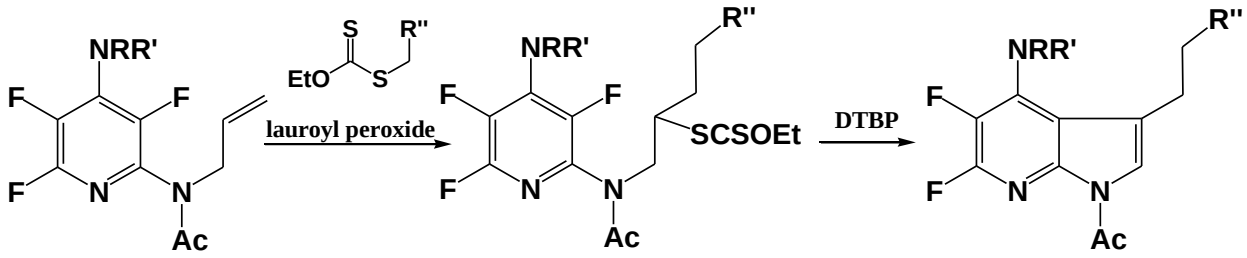
Org. Process Res. Dev. 2014, 18, 1156−1163

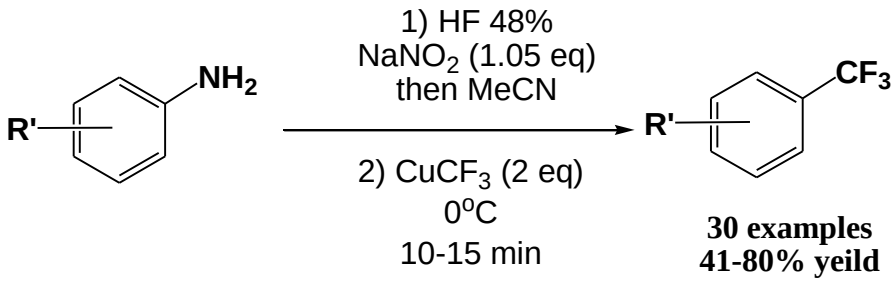
RADICAL ipso SUBSTITUTION

Org. Lett. 2014, 16, 2704



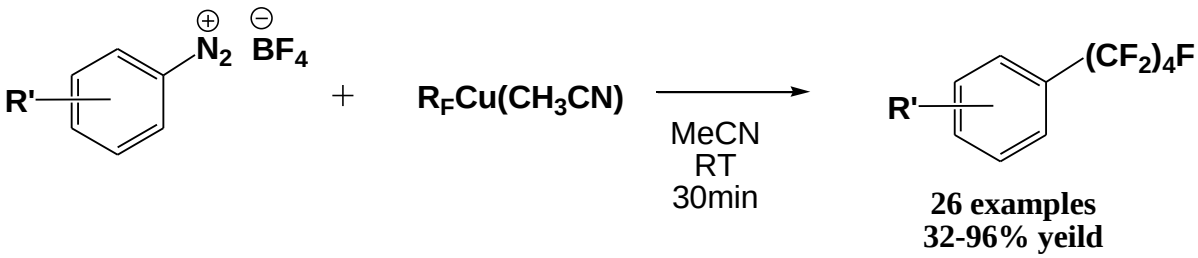
TRIFLUOROMETHYLATION OF ARENEDIAZONIUM WITH CuCF3 IN AQUEOUS MEDIA

Chem. Commun. 2014, 50, 10237



PERFLUOROALKYLATION OF ARENEDIAZONIUM WITH RFCu(CH3CN)

Eur. J. Org. Chem. 2014, 6303-6309 (10.1002/ejoc.201402820)

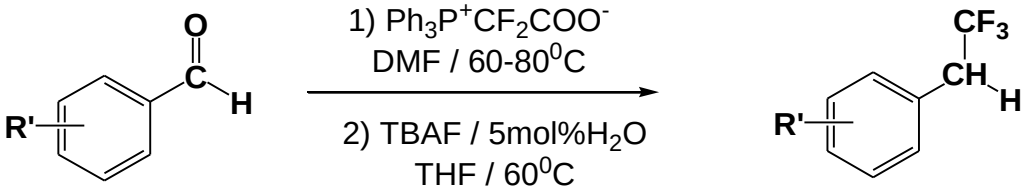


R': Alkyl, Ph, halogen, OR, COOR, CN, NO_2, NMe_2, COMe

R_F: $F(CF_2)_2$; $F(CF_2)_3$; $F(CF_2)_4$; $F(CF_2)_6$

METAL-FREE TRIFLUOROMETHYLATION OFAROMATIC AND HETEROAROMATIC ALDEHYDES AND KETONES

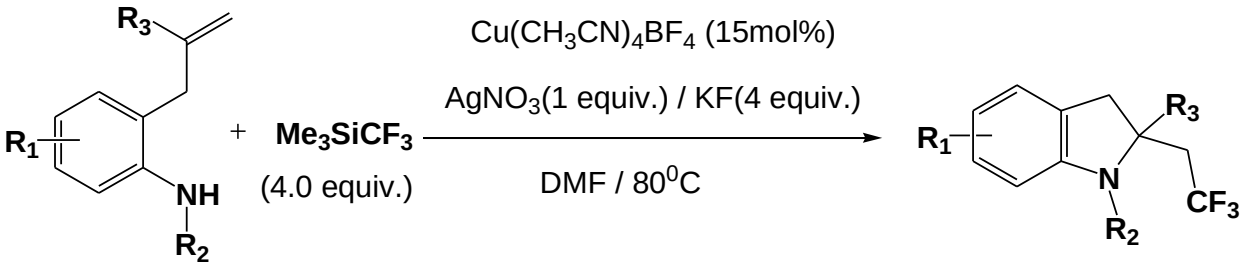
J. Org. Chem. 2014, 79, 7122



17 examples
45-77% yeild

COPPER-CATALYZED AMINOTRIFLUOROMETHYLATION OF UNACTIVATED ALKENES WITH (TMS)CF3: CONSTRUCTION OF TRIFLUOROMETHYLATEDAZAHETEROCYCLES

J. Org. Chem. 2014, 79, 7084



18 examples
34-62% yeild

R_1 = H, alkyl, alkoxy, aryl, halogen

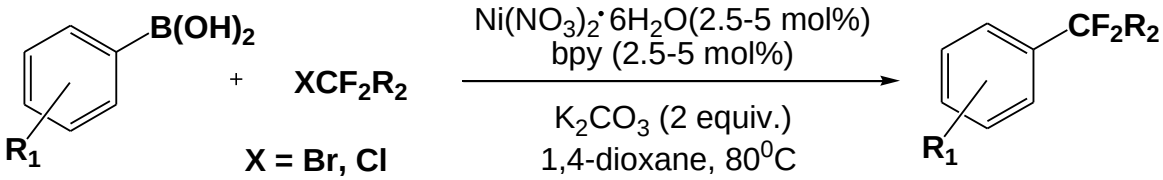
R_2 = Boc, CBz, Ts

R_3 = H, alkyl, aryl

Org. Process Res. Dev. 2014, 18, 1260−1269

NICKEL-CATALYZED CROSS-COUPLING OF FUNCTIONALIZED DIFLUOROMETHYL BROMIDES AND CHLORIDES WITH ARYL BORONIC ACIDS: A GENERAL METHOD FOR DIFLUOROALKYLATED ARENES

Angew.Chem., Int. Ed. 2014, 53, 9909



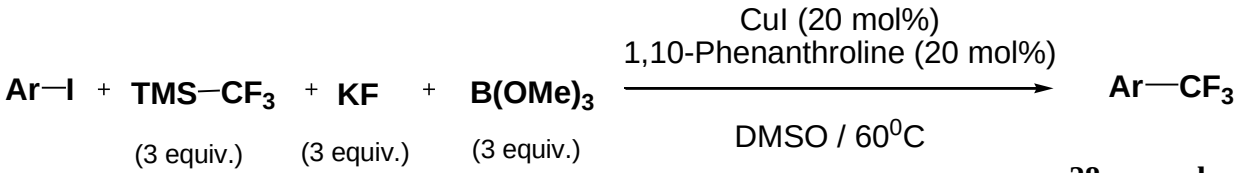
30 examples
30-96% yeild

R_1 = E

Org. Process Res. Dev. 2014, 18, 1594−1601

EFFICIENT COPPER-CATALYZED TRIFLUOROMETHYLATION OF AROMATIC AND HETEROAROMATIC IODIDES: THE BENEFICIAL ANCHORING EFFECT OF BORATES

Org. Lett. 2014, 16, 4268

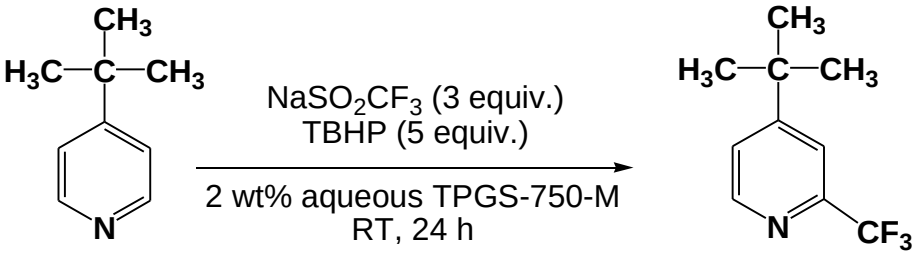


28 examples
21-95% yeild

Org. Process Res. Dev. 2014, 18, 1602−1613

C−H ACTIVATION

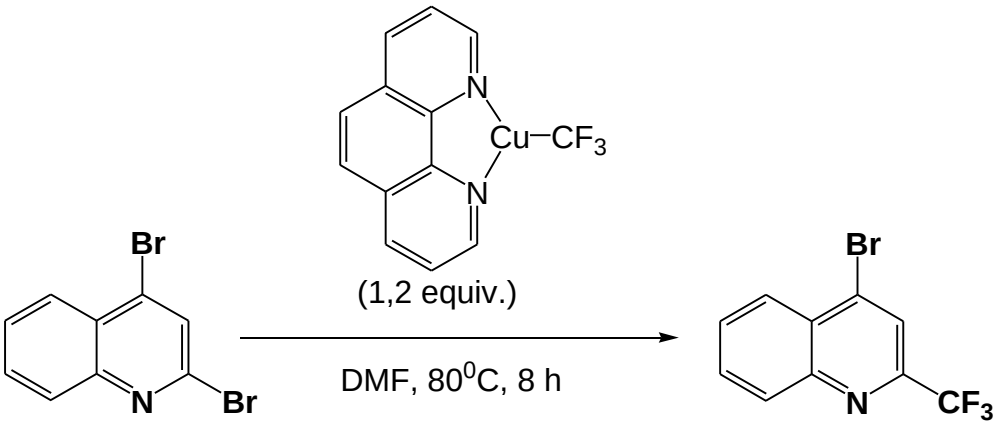
Green Chem. 2014, 16, 1097−1100



84%

GREENER FLUORINATION

Org.Lett. 2014, 16, 1744−1747



65% yeild
(18% bis-CF_3)