

Alexander D Dilman

List of Publications by Year in descending order

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117625
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docs citations

140
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon-Carbon Bond Forming Reactions Mediated by Silicon Lewis Acids. <i>Chemical Reviews</i> , 2003, 103, 733-772.	47.7	213
2	Difluorocarbene as a Building Block for Consecutive Bond-Forming Reactions. <i>Accounts of Chemical Research</i> , 2018, 51, 1272-1280.	15.6	187
3	Organofluorine chemistry: promising growth areas and challenges. <i>Russian Chemical Reviews</i> , 2019, 88, 425-569.	6.5	127
4	Nucleophilic Trifluoromethylation of C=N Bonds. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 831-841.	2.4	125
5	Reactions of Difluorocarbene with Organozinc Reagents. <i>Organic Letters</i> , 2013, 15, 917-919.	4.6	112
6	Difluoromethylene Phosphabetaïne as an Equivalent of Difluoromethyl Carbanion. <i>Organic Letters</i> , 2014, 16, 6256-6259.	4.6	93
7	Organic and hybrid systems: from science to practice. <i>Mendeleev Communications</i> , 2017, 27, 425-438.	1.6	86
8	Reactions of gem-Difluorinated Phosphonium Salts Induced by Light. <i>Organic Letters</i> , 2016, 18, 996-999.	4.6	82
9	Difluorohomologation of Ketones. <i>Organic Letters</i> , 2015, 17, 760-763.	4.6	70
10	A novel photoredox-active group for the generation of fluorinated radicals from difluorostyrenes. <i>Chemical Science</i> , 2020, 11, 737-741.	7.4	67
11	Nucleophilic Trifluoromethylation of Imines under Acidic Conditions. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 5226-5230.	2.4	66
12	Difluoro(trimethylsilyl)acetonitrile: Synthesis and Fluoroalkylation Reactions. <i>Journal of Organic Chemistry</i> , 2012, 77, 5850-5855.	3.2	63
13	Nucleophilic Bromo- and Iododifluoromethylation of Aldehydes. <i>Organic Letters</i> , 2014, 16, 3784-3787.	4.6	61
14	Nucleophilic Bromodifluoromethylation of Iminium Ions. <i>Journal of Organic Chemistry</i> , 2014, 79, 7831-7835.	3.2	59
15	Radical Addition to N-Tosylimines via C-H Activation Induced by decatungstate Photocatalyst. <i>Organic Letters</i> , 2019, 21, 4271-4274.	4.6	56
16	Nucleophilic Difluoromethylation Using (Bromodifluoromethyl)trimethylsilane. <i>Organic Letters</i> , 2016, 18, 3458-3461.	4.6	53
17	Copper-Catalyzed Allylation of 1,1-Difluoro-Substituted Organozinc Reagents. <i>Journal of Organic Chemistry</i> , 2014, 79, 818-822.	3.2	52
18	Determination of the Nucleophilicities of N,N-Bis(silyloxy) enamines. <i>Journal of Organic Chemistry</i> , 2001, 66, 3196-3200.	3.2	51

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19	Halogenative Difluorohomologation of Ketones. <i>Journal of Organic Chemistry</i> , 2015, 80, 5870-5876.	3.2	51
20	Using the Thiyl Radical for Aliphatic Hydrogen-Atom Transfer: Thiolation of Unactivated C-H Bonds. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2849-2854.	13.8	50
21	Fluorocyanation of Enamines. <i>Journal of Organic Chemistry</i> , 2010, 75, 5367-5370.	3.2	47
22	Reactions of Sulfur- and Phosphorus-Substituted Fluoroalkylating Silicon Reagents with Imines and Enamines under Acidic Conditions. <i>Journal of Organic Chemistry</i> , 2012, 77, 2080-2086.	3.2	47
23	Geminal Silicon/Zinc Reagent as an Equivalent of Difluoromethylene Bis-carbanion. <i>Organic Letters</i> , 2014, 16, 1438-1441.	4.6	47
24	Difluoromethylation of Carboxylic Acids via the Addition of Difluorinated Phosphorus Ylide to Acyl Chlorides. <i>Organic Letters</i> , 2017, 19, 5304-5307.	4.6	46
25	New Approach for the Synthesis of Isoxazoline-N-oxides. <i>Organic Letters</i> , 2003, 5, 4907-4909.	4.6	45
26	Trifluoromethylation of N-Benzoylhydrazones. <i>Journal of Organic Chemistry</i> , 2008, 73, 5643-5646.	3.2	40
27	Nucleophilic trifluoromethylation with organoboron reagents. <i>Tetrahedron Letters</i> , 2011, 52, 281-284.	1.4	40
28	Radical Silyldifluoromethylation of Electron-Deficient Alkenes. <i>Organic Letters</i> , 2017, 19, 3215-3218.	4.6	39
29	Nucleophilic trifluoromethylation of arylidene Meldrum's acids. <i>Tetrahedron Letters</i> , 2009, 50, 2998-3000.	1.4	38
30	Photocatalytic Reductive Fluoroalkylation of Nitrones. <i>Organic Letters</i> , 2018, 20, 840-843.	4.6	38
31	Nucleophilic fluoroalkylation of iminium salts. <i>Tetrahedron Letters</i> , 2008, 49, 3108-3111.	1.4	36
32	Nucleophilic trifluoromethylation of arylidenemalononitriles. <i>Tetrahedron Letters</i> , 2008, 49, 4352-4354.	1.4	36
33	Synthesis of 3-Fluoroindoles via Photoredox Catalysis. <i>Journal of Organic Chemistry</i> , 2017, 82, 745-753.	3.2	36
34	Trapping of Difluorocarbene by Frustrated Lewis Pairs. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12428-12431.	13.8	36
35	Synthesis of organofluorine compounds using 1-fluorine-substituted silicon reagents. <i>Mendeleev Communications</i> , 2015, 25, 239-244.	1.6	35
36	Reactions of organozinc reagents with potassium bromodifluoroacetate. <i>Journal of Fluorine Chemistry</i> , 2015, 171, 97-101.	1.7	35

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37	Recent Advances in the Synthesis and Chemistry of Nitronates. <i>Synthesis</i> , 2017, 49, 3255-3268.	2.3	34
38	Synthesis of 3-Fluoropyridines via Photoredox-Mediated Coupling of α,α -Difluoro- α -iodoketones with Silyl Enol Ethers. <i>Journal of Organic Chemistry</i> , 2017, 82, 12967-12974.	3.2	32
39	Advances in the chemistry of organozinc reagents. <i>Tetrahedron Letters</i> , 2016, 57, 3986-3992.	1.4	31
40	Fluoroalkyl sulfides as photoredox-active coupling reagents for alkene difunctionalization. <i>Chemical Communications</i> , 2020, 56, 9453-9456.	4.1	31
41	Trifluoromethylation of Salicyl Aldimines. <i>Journal of Organic Chemistry</i> , 2007, 72, 8604-8607.	3.2	30
42	Trifluoromethylation of enamines under acidic conditions. <i>Tetrahedron Letters</i> , 2009, 50, 2994-2997.	1.4	30
43	Interaction of α,α -Difluorinated Iodides with Silyl Enol Ethers Mediated by Photoredox Catalysis. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 3063-3067.	4.3	30
44	Reactions of CF_3 -substituted boranes with α -diazocarbonyl compounds. <i>Tetrahedron Letters</i> , 2011, 52, 5259-5263.	1.4	29
45	Synthesis of α,α -Difluorinated Nitroso Compounds. <i>Journal of Organic Chemistry</i> , 2014, 79, 11819-11823.	3.2	29
46	Synthesis of Pentafluorophenylmethylamines via Silicon Mannich Reaction. <i>Organic Letters</i> , 2005, 7, 2913-2915.	4.6	28
47	Nucleophilic difluoromethylation of CN bonds in heterocycles with difluoromethyl silane reagents. <i>Tetrahedron</i> , 2012, 68, 5137-5144.	1.9	27
48	Activation of Pentafluorophenylsilanes by Weak Lewis Bases in Reaction with Iminium Cations. <i>Journal of Organic Chemistry</i> , 2006, 71, 7214-7223.	3.2	26
49	Light-Mediated Dual Phosphine-/Copper-Catalyzed Atom Transfer Radical Addition Reaction. <i>Journal of Organic Chemistry</i> , 2019, 84, 11068-11079.	3.2	26
50	Visible-Light-Mediated Organocatalyzed Thiol-ene Reaction Initiated by a Proton-Coupled Electron Transfer. <i>Journal of Organic Chemistry</i> , 2019, 84, 8337-8343.	3.2	26
51	Visible-Light-Promoted Iododifluoromethylation of Alkenes via (Phosphonio)difluoromethyl Radical Cation. <i>Organic Letters</i> , 2020, 22, 2409-2413.	4.6	25
52	Reaction of Baylis-Hillman Adducts with Fluorinated Silanes. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 6779-6785.	2.4	24
53	Nucleophilic Iododifluoromethylation of Aldehydes Using Bromine/Iodine Exchange. <i>Journal of Organic Chemistry</i> , 2015, 80, 9349-9353.	3.2	24
54	Photoredox generation of the trifluoromethyl radical from borate complexes <i>via</i> single electron reduction. <i>Chemical Communications</i> , 2018, 54, 2236-2239.	4.1	24

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55	Nucleophilic fluoroalkylation of (bromomethyl)pinacolborane using silicon reagents. Journal of Fluorine Chemistry, 2013, 154, 43-46.	1.7	23
56	Light-mediated copper-catalyzed phosphorus/halogen exchange in 1,1-difluoroalkylphosphonium salts. Chemical Communications, 2019, 55, 1314-1317.	4.1	23
57	Generation of Alkyl Radicals from Thiols via Zinc Thiolates: Application for the Synthesis of <i>gem</i> -Difluorostyrenes. Advanced Synthesis and Catalysis, 2021, 363, 2888-2892.	4.3	22
58	Reaction of the Ruppert-Prakash reagent with perfluorosulfonic acids. Journal of Fluorine Chemistry, 2009, 130, 667-670.	1.7	21
59	Photocatalyzed Decarboxylative Thiolation of Carboxylic Acids Enabled by Fluorinated Disulfide. Organic Letters, 2022, 24, 2354-2358.	4.6	21
60	Silicon Reagent with Functionalized Tetrafluoroethylene Fragments: Preparation and Coupling with Aldehydes. Journal of Organic Chemistry, 2016, 81, 9455-9460.	3.2	20
61	Chemistry of <i>N,N</i> -Bis(silyloxy) enamines. 3. <i>N,N</i> -Bis(silyloxy) enamines as $\hat{\text{I}}^2$ -C-Nucleophiles in Reaction with Acetals Mediated by Trimethylsilyl Trifluoromethanesulfonate. Journal of Organic Chemistry, 2000, 65, 8826-8829.	3.2	19
62	Nucleophilic Reactivities of Silyl Ketene Acetals and Silyl Enol Ethers Containing (C ₆ F ₅) ₃ SiO and (C ₆ H ₅) ₃ SiO Groups. European Journal of Organic Chemistry, 2005, 2005, 1760-1764.	2.4	19
63	Complexation of tris(pentafluorophenyl)silanes with neutral Lewis bases. Journal of Organometallic Chemistry, 2008, 693, 1005-1019.	1.8	19
64	Reactions of fluorinated silanes with 2-nitrocinnamates. Journal of Fluorine Chemistry, 2011, 132, 378-381.	1.7	19
65	<i>ortho</i> -Dialkylamino arylboranes as efficient reagents for difluorocarbene trapping. Chemical Communications, 2020, 56, 7140-7142.	4.1	19
66	Photoredox Fluoroalkylation of Hydrazones in Neutral and Reductive Modes. Advanced Synthesis and Catalysis, 2021, 363, 1152-1158.	4.3	19
67	Synthesis of Difluoroalkylated Heteroarenes via Difluorocarbene. Organic Letters, 2021, 23, 6977-6981.	4.6	19
68	Copper-Catalyzed Coupling of Acyl Chlorides with <i>gem</i> -Difluorinated Organozinc Reagents via Acyl Dithiocarbamates. Journal of Organic Chemistry, 2018, 83, 478-483.	3.2	18
69	Boron Chelates Derived from <i>N</i> -Acylhydrazones as Radical Acceptors: Photocatalyzed Coupling of Hydrazones with Carboxylic Acids. Organic Letters, 2021, 23, 8973-8977.	4.6	18
70	Synthesis of <i>N,N</i> -bis(silyloxy) enamines with a functionalized double bond. Journal of the Chemical Society, Perkin Transactions 1, 2000, , 2926-2929.	1.3	17
71	Coupling of $\hat{\text{I}}^1, \hat{\text{I}}^2$ -difluoro-substituted organozinc reagents with 1-bromoalkynes. Beilstein Journal of Organic Chemistry, 2015, 11, 2145-2149.	2.2	17
72	Dithiocarbamate-substituted <i>gem</i> -difluorinated silicon reagent: generation and addition to aldehydes. Tetrahedron Letters, 2015, 56, 5048-5050.	1.4	17

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73	Light-Mediated Sulfur-Boron Exchange. <i>Organic Letters</i> , 2021, 23, 3919-3922.	4.6	17
74	Reaction of gem-difluorinated organozinc reagents with β^2 -nitrostyrenes. <i>Journal of Fluorine Chemistry</i> , 2015, 176, 89-92.	1.7	16
75	Coupling of gem-difluorinated organozinc reagents with S-electrophiles. <i>Journal of Fluorine Chemistry</i> , 2016, 191, 143-148.	1.7	16
76	Pentafluorophenyltrifluorosilane in the silicon Mannich reaction. <i>Tetrahedron Letters</i> , 2006, 47, 6217-6219.	1.4	15
77	Atom-transfer radical addition of fluoroalkyl bromides to alkenes via a photoredox/copper catalytic system. <i>Chemical Communications</i> , 2021, 57, 5219-5222.	4.1	15
78	All-carbon phosphoranes via difluorocarbene trapping. <i>Chemical Communications</i> , 2021, 57, 4823-4826.	4.1	15
79	Photoredox Activation of Organozinc Reagents: Barbier-Type Reaction of Alkyl Halides with β^2 -(Trifluoromethyl)styrenes. <i>Organic Letters</i> , 2021, 23, 9645-9648.	4.6	15
80	Chloride ion promoted nucleophilic pentafluorophenylation of imines. <i>Tetrahedron Letters</i> , 2006, 47, 8959-8963.	1.4	14
81	Synthesis of C ₆ F ₅ -Substituted Amines Containing Quaternary Carbon Atoms. <i>Synthesis</i> , 2006, 2006, 447-450.	2.3	14
82	3-Halomethylated cyclic nitronates: synthesis and nucleophilic substitution. <i>Tetrahedron</i> , 2011, 67, 4584-4594.	1.9	14
83	Dimerization of Benzyl and Allyl Halides via Photoredox-Mediated Disproportionation of Organozinc Reagents. <i>Synthesis</i> , 2018, 50, 2930-2935.	2.3	14
84	Visible light-mediated difluoroalkylation of electron-deficient alkenes. <i>Beilstein Journal of Organic Chemistry</i> , 2018, 14, 1637-1641.	2.2	14
85	Tris(pentafluorophenyl)silyl enol ethers: synthesis and aldol reactions. <i>Tetrahedron Letters</i> , 2004, 45, 3741-3744.	1.4	13
86	Novel synthesis of β^2 -nitroalkenes from nitroalkanes via halogenation of intermediate N,N-bis(silyloxy)enamines. <i>Tetrahedron Letters</i> , 2005, 46, 5203-5205.	1.4	13
87	Nucleophilic difluoro(trimethylsilyl)methylation of arylidene Meldrum's acids. <i>Journal of Fluorine Chemistry</i> , 2015, 176, 57-60.	1.7	13
88	Reductive Bromodifluoromethylation of Nitrones Promoted by Visible Light. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 4119-4122.	2.4	12
89	Synthesis and structural characterization of carbon-centered tris(pentafluorophenyl)silyl derivatives. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 3680-3689.	1.8	11
90	Photoredox Reaction of 2-Mercaptothiazolinium Salts with Silyl Enol Ethers. <i>Journal of Organic Chemistry</i> , 2019, 84, 15745-15753.	3.2	11

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91	Hydroxyl-directed trifluoromethylation of hydrazones. <i>Mendeleev Communications</i> , 2009, 19, 141-143.	1.6	10
92	Synthesis of difluorosubstituted six-membered nitronates via an addition/substitution cascade. <i>Tetrahedron Letters</i> , 2016, 57, 3639-3642.	1.4	10
93	Visible Light Promoted α -Bromotetrafluoroethylation of Nitrones. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 3788-3792.	4.3	10
94	Interaction of difluoromethylene phosphobetaine with heteroatom-centered electrophiles. <i>Journal of Fluorine Chemistry</i> , 2019, 220, 78-82.	1.7	10
95	Photoredox Fluoroalkylation of Arylidene and Alkylidene Amidrazones. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 393-396.	2.4	10
96	Synthesis and reactions of 3-halomethyl-substituted oxazine N-oxides. <i>Tetrahedron Letters</i> , 2010, 51, 1038-1040.	1.4	9
97	Vinylation of Iododifluoromethylated Alcohols via a Light-Promoted Intramolecular Atom-Transfer Reaction. <i>Synthesis</i> , 2017, 49, 4124-4132.	2.3	9
98	Pentafluorophenylation of β -aminoacrylates. <i>Mendeleev Communications</i> , 2007, 17, 105-107.	1.6	8
99	Nucleophilic Pentafluorophenylation of Nitroalkenes. <i>Synthesis</i> , 2012, 44, 2436-2440.	2.3	8
100	Synthesis of fluorinated pyrimidinones. <i>Journal of Fluorine Chemistry</i> , 2013, 154, 73-79.	1.7	8
101	Synthesis of <i>gem</i> -Difluorinated Hydroxypyrrolidines. <i>Journal of Organic Chemistry</i> , 2017, 82, 3270-3275.	3.2	8
102	Visible-Light-Promoted Reversible Sulfide/Iodide Exchange in Fluoroalkyl Sulfides Enabled by Electron Donor-Acceptor Complex Formation. <i>ChemPhotoChem</i> , 2021, 5, 565-570.	3.0	8
103	Photocatalytic Atom-Transfer Radical Addition of Activated Chlorides to Alkenes. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 5336-5340.	4.3	8
104	Three-component reactions of CF ₃ -substituted boranes, ethyl diazoacetate and imines. <i>Tetrahedron Letters</i> , 2012, 53, 6216-6218.	1.4	7
105	Synthesis of S-difluoromethyl dithiocarbamates. <i>Mendeleev Communications</i> , 2015, 25, 452-453.	1.6	7
106	Coupling of N -acyliminium chlorides with <i>gem</i> -difluorinated organozinc reagents. <i>Mendeleev Communications</i> , 2017, 27, 139-140.	1.6	7
107	Light-Promoted Allylation of Iododifluoromethylated Alcohols. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 3834-3836.	2.4	7
108	Photoredox mediated annelation of iododifluoromethylated alcohols with 1,1-diarylethylenes. <i>Tetrahedron</i> , 2018, 74, 7136-7142.	1.9	7

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109	Using the Thiyl Radical for Aliphatic Hydrogen-Atom Transfer: Thiolation of Unactivated C-H Bonds. <i>Angewandte Chemie</i> , 2021, 133, 2885-2890.	2.0	7
110	Alkene homologation <i>via</i> visible light promoted hydrophosphination using triphenylphosphonium triflate. <i>Chemical Communications</i> , 2021, 57, 749-752.	4.1	7
111	Synthesis of Trifluoromethylated Dithiocarbamates via Photocatalyzed Substitution Reaction: Pentafluoropyridine as Activating Reagent. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 1007-1010.	2.4	7
112	Addition of thiols to gem-difluoroalkenes under photoactivation conditions. <i>Fluorine Notes</i> , 2017, 115, 1-1.	0.1	7
113	Photocatalytic Alkylation of β -(Trifluoromethyl)Styrenes with Potassium Xanthogenates. <i>Catalysts</i> , 2021, 11, 1555.	3.5	7
114	Trapping of Difluorocarbene by Frustrated Lewis Pairs. <i>Angewandte Chemie</i> , 2020, 132, 12528-12531.	2.0	6
115	Reductive silylation of gem-difluorinated phosphonium salts. <i>Journal of Fluorine Chemistry</i> , 2018, 205, 58-61.	1.7	5
116	Synthesis of tetrafluorinated tetrahydroquinolines via photoredox catalysis. <i>Mendeleev Communications</i> , 2019, 29, 515-516.	1.6	4
117	One-pot synthesis of β -trifluoromethylstyrenes from aryl ketones and the Ruppert-Prakash reagent. <i>Mendeleev Communications</i> , 2021, 31, 684-685.	1.6	4
118	Organophotoredox-Catalyzed Reductive Tetrafluoroalkylation of Alkenes. <i>Journal of Organic Chemistry</i> , 2023, 88, 6523-6531.	3.2	4
119	Photoredox-catalyzed silyldifluoromethylation of silyl enol ethers. <i>Beilstein Journal of Organic Chemistry</i> , 2020, 16, 1550-1553.	2.2	3
120	Chelation-assisted pentafluorophenylation of oximes. <i>Mendeleev Communications</i> , 2010, 20, 220-222.	1.6	2
121	Photoredox Catalyzed Dealkylative Aromatic Halogen Substitution with Tertiary Amines. <i>Molecules</i> , 2021, 26, 3323.	3.8	2
122	Reaction of (bromodifluoromethyl)trimethylsilane with HMPA: Structural studies. <i>Journal of Fluorine Chemistry</i> , 2021, 250, 109881.	1.7	1
123	Allylic substitution reactions with fluorinated nucleophiles. <i>Coordination Chemistry Reviews</i> , 2022, 459, 214455.	18.8	1
124	Synthesis of Pentafluorophenylmethylamines via Silicon Mannich Reaction.. <i>ChemInform</i> , 2005, 36, no.	0.0	0
125	Electrophilic Activation of β -bromo- γ -difluoropropanes by Triflic Acid in Reactions with Arenes. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 5905-5911.	2.4	0
126	Synthesis of tetrafluorinated piperidines from nitrones via a visible-light-promoted annelation reaction. <i>Beilstein Journal of Organic Chemistry</i> , 2020, 16, 3104-3108.	2.2	0