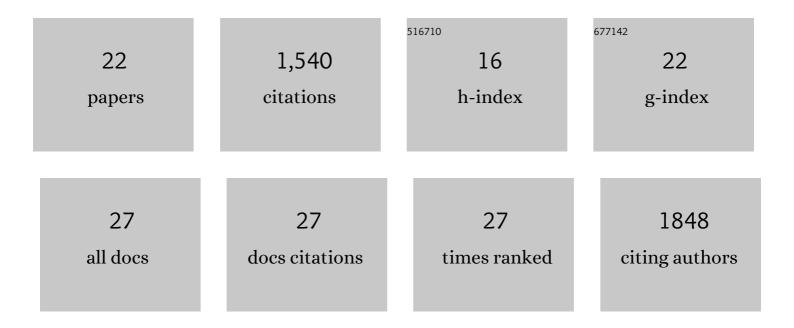
Troy E Sandberg

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8731896/publications.pdf Version: 2024-02-01



TDOV E SANDREDC

#	Article	IF	CITATIONS
1	Bacterial fitness landscapes stratify based on proteome allocation associated with discrete aero-types. PLoS Computational Biology, 2021, 17, e1008596.	3.2	14
2	OxyR Is a Convergent Target for Mutations Acquired during Adaptation to Oxidative Stress-Prone Metabolic States. Molecular Biology and Evolution, 2020, 37, 660-667.	8.9	52
3	The Bitome: digitized genomic features reveal fundamental genome organization. Nucleic Acids Research, 2020, 48, 10157-10163.	14.5	11
4	Synthetic cross-phyla gene replacement and evolutionary assimilation of major enzymes. Nature Ecology and Evolution, 2020, 4, 1402-1409.	7.8	13
5	Causal mutations from adaptive laboratory evolution are outlined by multiple scales of genome annotations and condition-specificity. BMC Genomics, 2020, 21, 514.	2.8	23
6	The emergence of adaptive laboratory evolution as an efficient tool for biological discovery and industrial biotechnology. Metabolic Engineering, 2019, 56, 1-16.	7.0	307
7	Cellular responses to reactive oxygen species are predicted from molecular mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14368-14373.	7.1	79
8	Pseudogene repair driven by selection pressure applied in experimental evolution. Nature Microbiology, 2019, 4, 386-389.	13.3	21
9	Laboratory evolution reveals a two-dimensional rate-yield tradeoff in microbial metabolism. PLoS Computational Biology, 2019, 15, e1007066.	3.2	33
10	The genetic basis for adaptation of model-designed syntrophic co-cultures. PLoS Computational Biology, 2019, 15, e1006213.	3.2	17
11	Enzyme promiscuity shapes adaptation to novel growth substrates. Molecular Systems Biology, 2019, 15, e8462.	7.2	52
12	Evolution of gene knockout strains of E. coli reveal regulatory architectures governed by metabolism. Nature Communications, 2018, 9, 3796.	12.8	59
13	Growth Adaptation of gnd and sdhCB Escherichia coli Deletion Strains Diverges From a Similar Initial Perturbation of the Transcriptome. Frontiers in Microbiology, 2018, 9, 1793.	3.5	23
14	Adaptation to the coupling of glycolysis to toxic methylglyoxal production in tpiA deletion strains of Escherichia coli requires synchronized and counterintuitive genetic changes. Metabolic Engineering, 2018, 48, 82-93.	7.0	38
15	Multiple Optimal Phenotypes Overcome Redox and Glycolytic Intermediate Metabolite Imbalances in Escherichia coli pgi Knockout Evolutions. Applied and Environmental Microbiology, 2018, 84, .	3.1	22
16	Adaptive laboratory evolution resolves energy depletion to maintain high aromatic metabolite phenotypes in Escherichia coli strains lacking the Phosphotransferase System. Metabolic Engineering, 2018, 48, 233-242.	7.0	43
17	Laboratory Evolution to Alternating Substrate Environments Yields Distinct Phenotypic and Genetic Adaptive Strategies. Applied and Environmental Microbiology, 2017, 83, .	3.1	76
18	Evolution of E. coli on [U-13C]Glucose Reveals a Negligible Isotopic Influence on Metabolism and Physiology. PLoS ONE, 2016, 11, e0151130.	2.5	54

TROY E SANDBERG

#	Article	IF	CITATIONS
19	Use of Adaptive Laboratory Evolution To Discover Key Mutations Enabling Rapid Growth of Escherichia coli K-12 MG1655 on Glucose Minimal Medium. Applied and Environmental Microbiology, 2015, 81, 17-30.	3.1	235
20	Evolution of Escherichia coli to 42 °C and Subsequent Genetic Engineering Reveals Adaptive Mechanisms and Novel Mutations. Molecular Biology and Evolution, 2014, 31, 2647-2662.	8.9	145
21	Fast Metabolic Response to Drug Intervention Through Analysis on a Miniaturized, Highly Integrated Molecular Imaging System. Journal of Nuclear Medicine, 2013, 54, 1820-1824.	5.0	10
22	Human Protein Arginine Methyltransferase 7 (PRMT7) Is a Type III Enzyme Forming ω-N-Monomethylated Arginine Residues. Journal of Biological Chemistry, 2012, 287, 7859-7870.	3.4	208