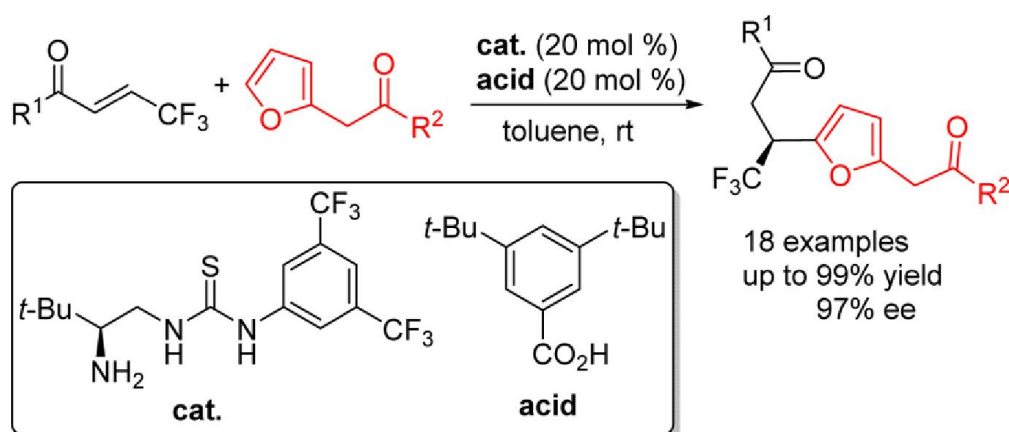


**Construction of Furan Derivatives with a Trifluoromethyl Stereogenic Center: Enantioselective Friedel–Crafts Alkylations via Formal Trienamine Catalysis**

Guang-Jun Yang, Wei Du, and Ying-Chun Chen

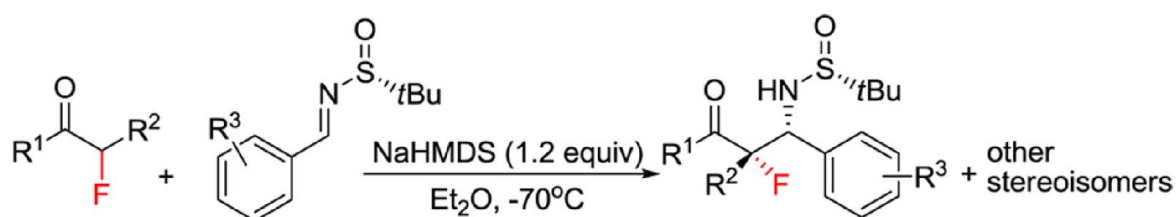
**J. Org. Chem., 2016, 81, 10056-10061**



**Diastereoselective Mannich Reactions Using Fluorinated Ketones: Synthesis of Stereogenic Carbon–Fluorine Units**

Ya Li, Xiang Li, Huaqi Shang, Xiangyu Chen, and Xinfeng Ren

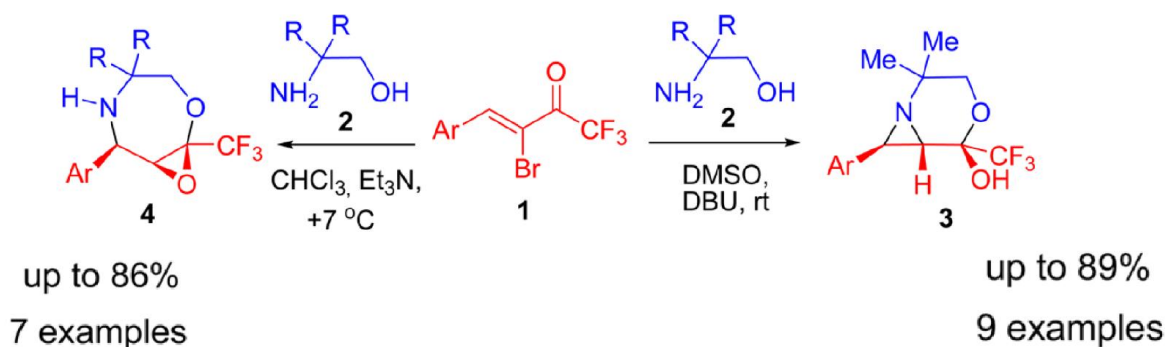
**J. Org. Chem., 2016, 81, 9858-9866.**



## Domino Assembly of Trifluoromethylated N,O-Heterocycles by the Reaction of Fluorinated $\alpha$ -Bromoenones with Amino Alcohols

Alexander Yu. Rulev, Alexey R. Romanov, Evgeniy V. Kondrashov, Igor A. Ushakov, Alexander V. Vashchenko, Vasilij M. Muzalevskiy, and Valentine G. Nenajdenko

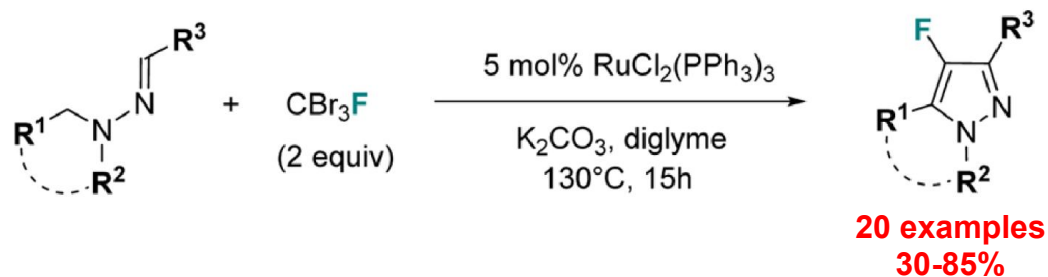
J. Org. Chem., 2016, 81, 10029-10034.



## Ruthenium-Catalyzed Tandem C-H Fluoromethylation/Cyclization of N-Alkylhydrazones with CBr<sub>3</sub>F: Access to 4-Fluoropyrazoles

Alexis Prieto, Didier Bouyssi, and Nuno Monteiro

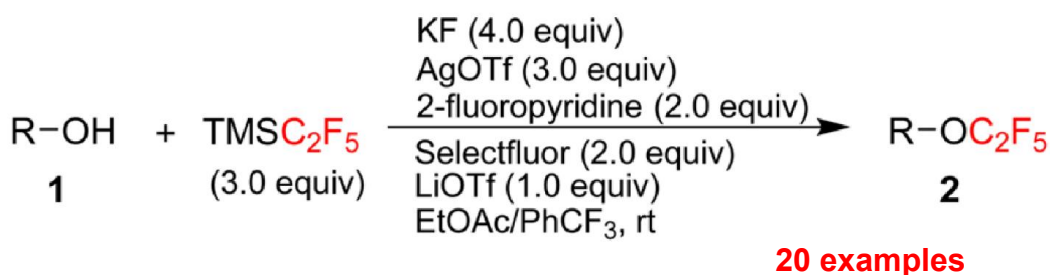
J. Org. Chem., 2017, 82, 3311-3316



## Synthesis of Pentafluoroethyl Ethers by Silver-Mediated Oxidative Pentafluoroethylation of Alcohols and Phenols

Mao-Lin Fu, Jian-Bo Liu, Xiu-Hua Xu, and Feng-Ling Qing

J. Org. Chem., 2017, 82, 3702-3709



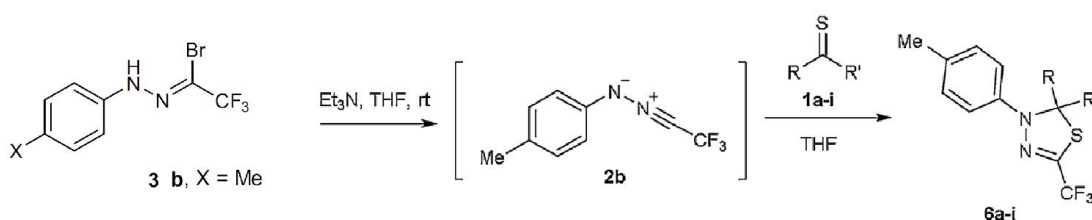
55-91%

## Journal of Fluorine Chemistry

### Trifluoromethylated 2,3-dihydro-1,3,4-thiadiazoles via the regioselective [3+2]-cycloadditions of fluorinated nitrile imines with aryl, hetaryl, and ferrocenyl thioketones

Grzegorz Mlostoń, Katarzyna Urbaniak, Greta Utecht, Dieter Lentz, Marcin Jasiński

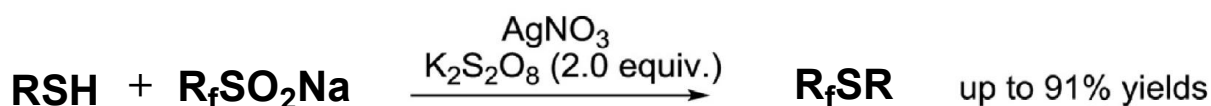
J.Fluor.Chem., 2016, 192,147-154.



### Silver-catalyzed fluoroalkylation of thiols using fluoroalkanesulfinates

Jing-jing Ma, Qi-ran Liu, Guo-ping Lu, Wen-bin Yi

J.Fluor.Chem., 2016, 193,113-117.



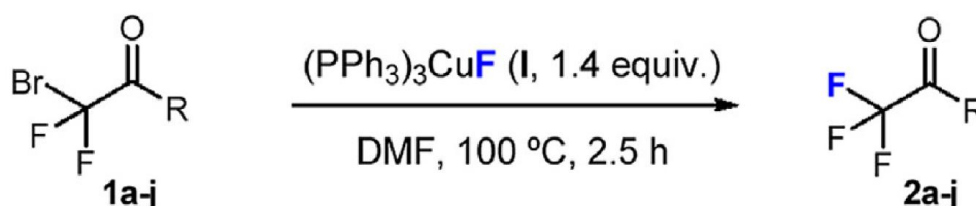
R=aryl, heteroaryl, alkyl

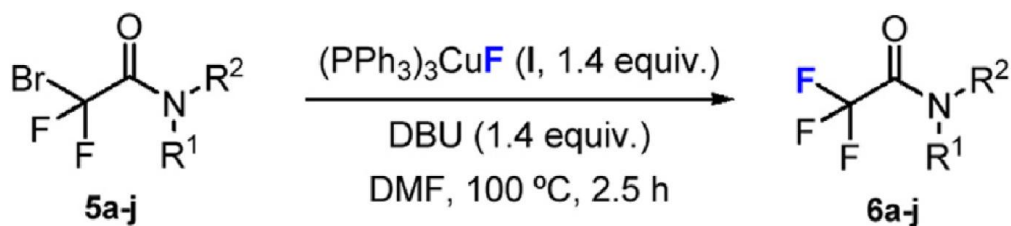
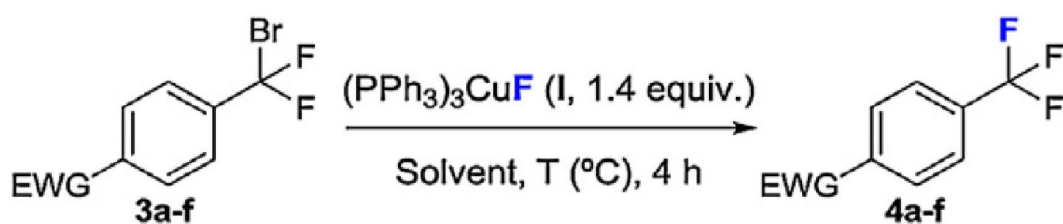
R<sub>f</sub> = CF<sub>3</sub>, CF<sub>2</sub>H, C<sub>2</sub>F<sub>5</sub>, C<sub>4</sub>F<sub>9</sub>, C<sub>6</sub>F<sub>13</sub>, C<sub>8</sub>F<sub>17</sub>

### Synthesis of trifluoromethyl moieties by late-stage copper (I) mediated nucleophilic fluorination

Antonio Bermejo Góme, Miguel A. Cortés González, Marvin Lübcke, Magnus J. Johansson, Magnus Schou, Kálmán J. Szabó

J.Fluor.Chem., 2016, 194, 51-57.



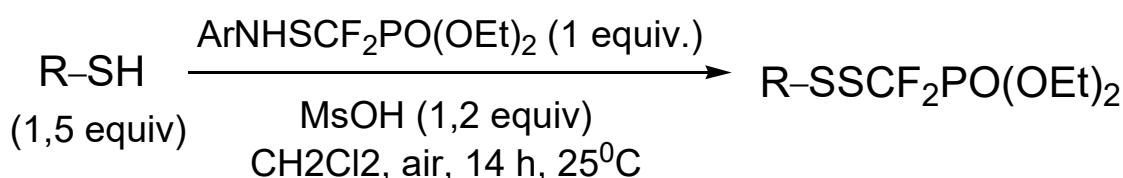
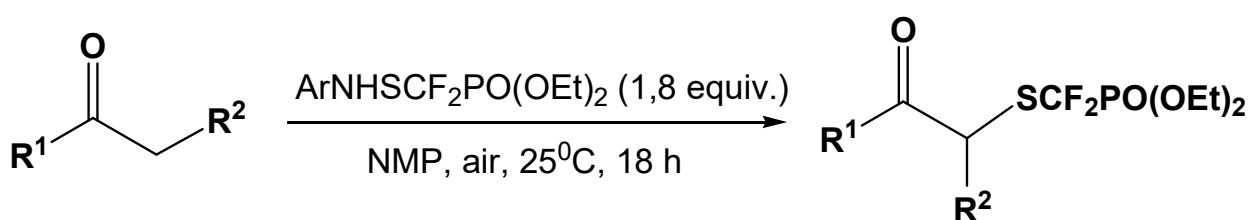


## Angewandte Chemie International Edition

### An Electrophilic Reagent for the Direct Introduction of the SCF<sub>2</sub>PO(OEt)<sub>2</sub> Group to Molecules

Heng-Ying Xiong, Alexandre Bayle, Xavier Pannecoucke, and Tatiana Besset

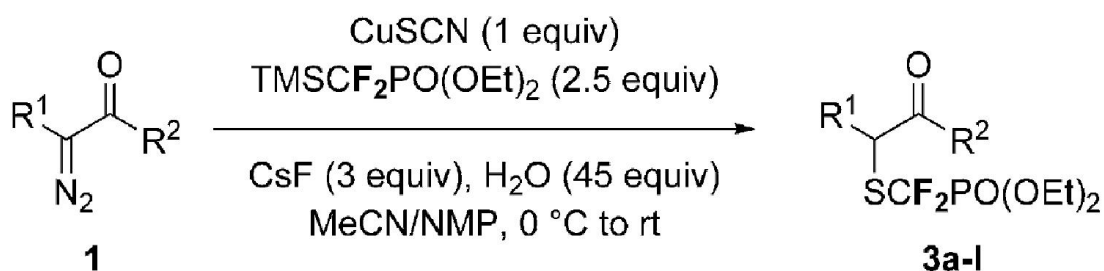
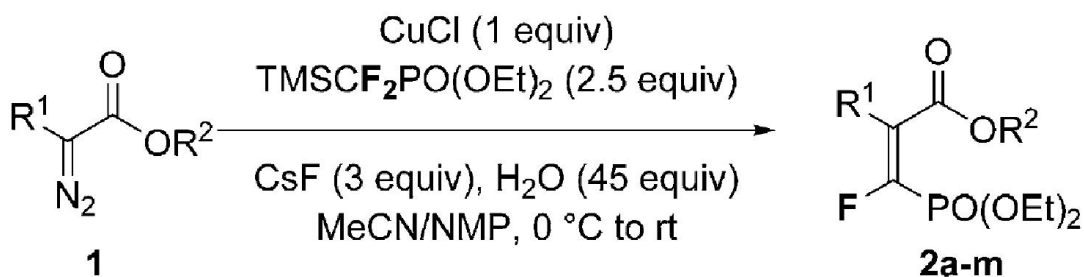
Angew. Chem. Int. Ed., 2016, 55, 13490-13494



## Copper Salt-Controlled Divergent Reactivity of [Cu]CF<sub>2</sub>PO(OEt)<sub>2</sub> with $\alpha$ -Diazocarbonyl Derivatives

Maria V. Ivanova, Alexandre Bayle, Tatiana Besset, Xavier Pannecoucke, and Thomas Poisson

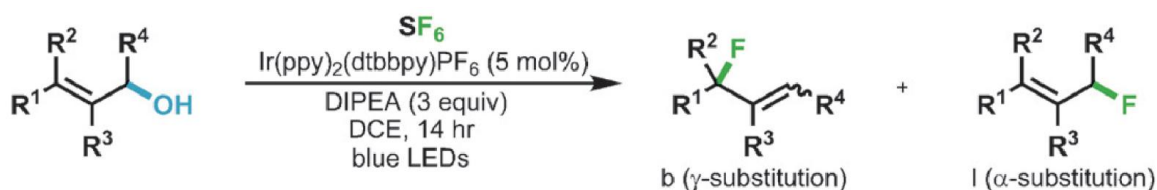
Angew. Chem. Int. Ed., 2016, 55, 14141-14145



## Photoredox Activation of SF<sub>6</sub> for Fluorination

T. Andrew McTeague and Timothy F. Jamison

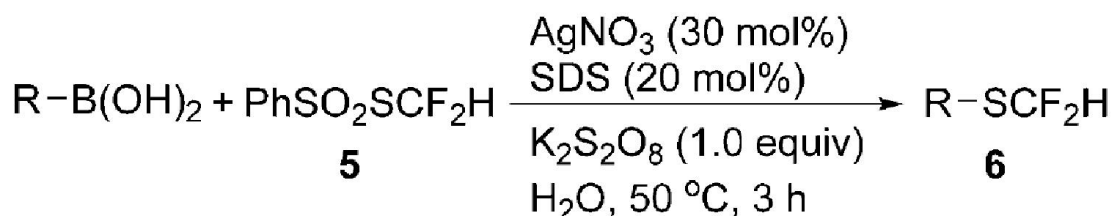
Angew. Chem. Int. Ed., 2016, 55, 15072-15075



## PhSO<sub>2</sub>SCF<sub>2</sub>H: A Shelf-Stable, Easily Scalable Reagent for Radical Difluoromethylthiolation

Dianhu Zhu, Xinxin Shao, Xin Hong, Long Lu, and Qilong Shen

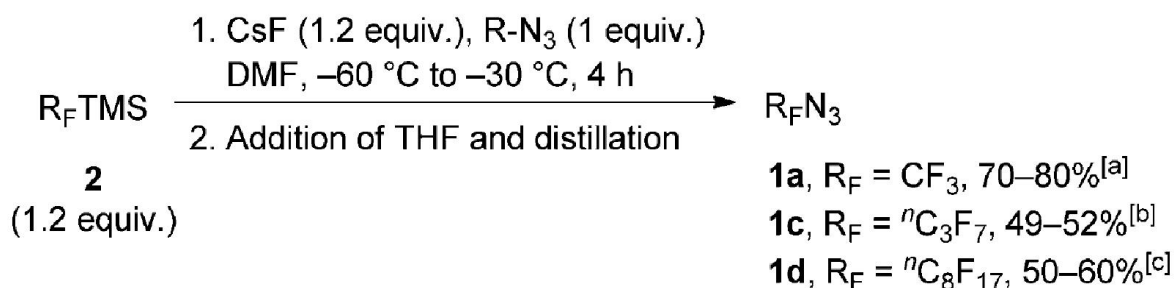
Angew. Chem. Int. Ed., 2016, 55, 15807-15811



## Azidoperfluoroalkanes: Synthesis and Application in Copper(I)-Catalyzed Azide–Alkyne Cycloaddition

Zsófia E. Blastik, Svatava Voltrová, Václav Matoušek, Bronislav Jurásek, David W. Manley, Blanka Klepetářová, and Petr Beier

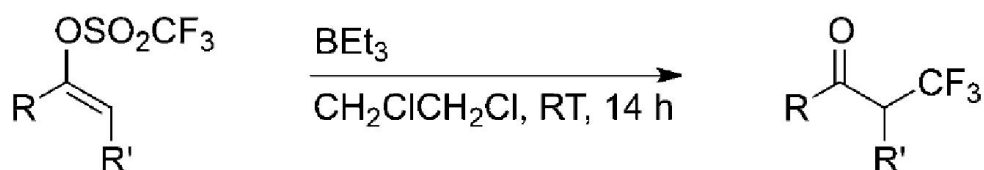
Angew. Chem. Int. Ed., 2017, 56, 346-349



## Synthesis of $\alpha$ -Trifluoromethylated Ketones from Vinyl Triflates in the Absence of External Trifluoromethyl Sources

Takuji Kawamoto, Rio Sasaki, and Akio Kamimura

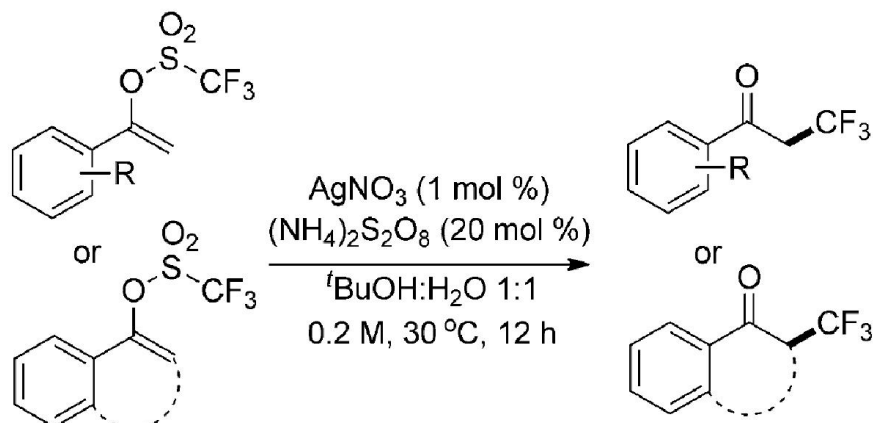
Angew. Chem. Int. Ed., 2017, 56, 1342-1345



## Radical Desulfur-Fragmentation and Reconstruction of Enol Triflates: Facile Access to $\alpha$ -Trifluoromethyl Ketones

Xiaolong Su, Honggui Huang, Yaofeng Yuan, and Yi Li

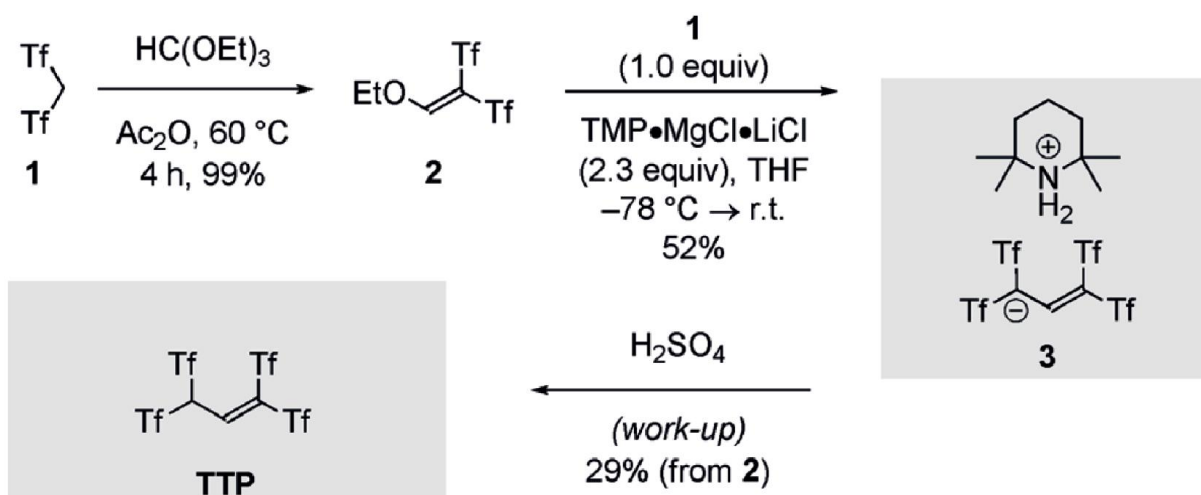
Angew. Chem. Int. Ed., 2017, 56, 1338-1341



## 1,1,3,3-Tetratriflylpropene (TTP): A Strong, Allylic C–H Acid for Brønsted and Lewis Acid Catalysis

Denis Höfler, Manuel van Gemmeren, Petra Wedemann, Karl Kaupmees, Ivo Leito, Markus Leutsch, Julia B. Lingnau, and Benjamin List

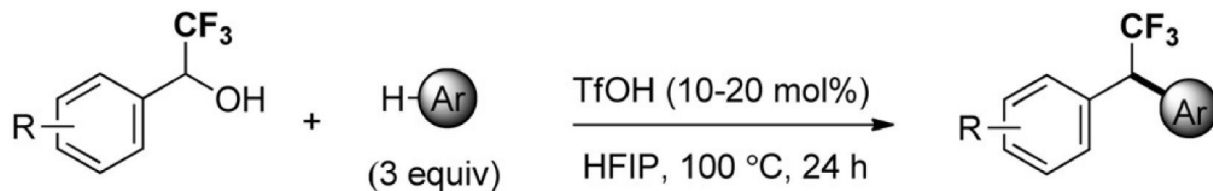
Angew. Chem. Int. Ed., 2017, 56, 1411-1415



## Catalytic Friedel–Crafts Reactions of Highly Electronically Deactivated Benzylic Alcohols

Vuk D. Vuković, Edward Richmond, Eléna Wolf, and Joseph Moran

Angew. Chem. Int. Ed., 2017, 56, 3085-3089

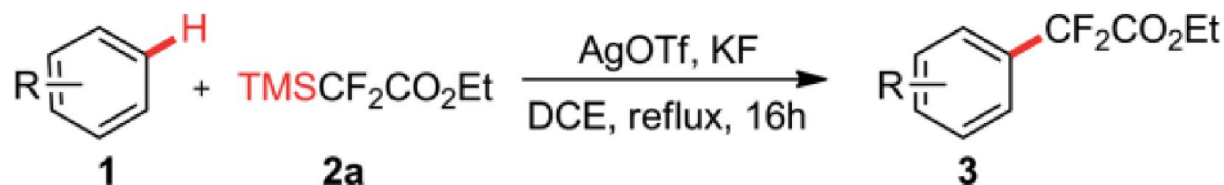


## European Journal of Organic Chemistry

### Silver-Mediated C–H Difluoromethylation of Arenes

Jialiang Li, Wen Wan, Guobin Ma, Yunrong Chen, Qingyang Hu, Kai Kang, Haizhen Jiang, and Jian Hao

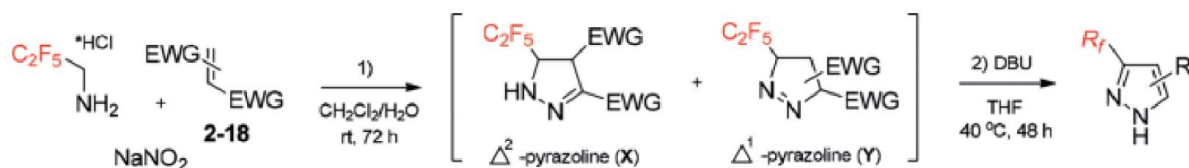
Eur.J. Org.Chem., 2016, 4916-4921



### Synthesis of Fluoroalkyl Pyrazoles from In-Situ-Generated $\text{C}_2\text{F}_5\text{CHN}_2$ and Electron-Deficient Alkenes

Pavel K. Mykhailiuk, Aleksandr Yu. Ishchenko, Viatcheslav Stepanenko, and Janine Cossy

Eur.J. Org.Chem., 2016, 5485-5493

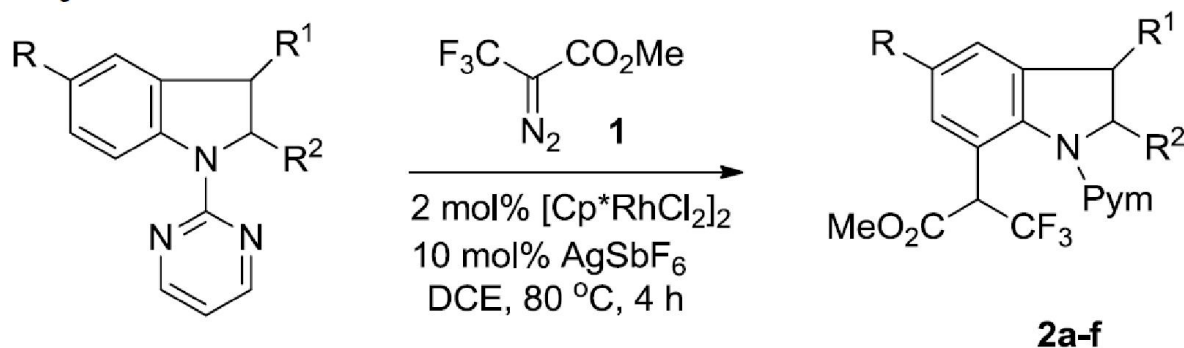




## Rh(III)-Catalyzed CF<sub>3</sub>-Carbenoid C7 Functionalization of Indolines

Irina E. Iagafarova, Daria V. Vorobyeva, Dmitry A. Loginov, Alexander S. Peregudov, and Sergey N. Osipov

Eur.J. Org.Chem., 2017, 840-845

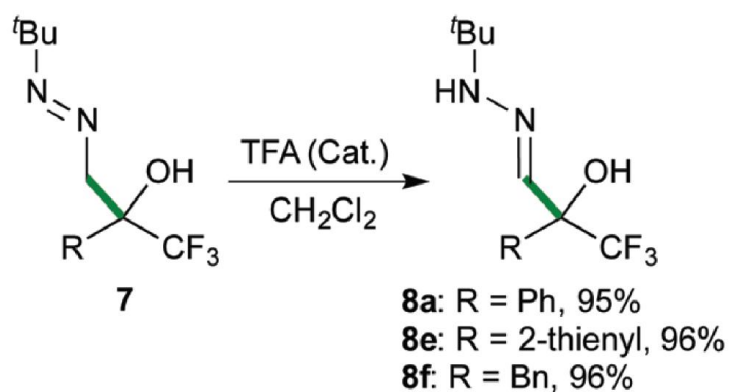
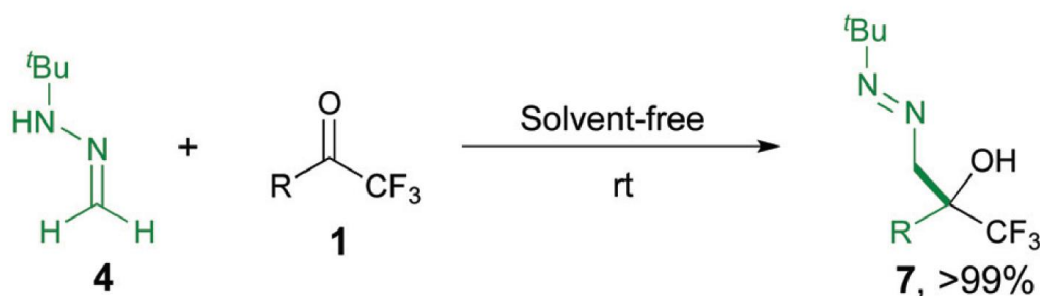


## Green Chemistry

### Solvent-free synthesis of quaternary $\alpha$ -hydroxy $\alpha$ -trifluoromethyl diazenes: the key step of a nucleophilic formylation strategy

Esteban Matador, David Monge, Rosario Fernández and José M. Lassaletta

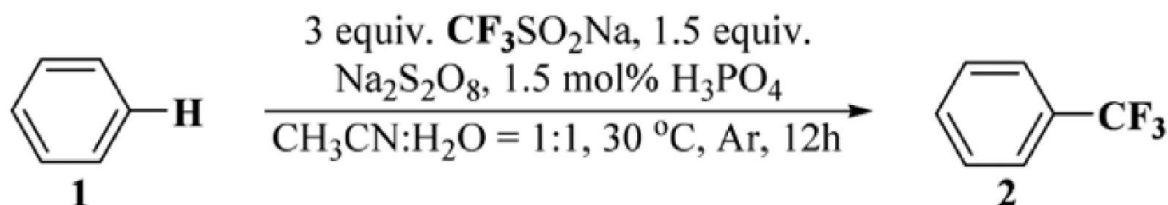
Green Chem. 2016, 18, 4042-4050



## Catalyst-free direct C–H trifluoromethylation of arenes in water–acetonitrile

Dangui Wang, Guo-Jun Deng, Shiya Chen and Hang Gong

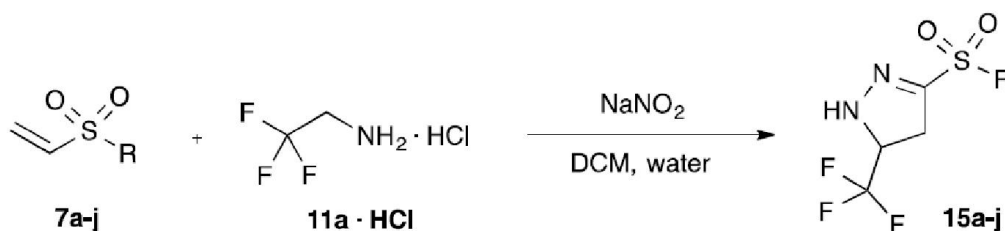
**Green Chem.** 2016, 18, 5967-5970



## Difluoro- and trifluoro diazoalkanes –complementary approaches in batch and flow and their application in cycloaddition reactions

Katharina J. Hock, Lucas Mertens, Friederike K. Metze, Clemens Schmittmann and Rene M. Koenigs

**Green Chem.** 2017, 19, 905-909



entry	R	yield	entry	R	Yield
1	Phenyl	84%	6	4-Fluorophenyl	93%
2	Methyl	>99%	7	4-Chlorophenyl	91%
3	Ethyl	>99%	8	4-MeO-phenyl	93%
4	Benzyl	93%	9	3-Methylphenyl	>99%
5	4-Methylphenyl	98%	10	2-Methylphenyl	94%

reaction conditions: vinyl sulfone (0.5 mmol, 1 eq), trifluoroethyl amine hydrochloride (2 eq) and  $\text{NaNO}_2$  (3 eq) in DCM (8 mL) / water (2 mL) was vigorously stirred for 14 h at room temperature; isolated yields.