

Shuai Cheng Li

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.

148
papers

2,498
citations

22
h-index

46
g-index

184
ext. papers

3,420
ext. citations

5.7
avg, IF

4.68
L-index

#	Paper	IF	Citations
148	Over-shedding of donor-derived cell-free DNA at immune-related regions into plasma of lung transplant recipient.. <i>Clinical and Translational Medicine</i> , 2022 , 12, e622	5.7	
147	Both simulation and sequencing data reveal coinfections with multiple SARS-CoV-2 variants in the COVID-19 pandemic.. <i>Computational and Structural Biotechnology Journal</i> , 2022 , 20, 1389-1401	6.8	0
146	Microbiome Resilience and Health Implications for People in Half-Year Travel.. <i>Frontiers in Immunology</i> , 2022 , 13, 848994	8.4	1
145	Dynamic changes of gut microbiota and hepatic functions are different among biliary atresia patients after Kasai portoenterostomy.. <i>Clinical and Translational Medicine</i> , 2022 , 12, e728	5.7	
144	The Tibetan-Yi region is both a corridor and a barrier for human gene flow.. <i>Cell Reports</i> , 2022 , 39, 110720	10.6	0
143	Periodontal and Peri-Implant Microbiome Dysbiosis Is Associated With Alterations in the Microbial Community Structure and Local Stability.. <i>Frontiers in Microbiology</i> , 2021 , 12, 785191	5.7	2
142	Altered metabolome and microbiome features provide clues in understanding irritable bowel syndrome and depression comorbidity. <i>ISME Journal</i> , 2021 ,	11.9	4
141	SCYN: single cell CNV profiling method using dynamic programming. <i>BMC Genomics</i> , 2021 , 22, 651	4.5	
140	Alteration of the respiratory microbiome in COVID-19 patients with different severities. <i>Journal of Genetics and Genomics</i> , 2021 ,	4	3
139	The genome variation and developmental transcriptome maps reveal genetic differentiation of skeletal muscle in pigs. <i>PLoS Genetics</i> , 2021 , 17, e1009910	6	2
138	Functional organization of the maternal and paternal human 4D Nucleome. <i>IScience</i> , 2021 , 24, 103452	6.1	4
137	Somatic variant analysis suite: copy number variation clonal visualization online platform for large-scale single-cell genomics. <i>Briefings in Bioinformatics</i> , 2021 ,	13.4	3
136	Longitudinal virological changes and underlying pathogenesis in hospitalized COVID-19 patients in Guangzhou, China. <i>Science China Life Sciences</i> , 2021 , 1	8.5	2
135	Deep learning model reveals potential risk genes for ADHD, especially Ephrin receptor gene EPHA5. <i>Briefings in Bioinformatics</i> , 2021 , 22,	13.4	3
134	Cervicovaginal Microbiome Factors in Clearance of Human Papillomavirus Infection. <i>Frontiers in Oncology</i> , 2021 , 11, 722639	5.3	1
133	Limits to the cellular control of sequestered cryptophyte prey in the marine ciliate <i>Mesodinium rubrum</i> . <i>ISME Journal</i> , 2021 , 15, 1056-1072	11.9	5
132	SuperTAD: robust detection of hierarchical topologically associated domains with optimized structural information. <i>Genome Biology</i> , 2021 , 22, 45	18.3	1

131	Altered nitric oxide induced by gut microbiota reveals the connection between central precocious puberty and obesity. <i>Clinical and Translational Medicine</i> , 2021 , 11, e299	5.7	2
130	Development and validation of an online model to predict critical COVID-19 with immune-inflammatory parameters. <i>Journal of Intensive Care</i> , 2021 , 9, 19	7	3
129	Transcriptome Atlas of 16 Donkey Tissues. <i>Frontiers in Genetics</i> , 2021 , 12, 682734	4.5	2
128	SpecHap: a diploid phasing algorithm based on spectral graph theory. <i>Nucleic Acids Research</i> , 2021 , 49, e114	20.1	1
127	Whole-genome sequencing identifies novel candidate pathogenic variants associated with left ventricular non-compaction in a three-generation family. <i>Clinical and Translational Medicine</i> , 2021 , 11, e501	5.7	
126	Differential perturbations of gut microbial profiles and co-occurrence networks among phases of methamphetamine-induced conditioned place preference. <i>Journal of Neuroscience Research</i> , 2021 , 99, 2860-2873	4.4	2
125	Heterogeneity of immune microenvironment in ovarian cancer and its clinical significance: a retrospective study. <i>Oncotarget</i> , 2020 , 9, 1760067	7.2	15
124	Oviz-Bio: a web-based platform for interactive cancer genomics data visualization. <i>Nucleic Acids Research</i> , 2020 , 48, W415-W426	20.1	2
123	Establishing high-accuracy biomarkers for colorectal cancer by comparing fecal microbiomes in patients with healthy families. <i>Gut Microbes</i> , 2020 , 11, 918-929	8.8	14
122	Different nasopharynx and oropharynx microbiota imbalance in children with Mycoplasma pneumoniae or influenza virus infection. <i>Microbial Pathogenesis</i> , 2020 , 144, 104189	3.8	1
121	LDscaff: LD-based scaffolding of de novo genome assemblies. <i>BMC Bioinformatics</i> , 2020 , 21, 570	3.6	2
120	Deep learning for HGT insertion sites recognition. <i>BMC Genomics</i> , 2020 , 21, 893	4.5	1
119	Understanding Horizontal Gene Transfer network in human gut microbiota. <i>Gut Pathogens</i> , 2020 , 12, 33	5.4	5
118	I-Impute: a self-consistent method to impute single cell RNA sequencing data. <i>BMC Genomics</i> , 2020 , 21, 618	4.5	0
117	Breastfeeding restored the gut microbiota in caesarean section infants and lowered the infection risk in early life. <i>BMC Pediatrics</i> , 2020 , 20, 532	2.6	3
116	Donkey genomes provide new insights into domestication and selection for coat color. <i>Nature Communications</i> , 2020 , 11, 6014	17.4	15
115	A comprehensive investigation of metagenome assembly by linked-read sequencing. <i>Microbiome</i> , 2020 , 8, 156	16.6	4
114	Distinct Skin Microbiota Imbalance and Responses to Clinical Treatment in Children With Atopic Dermatitis. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020 , 10, 336	5.9	3

113	CIRPMC: An online model with simplified inflammatory signature to predict the occurrence of critical illness in patients with COVID-19. <i>Clinical and Translational Medicine</i> , 2020 , 10, e210	5.7	1
112	Is antibiotics prescription needed in infants with topical corticosteroids treatment for moderate-to-severe atopic dermatitis?. <i>Dermatologic Therapy</i> , 2020 , 33, e14215	2.2	1
111	PSTrain: An Iterative Microbial Strains Profiling Algorithm for Shotgun Metagenomic Sequencing Data. <i>Bioinformatics</i> , 2020 ,	7.2	4
110	Distinct Gut Microbiota Composition and Functional Category in Children With Cerebral Palsy and Epilepsy. <i>Frontiers in Pediatrics</i> , 2019 , 7, 394	3.4	22
109	Discrepant gut microbiota markers for the classification of obesity-related metabolic abnormalities. <i>Scientific Reports</i> , 2019 , 9, 13424	4.9	99
108	Genome-Wide Investigation and Functional Analysis of RNA Editing Sites across Eleven Tissues. <i>Genes</i> , 2019 , 10,	4.2	8
107	Large-scale 3D chromatin reconstruction from chromosomal contacts. <i>BMC Genomics</i> , 2019 , 20, 186	4.5	4
106	An integrated respiratory microbial gene catalogue to better understand the microbial aetiology of <i>Mycoplasma pneumoniae</i> pneumonia. <i>GigaScience</i> , 2019 , 8,	7.6	6
105	Lung Microbiota and Pulmonary Inflammatory Cytokines Expression Vary in Children With Tracheomalacia and Adenoviral or Pneumonia. <i>Frontiers in Pediatrics</i> , 2019 , 7, 265	3.4	9
104	SCDevDB: A Database for Insights Into Single-Cell Gene Expression Profiles During Human Developmental Processes. <i>Frontiers in Genetics</i> , 2019 , 10, 903	4.5	7
103	D-GPM: A Deep Learning Method for Gene Promoter Methylation Inference. <i>Genes</i> , 2019 , 10,	4.2	5
102	DNA Methylation Markers for Pan-Cancer Prediction by Deep Learning. <i>Genes</i> , 2019 , 10,	4.2	19
101	A draft genome assembly of the solar-powered sea slug <i>Elysia chlorotica</i> . <i>Scientific Data</i> , 2019 , 6, 190023.2	3.2	30
100	Analysis and comparison of long non-coding RNAs expressed in the ovaries of Meishan and Yorkshire pigs. <i>Animal Genetics</i> , 2019 , 50, 660-669	2.5	3
99	LysoPhD: predicting functional prophages in bacterial genomes from high-throughput sequencing 2019 ,		3
98	LEMON: a method to construct the local strains at horizontal gene transfer sites in gut metagenomics. <i>BMC Bioinformatics</i> , 2019 , 20, 702	3.6	5
97	Intestinal sp. Imbalance Associated With the Occurrence of Childhood Undernutrition in China. <i>Frontiers in Microbiology</i> , 2019 , 10, 2635	5.7	4
96	MIRIA: a webserver for statistical, visual and meta-analysis of RNA editing data in mammals. <i>BMC Bioinformatics</i> , 2019 , 20, 596	3.6	1

95	A unified STR profiling system across multiple species with whole genome sequencing data. <i>BMC Bioinformatics</i> , 2019 , 20, 671	3.6	1
94	DeepMF: deciphering the latent patterns in omics profiles with a deep learning method. <i>BMC Bioinformatics</i> , 2019 , 20, 648	3.6	6
93	SpliceFinder: ab initio prediction of splice sites using convolutional neural network. <i>BMC Bioinformatics</i> , 2019 , 20, 652	3.6	17
92	Resilience of human gut microbial communities for the long stay with multiple dietary shifts. <i>Gut</i> , 2019 , 68, 2254-2255	19.2	28
91	Population genomics of finless porpoises reveal an incipient cetacean species adapted to freshwater. <i>Nature Communications</i> , 2018 , 9, 1276	17.4	37
90	KDiamend: a package for detecting key drivers in a molecular ecological network of disease. <i>BMC Systems Biology</i> , 2018 , 12, 5	3.5	1
89	NGS-based likelihood ratio for identifying contributors in two- and three-person DNA mixtures. <i>Computational Biology and Chemistry</i> , 2018 , 74, 428-433	3.6	1
88	Microbiota Composition in Upper Respiratory Tracts of Healthy Children in Shenzhen, China, Differed with Respiratory Sites and Ages. <i>BioMed Research International</i> , 2018 , 2018, 6515670	3	20
87	Placing Segments on Parallel Arcs. <i>Lecture Notes in Computer Science</i> , 2018 , 298-310	0.9	
86	In silico design of MHC class I high binding affinity peptides through motifs activation map. <i>BMC Bioinformatics</i> , 2018 , 19, 516	3.6	6
85	Origin and evolution of qingke barley in Tibet. <i>Nature Communications</i> , 2018 , 9, 5433	17.4	65
84	Alterations of Gut Microbiota in Cholestatic Infants and Their Correlation With Hepatic Function. <i>Frontiers in Microbiology</i> , 2018 , 9, 2682	5.7	19
83	Coding mutations in contribute to Parkinson's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 11567-11572	11.5	50
82	The concordance between upper and lower respiratory microbiota in children with Mycoplasma pneumoniae pneumonia. <i>Emerging Microbes and Infections</i> , 2018 , 7, 92	18.9	14
81	Genome of the pitcher plant <i>Cephalotus</i> reveals genetic changes associated with carnivory. <i>Nature Ecology and Evolution</i> , 2017 , 1, 59	12.3	61
80	Search for More Effective Microsatellite Markers for Forensics With Next-Generation Sequencing. <i>IEEE Transactions on Nanobioscience</i> , 2017 , 16, 375-381	3.4	0
79	The Alteration of Nasopharyngeal and Oropharyngeal Microbiota in Children with MPP and Non-MPP. <i>Genes</i> , 2017 , 8,	4.2	7
78	Improving protein fold recognition by extracting fold-specific features from predicted residue-residue contacts. <i>Bioinformatics</i> , 2017 , 33, 3749-3757	7.2	31

77	Dynamic oropharyngeal and faecal microbiota during treatment in infants hospitalized for bronchiolitis compared with age-matched healthy subjects. <i>Scientific Reports</i> , 2017 , 7, 11266	4.9	4
76	The SNP-set based association study identifies ITGA1 as a susceptibility gene of attention-deficit/hyperactivity disorder in Han Chinese. <i>Translational Psychiatry</i> , 2017 , 7, e1201	8.6	6
75	Core-genome scaffold comparison reveals the prevalence that inversion events are associated with pairs of inverted repeats. <i>BMC Genomics</i> , 2017 , 18, 268	4.5	5
74	Identification of MicroRNA Targets of spp. Using MiRTrans-a Trans-Omics Approach. <i>Frontiers in Plant Science</i> , 2017 , 8, 495	6.2	3
73	FALCON@home: a high-throughput protein structure prediction server based on remote homologue recognition. <i>Bioinformatics</i> , 2016 , 32, 462-4	7.2	25
72	A comprehensive characterization of simple sequence repeats in pepper genomes provides valuable resources for marker development in Capsicum. <i>Scientific Reports</i> , 2016 , 6, 18919	4.9	43
71	Insights into the transmission of respiratory infectious diseases through empirical human contact networks. <i>Scientific Reports</i> , 2016 , 6, 31484	4.9	13
70	Reconstructing directed gene regulatory network by only gene expression data. <i>BMC Genomics</i> , 2016 , 17 Suppl 4, 430	4.5	10
69	Protein-protein interface prediction based on hexagon structure similarity. <i>Computational Biology and Chemistry</i> , 2016 , 63, 83-88	3.6	13
68	Whole-Genome Sequencing Reveals Diverse Models of Structural Variations in Esophageal Squamous Cell Carcinoma. <i>American Journal of Human Genetics</i> , 2016 , 98, 256-74	11	87
67	Mycoplasma pneumoniae and Streptococcus pneumoniae caused different microbial structure and correlation network in lung microbiota. <i>Journal of Thoracic Disease</i> , 2016 , 8, 1316-22	2.6	16
66	More accurate models for detecting gene-gene interactions from public expression compendia 2016 ,		1
65	Improving residue-residue contact prediction via low-rank and sparse decomposition of residue correlation matrix. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 472, 217-22	3.4	16
64	Genome-wide profiling of HPV integration in cervical cancer identifies clustered genomic hot spots and a potential microhomology-mediated integration mechanism. <i>Nature Genetics</i> , 2015 , 47, 158-63	36.3	264
63	Parameterized BLOSUM Matrices for Protein Alignment. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2015 , 12, 686-94	3	10
62	Outbred genome sequencing and CRISPR/Cas9 gene editing in butterflies. <i>Nature Communications</i> , 2015 , 6, 8212	17.4	111
61	Identification of Glycopeptides with Multiple Hydroxylysine O-Glycosylation Sites by Tandem Mass Spectrometry. <i>Journal of Proteome Research</i> , 2015 , 14, 5099-108	5.6	8
60	Finding All Longest Common Segments in Protein Structures Efficiently. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2015 , 12, 644-55	3	1

59	Structural neighboring property for identifying protein-protein binding sites. <i>BMC Systems Biology</i> , 2015 , 9 Suppl 5, S3	3.5	5
58	Compare local pocket and global protein structure models by small structure patterns 2015 ,		3
57	On the Near-Linear Correlation of the Eigenvalues Across BLOSUM Matrices. <i>Lecture Notes in Computer Science</i> , 2015 , 199-210	0.9	
56	Spectral probabilities of top-down tandem mass spectra. <i>BMC Genomics</i> , 2014 , 15 Suppl 1, S9	4.5	12
55	Probabilistic models for capturing more physicochemical properties on protein-protein interface. <i>Journal of Chemical Information and Modeling</i> , 2014 , 54, 1798-809	6.1	13
54	Quantifying Significance of MHC II Residues. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2014 , 11, 17-25	3	
53	Residue-Specific Side-Chain Polymorphisms via Particle Belief Propagation. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2014 , 11, 33-41	3	2
52	Genome-wide adaptive complexes to underground stresses in blind mole rats Spalax. <i>Nature Communications</i> , 2014 , 5, 3966	17.4	101
51	Whole-genome sequencing of cultivated and wild peppers provides insights into Capsicum domestication and specialization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 5135-40	11.5	466
50	MHC binding prediction with KernelRLSpan and its variations. <i>Journal of Immunological Methods</i> , 2014 , 406, 10-20	2.5	8
49	Fingerprinting protein structures effectively and efficiently. <i>Bioinformatics</i> , 2014 , 30, 949-55	7.2	5
48	Protein Structure Idealization: How accurately is it possible to model protein structures with dihedral angles?. <i>Algorithms for Molecular Biology</i> , 2013 , 8, 5	1.8	1
47	The difficulty of protein structure alignment under the RMSD. <i>Algorithms for Molecular Biology</i> , 2013 , 8, 1	1.8	19
46	LoopWeaver: loop modeling by the weighted scaling of verified proteins. <i>Journal of Computational Biology</i> , 2013 , 20, 212-23	1.7	13
45	Detecting protein conformational changes in interactions via scaling known structures. <i>Journal of Computational Biology</i> , 2013 , 20, 765-79	1.7	7
44	Towards Reliable Automatic Protein Structure Alignment. <i>Lecture Notes in Computer Science</i> , 2013 , 18-32.	0.9	5
43	Detecting Protein Conformational Changes in Interactions via Scaling Known Structures. <i>Lecture Notes in Computer Science</i> , 2013 , 58-74	0.9	2
42	Protein-protein binding site identification by enumerating the configurations. <i>BMC Bioinformatics</i> , 2012 , 13, 158	3.6	33

41	Residues with similar hexagon neighborhoods share similar side-chain conformations. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2012 , 9, 240-8	3	2
40	Evaporation of droplets on superhydrophobic surfaces: surface roughness and small droplet size effects. <i>Physical Review Letters</i> , 2012 , 109, 116101	7.4	137
39	Publisher's Note: Evaporation of Droplets on Superhydrophobic Surfaces: Surface Roughness and Small Droplet Size Effects [Phys. Rev. Lett. 109, 116101 (2012)]. <i>Physical Review Letters</i> , 2012 , 109,	7.4	6
38	Clustering 100,000 protein structure decoys in minutes. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2012 , 9, 765-73	3	7
37	LoopWeaver II Loop Modeling by the Weighted Scaling of Verified Proteins. <i>Lecture Notes in Computer Science</i> , 2012 , 113-126	0.9	2
36	P-Binder: A System for the Protein-Protein Binding Sites Identification. <i>Lecture Notes in Computer Science</i> , 2012 , 127-138	0.9	6
35	How Accurately Can We Model Protein Structures with Dihedral Angles?. <i>Lecture Notes in Computer Science</i> , 2012 , 274-287	0.9	
34	Finding Longest Common Segments in Protein Structures in Nearly Linear Time. <i>Lecture Notes in Computer Science</i> , 2012 , 334-348	0.9	
33	On protein structure alignment under distance constraint. <i>Theoretical Computer Science</i> , 2011 , 412, 4187-4199	6	
32	Incorporating Ab Initio energy into threading approaches for protein structure prediction. <i>BMC Bioinformatics</i> , 2011 , 12 Suppl 1, S54	3.6	4
31	Protein-protein binding sites prediction by 3D structural similarities. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 3287-94	6.1	9
30	Pedigree reconstruction using identity by descent. <i>Journal of Computational Biology</i> , 2011 , 18, 1481-93	1.7	22
29	Finding nearly optimal GDT scores. <i>Journal of Computational Biology</i> , 2011 , 18, 693-704	1.7	5
28	Error tolerant NMR backbone resonance assignment and automated structure generation. <i>Journal of Bioinformatics and Computational Biology</i> , 2011 , 9, 15-41	1	15
27	Pedigree Reconstruction Using Identity by Descent. <i>Lecture Notes in Computer Science</i> , 2011 , 136-152	0.9	6
26	Protein secondary structure prediction using NMR chemical shift data. <i>Journal of Bioinformatics and Computational Biology</i> , 2010 , 8, 867-84	1	15
25	Calibur: a tool for clustering large numbers of protein decoys. <i>BMC Bioinformatics</i> , 2010 , 11, 25	3.6	53
24	Predicting local quality of a sequence-structure alignment. <i>Journal of Bioinformatics and Computational Biology</i> , 2009 , 7, 789-810	1	4

23	Finding compact structural motifs. <i>Theoretical Computer Science</i> , 2009 , 410, 2834-2839	1.1	1
22	On two open problems of 2-interval patterns. <i>Theoretical Computer Science</i> , 2009 , 410, 2410-2423	1.1	4
21	On Protein Structure Alignment under Distance Constraint. <i>Lecture Notes in Computer Science</i> , 2009 , 65-76	0.9	3
20	Fragment-HMM: a new approach to protein structure prediction. <i>Protein Science</i> , 2008 , 17, 1925-34	6.3	48
19	Designing succinct structural alphabets. <i>Bioinformatics</i> , 2008 , 24, i182-9	7.2	8
18	A PTAS For The k-Consensus Structures Problem Under Squared Euclidean Distance. <i>Algorithms</i> , 2008 , 1, 43-51	1.8	2
17	Discriminative learning for protein conformation sampling. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008 , 73, 228-40	4.2	30
16	A PTAS for the k-Consensus Structures Problem Under Euclidean Squared Distance 2008 , 35-44		
15	Finding Largest Well-Predicted Subset of Protein Structure Models 2008 , 44-55		10
14	New Algorithms for the Spaced Seeds 2007 , 50-61		
13	Finding Compact Structural Motifs. <i>Lecture Notes in Computer Science</i> , 2007 , 142-149	0.9	4
12	FragQA: predicting local fragment quality of a sequence-structure alignment. <i>Genome Informatics</i> , 2007 , 19, 27-39		5
11	On the Complexity of the Crossing Contact Map Pattern Matching Problem. <i>Lecture Notes in Computer Science</i> , 2006 , 231-241	0.9	2
10	Indexing DNA Sequences Using q-Grams. <i>Lecture Notes in Computer Science</i> , 2005 , 4-16	0.9	16
9	Piers. <i>SIGMOD Record</i> , 2004 , 33, 39-44	1.1	9
8	New Approximation Algorithms for Some Dynamic Storage Allocation Problems. <i>Lecture Notes in Computer Science</i> , 2004 , 339-348	0.9	4
7	Consensus Approaches to Protein Structure Prediction 189-208		1
6	A comprehensive characterization of simple sequence repeats in pepper genomes provides valuable resources for marker development in Capsicum		0

5	Functional Organization of the Maternal and Paternal Human 4D Nucleome	3
4	SCYN: Single cell CNV profiling method using dynamic programming	2
3	D-GPM: a deep learning method for gene promoter methylation inference	1
2	scSVAS: CNV clonal visualization online platform for large scale single-cell genomics	1
1	Both Simulation and Sequencing Data Reveal Multiple SARS-CoV-2 Variants Coinfection in COVID-19 Pandemic	1