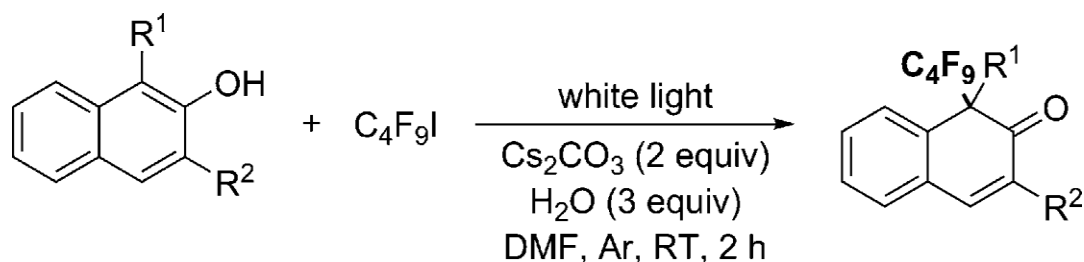


Angewandte Chemie International Edition

Visible-Light-Promoted Dearomative Fluoroalkylation of *b*-Naphthols through Intermolecular Charge Transfer

Quanping Guo, Mengran Wang, Hong Liu, Rui Wang, and Zhaoqing Xu

Angew. Chem. Int. Ed., 2018, 57, 4747-4751

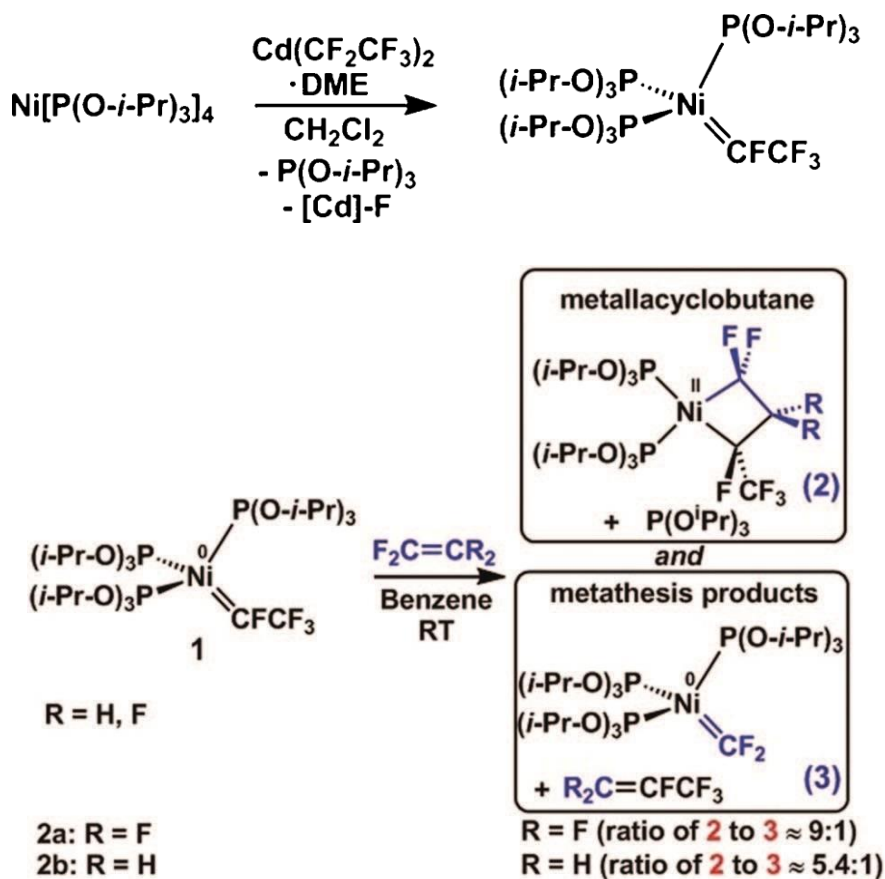


17 examples
yield up to 98%

Nickel Fluorocarbene Metathesis with Fluoroalkenes

Daniel J. Harrison, Alex L. Daniels, Jia Guan, Bulat M. Gabidullin, Michael B. Hall, and R. TomBaker

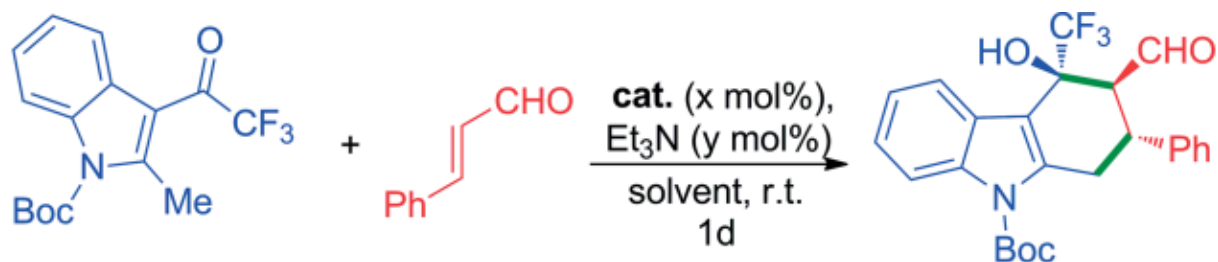
Angew. Chem. Int. Ed., 2018, 57, 5772-5776



Organocatalytic Asymmetric Synthesis of Trifluoromethylated Tetrahydrocarbazoles by a Vinylogous Michael/Aldol Formal [4+2] Annulation

Ehsan Jafari, Pankaj Chauhan, Mukesh Kumar, Xiang-Yu Chen, Sun Li, Carolina von Essen, Kari Rissanen, and Dieter Enders

Eur.J. Org.Chem., 2018, 2462-2465



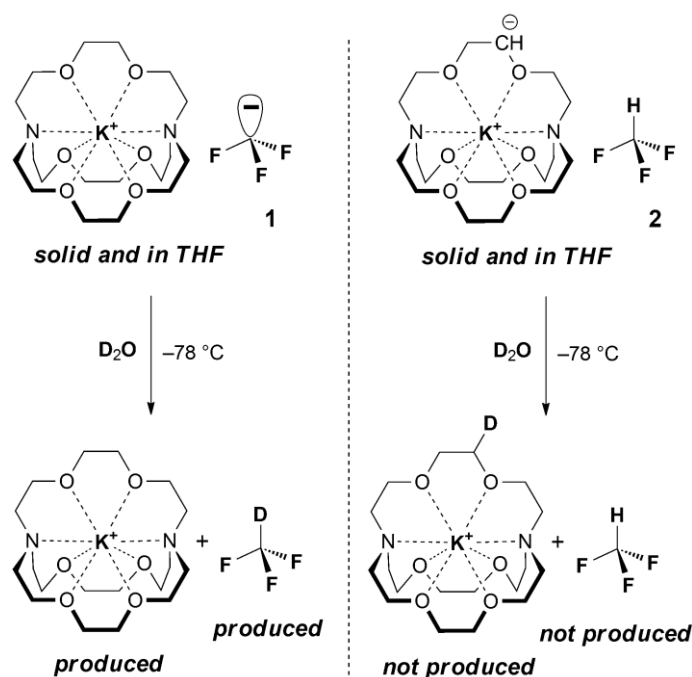
18 examples
yield up to 95%

Helvetica Chimica Acta

On the Structure of [K(crypt-222)]⁺ CF₃⁻

Richard L. Harlow, Jordi Benet-Buchholz, Fedor M. Miloserdov, Andrey I. Konovalov, William J. Marshall, Eduardo C. Escudero-Adán, Eddy Martin, Anton Lishchynskyi, and Vladimir V. Grushin

Helv. Chim. Acta, 2018, 101. e1800015

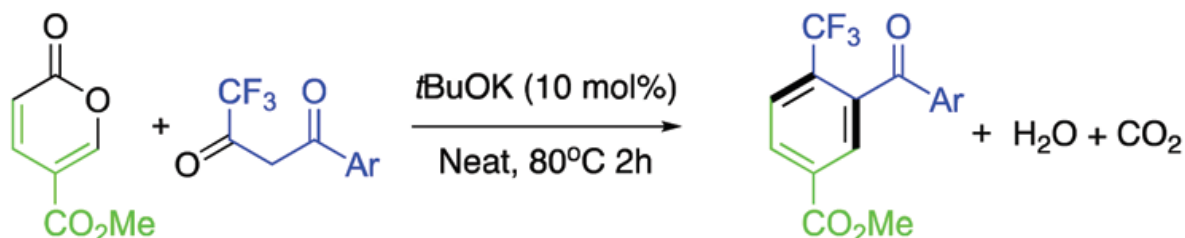


Green Chemistry

A solvent-free, base-catalyzed domino reaction towards trifluoromethylated benzenes from bio-based methyl coumalate

Liang Chang, Nadja Klipfel, Luc Dechoux and Serge Thorimbert

Green Chem. 2018, 20, 1491-1498



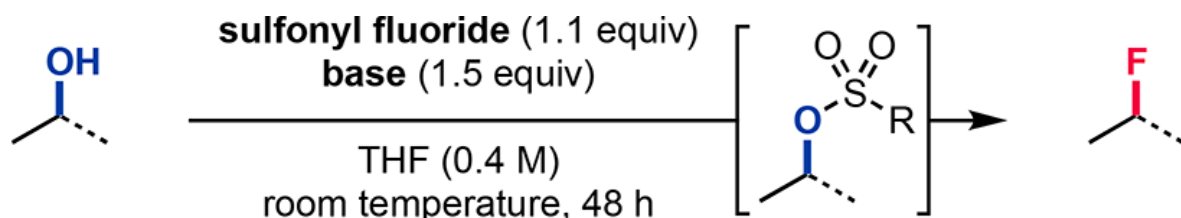
24 examples
yield up to 96%

Journal of the American Chemical Society

Deoxyfluorination with Sulfonyl Fluorides: Navigating Reaction Space with Machine Learning

Matthew K. Nielsen, Derek T. Ahneman, Orestes Riera, and Abigail G. Doyle

J. Am. Chem. Soc., 2018, 140, 5004-5008

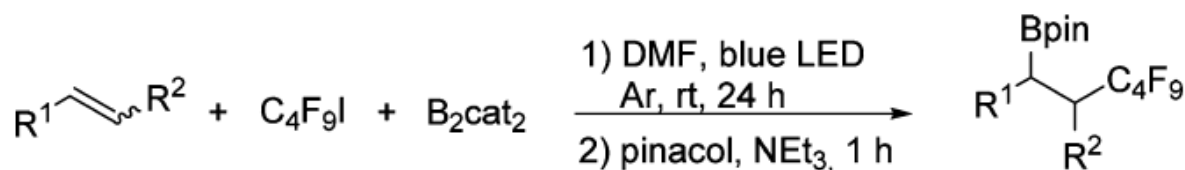


yield up to 99%

Transition Metal-Free 1,2-Carboboration of Unactivated Alkenes

Ying Cheng, Christian Mück-Lichtenfeld, and Armido Studer

J. Am. Chem. Soc., 2018, 140, 6221-6225

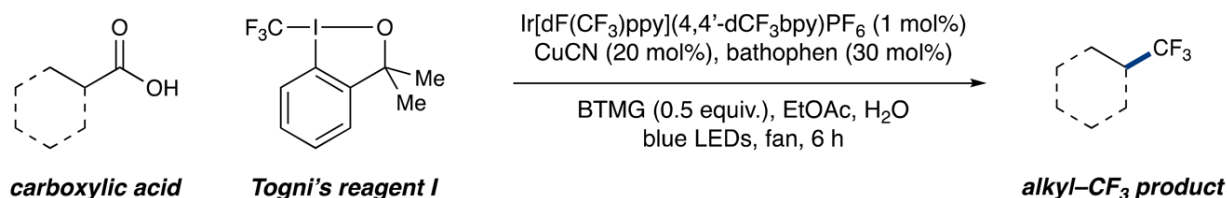


37 examples
yield up to 87%

Decarboxylative Trifluoromethylation of Aliphatic Carboxylic Acids

Jacob A. Kautzky, Tao Wang, Ryan W. Evans, and David W. C. MacMillan

J. Am. Chem. Soc., 2018, 140, 6522-6526

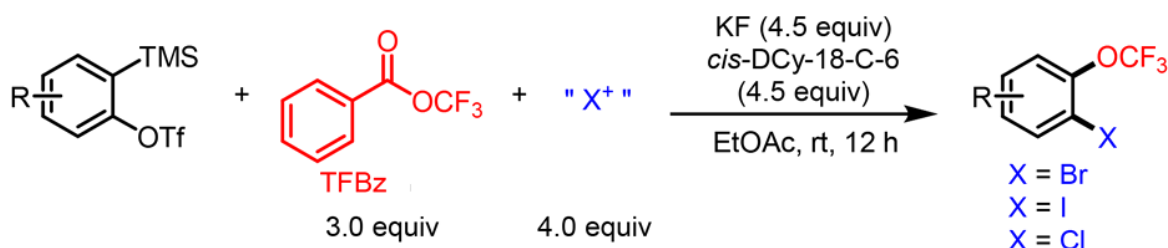


**36 examples
yield up to 82%**

Trifluoromethyl Benzoate: A Versatile Trifluoromethoxylation Reagent

Min Zhou, Chuanfa Ni, Yuwen Zeng, and Jinbo Hu

J. Am. Chem. Soc., 2018, 140, 6801-6805



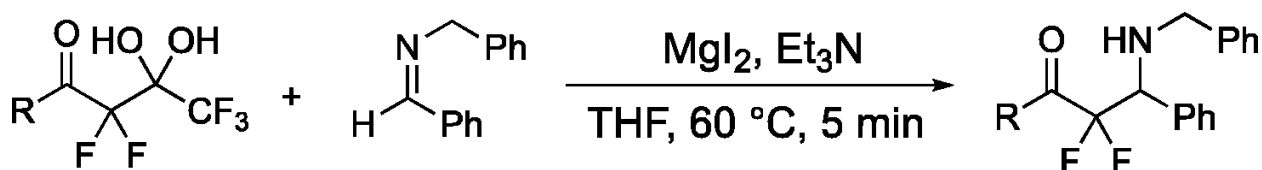
**28 examples
yield up to 87%**

Journal of Organic Chemistry

Magnesium-Promoted Additions of Difluoroenolates to Unactivated Imines

Alex L. Nguyen, Hari R. Khatri, James R. Woods, Cassidy S. Baldwin, Frank R. Fronczek, and David A. Colby

J. Org. Chem., 2018, 83, 3109-3118



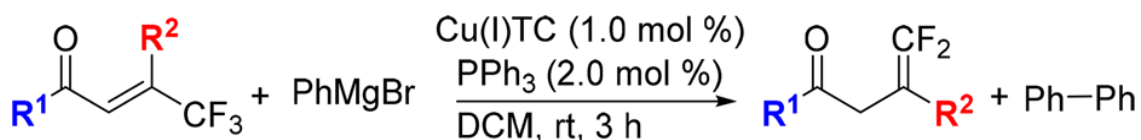
**6 examples
yield up to 85%**

Organic Letters

A Copper-Catalyzed Reductive Defluorination of β -Trifluoromethylated Enones via Oxidative Homocoupling of Grignard Reagents

Xiaoting Wu, Fang Xie, Ilya D. Gridnev, and Wanbin Zhang

Org. Lett., 2018, 20, 1638-1642

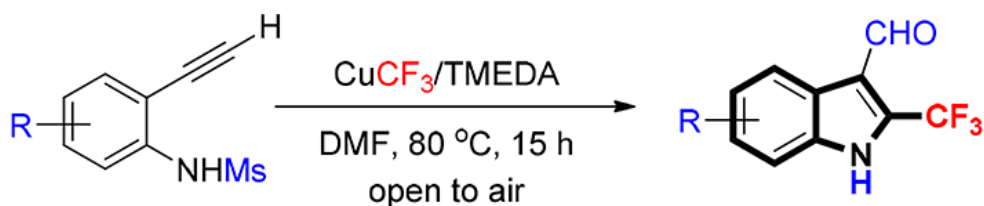


24 examples
yield up to 92%

Synthesis of 2-(Trifluoromethyl)indoles via Domino Trifluoromethylation/Cyclization of 2-Alkynylanilines

Yibin Ye, Kelvin Pak Shing Cheung, Lisi He, and Gavin Chit Tsui

Org. Lett., 2018, 20, 1676-1679

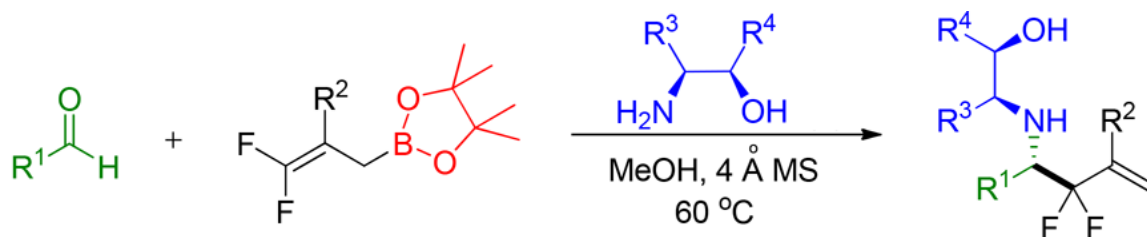


13 examples
yield up to 88%

Petasis-Type *gem*-Difluoroallylation Reactions Assisted by the Neighboring Hydroxyl Group in Amines

Xing Yang, Ze-Hun Cao, Yang Zhou, Feng Cheng, Zi-Wei Lin, Zhi Ou, Ye Yuan, and Yi-Yong Huang

Org. Lett., 2018, 20, 2585-2589



12 examples
yield up to 93%