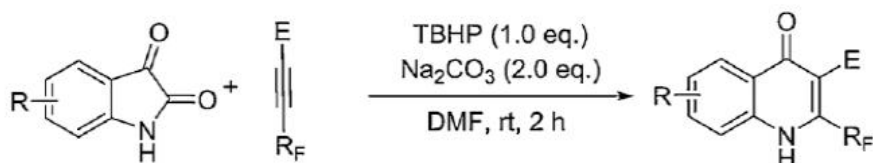


Journal of Fluorine Chemistry

Facile synthesis of fluoroalkylated quinolones using fluoroalk-2-ynoates as fluorinated building blocks

Jun Wu, Hui Zhang, Xiao Ding, Xuefei Tan, Hong C. Shen, Jie Chen, Weimin He, Hongmei Deng, Liping Song, Weiguo Cao

J. Fluor. Chem., 2019, 220, 54-60.



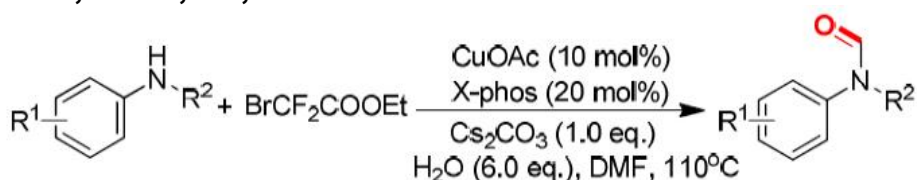
26 examples
yield up to 90%

Journal of Organic Chemistry

Copper-Catalyzed N-Formylation of Amines through Tandem Amination/Hydrolysis/Decarboxylation Reaction of Ethyl Bromodifluoroacetate

Xiao-Fang Li, Xing-Guo Zhang, Fan Chen, and Xiao-Hong Zhang

J. Org. Chem., 2018, 83, 12815-12821

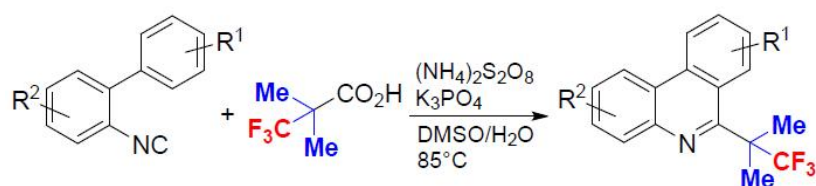


24 examples
yield up to 85%

Synthesis of CMe₂CF₃-Containing Heteroarenes via Tandem 1,1-Dimethyltrifluoroethylation and Cyclization of Isonitriles

Wen-Qiang Shi, Shuai Liu, Chen-Ze Wang, Yangen Huang, Feng-Ling Qing, and Xiu-Hua Xu

J. Org. Chem., 2018, 83, 15236-15244

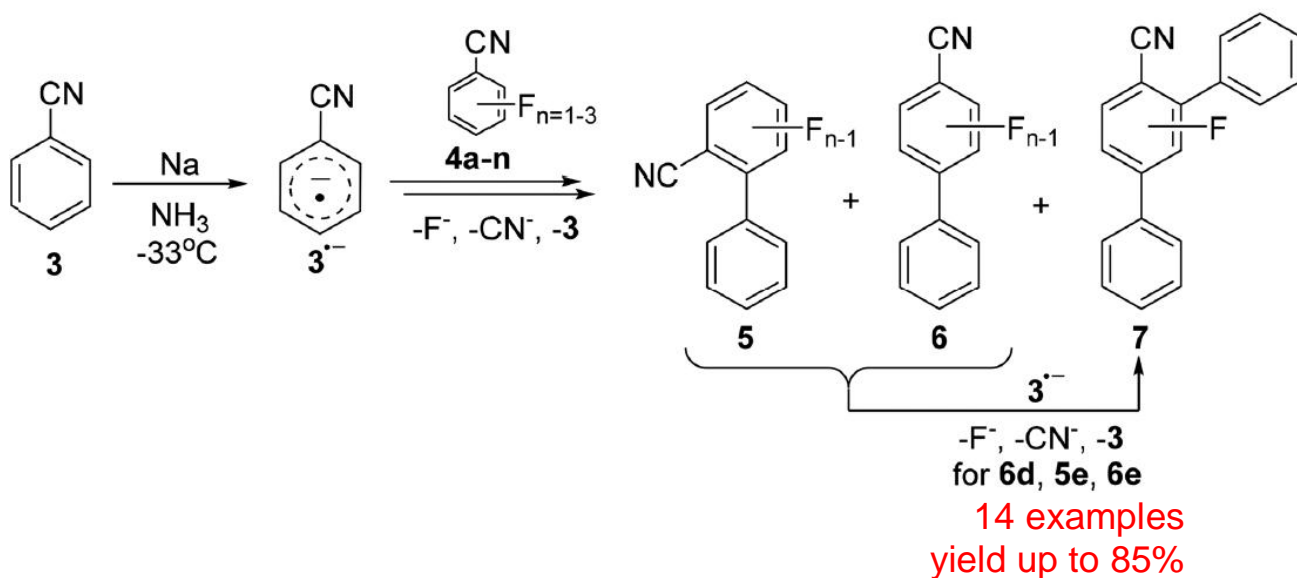


27 examples
yield up to 94%

Radical Anions of Aromatic Carbonitriles as Reagents for Arylation of Fluorinated Benzonitriles

Roman Yu. Peshkov, Chunyan Wang, Elena V. Panteleeva, Tatyana V. Rybalova, and Evgeny V. Tretyakov

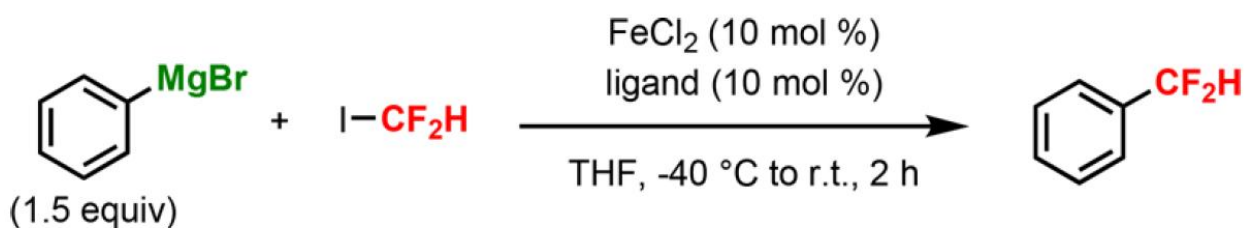
J. Org. Chem., 2019, 84, 963-972



Ligand-Less Iron-Catalyzed Aromatic Cross-Coupling Difluoromethylation of Grignard Reagents with Difluoroiodomethane

Hirota Motoshi, Miki Kato and Koichi Mikami

J. Org. Chem., 2019, 84, 6483-6490

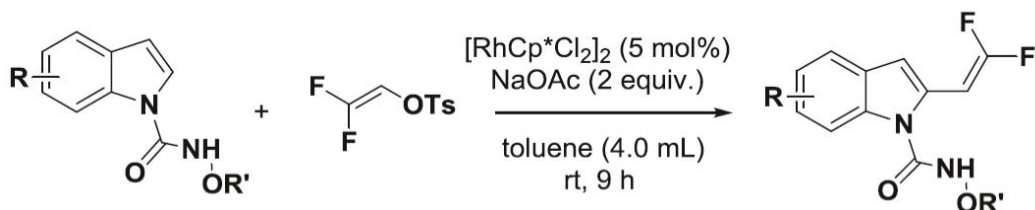


24 examples
yield up to 94%

Cp*Rh(III)-Catalyzed C–H Bond Difluorovinylolation of Indoles with α,α -Difluorovinyl Tosylate

Lisheng Yang, Chunpu Li, Dechuan Wang and Hong Liu

J. Org. Chem., 2019, 84, 7320-7330



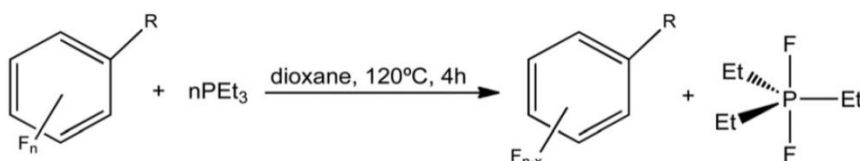
29 examples
yield up to 82%

New Journal of Chemistry

Hydrodefluorination of functionalized fluoroaromatics with triethylphosphine: a theoretical and experimental study

Aldo A. Facundo, Alma Arévalo, Gabriela Fundora-Galano, Marcos Flores-Álamo, Emilio Orgaz and Juventino J. García

New J. Chem., 2019, 43, 6897-6908



12 examples
yield up to 100%

Organic Chemistry Frontiers

Trifluoromethylation of α -diazooesters and α -diazoketones with fluoroform-derived CuCF₃: synergistic effects of co-solvent and pyridine as a promoter

Qiao Ma and Gavin Chit Tsui

Org. Chem. Front., 2019, 6, 27-31

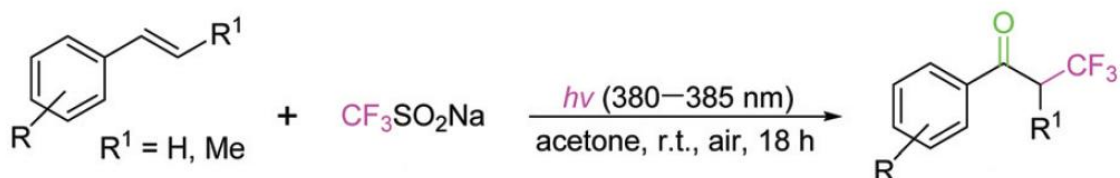


19 examples
yield up to 91%

Photoinduced synthesis of α -trifluoromethylated ketones through the oxidative trifluoromethylation of styrenes using $\text{CF}_3\text{SO}_2\text{Na}$ as a trifluoromethyl reagent without an external photoredox catalyst

Lulu Zhao, Pinhua Li, Hao Zhang and Lei Wang

Org. Chem. Front., 2019, 6, 87-93

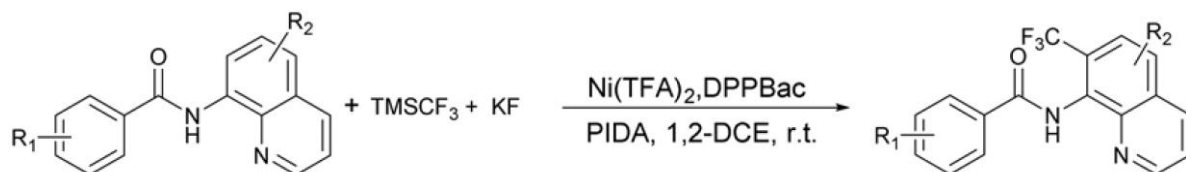


20 examples
yield up to 85%

Nickel-catalyzed C–H bond trifluoromethylation of 8-aminoquinoline derivatives by acyl-directed functionalization

Xiaochong Liu, Guijie Mao, Jingyi Qiao, Chunzhao Xu, Hao Liu, Junjie Ma, Zhizhong Sun and Wenyi Chu

Org. Chem. Front., 2019, 6, 1189-1193



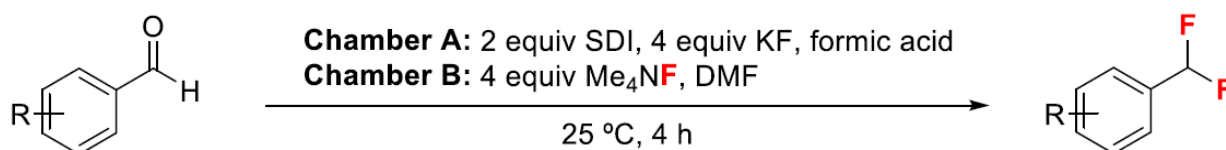
22 examples
yield up to 89%

Organic Letters

Room Temperature Deoxyfluorination of Benzaldehydes and α -Ketoesters with Sulfuryl Fluoride and Tetramethylammonium Fluoride

Patrick R. Melvin, Devin M. Ferguson, Sydonie D. Schimler, Douglas C. Bland, and Melanie S. Sanford

Org. Lett., 2019, 21, 1350-1353

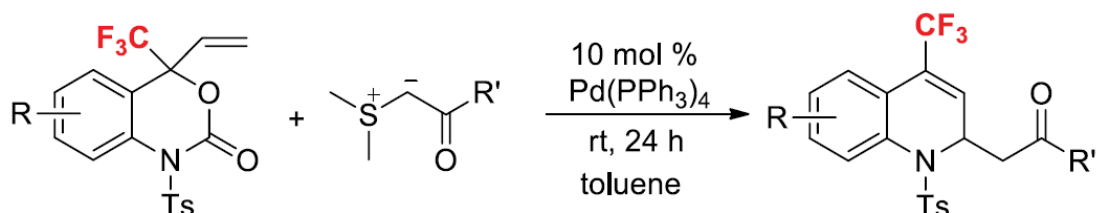


28 examples
yield up to 97%

Pd-Catalyzed Decarboxylative Cyclization of Trifluoromethyl Vinyl Benzoxazinanes with Sulfur Ylides: Access to Trifluoromethyl Dihydroquinolines

Nagender Punna, Kyosuke Harada, Jun Zhou, and Norio Shibata

Org. Lett., 2019, 21, 1515-1520

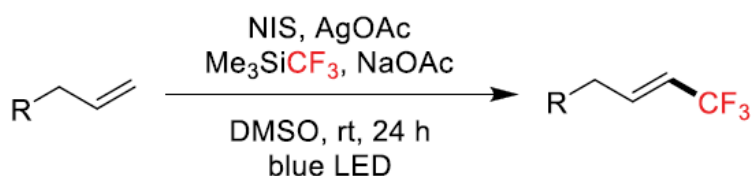


28 examples
yield up to 85%

Trifluoromethylation of Unactivated Alkenes with Me₃SiCF₃ and N-Iodosuccinimide

Xinkan Yang and Gavin Chit Tsui

Org. Lett., 2019, 21, 1521-1525

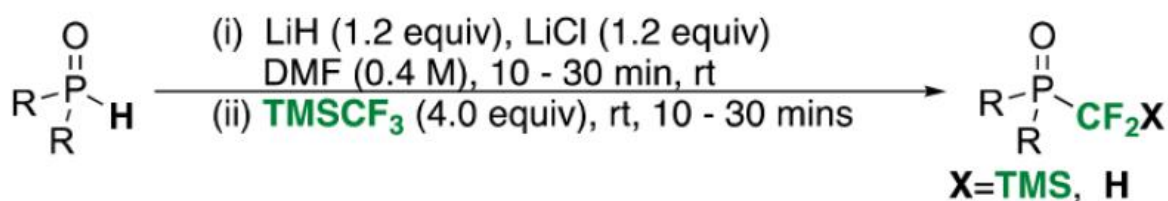


38 examples
yield up to 85%

Siladifluoromethylation and Deoxo-trifluoromethylation of P^V-H Compounds with TMSCF₃: Route to P^V-CF₂⁻ Transfer Reagents and P-CF₃ Compounds

Vinayak Krishnamurti, Colby Barrett, and G. K. Surya Prakash

Org. Lett., 2019, 21, 1526-1529

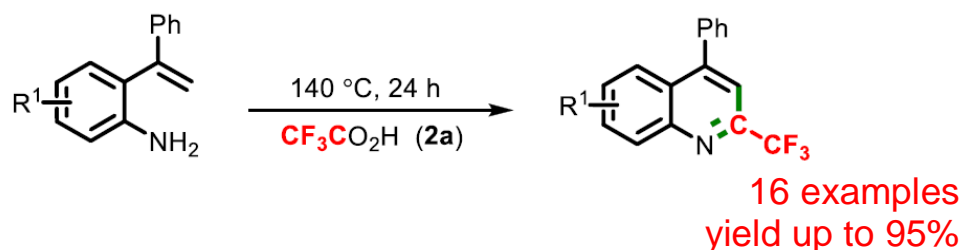


9 examples
yield up to 99%

Metal-Free Synthesis of 2-Fluoroalkylated Quinolines Using Polyfluoroalkanoic Acids as Direct Fluorine Sources

Jiang Nan, Yan Hu, Pu Chen, and Yangmin Ma

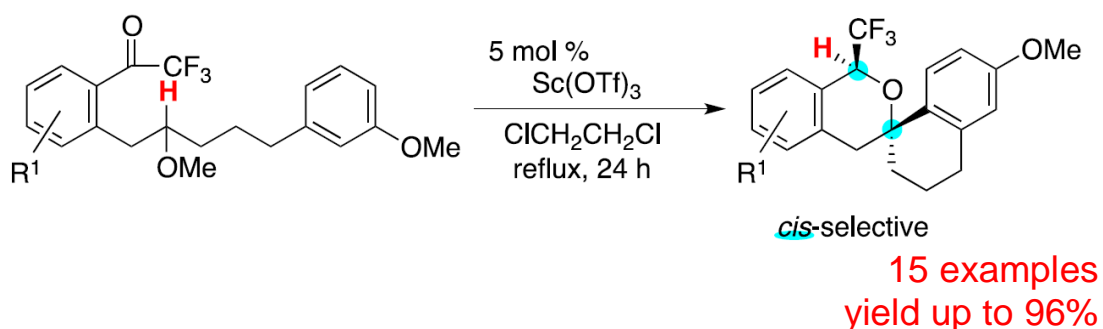
Org. Lett., 2019, 21, 1984-1988



Diastereoselective Synthesis of CF_3 -Substituted Spiroisochromans by [1,5]-Hydride Shift/Cyclization/Intramolecular Friedel-Crafts Reaction Sequence

Risa Tamura, Eriko Kitamura, Ryosuke Tsutsumi, Masahiro Yamanaka, Takahiko Akiyama, and Keiji Mori

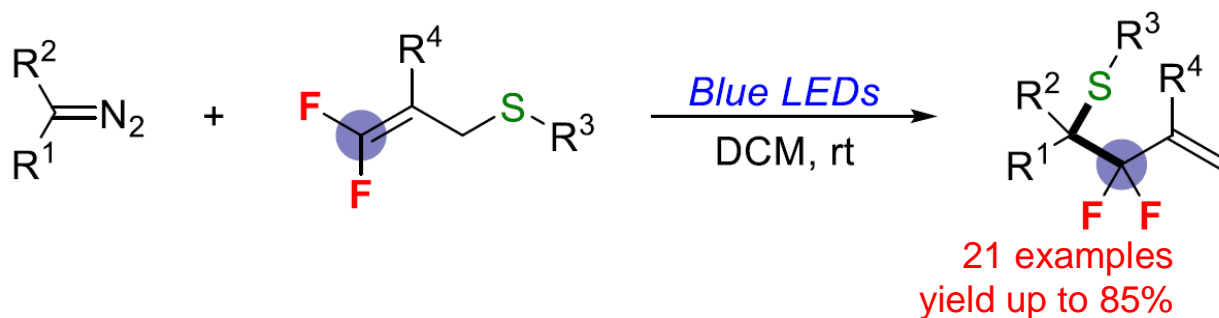
Org. Lett., 2019, 21, 2383-2387



gem-Difluoroallylation of Aryl Diazoesters via Catalyst-Free, BlueLight-Mediated Formal Doyle-Kirmse Reaction

Jianhua Yang, Jiazhuang Wang, Hongtai Huang, Guiping Qin, Yubo Jiang and Tiebo Xiao

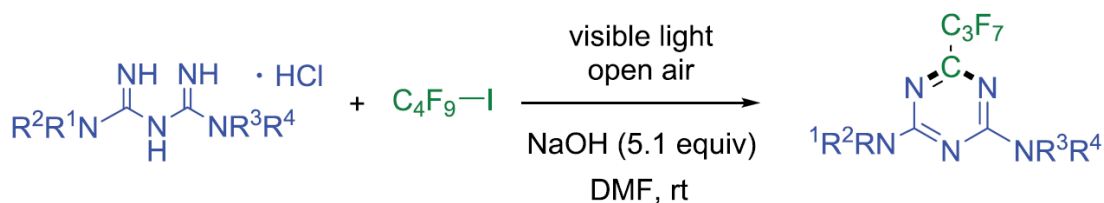
Org. Lett., 2019, 21, 2654-2657



Visible-Light-Promoted [5 + 1] Annulation Initiated by Electron-Donor–Acceptor Complexes: Synthesis of Perfluoroalkyl-s-Triazines

Rui Wang, Lili Wang, Qin Xu, Bao-Yi Ren and Fushun Liang

Org. Lett., 2019, 21, 3072-3076

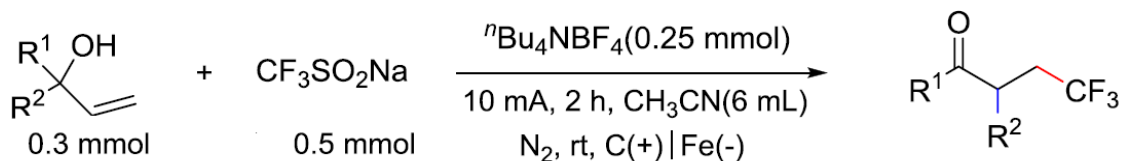


12 examples
yield up to 87%

Electrochemical Oxidative Aryl(alkyl)trifluoromethylation of Allyl Alcohols via 1,2-Migration

Zhipeng Guan, Huamin Wang, Yange Huang, Yunkun Wang, Shengchun Wang and Aiwen Lei

Org. Lett., 2019, 21, 4619-4622



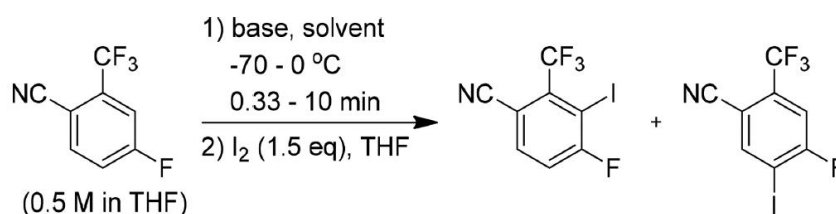
14 examples
yield up to 60%

Organometallics

Selective Continuous Flow Iodination Guided by Direct Spectroscopic Observation of Equilibrating Aryl Lithium Regioisomers

Anna L. Dunn, David C. Leitch, Michel Journet, Michael Martin, Elie A. Tabet, Neil R. Curtis, Glynn Williams, Charles Goss, Tony Shaw, Bernie O'Hare, Charles Wade, Matthew A. Toczko, and Peng Liu

Organometallics, 2019, 38, 129-137



15 examples
yield up to 75%