

Benjamin Langmead

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8347828/publications.pdf>

Version: 2024-02-01

58
papers

90,285
citations

159358

30
h-index

161609

54
g-index

91
all docs

91
docs citations

91
times ranked

123636
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast gapped-read alignment with Bowtie 2. <i>Nature Methods</i> , 2012, 9, 357-359.	9.0	42,357
2	Ultrafast and memory-efficient alignment of short DNA sequences to the human genome. <i>Genome Biology</i> , 2009, 10, R25.	13.9	19,212
3	HISAT: a fast spliced aligner with low memory requirements. <i>Nature Methods</i> , 2015, 12, 357-360.	9.0	16,262
4	Improved metagenomic analysis with Kraken 2. <i>Genome Biology</i> , 2019, 20, 257.	3.8	2,909
5	Tackling the widespread and critical impact of batch effects in high-throughput data. <i>Nature Reviews Genetics</i> , 2010, 11, 733-739.	7.7	1,641
6	Aligning Short Sequencing Reads with Bowtie. <i>Current Protocols in Bioinformatics</i> , 2010, 32, Unit 11.7.	25.8	1,027
7	Increased methylation variation in epigenetic domains across cancer types. <i>Nature Genetics</i> , 2011, 43, 768-775.	9.4	968
8	Ballgown bridges the gap between transcriptome assembly and expression analysis. <i>Nature Biotechnology</i> , 2015, 33, 243-246.	9.4	716
9	BSmooth: from whole genome bisulfite sequencing reads to differentially methylated regions. <i>Genome Biology</i> , 2012, 13, R83.	13.9	650
10	Scaling read aligners to hundreds of threads on general-purpose processors. <i>Bioinformatics</i> , 2019, 35, 421-432.	1.8	467
11	Searching for SNPs with cloud computing. <i>Genome Biology</i> , 2009, 10, R134.	13.9	437
12	Reproducible RNA-seq analysis using recount2. <i>Nature Biotechnology</i> , 2017, 35, 319-321.	9.4	395
13	Reversible switching between epigenetic states in honeybee behavioral subcastes. <i>Nature Neuroscience</i> , 2012, 15, 1371-1373.	7.1	305
14	Cloud-scale RNA-sequencing differential expression analysis with Myrna. <i>Genome Biology</i> , 2010, 11, R83.	13.9	268
15	<i>Polyester</i>: simulating RNA-seq datasets with differential transcript expression. <i>Bioinformatics</i> , 2015, 31, 2778-2784.	1.8	250
16	Cloud computing and the DNA data race. <i>Nature Biotechnology</i> , 2010, 28, 691-693.	9.4	242
17	Computational pan-genomics: status, promises and challenges. <i>Briefings in Bioinformatics</i> , 2018, 19, bbw089.	3.2	207
18	Cloud computing for genomic data analysis and collaboration. <i>Nature Reviews Genetics</i> , 2018, 19, 208-219.	7.7	205

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19	Lighter: fast and memory-efficient sequencing error correction without counting. <i>Genome Biology</i> , 2014, 15, 509.	3.8	201
20	ReCount: A multi-experiment resource of analysis-ready RNA-seq gene count datasets. <i>BMC Bioinformatics</i> , 2011, 12, 449.	1.2	144
21	Large-scale hypomethylated blocks associated with Epstein-Barr virus-induced B-cell immortalization. <i>Genome Research</i> , 2014, 24, 177-184.	2.4	130
22	recount3: summaries and queries for large-scale RNA-seq expression and splicing. <i>Genome Biology</i> , 2021, 22, 323.	3.8	103
23	Human splicing diversity and the extent of unannotated splice junctions across human RNA-seq samples on the Sequence Read Archive. <i>Genome Biology</i> , 2016, 17, 266.	3.8	94
24	Alignment of Next-Generation Sequencing Reads. <i>Annual Review of Genomics and Human Genetics</i> , 2015, 16, 133-151.	2.5	91
25	The DNA data deluge. <i>IEEE Spectrum</i> , 2013, 50, 28-33.	0.5	67
26	Dashing: fast and accurate genomic distances with HyperLogLog. <i>Genome Biology</i> , 2019, 20, 265.	3.8	64
27	FORGe: prioritizing variants for graph genomes. <i>Genome Biology</i> , 2018, 19, 220.	3.8	59
28	Rail-RNA: scalable analysis of RNA-seq splicing and coverage. <i>Bioinformatics</i> , 2017, 33, 4033-4040.	1.8	57
29	Flexible expressed region analysis for RNA-seq with <code>derfinder</code> . <i>Nucleic Acids Research</i> , 2017, 45, e9-e9.	6.5	54
30	ASCOT identifies key regulators of neuronal subtype-specific splicing. <i>Nature Communications</i> , 2020, 11, 137.	5.8	50
31	Reference flow: reducing reference bias using multiple population genomes. <i>Genome Biology</i> , 2021, 22, 8.	3.8	44
32	Snaptron: querying splicing patterns across tens of thousands of RNA-seq samples. <i>Bioinformatics</i> , 2018, 34, 114-116.	1.8	39
33	Efficient Construction of a Complete Index for Pan-Genomics Read Alignment. <i>Journal of Computational Biology</i> , 2020, 27, 500-513.	0.8	35
34	Recounting the FANTOM CAGE-Associated Transcriptome. <i>Genome Research</i> , 2020, 30, 1073-1081.	2.4	35
35	Prefix-free parsing for building big BWTs. <i>Algorithms for Molecular Biology</i> , 2019, 14, 13.	0.3	33
36	Arioc: high-throughput read alignment with GPU-accelerated exploration of the seed-and-extend search space. <i>PeerJ</i> , 2015, 3, e808.	0.9	33

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37	Genotyping in the Cloud with Crossbow. <i>Current Protocols in Bioinformatics</i> , 2012, 39, Unit15.3.	25.8	30
38	How bioinformatics and open data can boost basic science in countries and universities with limited resources. <i>Nature Biotechnology</i> , 2019, 37, 324-326.	9.4	25
39	MONI: A Pangenomic Index for Finding Maximal Exact Matches. <i>Journal of Computational Biology</i> , 2022, 29, 169-187.	0.8	23
40	Analyzing whole genome bisulfite sequencing data from highly divergent genotypes. <i>Nucleic Acids Research</i> , 2019, 47, e117-e117.	6.5	22
41	Megadepth: efficient coverage quantification for BigWigs and BAMs. <i>Bioinformatics</i> , 2021, 37, 3014-3016.	1.8	18
42	Vargas: heuristic-free alignment for assessing linear and graph read aligners. <i>Bioinformatics</i> , 2020, 36, 3712-3718.	1.8	17
43	Integrated Transcriptomic and Proteomic Analysis of Primary Human Umbilical Vein Endothelial Cells. <i>Proteomics</i> , 2019, 19, e1800315.	1.3	16
44	Pan-genomic matching statistics for targeted nanopore sequencing. <i>IScience</i> , 2021, 24, 102696.	1.9	15
45	A tandem simulation framework for predicting mapping quality. <i>Genome Biology</i> , 2017, 18, 152.	3.8	14
46	PHONI: Streamed Matching Statistics with Multi-Genome References. , 2021, 2021, 193-202.		10
47	Widespread splicing of repetitive element loci into coding regions of gene transcripts. <i>Human Molecular Genetics</i> , 2016, 25, ddw321.	1.4	8
48	LevioSAM: fast lift-over of variant-aware reference alignments. <i>Bioinformatics</i> , 2021, 37, 4243-4245.	1.8	7
49	Samovar: Single-Sample Mosaic Single-Nucleotide Variant Calling with Linked Reads. <i>IScience</i> , 2019, 18, 1-10.	1.9	6
50	Efficient Construction of a Complete Index for Pan-Genomics Read Alignment. <i>Lecture Notes in Computer Science</i> , 2019, , 158-173.	1.0	6
51	Matching Reads to Many Genomes with the r-Index. <i>Journal of Computational Biology</i> , 2020, 27, 514-518.	0.8	6
52	Rail-dbGaP: analyzing dbGaP-protected data in the cloud with Amazon Elastic MapReduce. <i>Bioinformatics</i> , 2016, 32, 2551-2553.	1.8	5
53	Boiler: lossy compression of RNA-seq alignments using coverage vectors. <i>Nucleic Acids Research</i> , 2016, 44, e133-e133.	6.5	4
54	Fast and memory-efficient scRNA-seq k-means clustering with various distances. , 2021, 2021, .		4

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55	Finding Maximal Exact Matches Using the r-Index. <i>Journal of Computational Biology</i> , 2022, 29, 188-194.	0.8	4
56	Two-stage linked component analysis for joint decomposition of multiple biologically related data sets. <i>Biostatistics</i> , 2022, 23, 1200-1217.	0.9	3
57	Practical software for big genomics data. , 2013, , .		2
58	Measurement, Summary, and Methodological Variation in RNA-sequencing. , 2014, , 115-128.		0