

David F Savage

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7201267/publications.pdf>

Version: 2024-02-01

44
papers

3,438
citations

186209

28
h-index

243529

44
g-index

67
all docs

67
docs citations

67
times ranked

4099
citing authors

#	ARTICLE	IF	CITATIONS
1	Ratiometric Sensing of Redox Environments Inside Individual Carboxysomes Trapped in Solution. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4455-4462.	2.1	7
2	Workshop-based learning and networking: a scalable model for research capacity strengthening in low- and middle-income countries. <i>Global Health Action</i> , 2022, 15, .	0.7	0
3	Discovery and characterization of a novel family of prokaryotic nanocompartments involved in sulfur metabolism. <i>ELife</i> , 2021, 10, .	2.8	45
4	New discoveries expand possibilities for carboxysome engineering. <i>Current Opinion in Microbiology</i> , 2021, 61, 58-66.	2.3	32
5	Accelerated RNA detection using tandem CRISPR nucleases. <i>Nature Chemical Biology</i> , 2021, 17, 982-988.	3.9	135
6	Comprehensive deletion landscape of CRISPR-Cas9 identifies minimal RNA-guided DNA-binding modules. <i>Nature Communications</i> , 2021, 12, 5664.	5.8	25
7	A nanocompartment system contributes to defense against oxidative stress in <i>Mycobacterium tuberculosis</i> . <i>ELife</i> , 2021, 10, .	2.8	15
8	The encapsulin from <i>Thermotoga maritima</i> is a flavoprotein with a symmetry matched ferritin-like cargo protein. <i>Scientific Reports</i> , 2021, 11, 22810.	1.6	16
9	Encapsulin carrier proteins for enhanced expression of antimicrobial peptides. <i>Biotechnology and Bioengineering</i> , 2020, 117, 603-613.	1.7	21
10	Recent advances on the structure and function of NDH-1: The complex I of oxygenic photosynthesis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148254.	0.5	33
11	Multivalent interactions between CsoS2 and Rubisco mediate $\hat{\pm}$ -carboxysome formation. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 281-287.	3.6	110
12	Functional reconstitution of a bacterial CO ₂ concentrating mechanism in <i>Escherichia coli</i> . <i>ELife</i> , 2020, 9, .	2.8	72
13	DABs are inorganic carbon pumps found throughout prokaryotic phyla. <i>Nature Microbiology</i> , 2019, 4, 2204-2215.	5.9	44
14	Revisiting Trade-offs between Rubisco Kinetic Parameters. <i>Biochemistry</i> , 2019, 58, 3365-3376.	1.2	142
15	Structure of the Cyanobacterial NAD(P)H Dehydrogenase-Like Complex of Oxygenic Photosynthesis. <i>Microscopy and Microanalysis</i> , 2019, 25, 1326-1327.	0.2	0
16	Circularly permuted and PAM-modified Cas9 variants broaden the targeting scope of base editors. <i>Nature Biotechnology</i> , 2019, 37, 626-631.	9.4	207
17	Controlling CRISPR-Cas9 with ligand-activated and ligand-deactivated sgRNAs. <i>Nature Communications</i> , 2019, 10, 2127.	5.8	133
18	Multiplexed Charge Detection Mass Spectrometry for High-Throughput Single Ion Analysis of Large Molecules. <i>Analytical Chemistry</i> , 2019, 91, 7458-7465.	3.2	48

#	ARTICLE	IF	CITATIONS
19	Learning to Build a $\hat{\Gamma}^2$ -Carboxysome. <i>Biochemistry</i> , 2019, 58, 2091-2092.	1.2	4
20	Cas14: Big Advances from Small CRISPR Proteins. <i>Biochemistry</i> , 2019, 58, 1024-1025.	1.2	41
21	Structure of the complex I-like molecule NDH of $\hat{\Gamma}$ oxygenic photosynthesis. <i>Nature</i> , 2019, 566, 411-414.	13.7	123
22	CRISPR-Cas9 Circular Permutants as Programmable Scaffolds for Genome Modification. <i>Cell</i> , 2019, 176, 254-267.e16.	13.5	73
23	A Hard Day's Night: Cyanobacteria in Diel Cycles. <i>Trends in Microbiology</i> , 2019, 27, 231-242.	3.5	89
24	Protein Science by DNA Sequencing: How Advances in Molecular Biology Are Accelerating Biochemistry. <i>Biochemistry</i> , 2018, 57, 38-46.	1.2	12
25	Encapsulins: molecular biology of the shell. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2017, 52, 583-594.	2.3	76
26	Rapid and Programmable Protein Mutagenesis Using Plasmid Recombineering. <i>ACS Synthetic Biology</i> , 2017, 6, 1825-1833.	1.9	24
27	Editorial Overview. Biofuels: At the crossroads. <i>Current Opinion in Chemical Biology</i> , 2016, 35, A1-A3.	2.8	1
28	Profiling of engineering hotspots identifies an allosteric CRISPR-Cas9 switch. <i>Nature Biotechnology</i> , 2016, 34, 646-651.	9.4	180
29	The stringent response regulates adaptation to darkness in the cyanobacterium <i>Synechococcus elongatus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4867-76.	3.3	82
30	pH determines the energetic efficiency of the cyanobacterial CO ₂ concentrating mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5354-62.	3.3	166
31	Rapid construction of metabolite biosensors using domain-insertion profiling. <i>Nature Communications</i> , 2016, 7, 12266.	5.8	104
32	An open-hardware platform for optogenetics and photobiology. <i>Scientific Reports</i> , 2016, 6, 35363.	1.6	108
33	Biofuel metabolic engineering with biosensors. <i>Current Opinion in Chemical Biology</i> , 2016, 35, 150-158.	2.8	24
34	Identification of a Minimal Peptide Tag for <i>in Vivo</i> and <i>in Vitro</i> Loading of Encapsulin. <i>Biochemistry</i> , 2016, 55, 3461-3468.	1.2	89
35	Programmed Ribosomal Frameshifting Mediates Expression of the $\hat{\Gamma}^2$ -Carboxysome. <i>Journal of Molecular Biology</i> , 2016, 428, 153-164.	2.0	50
36	Live-cell imaging of cyanobacteria. <i>Photosynthesis Research</i> , 2015, 126, 33-46.	1.6	30

#	ARTICLE	IF	CITATIONS
37	Protein Engineering of Cas9 for Enhanced Function. <i>Methods in Enzymology</i> , 2014, 546, 491-511.	0.4	23
38	The Bacterial Carbon-Fixing Organelle Is Formed by Shell Envelopment of Preassembled Cargo. <i>PLoS ONE</i> , 2013, 8, e76127.	1.1	114
39	Modularity of a carbon-fixing protein organelle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 478-483.	3.3	231
40	Spatial and Temporal Organization of Chromosome Duplication and Segregation in the Cyanobacterium <i>Synechococcus elongatus</i> PCC 7942. <i>PLoS ONE</i> , 2012, 7, e47837.	1.1	57
41	Spatially Ordered Dynamics of the Bacterial Carbon Fixation Machinery. <i>Science</i> , 2010, 327, 1258-1261.	6.0	289
42	Structural context shapes the aquaporin selectivity filter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17164-17169.	3.3	74
43	A general protocol for the crystallization of membrane proteins for X-ray structural investigation. <i>Nature Protocols</i> , 2009, 4, 619-637.	5.5	116
44	Defossilizing Fuel: How Synthetic Biology Can Transform Biofuel Production. <i>ACS Chemical Biology</i> , 2008, 3, 13-16.	1.6	91