

Robert Britton

List of Publications by Year in descending order

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73
papers

2,458
citations

201658

27
h-index

223791

46
g-index

89
all docs

89
docs citations

89
times ranked

2038
citing authors

#	ARTICLE	IF	CITATIONS
1	A Convenient Photocatalytic Fluorination of Unactivated C-H Bonds. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4690-4693.	13.8	244
2	Development of a Direct Photocatalytic C-H Fluorination for the Preparative Synthesis of Odanacatib. <i>Organic Letters</i> , 2015, 17, 5200-5203.	4.6	147
3	Contemporary synthetic strategies in organofluorine chemistry. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	21.2	134
4	¹⁸ F-Fluorination of Unactivated C-H Bonds in Branched Aliphatic Amino Acids: Direct Synthesis of Oncological Positron Emission Tomography Imaging Agents. <i>Journal of the American Chemical Society</i> , 2017, 139, 3595-3598.	13.7	119
5	Direct photocatalytic fluorination of benzylic C-H bonds with N-fluorobenzenesulfonimide. <i>Chemical Communications</i> , 2015, 51, 11783-11786.	4.1	99
6	Structural and functional insight into human O-GlcNAcase. <i>Nature Chemical Biology</i> , 2017, 13, 610-612.	8.0	88
7	Site-Selective, Late-Stage C-H ¹⁸ F-Fluorination on Unprotected Peptides for Positron Emission Tomography Imaging. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12733-12736.	13.8	71
8	Synthesis of acyl fluorides <i>via</i> photocatalytic fluorination of aldehydic C-H bonds. <i>Chemical Communications</i> , 2018, 54, 9985-9988.	4.1	68
9	Bed Bug Aggregation Pheromone Finally Identified. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1135-1138.	13.8	64
10	A Tandem Organocatalytic α -Chlorination Aldol Reaction That Proceeds with Dynamic Kinetic Resolution: A Powerful Tool for Carbohydrate Synthesis. <i>Organic Letters</i> , 2013, 15, 3554-3557.	4.6	63
11	A short de novo synthesis of nucleoside analogs. <i>Science</i> , 2020, 369, 725-730.	12.6	61
12	Direct synthesis of imino-C-nucleoside analogues and other biologically active iminosugars. <i>Nature Communications</i> , 2015, 6, 6903.	12.8	59
13	A Convenient Late-Stage Fluorination of Pyridylic C-H Bonds with N-fluorobenzenesulfonimide. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13244-13248.	13.8	56
14	Development of a Concise and General Enantioselective Approach to 2,5-Disubstituted-3-hydroxytetrahydrofurans. <i>Organic Letters</i> , 2009, 11, 1717-1720.	4.6	55
15	α -Haloaldehydes: versatile building blocks for natural product synthesis. <i>Natural Product Reports</i> , 2013, 30, 227-236.	10.3	55
16	A General Method for the Synthesis of Nonracemic trans-Epoxides: Concise Syntheses of trans-Epoxide-Containing Insect Sex Pheromones. <i>Organic Letters</i> , 2007, 9, 5083-5086.	4.6	51
17	Regioselective and Stereoselective Cyclizations of Chloropolyols in Water: Rapid Synthesis of Hydroxytetrahydrofurans. <i>Organic Letters</i> , 2010, 12, 1716-1719.	4.6	44
18	A Concise and Stereoselective Synthesis of Hydroxypyrrolidines: Rapid Synthesis of (+)-Preussin. <i>Organic Letters</i> , 2010, 12, 4034-4037.	4.6	42

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19	Direct heterobenzylic fluorination, difluorination and trifluoromethylthiolation with dibenzenesulfonamide derivatives. <i>Chemical Science</i> , 2018, 9, 5608-5613.	7.4	42
20	A Convenient Approach to Stereoisomeric Iminocyclitols: Generation of Potent Brain-Permeable OGA Inhibitors. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15429-15433.	13.8	41
21	The Kondratëva Reaction in Flow: Direct Access to Annulated Pyridines. <i>Organic Letters</i> , 2013, 15, 3550-3553.	4.6	39
22	Enantioselective Synthesis of Spiroacetals via Silver(I)-Promoted Alkylation of Hemiacetals: Total Synthesis of Cephalosporolides E and F. <i>Organic Letters</i> , 2012, 14, 5844-5847.	4.6	38
23	Total Synthesis and Structural Revision of Laurefurenynes A and B. <i>Chemistry - A European Journal</i> , 2013, 19, 12649-12652.	3.3	37
24	A Short, Organocatalytic Formal Synthesis of (±)-Swainsonine and Related Alkaloids. <i>Organic Letters</i> , 2013, 15, 1914-1917.	4.6	36
25	Structural Snapshots for Mechanism-Based Inactivation of a Glycoside Hydrolase by Cyclopropyl Carbasugars. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14978-14982.	13.8	30
26	Electrostatic Effects Accelerate Decatungstate-Catalyzed C-H Fluorination Using [¹⁸ F]- and [¹⁹ F]NFSI in Small Molecules and Peptide Mimics. <i>ACS Catalysis</i> , 2019, 9, 8276-8284.	11.2	29
27	Synthesis of annulated pyridines as inhibitors of aldosterone synthase (CYP11B2). <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 5922-5927.	2.8	28
28	Revealing the mechanism for covalent inhibition of glycoside hydrolases by carbasugars at an atomic level. <i>Nature Communications</i> , 2018, 9, 3243.	12.8	28
29	Chlorine, an atom economical auxiliary for asymmetric aldol reactions. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 1702.	2.8	24
30	Asymmetric Arylation and Ring Expansion of Annulated Cyclobutanones: Stereoselective Synthesis of Functionalized Tetralones. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 748-752.	13.8	23
31	Quaternary Ammonium Trifluoromethoxide Salts as Stable Sources of Nucleophilic OCF ₃ . <i>Organic Letters</i> , 2020, 22, 1785-1790.	4.6	22
32	Total Synthesis of the Cytotoxic Anhydrophytosphingosine Pachastrissamine (Jaspine B). <i>Journal of Organic Chemistry</i> , 2013, 78, 8208-8213.	3.2	21
33	Total Synthesis of Amphirionin-4. <i>Organic Letters</i> , 2015, 17, 3868-3871.	4.6	21
34	Site-Selective, Late-Stage C-H ¹⁸ F-Fluorination on Unprotected Peptides for Positron Emission Tomography Imaging. <i>Angewandte Chemie</i> , 2018, 130, 12915-12918.	2.0	21
35	Decatungstate Catalyzed Synthesis of Trifluoromethylthioesters from Aldehydes via a Radical Process. <i>Journal of Organic Chemistry</i> , 2022, 87, 765-775.	3.2	21
36	New Okadaic Acid Analogues from the Marine Sponge <i>Merriamumoxeato</i> and Their Effect on Mitosis. <i>Journal of Natural Products</i> , 2003, 66, 838-843.	3.0	20

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37	Total Synthesis of Ascospiroketal A Through a Ag ^I -Promoted Cyclization Cascade. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 211-214.	13.8	20
38	Synergism of anisotropic and computational NMR methods reveals the likely configuration of phormidolide A. <i>Chemical Communications</i> , 2020, 56, 7565-7568.	4.1	20
39	Total Synthesis and Configurational Assignment of Ascospiroketal A. <i>Chemistry - A European Journal</i> , 2015, 21, 16646-16653.	3.3	18
40	A Convenient Late-Stage Fluorination of Pyridylic C-H Bonds with N-Fluorobenzenesulfonimide. <i>Angewandte Chemie</i> , 2016, 128, 13438-13442.	2.0	18
41	A counterintuitive stereochemical outcome from a chelation-controlled vinylmetal aldehyde addition leads to the configurational reassignment of phormidolide A. <i>Chemical Communications</i> , 2019, 55, 9717-9720.	4.1	17
42	Diversity-oriented synthesis of glycomimetics. <i>Communications Chemistry</i> , 2021, 4, .	4.5	17
43	Base-Catalyzed Transesterification of Thionoesters. <i>Journal of Organic Chemistry</i> , 2018, 83, 12784-12792.	3.2	15
44	A Convenient Synthesis of Difluoroalkyl Ethers from Thionoesters Using Silver(I) Fluoride. <i>Chemistry - A European Journal</i> , 2019, 25, 15993-15997.	3.3	15
45	Inverse Temperature Dependence in the Diastereoselective Addition of Grignard Reagents to a Tetrahydrofurfural. <i>Organic Letters</i> , 2009, 11, 2057-2060.	4.6	14
46	Ar-arylation and Ring Expansion of Annulated Cyclobutanones: Stereoselective Synthesis of Functionalized Tetralones. <i>Angewandte Chemie</i> , 2017, 129, 766-770.	2.0	12
47	¹⁸ F-Branched-Chain Amino Acids: Structure-Activity Relationships and PET Imaging Potential. <i>Journal of Nuclear Medicine</i> , 2019, 60, 1003-1009.	5.0	12
48	Glycoside hydrolase stabilization of transition state charge: new directions for inhibitor design. <i>Chemical Science</i> , 2020, 11, 10488-10495.	7.4	12
49	Total Synthesis, Stereochemical Assignment, and Field-Testing of the Sex Pheromone of the Strepsipteran <i>Xenos peckii</i> . <i>Chemistry - A European Journal</i> , 2016, 22, 6190-6193.	3.3	11
50	Quantifying lysosomal glycosidase activity within cells using bis-acetal substrates. <i>Nature Chemical Biology</i> , 2022, 18, 332-341.	8.0	11
51	(7E,11E)-3,5,9,11-Tetramethyltridecadienal: Sex Pheromone of the Strepsipteran <i>Xenos peckii</i> . <i>Journal of Chemical Ecology</i> , 2015, 41, 732-739.	1.8	9
52	(S)-2-Pentyl (R)-3-Hydroxyhexanoate, a Banana Volatile and Its Olfactory Recognition by the Common Fruit Fly, <i>Drosophila melanogaster</i> . <i>Journal of Natural Products</i> , 2009, 72, 772-776.	3.0	8
53	Synthesis of Heterobenzylic Fluorides. <i>Synthesis</i> , 2018, 50, 1228-1236.	2.3	8
54	All sugars ain't sweet: selection of particular mono-, di- and trisaccharides by western carpenter ants and European fire ants. <i>Royal Society Open Science</i> , 2021, 8, 210804.	2.4	8

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55	Structural Snapshots for Mechanism-Based Inactivation of a Glycoside Hydrolase by Cyclopropyl Carbasugars. <i>Angewandte Chemie</i> , 2016, 128, 15202-15206.	2.0	7
56	Total synthesis of biselide A. <i>Chemical Science</i> , 2021, 12, 5534-5543.	7.4	7
57	Common bed bugs can biosynthesize pheromone components from amino acid precursors in human blood. <i>Canadian Journal of Chemistry</i> , 2018, 96, 212-216.	1.1	6
58	Application of sequential proline-catalyzed α -chlorination and aldol reactions in the total synthesis of 1-deoxygalactonjirimycin. <i>Canadian Journal of Chemistry</i> , 2018, 96, 144-147.	1.1	6
59	Maculatic Acids—Sex Attractant Pheromone Components of Bald-Faced Hornets. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11618-11622.	13.8	6
60	Enterobactin on a Bead: Parallel, Solid Phase Siderophore Synthesis Reveals Structure-Activity Relationships for Iron Uptake in Bacteria. <i>ACS Infectious Diseases</i> , 2021, 7, 153-161.	3.8	5
61	Intrinsic Nucleophilicity of Inverting and Retaining Glycoside Hydrolases Revealed Using Carbasugar Glyco-Tools. <i>ACS Catalysis</i> , 2021, 11, 9377-9389.	11.2	5
62	Selective Trifluoromethylthiolation of Unactivated C(sp ³)-H Bonds Enabled by Excited Ketones. <i>Asian Journal of Organic Chemistry</i> , 2021, 10, 2566.	2.7	5
63	Practical and concise synthesis of nucleoside analogs. <i>Nature Protocols</i> , 2022, 17, 2008-2024.	12.0	5
64	Lithium Aldol Reactions of α -Chloroaldehydes Provide Versatile Building Blocks for Natural Product Synthesis. <i>Synthesis</i> , 2011, 2011, 1946-1953.	2.3	4
65	A Short, Gram-Scale Synthesis of 2,5-Disubstituted Furans. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 3219-3222.	2.4	4
66	Isolation, Structure Elucidation, and Total Synthesis of Dolichovespulide, a Sesquiterpene from <i>Dolichovespula</i> Yellowjackets. <i>Journal of Natural Products</i> , 2019, 82, 2009-2012.	3.0	4
67	Rational Design and Synthesis of Selective PRMT4 Inhibitors: A New Chemotype for Development of Cancer Therapeutics*. <i>ChemMedChem</i> , 2021, 16, 1116-1125.	3.2	4
68	Direct Access to Iminosugars through an Interrupted Kondrat'eva Reaction. <i>Synlett</i> , 2013, 24, 2427-2430.	1.8	3
69	Fluorodesulfurization of Thionobenzodioxoles with Silver(I) Fluoride. <i>Journal of Organic Chemistry</i> , 2020, 85, 13298-13305.	3.2	2
70	A chromatography-free synthesis of (2 <i>S</i> ,12 <i>Z</i>)-2-acetoxy-12-heptadecene—the major sex pheromone component of the pistachio twig borer moth (<i>Kermania pistaciella</i>). <i>Canadian Journal of Chemistry</i> , 2009, 87, 430-432.	1.1	1
71	Rational design of cell active C2-modified DCJ analogues for the inhibition of human α -galactosidase A (GALA). <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 8057-8062.	2.8	1
72	Titelbild: Maculatic Acids-Sex Attractant Pheromone Components of Bald-Faced Hornets (Angew.) Tj ETQq0 0 0 rgBJ /Overlock 10 Tf 50	2.0	0

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73	Maculatic Acids's Sex Attractant Pheromone Components of Bald-faced Hornets. <i>Angewandte Chemie</i> , 2018, 130, 11792-11796.	2.0	0