

# Benjamin Langmead

## List of Publications by Year in Descending Order

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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.

69

papers

54,792

citations

28

h-index

91

g-index

91

ext. papers

77,543

ext. citations

14.9

avg, IF

8.69

L-index

#	Paper	IF	Citations
69	Finding Maximal Exact Matches Using the r-Index.. <i>Journal of Computational Biology</i> , <b>2022</b> ,	1.7	1
68	MONI: A Pangenomic Index for Finding Maximal Exact Matches.. <i>Journal of Computational Biology</i> , <b>2022</b> ,	1.7	4
67	recount3: summaries and queries for large-scale RNA-seq expression and splicing. <i>Genome Biology</i> , <b>2021</b> , 22, 323	18.3	3
66	Megadepth: efficient coverage quantification for BigWigs and BAMs. <i>Bioinformatics</i> , <b>2021</b> ,	7.2	3
65	LevioSAM: Fast lift-over of variant-aware reference alignments. <i>Bioinformatics</i> , <b>2021</b> ,	7.2	2
64	Pan-genomic matching statistics for targeted nanopore sequencing. <i>IScience</i> , <b>2021</b> , 24, 102696	6.1	1
63	Reference flow: reducing reference bias using multiple population genomes. <i>Genome Biology</i> , <b>2021</b> , 22, 8	18.3	8
62	PHONI: Streamed Matching Statistics with Multi-Genome References <b>2021</b> , 2021, 193-202		1
61	Efficient Construction of a Complete Index for Pan-Genomics Read Alignment. <i>Journal of Computational Biology</i> , <b>2020</b> , 27, 500-513	1.7	15
60	Matching Reads to Many Genomes with the -Index. <i>Journal of Computational Biology</i> , <b>2020</b> , 27, 514-518	1.7	5
59	Recounting the FANTOM CAGE-Associated Transcriptome. <i>Genome Research</i> , <b>2020</b> , 30, 1073-1081	9.7	13
58	Vargas: heuristic-free alignment for assessing linear and graph read aligners. <i>Bioinformatics</i> , <b>2020</b> , 36, 3712-3718	7.2	8
57	ASCOT identifies key regulators of neuronal subtype-specific splicing. <i>Nature Communications</i> , <b>2020</b> , 11, 137	17.4	16
56	Prefix-free parsing for building big BWTs. <i>Algorithms for Molecular Biology</i> , <b>2019</b> , 14, 13	1.8	16
55	Efficient Construction of a Complete Index for Pan-Genomics Read Alignment. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 158-173	0.9	5
54	Integrated Transcriptomic and Proteomic Analysis of Primary Human Umbilical Vein Endothelial Cells. <i>Proteomics</i> , <b>2019</b> , 19, e1800315	4.8	8
53	How bioinformatics and open data can boost basic science in countries and universities with limited resources. <i>Nature Biotechnology</i> , <b>2019</b> , 37, 324-326	44.5	11

52	Scaling read aligners to hundreds of threads on general-purpose processors. <i>Bioinformatics</i> , <b>2019</b> , 35, 421-432	7.2	172
51	Analyzing whole genome bisulfite sequencing data from highly divergent genotypes. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, e117	20.1	8
50	Samovar: Single-Sample Mosaic Single-Nucleotide Variant Calling with Linked Reads. <i>IScience</i> , <b>2019</b> , 18, 1-10	6.1	1
49	Improved metagenomic analysis with Kraken 2. <i>Genome Biology</i> , <b>2019</b> , 20, 257	18.3	903
48	Dashing: fast and accurate genomic distances with HyperLogLog. <i>Genome Biology</i> , <b>2019</b> , 20, 265	18.3	20
47	Cloud computing for genomic data analysis and collaboration. <i>Nature Reviews Genetics</i> , <b>2018</b> , 19, 208-219	20.1	119
46	Snaptron: querying splicing patterns across tens of thousands of RNA-seq samples. <i>Bioinformatics</i> , <b>2018</b> , 34, 114-116	7.2	18
45	Computational pan-genomics: status, promises and challenges. <i>Briefings in Bioinformatics</i> , <b>2018</b> , 19, 118-134	13.4	130
44	FORGe: prioritizing variants for graph genomes. <i>Genome Biology</i> , <b>2018</b> , 19, 220	18.3	38
43	Reproducible RNA-seq analysis using recount2. <i>Nature Biotechnology</i> , <b>2017</b> , 35, 319-321	44.5	211
42	A tandem simulation framework for predicting mapping quality. <i>Genome Biology</i> , <b>2017</b> , 18, 152	18.3	9
41	Flexible expressed region analysis for RNA-seq with derfinder. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, e9	20.1	32
40	Rail-RNA: scalable analysis of RNA-seq splicing and coverage. <i>Bioinformatics</i> , <b>2017</b> , 33, 4033-4040	7.2	33
39	Rail-dbGaP: analyzing dbGaP-protected data in the cloud with Amazon Elastic MapReduce. <i>Bioinformatics</i> , <b>2016</b> , 32, 2551-3	7.2	5
38	Boiler: lossy compression of RNA-seq alignments using coverage vectors. <i>Nucleic Acids Research</i> , <b>2016</b> , 44, e133	20.1	2
37	Human splicing diversity and the extent of unannotated splice junctions across human RNA-seq samples on the Sequence Read Archive. <i>Genome Biology</i> , <b>2016</b> , 17, 266	18.3	65
36	Widespread splicing of repetitive element loci into coding regions of gene transcripts. <i>Human Molecular Genetics</i> , <b>2016</b> , 25, 4962-4982	5.6	6
35	HISAT: a fast spliced aligner with low memory requirements. <i>Nature Methods</i> , <b>2015</b> , 12, 357-60	21.6	8026

34	Ballgown bridges the gap between transcriptome assembly and expression analysis. <i>Nature Biotechnology</i> , <b>2015</b> , 33, 243-6	44.5	413
33	Polyester: simulating RNA-seq datasets with differential transcript expression. <i>Bioinformatics</i> , <b>2015</b> , 31, 2778-84	7.2	160
32	Alignment of Next-Generation Sequencing Reads. <i>Annual Review of Genomics and Human Genetics</i> , <b>2015</b> , 16, 133-51	9.7	72
31	Arioc: high-throughput read alignment with GPU-accelerated exploration of the seed-and-extend search space. <i>PeerJ</i> , <b>2015</b> , 3, e808	3.1	20
30	Lighter: fast and memory-efficient sequencing error correction without counting. <i>Genome Biology</i> , <b>2014</b> , 15, 509	18.3	139
29	Large-scale hypomethylated blocks associated with Epstein-Barr virus-induced B-cell immortalization. <i>Genome Research</i> , <b>2014</b> , 24, 177-84	9.7	99
28	Faster sequence alignment through GPU-accelerated restriction of the seed-and-extend search space <b>2014</b> ,		2
27	Measurement, Summary, and Methodological Variation in RNA-sequencing <b>2014</b> , 115-128		
26	The DNA Data Deluge: Fast, efficient genome sequencing machines are spewing out more data than geneticists can analyze. <i>IEEE Spectrum</i> , <b>2013</b> , 50, 26-33	1.7	40
25	BSmooth: from whole genome bisulfite sequencing reads to differentially methylated regions. <i>Genome Biology</i> , <b>2012</b> , 13, R83	18.3	445
24	Reversible switching between epigenetic states in honeybee behavioral subcastes. <i>Nature Neuroscience</i> , <b>2012</b> , 15, 1371-3	25.5	237
23	Genotyping in the cloud with Crossbow. <i>Current Protocols in Bioinformatics</i> , <b>2012</b> , Chapter 15, Unit15.3	24.2	23
22	Fast gapped-read alignment with Bowtie 2. <i>Nature Methods</i> , <b>2012</b> , 9, 357-9	21.6	24735
21	Increased methylation variation in epigenetic domains across cancer types. <i>Nature Genetics</i> , <b>2011</b> , 43, 768-75	36.3	825
20	ReCount: a multi-experiment resource of analysis-ready RNA-seq gene count datasets. <i>BMC Bioinformatics</i> , <b>2011</b> , 12, 449	3.6	115
19	Cloud computing and the DNA data race. <i>Nature Biotechnology</i> , <b>2010</b> , 28, 691-3	44.5	193
18	Tackling the widespread and critical impact of batch effects in high-throughput data. <i>Nature Reviews Genetics</i> , <b>2010</b> , 11, 733-9	30.1	1232
17	Aligning short sequencing reads with Bowtie. <i>Current Protocols in Bioinformatics</i> , <b>2010</b> , Chapter 11, Unit 11.7	24.2	705

16	Cloud-scale RNA-sequencing differential expression analysis with Myrna. <i>Genome Biology</i> , <b>2010</b> , 11, R83	18.3	227
15	Searching for SNPs with cloud computing. <i>Genome Biology</i> , <b>2009</b> , 10, R134	18.3	333
14	Ultrafast and memory-efficient alignment of short DNA sequences to the human genome. <i>Genome Biology</i> , <b>2009</b> , 10, R25	18.3	14770
13	HISAT: Hierarchical Indexing for Spliced Alignment of Transcripts		3
12	Rail-RNA: Scalable analysis of RNA-seq splicing and coverage		5
11	recount: A large-scale resource of analysis-ready RNA-seq expression data		5
10	Reducing reference bias using multiple population reference genomes		4
9	Megadepth: efficient coverage quantification for BigWigs and BAMs		1
8	Prefix-Free Parsing for Building Big BWTs		2
7	Dashing: Fast and Accurate Genomic Distances with HyperLogLog		9
6	Improved metagenomic analysis with Kraken 2		30
5	Flexible expressed region analysis for RNA-seq with derfinder		6
4	Analyzing whole genome bisulfite sequencing data from highly divergent genotypes		1
3	Snaptron: querying and visualizing splicing across tens of thousands of RNA-seq samples		2
2	Scaling read aligners to hundreds of threads on general-purpose processors		2
1	MONI: A Pangenomics Index for Finding MEMs		2