Agamemnon J Carpousis

List of Publications by Year
in descending order

48	4,768	101543	206112
papers	citations	36 h-index	48 g-index

52	52	52	2301
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The association between Hfq and RNase E in longâ€term nitrogenâ€starved Escherichia coli. Molecular Microbiology, 2022, 117, 54-66.	2.5	14
2	Ribosomal RNA degradation induced by the bacterial RNA polymerase inhibitor rifampicin. Rna, 2021, 27, 946-958.	3.5	16
3	Polyribosome-Dependent Clustering of Membrane-Anchored RNA Degradosomes To Form Sites of mRNA Degradation in Escherichia coli. MBio, 2021, 12, e0193221.	4.1	8
4	Detachment of the RNA degradosome from the inner membrane of Escherichia coli results in a global slowdown of mRNA degradation, proteolysis of RNase E and increased turnover of ribosomeâ€free transcripts. Molecular Microbiology, 2019, 111, 1715-1731.	2.5	34
5	Large-Scale Measurement of mRNA Degradation in Escherichia coli: To Delay or Not to Delay. Methods in Enzymology, 2018, 612, 47-66.	1.0	7
6	The Csr system regulates genome-wide mRNA stability and transcription and thus gene expression in Escherichia coli. Scientific Reports, 2016, 6, 25057.	3.3	42
7	<scp>RNA</scp> degradosomes in bacteria and chloroplasts: classification, distribution and evolution of <scp>RN</scp>ase <scp>E</scp> homologs. Molecular Microbiology, 2015, 97, 1021-1135.	2.5	112
8	Membrane Recognition and Dynamics of the RNA Degradosome. PLoS Genetics, 2015, 11, e1004961.	3.5	93
9	RNase E in the Î³-Proteobacteria: conservation of intrinsically disordered noncatalytic region and molecular evolution of microdomains. Molecular Genetics and Genomics, 2015, 290, 847-862.	2.1	43
10	Dual role of transcription and transcript stability in the regulation of gene expression in Escherichia coli cells cultured on glucose at different growth rates. Nucleic Acids Research, 2014, 42, 2460-2472.	14.5	71
11	The social fabric of the RNA degradosome. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2013, 1829, 514-522.	1.9	76
12	Emergence of the Î²-CASP ribonucleases: Highly conserved and ubiquitous metallo-enzymes involved in messenger RNA maturation and degradation. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2013, 1829, 532-551.	1.9	48
13	Archaeal Î²-CASP ribonucleases of the aCPSF1 family are orthologs of the eukaryal CPSF-73 factor. Nucleic Acids Research, 2013, 41, 1091-1103.	14.5	42
14	From conformational chaos to robust regulation: the structure and function of the multi-enzyme RNA degradosome. Quarterly Reviews of Biophysics, 2012, 45, 105-145.	5.7	71
15	A tale of two mRNA degradation pathways mediated by RNase E. Molecular Microbiology, 2011, 82, 1305-1310.	2.5	44
16	Identification of CRISPR and riboswitch related RNAs among novel noncoding RNAs of the euryarchaeon Pyrococcus abyssi. BMC Genomics, 2011, 12, 312.	2.8	30
17	Euryarchaeal Î²-CASP Proteins with Homology to Bacterial RNase J Have 5â€²- to 3â€²-Exoribonuclease Activity. Journal of Biological Chemistry, 2010, 285, 17574-17583.	3.4	45
18	Characterization of the RNA Degradosome ofPseudoalteromonas haloplanktis: Conservation of the RNase E-RhlB Interaction in the Gammaproteobacteria. Journal of Bacteriology, 2010, 192, 5413-5423.	2.2	34

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19	Chapter 3 Endonucleolytic Initiation of mRNA Decay in Escherichia coli. Progress in Molecular Biology and Translational Science, 2009, 85, 91-135.	1.7	137
20	The RNase E of Escherichia coli is a membraneâ€binding protein. Molecular Microbiology, 2008, 70, 799-813.	2.5	180
21	Chapter 10 Assaying DEADâ€box RNA Helicases and Their Role in mRNA Degradation in Escherichia coli. Methods in Enzymology, 2008, 447, 183-197.	1.0	5
22	Chapter 4 Coâ€immunopurification of Multiprotein Complexes Containing RNAâ€Degrading Enzymes. Methods in Enzymology, 2008, 447, 65-82.	1.0	13
23	Recognition and Cooperation Between the ATP-dependent RNA Helicase RhlB and Ribonuclease RNase E. Journal of Molecular Biology, 2007, 367, 113-132.	4.2	66
24	The RNA Degradosome of Escherichia coli: An mRNA-Degrading Machine Assembled on RNase E. Annual Review of Microbiology, 2007, 61, 71-87.	7.3	398
25	The RNA degradosome: life in the fast lane of adaptive molecular evolution. Trends in Biochemical Sciences, 2006, 31, 359-365.	7.5	104
26	mRNA Decay and RNA-Degrading Machines in Prokaryotes and Eukaryotes. , 2006, , 185-206.		0
27	Evidencein vivothat the DEAD-box RNA helicase RhlB facilitates the degradation of ribosome-free mRNA by RNase E. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6913-6918.	7.1	65
28	The K-loop, a general feature of the Pyrococcus C/D guide RNAs, is an RNA structural motif related to the K-turn. Nucleic Acids Research, 2005, 33, 6507-6514.	14.5	74
29	The RNase E of Escherichia coli has at least two binding sites for DEAD-box RNA helicases: functional replacement of RhlB by RhlE. Molecular Microbiology, 2004, 54, 1422-1430.	2.5	105
30	The RNA degradosome and poly(A) polymerase of Escherichia coli are required in vivo for the degradation of small mRNA decay intermediates containing REP-stabilizers. Molecular Microbiology, 2003, 51, 777-790.	2.5	137
31	Degradation of targeted mRNAs in Escherichia coli: regulation by a small antisense RNA. Genes and Development, 2003, 17, 2351-2355.	5.9	21
32	Running rings around RNA: a superfamily of phosphate-dependent RNases. Trends in Biochemical Sciences, 2002, 27, 11-18.	7.5	145
33	Function in Escherichia coli of the non-catalytic part of RNase E: role in the degradation of ribosome-free mRNA. Molecular Microbiology, 2002, 45, 1231-1243.	2.5	95
34	RNase II levels change according to the growth conditions: characterization of gmr, a new Escherichia coli gene involved in the modulation of RNase II. Molecular Microbiology, 2001, 39, 1550-1561.	2.5	51
35	Escherichia coli RNA Degradosome. Methods in Enzymology, 2001, 342, 333-345.	1.0	23
36	Polyadenylation Promotes Degradation of 3â€²-Structured RNA by theEscherichia coli mRNA Degradosome in Vitro. Journal of Biological Chemistry, 1999, 274, 4009-4016.	3.4	97

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37	Poly(A) polymerase I of Escherichia coli: characterization of the catalytic domain, an RNA binding site and regions for the interaction with proteins involved in mRNA degradation. Molecular Microbiology, 1999, 32, 765-775.	2.5	87
38	mRNA degradation: a tale of poly(A) and multiprotein machines. Trends in Genetics, 1999, 15, 24-28.	6.7	210
39	The Bacillus subtilis Nucleotidyltransferase Is a tRNA CCA-Adding Enzyme. Journal of Bacteriology, 1998, 180, 6276-6282.	2.2	45
40	Polyphosphate kinase is a component of the Escherichia coli RNA degradosome. Molecular Microbiology, 1997, 26, 387-398.	2.5	125
41	A DEAD-box RNA helicase in the Escherichia coli RNA degradosome. Nature, 1996, 381, 169-172.	27.8	546
42	Copurification of E. coli RNAase E and PNPase: Evidence for a specific association between two enzymes important in RNA processing and degradation. Cell, 1994, 76, 889-900.	28.9	434
43	Nucleolytic Inactivation and Degradation of the RNase III Processed pnp Message Encoding Polynucleotide Phosphorylase of Escherichia coli. Journal of Molecular Biology, 1994, 239, 439-454.	4.2	55
44	Transcription and messenger RNA processing upstream of bacteriophage T4 gene 32. Molecular Genetics and Genomics, 1989, 219, 39-48.	2.4	45
45	Interaction of RNA polymerase with lacUV5 promoter DNA during mRNA initiation and elongation. Journal of Molecular Biology, 1985, 183, 165-177.	4.2	214
46	5â€² Nucleotide heterogeneity and altered initiation of transcription at mutant lac promoters. Journal of Molecular Biology, 1982, 157, 619-633.	4.2	83
47	Productive and abortive initiation of transcription in vitro at the lac UV5 promoter. Biochemistry, 1980, 19, 5864-5869.	2.5	72
48	Cycling of ribonucleic acid polymerase to produce oligonucleotides during initiation in vitro at the lac UV5 promoter. Biochemistry, 1980, 19, 3245-3253.	2.5	299