

Heng Li

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

192,251
citations

17776

65
h-index

29333

108
g-index

138
all docs

138
docs citations

138
times ranked

190857
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | The Sequence Alignment/Map format and SAMtools. <i>Bioinformatics</i> , 2009, 25, 2078-2079. | 1.8 | 49,124 |
| 2 | Fast and accurate short read alignment with Burrows-Wheeler transform. <i>Bioinformatics</i> , 2009, 25, 1754-1760. | 1.8 | 43,062 |
| 3 | A global reference for human genetic variation. <i>Nature</i> , 2015, 526, 68-74. | 13.7 | 13,998 |
| 4 | Fast and accurate long-read alignment with Burrows-Wheeler transform. <i>Bioinformatics</i> , 2010, 26, 589-595. | 1.8 | 10,002 |
| 5 | Minimap2: pairwise alignment for nucleotide sequences. <i>Bioinformatics</i> , 2018, 34, 3094-3100. | 1.8 | 7,764 |
| 6 | A map of human genome variation from population-scale sequencing. <i>Nature</i> , 2010, 467, 1061-1073. | 13.7 | 7,209 |
| 7 | An integrated map of genetic variation from 1,092 human genomes. <i>Nature</i> , 2012, 491, 56-65. | 13.7 | 7,199 |
| 8 | A statistical framework for SNP calling, mutation discovery, association mapping and population genetical parameter estimation from sequencing data. <i>Bioinformatics</i> , 2011, 27, 2987-2993. | 1.8 | 5,467 |
| 9 | Twelve years of SAMtools and BCFtools. <i>GigaScience</i> , 2021, 10, . | 3.3 | 4,546 |
| 10 | A Draft Sequence of the Neandertal Genome. <i>Science</i> , 2010, 328, 710-722. | 6.0 | 3,588 |
| 11 | Accurate whole human genome sequencing using reversible terminator chemistry. <i>Nature</i> , 2008, 456, 53-59. | 13.7 | 3,118 |
| 12 | Mapping short DNA sequencing reads and calling variants using mapping quality scores. <i>Genome Research</i> , 2008, 18, 1851-1858. | 2.4 | 2,275 |
| 13 | Inference of human population history from individual whole-genome sequences. <i>Nature</i> , 2011, 475, 493-496. | 13.7 | 2,053 |
| 14 | The complete genome sequence of a Neanderthal from the Altai Mountains. <i>Nature</i> , 2014, 505, 43-49. | 13.7 | 1,830 |
| 15 | A High-Coverage Genome Sequence from an Archaic Denisovan Individual. <i>Science</i> , 2012, 338, 222-226. | 6.0 | 1,695 |
| 16 | Haplotype-resolved de novo assembly using phased assembly graphs with hifiasm. <i>Nature Methods</i> , 2021, 18, 170-175. | 9.0 | 1,675 |
| 17 | Genetic history of an archaic hominin group from Denisova Cave in Siberia. <i>Nature</i> , 2010, 468, 1053-1060. | 13.7 | 1,537 |
| 18 | The complete sequence of a human genome. <i>Science</i> , 2022, 376, 44-53. | 6.0 | 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. | 13.7 | 1,216 |
| 20 | Ancient human genomes suggest three ancestral populations for present-day Europeans. <i>Nature</i> , 2014, 513, 409-413. | 13.7 | 1,179 |
| 21 | Minimap and miniasm: fast mapping and de novo assembly for noisy long sequences. <i>Bioinformatics</i> , 2016, 32, 2103-2110. | 1.8 | 1,082 |
| 22 | EnsemblCompara GeneTrees: Complete, duplication-aware phylogenetic trees in vertebrates. <i>Genome Research</i> , 2009, 19, 327-335. | 2.4 | 1,058 |
| 23 | The sequence and de novo assembly of the giant panda genome. <i>Nature</i> , 2010, 463, 311-317. | 13.7 | 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. | 9.4 | 1,010 |
| 25 | A Draft Sequence for the Genome of the Domesticated Silkworm (<i>Bombyx mori</i>). <i>Science</i> , 2004, 306, 1937-1940. | 6.0 | 994 |
| 26 | Fast and accurate long-read assembly with wtdbg2. <i>Nature Methods</i> , 2020, 17, 155-158. | 9.0 | 917 |
| 27 | Genome sequence of a 45,000-year-old modern human from western Siberia. <i>Nature</i> , 2014, 514, 445-449. | 13.7 | 856 |
| 28 | The diploid genome sequence of an Asian individual. <i>Nature</i> , 2008, 456, 60-65. | 13.7 | 834 |
| 29 | The Genomes of <i>Oryza sativa</i> : A History of Duplications. <i>PLoS Biology</i> , 2005, 3, e38. | 2.6 | 808 |
| 30 | Toward better understanding of artifacts in variant calling from high-coverage samples. <i>Bioinformatics</i> , 2014, 30, 2843-2851. | 1.8 | 790 |
| 31 | Great ape genetic diversity and population history. <i>Nature</i> , 2013, 499, 471-475. | 13.7 | 768 |
| 32 | A survey of sequence alignment algorithms for next-generation sequencing. <i>Briefings in Bioinformatics</i> , 2010, 11, 473-483. | 3.2 | 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. | 9.4 | 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. | 2.4 | 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. | 9.4 | 619 |

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|----|---|------|-----------|
| 37 | Tabix: fast retrieval of sequence features from generic TAB-delimited files. <i>Bioinformatics</i> , 2011, 27, 718-719. | 1.8 | 494 |
| 38 | TreeFam: a curated database of phylogenetic trees of animal gene families. <i>Nucleic Acids Research</i> , 2006, 34, D572-D580. | 6.5 | 465 |
| 39 | The Date of Interbreeding between Neandertals and Modern Humans. <i>PLoS Genetics</i> , 2012, 8, e1002947. | 1.5 | 402 |
| 40 | A genetic variation map for chicken with 2.8 million single-nucleotide polymorphisms. <i>Nature</i> , 2004, 432, 717-722. | 13.7 | 391 |
| 41 | Three-dimensional genome structures of single diploid human cells. <i>Science</i> , 2018, 361, 924-928. | 6.0 | 347 |
| 42 | Exploring single-sample SNP and INDEL calling with whole-genome <i>de novo</i> assembly. <i>Bioinformatics</i> , 2012, 28, 1838-1844. | 1.8 | 330 |
| 43 | Single-cell whole-genome analyses by Linear Amplification via Transposon Insertion (LIANTI). <i>Science</i> , 2017, 356, 189-194. | 6.0 | 303 |
| 44 | A direct characterization of human mutation based on microsatellites. <i>Nature Genetics</i> , 2012, 44, 1161-1165. | 9.4 | 302 |
| 45 | New strategies to improve minimap2 alignment accuracy. <i>Bioinformatics</i> , 2021, 37, 4572-4574. | 1.8 | 296 |
| 46 | TreeFam: 2008 Update. <i>Nucleic Acids Research</i> , 2007, 36, D735-D740. | 6.5 | 294 |
| 47 | Improving SNP discovery by base alignment quality. <i>Bioinformatics</i> , 2011, 27, 1157-1158. | 1.8 | 275 |
| 48 | Complete Genomes Reveal Signatures of Demographic and Genetic Declines in the Woolly Mammoth. <i>Current Biology</i> , 2015, 25, 1395-1400. | 1.8 | 263 |
| 49 | Extremely low-coverage sequencing and imputation increases power for genome-wide association studies. <i>Nature Genetics</i> , 2012, 44, 631-635. | 9.4 | 239 |
| 50 | The design and construction of reference pangenome graphs with minigraph. <i>Genome Biology</i> , 2020, 21, 265. | 3.8 | 195 |
| 51 | The Human Pangenome Project: a global resource to map genomic diversity. <i>Nature</i> , 2022, 604, 437-446. | 13.7 | 192 |
| 52 | HTSlib: C library for reading/writing high-throughput sequencing data. <i>GigaScience</i> , 2021, 10, . | 3.3 | 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. | 9.4 | 182 |
| 54 | BFC: correcting Illumina sequencing errors. <i>Bioinformatics</i> , 2015, 31, 2885-2887. | 1.8 | 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. | 5.8 | 166 |
| 56 | pIRS: Profile-based Illumina pair-end reads simulator. <i>Bioinformatics</i> , 2012, 28, 1533-1535. | 1.8 | 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. | 1.4 | 157 |
| 58 | A synthetic-diploid benchmark for accurate variant-calling evaluation. <i>Nature Methods</i> , 2018, 15, 595-597. | 9.0 | 154 |
| 59 | Targeting a cytokine checkpoint enhances the fitness of armored cord blood CAR-NK cells. <i>Blood</i> , 2021, 137, 624-636. | 0.6 | 147 |
| 60 | The contribution of rare variation to prostate cancer heritability. <i>Nature Genetics</i> , 2016, 48, 30-35. | 9.4 | 139 |
| 61 | Haplotype-resolved assembly of diploid genomes without parental data. <i>Nature Biotechnology</i> , 2022, 40, 1332-1335. | 9.4 | 139 |
| 62 | Neutral evolution of "non-coding" complementary DNAs. <i>Nature</i> , 2004, 431, 1-2. | 13.7 | 127 |
| 63 | SOAPindel: Efficient identification of indels from short paired reads. <i>Genome Research</i> , 2013, 23, 195-200. | 2.4 | 115 |
| 64 | Chromosome-scale, haplotype-resolved assembly of human genomes. <i>Nature Biotechnology</i> , 2021, 39, 309-312. | 9.4 | 109 |
| 65 | A cohort autopsy study defines COVID-19 systemic pathogenesis. <i>Cell Research</i> , 2021, 31, 836-846. | 5.7 | 93 |
| 66 | FermiKit: assembly-based variant calling for Illumina resequencing data. <i>Bioinformatics</i> , 2015, 31, 3694-3696. | 1.8 | 92 |
| 67 | Curated variation benchmarks for challenging medically relevant autosomal genes. <i>Nature Biotechnology</i> , 2022, 40, 672-680. | 9.4 | 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. | 3.3 | 75 |
| 69 | Pyroptotic macrophages stimulate the SARS-CoV-2-associated cytokine storm. <i>Cellular and Molecular Immunology</i> , 2021, 18, 1305-1307. | 4.8 | 74 |
| 70 | Differential DNA methylation of vocal and facial anatomy genes in modern humans. <i>Nature Communications</i> , 2020, 11, 1189. | 5.8 | 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. | 13.9 | 67 |
| 72 | An Accurate and Comprehensive Clinical Sequencing Assay for Cancer Targeted and Immunotherapies. <i>Oncologist</i> , 2019, 24, e1294-e1302. | 1.9 | 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. | 9.4 | 61 |
| 74 | Fast construction of FM-index for long sequence reads. <i>Bioinformatics</i> , 2014, 30, 3274-3275. | 1.8 | 56 |
| 75 | Metagenome assembly of high-fidelity long reads with hifiasm-meta. <i>Nature Methods</i> , 2022, 19, 671-674. | 9.0 | 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. | 4.6 | 52 |
| 77 | BGT: efficient and flexible genotype query across many samples. <i>Bioinformatics</i> , 2016, 32, 590-592. | 1.8 | 46 |
| 78 | Comprehensive identification of transposable element insertions using multiple sequencing technologies. <i>Nature Communications</i> , 2021, 12, 3836. | 5.8 | 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, . | 3.3 | 41 |
| 80 | Real-time mapping of nanopore raw signals. <i>Bioinformatics</i> , 2021, 37, i477-i483. | 1.8 | 41 |
| 81 | Detecting SNPs and estimating allele frequencies in clonal bacterial populations by sequencing pooled DNA. <i>Bioinformatics</i> , 2009, 25, 2074-2075. | 1.8 | 40 |
| 82 | Fast alignment and preprocessing of chromatin profiles with Chromap. <i>Nature Communications</i> , 2021, 12, 6566. | 5.8 | 39 |
| 83 | Snap: an integrated SNP annotation platform. <i>Nucleic Acids Research</i> , 2007, 35, D707-D710. | 6.5 | 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. | 13.9 | 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. | 2.6 | 36 |
| 86 | Worldwide genetic variation of the IGHV and TRBV immune receptor gene families in humans. <i>Life Science Alliance</i> , 2019, 2, e201800221. | 1.3 | 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. | 3.3 | 28 |
| 88 | Omics-based profiling of carcinoma of the breast and matched regional lymph node metastasis. <i>Proteomics</i> , 2008, 8, 5038-5052. | 1.3 | 26 |
| 89 | The anatomy of successful computational biology software. <i>Nature Biotechnology</i> , 2013, 31, 894-897. | 9.4 | 25 |
| 90 | htsget: a protocol for securely streaming genomic data. <i>Bioinformatics</i> , 2019, 35, 119-121. | 1.8 | 23 |

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|-----|---|-----|-----------|
| 91 | Identifying centromeric satellites with dna-brnn. <i>Bioinformatics</i> , 2019, 35, 4408-4410. | 1.8 | 22 |
| 92 | A haplotype-aware <i>de novo</i> assembly of related individuals using pedigree sequence graph. <i>Bioinformatics</i> , 2020, 36, 2385-2392. | 1.8 | 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. | 1.8 | 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. | 5.8 | 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. | 0.9 | 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. | 3.5 | 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. | 1.2 | 12 |
| 99 | The distinct clinicopathological and prognostic implications of PIK3CA mutations in breast cancer patients from Central China. <i>Cancer Management and Research</i> , 2019, Volume 11, 1473-1492. | 0.9 | 10 |
| 100 | Comprehensive Characterizations of Immune Receptor Repertoire in Tumors and Cancer Immunotherapy Studies. <i>Cancer Immunology Research</i> , 2022, 10, 788-799. | 1.6 | 10 |
| 101 | PigGIS: Pig Genomic Informatics System. <i>Nucleic Acids Research</i> , 2007, 35, D654-D657. | 6.5 | 9 |
| 102 | Evolutionary Transients in the Rice Transcriptome. <i>Genomics, Proteomics and Bioinformatics</i> , 2010, 8, 211-228. | 3.0 | 9 |
| 103 | Bedtk: finding interval overlap with implicit interval tree. <i>Bioinformatics</i> , 2021, 37, 1315-1316. | 1.8 | 5 |
| 104 | Haplotype-resolved germline and somatic alterations in renal medullary carcinomas. <i>Genome Medicine</i> , 2021, 13, 114. | 3.6 | 5 |
| 105 | CoLoRd: compressing long reads. <i>Nature Methods</i> , 2022, 19, 441-444. | 9.0 | 5 |
| 106 | A cross-species alignment tool (CAT). <i>BMC Bioinformatics</i> , 2007, 8, 349. | 1.2 | 4 |
| 107 | Vasculogenic Mimicry Formation Predicts Tumor Progression in Oligodendroglioma. <i>Pathology and Oncology Research</i> , 2021, 27, 1609844. | 0.9 | 2 |
| 108 | Aberrant expression of thyroid transcription factor-1 in meningeal solitary fibrous tumor/hemangiopericytoma. <i>Brain Tumor Pathology</i> , 2021, 38, 122-131. | 1.1 | 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. | 0.9 | 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. | 0.8 | 0 |