

Haixu Tang

List of Publications by Citations

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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.

121
papers

6,269
citations

40
h-index

77
g-index

130
ext. papers

7,732
ext. citations

7.2
avg, IF

5.85
L-index

#	Paper	IF	Citations
121	The ecoresponsive genome of <i>Daphnia pulex</i> . <i>Science</i> , 2011 , 331, 555-61	33.3	924
120	FragGeneScan: predicting genes in short and error-prone reads. <i>Nucleic Acids Research</i> , 2010 , 38, e191	20.1	535
119	Rate and molecular spectrum of spontaneous mutations in the bacterium <i>Escherichia coli</i> as determined by whole-genome sequencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E2774-83	11.5	418
118	RAPSearch2: a fast and memory-efficient protein similarity search tool for next-generation sequencing data. <i>Bioinformatics</i> , 2012 , 28, 125-6	7.2	292
117	The transcriptional diversity of 25 <i>Drosophila</i> cell lines. <i>Genome Research</i> , 2011 , 21, 301-14	9.7	171
116	Ancestral reconstruction of segmental duplications reveals punctuated cores of human genome evolution. <i>Nature Genetics</i> , 2007 , 39, 1361-8	36.3	162
115	De novo repeat classification and fragment assembly. <i>Genome Research</i> , 2004 , 14, 1786-96	9.7	157
114	Identification of Pol IV and RDR2-dependent precursors of 24 nt siRNAs guiding de novo DNA methylation in <i>Arabidopsis</i> . <i>ELife</i> , 2015 , 4, e09591	8.9	146
113	A computational approach toward label-free protein quantification using predicted peptide detectability. <i>Bioinformatics</i> , 2006 , 22, e481-8	7.2	141
112	Spatial and functional relationships among Pol V-associated loci, Pol IV-dependent siRNAs, and cytosine methylation in the <i>Arabidopsis</i> epigenome. <i>Genes and Development</i> , 2012 , 26, 1825-36	12.6	115
111	Learning your identity and disease from research papers 2009 ,		113
110	Diverse CRISPRs evolving in human microbiomes. <i>PLoS Genetics</i> , 2012 , 8, e1002441	6	100
109	Regulation of adjacent yeast genes. <i>Trends in Genetics</i> , 2000 , 16, 109-11	8.5	99
108	Leaky Cauldron on the Dark Land: Understanding Memory Side-Channel Hazards in SGX 2017 , 2017, 2421-2434	9.7	97
107	Whole-genome sequencing and assembly with high-throughput, short-read technologies. <i>PLoS ONE</i> , 2007 , 2, e484	3.7	94
106	Interlaboratory study on differential analysis of protein glycosylation by mass spectrometry: the ABRF glycoprotein research multi-institutional study 2012. <i>Molecular and Cellular Proteomics</i> , 2013 , 12, 2935-51	7.6	92
105	RAPSearch: a fast protein similarity search tool for short reads. <i>BMC Bioinformatics</i> , 2011 , 12, 159	3.6	92

104	Automated interpretation of MS/MS spectra of oligosaccharides. <i>Bioinformatics</i> , 2005 , 21 Suppl 1, i431-97.2	89
103	A novel method for multiple alignment of sequences with repeated and shuffled elements. <i>Genome Research</i> , 2004 , 14, 2336-46	9.7 83
102	ISEScan: automated identification of insertion sequence elements in prokaryotic genomes. <i>Bioinformatics</i> , 2017 , 33, 3340-3347	7.2 82
101	Computational framework for identification of intact glycopeptides in complex samples. <i>Analytical Chemistry</i> , 2014 , 86, 453-63	7.8 79
100	Fragment assembly with double-barreled data. <i>Bioinformatics</i> , 2001 , 17 Suppl 1, S225-33	7.2 79
99	A two-step process for epigenetic inheritance in Arabidopsis. <i>Molecular Cell</i> , 2014 , 54, 30-42	17.6 78
98	Determinants of spontaneous mutation in the bacterium Escherichia coli as revealed by whole-genome sequencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E5990-9	11.5 76
97	Quantitative glycomics strategies. <i>Molecular and Cellular Proteomics</i> , 2013 , 12, 874-84	7.6 76
96	De novo identification of LTR retrotransposons in eukaryotic genomes. <i>BMC Genomics</i> , 2007 , 8, 90	4.5 64
95	Improving confidence in detection and characterization of protein N-glycosylation sites and microheterogeneity. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 2007-19	2.2 61
94	Strand-biased cytosine deamination at the replication fork causes cytosine to thymine mutations in Escherichia coli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 2176-81	11.5 58
93	Efficient Genome-Wide, Privacy-Preserving Similar Patient Query based on Private Edit Distance 2015 ,	55
92	Quantitative measurement of phosphoproteome response to osmotic stress in arabidopsis based on Library-Assisted eXtracted Ion Chromatogram (LAXIC). <i>Molecular and Cellular Proteomics</i> , 2013 , 12, 2354-69	7.6 55
91	A bayesian approach to protein inference problem in shotgun proteomics. <i>Journal of Computational Biology</i> , 2009 , 16, 1183-93	1.7 55
90	A novel alignment method and multiple filters for exclusion of unqualified peptides to enhance label-free quantification using peptide intensity in LC-MS/MS. <i>Journal of Proteome Research</i> , 2011 , 10, 4799-812	5.6 54
89	On the mutational topology of the bacterial genome. <i>G3: Genes, Genomes, Genetics</i> , 2013 , 3, 399-407	3.2 53
88	MGEScan-non-LTR: computational identification and classification of autonomous non-LTR retrotransposons in eukaryotic genomes. <i>Nucleic Acids Research</i> , 2009 , 37, e143	20.1 52
87	Insertion sequence-caused large-scale rearrangements in the genome of Escherichia coli. <i>Nucleic Acids Research</i> , 2016 , 44, 7109-19	20.1 49

86	Background Mutational Features of the Radiation-Resistant Bacterium <i>Deinococcus radiodurans</i> . <i>Molecular Biology and Evolution</i> , 2015 , 32, 2383-92	8.3	45
85	Shotgun protein sequencing by tandem mass spectra assembly. <i>Analytical Chemistry</i> , 2004 , 76, 7221-33	7.8	44
84	Addressing Beacon re-identification attacks: quantification and mitigation of privacy risks. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2017 , 24, 799-805	8.6	43
83	BuildSummary: using a group-based approach to improve the sensitivity of peptide/protein identification in shotgun proteomics. <i>Journal of Proteome Research</i> , 2012 , 11, 1494-502	5.6	42
82	Testosterone affects neural gene expression differently in male and female juncos: a role for hormones in mediating sexual dimorphism and conflict. <i>PLoS ONE</i> , 2013 , 8, e61784	3.7	42
81	N-glycan profiling by microchip electrophoresis to differentiate disease states related to esophageal adenocarcinoma. <i>Analytical Chemistry</i> , 2012 , 84, 3621-7	7.8	40
80	On the accuracy and limits of peptide fragmentation spectrum prediction. <i>Analytical Chemistry</i> , 2011 , 83, 790-6	7.8	40
79	Glycoproteomics: identifying the glycosylation of prostate specific antigen at normal and high isoelectric points by LC-MS/MS. <i>Journal of Proteome Research</i> , 2014 , 13, 5570-80	5.6	38
78	Mapping site-specific protein N-glycosylations through liquid chromatography/mass spectrometry and targeted tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2010 , 24, 965-72	2.2	36
77	Label-free glycopeptide quantification for biomarker discovery in human sera. <i>Journal of Proteome Research</i> , 2014 , 13, 4821-32	5.6	34
76	Automated annotation and quantitation of glycans by liquid chromatography/electrospray ionization mass spectrometric analysis using the MultiGlycan-ESI computational tool. <i>Rapid Communications in Mass Spectrometry</i> , 2015 , 29, 135-42	2.2	31
75	The importance of peptide detectability for protein identification, quantification, and experiment design in MS/MS proteomics. <i>Journal of Proteome Research</i> , 2010 , 9, 6288-97	5.6	31
74	An ORFome assembly approach to metagenomics sequences analysis. <i>Journal of Bioinformatics and Computational Biology</i> , 2009 , 7, 455-71	1	31
73	Adaptation of to Long-Term Serial Passage in Complex Medium: Evidence of Parallel Evolution. <i>MSystems</i> , 2017 , 2,	7.6	30
72	Protecting genomic data analytics in the cloud: state of the art and opportunities. <i>BMC Medical Genomics</i> , 2016 , 9, 63	3.7	30
71	Utilizing de Bruijn graph of metagenome assembly for metatranscriptome analysis. <i>Bioinformatics</i> , 2016 , 32, 1001-8	7.2	29
70	RNAMotifScan: automatic identification of RNA structural motifs using secondary structural alignment. <i>Nucleic Acids Research</i> , 2010 , 38, e176	20.1	29
69	A Graph-Centric Approach for Metagenome-Guided Peptide and Protein Identification in Metaproteomics. <i>PLoS Computational Biology</i> , 2016 , 12, e1005224	5	29

68	Automated Glycan Sequencing from Tandem Mass Spectra of N-Linked Glycopeptides. <i>Analytical Chemistry</i> , 2016 , 88, 5725-32	7.8	27
67	Potential for sexual conflict assessed via testosterone-mediated transcriptional changes in liver and muscle of a songbird. <i>Journal of Experimental Biology</i> , 2014 , 217, 507-17	3	24
66	Identifying repeat domains in large genomes. <i>Genome Biology</i> , 2006 , 7, R7	18.3	23
65	A community effort to protect genomic data sharing, collaboration and outsourcing. <i>Npj Genomic Medicine</i> , 2017 , 2, 33	6.2	22
64	LTR retroelements in the genome of <i>Daphnia pulex</i> . <i>BMC Genomics</i> , 2010 , 11, 425	4.5	21
63	Rational design of a more stable penicillin G acylase against organic cosolvent. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2002 , 18, 285-290		21
62	A machine-learning approach to combined evidence validation of genome assemblies. <i>Bioinformatics</i> , 2008 , 24, 744-50	7.2	20
61	Characterization of the Glycosylation Site of Human PSA Prompted by Missense Mutation using LC-MS/MS. <i>Journal of Proteome Research</i> , 2015 , 14, 2872-83	5.6	19
60	Determinants of Base-Pair Substitution Patterns Revealed by Whole-Genome Sequencing of DNA Mismatch Repair Defective. <i>Genetics</i> , 2018 , 209, 1029-1042	4	19
59	Genome assembly, rearrangement, and repeats. <i>Chemical Reviews</i> , 2007 , 107, 3391-406	68.1	19
58	Integration of time-series meta-omics data reveals how microbial ecosystems respond to disturbance. <i>Nature Communications</i> , 2020 , 11, 5281	17.4	19
57	A machine learning approach to predicting peptide fragmentation spectra. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2006 , 219-30	1.3	19
56	Choosing blindly but wisely: differentially private solicitation of DNA datasets for disease marker discovery. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2015 , 22, 100-8	8.6	18
55	8-plex LC-MS/MS Analysis of Permethylated -Glycans Achieved by Using Stable Isotopic Iodomethane. <i>Analytical Chemistry</i> , 2019 , 91, 11794-11802	7.8	18
54	Full-Spectrum Prediction of Peptides Tandem Mass Spectra using Deep Neural Network. <i>Analytical Chemistry</i> , 2020 , 92, 4275-4283	7.8	17
53	Proteomic changes in the photoreceptor outer segment upon intense light exposure. <i>Journal of Proteome Research</i> , 2010 , 9, 1173-81	5.6	17
52	MOGONET integrates multi-omics data using graph convolutional networks allowing patient classification and biomarker identification. <i>Nature Communications</i> , 2021 , 12, 3445	17.4	17
51	Roles of bacteriophages, plasmids and CRISPR immunity in microbial community dynamics revealed using time-series integrated meta-omics. <i>Nature Microbiology</i> , 2021 , 6, 123-135	26.6	16

50	Insertion Polymorphisms of Mobile Genetic Elements in Sexual and Asexual Populations of <i>Daphnia pulex</i> . <i>Genome Biology and Evolution</i> , 2017 , 9, 362-374	3.9	14
49	Combinatorial libraries of synthetic peptides as a model for shotgun proteomics. <i>Analytical Chemistry</i> , 2010 , 82, 6559-68	7.8	14
48	XLSearch: a Probabilistic Database Search Algorithm for Identifying Cross-Linked Peptides. <i>Journal of Proteome Research</i> , 2016 , 15, 1830-41	5.6	14
47	Detection of structural variants involving repetitive regions in the reference genome. <i>Journal of Computational Biology</i> , 2014 , 21, 219-33	1.7	13
46	Probabilistic inference of biochemical reactions in microbial communities from metagenomic sequences. <i>PLoS Computational Biology</i> , 2013 , 9, e1002981	5	12
45	Independent mammalian genome contractions following the KT boundary. <i>Genome Biology and Evolution</i> , 2009 , 1, 2-12	3.9	12
44	ADVANCEMENT IN PROTEIN INFERENCE FROM SHOTGUN PROTEOMICS USING PEPTIDE DETECTABILITY 2006 ,		12
43	A Meta-proteogenomic Approach to Peptide Identification Incorporating Assembly Uncertainty and Genomic Variation. <i>Molecular and Cellular Proteomics</i> , 2019 , 18, S183-S192	7.6	11
42	STRScan: targeted profiling of short tandem repeats in whole-genome sequencing data. <i>BMC Bioinformatics</i> , 2017 , 18, 398	3.6	11
41	A de Bruijn graph approach to the quantification of closely-related genomes in a microbial community. <i>Journal of Computational Biology</i> , 2012 , 19, 814-25	1.7	11
40	A new estimator of significance of correlation in time series data. <i>Journal of Computational Biology</i> , 2001 , 8, 463-70	1.7	11
39	DNA sequence templates adjacent nucleosome and ORC sites at gene amplification origins in <i>Drosophila</i> . <i>Nucleic Acids Research</i> , 2015 , 43, 8746-61	20.1	10
38	The Spectrum of Replication Errors in the Absence of Error Correction Assayed Across the Whole Genome of. <i>Genetics</i> , 2018 , 209, 1043-1054	4	10
37	msCRUSH: Fast Tandem Mass Spectral Clustering Using Locality Sensitive Hashing. <i>Journal of Proteome Research</i> , 2019 , 18, 147-158	5.6	10
36	The Symmetrical Wave Pattern of Base-Pair Substitution Rates across the <i>Escherichia coli</i> Chromosome Has Multiple Causes. <i>MBio</i> , 2019 , 10,	7.8	9
35	Bioinformatics protocols in glycomics and glycoproteomics. <i>Current Protocols in Protein Science</i> , 2014 , 76, 2.15.1-2.15.7	3.1	9
34	Extending the coverage of spectral libraries: a neighbor-based approach to predicting intensities of peptide fragmentation spectra. <i>Proteomics</i> , 2013 , 13, 756-65	4.8	9
33	On the estimation of false positives in peptide identifications using decoy search strategy. <i>Proteomics</i> , 2009 , 9, 194-204	4.8	9

32	iDASH secure genome analysis competition 2017. <i>BMC Medical Genomics</i> , 2018 , 11, 85	3.7	9
31	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
30	Adaptation of Escherichia coli to long-term batch culture in various rich media. <i>Research in Microbiology</i> , 2018 , 169, 145-156	4	8
29	Protein identification problem from a Bayesian point of view. <i>Statistics and Its Interface</i> , 2012 , 5, 21-37	0.4	8
28	Impact of Amidination on Peptide Fragmentation and Identification in Shotgun Proteomics. <i>Journal of Proteome Research</i> , 2016 , 15, 3656-3665	5.6	7
27	Computational Methods in Mass Spectrometry-Based Proteomics. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 939, 63-89	3.6	7
26	Correcting base-assignment errors in repeat regions of shotgun assembly. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2007 , 4, 54-64	3	6
25	Insertion sequence elements-mediated structural variations in bacterial genomes. <i>Mobile DNA</i> , 2018 , 9, 29	4.4	6
24	Clonal reconstruction from time course genomic sequencing data. <i>BMC Genomics</i> , 2019 , 20, 1002	4.5	5
23	New complexities of SOS-induced "untargeted" mutagenesis in Escherichia coli as revealed by mutation accumulation and whole-genome sequencing. <i>DNA Repair</i> , 2020 , 90, 102852	4.3	4
22	Constrained Sequencing of neo-Epitope Peptides using Tandem Mass Spectrometry. <i>Lecture Notes in Computer Science</i> , 2018 , 10812, 138-153	0.9	4
21	Computational identification of micro-structural variations and their proteogenomic consequences in cancer. <i>Bioinformatics</i> , 2018 , 34, 1672-1681	7.2	4
20	GlycoHybridSeq: Automated Identification of N-Linked Glycopeptides Using Electron Transfer/High-Energy Collision Dissociation (ETHcD). <i>Journal of Proteome Research</i> , 2021 , 20, 3345-3352	5.6	4
19	Characterization of microbial associations in human oral microbiome. <i>Bio-Medical Materials and Engineering</i> , 2014 , 24, 3737-44	1	3
18	A computational approach to characterizing bond linkages of glycan isomers using matrix-assisted laser desorption/ionization tandem time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 3561-9	2.2	3
17	On the privacy risks of sharing clinical proteomics data. <i>AMIA Summits on Translational Science Proceedings</i> , 2016 , 2016, 122-31	1.1	3
16	A Computational Approach for the Identification of Site-Specific Protein Glycosylations Through Ion-Trap Mass Spectrometry. <i>Lecture Notes in Computer Science</i> , 2007 , 96-107	0.9	3
15	Identification of N-terminal protein processing sites by chemical labeling mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2019 , 33, 1015-1023	2.2	2

14	A Secure Alignment Algorithm for Mapping Short Reads to Human Genome. <i>Journal of Computational Biology</i> , 2018 , 25, 529-540	1.7	2
13	Improving phosphopeptide identification in shotgun proteomics by supervised filtering of peptide-spectrum matches 2013 ,		2
12	Secure Genomic Computation through Site-Wise Encryption. <i>AMIA Summits on Translational Science Proceedings</i> , 2015 , 2015, 227-31	1.1	2
11	Real-time Protection of Genomic Data Sharing in Beacon Services. <i>AMIA Summits on Translational Science Proceedings</i> , 2018 , 2017, 45-54	1.1	2
10	Privacy-preserving construction of generalized linear mixed model for biomedical computation. <i>Bioinformatics</i> , 2020 , 36, i128-i135	7.2	2
9	A Maximum-Likelihood Approach to Estimating the Insertion Frequencies of Transposable Elements from Population Sequencing Data. <i>Molecular Biology and Evolution</i> , 2018 , 35, 2560-2571	8.3	1
8	Bioinformatic Approaches in Glycomics and Glycoproteomics. <i>Current Proteomics</i> , 2011 , 8, 309-324	0.7	1
7	The symmetrical pattern of base-pair substitutions rates across the chromosome in Escherichia coli has multiple causes		1
6	Clonal reconstruction from time course genomic sequencing data		1
5	Haplotype-based membership inference from summary genomic data. <i>Bioinformatics</i> , 2021 , 37, i161-i168	7.2	1
4	Algorithmic approaches to clonal reconstruction in heterogeneous cell populations. <i>Quantitative Biology</i> , 2019 , 7, 255-265	3.9	1
3	A Fast and Memory-Efficient Spectral Library Search Algorithm Using Locality-Sensitive Hashing. <i>Proteomics</i> , 2020 , 20, e2000002	4.8	0
2	GlycanGUI: Automated Glycan Annotation and Quantification Using Glucose Unit Index. <i>Frontiers in Chemistry</i> , 2021 , 9, 707382	5	0
1	Overlap detection on long, error-prone sequencing reads via smooth q-gram. <i>Bioinformatics</i> , 2020 , 36, 4838-4845	7.2	