

Benjamin M Swarts

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

1,237
citations

361413

20
h-index

395702

33
g-index

37
all docs

37
docs citations

37
times ranked

1130
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing the Mycobacterial Trehalome with Bioorthogonal Chemistry. <i>Journal of the American Chemical Society</i> , 2012, 134, 16123-16126.	13.7	151
2	Illumination of growth, division and secretion by metabolic labeling of the bacterial cell surface. <i>FEMS Microbiology Reviews</i> , 2015, 39, 184-202.	8.6	123
3	Peptidoglycan precursor synthesis along the sidewall of pole-growing mycobacteria. <i>ELife</i> , 2018, 7, .	6.0	94
4	Bioorthogonal Chemical Reporters for Selective In-situ Probing of Mycomembrane Components in Mycobacteria. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2053-2057.	13.8	87
5	Glycosylation of KEAP1 links nutrient sensing to redox stress signaling. <i>EMBO Journal</i> , 2017, 36, 2233-2250.	7.8	82
6	Transient drug-tolerance and permanent drug-resistance rely on the trehalose-catalytic shift in <i>Mycobacterium tuberculosis</i> . <i>Nature Communications</i> , 2019, 10, 2928.	12.8	74
7	Deoxyfluoro-d-trehalose (FDTre) analogues as potential PET probes for imaging mycobacterial infection. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 8598-8609.	2.8	56
8	Tailoring trehalose for biomedical and biotechnological applications. <i>Pure and Applied Chemistry</i> , 2017, 89, 1223-1249.	1.9	48
9	Chemoenzymatic Synthesis of Trehalose Analogues: Rapid Access to Chemical Probes for Investigating Mycobacteria. <i>ChemBioChem</i> , 2014, 15, 2066-2070.	2.6	47
10	Photoactivatable Glycolipid Probes for Identifying Mycolate-Protein Interactions in Live Mycobacteria. <i>Journal of the American Chemical Society</i> , 2020, 142, 7725-7731.	13.7	45
11	Chemical Reporters for Bacterial Glycans: Development and Applications. <i>Chemical Reviews</i> , 2022, 122, 3336-3413.	47.7	45
12	The trehalose-specific transporter LpqY-SugABC is required for antimicrobial and anti-biofilm activity of trehalose analogues in <i>Mycobacterium smegmatis</i> . <i>Carbohydrate Research</i> , 2017, 450, 60-66.	2.3	39
13	Engineering the Mycomembrane of Live Mycobacteria with an Expanded Set of Trehalose Monomycolate Analogues. <i>ChemBioChem</i> , 2019, 20, 1282-1291.	2.6	32
14	Chemoenzymatic radiosynthesis of 2-deoxy-2-[18F]fluoro-d-trehalose ([18F]-2-FDTre): A PET radioprobe for in vivo tracing of trehalose metabolism. <i>Carbohydrate Research</i> , 2019, 472, 16-22.	2.3	29
15	A FRET-Based Fluorogenic Trehalose Dimycolate Analogue for Probing Mycomembrane-Remodeling Enzymes of Mycobacteria. <i>ACS Omega</i> , 2019, 4, 4348-4359.	3.5	28
16	A chemical reporter strategy for detecting and identifying O-mycoloylated proteins in <i>Corynebacterium</i> . <i>Chemical Communications</i> , 2016, 52, 13795-13798.	4.1	27
17	Hepatic arginase 2 (Arg2) is sufficient to convey the therapeutic metabolic effects of fasting. <i>Nature Communications</i> , 2019, 10, 1587.	12.8	25
18	Lactotrehalose, an Analog of Trehalose, Increases Energy Metabolism Without Promoting <i>Clostridioides difficile</i> Infection in Mice. <i>Gastroenterology</i> , 2020, 158, 1402-1416.e2.	1.3	23

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19	Degradation-resistant trehalose analogues block utilization of trehalose by hypervirulent <i>Clostridioides difficile</i> . <i>Chemical Communications</i> , 2019, 55, 5009-5012.	4.1	22
20	Hepatocyte ALOXE3 is induced during adaptive fasting and enhances insulin sensitivity by activating hepatic PPAR α . <i>JCI Insight</i> , 2018, 3, .	5.0	21
21	Chemoenzymatic Synthesis of Trehalosamine, an Aminoglycoside Antibiotic and Precursor to Mycobacterial Imaging Probes. <i>Journal of Organic Chemistry</i> , 2018, 83, 8662-8667.	3.2	17
22	Trehalose Recycling Promotes Energy-Efficient Biosynthesis of the Mycobacterial Cell Envelope. <i>MBio</i> , 2021, 12, .	4.1	17
23	Validamycin A Delays Development and Prevents Flight in <i>Aedes aegypti</i> (Diptera: Culicidae). <i>Journal of Medical Entomology</i> , 2020, 57, 1096-1103.	1.8	17
24	The role of chemoenzymatic synthesis in advancing trehalose analogues as tools for combatting bacterial pathogens. <i>Chemical Communications</i> , 2020, 56, 11528-11547.	4.1	14
25	Bioorthogonal Chemical Reporters for Selective In situ Probing of Mycomembrane Components in Mycobacteria. <i>Angewandte Chemie</i> , 2016, 128, 2093-2097.	2.0	12
26	PPE51 mediates uptake of trehalose across the mycomembrane of <i>Mycobacterium tuberculosis</i> . <i>Scientific Reports</i> , 2022, 12, 2097.	3.3	12
27	Rapid One-step Enzymatic Synthesis and All-aqueous Purification of Trehalose Analogues. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	11
28	Chemical probes for tagging mycobacterial lipids. <i>Current Opinion in Chemical Biology</i> , 2021, 65, 57-65.	6.1	11
29	A trifunctional cyclooctyne for modifying azide-labeled biomolecules with photocrosslinking and affinity tags. <i>Chemical Communications</i> , 2015, 51, 17600-17603.	4.1	9
30	Ferrier Carbocyclization-Mediated Synthesis of Enantiopure Azido Inositol Analogues. <i>Journal of Organic Chemistry</i> , 2020, 85, 3182-3191.	3.2	7
31	Recent Advances in the Chemical Synthesis of Glycosylphosphatidylinositols (GPIs): Expanding Synthetic Versatility for Investigating GPI Biology. <i>Journal of Carbohydrate Chemistry</i> , 2013, 32, 275-300.	1.1	4
32	Effect of Azide Position on the Rate of Azido Glucose-Cyclooctyne Cycloaddition. <i>Journal of Carbohydrate Chemistry</i> , 2014, 33, 408-419.	1.1	3
33	Metabolic Labeling of Live Mycobacteria with Trehalose-Based Probes. <i>Methods in Molecular Biology</i> , 2021, 2314, 385-398.	0.9	3