

Nicholas Jarvis Proudfoot

List of Publications by Year in descending order

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148
papers

20,714
citations

9775

73
h-index

10441

139
g-index

157
all docs

157
docs citations

157
times ranked

15352
citing authors

#	ARTICLE	IF	CITATIONS
1	The structure and evolution of the human β^2 -globin gene family. <i>Cell</i> , 1980, 21, 653-668.	13.5	1,565
2	Integrating mRNA Processing with Transcription. <i>Cell</i> , 2002, 108, 501-512.	13.5	927
3	Pre-mRNA Processing Reaches Back to Transcription and Ahead to Translation. <i>Cell</i> , 2009, 136, 688-700.	13.5	754
4	Human Senataxin Resolves RNA/DNA Hybrids Formed at Transcriptional Pause Sites to Promote Xrn2-Dependent Termination. <i>Molecular Cell</i> , 2011, 42, 794-805.	4.5	632
5	Ending the message: poly(A) signals then and now. <i>Genes and Development</i> , 2011, 25, 1770-1782.	2.7	490
6	Mammalian NET-Seq Reveals Genome-wide Nascent Transcription Coupled to RNA Processing. <i>Cell</i> , 2015, 161, 526-540.	13.5	466
7	Poly(A) signals. <i>Cell</i> , 1991, 64, 671-674.	13.5	459
8	A double-edged sword: R loops as threats to genome integrity and powerful regulators of gene expression. <i>Genes and Development</i> , 2014, 28, 1384-1396.	2.7	432
9	β^0 -Thalassaemia caused by a polyadenylation signal mutation. <i>Nature</i> , 1983, 306, 398-400.	13.7	403
10	Mitochondrial double-stranded RNA triggers antiviral signalling in humans. <i>Nature</i> , 2018, 560, 238-242.	13.7	397
11	Human 5' cap 3' exonuclease Xrn2 promotes transcription termination at co-transcriptional cleavage sites. <i>Nature</i> , 2004, 432, 522-525.	13.7	396
12	A single-base change at a splice site in a β^0 -thalassemic gene causes abnormal RNA splicing. <i>Cell</i> , 1982, 29, 903-911.	13.5	375
13	BRCA1 Recruitment to Transcriptional Pause Sites Is Required for R-Loop-Driven DNA Damage Repair. <i>Molecular Cell</i> , 2015, 57, 636-647.	4.5	363
14	Jmjd6 Catalyses Lysyl-Hydroxylation of U2AF65, a Protein Associated with RNA Splicing. <i>Science</i> , 2009, 325, 90-93.	6.0	356
15	Transcriptional termination in mammals: Stopping the RNA polymerase II juggernaut. <i>Science</i> , 2016, 352, aad9926.	6.0	341
16	Primary microRNA transcripts are processed co-transcriptionally. <i>Nature Structural and Molecular Biology</i> , 2008, 15, 902-909.	3.6	335
17	The structure of the human zeta-globin gene and a closely linked, nearly identical pseudogene. <i>Cell</i> , 1982, 31, 553-563.	13.5	331
18	R-Loop Stabilization Represses Antisense Transcription at the <i>Arabidopsis FLC</i> Locus. <i>Science</i> , 2013, 340, 619-621.	6.0	326

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19	Gene loops juxtapose promoters and terminators in yeast. <i>Nature Genetics</i> , 2004, 36, 1014-1018.	9.4	321
20	Yeast Sen1 Helicase Protects the Genome from Transcription-Associated Instability. <i>Molecular Cell</i> , 2011, 41, 21-32.	4.5	301
21	R-loops induce repressive chromatin marks over mammalian gene terminators. <i>Nature</i> , 2014, 516, 436-439.	13.7	299
22	A sequence downstream of AAUAAA is required for rabbit β -globin mRNA 3' end formation. <i>Nature</i> , 1984, 312, 473-474.	13.7	291
23	How RNA polymerase II terminates transcription in higher eukaryotes. <i>Trends in Biochemical Sciences</i> , 1989, 14, 105-110.	3.7	284
24	The structure of a human β -globin pseudogene and its relationship to β -globin gene duplication. <i>Cell</i> , 1980, 21, 537-544.	13.5	279
25	New perspectives on connecting messenger RNA 3' end formation to transcription. <i>Current Opinion in Cell Biology</i> , 2004, 16, 272-278.	2.6	261
26	Gene loops function to maintain transcriptional memory through interaction with the nuclear pore complex. <i>Genes and Development</i> , 2009, 23, 2610-2624.	2.7	252
27	Structure and in vitro transcription of human globin genes. <i>Science</i> , 1980, 209, 1329-1336.	6.0	247
28	Position-dependent sequence elements downstream of AAUAAA are required for efficient rabbit β -globin mRNA 3' end formation. <i>Cell</i> , 1987, 49, 399-406.	13.5	241
29	Coupling Termination of Transcription to Messenger RNA Maturation in Yeast. <i>Science</i> , 1998, 280, 298-301.	6.0	236
30	Promoter proximal splice sites enhance transcription. <i>Genes and Development</i> , 2002, 16, 2792-2799.	2.7	234
31	Transcriptional collision between convergent genes in budding yeast. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 8796-8801.	3.3	231
32	Distinctive Patterns of Transcription and RNA Processing for Human lincRNAs. <i>Molecular Cell</i> , 2017, 65, 25-38.	4.5	222
33	Gene Loops Enhance Transcriptional Directionality. <i>Science</i> , 2012, 338, 671-675.	6.0	219
34	Cohesin Complex Promotes Transcriptional Termination between Convergent Genes in <i>S. pombe</i> . <i>Cell</i> , 2008, 132, 983-995.	13.5	186
35	Isw1 Chromatin Remodeling ATPase Coordinates Transcription Elongation and Termination by RNA Polymerase II. <i>Cell</i> , 2003, 115, 425-435.	13.5	160
36	U1 snRNA associates with TFIIF and regulates transcriptional initiation. <i>Nature Structural Biology</i> , 2002, 9, 800-5.	9.7	158

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37	Autoregulation of TDP-43 mRNA levels involves interplay between transcription, splicing, and alternative polyA site selection. <i>Genes and Development</i> , 2012, 26, 1679-1684.	2.7	157
38	Connecting transcription to messenger RNA processing. <i>Trends in Biochemical Sciences</i> , 2000, 25, 290-293.	3.7	155
39	Polypyrimidine Tract Binding Protein Modulates Efficiency of Polyadenylation. <i>Molecular and Cellular Biology</i> , 2004, 24, 4174-4183.	1.1	155
40	Pause Sites Promote Transcriptional Termination of Mammalian RNA Polymerase II. <i>Molecular and Cellular Biology</i> , 2006, 26, 3986-3996.	1.1	151
41	Mechanisms of lncRNA biogenesis as revealed by nascent transcriptomics. <i>Nature Reviews Molecular Cell Biology</i> , 2022, 23, 389-406.	16.1	151
42	Terminal Exon Definition Occurs Cotranscriptionally and Promotes Termination of RNA Polymerase II. <i>Molecular Cell</i> , 1999, 3, 371-378.	4.5	146
43	Deregulated Expression of Mammalian lncRNA through Loss of SPT6 Induces R-Loop Formation, Replication Stress, and Cellular Senescence. <i>Molecular Cell</i> , 2018, 72, 970-984.e7.	4.5	140
44	A Role for Chromatin Remodeling in Transcriptional Termination by RNA Polymerase II. <i>Molecular Cell</i> , 2002, 10, 1441-1452.	4.5	137
45	RNA Helicase DDX1 Converts RNA G-Quadruplex Structures into R-Loops to Promote IgH Class Switch Recombination. <i>Molecular Cell</i> , 2018, 70, 650-662.e8.	4.5	133
46	Sequence analysis of immunoglobulin light chain messenger RNA. <i>Nature</i> , 1974, 252, 354-359.	13.7	129
47	Dynamic interactions between the promoter and terminator regions of the mammalian <i>BRCA1</i> gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 5160-5165.	3.3	127
48	RNA polymerase II kinetics in <i>polo</i> polyadenylation signal selection. <i>EMBO Journal</i> , 2011, 30, 2431-2444.	3.5	124
49	RNA Polymerase II Phosphorylated on CTD Serine 5 Interacts with the Spliceosome during Co-transcriptional Splicing. <i>Molecular Cell</i> , 2018, 72, 369-379.e4.	4.5	123
50	Exon Tethering in Transcription by RNA Polymerase II. <i>Molecular Cell</i> , 2006, 21, 849-859.	4.5	122
51	Budding yeast RNA polymerases I and II employ parallel mechanisms of transcriptional termination. <i>Genes and Development</i> , 2008, 22, 1082-1092.	2.7	120
52	Microprocessor mediates transcriptional termination of long noncoding RNA transcripts hosting microRNAs. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 319-327.	3.6	120
53	Specific Transcriptional Pausing Activates Polyadenylation in a Coupled In Vitro System. <i>Molecular Cell</i> , 1999, 3, 593-600.	4.5	118
54	Disengaging polymerase: Terminating RNA polymerase II transcription in budding yeast. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2013, 1829, 174-185.	0.9	118

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55	R-Loops Promote Antisense Transcription across the Mammalian Genome. <i>Molecular Cell</i> , 2019, 76, 600-616.e6.	4.5	112
56	Transcriptional Control by Premature Termination: A Forgotten Mechanism. <i>Trends in Genetics</i> , 2019, 35, 553-564.	2.9	112
57	Complete 3' noncoding region sequences of rabbit and human β -globin messenger RNAs. <i>Cell</i> , 1977, 10, 559-570.	13.5	105
58	The HIV-1 5' LTR poly(A) site is inactivated by U1 snRNP interaction with the downstream major splice donor site. <i>EMBO Journal</i> , 1997, 16, 5752-5763.	3.5	105
59	Transcriptional interference perturbs the binding of Sp1 to the HIV-1 promoter. <i>Nucleic Acids Research</i> , 1998, 26, 1294-1301.	6.5	104
60	Autocatalytic RNA cleavage in the human β -globin pre-mRNA promotes transcription termination. <i>Nature</i> , 2004, 432, 526-530.	13.7	103
61	Coupled RNA Processing and Transcription of Intergenic Primary MicroRNAs. <i>Molecular and Cellular Biology</i> , 2009, 29, 5632-5638.	1.1	101
62	Multiple Transcript Cleavage Precedes Polymerase Release in Termination by RNA Polymerase II. <i>Cell</i> , 2001, 105, 669-681.	13.5	99
63	Polyadenylation: A tail of two complexes. <i>Current Biology</i> , 2002, 12, R855-R857.	1.8	96
64	Transcription-Dependent Gene Looping of the HIV-1 Provirus Is Dictated by Recognition of Pre-mRNA Processing Signals. <i>Molecular Cell</i> , 2008, 29, 56-68.	4.5	96
65	Fail-Safe Transcriptional Termination for Protein-Coding Genes in <i>S. cerevisiae</i> . <i>Molecular Cell</i> , 2009, 36, 88-98.	4.5	96
66	Human nuclear Dicer restricts the deleterious accumulation of endogenous double-stranded RNA. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 552-559.	3.6	95
67	Selective Roles of Vertebrate PCF11 in Premature and Full-Length Transcript Termination. <i>Molecular Cell</i> , 2019, 74, 158-172.e9.	4.5	95
68	Poly(A) signals control both transcriptional termination and initiation between the tandem GAL10 and GAL7 genes of <i>Saccharomyces cerevisiae</i> . <i>EMBO Journal</i> , 1998, 17, 4771-4779.	3.5	94
69	Adenylation and Exosome-Mediated Degradation of Cotranscriptionally Cleaved Pre-Messenger RNA in Human Cells. <i>Molecular Cell</i> , 2006, 21, 437-443.	4.5	92
70	Mammalian NET-seq analysis defines nascent RNA profiles and associated RNA processing genome-wide. <i>Nature Protocols</i> , 2016, 11, 413-428.	5.5	86
71	SCAF4 and SCAF8, mRNA Anti-Terminator Proteins. <i>Cell</i> , 2019, 177, 1797-1813.e18.	13.5	85
72	Ending the Message Is Not So Simple. <i>Cell</i> , 1996, 87, 779-781.	13.5	84

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73	Intergenic Transcription in the Human $\hat{\nu}$ -Globin Gene Cluster. <i>Molecular and Cellular Biology</i> , 2001, 21, 6507-6514.	1.1	84
74	A beginning to the biochemistry of polyadenylation. <i>Trends in Genetics</i> , 1988, 4, 243-245.	2.9	83
75	Transcriptional termination signals for RNA polymerase II in fission yeast. <i>EMBO Journal</i> , 1997, 16, 3633-3643.	3.5	83
76	Influenza Virus Mounts a Two-Pronged Attack on Host RNA Polymerase II Transcription. <i>Cell Reports</i> , 2018, 23, 2119-2129.e3.	2.9	81
77	Râ€loop formation during S phase is restricted by PrimPolâ€mediated repriming. <i>EMBO Journal</i> , 2019, 38, .	3.5	77
78	Balancing transcriptional interference and initiation on the GAL7 promoter of <i>Saccharomyces cerevisiae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 8415-8420.	3.3	72
79	Transcriptional termination by RNA polymerase I requires the small subunit Rpa12p. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 6068-6073.	3.3	72
80	RNA polymerase I in yeast transcribes dynamic nucleosomal rDNA. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 123-130.	3.6	72
81	EM Visualization of Transcription by RNA Polymerase II. <i>Molecular Cell</i> , 1999, 3, 379-387.	4.5	71
82	Transcriptional termination and coupled polyadenylation in vitro. <i>EMBO Journal</i> , 2000, 19, 3770-3777.	3.5	71
83	Dicer-Dependent Turnover of Intergenic Transcripts from the Human $\hat{\nu}$ -Globin Gene Cluster. <i>Molecular and Cellular Biology</i> , 2005, 25, 9724-9733.	1.1	69
84	Pcf11 orchestrates transcription termination pathways in yeast. <i>Genes and Development</i> , 2015, 29, 849-861.	2.7	66
85	Transcriptional Termination Enhances Protein Expression in Human Cells. <i>Molecular Cell</i> , 2009, 33, 354-364.	4.5	63
86	The end of the message. <i>Nature</i> , 1982, 298, 516-517.	13.7	62
87	Regulation of Elongating RNA Polymerase II by Forkhead Transcription Factors in Yeast. <i>Science</i> , 2003, 300, 492-495.	6.0	62
88	The 3' terminal sequences of human α ; and β ; globin messenger RNAs: Comparison with rabbit globin messenger RNA. <i>Cell</i> , 1976, 9, 733-746.	13.5	61
89	Drosha Regulates Gene Expression Independently of RNA Cleavage Function. <i>Cell Reports</i> , 2013, 5, 1499-1510.	2.9	60
90	Molecular Dissection of Mammalian RNA Polymerase II Transcriptional Termination. <i>Molecular Cell</i> , 2008, 29, 600-610.	4.5	59

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91	Transcription of the human U2 snRNA genes continues beyond the 3' box in vivo. <i>EMBO Journal</i> , 1999, 18, 2867-2877.	3.5	58
92	Nucleotide sequence of the 3' terminal third of rabbit $\hat{1}$ -globin messenger RNA: Comparison with human $\hat{1}$ -globin messenger RNA. <i>Cell</i> , 1977, 11, 807-818.	13.5	56
93	Stem-loop 1 of the U1 snRNP plays a critical role in the suppression of HIV-1 polyadenylation. <i>Rna</i> , 2000, 6, 170-177.	1.6	56
94	Transcriptional Termination Factors for RNA Polymerase II in Yeast. <i>Molecular Cell</i> , 2001, 7, 1003-1011.	4.5	56
95	Definition of Transcriptional Promoters in the Human $\hat{2}$ Globin Locus Control Region. <i>Journal of Molecular Biology</i> , 2002, 323, 601-611.	2.0	53
96	A factor binding GATAAG confers tissue specificity on the promoter of the human $\hat{1}$ -globin gene. <i>Nucleic Acids Research</i> , 1990, 18, 1339-1350.	6.5	52
97	Convergent transcription induces transcriptional gene silencing in fission yeast and mammalian cells. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 1193-1201.	3.6	52
98	POINT technology illuminates the processing of polymerase-associated intact nascent transcripts. <i>Molecular Cell</i> , 2021, 81, 1935-1950.e6.	4.5	52
99	Human Pcf11 enhances degradation of RNA polymerase II-associated nascent RNA and transcriptional termination. <i>Nucleic Acids Research</i> , 2007, 36, 905-914.	6.5	50
100	Sequence analysis of the 3' non-coding regions of rabbit $\hat{1}$ - and $\hat{2}$ -globin messenger RNAs. <i>Journal of Molecular Biology</i> , 1976, 107, 491-525.	2.0	48
101	Characterization of $\hat{2}$ -globin mRNA in the $\hat{2}^0$ thalassemias. <i>Cell</i> , 1978, 14, 289-298.	13.5	45
102	Terminate and make a loop: regulation of transcriptional directionality. <i>Trends in Biochemical Sciences</i> , 2014, 39, 319-327.	3.7	45
103	Expression of the early lymphocyte activation antigen CD69, a C-type lectin, is regulated by mRNA degradation associated with AU-rich sequence motifs. <i>European Journal of Immunology</i> , 1995, 25, 2142-2146.	1.6	43
104	Recruitment of a Basal Polyadenylation Factor by the Upstream Sequence Element of the Human Lamin B2 Polyadenylation Signal. <i>Molecular and Cellular Biology</i> , 2000, 20, 2660-2669.	1.1	40
105	The gene for $\hat{1}$ -globin is transcribed in human fetal erythroid tissues. <i>Nature</i> , 1987, 329, 551-554.	13.7	39
106	The Retroviruses Human Immunodeficiency Virus Type 1 and Moloney Murine Leukemia Virus Adopt Radically Different Strategies To Regulate Promoter-Proximal Polyadenylation. <i>Journal of Virology</i> , 2001, 75, 11735-11746.	1.5	39
107	Genome-wide analysis of poly(A) site selection in <i>Schizosaccharomyces pombe</i> . <i>Rna</i> , 2013, 19, 1617-1631.	1.6	37
108	Transcription and polyadenylation in a short human intergenic region. <i>Nucleic Acids Research</i> , 1997, 25, 2326-2335.	6.5	36

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109	Nascent transcription from the nmt1 and nmt2 genes of Schizosaccharomyces pombe overlaps neighbouring genes. EMBO Journal, 1998, 17, 3066-3077.	3.5	32
110	Definition of Transcriptional Pause Elements in Fission Yeast. Molecular and Cellular Biology, 1999, 19, 1251-1261.	1.1	31
111	Strong Polyadenylation and Weak Pausing Combine To Cause Efficient Termination of Transcription in the Human G β -Globin Gene. Molecular and Cellular Biology, 2005, 25, 3276-3285.	1.1	31
112	Role of the RNA/DNA kinase Grc3 in transcription termination by RNA polymerase I. EMBO Reports, 2010, 11, 758-764.	2.0	31
113	Sp1 functions in a chromatin-dependent manner to augment human alpha-globin promoter activity.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 7237-7241.	3.3	30
114	Definition of RNA Polymerase II CoTC Terminator Elements in the Human Genome. Cell Reports, 2013, 3, 1080-1092.	2.9	28
115	Counteracting chromatin effects of a splicing-correcting antisense oligonucleotide improves its therapeutic efficacy in spinal muscular atrophy. Cell, 2022, 185, 2057-2070.e15.	13.5	28
116	Autoregulation of convergent RNAi genes in fission yeast. Genes and Development, 2011, 25, 556-568.	2.7	27
117	Enhancers predominantly regulate gene expression during differentiation via transcription initiation. Molecular Cell, 2021, 81, 983-997.e7.	4.5	27
118	Nucleotide sequence adjacent to polyadenylic acid in globin messenger RNA. FEBS Letters, 1974, 38, 179-183.	1.3	26
119	Nuclear fate of yeast snoRNA is determined by co-transcriptional Rnt1 cleavage. Nature Communications, 2018, 9, 1783.	5.8	24
120	Dawdling polymerases allow introns time to splice. Nature Structural and Molecular Biology, 2003, 10, 876-878.	3.6	22
121	Modulating alternative splicing by cotranscriptional cleavage of nascent intronic RNA. Rna, 2007, 14, 359-366.	1.6	20
122	Co-transcriptional RNA cleavage provides a failsafe termination mechanism for yeast RNA polymerase I. Nucleic Acids Research, 2011, 39, 1439-1448.	6.5	20
123	Transcriptional termination sequences in the mouse serum albumin gene. Rna, 2006, 12, 655-665.	1.6	18
124	Terminating transcription in yeast: whether to be a 'nerd' or a 'rat'. Nature Structural and Molecular Biology, 2008, 15, 775-776.	3.6	18
125	Dual RNA 3' end processing of H2A.X messenger RNA maintains DNA damage repair throughout the cell cycle. Nature Communications, 2021, 12, 359.	5.8	17
126	AT-rich sequence elements promote nascent transcript cleavage leading to RNA polymerase II termination. Nucleic Acids Research, 2013, 41, 1797-1806.	6.5	16

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127	The primary transcription unit of the human (eqn)a2 globin gene defined by quantitative RT/PCR. Nucleic Acids Research, 1992, 20, 851-858.	6.5	15
128	WNK1 kinase and the termination factor PCF11 connect nuclear mRNA export with transcription. Genes and Development, 2017, 31, 2175-2185.	2.7	15
129	Biosynthesis of histone messenger RNA employs a specific 3' end endonuclease. ELife, 2018, 7, .	2.8	14
130	Activation Domains of Transcription Factors Mediate Replication Dependent Transcription from a Minimal HIV-1 Promoter. Nucleic Acids Research, 1996, 24, 549-557.	6.5	13
131	Transcription termination between polo and snap, two closely spaced tandem genes of D. melanogaster. Transcription, 2012, 3, 198-212.	1.7	13
132	Molecular biology: Globin gene monkey business. Nature, 1986, 321, 730-731.	13.7	11
133	Homologous gene sequences mediate transcription-domain formation. Journal of Cell Science, 2006, 119, 3876-3887.	1.2	10
134	Genetic dangers in poly(A) signals. EMBO Reports, 2001, 2, 891-892.	2.0	8
135	Proximal promoter elements of the human zeta-globin gene confer embryonic-specific expression on a linked reporter gene in transgenic mice. Nucleic Acids Research, 1996, 24, 4158-4164.	6.5	7
136	Feed backwards model for microRNA processing and splicing in plants. EMBO Reports, 2013, 14, 581-582.	2.0	7
137	Transcriptional Activation of the General Amino Acid Permease Gene per1 by the Histone Deacetylase Clr6 Is Regulated by Oca2 Kinase. Molecular and Cellular Biology, 2010, 30, 3396-3410.	1.1	6
138	Gene Silencing CUTs Both Ways. Cell, 2007, 131, 649-651.	13.5	5
139	Nuclear Roadblocks for mRNA Export. Cell, 2008, 135, 207-208.	13.5	5
140	Post-Transcriptional Regulation: Chasing your own poly(A) tail. Current Biology, 1994, 4, 359-361.	1.8	4
141	An Ungracious Host for an Unwelcome Guest. Cell Host and Microbe, 2008, 4, 89-91.	5.1	4
142	The SF3B1 K700E Mutation Induces R-Loop Accumulation and Associated DNA Damage. Blood, 2019, 134, 4219-4219.	0.6	4
143	Turnover and Function of Noncoding RNA Polymerase II Transcripts. Cold Spring Harbor Symposia on Quantitative Biology, 2006, 71, 275-284.	2.0	3
144	Histone 3 S10 Phosphorylation: "Caught in the R Loop!" Molecular Cell, 2013, 52, 470-472.	4.5	3

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145	The sequence is not enough. Nature, 1977, 265, 499-500.	13.7	1
146	Silencing in trans : position matters in fission yeast. EMBO Reports, 2010, 11, 145-146.	2.0	1
147	Rad51, friend or foe?. ELife, 2013, 2, e00914.	2.8	1
148	Transcription Termination. , 2004, , 369-380.		0