Robert Britton

List of Publications by Year
in descending order

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73	2,458	230014	252626
papers	citations	27	46
		h-index	g-index

89	89	89	2202
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Decatungstate Catalyzed Synthesis of Trifluoromethylthioesters from Aldehydes via a Radical Process. Journal of Organic Chemistry, 2022, 87, 765-775.	1.7	21
2	Quantifying lysosomal glycosidase activity within cells using bis-acetal substrates. Nature Chemical Biology, 2022, 18, 332-341.	3.9	11
3	Practical and concise synthesis of nucleoside analogs. Nature Protocols, 2022, 17, 2008-2024.	5.5	5
4	Enterobactin on a Bead: Parallel, Solid Phase Siderophore Synthesis Reveals Structureâ€“Activity Relationships for Iron Uptake in Bacteria. ACS Infectious Diseases, 2021, 7, 153-161.	1.8	5
5	Total synthesis of biselide A. Chemical Science, 2021, 12, 5534-5543.	3.7	7
6	Rational Design and Synthesis of Selective PRMT4 Inhibitors: A New Chemotype for Development of Cancer Therapeutics**. ChemMedChem, 2021, 16, 1116-1125.	1.6	4
7	Diversity-oriented synthesis of glycomimetics. Communications Chemistry, 2021, 4, .	2.0	17
8	Intrinsic Nucleophilicity of Inverting and Retaining Glycoside Hydrolases Revealed Using Carbasugar Glyco-Tools. ACS Catalysis, 2021, 11, 9377-9389.	5.5	5
9	Contemporary synthetic strategies in organofluorine chemistry. Nature Reviews Methods Primers, 2021, 1, .	11.8	134
10	All sugars ain't sweet: selection of particular mono-, di- and trisaccharides by western carpenter ants and European fire ants. Royal Society Open Science, 2021, 8, 210804.	1.1	8
11	Selective Trifluoromethylthiolation of Unactivated C(sp 3)â^'H Bonds Enabled by Excited Ketones. Asian Journal of Organic Chemistry, 2021, 10, 2566.	1.3	5
12	Rational design of cell active C2-modified DGJ analogues for the inhibition of human Î±-galactosidase A (GALA). Organic and Biomolecular Chemistry, 2021, 19, 8057-8062.	1.5	1
13	A short de novo synthesis of nucleoside analogs. Science, 2020, 369, 725-730.	6.0	61
14	Fluorodesulfurization of Thionobenzodioxoles with Silver(I) Fluoride. Journal of Organic Chemistry, 2020, 85, 13298-13305.	1.7	2
15	Glycoside hydrolase stabilization of transition state charge: new directions for inhibitor design. Chemical Science, 2020, 11, 10488-10495.	3.7	12
16	Synergism of anisotropic and computational NMR methods reveals the likely configuration of phormidolide A. Chemical Communications, 2020, 56, 7565-7568.	2.2	20
17	Quaternary Ammonium Trifluoromethoxide Salts as Stable Sources of Nucleophilic OCF₃. Organic Letters, 2020, 22, 1785-1790.	2.4	22
18	Electrostatic Effects Accelerate Decatungstate-Catalyzed Câ€“H Fluorination Using [¹⁸F]- and [¹⁹F]NFSI in Small Molecules and Peptide Mimics. ACS Catalysis, 2019, 9, 8276-8284.	5.5	29

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19	A counterintuitive stereochemical outcome from a chelation-controlled vinylmetal aldehyde addition leads to the configurational reassignment of phormidolide A. Chemical Communications, 2019, 55, 9717-9720.	2.2	17
20	A Convenient Synthesis of Difluoroalkyl Ethers from Thionoesters Using Silver(I) Fluoride. Chemistry - A European Journal, 2019, 25, 15993-15997.	1.7	15
21	¹⁸F-Branched-Chain Amino Acids: Structureâ€“Activity Relationships and PET Imaging Potential. Journal of Nuclear Medicine, 2019, 60, 1003-1009.	2.8	12
22	Isolation, Structure Elucidation, and Total Synthesis of Dolichovespulide, a Sesquiterpene from Dolichovespula Yellowjackets. Journal of Natural Products, 2019, 82, 2009-2012.	1.5	4
23	Synthesis of Heterobenzylic Fluorides. Synthesis, 2018, 50, 1228-1236.	1.2	8
24	Common bed bugs can biosynthesize pheromone components from amino acid precursors in human blood. Canadian Journal of Chemistry, 2018, 96, 212-216.	0.6	6
25	Application of sequential proline-catalyzed Î±-chlorination and aldol reactions in the total synthesis of 1-deoxygalactonojirimycin. Canadian Journal of Chemistry, 2018, 96, 144-147.	0.6	6
26	Titelbild: Maculatic Acids-Sex Attractant Pheromone Components of Bald-Faced Hornets (Angew.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.6	0
27	Siteâ€Selective, Lateâ€Stage Câ^'H ¹⁸Fâ€Fluorination on Unprotected Peptides for Positron Emission Tomography Imaging. Angewandte Chemie, 2018, 130, 12915-12918.	1.6	21
28	Base-Catalyzed Transesterification of Thionoesters. Journal of Organic Chemistry, 2018, 83, 12784-12792.	1.7	15
29	Maculatic Acidsâ€"Sex Attractant Pheromone Components of Baldâ€Faced Hornets. Angewandte Chemie, 2018, 130, 11792-11796.	1.6	0
30	Siteâ€Selective, Lateâ€Stage Câ^'H ¹⁸Fâ€Fluorination on Unprotected Peptides for Positron Emission Tomography Imaging. Angewandte Chemie - International Edition, 2018, 57, 12733-12736.	7.2	71
31	Synthesis of acyl fluorides via photocatalytic fluorination of aldehydic Câ€“H bonds. Chemical Communications, 2018, 54, 9985-9988.	2.2	68
32	Revealing the mechanism for covalent inhibition of glycoside hydrolases by carbasugars at an atomic level. Nature Communications, 2018, 9, 3243.	5.8	28
33	Direct heterobenzylic fluorination, difluorination and trifluoromethylthiolation with dibenzenesulfonamide derivatives. Chemical Science, 2018, 9, 5608-5613.	3.7	42
34	Maculatic Acidsâ€"Sex Attractant Pheromone Components of Baldâ€Faced Hornets. Angewandte Chemie - International Edition, 2018, 57, 11618-11622.	7.2	6
35	¹⁸F-Fluorination of Unactivated Câ€“H Bonds in Branched Aliphatic Amino Acids: Direct Synthesis of Oncological Positron Emission Tomography Imaging Agents. Journal of the American Chemical Society, 2017, 139, 3595-3598.	6.6	119
36	Structural and functional insight into human O-GlcNAcase. Nature Chemical Biology, 2017, 13, 610-612.	3.9	88

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37	Î±â€Arylation and Ring Expansion of Annulated Cyclobutanones: Stereoselective Synthesis of Functionalized Tetralones. Angewandte Chemie, 2017, 129, 766-770.	1.6	12
38	Î±â€Arylation and Ring Expansion of Annulated Cyclobutanones: Stereoselective Synthesis of Functionalized Tetralones. Angewandte Chemie - International Edition, 2017, 56, 748-752.	7.2	23
39	Total Synthesis, Stereochemical Assignment, and Fieldâ€Testing of the Sex Pheromone of the Strepsipteran Xenos peckii. Chemistry - A European Journal, 2016, 22, 6190-6193.	1.7	11
40	A Convenient Lateâ€Stage Fluorination of Pyridylic Câ^'H Bonds with Nâ€Fluorobenzenesulfonimide. Angewandte Chemie - International Edition, 2016, 55, 13244-13248.	7.2	56
41	A Convenient Lateâ€Stage Fluorination of Pyridylic Câ^'H Bonds with Nâ€Fluorobenzenesulfonimide. Angewandte Chemie, 2016, 128, 13438-13442.	1.6	18
42	Structural Snapshots for Mechanismâ€Based Inactivation of a Glycoside Hydrolase by Cyclopropyl Carbasugars. Angewandte Chemie, 2016, 128, 15202-15206.	1.6	7
43	Structural Snapshots for Mechanismâ€Based Inactivation of a Glycoside Hydrolase by Cyclopropyl Carbasugars. Angewandte Chemie - International Edition, 2016, 55, 14978-14982.	7.2	30
44	Synthesis of annulated pyridines as inhibitors of aldosterone synthase (CYP11B2). Organic and Biomolecular Chemistry, 2016, 14, 5922-5927.	1.5	28
45	Total Synthesis and Configurational Assignment of Ascospiroketalâ€...A. Chemistry - A European Journal, 2015, 21, 16646-16653.	1.7	18
46	A Convenient Approach to Stereoisomeric Iminocyclitols: Generation of Potent Brainâ€Permeable OGA Inhibitors. Angewandte Chemie - International Edition, 2015, 54, 15429-15433.	7.2	41
47	Direct synthesis of imino-C-nucleoside analogues and other biologically active iminosugars. Nature Communications, 2015, 6, 6903.	5.8	59
48	Total Synthesis of Ascospiroketal A Through a Ag^Iâ€Promoted Cyclization Cascade. Angewandte Chemie - International Edition, 2015, 54, 211-214.	7.2	20
49	Direct photocatalytic fluorination of benzylic Câ€"H bonds with N-fluorobenzenesulfonimide. Chemical Communications, 2015, 51, 11783-11786.	2.2	99
50	Total Synthesis of Amphirionin-4. Organic Letters, 2015, 17, 3868-3871.	2.4	21
51	(7E,11E)-3,5,9,11-Tetramethyltridecadienal: Sex Pheromone of the Strepsipteran Xenos peckii. Journal of Chemical Ecology, 2015, 41, 732-739.	0.9	9
52	Development of a Direct Photocatalytic Câ€"H Fluorination for the Preparative Synthesis of Odanacatib. Organic Letters, 2015, 17, 5200-5203.	2.4	147
53	Bed Bug Aggregation Pheromone Finally Identified. Angewandte Chemie - International Edition, 2015, 54, 1135-1138.	7.2	64
54	A Convenient Photocatalytic Fluorination of Unactivated Cï£¿H Bonds. Angewandte Chemie - International Edition, 2014, 53, 4690-4693.	7.2	244

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55	Total Synthesis of the Cytotoxic Anhydrophytosphingosine Pachastrissamine (Jaspine B). Journal of Organic Chemistry, 2013, 78, 8208-8213.	1.7	21
56	Total Synthesis and Structural Revision of Laurefurenynes A and B. Chemistry - A European Journal, 2013, 19, 12649-12652.	1.7	37
57	Chlorine, an atom economical auxiliary for asymmetric aldol reactions. Organic and Biomolecular Chemistry, 2013, 11, 1702.	1.5	24
58	Î±-Haloaldehydes: versatile building blocks for natural product synthesis. Natural Product Reports, 2013, 30, 227-236.	5.2	55
59	A Short, Organocatalytic Formal Synthesis of (â˜)-Swainsonine and Related Alkaloids. Organic Letters, 2013, 15, 1914-1917.	2.4	36
60	A Short, Gramâ€Scale Synthesis of 2,5â€Disubstituted Furans. European Journal of Organic Chemistry, 2013, 2013, 3219-3222.	1.2	4
61	The Kondratâ€™eva Reaction in Flow: Direct Access to Annulated Pyridines. Organic Letters, 2013, 15, 3550-3553.	2.4	39
62	A Tandem Organocatalytic Î±-Chlorinationâ€“Aldol Reaction That Proceeds with Dynamic Kinetic Resolution: A Powerful Tool for Carbohydrate Synthesis. Organic Letters, 2013, 15, 3554-3557.	2.4	63
63	Direct Access to Iminosugars through an Interrupted Kondrat'eva Reaction. Synlett, 2013, 24, 2427-2430.	1.0	3
64	Enantioselective Synthesis of Spiroacetals via Silver(I)-Promoted Alkylation of Hemiacetals: Total Synthesis of Cephalosporolides E and F. Organic Letters, 2012, 14, 5844-5847.	2.4	38
65	Lithium Aldol Reactions of Î±-Chloroaldehydes Provide Versatile Building Blocks for Natural Product Synthesis. Synthesis, 2011, 2011, 1946-1953.	1.2	4
66	Regioselective and Stereoselective Cyclizations of Chloropolyols in Water: Rapid Synthesis of Hydroxytetrahydrofurans. Organic Letters, 2010, 12, 1716-1719.	2.4	44
67	A Concise and Stereoselective Synthesis of Hydroxypyrrolidines: Rapid Synthesis of (+)-Preussin. Organic Letters, 2010, 12, 4034-4037.	2.4	42
68	(S)-2-Pentyl (R)-3-Hydroxyhexanoate, a Banana Volatile and Its Olfactory Recognition by the Common Fruit Fly, Drosophila melanogaster. Journal of Natural Products, 2009, 72, 772-776.	1.5	8
69	Development of a Concise and General Enantioselective Approach to 2,5-Disubstituted-3-hydroxytetrahydrofurans. Organic Letters, 2009, 11, 1717-1720.	2.4	55
70	Inverse Temperature Dependence in the Diastereoselective Addition of Grignard Reagents to a Tetrahydrofurfural. Organic Letters, 2009, 11, 2057-2060.	2.4	14
71	A chromatography-free synthesis of (2S,12Z)-2-acetoxy-12-heptadecene â€" The major sex pheromone component of the pistachio twig borer moth (Kermania pistaciella). Canadian Journal of Chemistry, 2009, 87, 430-432.	0.6	1
72	A General Method for the Synthesis of Nonracemic trans-Epoxides:â€‰ Concise Syntheses of trans-Epoxide-Containing Insect Sex Pheromones. Organic Letters, 2007, 9, 5083-5086.	2.4	51

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73	New Okadaic Acid Analogues from the Marine SpongeMerriamumoxeatoand Their Effect on Mitosis. Journal of Natural Products, 2003, 66, 838-843.	1.5	20