

Ruibang Luo

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

35,268
citations

236925

25
h-index

149698

56
g-index

85
all docs

85
docs citations

85
times ranked

61371
citing authors

#	ARTICLE	IF	CITATIONS
1	A global reference for human genetic variation. <i>Nature</i> , 2015, 526, 68-74.	27.8	13,998
2	MEGAHIT: an ultra-fast single-node solution for large and complex metagenomics assembly via succinct <i>de Bruijn</i> graph. <i>Bioinformatics</i> , 2015, 31, 1674-1676.	4.1	4,864
3	SOAPdenovo2: an empirically improved memory-efficient short-read <i>de novo</i> assembler. <i>GigaScience</i> , 2012, 1, 18.	6.4	4,510
4	International network of cancer genome projects. <i>Nature</i> , 2010, 464, 993-998.	27.8	2,114
5	The oyster genome reveals stress adaptation and complexity of shell formation. <i>Nature</i> , 2012, 490, 49-54.	27.8	1,966
6	Sequencing of 50 Human Exomes Reveals Adaptation to High Altitude. <i>Science</i> , 2010, 329, 75-78.	12.6	1,339
7	MEGAHIT v1.0: A fast and scalable metagenome assembler driven by advanced methodologies and community practices. <i>Methods</i> , 2016, 102, 3-11.	3.8	1,174
8	Mapping copy number variation by population-scale genome sequencing. <i>Nature</i> , 2011, 470, 59-65.	27.8	991
9	SOAPdenovo-Trans: <i>de novo</i> transcriptome assembly with short RNA-Seq reads. <i>Bioinformatics</i> , 2014, 30, 1660-1666.	4.1	826
10	Assemblathon 2: evaluating <i>de novo</i> methods of genome assembly in three vertebrate species. <i>GigaScience</i> , 2013, 2, 10.	6.4	582
11	Assemblathon 1: A competitive assessment of <i>de novo</i> short read assembly methods. <i>Genome Research</i> , 2011, 21, 2224-2241.	5.5	443
12	The DNA Methylome of Human Peripheral Blood Mononuclear Cells. <i>PLoS Biology</i> , 2010, 8, e1000533.	5.6	290
13	Single-base resolution maps of cultivated and wild rice methylomes and regulatory roles of DNA methylation in plant gene expression. <i>BMC Genomics</i> , 2012, 13, 300.	2.8	266
14	Building the sequence map of the human pan-genome. <i>Nature Biotechnology</i> , 2010, 28, 57-63.	17.5	237
15	SOAP3: ultra-fast GPU-based parallel alignment tool for short reads. <i>Bioinformatics</i> , 2012, 28, 878-879.	4.1	200
16	COPE: an accurate <i>k</i> -mer-based pair-end reads connection tool to facilitate genome assembly. <i>Bioinformatics</i> , 2012, 28, 2870-2874.	4.1	145
17	Genome-Wide Mapping of Structural Variations Reveals a Copy Number Variant That Determines Reproductive Morphology in Cucumber. <i>Plant Cell</i> , 2015, 27, 1595-1604.	6.6	125
18	Structural variation in two human genomes mapped at single-nucleotide resolution by whole genome <i>de novo</i> assembly. <i>Nature Biotechnology</i> , 2011, 29, 723-730.	17.5	113

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19	SOAP3-dp: Fast, Accurate and Sensitive GPU-Based Short Read Aligner. PLoS ONE, 2013, 8, e65632.	2.5	104
20	A multi-task convolutional deep neural network for variant calling in single molecule sequencing. Nature Communications, 2019, 10, 998.	12.8	102
21	Exploring the limit of using a deep neural network on pileup data for germline variant calling. Nature Machine Intelligence, 2020, 2, 220-227.	16.0	87
22	De novo assembly of a haplotype-resolved human genome. Nature Biotechnology, 2015, 33, 617-622.	17.5	73
23	RENET: A Deep Learning Approach for Extracting Gene-Disease Associations from Literature. Lecture Notes in Computer Science, 2019, , 272-284.	1.3	45
24	LRSim: A Linked-Reads Simulator Generating Insights for Better Genome Partitioning. Computational and Structural Biotechnology Journal, 2017, 15, 478-484.	4.1	42
25	Distinct Disease Severity Between Children and Older Adults With Coronavirus Disease 2019 (COVID-19): Impacts of ACE2 Expression, Distribution, and Lung Progenitor Cells. Clinical Infectious Diseases, 2021, 73, e4154-e4165.	5.8	42
26	<scp>SARSâ€CoV</scp>â€™2 biology and variants: anticipation of viral evolution and what needs to be done. Environmental Microbiology, 2021, 23, 2339-2363.	3.8	30
27	High-quality bacterial genomes of a partial-nitritation/anammox system by an iterative hybrid assembly method. Microbiome, 2020, 8, 155.	11.1	29
28	Generalized radiograph representation learning via cross-supervision between images and free-text radiology reports. Nature Machine Intelligence, 2022, 4, 32-40.	16.0	29
29	From Peer-Reviewed to Peer-Reproduced in Scholarly Publishing: The Complementary Roles of Data Models and Workflows in Bioinformatics. PLoS ONE, 2015, 10, e0127612.	2.5	27
30	FaSD-somatic: a fast and accurate somatic SNV detection algorithm for cancer genome sequencing data. Bioinformatics, 2014, 30, 2498-2500.	4.1	18
31	BALSA: integrated secondary analysis for whole-genome and whole-exome sequencing, accelerated by GPU. PeerJ, 2014, 2, e421.	2.0	16
32	Applications and potentials of nanopore sequencing in the (epi)genome and (epi)transcriptome era. Innovation(China), 2021, 2, 100153.	9.1	15
33	MICA: A fast short-read aligner that takes full advantage of Many Integrated Core Architecture (MIC). BMC Bioinformatics, 2015, 16, S10.	2.6	14
34	Clinical analysis and pluripotent stem cells-based model reveal possible impacts of ACE2 and lung progenitor cells on infants vulnerable to COVID-19. Theranostics, 2021, 11, 2170-2181.	10.0	14
35	Serine peptidase inhibitor Kazal type 1 (SPINK1) as novel downstream effector of the cadherin-17/ β -catenin axis in hepatocellular carcinoma. Cellular Oncology (Dordrecht), 2017, 40, 443-456.	4.4	13
36	Building a Chinese pan-genome of 486 individuals. Communications Biology, 2021, 4, 1016.	4.4	13

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37	16GT: a fast and sensitive variant caller using a 16-genotype probabilistic model. <i>GigaScience</i> , 2017, 6, 1-4.	6.4	11
38	First Draft Genome Sequence of the Pathogenic Fungus <i>Lomentospora prolificans</i> (Formerly) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	1.8	11
39	MegaGTA: a sensitive and accurate metagenomic gene-targeted assembler using iterative de Bruijn graphs. <i>BMC Bioinformatics</i> , 2017, 18, 408.	2.6	11
40	database.bio: a web application for interpreting human variations. <i>Bioinformatics</i> , 2015, 31, 4035-4037.	4.1	9
41	AC-DIAMOND v1: accelerating large-scale DNA-protein alignment. <i>Bioinformatics</i> , 2018, 34, 3744-3746.	4.1	8
42	Identification of Cooperative Gene Regulation Among Transcription Factors, LncRNAs, and MicroRNAs in Diabetic Nephropathy Progression. <i>Frontiers in Genetics</i> , 2020, 11, 1008.	2.3	8
43	ECNano: A cost-effective workflow for target enrichment sequencing and accurate variant calling on 4800 clinically significant genes using a single MinION flowcell. <i>BMC Medical Genomics</i> , 2022, 15, 43.	1.5	7
44	BASE: a practical de novo assembler for large genomes using long NGS reads. <i>BMC Genomics</i> , 2016, 17, 499.	2.8	6
45	MegaPath: sensitive and rapid pathogen detection using metagenomic NGS data. <i>BMC Genomics</i> , 2020, 21, 500.	2.8	6
46	Transcriptome Analysis of Acute Phase Liver Graft Injury in Liver Transplantation. <i>Biomedicines</i> , 2018, 6, 41.	3.2	5
47	CONNET: Accurate Genome Consensus in Assembling Nanopore Sequencing Data via Deep Learning. <i>IScience</i> , 2020, 23, 101128.	4.1	5
48	Detecting structural variations with precise breakpoints using low-depth WGS data from a single oxford nanopore MinION flowcell. <i>Scientific Reports</i> , 2022, 12, 4519.	3.3	5
49	MC-Explorer: Analyzing and Visualizing Motif-Cliques on Large Networks. , 2020, , .		4
50	RENET2: high-performance full-text gene-disease relation extraction with iterative training data expansion. <i>NAR Genomics and Bioinformatics</i> , 2021, 3, lqab062.	3.2	4
51	ChromSeg: Two-Stage Framework for Overlapping Chromosome Segmentation and Reconstruction. , 2020, , .		4
52	Archaeology Augments Tibet's Genetic History's Response. <i>Science</i> , 2010, 329, 1467-1468.	12.6	3
53	High Prevalence and Mechanism Associated With Extended Spectrum Beta-Lactamase-Positive Phenotype in <i>Laribacter hongkongensis</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 618894.	3.5	3
54	Whole Genome Sequencing On Donor Cell Leukemia in a Patient with Multiple Myeloma Identified Gene Mutations That May Provide Insights to Leukemogenesis.. <i>Blood</i> , 2012, 120, 2414-2414.	1.4	3

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55	Skyhawk: an artificial neural network-based discriminator for reviewing clinically significant genomic variants. <i>International Journal of Computational Biology and Drug Design</i> , 2020, 13, 431.	0.3	2
56	HKG: an open genetic variant database of 205 Hong Kong cantonese exomes. <i>NAR Genomics and Bioinformatics</i> , 2022, 4, lqac005.	3.2	2
57	AC-DIAMOND: Accelerating Protein Alignment via Better SIMD Parallelization and Space-Efficient Indexing. <i>Lecture Notes in Computer Science</i> , 2016, , 426-433.	1.3	1
58	Temporal Control of the WNT Signaling Pathway During Cardiac Differentiation Impacts Upon the Maturation State of Human Pluripotent Stem Cell Derived Cardiomyocytes. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 714008.	3.5	1
59	Same-Cell Co-Occurrence of RAS Hotspot and BRAF V600E Mutations in Treatment-Naive Colorectal Cancer. <i>JCO Precision Oncology</i> , 2022, 6, e2100365.	3.0	1
60	Efficient SNP-sensitive alignment and database-assisted SNP calling for low coverage samples. , 2012, , .		0
61	MegaPath: Low-Similarity Pathogen Detection from Metagenomic NGS Data (Extended Abstract). , 2018, , .		0
62	Abstract 4269: Exome sequencing of tumor cell lines: Optimizing for cancer variants. , 2014, , .		0
63	MegaPath-Nano: Accurate Compositional Analysis and Drug-level Antimicrobial Resistance Detection Software for Oxford Nanopore Long-read Metagenomics. , 2020, , .		0
64	Translocator. , 2020, , .		0