

Ji-Chang Xiao

List of Publications by Year in descending order

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109
papers

4,745
citations

94433

37
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106344

65
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113
all docs

113
docs citations

113
times ranked

3135
citing authors

#	ARTICLE	IF	CITATIONS
1	Triphenylphosphine/1,2-Diiodoethane-Promoted Formylation of Indoles with N,N-Dimethylformamide. <i>Synlett</i> , 2022, 33, 259-263.	1.8	2
2	Visible light mediated C-H trifluoromethylation of (hetero)arenes. <i>Organic Chemistry Frontiers</i> , 2022, 9, 1982-1985.	4.5	16
3	Porphyrynes: 18- π -Conjugated Macrocycles Incorporating a Triple Bond. <i>Organic Letters</i> , 2022, 24, 1716-1721.	4.6	6
4	Heptafluoroisopropylthiolation of benzyl halides. <i>Journal of Fluorine Chemistry</i> , 2022, 255-256, 109966.	1.7	1
5	anti-Markovnikov Iodofluorination of Alkenes. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	3.3	3
6	Synthesis and ¹⁸ F Labeling of Alkenyl Sulfonyl Fluorides via an Unconventional Elimination Pathway. <i>Organic Letters</i> , 2022, 24, 4992-4997.	4.6	8
7	Rh-catalyzed tunable defluorinative borylation. <i>Chemical Communications</i> , 2021, 57, 7124-7127.	4.1	6
8	Difluorocarbene-based cyanodifluoromethylation of alkenes induced by a dual-functional Cu-catalyst. <i>Chemical Communications</i> , 2021, 57, 2649-2652.	4.1	12
9	Transition-metal difluorocarbene complexes. <i>Chemical Communications</i> , 2021, 57, 9316-9329.	4.1	39
10	Recent Advances in the Synthesis of CF ₃ - or HCF ₂ -Substituted Cyclopropanes. <i>Asian Journal of Organic Chemistry</i> , 2021, 10, 485-495.	2.7	14
11	Ph ₂ S/selectfluor-promoted deoxydifluorination of aldehydes. <i>Tetrahedron</i> , 2021, 83, 131963.	1.9	2
12	Evaluating and understanding the affinity of metal ions to water and ammonia using density functional theory calculation. <i>Chemical Physics Letters</i> , 2021, 768, 138398.	2.6	1
13	A Readily Available Trifluoromethylation Reagent and Its Difunctionalization of Alkenes. <i>Organic Letters</i> , 2021, 23, 6079-6083.	4.6	37
14	Contemporary synthetic strategies in organofluorine chemistry. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	21.2	134
15	HCF ₂ Se/HCF ₂ S Installation by Tandem Substitutions from Alkyl Bromides. <i>Journal of Organic Chemistry</i> , 2021, 86, 13153-13159.	3.2	3
16	Starting from Styrene: A Unified Protocol for Hydrotrifluoromethylation of Diversified Alkenes. <i>Organic Letters</i> , 2021, 23, 9277-9282.	4.6	32
17	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. <i>Investigational New Drugs</i> , 2020, 38, 287-298.	2.6	5
18	Recent Advances in Difluoromethylthiolation. <i>Synthesis</i> , 2020, 52, 197-207.	2.3	21

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19	Difluorocarbene-based trifluoromethylthiolation of terminal alkynes. <i>Journal of Fluorine Chemistry</i> , 2020, 230, 109437.	1.7	6
20	Dehydroxylative Trifluoromethylthiolation, Trifluoromethylation, and Difluoromethylation of Alcohols. <i>Chinese Journal of Chemistry</i> , 2020, 38, 169-172.	4.9	30
21	A one-step synthesis of gem-difluoroolefins from alcohols. <i>Journal of Fluorine Chemistry</i> , 2020, 240, 109649.	1.7	0
22	Dehydroxylative Fluorination of Tertiary Alcohols. <i>Organic Letters</i> , 2020, 22, 6642-6646.	4.6	26
23	Fluorinated Ylides/Carbenes and Related Intermediates from Phosphonium/Sulfonium Salts. <i>Accounts of Chemical Research</i> , 2020, 53, 1498-1510.	15.6	75
24	Pd^{II} -Catalyzed Transfer of Difluorocarbene for Three Component Cross-Coupling. <i>Chinese Journal of Chemistry</i> , 2020, 38, 1647-1650.	4.9	23
25	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.	3.3	22
26	Extraction Behavior of Acidic Phosphorus-Containing Compounds to Some Metal Ions: A Combination Research of Experimental and Theoretical Investigations. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5033-5041.	2.5	2
27	Difluorocarbene-Based Cyanation of Aryl Iodides. <i>Synlett</i> , 2020, 31, 713-717.	1.8	5
28	Arenesulfonyl Fluoride Synthesis via Copper-Catalyzed Fluorosulfonylation of Arenediazonium Salts. <i>Organic Letters</i> , 2020, 22, 2281-2286.	4.6	99
29	A convenient reagent for the conversion of aldoximes into nitriles and isonitriles. <i>Chemical Communications</i> , 2020, 56, 6221-6224.	4.1	17
30	Recent Advances in ^{18}F -Labeling of Trifluoromethylthiolation. , 2020, , 649-665.		1
31	Visible-light-induced radical hydrodifluoromethylation of alkenes. <i>Organic Chemistry Frontiers</i> , 2019, 6, 3580-3583.	4.5	27
32	Difluorocarbene-derived trifluoromethylselenolation of benzyl halides. <i>Chemical Communications</i> , 2019, 55, 1410-1413.	4.1	30
33	Photocatalyzed Cyanodifluoromethylation of Alkenes. <i>Angewandte Chemie</i> , 2019, 131, 6140-6144.	2.0	9
34	Photocatalyzed Cyanodifluoromethylation of Alkenes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6079-6083.	13.8	66
35	Oxidation of difluorocarbene and subsequent trifluoromethoxylation. <i>Nature Communications</i> , 2019, 10, 5362.	12.8	40
36	$\text{Ph}_3\text{P}^+\text{CF}_2\text{CO}_2^-$ as an F^{\ominus} and $:\text{CF}_2$ source for trifluoromethylthiolation of alkyl halides. <i>Chinese Chemical Letters</i> , 2019, 30, 714-716.	9.0	9

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37	Ph ₃ P/Ir ^{III} -Promoted Dichlorination or Dibromination of Epoxides with XCH ₂ CH ₂ X (X = Cl or Br). <i>Synlett</i> , 2019, 30, 181-184.	1.8	11
38	Tri- and di-fluoroethylation of alkenes by visible light photoredox catalysis. <i>Organic Chemistry Frontiers</i> , 2018, 5, 1452-1456.	4.5	12
39	Theoretical Study of ρ_K Values for Trivalent Rare-Earth Metal Cations in Aqueous Solution. <i>Journal of Physical Chemistry A</i> , 2018, 122, 700-707.	2.5	22
40	Ag-Mediated Trifluoromethylthiolation of Inert Csp ³ -H Bond. <i>Journal of Organic Chemistry</i> , 2018, 83, 14120-14125.	3.2	26
41	Dehydroxylation of alcohols for nucleophilic substitution. <i>Chemical Communications</i> , 2018, 54, 7034-7037.	4.1	28
42	Rapid Dehydroxytrifluoromethoxylation of Alcohols. <i>IScience</i> , 2018, 5, 110-117.	4.1	32
43	Facile preparation of highly pure KF-ZrF ₄ molten salt. <i>Heat and Mass Transfer</i> , 2018, 54, 2899-2905.	2.1	0
44	Halogenation through Deoxygenation of Alcohols and Aldehydes. <i>Organic Letters</i> , 2018, 20, 3061-3064.	4.6	73
45	An Unconventional Mechanistic Insight into SCF ₃ Formation from Difluorocarbene: Preparation of ¹⁸ F-Labeled α -SCF ₃ Carbonyl Compounds. <i>Angewandte Chemie</i> , 2017, 129, 3244-3248.	2.0	18
46	An Unconventional Mechanistic Insight into SCF ₃ Formation from Difluorocarbene: Preparation of ¹⁸ F-Labeled α -SCF ₃ Carbonyl Compounds. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3196-3200.	13.8	88
47	Fe-Catalyzed insertion of fluoromethylcarbenes generated from sulfonium salts into X-H bonds (X =) Tj ETQq1 1 0,784314 rgBT /O	4.5	16
48	Difluoromethylcarbene for iron-catalyzed cyclopropanation. <i>Chemical Communications</i> , 2017, 53, 3870-3873.	4.1	34
49	Nucleophilic monofluoroalkylation with fluorinated phosphonium salt toward carbonyl and imine compounds. <i>Journal of Fluorine Chemistry</i> , 2017, 193, 17-23.	1.7	7
50	Trifluoromethylfluorosulfonylation of Unactivated Alkenes Using Readily Available Ag(O ₂ CCF ₂ SO ₂ F) and <i>N</i> -Fluorobenzenesulfonimide. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15432-15435.	13.8	63
51	Trifluoromethylfluorosulfonylation of Unactivated Alkenes Using Readily Available Ag(O ₂ CCF ₂ SO ₂ F) and <i>N</i> -Fluorobenzenesulfonimide. <i>Angewandte Chemie</i> , 2017, 129, 15634-15637.	2.0	19
52	Difluorocarbene for Dehydroxytrifluoromethylthiolation of Alcohols. <i>Journal of Organic Chemistry</i> , 2017, 82, 11206-11211.	3.2	33
53	Reaction of Thiocarbonyl Fluoride Generated from Difluorocarbene with Amines. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16669-16673.	13.8	103
54	Diastereoselective Synthesis of CF ₃ -Containing Vicinal Diamines. <i>Journal of Organic Chemistry</i> , 2017, 82, 8273-8281.	3.2	11

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55	Reaction of Thiocarbonyl Fluoride Generated from Difluorocarbene with Amines. <i>Angewandte Chemie</i> , 2017, 129, 16896-16900.	2.0	14
56	<i>p</i> -K–a prediction for acidic phosphorus–containing compounds using multiple linear regression with computational descriptors. <i>Journal of Computational Chemistry</i> , 2016, 37, 1668-1671.	3.3	6
57	Nucleophilic 1,1-Difluoroethylation with Fluorinated Phosphonium Salt. <i>Journal of Organic Chemistry</i> , 2016, 81, 12084-12090.	3.2	13
58	O-Difluoromethylation of 1,3-diones with S-difluoromethyl sulfonium salt. <i>RSC Advances</i> , 2016, 6, 35705-35708.	3.6	21
59	A Trifluoromethylcarbene Source. <i>Organic Letters</i> , 2016, 18, 2471-2474.	4.6	49
60	Pd-Catalyzed Transfer of Difluorocarbene. <i>Organic Letters</i> , 2016, 18, 4384-4387.	4.6	100
61	Difluoromethylation of N-arylsulfonyl hydrazones with difluorocarbene leading to difluoromethyl aryl sulfones. <i>RSC Advances</i> , 2016, 6, 82298-82300.	3.6	7
62	Base-free O-difluoromethylation of 1,3-diones with difluorocarbene. <i>Journal of Fluorine Chemistry</i> , 2016, 192, 27-30.	1.7	13
63	Direct Nucleophilic Difluoromethylation of Carbonyl Compounds. <i>Organic Letters</i> , 2016, 18, 3206-3209.	4.6	61
64	$\hat{1}$, $\hat{2}$ -Substituent effect of dialkylphosphinic acids on lanthanide extraction. <i>RSC Advances</i> , 2016, 6, 56004-56008.	3.6	16
65	Hydroperfluoroalkylation of electron-deficient olefins with perfluoroalkyl iodides promoted by zinc/viologen. <i>RSC Advances</i> , 2016, 6, 60080-60083.	3.6	9
66	Cu-Catalyzed C–H Trifluoromethylation of 3-Arylprop-1-ynes 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.	4.6	41
67	Nucleophilic arylation with tetraarylphosphonium salts. <i>Nature Communications</i> , 2016, 7, 10337.	12.8	82
68	Prediction of Solubility Properties from Transfer Energies for Acidic Phosphorus-Containing Rare-Earth Extractants Using Implicit Solvation Model. <i>Solvent Extraction and Ion Exchange</i> , 2016, 34, 347-354.	2.0	3
69	One-step synthesis of high-purity Li ₂ BeF ₄ molten salt. <i>Journal of Fluorine Chemistry</i> , 2016, 181, 30-35.	1.7	13
70	Difluorocarbene–Derived Trifluoromethylthiolation and [¹⁸ F]Trifluoromethylthiolation of Aliphatic Electrophiles. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13236-13240.	13.8	110
71	Microwave-assisted synthesis of dialkylphosphinic acids and a structure–reactivity study in rare earth metal extraction. <i>RSC Advances</i> , 2015, 5, 104258-104262.	3.6	20
72	Cross-Coupling between Difluorocarbene and Carbene-Derived Intermediates Generated from Diazocompounds for the Synthesis of <i>gem</i> -Difluoroolefins. <i>Organic Letters</i> , 2015, 17, 6150-6153.	4.6	107

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73	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.	13.8	153
74	Diastereoselective Johnsonâ€“Coreyâ€“Chaykovsky trifluoroethylidenation. <i>Chemical Communications</i> , 2015, 51, 13127-13130.	4.1	52
75	Review of recent advances in CF bond activation of aliphatic fluorides. <i>Journal of Fluorine Chemistry</i> , 2015, 179, 14-22.	1.7	208
76	An overview of reductive trifluoromethylation reactions using electrophilic $\hat{\text{C}}^{\text{+}}\text{CF}_3$ reagents. <i>Tetrahedron</i> , 2015, 71, 7949-7976.	1.9	103
77	Difluoromethylation and gem-difluorocyclopropanation with difluorocarbene generated by decarboxylation. <i>Chemical Communications</i> , 2015, 51, 8805-8808.	4.1	114
78	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.	1.7	17
79	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.	4.6	81
80	Stereoselectivity in <i>N</i> -Iminium Ion Cyclization: Development of an Efficient Synthesis of ($\hat{\pm}$)-Cephalotaxine. <i>Organic Letters</i> , 2015, 17, 4444-4447.	4.6	43
81	Copper-catalyzed tandem trifluoromethylation/cyclization of internal alkynes. <i>Organic Chemistry Frontiers</i> , 2014, 1, 1280-1284.	4.5	38
82	$\hat{\text{I}}^2$ -Perfluoroalkylated meso-Aryl-Substituted Subporphyrins: Synthesis and Properties. <i>Synthesis</i> , 2014, 46, 1674-1688.	2.3	7
83	Stereoselective Synthesis of $\hat{\pm}$ -Trifluoromethyl Enones by Au ^I /Cu ^I -Catalyzed Tandem 1,3-Acyloxy Migration/Trifluoromethylation Reaction of Propargyl Acetates. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 7948-7954.	2.4	17
84	Rh-catalyzed allylic Câ€“F bond activation: the stereoselective synthesis of trisubstituted monofluoroalkenes and a mechanism study. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 581-588.	2.8	20
85	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.	18.8	86
86	A General, Regiospecific Synthetic Route to Perfluoroalkylated Arenes via Arenediazonium Salts with R ₃ Cu(CH ₃) ₃ CN Complexes. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 6303-6309.	2.4	24
87	Decarboxylative Juliaâ€“Kocienski <i>gem</i> -Difluoroâ€“Olefination of 2â€“Pyridinyl Sulfonyldifluoroacetate. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 928-932.	2.4	50
88	Wittig gem-difluoroolefination of aldehydes with difluoromethyltriphenylphosphonium bromide. <i>Journal of Fluorine Chemistry</i> , 2014, 163, 38-41.	1.7	47
89	Synthesis and decarboxylative Wittig reaction of difluoromethylene phosphobetaine. <i>Chemical Communications</i> , 2013, 49, 7513.	4.1	216
90	Conversion between Difluorocarbene and Difluoromethylene Ylide. <i>Chemistry - A European Journal</i> , 2013, 19, 15261-15266.	3.3	151

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91	Copper-catalyzed trifluoromethylation of alkenes with an electrophilic trifluoromethylating reagent. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 2635-2640.	2.2	48
92	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.	4.6	68
93	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.	2.4	35
94	Copper-Mediated Trifluoromethylation of Heteroaromatic Compounds by Trifluoromethyl Sulfonium Salts. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1896-1900.	13.8	298
95	Synthesis and Physicochemical Properties of Bis(fluoroalkanesulfon)amide-Based Ionic Liquids. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 3419-3422.	2.0	6
96	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.	4.3	104
97	Electrophilic Reaction of Ag(III) N-Confused Porphyrin with Alcohols. <i>Journal of Organic Chemistry</i> , 2010, 75, 3511-3514.	3.2	23
98	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.	1.7	23
99	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.	9.0	31
100	Highly Regio- and Stereoselective Diels-Alder Cycloaddition of Difluoro(methylene)cyclopropanes. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 1101-1106.	2.4	28
101	Synthesis and reactions of the first fluoroalkylated Ni(ii) N-confused porphyrins. <i>Chemical Communications</i> , 2008, , 5435.	4.1	16
102	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.	2.4	79
103	Unusual Fluoroalkenylation of Porphyrins: A Highly Stereoselective Synthesis of 10,20-Diaryl-5-[(E)-fluoroalkenyl]-15-(fluoroalkyl)porphyrins. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 3405-3411.	2.4	4
104	Chemistry of Difluorocarbene: Synthesis and Conversion of Difluoro(methylene)cyclopropanes. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 5581-5587.	2.4	28
105	Synthesis of 2,2-Biimidazolium-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.	3.2	164
106	Bipyridinium Ionic Liquid-Promoted Cross-Coupling Reactions between Perfluoroalkyl or Pentafluorophenyl Halides and Aryl Iodides. <i>Organic Letters</i> , 2005, 7, 1963-1965.	4.6	67
107	An Ionic Liquid-Coordinated Palladium Complex: A Highly Efficient and Recyclable Catalyst for the Heck Reaction. <i>Organic Letters</i> , 2004, 6, 3845-3847.	4.6	173
108	The Chemistry of Tetrafluoroallene: One-pot Synthesis of Trifluoromethylindolizines from 1,3-Diiodo-1,1,3,3-tetrafluoropropane by 1,3-Dipolar Cycloaddition. <i>Chinese Journal of Chemistry</i> , 2003, 21, 898-903.	4.9	4

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109	Reaction of imidazole anions with difluorodiodomethane and their products conversion in sulfinate dehalogenation system. Chinese Journal of Chemistry, 2003, 21, 1349-1355.	4.9	3