Steen - Pedersen

List of Publications by Year
in descending order

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35 papers	2,896 citations	279701 23 h-index	454834 30 g-index
35 all docs	35 docs citations	35 times ranked	2557 citing authors

#	Article	IF	Citations
1	Codon usage determines translation rate in Escherichia coli. Journal of Molecular Biology, 1989, 207, 365-377.	2.0	537
2	Absolute in vivo translation rates of individual codons in Escherichia coli. Journal of Molecular Biology, 1991, 222, 265-280.	2.0	260
3	Molecular crowding limits translation and cell growth. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16754-16759.	3.3	241
4	Synthesis of Proteins in Escherichia coli is Limited by the Concentration of Free Ribosomes. Journal of Molecular Biology, 1993, 231, 678-688.	2.0	188
5	Ribosomal protein S1 is required for translation of most, if not all, natural mRNAs in Escherichia coli in vivo. Journal of Molecular Biology, 1998, 280, 561-569.	2.0	184
6	Limiting factors inEscherichia colifed-batch production of recombinant proteins. Biotechnology and Bioengineering, 2003, 81, 158-166.	1.7	135
7	Ribosome Collisions and Translation Efficiency: Optimization by Codon Usage and mRNA Destabilization. Journal of Molecular Biology, 2008, 382, 236-245.	2.0	135
8	Biosynthetic regulation of individual proteins in relA + and relA strains of Escherichia coli during amino acid starvation. Molecular Genetics and Genomics, 1976, 149, 279-289.	2.4	132
9	Functional mRNA half lives in E. coli. Molecular Genetics and Genomics, 1978, 166, 329-336.	2.4	129
10	Analysis of the proteins synthesized in ultraviolet light-irradiated Escherichia coli following infection with the bacteriophages Î»drif d 18 and Î»dfus-3. Molecular Genetics and Genomics, 1976, 144, 339-343.	2.4	114
11	The modification of the wobble base of tRNAGlu modulates the translation rate of glutamic acid codons in vivo. Journal of Molecular Biology, 1998, 284, 621-631.	2.0	106
12	High Concentrations of ppGpp Decrease the RNA Chain Growth Rate. Journal of Molecular Biology, 1994, 236, 441-454.	2.0	81
13	Decreasing transcription elongation rate in Escherichia Coli exposed to amino acid starvation. Molecular Microbiology, 1992, 6, 2191-2200.	1.2	75
14	Absolute quantification of translational regulation and burden using combined sequencing approaches. Molecular Systems Biology, 2019, 15, e8719.	3.2	61
15	Cloning, restriction endonuclease mapping and post-transcriptional regulation of rpsA, the structural gene for ribosomal protein S1. Molecular Genetics and Genomics, 1981, 181, 548-551.	2.4	60
16	Effect of DNA Conformation on Ribosomal RNA Synthesis in vitro. Nature: New Biology, 1973, 243, 161-163.	4.5	54
17	Pseudouridylation of helix 69 of 23S rRNA is necessary for an effective translation termination. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19410-19415.	3.3	54
18	Transcriptional organization of the rpsA operon of Escherichia coli. Molecular Genetics and Genomics, 1984, 196, 135-140.	2.4	52

#	Article	IF	Citations
19	Localization and regulation of the structural gene for transcription-termination factor rho of Escherichia coli. Journal of Molecular Biology, 1982, 162, 283-298.	2.0	48
20	Post-translational modification of Escherichia coli ribosomal protein S6. Molecular Genetics and Genomics, 1979, 173, 183-187.	2.4	38
21	Isolation of a transducing phage carrying rpsT, the structural gene for ribosomal protein S20. Molecular Genetics and Genomics, 1976, 144, 115-118.	2.4	37
22	A transducing bacteriophage Î» carrying the structural gene for elongation factor Ts. Molecular Genetics and Genomics, 1976, 148, 93-98.	2.4	31
23	Economy of Operon Formation: Cotranscription Minimizes Shortfall in Protein Complexes. MBio, 2010, 1, .	1.8	31
24	The Functional Half-Life of an mRNA Depends on the Ribosome Spacing in an Early Coding Region. Journal of Molecular Biology, 2011, 407, 35-44.	2.0	27
25	Control of ribosome traffic by position-dependent choice of synonymous codons. Physical Biology, 2013, 10, 056011.	0.8	20
26	Occlusion of the Ribosome Binding Site Connects the Translational Initiation Frequency, mRNA Stability and Premature Transcription Termination. Frontiers in Microbiology, 2017, 8, 362.	1.5	19
27	Thermodynamics of Heat-Shock Response. Physical Review Letters, 2000, 84, 3005-3008.	2.9	14
28	The rates of macromolecular chain elongation modulate the initiation frequencies for transcription and translation inEscherichia coli. Antonie Van Leeuwenhoek, 1993, 63, 323-331.	0.7	10
29	Isolation and characterization of mutants with impaired regulation of rpsA, the gene encoding ribosomal protein S1 of Escherichia coli. Molecular Genetics and Genomics, 1993, 240, 23-28.	2.4	8
30	Determination of the Peptide Elongation Rate In Vivo. , 1998, 77, 129-142.		6
31	Fast Translation within the First 45 Codons Decreases mRNA Stability and Increases Premature Transcription Termination in E. coli. Journal of Molecular Biology, 2019, 431, 1088-1097.	2.0	4
32	REGULATION OF ESCHERICHIA COLI ELONGATION FACTOR SYNTHESIS IN VIVO. , 1978, , 89-98.		3
33	RIBOSOMAL PROTEIN L10 AND S1 CONTROL THEIR OWN SYNTHESIS. , 1982, , 119-128.		1
34	Measurement of translation rates in vivo at individual codons and implication of these rate differences for gene expression. , 1990, , 207-216.		1
35	1P-124 Ribosome collisions in translation process and translation efficiency(The 46th Annual Meeting) Tj ETQq1 1 0.784314 rgBT /Ov	0.0	0