

Ji-Chang Xiao

List of Publications by Year in descending order

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109
papers

4,745
citations

94269

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106150

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docs citations

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times ranked

3135
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#	ARTICLE	IF	CITATIONS
1	Copper-Mediated Trifluoromethylation of Heteroaromatic Compounds by Trifluoromethyl Sulfonium Salts. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1896-1900.	7.2	298
2	Synthesis and decarboxylative Wittig reaction of difluoromethylene phosphobetaine. <i>Chemical Communications</i> , 2013, 49, 7513.	2.2	216
3	Review of recent advances in CF bond activation of aliphatic fluorides. <i>Journal of Fluorine Chemistry</i> , 2015, 179, 14-22.	0.9	208
4	An Ionic Liquid-Coordinated Palladium Complex: A Highly Efficient and Recyclable Catalyst for the Heck Reaction. <i>Organic Letters</i> , 2004, 6, 3845-3847.	2.4	173
5	Synthesis of 2,2'-Bimidazolium-Based Ionic Liquids: Use as a New Reaction Medium and Ligand for Palladium-Catalyzed Suzuki Cross-Coupling Reactions. <i>Journal of Organic Chemistry</i> , 2005, 70, 3072-3078.	1.7	164
6	Direct Trifluoromethylthiolation of Unactivated C(sp ³) ₃ H Using Silver(I) Trifluoromethanethiolate and Potassium Persulfate. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4070-4074.	7.2	153
7	Conversion between Difluorocarbene and Difluoromethylene Ylide. <i>Chemistry - A European Journal</i> , 2013, 19, 15261-15266.	1.7	151
8	Contemporary synthetic strategies in organofluorine chemistry. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	134
9	Difluoromethylation and gem-difluorocyclopropanation with difluorocarbene generated by decarboxylation. <i>Chemical Communications</i> , 2015, 51, 8805-8808.	2.2	114
10	Difluorocarbene-Derived Trifluoromethylthiolation and [¹⁸ F]Trifluoromethylthiolation of Aliphatic Electrophiles. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13236-13240.	7.2	110
11	Cross-Coupling between Difluorocarbene and Carbene-Derived Intermediates Generated from Diazocompounds for the Synthesis of gem-Difluoroolefins. <i>Organic Letters</i> , 2015, 17, 6150-6153.	2.4	107
12	N-Heterocyclic Carbene-Catalyzed Reaction of Alkynyl Aldehydes with 1,3-Keto Esters or 1,3-Diketones. <i>Advanced Synthesis and Catalysis</i> , 2010, 352, 2455-2458.	2.1	104
13	An overview of reductive trifluoromethylation reactions using electrophilic CF_3^+ reagents. <i>Tetrahedron</i> , 2015, 71, 7949-7976.	1.0	103
14	Reaction of Thiocarbonyl Fluoride Generated from Difluorocarbene with Amines. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16669-16673.	7.2	103
15	Pd-Catalyzed Transfer of Difluorocarbene. <i>Organic Letters</i> , 2016, 18, 4384-4387.	2.4	100
16	Arenesulfonyl Fluoride Synthesis via Copper-Catalyzed Fluorosulfonylation of Arenediazonium Salts. <i>Organic Letters</i> , 2020, 22, 2281-2286.	2.4	99
17	An Unconventional Mechanistic Insight into SCF ₃ Formation from Difluorocarbene: Preparation of ¹⁸ F-Labeled CF_3 Carbonyl Compounds. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3196-3200.	7.2	88
18	Difluoromethylation and trifluoromethylation reagents derived from tetrafluoroethane $\hat{\text{I}}^2$ -sultone: Synthesis, reactivity and applications. <i>Coordination Chemistry Reviews</i> , 2014, 261, 28-72.	9.5	86

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19	Nucleophilic arylation with tetraarylphosphonium salts. <i>Nature Communications</i> , 2016, 7, 10337.	5.8	82
20	2,2,2-Trifluoroethylation of Styrenes with Concomitant Introduction of a Hydroxyl Group from Molecular Oxygen by Photoredox Catalysis Activated by Visible Light. <i>Organic Letters</i> , 2015, 17, 4714-4717.	2.4	81
21	Basic Ionic Liquids: Facile Solvents for Carbon-Carbon Bond Formation Reactions and Ready Access to Palladium Nanoparticles. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 5095-5100.	1.2	79
22	Fluorinated Ylides/Carbenes and Related Intermediates from Phosphonium/Sulfonium Salts. <i>Accounts of Chemical Research</i> , 2020, 53, 1498-1510.	7.6	75
23	Halogenation through Deoxygenation of Alcohols and Aldehydes. <i>Organic Letters</i> , 2018, 20, 3061-3064.	2.4	73
24	Monofluorovinyl Tosylate: A Useful Building Block for the Synthesis of Terminal Vinyl Monofluorides via Suzuki-Miyaura Coupling. <i>Organic Letters</i> , 2011, 13, 560-563.	2.4	68
25	Bipyridinium Ionic Liquid-Promoted Cross-Coupling Reactions between Perfluoroalkyl or Pentafluorophenyl Halides and Aryl Iodides. <i>Organic Letters</i> , 2005, 7, 1963-1965.	2.4	67
26	Photocatalyzed Cyanodifluoromethylation of Alkenes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6079-6083.	7.2	66
27	Trifluoromethylfluorosulfonylation of Unactivated Alkenes Using Readily Available $\text{Ag}(\text{OCCF}_2\text{SO}_2\text{F})_2$ and <i>N</i> -Fluorobenzenesulfonimide. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15432-15435.	7.2	63
28	Direct Nucleophilic Difluoromethylation of Carbonyl Compounds. <i>Organic Letters</i> , 2016, 18, 3206-3209.	2.4	61
29	Diastereoselective Johnson-Corey-Chaykovsky trifluoroethylidenation. <i>Chemical Communications</i> , 2015, 51, 13127-13130.	2.2	52
30	Decarboxylative Julia-Kocienski gem-difluoroolefination of 2-pyridinyl Sulfonyldifluoroacetate. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 928-932.	1.2	50
31	A Trifluoromethylcarbene Source. <i>Organic Letters</i> , 2016, 18, 2471-2474.	2.4	49
32	Copper-catalyzed trifluoromethylation of alkenes with an electrophilic trifluoromethylating reagent. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 2635-2640.	1.3	48
33	Wittig gem-difluoroolefination of aldehydes with difluoromethyltriphenylphosphonium bromide. <i>Journal of Fluorine Chemistry</i> , 2014, 163, 38-41.	0.9	47
34	Stereoselectivity in <i>N</i> -Iminium Ion Cyclization: Development of an Efficient Synthesis of (\pm)-Cephalotaxine. <i>Organic Letters</i> , 2015, 17, 4444-4447.	2.4	43
35	Cu-Catalyzed C-H Trifluoromethylation of 3-Arylprop-1-yne for the Selective Construction of Allenic Csp ² -CF ₃ and Propargyl Csp ³ -CF ₃ Bonds. <i>Organic Letters</i> , 2016, 18, 1000-1003.	2.4	41
36	Oxidation of difluorocarbene and subsequent trifluoromethoxylation. <i>Nature Communications</i> , 2019, 10, 5362.	5.8	40

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37	Transition-metal difluorocarbene complexes. <i>Chemical Communications</i> , 2021, 57, 9316-9329.	2.2	39
38	Copper-catalyzed tandem trifluoromethylation/cyclization of internal alkynes. <i>Organic Chemistry Frontiers</i> , 2014, 1, 1280-1284.	2.3	38
39	A Readily Available Trifluoromethylation Reagent and Its Difunctionalization of Alkenes. <i>Organic Letters</i> , 2021, 23, 6079-6083.	2.4	37
40	The Asymmetric Friedel-Crafts Reaction of Indoles with Fluoroalkylated Nitroalkenes Catalyzed by Chiral Phosphoric Acid. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 4536-4539.	1.2	35
41	Difluoromethylcarbene for iron-catalyzed cyclopropanation. <i>Chemical Communications</i> , 2017, 53, 3870-3873.	2.2	34
42	Difluorocarbene for Dehydroxytrifluoromethylthiolation of Alcohols. <i>Journal of Organic Chemistry</i> , 2017, 82, 11206-11211.	1.7	33
43	Rapid Dehydroxytrifluoromethoxylation of Alcohols. <i>IScience</i> , 2018, 5, 110-117.	1.9	32
44	Starting from Styrene: A Unified Protocol for Hydrotrifluoromethylation of Diversified Alkenes. <i>Organic Letters</i> , 2021, 23, 9277-9282.	2.4	32
45	Enantioselective aldol reaction of cyclic ketones with aryl aldehydes catalyzed by a cyclohexanediamine derived salt in the presence of water. <i>Green Chemistry</i> , 2009, 11, 1750.	4.6	31
46	Difluorocarbene-derived trifluoromethylselenolation of benzyl halides. <i>Chemical Communications</i> , 2019, 55, 1410-1413.	2.2	30
47	Dehydroxylative Trifluoromethylthiolation, Trifluoromethylation, and Difluoromethylation of Alcohols. <i>Chinese Journal of Chemistry</i> , 2020, 38, 169-172.	2.6	30
48	Chemistry of Difluorocarbene: Synthesis and Conversion of Difluoro(methylene)cyclopropanes. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 5581-5587.	1.2	28
49	Highly Regio- and Stereoselective Diels-Alder Cycloaddition of Difluoro(methylene)cyclopropanes. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 1101-1106.	1.2	28
50	Dehydroxylation of alcohols for nucleophilic substitution. <i>Chemical Communications</i> , 2018, 54, 7034-7037.	2.2	28
51	Visible-light-induced radical hydrodifluoromethylation of alkenes. <i>Organic Chemistry Frontiers</i> , 2019, 6, 3580-3583.	2.3	27
52	Ag-Mediated Trifluoromethylthiolation of Inert Csp ³ -H Bond. <i>Journal of Organic Chemistry</i> , 2018, 83, 14120-14125.	1.7	26
53	Dehydroxylative Fluorination of Tertiary Alcohols. <i>Organic Letters</i> , 2020, 22, 6642-6646.	2.4	26
54	A General, Regiospecific Synthetic Route to Perfluoroalkylated Arenes via Arenediazonium Salts with R ₃ FCu(CH ₃ CN) Complexes. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 6303-6309.	1.2	24

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55	A novel pyrrolidinium ionic liquid with 1,1,2,2-tetrafluoro-2-(1,1,2,2-tetrafluoroethoxy)ethanesulfonate anion as a recyclable reaction medium and efficient catalyst for Friedel-Crafts alkylations of indoles with nitroalkenes. <i>Journal of Fluorine Chemistry</i> , 2009, 130, 394-398.	0.9	23
56	Electrophilic Reaction of Ag(III) N-Confused Porphyrin with Alcohols. <i>Journal of Organic Chemistry</i> , 2010, 75, 3511-3514.	1.7	23
57	Pd^{II} -Catalyzed Transfer of Difluorocarbene for Three Component Cross-Coupling. <i>Chinese Journal of Chemistry</i> , 2020, 38, 1647-1650.	2.6	23
58	Theoretical Study of K^{a} Values for Trivalent Rare-Earth Metal Cations in Aqueous Solution. <i>Journal of Physical Chemistry A</i> , 2018, 122, 700-707.	1.1	22
59	Tertiary Amine-Initiated Synthesis of Acyl Fluorides from Carboxylic Acids and $\text{CF}_3\text{SO}_2\text{OCF}_3$. <i>Chemistry - A European Journal</i> , 2020, 26, 16261-16265.	1.7	22
60	O-Difluoromethylation of 1,3-diones with S-difluoromethyl sulfonium salt. <i>RSC Advances</i> , 2016, 6, 35705-35708.	1.7	21
61	Recent Advances in Difluoromethylthiolation. <i>Synthesis</i> , 2020, 52, 197-207.	1.2	21
62	Rh-catalyzed allylic C-F bond activation: the stereoselective synthesis of trisubstituted monofluoroalkenes and a mechanism study. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 581-588.	1.5	20
63	Microwave-assisted synthesis of dialkylphosphinic acids and a structure-reactivity study in rare earth metal extraction. <i>RSC Advances</i> , 2015, 5, 104258-104262.	1.7	20
64	Trifluoromethylfluorosulfonylation of Unactivated Alkenes Using Readily Available $\text{Ag}(\text{O}_2\text{CCF}_2\text{SO}_2\text{F})$ and <i>N</i> -Fluorobenzenesulfonimide. <i>Angewandte Chemie</i> , 2017, 129, 15634-15637.	1.6	19
65	An Unconventional Mechanistic Insight into SCF_3 Formation from Difluorocarbene: Preparation of ^{18}F -Labeled SCF_3 Carbonyl Compounds. <i>Angewandte Chemie</i> , 2017, 129, 3244-3248.	1.6	18
66	Stereoselective Synthesis of α -Trifluoromethyl Enones by $\text{Au}^{\text{I}}/\text{Cu}^{\text{I}}$ -Catalyzed Tandem 1,3-Acyloxy Migration/Trifluoromethylation Reaction of Propargyl Acetates. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 7948-7954.	1.2	17
67	One-pot synthesis of gem-difluorostyrenes from benzyl bromide via olefination of phosphonium ylide with difluorocarbene. <i>Journal of Fluorine Chemistry</i> , 2015, 179, 116-120.	0.9	17
68	A convenient reagent for the conversion of aldoximes into nitriles and isonitriles. <i>Chemical Communications</i> , 2020, 56, 6221-6224.	2.2	17
69	Synthesis and reactions of the first fluoroalkylated Ni(II) N-confused porphyrins. <i>Chemical Communications</i> , 2008, , 5435.	2.2	16
70	α , β -Substituent effect of dialkylphosphinic acids on lanthanide extraction. <i>RSC Advances</i> , 2016, 6, 56004-56008.	1.7	16
71	Fe-Catalyzed insertion of fluoromethylcarbenes generated from sulfonium salts into X-H bonds (X =) <small>Tj ETQq1 1.0,784314,rgBT /O</small>	2.3	16
72	Visible light mediated C-H trifluoromethylation of (hetero)arenes. <i>Organic Chemistry Frontiers</i> , 2022, 9, 1982-1985.	2.3	16

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73	Reaction of Thiocarbonyl Fluoride Generated from Difluorocarbene with Amines. <i>Angewandte Chemie</i> , 2017, 129, 16896-16900.	1.6	14
74	Recent Advances in the Synthesis of CF ₃ - or HCF ₂ -Substituted Cyclopropanes. <i>Asian Journal of Organic Chemistry</i> , 2021, 10, 485-495.	1.3	14
75	Nucleophilic 1,1-Difluoroethylation with Fluorinated Phosphonium Salt. <i>Journal of Organic Chemistry</i> , 2016, 81, 12084-12090.	1.7	13
76	Base-free O-difluoromethylation of 1,3-diones with difluorocarbene. <i>Journal of Fluorine Chemistry</i> , 2016, 192, 27-30.	0.9	13
77	One-step synthesis of high-purity Li ₂ BeF ₄ molten salt. <i>Journal of Fluorine Chemistry</i> , 2016, 181, 30-35.	0.9	13
78	Tri- and di-fluoroethylation of alkenes by visible light photoredox catalysis. <i>Organic Chemistry Frontiers</i> , 2018, 5, 1452-1456.	2.3	12
79	Difluorocarbene-based cyanodifluoromethylation of alkenes induced by a dual-functional Cu-catalyst. <i>Chemical Communications</i> , 2021, 57, 2649-2652.	2.2	12
80	Diastereoselective Synthesis of CF ₃ -Containing Vicinal Diamines. <i>Journal of Organic Chemistry</i> , 2017, 82, 8273-8281.	1.7	11
81	Ph ₃ P/I ⁺ -Promoted Dichlorination or Dibromination of Epoxides with XCH ₂ CH ₂ X (X = Cl or Br). <i>Synlett</i> , 2019, 30, 181-184.	1.0	11
82	Hydroperfluoroalkylation of electron-deficient olefins with perfluoroalkyl iodides promoted by zinc/viologen. <i>RSC Advances</i> , 2016, 6, 60080-60083.	1.7	9
83	Photocatalyzed Cyanodifluoromethylation of Alkenes. <i>Angewandte Chemie</i> , 2019, 131, 6140-6144.	1.6	9
84	Ph ₃ P+CF ₂ CO ₂ ⁻ as an F ⁻ and :CF ₂ source for trifluoromethylthiolation of alkyl halides. <i>Chinese Chemical Letters</i> , 2019, 30, 714-716.	4.8	9
85	Synthesis and ¹⁸ F Labeling of Alkenyl Sulfonyl Fluorides via an Unconventional Elimination Pathway. <i>Organic Letters</i> , 2022, 24, 4992-4997.	2.4	8
86	¹² C-Perfluoroalkylated meso-Aryl-Substituted Subporphyrins: Synthesis and Properties. <i>Synthesis</i> , 2014, 46, 1674-1688.	1.2	7
87	Difluoromethylation of N-arylsulfonyl hydrazones with difluorocarbene leading to difluoromethyl aryl sulfones. <i>RSC Advances</i> , 2016, 6, 82298-82300.	1.7	7
88	Nucleophilic monofluoroalkylation with fluorinated phosphonium salt toward carbonyl and imine compounds. <i>Journal of Fluorine Chemistry</i> , 2017, 193, 17-23.	0.9	7
89	Synthesis and Physicochemical Properties of Bis(fluoroalkanesulfon)amide-Based Ionic Liquids. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 3419-3422.	1.0	6
90	p <i>K</i> _a prediction for acidic phosphorus-containing compounds using multiple linear regression with computational descriptors. <i>Journal of Computational Chemistry</i> , 2016, 37, 1668-1671.	1.5	6

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91	Difluorocarbene-based trifluoromethylthiolation of terminal alkynes. Journal of Fluorine Chemistry, 2020, 230, 109437.	0.9	6
92	Rh-catalyzed tunable defluorinative borylation. Chemical Communications, 2021, 57, 7124-7127.	2.2	6
93	Porphyrynes: 18- π -Conjugated Macrocycles Incorporating a Triple Bond. Organic Letters, 2022, 24, 1716-1721.	2.4	6
94	Identification of a 3,3-difluorinated tetrahydropyridinol compound as a novel antitumor agent for hepatocellular carcinoma acting via cell cycle arrest through disturbing CDK7-mediated phosphorylation of Cdc2. Investigational New Drugs, 2020, 38, 287-298.	1.2	5
95	Difluorocarbene-Based Cyanation of Aryl Iodides. Synlett, 2020, 31, 713-717.	1.0	5
96	Unusual Fluoroalkenylation of Porphyrins: A Highly Stereoselective Synthesis of 10,20-Diaryl-5-[(E)-fluoroalkenyl]-15-(fluoroalkyl)porphyrins. European Journal of Organic Chemistry, 2006, 2006, 3405-3411.	1.2	4
97	The Chemistry of Tetrafluoroallene: One-pot Synthesis of Trifluoromethylindolizines from 1,3-diiodo-1,3,3-tetrafluoropropane by 1,3-dipolar Cycloaddition. Chinese Journal of Chemistry, 2003, 21, 898-903.	2.6	4
98	Reaction of imidazole anions with difluorodiodomethane and their products conversion in sulfinate dehalogenation system. Chinese Journal of Chemistry, 2003, 21, 1349-1355.	2.6	3
99	Prediction of Solubility Properties from Transfer Energies for Acidic Phosphorus-Containing Rare-Earth Extractants Using Implicit Solvation Model. Solvent Extraction and Ion Exchange, 2016, 34, 347-354.	0.8	3
100	HCF ₂ Se/HCF ₂ S Installation by Tandem Substitutions from Alkyl Bromides. Journal of Organic Chemistry, 2021, 86, 13153-13159.	1.7	3
101	anti-Markovnikov Iodofluorination of Alkenes. Chemistry - an Asian Journal, 2022, 17, .	1.7	3
102	Extraction Behavior of Acidic Phosphorus-Containing Compounds to Some Metal Ions: A Combination Research of Experimental and Theoretical Investigations. Journal of Physical Chemistry A, 2020, 124, 5033-5041.	1.1	2
103	Ph ₂ S/selectfluor-promoted deoxydifluorination of aldehydes. Tetrahedron, 2021, 83, 131963.	1.0	2
104	Triphenylphosphine/1,2-Diiodoethane-Promoted Formylation of Indoles with N,N-Dimethylformamide. Synlett, 2022, 33, 259-263.	1.0	2
105	Evaluating and understanding the affinity of metal ions to water and ammonia using density functional theory calculation. Chemical Physics Letters, 2021, 768, 138398.	1.2	1
106	Recent Advances in ¹⁸ F-Labeling of Trifluoromethylthiolation. , 2020, , 649-665.		1
107	Heptafluoroisopropylthiolation of benzyl halides. Journal of Fluorine Chemistry, 2022, 255-256, 109966.	0.9	1
108	Facile preparation of highly pure KF-ZrF ₄ molten salt. Heat and Mass Transfer, 2018, 54, 2899-2905.	1.2	0

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109	A one-step synthesis of gem-difluoroolefins from alcohols. Journal of Fluorine Chemistry, 2020, 240, 109649.	0.9	0