

Michael A. Sorensen

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

2,600
citations

361413

20
h-index

434195

31
g-index

38
all docs

38
docs citations

38
times ranked

2771
citing authors

#	ARTICLE	IF	CITATIONS
1	Codon usage determines translation rate in <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 1989, 207, 365-377.	4.2	537
2	Absolute in vivo translation rates of individual codons in <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 1991, 222, 265-280.	4.2	260
3	Selective charging of tRNA isoacceptors induced by amino acid starvation. <i>EMBO Reports</i> , 2005, 6, 151-157.	4.5	201
4	Prophages and Growth Dynamics Confound Experimental Results with Antibiotic-Tolerant Persister Cells. <i>MBio</i> , 2017, 8, .	4.1	190
5	Synthesis of Proteins in <i>Escherichia coli</i> is Limited by the Concentration of Free Ribosomes. <i>Journal of Molecular Biology</i> , 1993, 231, 678-688.	4.2	188
6	Ribosomal protein S1 is required for translation of most, if not all, natural mRNAs in <i>Escherichia coli</i> in vivo. <i>Journal of Molecular Biology</i> , 1998, 280, 561-569.	4.2	184
7	Ribosome Hibernation. <i>Annual Review of Genetics</i> , 2018, 52, 321-348.	7.6	110
8	The modification of the wobble base of tRNA ^{Glu} modulates the translation rate of glutamic acid codons in vivo. <i>Journal of Molecular Biology</i> , 1998, 284, 621-631.	4.2	106
9	Correlation between mechanical strength of messenger RNA pseudoknots and ribosomal frameshifting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 5830-5835.	7.1	104
10	High Concentrations of ppGpp Decrease the RNA Chain Growth Rate. <i>Journal of Molecular Biology</i> , 1994, 236, 441-454.	4.2	81
11	Charging levels of four tRNA species in <i>Escherichia coli</i> Rel ⁺ and Rel ^Δ strains during amino acid starvation: a simple model for the effect of ppGpp on translational accuracy ¹ Edited by D. E. Draper. <i>Journal of Molecular Biology</i> , 2001, 307, 785-798.	4.2	78
12	Decreasing transcription elongation rate in <i>Escherichia coli</i> exposed to amino acid starvation. <i>Molecular Microbiology</i> , 1992, 6, 2191-2200.	2.5	75
13	mRNA pseudoknot structures can act as ribosomal roadblocks. <i>Nucleic Acids Research</i> , 2012, 40, 303-313.	14.5	69
14	Transfer RNA is highly unstable during early amino acid starvation in <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 2017, 45, 793-804.	14.5	66
15	Aminoacylation of hypomodified tRNA ^{Glu} in vivo. <i>Journal of Molecular Biology</i> , 1998, 284, 609-620.	4.2	57
16	Pseudouridylation of helix 69 of 23S rRNA is necessary for an effective translation termination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 19410-19415.	7.1	54
17	Over Expression of a tRNA ^{Leu} Isoacceptor Changes Charging Pattern of Leucine tRNAs and Reveals New Codon Reading. <i>Journal of Molecular Biology</i> , 2005, 354, 16-24.	4.2	47
18	Short-term kinetics of rRNA degradation in <i>Escherichia coli</i> upon starvation for carbon, amino acid or phosphate. <i>Molecular Microbiology</i> , 2020, 113, 951-963.	2.5	33

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19	Rapid Curtailing of the Stringent Response by Toxin-Antitoxin Module-Encoded mRNases. <i>Journal of Bacteriology</i> , 2016, 198, 1918-1926.	2.2	27
20	Transfer RNA instability as a stress response in <i>Escherichia coli</i> : Rapid dynamics of the tRNA pool as a function of demand. <i>RNA Biology</i> , 2018, 15, 586-593.	3.1	25
21	Hibernation factors directly block ribonucleases from entering the ribosome in response to starvation. <i>Nucleic Acids Research</i> , 2021, 49, 2226-2239.	14.5	21
22	Valine-Induced Isoleucine Starvation in <i>Escherichia coli</i> K-12 Studied by Spike-In Normalized RNA Sequencing. <i>Frontiers in Genetics</i> , 2020, 11, 144.	2.3	14
23	Quantification of the Abundance and Charging Levels of Transfer RNAs in <i>Escherichia coli</i> . <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	13
24	The rates of macromolecular chain elongation modulate the initiation frequencies for transcription and translation in <i>Escherichia coli</i> . <i>Antonie Van Leeuwenhoek</i> , 1993, 63, 323-331.	1.7	10
25	Isolation and characterization of mutants with impaired regulation of <i>rpsA</i> , the gene encoding ribosomal protein S1 of <i>Escherichia coli</i> . <i>Molecular Genetics and Genomics</i> , 1993, 240, 23-28.	2.4	8
26	Existence of log-phase <i>Escherichia coli</i> persisters and lasting memory of a starvation pulse. <i>Life Science Alliance</i> , 2022, 5, e202101076.	2.8	8
27	Distinct Survival, Growth Lag, and rRNA Degradation Kinetics during Long-Term Starvation for Carbon or Phosphate. <i>MSphere</i> , 2022, 7, e0100621.	2.9	7
28	Determination of the Peptide Elongation Rate In Vivo. , 1998, 77, 129-142.		6
29	Polyamines are Required for tRNA Anticodon Modification in <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 2021, 433, 167073.	4.2	6
30	A Novel Complex: A Quantum Dot Conjugated to an Active T ₇ RNA Polymerase. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-9.	2.7	5
31	Three Ribosomal Operons of <i>Escherichia coli</i> Contain Genes Encoding Small RNAs That Interact With Hfq and CsrA in vitro. <i>Frontiers in Microbiology</i> , 2021, 12, 625585.	3.5	3
32	Measurement of translation rates in vivo at individual codons and implication of these rate differences for gene expression. , 1990, , 207-216.		1
33	Fullerenes May Induce Physical Changes of DNA - an Optical Tweezers Study. <i>Biophysical Journal</i> , 2009, 96, 344a.	0.5	0
34	Force Spectroscopy of DNA and RNA: Structure and Kinetics from Single-Molecule Experiments. <i>Nucleic Acids and Molecular Biology</i> , 2014, , 23-52.	0.2	0