Steen - Pedersen

List of Publications by Year
in descending order

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	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
2	Absolute quantification of translational regulation and burden using combined sequencing approaches. Molecular Systems Biology, 2019, 15, e8719.	3.2	61
3	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
4	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
5	Control of ribosome traffic by position-dependent choice of synonymous codons. Physical Biology, 2013, 10, 056011.	0.8	20
6	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
7	Economy of Operon Formation: Cotranscription Minimizes Shortfall in Protein Complexes. MBio, 2010, 1, .	1.8	31
8	Ribosome Collisions and Translation Efficiency: Optimization by Codon Usage and mRNA Destabilization. Journal of Molecular Biology, 2008, 382, 236-245.	2.0	135
9	1P-124 Ribosome collisions in translation process and translation efficiency(The 46th Annual Meeting) Tj ETQq1 1 0.784314 rgBT /Overl	0.0	0
10	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
11	Limiting factors inEscherichia colifed-batch production of recombinant proteins. Biotechnology and Bioengineering, 2003, 81, 158-166.	1.7	135
12	Thermodynamics of Heat-Shock Response. Physical Review Letters, 2000, 84, 3005-3008.	2.9	14
13	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
14	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
15	Determination of the Peptide Elongation Rate In Vivo. , 1998, 77, 129-142.		6
16	High Concentrations of ppGpp Decrease the RNA Chain Growth Rate. Journal of Molecular Biology, 1994, 236, 441-454.	2.0	81
17	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
18	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

#	Article	IF	Citations
19	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
20	Decreasing transcription elongation rate in Escherichia Coli exposed to amino acid starvation. Molecular Microbiology, 1992, 6, 2191-2200.	1.2	75
21	Absolute in vivo translation rates of individual codons in Escherichia coli. Journal of Molecular Biology, 1991, 222, 265-280.	2.0	260
22	Measurement of translation rates in vivo at individual codons and implication of these rate differences for gene expression. , 1990, , 207-216.		1
23	Codon usage determines translation rate in Escherichia coli. Journal of Molecular Biology, 1989, 207, 365-377.	2.0	537
24	Transcriptional organization of the rpsA operon of Escherichia coli. Molecular Genetics and Genomics, 1984, 196, 135-140.	2.4	52
25	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
26	RIBOSOMAL PROTEIN L10 AND S1 CONTROL THEIR OWN SYNTHESIS. , 1982, , 119-128.		1
27	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
28	Post-translational modification of Escherichia coli ribosomal protein S6. Molecular Genetics and Genomics, 1979, 173, 183-187.	2.4	38
29	Functional mRNA half lives in E. coli. Molecular Genetics and Genomics, 1978, 166, 329-336.	2.4	129
30	REGULATION OF ESCHERICHIA COLI ELONGATION FACTOR SYNTHESIS IN VIVO. , 1978, , 89-98.		3
31	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
32	A transducing bacteriophage Î» carrying the structural gene for elongation factor Ts. Molecular Genetics and Genomics, 1976, 148, 93-98.	2.4	31
33	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
34	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
35	Effect of DNA Conformation on Ribosomal RNA Synthesis in vitro. Nature: New Biology, 1973, 243, 161-163.	4.5	54