Jeffrey W Roberts

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/10857541/jeffrey-w-roberts-publications-by-year.pdf
Version: 2024-04-23

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46 papers	3,923 citations	26 h-index	47 g-index
47 ext. papers	4,275 ext. citations	22.2 avg, IF	5.43 L-index

#	Paper	IF	Citations
46	Mechanisms of Bacterial Transcription Termination. *Journal of Molecular Biology*, **2019**, 431, 4030-4039	6.5	46
45	Transcription factor regulation of RNA polymerase's torque generation capacity. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 2583-2588	11.5	22
44	Mfd Dynamically Regulates Transcription via a Release and Catch-Up Mechanism. *Cell*, **2018**, 172, 344-357e15	36.2	35
43	A universal transcription pause sequence is an element of initiation factor [illegible]70-dependent pausing. *Nucleic Acids Research*, **2016**, 44, 6732-40	20.1	7
42	Two transcription pause elements underlie a [illegible]70-dependent pause cycle. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E4374-80	11.5	23
41	Molecular biology. Molecular basis of transcription pausing. *Science*, **2014**, 344, 1226-7	33.3	1
40	Regulation of promoter-proximal transcription elongation: enhanced DNA scrunching drives [illegible]Q antiterminator-dependent escape from a [illegible]70-dependent pause. *Nucleic Acids Research*, **2014**, 42, 5097-108	20.1	17
39	[illegible](70)-dependent transcription pausing in Escherichia coli. *Journal of Molecular Biology*, **2011**, 412, 782-92	6.5	46
38	A backtrack-inducing sequence is an essential component of Escherichia coli [illegible](70)-dependent promoter-proximal pausing. *Molecular Microbiology*, **2010**, 78, 636-50	4.1	26
37	Molecular biology. Syntheses that stay together. *Science*, **2010**, 328, 436-7	33.3	11
36	Promoter-specific control of E. coli RNA polymerase by ppGpp and a general transcription factor. *Genes and Development*, **2009**, 23, 143-6	12.6	11
35	RNA polymerase elongation factors. *Annual Review of Microbiology*, **2008**, 62, 211-33	17.5	88
34	A transcription antiterminator constructs a NusA-dependent shield to the emerging transcript. *Molecular Cell*, **2007**, 27, 914-27	17.6	53
33	Role of DNA bubble rewinding in enzymatic transcription termination. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 4870-5	11.5	85
32	Biochemistry. RNA polymerase, a scrunching machine. *Science*, **2006**, 314, 1097-8	33.3	17
31	RNA-mediated destabilization of the sigma(70) region 4/beta flap interaction facilitates engagement of RNA polymerase by the Q antiterminator. *Molecular Cell*, **2006**, 24, 457-68	17.6	25
30	DNA binding regions of Q proteins of phages lambda and phi80. *Journal of Bacteriology*, **2004**, 186, 3599-608	3.5	13

29	A single-molecule technique to study sequence-dependent transcription pausing. *Biophysical Journal*, **2004**, 87, 3945-53	2.9	47
28	Forward translocation is the natural pathway of RNA release at an intrinsic terminator. *Molecular Cell*, **2004**, 14, 117-26	17.6	90
27	Transcription Termination **2004**, 195-199		
26	Role of the non-template strand of the elongation bubble in intrinsic transcription termination. *Journal of Molecular Biology*, **2003**, 334, 205-13	6.5	20
25	RNA polymerase mutations that impair conversion to a termination-resistant complex by Q antiterminator proteins. *Genes and Development*, **2003**, 17, 1281-92	12.6	26
24	Single molecule analysis of RNA polymerase elongation reveals uniform kinetic behavior. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 13538-43	11.5	145
23	E. coli Transcription repair coupling factor (Mfd protein) rescues arrested complexes by promoting forward translocation. *Cell*, **2002**, 109, 757-67	56.2	246
22	The sigma(70) subunit of RNA polymerase is contacted by the (lambda)Q antiterminator during early elongation. *Molecular Cell*, **2002**, 10, 611-22	17.6	53
21	Function of transcription cleavage factors GreA and GreB at a regulatory pause site. *Molecular Cell*, **2000**, 6, 1275-85	17.6	117
20	Domain organization of the Escherichia coli RNA polymerase sigma 70 subunit. *Journal of Molecular Biology*, **1996**, 263, 637-47	6.5	130
19	Function of E. coli RNA polymerase sigma factor sigma 70 in promoter-proximal pausing. *Cell*, **1996**, 86, 485-93	56.2	182
18	Base-specific recognition of the nontemplate strand of promoter DNA by E. coli RNA polymerase. *Cell*, **1996**, 86, 495-501	56.2	128
17	Transcription Termination and Its Control **1996**, 27-45		13
16	Function of a nontranscribed DNA strand site in transcription elongation. *Cell*, **1994**, 78, 317-24	56.2	64
15	Transcription termination. *Critical Reviews in Biochemistry and Molecular Biology*, **1993**, 28, 1-30	8.7	79
14	The phage lambda gene Q transcription antiterminator binds DNA in the late gene promoter as it modifies RNA polymerase. *Cell*, **1992**, 69, 1181-9	56.2	81
13	Nature of the SOS-inducing signal in Escherichia coli. The involvement of DNA replication. *Journal of Molecular Biology*, **1990**, 212, 79-96	6.5	446
12	Specificity and mechanism of antitermination by Q proteins of bacteriophages lambda and 82. *Journal of Molecular Biology*, **1989**, 210, 453-60	6.5	32

11	Sequences required for antitermination by phage 82 Q protein. *Journal of Molecular Biology*, **1989**, 210, 461-71	6.5	19
10	A potential stem-loop structure and the sequence CAAUCAA in the transcript are insufficient to signal rho-dependent transcription termination at lambda tR1. *Nucleic Acids Research*, **1984**, 12, 1287-99	20.1	14
9	A brief consideration of the SOS inducing signal. *Biochimie*, **1982**, 64, 805-7	4.6	23
8	Induction of SOS functions: regulation of proteolytic activity of E. coli RecA protein by interaction with DNA and nucleoside triphosphate. *Cell*, **1981**, 25, 259-67	56.2	170
7	Two mutations that alter the regulatory activity of E. coli recA protein. *Nature*, **1981**, 290, 422-4	50.4	75
6	E. coli recA protein-directed cleavage of phage lambda repressor requires polynucleotide. *Nature*, **1980**, 283, 26-30	50.4	332
5	Kinetics of RecA protein-directed inactivation of repressors of phage lambda and phage P22. *Journal of Molecular Biology*, **1980**, 139, 319-28	6.5	88
4	Assay and characterization of late gene regulators of bacteriophages lambda82 and phi. *Journal of Molecular Biology*, **1980**, 142, 269-88	6.5	8
3	Genetics and structure of the late gene regulatory region of phage 82. *Virology*, **1980**, 105, 393-404	3.6	13
2	Promoter mutation in vitro. *Nature*, **1969**, 223, 480-2	50.4	38
1	Termination factor for RNA synthesis. *Nature*, **1969**, 224, 1168-74	50.4	718