

# Zachary Armstrong

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

508  
citations

687363

13  
h-index

713466

21  
g-index

22  
all docs

22  
docs citations

22  
times ranked

780  
citing authors

#	ARTICLE	IF	CITATIONS
1	Distal Heme Pocket Residues of B-type Dye-decolorizing Peroxidase. <i>Journal of Biological Chemistry</i> , 2012, 287, 10623-10630.	3.4	90
2	An overview of activity-based probes for glycosidases. <i>Current Opinion in Chemical Biology</i> , 2019, 53, 25-36.	6.1	76
3	Synthesis of Glycans and Glycopolymers Through Engineered Enzymes. <i>Biopolymers</i> , 2013, 99, 666-674.	2.4	39
4	Metagenomics reveals functional synergy and novel polysaccharide utilization loci in the <i>Castor canadensis</i> fecal microbiome. <i>ISME Journal</i> , 2018, 12, 2757-2769.	9.8	36
5	Biomining active cellulases from a mining bioremediation system. <i>Journal of Biotechnology</i> , 2013, 167, 462-471.	3.8	35
6	Biocatalysts for biomass deconstruction from environmental genomics. <i>Current Opinion in Chemical Biology</i> , 2015, 29, 18-25.	6.1	28
7	Manno- <i>epi</i> -cyclophellitols Enable Activity-Based Protein Profiling of Human $\alpha$ -Mannosidases and Discovery of New Golgi Mannosidase II Inhibitors. <i>Journal of the American Chemical Society</i> , 2020, 142, 13021-13029.	13.7	24
8	Development and Application of a High-Throughput Functional Metagenomic Screen for Glycoside Phosphorylases. <i>Cell Chemical Biology</i> , 2019, 26, 1001-1012.e5.	5.2	23
9	Thioglycoligase derived from fungal GH3 $\beta$ -xylosidase is a multi-glycoligase with broad acceptor tolerance. <i>Nature Communications</i> , 2020, 11, 4864.	12.8	21
10	Synthesis and evaluation of a series of 6-chloro-4-methylumbelliferyl glycosides as fluorogenic reagents for screening metagenomic libraries for glycosidase activity. <i>Carbohydrate Research</i> , 2016, 421, 33-39.	2.3	20
11	Enzymatic Thioxyloside Synthesis: Characterization of Thioglycoligase Variants Identified from A Site-Saturation Mutagenesis Library of <i>Bacillus Circulans</i> Xylanase. <i>ChemBioChem</i> , 2010, 11, 533-538.	2.6	19
12	Systematic Screening of Synthetic Gene-Encoded Enzymes for Synthesis of Modified Glycosides. <i>ACS Catalysis</i> , 2019, 9, 3219-3227.	11.2	17
13	Activity-Based Protein Profiling of Retaining $\alpha$ -Amylases in Complex Biological Samples. <i>Journal of the American Chemical Society</i> , 2021, 143, 2423-2432.	13.7	17
14	Enzymatic fine-tuning for 2-(6-hydroxynaphthyl) $\beta$ -d-xylopyranoside synthesis catalyzed by the recombinant $\beta$ -xylosidase BxTW1 from <i>Talaromyces amestolkiae</i> . <i>Microbial Cell Factories</i> , 2016, 15, 171.	4.0	13
15	High-Throughput Recovery and Characterization of Metagenome-Derived Glycoside Hydrolase-Containing Clones as a Resource for Biocatalyst Development. <i>MSystems</i> , 2019, 4, .	3.8	11
16	Discovery of New Glycosidases From Metagenomic Libraries. <i>Methods in Enzymology</i> , 2017, 597, 3-23.	1.0	9
17	TreeSAPP: the Tree-based Sensitive and Accurate Phylogenetic Profiler. <i>Bioinformatics</i> , 2020, 36, 4706-4713.	4.1	8
18	Azido Groups Hamper Glycan Acceptance by Carbohydrate Processing Enzymes. <i>ACS Central Science</i> , 0, , .	11.3	7

#	ARTICLE	IF	CITATIONS
19	Structure and function of Bs164 $\beta$ -mannosidase from <i>Bacteroides salyersiae</i> the founding member of glycoside hydrolase family GH164. <i>Journal of Biological Chemistry</i> , 2020, 295, 4316-4326.	3.4	6
20	Synthesis of broad-specificity activity-based probes for <i>exo</i> - $\beta$ -mannosidases. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 877-886.	2.8	4
21	High-Throughput Generation of Product Profiles for Arabinoxylan-Active Enzymes from Metagenomes. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	3
22	The structure of <i>Phocaecicola vulgatus</i> sialic acid acetyltransferase. <i>Acta Crystallographica Section D: Structural Biology</i> , 2022, 78, 647-657.	2.3	2