

Danielle Tullman-Ercek

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

1,744
citations

304743

22
h-index

315739

38
g-index

73
all docs

73
docs citations

73
times ranked

1857
citing authors

#	ARTICLE	IF	CITATIONS
1	Density-based binning of gene clusters to infer function or evolutionary history using GeneGrouper. <i>Bioinformatics</i> , 2022, 38, 612-620.	4.1	4
2	Functional enzyme-polymer complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2119509119.	7.1	13
3	Mussel Adhesive-Inspired Proteomimetic Polymer. <i>Journal of the American Chemical Society</i> , 2022, 144, 4383-4392.	13.7	24
4	Linking the <i>Salmonella enterica</i> 1,2-Propanediol Utilization Bacterial Microcompartment Shell to the Enzymatic Core via the Shell Protein PduB. <i>Journal of Bacteriology</i> , 2022, 204, e0057621.	2.2	7
5	Vertex protein PduN tunes encapsulated pathway performance by dictating bacterial metabolosome morphology. <i>Nature Communications</i> , 2022, 13, .	12.8	7
6	Self-assembling Shell Proteins PduA and PduJ have Essential and Redundant Roles in Bacterial Microcompartment Assembly. <i>Journal of Molecular Biology</i> , 2021, 433, 166721.	4.2	24
7	An optimized growth medium for increased recombinant protein secretion titer via the type III secretion system. <i>Microbial Cell Factories</i> , 2021, 20, 44.	4.0	7
8	Dynamic Control of Gene Expression with Riboregulated Switchable Feedback Promoters. <i>ACS Synthetic Biology</i> , 2021, 10, 1199-1213.	3.8	19
9	Computational and Experimental Approaches to Controlling Bacterial Microcompartment Assembly. <i>ACS Central Science</i> , 2021, 7, 658-670.	11.3	21
10	High-Throughput Screening Test for Adhesion in Soft Materials Using Centrifugation. <i>ACS Central Science</i> , 2021, 7, 1135-1143.	11.3	7
11	Bacterial microcompartments: tiny organelles with big potential. <i>Current Opinion in Microbiology</i> , 2021, 63, 36-42.	5.1	24
12	Editorial overview: Bacterial microcompartments to the fore as metabolism is put in its place. <i>Current Opinion in Microbiology</i> , 2021, 64, 159-161.	5.1	0
13	Engineering a Virus-like Particle to Display Peptide Insertions Using an Apparent Fitness Landscape. <i>Biomacromolecules</i> , 2020, 21, 4194-4204.	5.4	13
14	Apparent size and morphology of bacterial microcompartments varies with technique. <i>PLoS ONE</i> , 2020, 15, e0226395.	2.5	27
15	Multiplexed mass spectrometry of individual ions improves measurement of proteoforms and their complexes. <i>Nature Methods</i> , 2020, 17, 391-394.	19.0	110
16	A genomic integration platform for heterologous cargo encapsulation in 1,2-propanediol utilization bacterial microcompartments. <i>Biochemical Engineering Journal</i> , 2020, 156, 107496.	3.6	18
17	Editorial overview: Energy biotechnology. <i>Current Opinion in Biotechnology</i> , 2019, 57, vii-ix.	6.6	0
18	Learning from protein fitness landscapes: a review of mutability, epistasis, and evolution. <i>Current Opinion in Systems Biology</i> , 2019, 14, 25-31.	2.6	13

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19	Systematic Engineering of a Protein Nanocage for High-Yield, Site-Specific Modification. <i>Journal of the American Chemical Society</i> , 2019, 141, 3875-3884.	13.7	25
20	Cargo encapsulation in bacterial microcompartments: Methods and analysis. <i>Methods in Enzymology</i> , 2019, 617, 155-186.	1.0	22
21	Experimental Evaluation of Coevolution in a Self-Assembling Particle. <i>Biochemistry</i> , 2019, 58, 1527-1538.	2.5	19
22	Engineering expression and function of membrane proteins. <i>Methods</i> , 2018, 147, 66-72.	3.8	13
23	Quantitative characterization of all single amino acid variants of a viral capsid-based drug delivery vehicle. <i>Nature Communications</i> , 2018, 9, 1385.	12.8	43
24	Evolutionary engineering improves tolerance for medium-chain alcohols in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology for Biofuels</i> , 2018, 11, 90.	6.2	17
25	Developing Gram-negative bacteria for the secretion of heterologous proteins. <i>Microbial Cell Factories</i> , 2018, 17, 196.	4.0	84
26	An estimate is worth about a thousand experiments: using order-of-magnitude estimates to identify cellular engineering targets. <i>Microbial Cell Factories</i> , 2018, 17, 135.	4.0	1
27	Spatially organizing biochemistry: choosing a strategy to translate synthetic biology to the factory. <i>Scientific Reports</i> , 2018, 8, 8196.	3.3	14
28	A <i>Pseudomonas putida</i> efflux pump acts on short-chain alcohols. <i>Biotechnology for Biofuels</i> , 2018, 11, 136.	6.2	42
29	Type III Secretion Filaments as Templates for Metallic Nanostructure Synthesis. <i>Methods in Molecular Biology</i> , 2018, 1798, 155-171.	0.9	0
30	Dissecting difference in heterologous protein secretion titer by Type III secretion system between strains of <i>Salmonella enterica</i> . <i>FASEB Journal</i> , 2018, 32, 674.22.	0.5	0
31	<i>De novo</i> design of signal sequences to localize cargo to the 1,2- ϵ -propanediol utilization microcompartment. <i>Protein Science</i> , 2017, 26, 1086-1092.	7.6	30
32	Evidence for Improved Encapsulated Pathway Behavior in a Bacterial Microcompartment through Shell Protein Engineering. <i>ACS Synthetic Biology</i> , 2017, 6, 1880-1891.	3.8	71
33	Practical considerations for the encapsulation of multi-enzyme cargos within the bacterial microcompartment for metabolic engineering. <i>Current Opinion in Systems Biology</i> , 2017, 5, 16-22.	2.6	16
34	A Secretion-Amplification Role for <i>Salmonella enterica</i> Translocon Protein SipD. <i>ACS Synthetic Biology</i> , 2017, 6, 1006-1015.	3.8	17
35	Use of Transcriptional Control to Increase Secretion of Heterologous Proteins in T3S Systems. <i>Methods in Molecular Biology</i> , 2017, 1531, 71-79.	0.9	2
36	A systems-level model reveals that 1,2-Propanediol utilization microcompartments enhance pathway flux through intermediate sequestration. <i>PLoS Computational Biology</i> , 2017, 13, e1005525.	3.2	51

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37	Type III secretion as a generalizable strategy for the production of full-length biopolymer-forming proteins. <i>Biotechnology and Bioengineering</i> , 2016, 113, 2313-2320.	3.3	26
38	Proteins adopt functionally active conformations after type III secretion. <i>Microbial Cell Factories</i> , 2016, 15, 213.	4.0	10
39	Tuning the Catalytic Activity of Subcellular Nanoreactors. <i>Journal of Molecular Biology</i> , 2016, 428, 2989-2996.	4.2	27
40	A Selection for Assembly Reveals That a Single Amino Acid Mutant of the Bacteriophage MS2 Coat Protein Forms a Smaller Virus-like Particle. <i>Nano Letters</i> , 2016, 16, 5944-5950.	9.1	36
41	Type-III secretion filaments as scaffolds for inorganic nanostructures. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20150938.	3.4	7
42	Transcriptional feedback regulation of efflux protein expression for increased tolerance to and production of n-butanol. <i>Metabolic Engineering</i> , 2016, 33, 130-137.	7.0	48
43	Dumpster Diving in the Gut: Bacterial Microcompartments as Part of a Host-Associated Lifestyle. <i>PLoS Pathogens</i> , 2016, 12, e1005558.	4.7	45
44	Getting pumped: membrane efflux transporters for enhanced biomolecule production. <i>Current Opinion in Chemical Biology</i> , 2015, 28, 15-19.	6.1	41
45	'Channeling' Hans Krebs. <i>Nature Chemical Biology</i> , 2015, 11, 180-181.	8.0	7
46	Influence of Electrostatics on Small Molecule Flux through a Protein Nanoreactor. <i>ACS Synthetic Biology</i> , 2015, 4, 1011-1019.	3.8	58
47	Localization of Proteins to the 1,2-Propanediol Utilization Microcompartment by Non-native Signal Sequences Is Mediated by a Common Hydrophobic Motif. <i>Journal of Biological Chemistry</i> , 2015, 290, 24519-24533.	3.4	53
48	Engineering Transcriptional Regulation to Control Pdu Microcompartment Formation. <i>PLoS ONE</i> , 2014, 9, e113814.	2.5	25
49	Using Transcriptional Control To Increase Titers of Secreted Heterologous Proteins by the Type III Secretion System. <i>Applied and Environmental Microbiology</i> , 2014, 80, 5927-5934.	3.1	18
50	The effects of time, temperature, and pH on the stability of PDU bacterial microcompartments. <i>Protein Science</i> , 2014, 23, 1434-1441.	7.6	16
51	A rapid flow cytometry assay for the relative quantification of protein encapsulation into bacterial microcompartments. <i>Biotechnology Journal</i> , 2014, 9, 348-354.	3.5	41
52	Production and applications of engineered viral capsids. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 5847-5858.	3.6	69
53	Enhancing Tolerance to Short-Chain Alcohols by Engineering the Escherichia coli AcrB Efflux Pump to Secrete the Non-native Substrate n-Butanol. <i>ACS Synthetic Biology</i> , 2014, 3, 30-40.	3.8	103
54	Engineering nanoscale protein compartments for synthetic organelles. <i>Current Opinion in Biotechnology</i> , 2013, 24, 627-632.	6.6	55

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55	An assay for the bacterial sweet spot. <i>Biotechnology Journal</i> , 2013, 8, 1377-1378.	3.5	0
56	Osmolyte-Mediated Encapsulation of Proteins inside MS2 Viral Capsids. <i>ACS Nano</i> , 2012, 6, 8658-8664.	14.6	110
57	Engineering the <i>Salmonella</i> type III secretion system to export spider silk monomers. <i>Molecular Systems Biology</i> , 2009, 5, 309.	7.2	130