

Fluorine and Fluorinated Motifs in the Design and Application of Medicinal Chemistry

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Fluorine walk: The impact of fluorine in quinolone amides on their activity against African sleeping sickness. <i>European Journal of Medicinal Chemistry</i> , 2018, 152, 377-391.	2.6	9
2	Fluorine-Substituted Pyrrolo[2,3-d]Pyrimidine Analogues with Tumor Targeting via Cellular Uptake by Folate Receptor $\hat{\pm}$ and the Proton-Coupled Folate Transporter and Inhibition of de Novo Purine Nucleotide Biosynthesis. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 4228-4248.	2.9	21
3	Modulating ADME Properties by Fluorination: MK2 Inhibitors with Improved Oral Exposure. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 392-396.	1.3	14
4	p-Toluenesulfonic acid catalysed fluorination of $\hat{\pm}$ -branched ketones for the construction of fluorinated quaternary carbon centres. <i>Chemical Communications</i> , 2018, 54, 12377-12380.	2.2	11
5	Synthesis, radiosynthesis, in vitro and first in vivo evaluation of a new matrix metalloproteinase inhibitor based on $\hat{\pm}$ -fluorinated $\hat{\pm}$ -sulfonylamino hydroxamic acid. <i>EJNMMI Radiopharmacy and Chemistry</i> , 2018, 3, 10.	1.8	7
6	Reducing the Lipophilicity of Perfluoroalkyl Groups by CF ₂ –F/CF ₂ –Me or CF ₃ /CH ₃ Exchange. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 10602-10618.	2.9	66
7	¹⁸ F-Labeled Derivatives of Irbesartan for Angiotensin II Receptor PET Imaging. <i>ChemMedChem</i> , 2018, 13, 2546-2557.	1.6	9
8	Synthesis of CF ₂ CF ₃ -Containing Heteroarenes via Tandem 1,1-Dimethyltrifluoroethylation and Cyclization of Isonitriles. <i>Journal of Organic Chemistry</i> , 2018, 83, 15236-15244.	1.7	17
9	Telescoped, Divergent, Chemoselective C1 and C1–C1 Homologation of Imines Surrogates: A Straightforward Access to Quaternary Chloro- and Halomethyl-trifluoromethyl-aziridines. <i>Angewandte Chemie</i> , 2018, 131, 2501.	1.6	14
10	Acyl Glycosides through Stereospecific Glycosyl Cross-Coupling: Rapid Access to C(sp ³)-Linked Glycomimetics. <i>ACS Central Science</i> , 2018, 4, 1652-1662.	5.3	50
11	Catalytic <i>geminal</i> Difluorination of Styrenes for the Construction of Fluorine-rich Bioisosteres. <i>Organic Letters</i> , 2018, 20, 8073-8076.	2.4	66
12	Efficient Synthesis of Fluoroalkylated Imidazoles via a Metal-Free Cascade Michael Addition/Azidation/Cycloamination Process. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 6758-6763.	1.2	12
13	TfOH-Promoted Transition-Metal-Free Cascade Trifluoroethylation/Cyclization of Organic Isothiocyanates by Phenyl(2,2-trifluoroethyl)iodonium Triflate. <i>Organic Letters</i> , 2018, 20, 6480-6484.	2.4	23
14	Electrophilic halogenation of hydrazones of CF ₃ -ynones. Regioselective synthesis of 4-halo-substituted 3-CF ₃ -pyrazoles. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 7935-7946.	1.5	19
15	A Toolbox Approach To Construct Broadly Applicable Metal-Free Catalysts for Photoredox Chemistry: Deliberate Tuning of Redox Potentials and Importance of Halogens in Donor–Acceptor Cyanoarenes. <i>Journal of the American Chemical Society</i> , 2018, 140, 15353-15365.	6.6	435
16	Synthesis of Diverse $\hat{\pm}$ -Fluoroalkoxyaryl Derivatives and Their Use for the Generation of Fluorinated Macrocycles. <i>Chemistry - A European Journal</i> , 2019, 25, 1184-1187.	1.7	4
17	One-pot synthesis of tertiary alkyl fluorides from methyl oxalates by radical deoxyfluorination under photoredox catalysis. <i>Tetrahedron Letters</i> , 2018, 59, 4387-4391.	0.7	22
18	Alkylamination of Styrenes with Alkyl <i>N</i> -Hydroxyphthalimide Esters and Amines by B(C ₆ H ₅) ₃ -Facilitated Photoredox Catalysis. <i>Organic Letters</i> , 2018, 20, 6659-6662.	2.4	60

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19	Exploring physicochemical space <i>via</i> a bioisostere of the trifluoromethyl and ethyl groups (BITE): attenuating lipophilicity in fluorinated analogues of Gilenya® for multiple sclerosis. <i>Chemical Communications</i> , 2018, 54, 12002-12005.	2.2	38
20	Discovery of Novel 7-Aryl 7-Deazapurine 3-Deoxy-ribofuranosyl Nucleosides with Potent Activity against <i>Trypanosoma cruzi</i> . <i>Journal of Medicinal Chemistry</i> , 2018, 61, 9287-9300.	2.9	37
21	Novel ¹⁸ F-Labeled PET Imaging Agent FV45 Targeting the Renin-Angiotensin System. <i>ACS Omega</i> , 2018, 3, 10460-10470.	1.6	11
22	<i>In Vitro</i> and <i>In Vivo</i> Activity of Peptidomimetic Compounds That Target the Periodontal Pathogen <i>Porphyromonas gingivalis</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	1.4	15
23	Photocatalyzed Intermolecular Aminodifluoromethylphosphonation of Alkenes: Facile Synthesis of α,β -Difluoro- α -aminophosphonates. <i>Chemistry - A European Journal</i> , 2018, 24, 14363-14367.	1.7	26
24	3-Fluoro-4-hydroxyprolines: Synthesis, Conformational Analysis, and Stereoselective Recognition by the VHL E3 Ubiquitin Ligase for Targeted Protein Degradation. <i>Journal of the American Chemical Society</i> , 2018, 140, 9299-9313.	6.6	102
25	Metallaphotoredox Difluoromethylation of Aryl Bromides. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12543-12548.	7.2	136
26	Metallaphotoredox Difluoromethylation of Aryl Bromides. <i>Angewandte Chemie</i> , 2018, 130, 12723-12728.	1.6	28
27	The CF ₃ -DAST-induced deacylative trifluoromethylthiolation of cyclic 1,3-diketones/lactams/lactones and its extension to deacylative pentafluorophenylthiolation. <i>Chemical Communications</i> , 2018, 54, 8761-8764.	2.2	14
28	Zinc-Mediated Decarboxylative Alkylation of <i>Gem</i> -difluoroalkenes. <i>Organic Letters</i> , 2018, 20, 4579-4583.	2.4	82
29	Palladium-catalyzed synthesis of 3-trifluoromethylated 1,3-dienes from acrylate derivatives and BTP. <i>Tetrahedron</i> , 2018, 74, 6033-6040.	1.0	9
30	Transition-Metal-Free Decarboxylation of 3,3,3-Trifluoro-2,2-dimethylpropanoic Acid for the Preparation of C(CF ₃) ₃ Me ₂ -Containing Heteroarenes. <i>Organic Letters</i> , 2018, 20, 5497-5501.	2.4	85
31	Fluorocyclisation via I(I)/I(III) catalysis: a concise route to fluorinated oxazolines. <i>Beilstein Journal of Organic Chemistry</i> , 2018, 14, 1021-1027.	1.3	37
32	Fluorinated Analogues of Desferrioxamine B from Precursor-Directed Biosynthesis Provide New Insight into the Capacity of DesBCD. <i>ACS Chemical Biology</i> , 2018, 13, 2456-2471.	1.6	11
33	Discovery of Novel Topoisomerase II Inhibitors by Medicinal Chemistry Approaches. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 8947-8980.	2.9	79
34	Direct heterobenzylic fluorination, difluorination and trifluoromethylthiolation with dibenzenesulfonamide derivatives. <i>Chemical Science</i> , 2018, 9, 5608-5613.	3.7	42
35	A visible-light-irradiated electron donor-acceptor complex-promoted radical reaction system for the C-H perfluoroalkylation of quinolin-4-ols. <i>Tetrahedron Letters</i> , 2019, 60, 151046.	0.7	12
36	Catalytic Asymmetric Umpolung Allylation/2-Aza-Cope Rearrangement for the Construction of β -Trifluoromethyl Homoallylic Amines. <i>Organic Letters</i> , 2019, 21, 6940-6945.	2.4	42

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37	Synthesis of polyfluoroalkyl sp ² -iminosugar glycolipids and evaluation of their immunomodulatory properties towards anti-tumor, anti-leishmanial and anti-inflammatory therapies. <i>European Journal of Medicinal Chemistry</i> , 2019, 182, 111604.	2.6	18
38	Fluorine containing cyclopropanes: synthesis of aryl substituted all- <i>cis</i> 1,2,3-trifluorocyclopropanes, a facially polar motif. <i>Chemical Communications</i> , 2019, 55, 10539-10542.	2.2	35
39	Stereocontrolled Synthesis of Tetrafluoropentanol: Multivincinal Fluorinated Alkane Units for Drug Discovery. <i>Organic Letters</i> , 2019, 21, 7741-7745.	2.4	20
40	A Metallaphotoredox Strategy for the Cross-Electrophile Coupling of α -Chloro Carbonyls with Aryl Halides. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14584-14588.	7.2	76
41	Asymmetric Difluoromethylthiolation of Carbon Nucleophiles with Optically Pure Difluoromethylthiolating Reagents Derived from Camphorsultam. <i>Chinese Journal of Chemistry</i> , 2019, 37, 1041-1050.	2.6	28
42	Visible-light-triggered direct keto-difluoroacetylation of styrenes with (fluorosulfonyl)difluoroacetate and dimethyl sulfoxide leads to α -difluoroacetylated ketones. <i>Chemical Communications</i> , 2019, 55, 10980-10983.	2.2	19
43	Saturated spirocyclic nitrogen-containing heterocycles with gem-difluorocycloalkane moieties (microreview). <i>Chemistry of Heterocyclic Compounds</i> , 2019, 55, 692-694.	0.6	1
44	Selective C-F Functionalization of Unactivated Trifluoromethylarenes. <i>Journal of the American Chemical Society</i> , 2019, 141, 13203-13211.	6.6	171
45	Novel Diphenylamine Analogs Induce Mesenchymal to Epithelial Transition in Triple Negative Breast Cancer. <i>Frontiers in Oncology</i> , 2019, 9, 672.	1.3	18
46	Selective Defluoroallylation of Trifluoromethylarenes. <i>Journal of the American Chemical Society</i> , 2019, 141, 14120-14125.	6.6	97
47	Hydroxyl- and Halogen-containing Chalcones for the Inhibition of LPS-stimulated ROS Production in RAW 264.7 Macrophages: Design, Synthesis and Structure-Activity Relationship Study. <i>Bulletin of the Korean Chemical Society</i> , 2019, 40, 729-734.	1.0	4
48	1,2-Bis(trifluoromethyl)ation of Alkynes: A One-Step Reaction to Install an Underutilized Functional Group. <i>Angewandte Chemie</i> , 2019, 131, 11830-11834.	1.6	7
49	Nickel/NHC-Catalyzed Asymmetric C-H Alkylation of Fluoroarenes with Alkenes: Synthesis of Enantioenriched Fluorotetralins. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13433-13437.	7.2	74
50	Nickel/NHC-Catalyzed Asymmetric C-H Alkylation of Fluoroarenes with Alkenes: Synthesis of Enantioenriched Fluorotetralins. <i>Angewandte Chemie</i> , 2019, 131, 13567-13571.	1.6	26
51	Fluorinated Analogues of the Histone Deacetylase Inhibitor Vorinostat (Zolinza): Validation of a Chiral Hybrid Bioisostere, BITE. <i>ACS Medicinal Chemistry Letters</i> , 2019, 10, 1336-1340.	1.3	30
52	Fluoroalkylation Methods for Synthesizing Versatile Building Blocks. <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 1245-1262.	2.0	25
53	Nickel-Catalyzed Difluoroalkylation-Alkylation of Enamides. <i>ACS Catalysis</i> , 2019, 9, 8224-8229.	5.5	73
54	An enzymatic Finkelstein reaction: fluorinase catalyses direct halogen exchange. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 7493-7496.	1.5	14

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55	Asymmetric Synthesis of Fluoro ¹⁹ F-MLN4924 as a Selective NEDD8 ¹ -Activating Enzyme (NAE) Inhibitor. Asian Journal of Organic Chemistry, 2019, 8, 1641-1647.	1.3	2
56	Dual Roles of <i>tert</i> -Butyl Nitrite in the Transition Metal- and External Oxidant-Free Trifluoromethyloximation of Alkenes. ChemSusChem, 2019, 12, 3960-3966.	3.6	17
57	Enantioselective Benzoylation and Allylation of β -Trifluoromethoxy Indanones under Phase-Transfer Catalysis. Molecules, 2019, 24, 2774.	1.7	6
58	Chalcogen OCF ₃ Isosteres Modulate Drug Properties without Introducing Inherent Liabilities. ChemMedChem, 2019, 14, 1586-1589.	1.6	32
59	Facilitating the transmetalation step with aryl-zincates in nickel-catalyzed enantioselective arylation of secondary benzylic halides. Nature Communications, 2019, 10, 2963.	5.8	44
60	Synthesis of 5-(Fluoroalkyl)isoxazole Building Blocks by Regioselective Reactions of Functionalized Halogenoximes. Journal of Organic Chemistry, 2019, 84, 15877-15899.	1.7	26
61	Construction of pyrrole- and indole-fused CF ₃ -piperazine derivatives. Journal of Fluorine Chemistry, 2019, 226, 109361.	0.9	3
62	Copper-Catalyzed Enantioselective Formation of β -CF ₃ Centers from β -Substituted Acrylates and Acrylonitriles. Chemistry - A European Journal, 2019, 25, 15262-15266.	1.7	17
63	One-Pot Metal-Free Synthesis of 3-CF ₃ -1,3-Oxazinopyridines by Reaction of Pyridines with CF ₃ CO-Acetylenes. Molecules, 2019, 24, 3594.	1.7	12
64	Copper-Catalyzed Highly Enantioselective Difluoroalkylation of Secondary Propargyl Sulfonates with Difluoroenoxy silanes. Chem, 2019, 5, 2987-2999.	5.8	79
65	Synthesis of bicyclo[3.1.0]hexanes by (3 + 2) annulation of cyclopropenes with aminocyclopropanes. Chemical Science, 2019, 10, 10716-10722.	3.7	58
66	Direct and Chemoselective Synthesis of Tertiary Difluoroketones via Weinreb Amide Homologation with a CHF ₂ -Carbene Equivalent. Organic Letters, 2019, 21, 8261-8265.	2.4	53
67	A Metallaphotoredox Strategy for the Cross-Electrophile Coupling of β -Chloro Carbonyls with Aryl Halides. Angewandte Chemie, 2019, 131, 14726-14730.	1.6	19
68	Hydrotrifluoromethylthiolation of Unactivated Alkenes and Alkynes with Trifluoromethanesulfonic Anhydride through Deoxygenative Reduction and Photoredox Radical Processes. Angewandte Chemie - International Edition, 2019, 58, 18508-18512.	7.2	36
69	Gold-Catalyzed Hydrofluorination of Internal Alkynes Using Aqueous HF. Organic Letters, 2019, 21, 9024-9027.	2.4	40
70	Hydrotrifluoromethylthiolation of Unactivated Alkenes and Alkynes with Trifluoromethanesulfonic Anhydride through Deoxygenative Reduction and Photoredox Radical Processes. Angewandte Chemie, 2019, 131, 18679-18683.	1.6	9
71	How Significant Are Unusual Protein-Ligand Interactions? Insights from Database Mining. Journal of Medicinal Chemistry, 2019, 62, 10441-10455.	2.9	42
72	N-Arylation of Fluoroalkylamine and Trifluoroacetamide through Cu-Catalysis. ChemistrySelect, 2019, 4, 12124-12127.	0.7	0

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73	Regioselective Synthesis of Functionalized 3- or 5-Fluoroalkyl Isoxazoles and Pyrazoles from Fluoroalkyl Ynones and Binucleophiles. <i>Journal of Organic Chemistry</i> , 2019, 84, 15212-15225.	1.7	22
74	Novel Benzohydroxamate-Based Potent and Selective Histone Deacetylase 6 (HDAC6) Inhibitors Bearing a Pentaheterocyclic Scaffold: Design, Synthesis, and Biological Evaluation. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 10711-10739.	2.9	36
75	A Convenient Synthesis of Difluoroalkyl Ethers from Thionoesters Using Silver(I) Fluoride. <i>Chemistry - A European Journal</i> , 2019, 25, 15993-15997.	1.7	15
76	Unsaturated α -Amino β -Carboxymethyl γ -Lactams as Bacterial PBP Inhibitors: Synthesis and Biochemical Assessment. <i>Chemistry - A European Journal</i> , 2019, 25, 16128-16140.	1.7	10
77	Engineering Fluorine into Verticillins (Epipolythiodioxopiperazine Alkaloids) via Precursor-Directed Biosynthesis. <i>Journal of Natural Products</i> , 2019, 82, 3104-3110.	1.5	11
78	Synthesis of 5-((Pentafluorosulfonyl)methyl)- γ -butyrolactones via a Silver-Promoted Intramolecular Cyclization Reaction. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 6655-6665.	1.2	11
79	Ex Vivo Analysis of Tryptophan Metabolism Using ^{19}F NMR. <i>ACS Chemical Biology</i> , 2019, 14, 1866-1873.	1.6	5
80	Design of fluorinated cyclopropane derivatives of 2-phenylcyclopropylmethylamine leading to identification of a selective serotonin 2C (5-HT _{2C}) receptor agonist without 5-HT _{2B} agonism. <i>European Journal of Medicinal Chemistry</i> , 2019, 182, 111626.	2.6	3
81	Diastereoselective Monofluorocyclopropanation Using Fluoromethylsulfonium Salts. <i>Organic Letters</i> , 2019, 21, 7174-7178.	2.4	22
82	Nickel-Catalyzed Enantioselective Reductive Aryl Fluoroalkenylation of Alkenes. <i>ACS Catalysis</i> , 2019, 9, 9127-9133.	5.5	122
83	Fluorine-containing substituents: metabolism of the α,β -difluoroethyl thioether motif. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 1441-1447.	1.3	10
84	Catalytic Asymmetric Synthesis of α,β -Difluoromethylated and α -Fluoromethylated Tertiary Alcohols. <i>Organic Letters</i> , 2019, 21, 7509-7513.	2.4	11
85	Three-component difluoroalkylamination of alkenes mediated by photoredox and iron cooperative catalysis. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 8541-8545.	1.5	18
86	Fluorocyclization of <i>N</i> -Propargylamides to Oxazoles by Electrochemically Generated ArF_2 . <i>Organic Letters</i> , 2019, 21, 7893-7896.	2.4	69
87	A Unified Strategy for the Synthesis of Difluoromethyl- and Vinylfluoride-Containing Scaffolds. <i>Organic Letters</i> , 2019, 21, 8205-8210.	2.4	18
88	Recent Progress on the Synthesis of CF ₂ H-Containing Derivatives. <i>Synthesis</i> , 2019, 51, 4549-4567.	1.2	54
89	Metal- and additive-free cascade trifluoroethylation/cyclization of organic isoselenocyanates by phenyl(2,2,2-trifluoroethyl)iodonium triflate. <i>Journal of Fluorine Chemistry</i> , 2019, 226, 109360.	0.9	9
90	Difluoro-Substituted Bicyclo[1.1.1]pentanes for Medicinal Chemistry: Design, Synthesis, and Characterization. <i>Journal of Organic Chemistry</i> , 2019, 84, 15106-15117.	1.7	73

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91	Trifluorinated Pyrimidine-Based A ₂ B Antagonists: Optimization and Evidence of Stereospecific Recognition. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 9315-9330.	2.9	15
92	Modular synthesis of $\hat{\pm}$ -fluorinated arylmethanes via desulfonylative cross-coupling. <i>Nature Communications</i> , 2019, 10, 4528.	5.8	45
93	A primer of deuterium in drug design. <i>Future Medicinal Chemistry</i> , 2019, 11, 2039-2042.	1.1	63
94	Rhodium catalysed enantioselective synthesis of mono-(halo)-methyl-cyclopropanes. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 472-476.	1.5	13
95	Stereospecific $\hat{\pm}$ -Glycylation by Site-Selective Fluorination. <i>Angewandte Chemie</i> , 2019, 131, 3854-3858.	1.6	11
96	Palladium(II)-Catalyzed Enantioselective Aminotrifluoromethoxylation of Unactivated Alkenes using CsOCF ₃ as a Trifluoromethoxide Source. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2392-2396.	7.2	63
97	Synthesis of ¹⁸ F-difluoromethylarenes using aryl boronic acids, ethyl bromofluoroacetate and [¹⁸ F]fluoride. <i>Chemical Science</i> , 2019, 10, 3237-3241.	3.7	36
98	Enantioselective Construction of CF ₃ -Containing Spirooxindole $\hat{\pm}$ -Lactones via Organocatalytic Asymmetric Michael/Lactonization. <i>Organic Letters</i> , 2019, 21, 1015-1020.	2.4	36
99	A Biocatalytic Platform for Synthesis of Chiral $\hat{\pm}$ -Trifluoromethylated Organoborons. <i>ACS Central Science</i> , 2019, 5, 270-276.	5.3	77
100	Synthesis of $\hat{\pm}$ -Fluoro- $\hat{\pm}$ -amino Acid Derivatives via Photoredox-Catalyzed Carbofluorination. <i>ACS Catalysis</i> , 2019, 9, 1558-1563.	5.5	76
101	Direct Catalytic Asymmetric Aldol Reaction of $\hat{\pm}$ -Alkoxyamides to $\hat{\pm}$ -Fluorinated Ketones. <i>Angewandte Chemie</i> , 2019, 131, 2481-2485.	1.6	10
102	Stereospecific $\hat{\pm}$ -Glycylation by Site-Selective Fluorination. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3814-3818.	7.2	29
103	Palladium(II)-Catalyzed Enantioselective Aminotrifluoromethoxylation of Unactivated Alkenes using CsOCF ₃ as a Trifluoromethoxide Source. <i>Angewandte Chemie</i> , 2019, 131, 2414-2418.	1.6	16
104	Second-generation 1,2,3-triazole-based inhibitors of <i>Porphyromonas gingivalis</i> adherence to oral streptococci and biofilm formation. <i>MedChemComm</i> , 2019, 10, 268-279.	3.5	11
105	Trifluoromethylation of $\hat{\pm}$ -diazoesters and $\hat{\pm}$ -diazoketones with fluoroform-derived CuCF ₃ : synergistic effects of co-solvent and pyridine as a promoter. <i>Organic Chemistry Frontiers</i> , 2019, 6, 27-31.	2.3	7
106	Challenges and Opportunities in Central Nervous System Drug Discovery. <i>Trends in Chemistry</i> , 2019, 1, 612-624.	4.4	46
107	Construction of Chiral $\hat{\pm}$ -Trifluoromethyl Alcohols Enabled by Catalytic Enantioselective Aldol-Type Reaction of CF ₃ CHN ₂ . <i>Organic Letters</i> , 2019, 21, 4280-4283.	2.4	20
108	1,2-(Bis)trifluoromethylation of Alkynes: A One-Step Reaction to Install an Underutilized Functional Group. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11704-11708.	7.2	41

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109	The Design of Potent, Selective and Drug-Like RGD β 1 Small-Molecule Inhibitors Derived from non-RGD β 1 Antagonists. <i>ChemMedChem</i> , 2019, 14, 1315-1320.	1.6	6
110	Organic Photoredox-Catalyzed Synthesis of β -Fluoromethylated Alcohols and Amines via 1,5-Hydrogen-Transfer Radical Relay. <i>Organic Letters</i> , 2019, 21, 5116-5120.	2.4	30
111	Direct arene C-H fluorination with ^{18}F via organic photoredox catalysis. <i>Science</i> , 2019, 364, 1170-1174.	6.0	120
112	3-[(1 <i>S</i> ,2 <i>S</i> ,3 <i>R</i>)-2,3-Difluoro-1-hydroxy-7-methylsulfonylindan-4-yl]oxy-5-fluorobenzonitrile (PT2977), a Hypoxia-Inducible Factor 2 β (HIF-2 β) Inhibitor for the Treatment of Clear Cell Renal Cell Carcinoma. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 6876-6893.	2.9	141
113	Enantiodivergent β -Amino C-H Fluoroalkylation Catalyzed by Engineered Cytochrome P450s. <i>Journal of the American Chemical Society</i> , 2019, 141, 9798-9802.	6.6	94
114	Inverting Small Molecule-Protein Recognition by the Fluorine Gauche Effect: Selectivity Regulated by Multiple H β F Bioisosterism. <i>Angewandte Chemie</i> , 2019, 131, 11106-11110.	1.6	8
115	A Sc(OTf) ₃ catalyzed Mukaiyama-Mannich reaction of difluoroenoxy silanes with unactivated ketimines. <i>Organic Chemistry Frontiers</i> , 2019, 6, 2500-2505.	2.3	14
116	Inverting Small Molecule-Protein Recognition by the Fluorine Gauche Effect: Selectivity Regulated by Multiple H β F Bioisosterism. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10990-10994.	7.2	23
117	Synthesis of (Difluoromethyl)cycloalkenes from α -Cycloalkenones by Utilizing Phospha-Brook Rearrangement. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 3739-3743.	2.1	13
118	Keto-Difluoromethylation of Aromatic Alkenes by Photoredox Catalysis: Step-Economical Synthesis of β -CF ₂ H-Substituted Ketones in Flow. <i>ACS Catalysis</i> , 2019, 9, 6555-6563.	5.5	42
119	Synthesis and Optimization of K _v 7 (KCNQ) Potassium Channel Agonists: The Role of Fluorines in Potency and Selectivity. <i>ACS Medicinal Chemistry Letters</i> , 2019, 10, 929-935.	1.3	16
120	Stereoselective Reduction of β -Fluoro- α -keto Esters by NADH and NADPH-Dependent Ketoreductases. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 4080-4084.	1.2	8
121	An approach to the synthesis of 3-substituted piperidines bearing partially fluorinated alkyl groups. <i>Journal of Fluorine Chemistry</i> , 2019, 224, 61-66.	0.9	7
122	A lifetime journey into the world of chemistry. <i>Tetrahedron</i> , 2019, 75, 130345.	1.0	2
123	Fluorine-Containing Drugs Approved by the FDA in 2018. <i>Chemistry - A European Journal</i> , 2019, 25, 11797-11819.	1.7	341
124	Synthesis, Derivatization, and Structural Analysis of Phosphorylated Mono-, Di-, and Trifluorinated α -Gluco-heptuloses by Glucokinase: Tunable Phosphoglucomutase Inhibition. <i>ACS Omega</i> , 2019, 4, 7029-7037.	1.6	9
125	One-pot preparation of (RSe)2CF ₂ and (RS)2CF ₂ compounds via insertion of TMSCF ₃ -derived difluorocarbene into diselenides and disulfides. <i>Tetrahedron</i> , 2019, 75, 4167-4173.	1.0	13
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387	<i>N</i> -Trifluoromethyl Hydrazines, Indoles and Their Derivatives. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11908-11912.	7.2	39
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501	Palladium-Catalyzed Defluorinative Alkylation of <i>gem</i> -Difluorocyclopropanes: Switching Regioselectivity via Simple Hydrazones. <i>Angewandte Chemie</i> , 2021, 133, 13208-13214.	1.6	7
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783	Iridium(I)-catalyzed deoxygenation of fluoroalkylsulfoxides with dimethyl diazomalonate to access fluoroalkylthioethers. <i>Chinese Chemical Letters</i> , 2022, 33, 4865-4869.	4.8	1
784	Photoredox-Catalyzed Allylic Defluorinative Alkoxyacylation of Trifluoromethyl Alkenes through Intermolecular Alkoxyacyl Radical Addition. <i>Organic Letters</i> , 2022, 24, 1471-1475.	2.4	30
785	Hydrogen Bonding Phase-Transfer Catalysis with Alkali Metal Fluorides and Beyond. <i>Journal of the American Chemical Society</i> , 2022, 144, 5200-5213.	6.6	28
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812	A Carbene Strategy for Progressive (Deutero)Hydrodefluorination of Fluoroalkyl Ketones. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	9
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816	A Carbene Strategy for Progressive (Deutero)Hydrodefluorination of Fluoroalkyl Ketones. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	27
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876	A Practical and Scalable Approach to Fluoro-Substituted Bicyclo[1.1.1]pentanes. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	46
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1116	Organocatalytic Synthesis of Chiral Halogenated Compounds. <i>Chemical Record</i> , 2023, 23, .	2.9	3
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1144	Visible-light-promoted defluorinated alkylation of trifluoromethyl alkenes initiated by radical [1,2]-Brook rearrangement: facile synthesis of gem-difluoro homoallylic alcohol derivatives. <i>Organic Chemistry Frontiers</i> , 2023, 10, 1981-1987.	2.3	5
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1153	Photocatalyst-Free, Visible-Light-Mediated C-H Perfluoroalkylation of Quinazolin-4(3H)-ones with perfluoroalkyl Iodides. <i>Synthesis</i> , 0, , .	1.2	0

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1155	Recent Advances in the Syntheses of <i>N</i> -CF ₃ Scaffolds up to Their Valorization. <i>Chemical Record</i> , 2023, 23, .	2.9	4
1156	Drug discovery: Chaos can be your friend or your enemy. , 2023, , 417-511.		2
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1159	Photocatalyzed $2\pi+2$ Coupling of Styrene and BrCF ₂ CO ₂ Me: A Facile Synthesis of Bis-difluoroacetylated Hexestrol Derivatives. <i>Chinese Journal of Organic Chemistry</i> , 2023, 43, 1157.	0.6	0
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1167	Applications of Bioisosteres in the Design of Biologically Active Compounds. <i>Journal of Agricultural and Food Chemistry</i> , 2023, 71, 18087-18122.	2.4	16
1168	A Brief Review on the Synthesis of the N-CF ₃ Motif in Heterocycles. <i>Molecules</i> , 2023, 28, 3012.	1.7	7
1169	Trifluoromethylated Oxidopyridinium Betaines: Unique (5+2) Cycloaddition Selectivity Imposed by α - or β -trifluoromethyl Groups. <i>Chemistry - an Asian Journal</i> , 0, , .	1.7	1
1170	11Câ€”Cyanation of Aryl Fluorides via Nickel and Lithium Chlorideâ€”Mediated Câ€”F Bond Activation. <i>Angewandte Chemie</i> , 0, , .	1.6	0
1171	A Convenient Synthesis of 5-Trifluoromethyl-5-cyclopropyl-Substituted Pyrazolines. <i>Heterocycles</i> , 2023, 106, 716.	0.4	0

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1172	Synthesis of Chiral 1,1,1-Trifluoro- <i>gem</i> -disubstituted 2,4-Diketones via Palladium-Catalyzed Asymmetric Allylation. <i>Organic Letters</i> , 2023, 25, 2388-2393.	2.4	3
1173	The Discovery and Development of MK-1454, a Therapeutic Cyclic Dinucleotide STING Agonist. , 2022, , .		0
1175	Indium mediated barbier-type allylation: Synthesis of highly functionalized homoallylic difluorohydrins. <i>Tetrahedron</i> , 2023, 140, 133385.	1.0	3
1176	“Magic Chloro”: Profound Effects of the Chlorine Atom in Drug Discovery. <i>Journal of Medicinal Chemistry</i> , 2023, 66, 5305-5331.	2.9	29
1177	Chemo-, Stereo- and Regioselective Fluoroallylation/Annulation of Hydrazones with <i>gem</i> -difluorocyclopropanes via Tunable Palladium/NHC Catalysis. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	17
1178	Chemo-, Stereo- and Regioselective Fluoroallylation/Annulation of Hydrazones with <i>gem</i> -difluorocyclopropanes via Tunable Palladium/NHC Catalysis. <i>Angewandte Chemie</i> , 0, , .	1.6	2
1179	N-Heterocyclic carbenes as privileged ligands for nickel-catalysed alkene functionalisation. <i>Chemical Society Reviews</i> , 2023, 52, 2946-2991.	18.7	26
1180	Visible-Light Photoredox-catalyzed Coupling of Alkylsulfones with <i>gem</i> -(Trifluoromethyl)styrenes. <i>Canadian Journal of Chemistry</i> , 0, , .	0.6	0
1181	Cascade Oxidative Trifluoromethylthiolation and Cyclization of 3-Alkyl-1-(2-(alkynyl)phenyl)indoles. <i>Journal of Organic Chemistry</i> , 2023, 88, 5403-5419.	1.7	3
1182	Discovery of Novel Sesquiterpene Lactone Derivatives as Potent PKM2 Activators for the Treatment of Ulcerative Colitis. <i>Journal of Medicinal Chemistry</i> , 2023, 66, 5500-5523.	2.9	1
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1184	Expanding Reaction Profile of Allyl Carboxylates via 1,2-Radical Migration (RaM): Visible-Light-Induced Phosphine-Catalyzed 1,3-Carbobromination of Allyl Carboxylates. <i>Journal of the American Chemical Society</i> , 0, , .	6.6	2
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1186	A diselenide additive enables photocatalytic hydroalkoxylation of <i>gem</i> -difluoroalkenes. <i>Chemical Communications</i> , 2023, 59, 5623-5626.	2.2	3
1187	Stereospecific Dehydroxytrifluoromethylthiolation of Alcohols Promoted by a Combination of Hypervalent Trifluoromethylthio-iodine(III) Reagent and N-Heterocyclic Carbene. <i>Organic Letters</i> , 2023, 25, 2964-2969.	2.4	1
1188	Assembly of trifluoroethyl benzo[a]fluorenyl ether architecture directly from non-aromatic precursors (1,6-enynes) in the presence of aryldiazonium salts and 2,2,2-trifluoroethanol. <i>Tetrahedron</i> , 2023, 138, 133417.	1.0	1
1189	Nickel-catalyzed reductive coupling reaction of monofluoroalkyl triflates with alkyl carboxylic acids toward the synthesis of <i>gem</i> -alkyl-fluoro-alkylketones. <i>Chinese Chemical Letters</i> , 2023, 34, 108490.	4.8	0
1192	Chromium-Catalyzed Three-Component Synthesis of Monofluoroalkenes from <i>gem</i> -Difluoroalkenes via C=O/C-H and C-F Bond Activation. <i>Organic Letters</i> , 2023, 25, 3120-3125.	2.4	3

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1211	Nickel-Catalyzed Hydrotrifluoroalkylation of Alkynes to Construct Allylic Trifluoromethyl Terminal Alkenes. <i>Organic Letters</i> , 2023, 25, 3578-3584.	2.4	0
1212	BF ₃ -Catalyzed Intramolecular Fluorocarbonylation of Alkynes via Halide Recycling. <i>Journal of the American Chemical Society</i> , 2023, 145, 11012-11018.	6.6	16
1213	Visible-Light-Induced Stoichiometric Coupling of Alkylarenes and Trifluoromethyl Ketones. <i>Organic Letters</i> , 2023, 25, 3800-3805.	2.4	6
1219	Deuterium in drug discovery: progress, opportunities and challenges. <i>Nature Reviews Drug Discovery</i> , 2023, 22, 562-584.	21.5	51
1220	Synthesis of 2-Difluoroethylated 2 <i>H</i> -1,3-Benzoxazines via Proton-Mediated Ring Opening/Interrupted Ritter Reaction of 1,1-Difluorocyclopropanes. <i>Organic Letters</i> , 2023, 25, 4276-4280.	2.4	0
1231	Future challenges and opportunities with fluorine in drugs?. <i>Medicinal Chemistry Research</i> , 2023, 32, 1231-1234.	1.1	1
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1254	Ruthenium-Catalyzed Ligand-Enabled Regiodivergent Difluoroallylation of Aryl C-H Bonds. <i>Organic Letters</i> , 2023, 25, 3870-3875.	2.4	2
1272	Room temperature deoxofluorination of aromatic aldehydes with XtalFluor-E under highly concentrated conditions. <i>Organic and Biomolecular Chemistry</i> , 0, , .	1.5	0
1299	Combining Hydrodefluorination and Defluorophosphorylation for Chemo- and Stereoselective Synthesis of <i>gem</i> -Fluorophosphine Alkenes. <i>Organic Letters</i> , 2023, 25, 6368-6373.	2.4	1
1329	C-F bond functionalizations <i>via</i> fluorinated carbenes. <i>Organic Chemistry Frontiers</i> , 0, , .	2.3	0
1372	A selective and mild electrochemical defluorinative carboxylation for late-stage C(sp ³)-F bond functionalization. <i>Green Chemistry</i> , 2023, 25, 9075-9079.	4.6	3
1378	Catalyst- and additive-free cascade radical addition/cyclization of <i>N</i> -arylacrylamides with trifluoropyruvates. <i>Chemical Communications</i> , 2023, 59, 13462-13465.	2.2	4
1385	Synthesis of functionalized sulfilimines <i>via</i> iron-catalyzed sulfur alkylation of sulfenamides with diazo compounds. <i>Green Chemistry</i> , 2023, 25, 9092-9096.	4.6	3
1404	Enyne difluorination. <i>Nature Chemistry</i> , 2023, 15, 1484-1485.	6.6	0

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1439	Palladium-catalyzed carbomonofluoromethylation of unactivated alkenes: a rapid access to β -monofluoromethyl carboxylic acid derivatives. Chemical Communications, 0, , .	2.2	0