

Jeremy H Mills

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

884
citations

623734

14
h-index

642732

23
g-index

24
all docs

24
docs citations

24
times ranked

1374
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical Calculations of Carbon-Oxygen Bond Dissociation Enthalpies of Peroxyl Radicals Formed in the Autoxidation of Lipids. <i>Journal of the American Chemical Society</i> , 2003, 125, 5801-5810.	13.7	148
2	Protein evolution with an expanded genetic code. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17688-17693.	7.1	138
3	Computational Design of an α -Gliadin Peptidase. <i>Journal of the American Chemical Society</i> , 2012, 134, 20513-20520.	13.7	106
4	Computational Design of an Unnatural Amino Acid Dependent Metalloprotein with Atomic Level Accuracy. <i>Journal of the American Chemical Society</i> , 2013, 135, 13393-13399.	13.7	95
5	Expanding the Product Profile of a Microbial Alkane Biosynthetic Pathway. <i>ACS Synthetic Biology</i> , 2013, 2, 59-62.	3.8	67
6	Evolution of Proteins with Genetically Encoded "Chemical Warheads". <i>Journal of the American Chemical Society</i> , 2009, 131, 9616-9617.	13.7	66
7	Computational design of a homotrimeric metalloprotein with a trisbipyridyl core. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 15012-15017.	7.1	41
8	Multicomponent Bioluminescence Imaging with a β -Extended Luciferin. <i>Journal of the American Chemical Society</i> , 2020, 142, 14080-14089.	13.7	39
9	Trapping a transition state in a computationally designed protein bottle. <i>Science</i> , 2015, 347, 863-867.	12.6	36
10	A Catalysis-Based Selection for Peroxidase Antibodies with Increased Activity. <i>Journal of the American Chemical Society</i> , 2004, 126, 3006-3007.	13.7	28
11	A Genetically Encoded Direct Sensor of Antibody-Antigen Interactions. <i>ChemBioChem</i> , 2009, 10, 2162-2164.	2.6	23
12	<i>Streptococcus pneumoniae</i> PstS Production Is Phosphate Responsive and Enhanced during Growth in the Murine Peritoneal Cavity. <i>Infection and Immunity</i> , 2001, 69, 7565-7571.	2.2	17
13	A General Strategy for Engineering Noncanonical Amino Acid Dependent Bacterial Growth. <i>Journal of the American Chemical Society</i> , 2019, 141, 16213-16216.	13.7	15
14	Metal-chelating non-canonical amino acids in metalloprotein engineering and design. <i>Current Opinion in Structural Biology</i> , 2018, 51, 170-176.	5.7	14
15	Coumarin luciferins and mutant luciferases for robust multi-component bioluminescence imaging. <i>Chemical Science</i> , 2021, 12, 11684-11691.	7.4	13
16	Improvement of a Potential Anthrax Therapeutic by Computational Protein Design. <i>Journal of Biological Chemistry</i> , 2011, 286, 32586-32592.	3.4	10
17	Structural Insights into How Protein Environments Tune the Spectroscopic Properties of a Noncanonical Amino Acid Fluorophore. <i>Biochemistry</i> , 2020, 59, 3401-3410.	2.5	7
18	The Role of Rigid Residues in Modulating TEM-1 β -Lactamase Function and Thermostability. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2895.	4.1	7

#	ARTICLE	IF	CITATIONS
19	An intrinsic FRET sensor of protein–ligand interactions. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 4079-4084.	2.8	6
20	Structural Origins of Altered Spectroscopic Properties upon Ligand Binding in Proteins Containing a Fluorescent Noncanonical Amino Acid. <i>Biochemistry</i> , 2021, 60, 2577-2585.	2.5	3
21	Lewis acid promoted Kharasch-type additions of 3-bromoacetyl-2-oxazolidinone to cycloalkenes. <i>Journal of Chemical Research</i> , 2005, 2005, 59-61.	1.3	2
22	Computational Design of Multinuclear Metalloproteins Using Unnatural Amino Acids. <i>Methods in Molecular Biology</i> , 2016, 1414, 173-185.	0.9	2
23	Structural Basis for Blocked Excited State Proton Transfer in a Fluorescent, Photoacidic Non-Canonical Amino Acid-Containing Antibody Fragment. <i>Journal of Molecular Biology</i> , 2022, 434, 167455.	4.2	1