

Louise K Charkoudian

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

944
citations

687363

13
h-index

477307

29
g-index

35
all docs

35
docs citations

35
times ranked

1684
citing authors

#	ARTICLE	IF	CITATIONS
1	MiBiG 2.0: a repository for biosynthetic gene clusters of known function. <i>Nucleic Acids Research</i> , 2020, 48, D454-D458.	14.5	351
2	Comprehensive curation and analysis of fungal biosynthetic gene clusters of published natural products. <i>Fungal Genetics and Biology</i> , 2016, 89, 18-28.	2.1	99
3	<i>FAIL</i> Is Not a Four-Letter Word: A Theoretical Framework for Exploring Undergraduate Students' Approaches to Academic Challenge and Responses to Failure in STEM Learning Environments. <i>CBE Life Sciences Education</i> , 2019, 18, ar11.	2.3	76
4	Evolution of chemical diversity by coordinated gene swaps in type II polyketide gene clusters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13952-13957.	7.1	54
5	Probing the interactions of an acyl carrier protein domain from the 6-deoxyerythronolide B synthase. <i>Protein Science</i> , 2011, 20, 1244-1255.	7.6	50
6	New Structural Data Reveal the Motion of Carrier Proteins in Nonribosomal Peptide Synthesis. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9834-9840.	13.8	45
7	A standardized workflow for submitting data to the Minimum Information about a Biosynthetic Gene cluster (MiBiG) repository: prospects for research-based educational experiences. <i>Standards in Genomic Sciences</i> , 2018, 13, 16.	1.5	35
8	Probing the Phosphopantetheine Arm Conformations of Acyl Carrier Proteins Using Vibrational Spectroscopy. <i>Journal of the American Chemical Society</i> , 2014, 136, 11240-11243.	13.7	33
9	In Living Color: Bacterial Pigments as an Untapped Resource in the Classroom and Beyond. <i>PLoS Biology</i> , 2010, 8, e1000510.	5.6	26
10	Natural product inhibitors of glucose-6-phosphate translocase. <i>MedChemComm</i> , 2012, 3, 926.	3.4	17
11	Tracking carrier protein motions with Raman spectroscopy. <i>Nature Communications</i> , 2019, 10, 2227.	12.8	15
12	Uncovering protein-protein interactions through a team-based undergraduate biochemistry course. <i>PLoS Biology</i> , 2017, 15, e2003145.	5.6	15
13	Acyl Carrier Protein Cyanylation Delivers a Ketoacyl Synthase Carrier Protein Cross-Link. <i>Biochemistry</i> , 2017, 56, 2533-2536.	2.5	14
14	Probing the selectivity of β^2 -hydroxylation reactions in non-ribosomal peptide synthesis using analytical ultracentrifugation. <i>Analytical Biochemistry</i> , 2016, 495, 42-51.	2.4	13
15	P450 monooxygenase ComJ catalyses side chain phenolic cross-coupling during complestatin biosynthesis. <i>RSC Advances</i> , 2017, 7, 35376-35384.	3.6	13
16	The Biogeography of Putative Microbial Antibiotic Production. <i>PLoS ONE</i> , 2015, 10, e0130659.	2.5	13
17	Probing the structure and function of acyl carrier proteins to unlock the strategic redesign of type II polyketide biosynthetic pathways. <i>Journal of Biological Chemistry</i> , 2021, 296, 100328.	3.4	10
18	Collaborating with Undergraduates To Contribute to Biochemistry Community Resources. <i>Biochemistry</i> , 2018, 57, 383-389.	2.5	9

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19	The effect of divalent cations on the thermostability of type II polyketide synthase acyl carrier proteins. <i>AIChE Journal</i> , 2018, 64, 4308-4318.	3.6	9
20	Widening the bottleneck: Heterologous expression, purification, and characterization of the <i>Ktedonobacter racemifer</i> minimal type II polyketide synthase in <i>Escherichia coli</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115686.	3.0	7
21	Designing convergent chemistry curricula. <i>Nature Chemical Biology</i> , 2016, 12, 382-386.	8.0	6
22	Colorimetric Assay Reports on Acyl Carrier Protein Interactions. <i>Scientific Reports</i> , 2019, 9, 15589.	3.3	6
23	The Cytochrome P450 OxyA from the Kistamicin Biosynthesis Cyclization Cascade is Highly Sensitive to Oxidative Damage. <i>Frontiers in Chemistry</i> , 2022, 10, 868240.	3.6	6
24	Neue Strukturdaten geben Einblick in die Bewegungen von Transportproteinen in der nicht-ribosomalen Peptidsynthese. <i>Angewandte Chemie</i> , 2016, 128, 9988-9995.	2.0	5
25	Utilizing Mechanistic Cross-Linking Technology To Study Protein-Protein Interactions: An Experiment Designed for an Undergraduate Biochemistry Lab. <i>Journal of Chemical Education</i> , 2017, 94, 375-379.	2.3	5
26	Vibrant symbiosis: Achieving reciprocal science outreach through biological art. <i>PLoS Biology</i> , 2018, 16, e3000061.	5.6	5
27	Studying trans-acting enzymes that target carrier protein-bound amino acids during nonribosomal peptide synthesis. <i>Methods in Enzymology</i> , 2019, 617, 113-154.	1.0	3
28	Engineered Chimeras Unveil Swappable Modular Features of Fatty Acid and Polyketide Synthase Acyl Carrier Proteins. <i>Biochemistry</i> , 2022, 61, 217-227.	2.5	2
29	ActinoBase: tools and protocols for researchers working on <i>Streptomyces</i> and other filamentous actinobacteria. <i>Microbial Genomics</i> , 2022, 8, .	2.0	2
30	Constructing Combinatorial Synthases Using Acyl Carrier Protein Chimeras. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
31	Bioprospecting for Novel Natural Products in Ancient Non-Actinobacteria. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
32	Heterologous Expression, Purification, and Characterization of Type II Polyketide Synthase Acyl Carrier Proteins. <i>Methods in Molecular Biology</i> , 2022, 2489, 239-267.	0.9	0