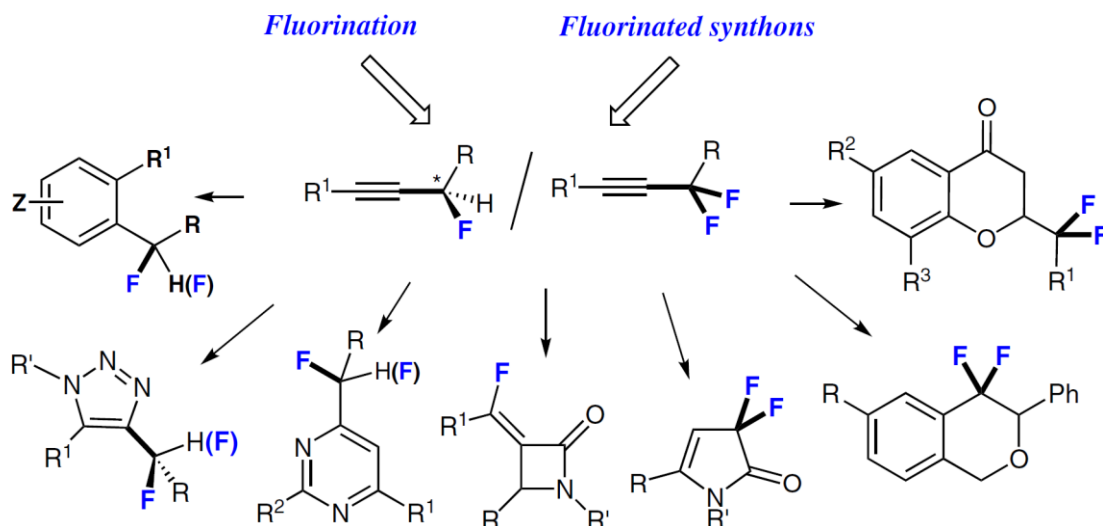
# Synthesis

## 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

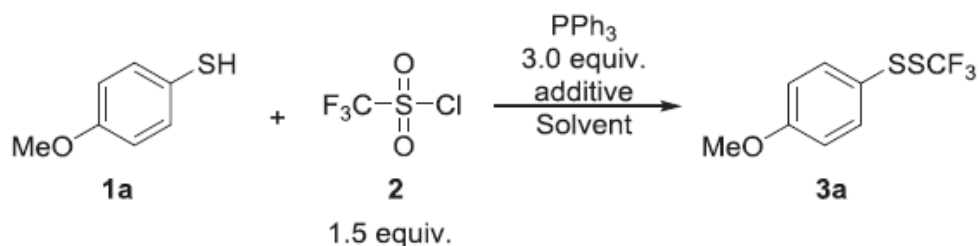


# Tetrahedron

## 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

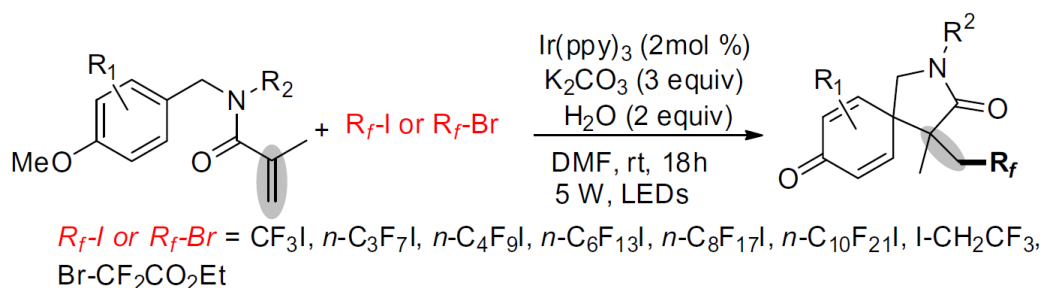


## Tetrahedron Letters

### 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**

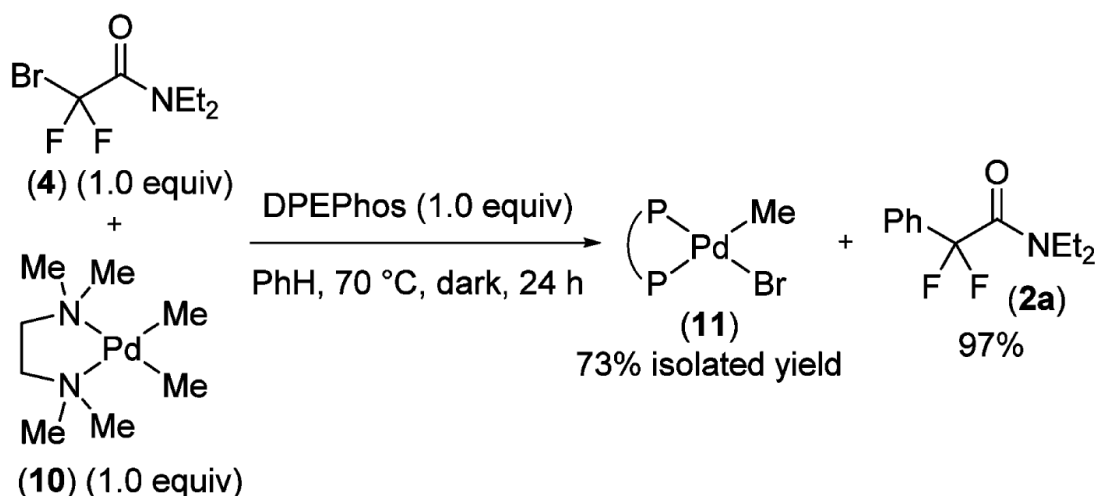


## Organometallics

### 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

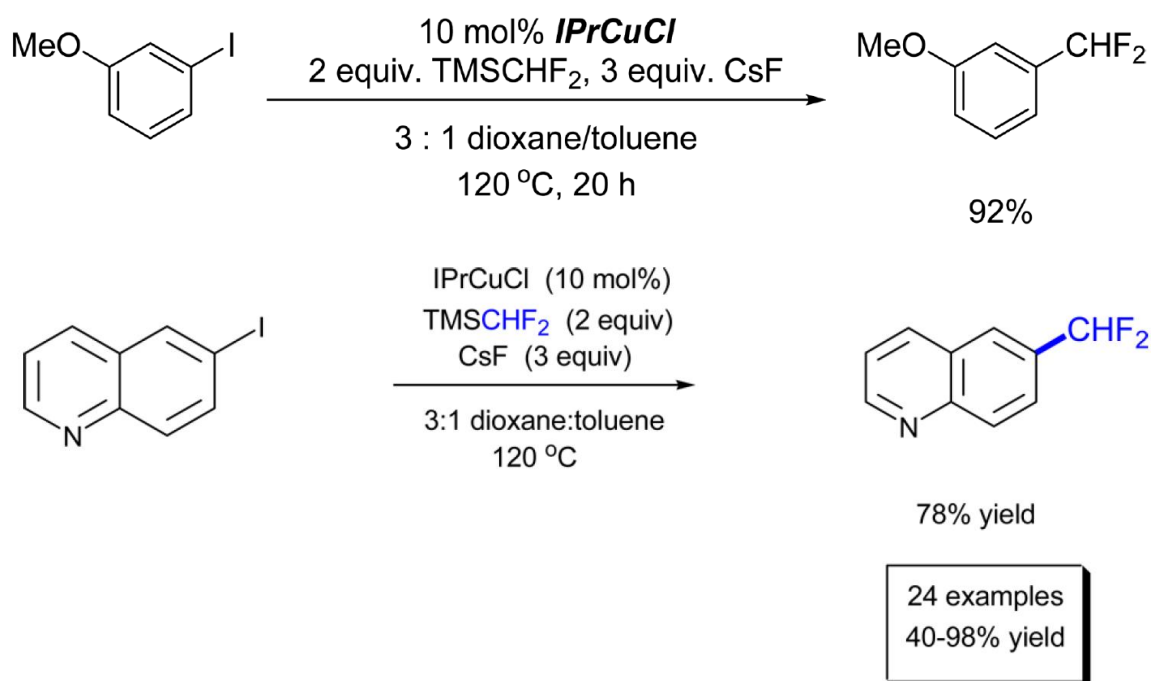
**Organometallics, 2017, 36, 2058-2066**



# Synthesis, Reactivity, and Catalytic Applications of Isolable (NHC)Cu(CHF<sub>2</sub>) Complexes

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

*Organometallics*, 2017, 36, 1220-1223

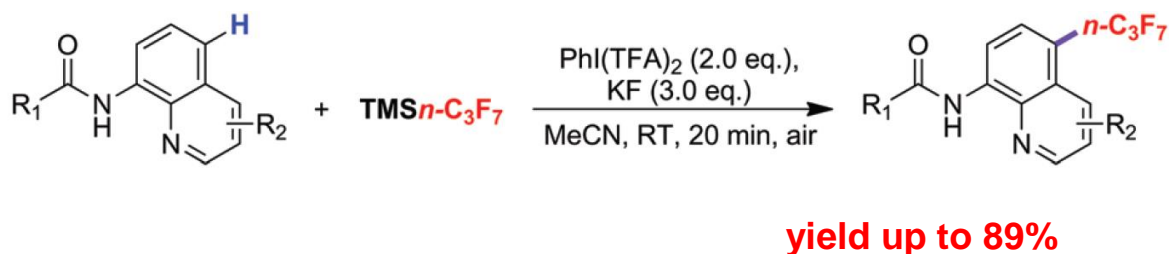


## Organic Chemistry Frontiers

### 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

