

Heng Li

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

192,251
citations

15504

65
h-index

25787

108
g-index

138
all docs

138
docs citations

138
times ranked

174852
citing authors

#	ARTICLE	IF	CITATIONS
1	The Sequence Alignment/Map format and SAMtools. Bioinformatics, 2009, 25, 2078-2079.	4.1	49,124
2	Fast and accurate short read alignment with Burrows-Wheeler transform. Bioinformatics, 2009, 25, 1754-1760.	4.1	43,062
3	A global reference for human genetic variation. Nature, 2015, 526, 68-74.	27.8	13,998
4	Fast and accurate long-read alignment with Burrows-Wheeler transform. Bioinformatics, 2010, 26, 589-595.	4.1	10,002
5	Minimap2: pairwise alignment for nucleotide sequences. Bioinformatics, 2018, 34, 3094-3100.	4.1	7,764
6	A map of human genome variation from population-scale sequencing. Nature, 2010, 467, 1061-1073.	27.8	7,209
7	An integrated map of genetic variation from 1,092 human genomes. Nature, 2012, 491, 56-65.	27.8	7,199
8	A statistical framework for SNP calling, mutation discovery, association mapping and population genetical parameter estimation from sequencing data. Bioinformatics, 2011, 27, 2987-2993.	4.1	5,467
9	Twelve years of SAMtools and BCFtools. GigaScience, 2021, 10, .	6.4	4,546
10	A Draft Sequence of the Neandertal Genome. Science, 2010, 328, 710-722.	12.6	3,588
11	Accurate whole human genome sequencing using reversible terminator chemistry. Nature, 2008, 456, 53-59.	27.8	3,118
12	Mapping short DNA sequencing reads and calling variants using mapping quality scores. Genome Research, 2008, 18, 1851-1858.	5.5	2,275
13	Inference of human population history from individual whole-genome sequences. Nature, 2011, 475, 493-496.	27.8	2,053
14	The complete genome sequence of a Neanderthal from the Altai Mountains. Nature, 2014, 505, 43-49.	27.8	1,830
15	A High-Coverage Genome Sequence from an Archaic Denisovan Individual. Science, 2012, 338, 222-226.	12.6	1,695
16	Haplotype-resolved de novo assembly using phased assembly graphs with hifiasm. Nature Methods, 2021, 18, 170-175.	19.0	1,675
17	Genetic history of an archaic hominin group from Denisova Cave in Siberia. Nature, 2010, 468, 1053-1060.	27.8	1,537
18	The complete sequence of a human genome. Science, 2022, 376, 44-53.	12.6	1,222

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19	The Simons Genome Diversity Project: 300 genomes from 142 diverse populations. <i>Nature</i> , 2016, 538, 201-206.	27.8	1,216
20	Ancient human genomes suggest three ancestral populations for present-day Europeans. <i>Nature</i> , 2014, 513, 409-413.	27.8	1,179
21	Minimap and miniiasm: fast mapping and de novo assembly for noisy long sequences. <i>Bioinformatics</i> , 2016, 32, 2103-2110.	4.1	1,082
22	EnsemblCompara GeneTrees: Complete, duplication-aware phylogenetic trees in vertebrates. <i>Genome Research</i> , 2009, 19, 327-335.	5.5	1,058
23	The sequence and de novo assembly of the giant panda genome. <i>Nature</i> , 2010, 463, 311-317.	27.8	1,058
24	Accurate circular consensus long-read sequencing improves variant detection and assembly of a human genome. <i>Nature Biotechnology</i> , 2019, 37, 1155-1162.	17.5	1,010
25	A Draft Sequence for the Genome of the Domesticated Silkworm (<i>Bombyx mori</i>). <i>Science</i> , 2004, 306, 1937-1940.	12.6	994
26	Fast and accurate long-read assembly with wtdbg2. <i>Nature Methods</i> , 2020, 17, 155-158.	19.0	917
27	Genome sequence of a 45,000-year-old modern human from western Siberia. <i>Nature</i> , 2014, 514, 445-449.	27.8	856
28	The diploid genome sequence of an Asian individual. <i>Nature</i> , 2008, 456, 60-65.	27.8	834
29	The Genomes of <i>Oryza sativa</i> : A History of Duplications. <i>PLoS Biology</i> , 2005, 3, e38.	5.6	808
30	Toward better understanding of artifacts in variant calling from high-coverage samples. <i>Bioinformatics</i> , 2014, 30, 2843-2851.	4.1	790
31	Great ape genetic diversity and population history. <i>Nature</i> , 2013, 499, 471-475.	27.8	768
32	A survey of sequence alignment algorithms for next-generation sequencing. <i>Briefings in Bioinformatics</i> , 2010, 11, 473-483.	6.5	765
33	Identification of somatically acquired rearrangements in cancer using genome-wide massively parallel paired-end sequencing. <i>Nature Genetics</i> , 2008, 40, 722-729.	21.4	736
34	Evaluation of GRCh38 and de novo haploid genome assemblies demonstrates the enduring quality of the reference assembly. <i>Genome Research</i> , 2017, 27, 849-864.	5.5	728
35	Efficient Architecture-Aware Acceleration of BWA-MEM for Multicore Systems. , 2019, , .		671
36	A Bayesian deconvolution strategy for immunoprecipitation-based DNA methylome analysis. <i>Nature Biotechnology</i> , 2008, 26, 779-785.	17.5	619

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37	Tabix: fast retrieval of sequence features from generic TAB-delimited files. <i>Bioinformatics</i> , 2011, 27, 718-719.	4.1	494
38	TreeFam: a curated database of phylogenetic trees of animal gene families. <i>Nucleic Acids Research</i> , 2006, 34, D572-D580.	14.5	465
39	The Date of Interbreeding between Neandertals and Modern Humans. <i>PLoS Genetics</i> , 2012, 8, e1002947.	3.5	402
40	A genetic variation map for chicken with 2.8 million single-nucleotide polymorphisms. <i>Nature</i> , 2004, 432, 717-722.	27.8	391
41	Three-dimensional genome structures of single diploid human cells. <i>Science</i> , 2018, 361, 924-928.	12.6	347
42	Exploring single-sample SNP and INDEL calling with whole-genome <i>de novo</i> assembly. <i>Bioinformatics</i> , 2012, 28, 1838-1844.	4.1	330
43	Single-cell whole-genome analyses by Linear Amplification via Transposon Insertion (LIANTI). <i>Science</i> , 2017, 356, 189-194.	12.6	303
44	A direct characterization of human mutation based on microsatellites. <i>Nature Genetics</i> , 2012, 44, 1161-1165.	21.4	302
45	New strategies to improve minimap2 alignment accuracy. <i>Bioinformatics</i> , 2021, 37, 4572-4574.	4.1	296
46	TreeFam: 2008 Update. <i>Nucleic Acids Research</i> , 2007, 36, D735-D740.	14.5	294
47	Improving SNP discovery by base alignment quality. <i>Bioinformatics</i> , 2011, 27, 1157-1158.	4.1	275
48	Complete Genomes Reveal Signatures of Demographic and Genetic Declines in the Woolly Mammoth. <i>Current Biology</i> , 2015, 25, 1395-1400.	3.9	263
49	Extremely low-coverage sequencing and imputation increases power for genome-wide association studies. <i>Nature Genetics</i> , 2012, 44, 631-635.	21.4	239
50	The design and construction of reference pangenome graphs with minigraph. <i>Genome Biology</i> , 2020, 21, 265.	8.8	195
51	The Human Pangenome Project: a global resource to map genomic diversity. <i>Nature</i> , 2022, 604, 437-446.	27.8	192
52	HTSlib: C library for reading/writing high-throughput sequencing data. <i>GigaScience</i> , 2021, 10, .	6.4	191
53	No evidence that selection has been less effective at removing deleterious mutations in Europeans than in Africans. <i>Nature Genetics</i> , 2015, 47, 126-131.	21.4	182
54	BFC: correcting Illumina sequencing errors. <i>Bioinformatics</i> , 2015, 31, 2885-2887.	4.1	173

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55	Functional equivalence of genome sequencing analysis pipelines enables harmonized variant calling across human genetics projects. <i>Nature Communications</i> , 2018, 9, 4038.	12.8	166
56	pIRS: Profile-based Illumina pair-end reads simulator. <i>Bioinformatics</i> , 2012, 28, 1533-1535.	4.1	163
57	Genes controlling seed dormancy and pre-harvest sprouting in a rice-wheat-barley comparison. <i>Functional and Integrative Genomics</i> , 2004, 4, 84-93.	3.5	157
58	A synthetic-diploid benchmark for accurate variant-calling evaluation. <i>Nature Methods</i> , 2018, 15, 595-597.	19.0	154
59	Targeting a cytokine checkpoint enhances the fitness of armored cord blood CAR-NK cells. <i>Blood</i> , 2021, 137, 624-636.	1.4	147
60	The contribution of rare variation to prostate cancer heritability. <i>Nature Genetics</i> , 2016, 48, 30-35.	21.4	139
61	Haplotype-resolved assembly of diploid genomes without parental data. <i>Nature Biotechnology</i> , 2022, 40, 1332-1335.	17.5	139
62	Neutral evolution of "non-coding" complementary DNAs. <i>Nature</i> , 2004, 431, 1-2.	27.8	127
63	SOAPindel: Efficient identification of indels from short paired reads. <i>Genome Research</i> , 2013, 23, 195-200.	5.5	115
64	Chromosome-scale, haplotype-resolved assembly of human genomes. <i>Nature Biotechnology</i> , 2021, 39, 309-312.	17.5	109
65	A cohort autopsy study defines COVID-19 systemic pathogenesis. <i>Cell Research</i> , 2021, 31, 836-846.	12.0	93
66	FermiKit: assembly-based variant calling for Illumina resequencing data. <i>Bioinformatics</i> , 2015, 31, 3694-3696.	4.1	92
67	Curated variation benchmarks for challenging medically relevant autosomal genes. <i>Nature Biotechnology</i> , 2022, 40, 672-680.	17.5	90
68	Extreme selective sweeps independently targeted the X chromosomes of the great apes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6413-6418.	7.1	75
69	Pyroptotic macrophages stimulate the SARS-CoV-2-associated cytokine storm. <i>Cellular and Molecular Immunology</i> , 2021, 18, 1305-1307.	10.5	74
70	Differential DNA methylation of vocal and facial anatomy genes in modern humans. <i>Nature Communications</i> , 2020, 11, 1189.	12.8	69
71	Porcine transcriptome analysis based on 97 non-normalized cDNA libraries and assembly of 1,021,891 expressed sequence tags. <i>Genome Biology</i> , 2007, 8, R45.	9.6	67
72	An Accurate and Comprehensive Clinical Sequencing Assay for Cancer Targeted and Immunotherapies. <i>Oncologist</i> , 2019, 24, e1294-e1302.	3.7	67

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73	Using population admixture to help complete maps of the human genome. <i>Nature Genetics</i> , 2013, 45, 406-414.	21.4	61
74	Fast construction of FM-index for long sequence reads. <i>Bioinformatics</i> , 2014, 30, 3274-3275.	4.1	56
75	Metagenome assembly of high-fidelity long reads with hifiasm-meta. <i>Nature Methods</i> , 2022, 19, 671-674.	19.0	56
76	Pathological changes in the lungs and lymphatic organs of 12 COVID-19 autopsy cases. <i>National Science Review</i> , 2020, 7, 1868-1878.	9.5	52
77	BGT: efficient and flexible genotype query across many samples. <i>Bioinformatics</i> , 2016, 32, 590-592.	4.1	46
78	Comprehensive identification of transposable element insertions using multiple sequencing technologies. <i>Nature Communications</i> , 2021, 12, 3836.	12.8	44
79	Accurate SNV detection in single cells by transposon-based whole-genome amplification of complementary strands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	41
80	Real-time mapping of nanopore raw signals. <i>Bioinformatics</i> , 2021, 37, i477-i483.	4.1	41
81	Detecting SNPs and estimating allele frequencies in clonal bacterial populations by sequencing pooled DNA. <i>Bioinformatics</i> , 2009, 25, 2074-2075.	4.1	40
82	Fast alignment and preprocessing of chromatin profiles with Chromap. <i>Nature Communications</i> , 2021, 12, 6566.	12.8	39
83	Snap: an integrated SNP annotation platform. <i>Nucleic Acids Research</i> , 2007, 35, D707-D710.	14.5	36
84	Deep short-read sequencing of chromosome 17 from the mouse strains A/J and CAST/Ei identifies significant germline variation and candidate genes that regulate liver triglyceride levels. <i>Genome Biology</i> , 2009, 10, R112.	9.6	36
85	Mapping the Human Reference Genome's Missing Sequence by Three-Way Admixture in Latino Genomes. <i>American Journal of Human Genetics</i> , 2013, 93, 411-421.	6.2	36
86	Worldwide genetic variation of the IGHV and TRBV immune receptor gene families in humans. <i>Life Science Alliance</i> , 2019, 2, e201800221.	2.8	33
87	Evaluating the contribution of rare variants to type 2 diabetes and related traits using pedigrees. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 379-384.	7.1	28
88	Omics-based profiling of carcinoma of the breast and matched regional lymph node metastasis. <i>Proteomics</i> , 2008, 8, 5038-5052.	2.2	26
89	The anatomy of successful computational biology software. <i>Nature Biotechnology</i> , 2013, 31, 894-897.	17.5	25
90	htsget: a protocol for securely streaming genomic data. <i>Bioinformatics</i> , 2019, 35, 119-121.	4.1	23

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91	Identifying centromeric satellites with dna-brnn. <i>Bioinformatics</i> , 2019, 35, 4408-4410.	4.1	22
92	A haplotype-aware<i>de novo</i>assembly of related individuals using pedigree sequence graph. <i>Bioinformatics</i> , 2020, 36, 2385-2392.	4.1	22
93	CRISPAItRations: A validated cloud-based approach for interrogation of double-strand break repair mediated by CRISPR genome editing. <i>Molecular Therapy - Methods and Clinical Development</i> , 2021, 21, 478-491.	4.1	18
94	Haplotype frequencies in a sub-region of chromosome 19q13.3, related to risk and prognosis of cancer, differ dramatically between ethnic groups. <i>BMC Medical Genetics</i> , 2009, 10, 20.	2.1	16
95	Postmortem high-dimensional immune profiling of severe COVID-19 patients reveals distinct patterns of immunosuppression and immunoactivation. <i>Nature Communications</i> , 2022, 13, 269.	12.8	16
96	Test Data Sets and Evaluation of Gene Prediction Programs on the Rice Genome. <i>Journal of Computer Science and Technology</i> , 2005, 20, 446-453.	1.5	14
97	Higher Rates of Processed Pseudogene Acquisition in Humans and Three Great Apes Revealed by Long-Read Assemblies. <i>Molecular Biology and Evolution</i> , 2021, 38, 2958-2966.	8.9	13
98	Pseudo-Sanger sequencing: massively parallel production of long and near error-free reads using NGS technology. <i>BMC Genomics</i> , 2013, 14, 711.	2.8	12
99	<p>>The distinct clinicopathological and prognostic implications of >PIK3CA</p><p>>mutations in breast cancer patients from Central China</p><p></p>. <i>Cancer Management and Research</i> , 2019, Volume 11, 1473-1492.	1.9	10
100	Comprehensive Characterizations of Immune Receptor Repertoire in Tumors and Cancer Immunotherapy Studies. <i>Cancer Immunology Research</i> , 2022, 10, 788-799.	3.4	10
101	PigGIS: Pig Genomic Informatics System. <i>Nucleic Acids Research</i> , 2007, 35, D654-D657.	14.5	9
102	Evolutionary Transients in the Rice Transcriptome. <i>Genomics, Proteomics and Bioinformatics</i> , 2010, 8, 211-228.	6.9	9
103	Bedtk: finding interval overlap with implicit interval tree. <i>Bioinformatics</i> , 2021, 37, 1315-1316.	4.1	5
104	Haplotype-resolved germline and somatic alterations in renal medullary carcinomas. <i>Genome Medicine</i> , 2021, 13, 114.	8.2	5
105	CoLoRd: compressing long reads. <i>Nature Methods</i> , 2022, 19, 441-444.	19.0	5
106	A cross-species alignment tool (CAT). <i>BMC Bioinformatics</i> , 2007, 8, 349.	2.6	4
107	Vasculogenic Mimicry Formation Predicts Tumor Progression in Oligodendroglioma. <i>Pathology and Oncology Research</i> , 2021, 27, 1609844.	1.9	2
108	Aberrant expression of thyroid transcription factor-1 in meningeal solitary fibrous tumor/hemangiopericytoma. <i>Brain Tumor Pathology</i> , 2021, 38, 122-131.	1.7	0

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109	The Prognostic Value of Retraction Clefts in Chinese Invasive Breast Cancer Patients. Pathology and Oncology Research, 2021, 27, 1609743.	1.9	0
110	BCOR-CCNB3 sarcoma with concurrent RNF213-SLC26A11 gene fusion: a rare sarcoma with altered histopathological features after chemotherapy. World Journal of Surgical Oncology, 2022, 20, 156.	1.9	0