

Lior S Pachter

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

194 papers	66,331 citations	56 h-index	224 g-index
224 ext. papers	81,759 ext. citations	13.1 avg, IF	8.01 L-index

#	Paper	IF	Citations
194	Transcript assembly and quantification by RNA-Seq reveals unannotated transcripts and isoform switching during cell differentiation. <i>Nature Biotechnology</i> , 2010 , 28, 511-5	44.5	10225
193	TopHat: discovering splice junctions with RNA-Seq. <i>Bioinformatics</i> , 2009 , 25, 1105-11	7.2	9121
192	Differential gene and transcript expression analysis of RNA-seq experiments with TopHat and Cufflinks. <i>Nature Protocols</i> , 2012 , 7, 562-78	18.8	8342
191	Initial sequencing and comparative analysis of the mouse genome. <i>Nature</i> , 2002 , 420, 520-62	50.4	5376
190	Identification and analysis of functional elements in 1% of the human genome by the ENCODE pilot project. <i>Nature</i> , 2007 , 447, 799-816	50.4	4121
189	Near-optimal probabilistic RNA-seq quantification. <i>Nature Biotechnology</i> , 2016 , 34, 525-7	44.5	3742
188	Differential analysis of gene regulation at transcript resolution with RNA-seq. <i>Nature Biotechnology</i> , 2013 , 31, 46-53	44.5	2465
187	Sequence and comparative analysis of the chicken genome provide unique perspectives on vertebrate evolution. <i>Nature</i> , 2004 , 432, 695-716	50.4	2143
186	Comprehensive, Integrative Genomic Analysis of Diffuse Lower-Grade Gliomas. <i>New England Journal of Medicine</i> , 2015 , 372, 2481-98	59.2	1828
185	The ENCODE (ENCyclopedia Of DNA Elements) Project. <i>Science</i> , 2004 , 306, 636-40	33.3	1692
184	Genome sequence of the Brown Norway rat yields insights into mammalian evolution. <i>Nature</i> , 2004 , 428, 493-521	50.4	1689
183	Evolution of genes and genomes on the Drosophila phylogeny. <i>Nature</i> , 2007 , 450, 203-18	50.4	1586
182	VISTA: computational tools for comparative genomics. <i>Nucleic Acids Research</i> , 2004 , 32, W273-9	20.1	1441
181	Disordered microbial communities in asthmatic airways. <i>PLoS ONE</i> , 2010 , 5, e8578	3.7	1085
180	Improving RNA-Seq expression estimates by correcting for fragment bias. <i>Genome Biology</i> , 2011 , 12, R22	18.3	804
179	Identification of novel transcripts in annotated genomes using RNA-Seq. <i>Bioinformatics</i> , 2011 , 27, 2325-9	7.2	716
178	Differential analysis of RNA-seq incorporating quantification uncertainty. <i>Nature Methods</i> , 2017 , 14, 687-690	21.6	706

177	Streaming fragment assignment for real-time analysis of sequencing experiments. <i>Nature Methods</i> , 2013 , 10, 71-3	21.6	649
176	Discovery of functional elements in 12 <i>Drosophila</i> genomes using evolutionary signatures. <i>Nature</i> , 2007 , 450, 219-32	50.4	506
175	Population genomics: whole-genome analysis of polymorphism and divergence in <i>Drosophila simulans</i> . <i>PLoS Biology</i> , 2007 , 5, e310	9.7	479
174	Phylogenetic shadowing of primate sequences to find functional regions of the human genome. <i>Science</i> , 2003 , 299, 1391-4	33.3	431
173	A genome-wide map of conserved microRNA targets in <i>C. elegans</i> . <i>Current Biology</i> , 2006 , 16, 460-71	6.3	353
172	AVID: A global alignment program. <i>Genome Research</i> , 2003 , 13, 97-102	9.7	328
171	rVista for comparative sequence-based discovery of functional transcription factor binding sites. <i>Genome Research</i> , 2002 , 12, 832-9	9.7	282
170	Multiplexed RNA structure characterization with selective 2'-hydroxyl acylation analyzed by primer extension sequencing (SHAPE-Seq). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 11063-8	11.5	280
169	Fast statistical alignment. <i>PLoS Computational Biology</i> , 2009 , 5, e1000392	5	252
168	Active conservation of noncoding sequences revealed by three-way species comparisons. <i>Genome Research</i> , 2000 , 10, 1304-6	9.7	240
167	Human and mouse gene structure: comparative analysis and application to exon prediction. <i>Genome Research</i> , 2000 , 10, 950-8	9.7	225
166	Bioinformatics for whole-genome shotgun sequencing of microbial communities. <i>PLoS Computational Biology</i> , 2005 , 1, 106-12	5	221
165	MAVID: constrained ancestral alignment of multiple sequences. <i>Genome Research</i> , 2004 , 14, 693-9	9.7	209
164	Viral population estimation using pyrosequencing. <i>PLoS Computational Biology</i> , 2008 , 4, e1000074	5	174
163	Identification and correction of systematic error in high-throughput sequence data. <i>BMC Bioinformatics</i> , 2011 , 12, 451	3.6	173
162	Strategies and tools for whole-genome alignments. <i>Genome Research</i> , 2003 , 13, 73-80	9.7	165
161	Analyses of deep mammalian sequence alignments and constraint predictions for 1% of the human genome. <i>Genome Research</i> , 2007 , 17, 760-74	9.7	163
160	Binding site turnover produces pervasive quantitative changes in transcription factor binding between closely related <i>Drosophila</i> species. <i>PLoS Biology</i> , 2010 , 8, e1000343	9.7	154

159	Single-cell transcriptomics reveals receptor transformations during olfactory neurogenesis. <i>Science</i> , 2015 , 350, 1251-5	33.3	139
158	SLAM: cross-species gene finding and alignment with a generalized pair hidden Markov model. <i>Genome Research</i> , 2003 , 13, 496-502	9.7	112
157	A dynamic intron retention program enriched in RNA processing genes regulates gene expression during terminal erythropoiesis. <i>Nucleic Acids Research</i> , 2016 , 44, 838-51	20.1	111
156	Exon-level microarray analyses identify alternative splicing programs in breast cancer. <i>Molecular Cancer Research</i> , 2010 , 8, 961-74	6.6	101
155	Mapping and identification of essential gene functions on the X chromosome of Drosophila. <i>EMBO Reports</i> , 2002 , 3, 34-8	6.5	99
154	Genome methylation in D. melanogaster is found at specific short motifs and is independent of DNMT2 activity. <i>Genome Research</i> , 2014 , 24, 821-30	9.7	96
153	Modeling and automation of sequencing-based characterization of RNA structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 11069-74	11.5	95
152	Multimodal Analysis of Cell Types in a Hypothalamic Node Controlling Social Behavior. <i>Cell</i> , 2019 , 179, 713-728.e17	56.2	84
151	Fast and accurate single-cell RNA-seq analysis by clustering of transcript-compatibility counts. <i>Genome Biology</i> , 2016 , 17, 112	18.3	76
150	Human intestinal tissue with adult stem cell properties derived from pluripotent stem cells. <i>Stem Cell Reports</i> , 2014 , 2, 838-52	8	72
149	A dynamic alternative splicing program regulates gene expression during terminal erythropoiesis. <i>Nucleic Acids Research</i> , 2014 , 42, 4031-42	20.1	65
148	Multiple alignment by sequence annealing. <i>Bioinformatics</i> , 2007 , 23, e24-9	7.2	60
147	Tropical geometry of statistical models. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 16132-7	11.5	60
146	CGAL: computing genome assembly likelihoods. <i>Genome Biology</i> , 2013 , 14, R8	18.3	59
145	Why Neighbor-Joining Works. <i>Algorithmica</i> , 2009 , 54, 1-24	0.9	59
144	SHAPE-Seq: High-Throughput RNA Structure Analysis. <i>Current Protocols in Chemical Biology</i> , 2012 , 4, 275-97	1.8	58
143	Gene-level differential analysis at transcript-level resolution. <i>Genome Biology</i> , 2018 , 19, 53	18.3	57
142	Applications of generalized pair hidden Markov models to alignment and gene finding problems. <i>Journal of Computational Biology</i> , 2002 , 9, 389-99	1.7	57

141	Modular and efficient pre-processing of single-cell RNA-seq		57
140	A curated database reveals trends in single-cell transcriptomics. <i>Database: the Journal of Biological Databases and Curation</i> , 2020 , 2020,	5	56
139	Single-cell analysis at the threshold. <i>Nature Biotechnology</i> , 2016 , 34, 1111-1118	44.5	55
138	The barcode, UMI, set format and BUSTools. <i>Bioinformatics</i> , 2019 , 35, 4472-4473	7.2	54
137	A discriminative learning approach to differential expression analysis for single-cell RNA-seq. <i>Nature Methods</i> , 2019 , 16, 163-166	21.6	53
136	Modular, efficient and constant-memory single-cell RNA-seq preprocessing. <i>Nature Biotechnology</i> , 2021 , 39, 813-818	44.5	53
135	Reference based annotation with GeneMapper. <i>Genome Biology</i> , 2006 , 7, R29	18.3	50
134	Association mapping from sequencing reads using -mers. <i>ELife</i> , 2018 , 7,	8.9	48
133	Analysis of epistatic interactions and fitness landscapes using a new geometric approach. <i>BMC Evolutionary Biology</i> , 2007 , 7, 60	3	47
132	Development of a low bias method for characterizing viral populations using next generation sequencing technology. <i>PLoS ONE</i> , 2010 , 5, e13564	3.7	45
131	A multimodal cell census and atlas of the mammalian primary motor cortex. <i>Nature</i> , 2021 , 598, 86-102	50.4	44
130	HMM sampling and applications to gene finding and alternative splicing. <i>Bioinformatics</i> , 2003 , 19 Suppl 2, ii36-41	7.2	43
129	Intraspecies sequence comparisons for annotating genomes. <i>Genome Research</i> , 2004 , 14, 2406-11	9.7	42
128	Evolution at the nucleotide level: the problem of multiple whole-genome alignment. <i>Human Molecular Genetics</i> , 2006 , 15 Spec No 1, R51-6	5.6	41
127	Parametric inference for biological sequence analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 16138-43	11.5	40
126	MAVID multiple alignment server. <i>Nucleic Acids Research</i> , 2003 , 31, 3525-6	20.1	40
125	A diverse epigenetic landscape at human exons with implication for expression. <i>Nucleic Acids Research</i> , 2015 , 43, 3498-508	20.1	38
124	Shape-based peak identification for ChIP-Seq. <i>BMC Bioinformatics</i> , 2011 , 12, 15	3.6	38

123	Convex Rank Tests and Semigraphoids. <i>SIAM Journal on Discrete Mathematics</i> , 2009 , 23, 1117-1134	0.7	38
122	Identification of transposable elements using multiple alignments of related genomes. <i>Genome Research</i> , 2006 , 16, 260-70	9.7	38
121	Interpretable factor models of single-cell RNA-seq via variational autoencoders. <i>Bioinformatics</i> , 2020 , 36, 3418-3421	7.2	37
120	Multiple-sequence functional annotation and the generalized hidden Markov phylogeny. <i>Bioinformatics</i> , 2004 , 20, 1850-60	7.2	37
119	Reconstructing trees from subtree weights. <i>Applied Mathematics Letters</i> , 2004 , 17, 615-621	3.5	37
118	Constrained Optimization for UAV Task Assignment 2004 ,		37
117	Optimization of air vehicles operations using mixed-integer linear programming. <i>Journal of the Operational Research Society</i> , 2007 , 58, 516-527	2	36
116	Highly multiplexed single-cell RNA-seq by DNA oligonucleotide tagging of cellular proteins. <i>Nature Biotechnology</i> , 2020 , 38, 35-38	44.5	35
115	Accurate design of translational output by a neural network model of ribosome distribution. <i>Nature Structural and Molecular Biology</i> , 2018 , 25, 577-582	17.6	35
114	Forcing matchings on square grids. <i>Discrete Mathematics</i> , 1998 , 190, 287-294	0.7	34
113	Phyloepigenomic comparison of great apes reveals a correlation between somatic and germline methylation states. <i>Genome Research</i> , 2011 , 21, 2049-57	9.7	32
112	Comparison of pattern detection methods in microarray time series of the segmentation clock. <i>PLoS ONE</i> , 2008 , 3, e2856	3.7	32
111	Specific alignment of structured RNA: stochastic grammars and sequence annealing. <i>Bioinformatics</i> , 2008 , 24, 2677-83	7.2	31
110	Differential analysis of RNA-Seq incorporating quantification uncertainty		31
109	UAV Task Assignment with Timing Constraints via Mixed-Integer Linear Programming 2004 ,		30
108	RNA Velocity: Molecular Kinetics from Single-Cell RNA-Seq. <i>Molecular Cell</i> , 2018 , 72, 7-9	17.6	30
107	RNA structure characterization from chemical mapping experiments 2011 ,		29
106	Parametric alignment of Drosophila genomes. <i>PLoS Computational Biology</i> , 2006 , 2, e73	5	28

105	Swab-Seq: A high-throughput platform for massively scaled up SARS-CoV-2 testing 2021 ,		28
104	On the optimality of the neighbor-joining algorithm. <i>Algorithms for Molecular Biology</i> , 2008 , 3, 5	1.8	25
103	Combining statistical alignment and phylogenetic footprinting to detect regulatory elements. <i>Bioinformatics</i> , 2008 , 24, 1236-42	7.2	25
102	The Mathematics of Phylogenomics. <i>SIAM Review</i> , 2007 , 49, 3-31	7.4	25
101	Accurate identification of novel human genes through simultaneous gene prediction in human, mouse, and rat. <i>Genome Research</i> , 2004 , 14, 661-4	9.7	25
100	Principles of open source bioinstrumentation applied to the poseidon syringe pump system. <i>Scientific Reports</i> , 2019 , 9, 12385	4.9	24
99	The NIH BD2K center for big data in translational genomics. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2015 , 22, 1143-7	8.6	24
98	Rational experiment design for sequencing-based RNA structure mapping. <i>Rna</i> , 2014 , 20, 1864-77	5.8	24
97	A transcriptomic and epigenomic cell atlas of the mouse primary motor cortex. <i>Nature</i> , 2021 , 598, 103-110	10.4	23
96	An integrated transcriptomic and epigenomic atlas of mouse primary motor cortex cell types		23
95	Protein velocity and acceleration from single-cell multiomics experiments. <i>Genome Biology</i> , 2020 , 21, 39	18.3	19
94	Beyond pairwise distances: neighbor-joining with phylogenetic diversity estimates. <i>Molecular Biology and Evolution</i> , 2006 , 23, 491-8	8.3	19
93	Fragment assignment in the cloud with eXpress-D. <i>BMC Bioinformatics</i> , 2013 , 14, 358	3.6	18
92	Updating RNA-Seq analyses after re-annotation. <i>Bioinformatics</i> , 2013 , 29, 1631-7	7.2	18
91	RNA-Seq and find: entering the RNA deep field. <i>Genome Medicine</i> , 2011 , 3, 74	14.4	18
90	Toward the human genotope. <i>Bulletin of Mathematical Biology</i> , 2007 , 69, 2723-35	2.1	18
89	scvi-tools: a library for deep probabilistic analysis of single-cell omics data		18
88	Estimating intrinsic and extrinsic noise from single-cell gene expression measurements. <i>Statistical Applications in Genetics and Molecular Biology</i> , 2016 , 15, 447-471	1.2	17

87	Identification of evolutionary hotspots in the rodent genomes. <i>Genome Research</i> , 2004 , 14, 574-9	9.7	17
86	A curated database reveals trends in single-cell transcriptomics		17
85	A dictionary-based approach for gene annotation. <i>Journal of Computational Biology</i> , 1999 , 6, 419-30	1.7	16
84	Finding Convex Sets Among Points in the Plane. <i>Discrete and Computational Geometry</i> , 1998 , 19, 405-410.	0.6	15
83	Subtree power analysis and species selection for comparative genomics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 7900-5	11.5	15
82	The neighbor-net algorithm. <i>Advances in Applied Mathematics</i> , 2011 , 47, 240-258	0.8	14
81	Visualization of multiple genome annotations and alignments with the K-BROWSER. <i>Genome Research</i> , 2004 , 14, 716-20	9.7	14
80	Pregnancy-Induced Changes in Systemic Gene Expression among Healthy Women and Women with Rheumatoid Arthritis. <i>PLoS ONE</i> , 2015 , 10, e0145204	3.7	14
79	Massively scaled-up testing for SARS-CoV-2 RNA via next-generation sequencing of pooled and barcoded nasal and saliva samples. <i>Nature Biomedical Engineering</i> , 2021 , 5, 657-665	19	14
78	PROBer Provides a General Toolkit for Analyzing Sequencing-Based Toeprinting Assays. <i>Cell Systems</i> , 2017 , 4, 568-574.e7	10.6	13
77	Forcing numbers of stop signs. <i>Theoretical Computer Science</i> , 2003 , 303, 409-416	1.1	13
76	Picking alignments from (Steiner) trees. <i>Journal of Computational Biology</i> , 2003 , 10, 509-20	1.7	13
75	Museum of spatial transcriptomics.. <i>Nature Methods</i> , 2022 ,	21.6	13
74	A multimodal cell census and atlas of the mammalian primary motor cortex		12
73	The Specious Art of Single-Cell Genomics		12
72	Barcode identification for single cell genomics. <i>BMC Bioinformatics</i> , 2019 , 20, 32	3.6	11
71	Fusion detection and quantification by pseudoalignment		11
70	The Lair: a resource for exploratory analysis of published RNA-Seq data. <i>BMC Bioinformatics</i> , 2016 , 17, 490	3.6	10

69	Combinatorics of least-squares trees. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 13206-11	11.5	10
68	Odd-paired is a pioneer-like factor that coordinates with Zelda to control gene expression in embryos. <i>ELife</i> , 2020 , 9,	8.9	10
67	Quantifying the tradeoff between sequencing depth and cell number in single-cell RNA-seq		10
66	Museum of Spatial Transcriptomics		10
65	MetMap enables genome-scale Methylation for determining methylation states in populations. <i>PLoS Computational Biology</i> , 2010 , 6, e1000888	5	9
64	Coverage statistics for sequence census methods. <i>BMC Bioinformatics</i> , 2010 , 11, 430	3.6	9
63	The computational challenges of applying comparative-based computational methods to whole genomes. <i>Briefings in Bioinformatics</i> , 2002 , 3, 18-22	13.4	9
62	A Python library for probabilistic analysis of single-cell omics data.. <i>Nature Biotechnology</i> , 2022 , 40, 163-165	14.5	9
61	Transcriptomic response of <i>Drosophila melanogaster</i> pupae developed in hypergravity. <i>Genomics</i> , 2016 , 108, 158-167	4.3	9
60	Expression reflects population structure. <i>PLoS Genetics</i> , 2018 , 14, e1007841	6	9
59	SLAM web server for comparative gene finding and alignment. <i>Nucleic Acids Research</i> , 2003 , 31, 3507-9	20.1	8
58	Decrease in ACE2 mRNA expression in aged mouse lung		8
57	Special function methods for bursty models of transcription. <i>Physical Review E</i> , 2020 , 102, 022409	2.4	8
56	The cyclohedron test for finding periodic genes in time course expression studies. <i>Statistical Applications in Genetics and Molecular Biology</i> , 2007 , 6, Article 21	1.2	7
55	Combinatorial Approaches and Conjectures for 2-Divisibility Problems Concerning Domino Tilings of Polyominoes. <i>Electronic Journal of Combinatorics</i> , 1997 , 4,	1.1	7
54	A direct comparison of genome alignment and transcriptome pseudoalignment		7
53	Phylogenetic Profiling of Insertions and Deletions in Vertebrate Genomes. <i>Lecture Notes in Computer Science</i> , 2006 , 265-280	0.9	7
52	RefShannon: A genome-guided transcriptome assembler using sparse flow decomposition. <i>PLoS ONE</i> , 2020 , 15, e0232946	3.7	6

51	Pregnancy-induced gene expression changes in vivo among women with rheumatoid arthritis: a pilot study. <i>Arthritis Research and Therapy</i> , 2017 , 19, 104	5.7	6
50	Constructing status injective graphs. <i>Discrete Applied Mathematics</i> , 1997 , 80, 107-113	1	6
49	Large multiple organism gene finding by collapsed Gibbs sampling. <i>Journal of Computational Biology</i> , 2005 , 12, 599-608	1.7	6
48	Whole-animal multiplexed single-cell RNA-seq reveals transcriptional shifts across medusa cell types. <i>Science Advances</i> , 2021 , 7, eabh1683	14.3	6
47	Markedly heterogeneous COVID-19 testing plans among US colleges and universities		6
46	Identification of transcriptional signatures for cell types from single-cell RNA-Seq		6
45	Quantifying uniformity of mapped reads. <i>Bioinformatics</i> , 2012 , 28, 2680-2	7.2	5
44	Applications of generalized pair hidden Markov models to alignment and gene finding problems 2001 ,		5
43	Isoform cell-type specificity in the mouse primary motor cortex. <i>Nature</i> , 2021 , 598, 195-199	50.4	5
42	Reliable and accurate diagnostics from highly multiplexed sequencing assays. <i>Scientific Reports</i> , 2020 , 10, 21759	4.9	5
41	Whole Animal Multiplexed Single-Cell RNA-Seq Reveals Plasticity of Clytia Medusa Cell Types		5
40	Controlling for conservation in genome-wide DNA methylation studies. <i>BMC Genomics</i> , 2015 , 16, 420	4.5	4
39	Zika infection of neural progenitor cells perturbs transcription in neurodevelopmental pathways. <i>PLoS ONE</i> , 2017 , 12, e0175744	3.7	4
38	Affine and Projective Tree Metric Theorems. <i>Annals of Combinatorics</i> , 2013 , 17, 205-228	0.7	4
37	Human and mouse gene structure 2000 ,		4
36	Fast and accurate diagnostics from highly multiplexed sequencing assays		4
35	Intrinsic and extrinsic noise are distinguishable in a synthesis Export Degradation model of mRNA production		4
34	Interpretable factor models of single-cell RNA-seq via variational autoencoders		4

33	Benchmarking of lightweight-mapping based single-cell RNA-seq pre-processing		4
32	Normalization of single-cell RNA-seq counts by $\log(x + 1)^*$ or $\log(1 + x)$. <i>Bioinformatics</i> , 2021 ,	7.2	4
31	Patterns of gene duplication and intron loss in the ENCODE regions suggest a confounding factor. <i>Genomics</i> , 2007 , 90, 44-8	4.3	3
30	The Barcode, UMI, Set format and BUStools		3
29	Barcode identification for single cell genomics		3
28	Association Mapping from Sequencing Reads Using K-mers		3
27	Design principles for open source bioinstrumentation: the poseidon syringe pump system as an example		3
26	Structural variation among wild and industrial strains of <i>Penicillium chrysogenum</i> . <i>PLoS ONE</i> , 2014 , 9, e96784	3.7	2
25	Tracing the most parsimonious indel history. <i>Journal of Computational Biology</i> , 2011 , 18, 967-86	1.7	2
24	Pair hidden Markov models 2005 ,		2
23	Reference-free Association Mapping from Sequencing Reads Using k-mers. <i>Bio-protocol</i> , 2020 , 10, e38150.9		2
22	Isoform cell type specificity in the mouse primary motor cortex		2
21	Normalization of single-cell RNA-seq counts by $\log(x+1)^*$ or $\log(1+x)^*$		2
20	Compositional Data Analysis is necessary for simulating and analyzing RNA-Seq data		2
19	RNA velocity and protein acceleration from single-cell multiomics experiments		2
18	Analytical solutions of the chemical master equation with bursty production and isomerization reactions		2
17	Low-cost, scalable, and automated fluid sampling for fluidics applications. <i>HardwareX</i> , 2021 , 10, e00201	2.7	2
16	Factor analysis for survival time prediction with informative censoring and diverse covariates. <i>Statistics in Medicine</i> , 2019 , 38, 3719-3732	2.3	1

15	Identification and correction of systematic error in high-throughput sequence data. <i>Nature Precedings</i> , 2011 ,		1
14	Multiple organism gene finding by collapsed gibbs sampling 2004 ,		1
13	Computation 2005 , 43-84		1
12	Picking alignments from (steiner) trees 2002 ,		1
11	Prober: A general toolkit for analyzing sequencing-based Deepprinting Assays		1
10	Addressing the pooled amplification paradox with unique molecular identifiers in single-cell RNA-seq		1
9	Gene-level differential analysis at transcript-level resolution		1
8	BUTTERFLY: addressing the pooled amplification paradox with unique molecular identifiers in single-cell RNA-seq. <i>Genome Biology</i> , 2021 , 22, 174	18.3	1
7	Direct simulation of a stochastically driven multi-step birth-death process		1
6	Interpretable and tractable models of transcriptional noise for the rational design of single-molecule quantification experiments		1
5	Determining coding CpG islands by identifying regions significant for pattern statistics on Markov chains. <i>Statistical Applications in Genetics and Molecular Biology</i> , 2011 , 10,	1.2	0
4	SWALO: scaffolding with assembly likelihood optimization. <i>Nucleic Acids Research</i> , 2021 , 49, e117	20.1	0
3	Deterministic column subset selection for single-cell RNA-Seq. <i>PLoS ONE</i> , 2019 , 14, e0210571	3.7	
2	Transcript Abundance Estimation and the Laminar Packing Problem. <i>Lecture Notes in Computer Science</i> , 2019 , 203-211	0.9	
1	Exploring the genetic basis of variation in gene predictions with a synthetic association study. <i>PLoS ONE</i> , 2010 , 5, e11645	3.7	