

William R Dolbier

List of Publications by Year in descending order

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75
papers

4,280
citations

159585

30
h-index

106344

65
g-index

81
all docs

81
docs citations

81
times ranked

3174
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure, Reactivity, and Chemistry of Fluoroalkyl Radicals. <i>Chemical Reviews</i> , 1996, 96, 1557-1584.	47.7	377
2	Efficient Cu-catalyzed Atom Transfer Radical Addition Reactions of Fluoroalkylsulfonyl Chlorides with Electron-deficient Alkenes Induced by Visible Light. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4246-4249.	13.8	364
3	Fluorine chemistry at the millennium. <i>Journal of Fluorine Chemistry</i> , 2005, 126, 157-163.	1.7	344
4	Structure, Synthesis, and Chemical Reactions of Fluorinated Cyclopropanes and Cyclopropenes. <i>Chemical Reviews</i> , 2003, 103, 1071-1098.	47.7	287
5	Electronic Control of Stereoselectivities of Electrocyclic Reactions of Cyclobutenes: A Triumph of Theory in the Prediction of Organic Reactions. <i>Accounts of Chemical Research</i> , 1996, 29, 471-477.	15.6	284
6	Photoredox-Catalyzed Tandem Radical Cyclization of <i>N</i> -Arylacrylamides: General Methods To Construct Fluorinated 3,3-Disubstituted 2-Oxindoles Using Fluoroalkylsulfonyl Chlorides. <i>Organic Letters</i> , 2014, 16, 4594-4597.	4.6	272
7	Photoredox-Catalyzed Tandem Insertion/Cyclization Reactions of Difluoromethyl and 1,1-Difluoroalkyl Radicals with Biphenyl Isocyanides. <i>Organic Letters</i> , 2015, 17, 4401-4403.	4.6	142
8	Photoredox-Catalyzed Intramolecular Difluoromethylation of <i>N</i> -Benzylacrylamides Coupled with a Dearomatizing Spirocyclization: Access to CF ₂ H-Containing 2-Azaspiro[4.5]deca-6,9-diene-3,8-diones. <i>Organic Letters</i> , 2016, 18, 1048-1051.	4.6	132
9	Photoredox-Catalyzed Intramolecular Aminodifluoromethylation of Unactivated Alkenes. <i>Organic Letters</i> , 2015, 17, 3528-3531.	4.6	126
10	Direct Photoredox-Catalyzed Reductive Difluoromethylation of Electron-deficient Alkenes. <i>Chemistry - A European Journal</i> , 2015, 21, 18961-18965.	3.3	125
11	Tetrakis(dimethylamino)ethylene as a Useful Reductant of Some Bromodifluoromethyl Heterocycles. Application to the Synthesis of Newgem-Difluorinated Heteroarylated Compounds. <i>Journal of Organic Chemistry</i> , 1998, 63, 5385-5394.	3.2	99
12	Parylene-AF4: a polymer with exceptional dielectric and thermal properties. <i>Journal of Fluorine Chemistry</i> , 2003, 122, 97-104.	1.7	89
13	A convenient and efficient method for incorporation of pentafluorosulfanyl (SF ₅) substituents into aliphatic compounds. <i>Journal of Fluorine Chemistry</i> , 2006, 127, 1302-1310.	1.7	89
14	Trimethylsilyl fluorosulfonyldifluoroacetate (TFDA): a new, highly efficient difluorocarbene reagent. <i>Journal of Fluorine Chemistry</i> , 2004, 125, 459-469.	1.7	77
15	The syntheses of nonnucleoside, HIV-1 reverse transcriptase inhibitors containing a CF ₂ group. <i>Journal of Fluorine Chemistry</i> , 2000, 102, 369-376.	1.7	67
16	Synthesis and Characterization of 2-Pyridylsulfur Pentafluorides. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 280-284.	13.8	67
17	Synthesis and reactivity of halogeno-difluoromethyl aromatics and heterocycles. <i>Journal of Fluorine Chemistry</i> , 2001, 109, 39-48.	1.7	60
18	Preparation of Pentafluorosulfanyl (SF ₅) Pyrrole Carboxylic Acid Esters. <i>Journal of Organic Chemistry</i> , 2009, 74, 5626-5628.	3.2	58

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19	Energetic materials containing fluorine. Design, synthesis and testing of furazan-containing energetic materials bearing a pentafluorosulfanyl group. <i>Journal of Fluorine Chemistry</i> , 2012, 143, 112-122.	1.7	55
20	Photoredox Catalyzed Intramolecular Fluoroalkylarylation of Unactivated Alkenes. <i>Journal of Organic Chemistry</i> , 2017, 82, 2589-2598.	3.2	53
21	Nucleophilic trifluoromethylation of acyl chlorides using the trifluoromethyl iodide/TDAE reagent. <i>Tetrahedron Letters</i> , 2002, 43, 4317-4319.	1.4	52
22	Kinetic and Computational Studies of a Novel Pseudopericyclic Electrocyclization. The First Evidence for Torquoselectivity in a 6- π System. <i>Journal of the American Chemical Society</i> , 1997, 119, 12366-12367.	13.7	49
23	A Novel, Non-High-Dilution Method for Preparation of 1,1,2,2,9,9,10,10-Octafluoro[2.2]paracyclophane. <i>Organic Letters</i> , 2000, 2, 1867-1869.	4.6	42
24	1,1-Bis(dimethylamino)-2,2,2-trifluoroethane, a Readily-Available Precursor to the Novel Fluorinated Building Block 1,1-Bis(dimethylamino)-2,2-difluoroethene. <i>Journal of Organic Chemistry</i> , 1997, 62, 1576-1577.	3.2	38
25	Synthesis of Novel Pentafluorosulfanylfurans. Two Retro-Diels-Alder Approaches. <i>Organic Letters</i> , 2006, 8, 5573-5575.	4.6	37
26	Synthesis of L-4,4-Difluoroglutamic Acid via Nucleophilic Addition to a Chiral Aldehyde. <i>Journal of Organic Chemistry</i> , 2001, 66, 6381-6388.	3.2	36
27	Synthesis of Trifluoromethylated Amines Using 1,1-Bis(dimethylamino)-2,2,2-trifluoroethane. <i>Journal of Organic Chemistry</i> , 2000, 65, 2134-2137.	3.2	34
28	Multiple Electrophilic Substitution of 1,1,2,2,9,9,10,10-Octafluoro[2.2]paracyclophane. <i>Journal of Organic Chemistry</i> , 2000, 65, 5282-5290.	3.2	33
29	Electrophilic Substitution of 1,1,2,2,9,9,10,10-Octafluoro[2.2]paracyclophane. <i>Journal of Organic Chemistry</i> , 1999, 64, 9137-9143.	3.2	32
30	Use of 1-pentafluorosulfanyl-phenylacetylenes for the preparation of SF ₅ -substituted five-membered ring heterocycles through 1,3-dipolar cycloadditions. Isoxazoles and isoxazolines. <i>Journal of Fluorine Chemistry</i> , 2015, 176, 121-126.	1.7	30
31	Density Functional Theory Calculations of the Effect of Fluorine Substitution on the Kinetics of Cyclopropylcarbinyl Radical Ring Openings. <i>Journal of Organic Chemistry</i> , 1999, 64, 540-546.	3.2	29
32	Synthesis of Perfluoro[2.2]paracyclophane. <i>Journal of Organic Chemistry</i> , 2008, 73, 2469-2472.	3.2	29
33	SF ₅ -Substituted Aromatic Heterocycles. <i>Advances in Heterocyclic Chemistry</i> , 2016, , 1-42.	1.7	26
34	¹⁹ F NMR properties of some trifluorovinyl- and pentafluoropropenyl-substituted aromatics. <i>Magnetic Resonance in Chemistry</i> , 1993, 31, 748-751.	1.9	25
35	Cyclizations of 5-Hexenyl, 6-Heptenyl, 7-Octenyl, and 8-Nonenyl Radicals. The Kinetic and Regiochemical Impact of Fluorine and Oxygen Substituents. <i>Journal of Organic Chemistry</i> , 1999, 64, 5993-5999.	3.2	24
36	New industrial fluoropolymer science and technology. <i>Macromolecular Symposia</i> , 1995, 98, 753-767.	0.7	23

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37	Highly Reactive and Regenerable Fluorinating Agent for Oxidative Fluorination of Aromatics. <i>Organic Process Research and Development</i> , 2008, 12, 349-354.	2.7	22
38	Rate Constant for the Ring Opening of the 2,2-Difluorocyclopropylcarbinyl Radical. <i>Organic Letters</i> , 2000, 2, 835-837.	4.6	21
39	Density Functional Theory Calculations of the Effect of Fluorine Substitution on the Cyclobutylcarbinyl to 4-Pentenyl Radical Rearrangement. <i>Journal of Organic Chemistry</i> , 2001, 66, 2662-2666.	3.2	21
40	A new synthesis of 2-fluoro-1-naphthols. <i>Journal of Fluorine Chemistry</i> , 2005, 126, 477-480.	1.7	21
41	The radiation response of cells from 9L gliosarcoma tumours is correlated with [F18]-EF5 uptake. <i>International Journal of Radiation Biology</i> , 2009, 85, 1137-1147.	1.8	21
42	Diverse Cycloaddition Chemistry Leading to Overall Michael Addition in the Reactions of 1,1-Bis(dimethylamino)-2,2-difluoroethene with α,β -Unsaturated Aldehydes, Ketones, Esters, and Nitriles. <i>Journal of Organic Chemistry</i> , 1997, 62, 6503-6506.	3.2	20
43	Friedel-Crafts Reactions of 2,2-Difluorocyclopropanecarbonyl Chloride: Unexpected Ring-Opening Chemistry. <i>Journal of Organic Chemistry</i> , 2011, 76, 3450-3456.	3.2	20
44	Carbomethoxydifluoromethylation of enol acetates with methyl (chlorosulfonyl)difluoroacetate using visible-light photoredox catalysis. Synthesis of 2,2-difluoro- β -ketoesters. <i>Journal of Fluorine Chemistry</i> , 2015, 178, 327-331.	1.7	20
45	Reactivity and Regiochemical Behavior of the 2,2-Difluorocyclopropylcarbinyl Cation: A New and Improved Mechanistic Probe To Distinguish Radical and Carbocation Intermediates. <i>Organic Letters</i> , 1999, 1, 193-196.	4.6	19
46	Reactivity and regiochemical behavior in the solvolysis reactions of (2,2-difluorocyclopropyl)methyl tosylates. <i>Journal of Fluorine Chemistry</i> , 2003, 119, 39-51.	1.7	16
47	Magnesium iodide promoted defluorinative reactions of 2,2-difluorocyclopropyl aryl ketones with aryl imines: A new, general synthesis of 2-alkylideneazetidines. <i>Journal of Fluorine Chemistry</i> , 2010, 131, 958-963.	1.7	16
48	Generation of <i>ortho</i> -SF ₅ -Benzyne and Its Diels-Alder Reactions with Furans: Synthesis of 1-SF ₅ -Naphthalene, Its Derivatives, and 1,6(1,7)-Bis-SF ₅ -naphthalenes. <i>Journal of Organic Chemistry</i> , 2016, 81, 11305-11311.	3.2	16
49	Synthesis and Novel Reactivity of Halomethyldimethylsulfonium Salts. <i>Journal of Organic Chemistry</i> , 2000, 65, 3460-3465.	3.2	15
50	Rate constants for hydrogen abstraction from alkoxides by a perfluoroalkyl radical. An oxyanion accelerated process Electronic supplementary information (ESI) available: Tables of kinetic data and plots of kinetic data. See http://www.rsc.org/suppdata/ob/b4/b405074f . <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 2083.	2.8	15
51	¹⁹ F chemical shifts, coupling constants and conformational preferences in monosubstituted perfluoroparacyclophanes. <i>Magnetic Resonance in Chemistry</i> , 2011, 49, 93-105.	1.9	15
52	Absolute rate constants for some hydrogen atom abstraction reactions by a primary fluoroalkyl radical in water Electronic supplementary information (ESI) available: Tables of kinetic data and plots of kinetic data. See http://www.rsc.org/suppdata/ob/b3/b313757k/ . <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 689.	2.8	14
53	Ni/Ir-Catalyzed Photoredox Decarboxylative Coupling of α -Substituted Thiolactic Acids with Heteroaryl Bromides: Short Synthesis of Sulfoxafior and Its SF ₅ Analog. <i>Chemistry - A European Journal</i> , 2017, 23, 7677-7681.	3.3	14
54	Remarkable Cyclization Reactivities of Partially-Fluorinated 6-Heptenyl Radicals. <i>Journal of Organic Chemistry</i> , 1998, 63, 5687-5688.	3.2	13

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55	Synthesis of 6-SF ₅ -indazoles and an SF ₅ -analog of gamendazole. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 5793-5799.	2.8	13
56	A Highly Pyramidalized Cage Alkene Formed via the Double Diels-Alder Cycloaddition of syn-4,5,13,14-Bis(dehydro)octafluoroparacyclophane to Anthracene. <i>Journal of Organic Chemistry</i> , 2005, 70, 10336-10341.	3.2	12
57	Difluoromethylarylation of 1,2-unsaturated amides via a photocatalytic radical smiles rearrangement. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 2064-2068.	2.8	12
58	1,3-Dipolar Cycloadditions of 1,1-Difluoroallene, Nitrones, Nitrile Oxides and Carbonyl Ylides. <i>Israel Journal of Chemistry</i> , 1985, 26, 115-119.	2.3	11
59	New synthesis of 3-fluoropyridine derivatives. <i>Journal of Fluorine Chemistry</i> , 2003, 123, 71-73.	1.7	10
60	Remarkable Efficiency of the Aryne Chemistry of (Dehydro)octafluoro[2.2]paracyclophane When Using the Cadogan Method. <i>Journal of Organic Chemistry</i> , 2007, 72, 550-558.	3.2	9
61	Synthesis of 3-phenylsulfonyl-2-trifluoromethyl-1H-indoles: A copper catalyzed cyclization approach. <i>Journal of Fluorine Chemistry</i> , 2017, 193, 118-125.	1.7	9
62	The thermal unimolecular isomerization of 1,1-divinylcyclopropane. <i>International Journal of Chemical Kinetics</i> , 1974, 6, 893-897.	1.6	8
63	The SRN1 chemistry of 4-iodo-1,1,2,2,9,9,10,10-octafluoro[2.2]paracyclophane. <i>Mendeleev Communications</i> , 2006, 16, 146-147.	1.6	8
64	Photocatalytic difluoromethylarylation of unactivated alkenes via a (hetero)aryl neophyl-like radical migration. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 5712-5715.	2.8	8
65	Large primary kinetic isotope effects in the abstraction of hydrogen from organic compounds by a fluorinated radical in water. Electronic supplementary information (ESI) available: Tables of kinetic data and plots of kinetic data. See http://www.rsc.org/suppdata/ob/b4/b405075d/ . <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 2087.	2.8	7
66	4,5-Dehydrooctafluoro[2.2]paracyclophane: facile generation and extraordinary Diels-Alder reactivity. <i>Tetrahedron Letters</i> , 2002, 43, 7047-7049.	1.4	6
67	Direct Aldol-Reduction Process using Difluoromethyl Aryl Ketones and Aryl Aldehydes in the Presence of Potassium tert-Butoxide: One-Pot Efficient Stereoselective Synthesis of Symmetrical and Unsymmetrical anti-2,2-Difluoropropane-1,3-diols. <i>Advanced Synthesis and Catalysis</i> , 2010, 352, 2787-2790.	4.3	6
68	Sequential ene, Diels-Alder reactions of AF ₄ -yne with 1,3,5-cycloheptatriene. <i>Journal of Fluorine Chemistry</i> , 2008, 129, 28-34.	1.7	5
69	Computational Discovery of a Novel Automerization Process for 1-Fluorocyclopropene. <i>Organic Letters</i> , 2002, 4, 233-235.	4.6	4
70	The Unexpected Formation of 9,9,10,10-Tetrafluoro-1,2,4,12-tetraphenyl[2.2]paracyclophan-1-ene. <i>Journal of Organic Chemistry</i> , 2015, 80, 5355-5358.	3.2	3
71	Atropisomerism of a monosubstituted perfluoro[2.2]paracyclophane. A combined synthetic, kinetic, spectroscopic and computational study. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 882-889.	2.8	2
72	Through-space ¹⁹ F- ¹⁵ N couplings for the assignment of stereochemistry in flubenzimine. <i>Magnetic Resonance in Chemistry</i> , 2016, 54, 592-596.	1.9	2

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73	Biographical sketch of Paul Tarrant. <i>Journal of Fluorine Chemistry</i> , 1999, 100, 201-206.	1.7	0
74	Fluorination Methods: <i>Synthetic Fluorine Chemistry</i> . George A. Olah, Richard D. Chambers, and G. K. Surya Prakash, Eds. Wiley, New York, 1992. xiv, 402 pp., illus. \$95 or £80. From a symposium, Feb. 1990.. <i>Science</i> , 1993, 261, 1188-1189.	12.6	0
75	Fluorination Methods: <i>Synthetic Fluorine Chemistry</i> . George A. Olah, Richard D. Chambers, and G. K. Surya Prakash, Eds. Wiley, New York, 1992. xiv, 402 pp., illus. \$95 or £80. From a symposium, Feb. 1990.. <i>Science</i> , 1993, 261, 1188-1189.	12.6	0