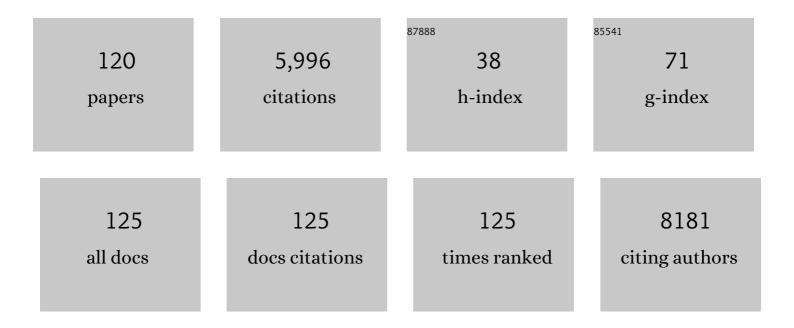
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	PopLDdecay: a fast and effective tool for linkage disequilibrium decay analysis based on variant call format files. Bioinformatics, 2019, 35, 1786-1788.	4.1	818
2	SVMTriP: A Method to Predict Antigenic Epitopes Using Support Vector Machine to Integrate Tri-Peptide Similarity and Propensity. PLoS ONE, 2012, 7, e45152.	2.5	269
3	A Knowledge-Based Energy Function for Proteinâ îLigand, Proteinâ îProtein, and Proteinâ îDNA Complexes. Journal of Medicinal Chemistry, 2005, 48, 2325-2335.	6.4	264
4	Protein binding site prediction using an empirical scoring function. Nucleic Acids Research, 2006, 34, 3698-3707.	14.5	223
5	Regulation of miRNA abundance by RNA binding protein TOUGH in <i>Arabidopsis</i> . Proceedings of the United States of America, 2012, 109, 12817-12821.	7.1	177
6	A physical reference state unifies the structure-derived potential of mean force for protein folding and binding. Proteins: Structure, Function and Bioinformatics, 2004, 56, 93-101.	2.6	176
7	An accurate, residue-level, pair potential of mean force for folding and binding based on the distance-scaled, ideal-gas reference state. Protein Science, 2004, 13, 400-411.	7.6	153
8	Heat stress yields a unique MADS box transcription factor in determining seed size and thermal sensitivity. Plant Physiology, 2016, 171, 606-622.	4.8	146
9	EPSVR and EPMeta: prediction of antigenic epitopes using support vector regression and multiple server results. BMC Bioinformatics, 2010, 11, 381.	2.6	140
10	PhosphoSVM: prediction of phosphorylation sites by integrating various protein sequence attributes with a support vector machine. Amino Acids, 2014, 46, 1459-1469.	2.7	132
11	Editing of an Alpha-Kafirin Gene Family Increases, Digestibility and Protein Quality in Sorghum. Plant Physiology, 2018, 177, 1425-1438.	4.8	128
12	PIWI Associated siRNAs and piRNAs Specifically Require the Caenorhabditis elegans HEN1 Ortholog henn-1. PLoS Genetics, 2012, 8, e1002616.	3.5	124
13	Identification of differentially expressed genes between sorghum genotypes with contrasting nitrogen stress tolerance by genome-wide transcriptional profiling. BMC Genomics, 2014, 15, 179.	2.8	118
14	Allelic variants of OsHKT1;1 underlie the divergence between indica and japonica subspecies of rice (Oryza sativa) for root sodium content. PLoS Genetics, 2017, 13, e1006823.	3.5	118
15	Accurate and efficient loop selections by the DFIRE-based all-atom statistical potential. Protein Science, 2004, 13, 391-399.	7.6	112
16	Conformational B-Cell Epitope Prediction on Antigen Protein Structures: A Review of Current Algorithms and Comparison with Common Binding Site Prediction Methods. PLoS ONE, 2013, 8, e62249.	2.5	101
17	Prediction of antigenic epitopes on protein surfaces by consensus scoring. BMC Bioinformatics, 2009, 10, 302.	2.6	99
18	Distinct <i>Pseudomonas</i> typeâ€ <scp>III</scp> effectors use a cleavable transit peptide to target chloroplasts. Plant Journal, 2014, 77, 310-321.	5.7	92

#	Article	IF	CITATIONS
19	The <i><scp>P</scp>seudomonas syringae</i> type <scp>III</scp> effector <scp>H</scp> op <scp>D</scp> 1 suppresses effectorâ€triggered immunity, localizes to the endoplasmic reticulum, and targets the <scp>A</scp> rabidopsis transcription factor <scp>NTL</scp> 9. New Phytologist, 2014, 201, 1358-1370.	7.3	89
20	Fold recognition by concurrent use of solvent accessibility and residue depth. Proteins: Structure, Function and Bioinformatics, 2007, 68, 636-645.	2.6	87
21	Osmotic stress induces phosphorylation of histone H3 at threonine 3 in pericentromeric regions of <i>Arabidopsis thaliana</i> . Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8487-8492.	7.1	82
22	Synergistic and Independent Actions of Multiple Terminal Nucleotidyl Transferases in the 3' Tailing of Small RNAs in Arabidopsis. PLoS Genetics, 2015, 11, e1005091.	3.5	81
23	DFVF: database of fungal virulence factors. Database: the Journal of Biological Databases and Curation, 2012, 2012, bas032-bas032.	3.0	80
24	Dehydration Stress Memory: Gene Networks Linked to Physiological Responses During Repeated Stresses of Zea mays. Frontiers in Plant Science, 2018, 9, 1058.	3.6	71
25	Genetic and Molecular Characterization of Submergence Response Identifies Subtol6 as a Major Submergence Tolerance Locus in Maize. PLoS ONE, 2015, 10, e0120385.	2.5	66
26	Tracking the Sources of Antibiotic Resistance Genes in an Urban Stream during Wet Weather using Shotgun Metagenomic Analyses. Environmental Science & Technology, 2018, 52, 9033-9044.	10.0	66
27	MAC3A and MAC3B, Two Core Subunits of the MOS4-Associated Complex, Positively Influence miRNA Biogenesis. Plant Cell, 2018, 30, 481-494.	6.6	64
28	A simple reference state makes a significant improvement in nearâ€native selections from structurally refined docking decoys. Proteins: Structure, Function and Bioinformatics, 2007, 69, 244-253.	2.6	59
29	Sharpening Low-Energy, Standard-Model Tests via Correlation Coefficients in NeutronβDecay. Physical Review Letters, 2001, 86, 5666-5669.	7.8	58
30	Temperature Dependence of the Distribution of the First Passage Time:  Results from Discontinuous Molecular Dynamics Simulations of an All-Atom Model of the Second β-Hairpin Fragment of Protein G. Journal of the American Chemical Society, 2003, 125, 6300-6305.	13.7	56
31	Fast and accurate prediction of protein side-chain conformations. Bioinformatics, 2011, 27, 2913-2914.	4.1	53
32	Mapping QTLs and association of differentially expressed gene transcripts for multiple agronomic traits under different nitrogen levels in sorghum. BMC Plant Biology, 2016, 16, 16.	3.6	51
33	What is a Desirable Statistical Energy Function for Proteins and How Can It Be Obtained?. Cell Biochemistry and Biophysics, 2006, 46, 165-174.	1.8	50
34	<i>MADS78</i> and <i>MADS79</i> Are Essential Regulators of Early Seed Development in Rice. Plant Physiology, 2020, 182, 933-948.	4.8	49
35	Identification of RNA silencing components in soybean and sorghum. BMC Bioinformatics, 2014, 15, 4.	2.6	46
36	Deletion Mutagenesis Identifies a Haploinsufficient Role for Î ³ -Zein in <i>opaque2</i> Endosperm Modification Â. Plant Physiology, 2014, 164, 119-130.	4.8	46

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37	Validation of QTL mapping and transcriptome profiling for identification of candidate genes associated with nitrogen stress tolerance in sorghum. BMC Plant Biology, 2017, 17, 123.	3.6	45
38	A Comprehensive Imageâ€based Phenomic Analysis Reveals the Complex Genetic Architecture of Shoot Growth Dynamics in Rice (<i>Oryza sativa</i>). Plant Genome, 2017, 10, plantgenome2016.07.0064.	2.8	45
39	Automatic planning on hippocampal avoidance whole-brain radiotherapy. Medical Dosimetry, 2017, 42, 63-68.	0.9	42
40	The Dependence of All-Atom Statistical Potentials on Structural Training Database. Biophysical Journal, 2004, 86, 3349-3358.	0.5	41
41	SMA1, a homolog of the splicing factor Prp28, has a multifaceted role in miRNA biogenesis in Arabidopsis. Nucleic Acids Research, 2018, 46, 9148-9159.	14.5	38
42	Radiomics-Based Outcome Prediction for Pancreatic Cancer Following Stereotactic Body Radiotherapy. Cancers, 2020, 12, 1051.	3.7	38
43	STV1, a ribosomal protein, binds primary microRNA transcripts to promote their interaction with the processing complex in <i>Arabidopsis</i> . Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1424-1429.	7.1	37
44	Evaluating potential risks of food allergy of novel food sources based on comparison of proteins predicted from genomes and compared to www.AllergenOnline.org. Food and Chemical Toxicology, 2021, 147, 111888.	3.6	35
45	Docking prediction using biological information, ZDOCK sampling technique, and clustering guided by the DFIRE statistical energy function. Proteins: Structure, Function and Bioinformatics, 2005, 60, 314-318.	2.6	34
46	LEAP: Highly accurate prediction of protein loop conformations by integrating coarseâ€grained sampling and optimized energy scores with allâ€atom refinement of backbone and side chains. Journal of Computational Chemistry, 2014, 35, 335-341.	3.3	34
47	Radiomic feature stability across 4D respiratory phases and its impact on lung tumor prognosis prediction. PLoS ONE, 2019, 14, e0216480.	2.5	34
48	MAC5, an RNA-binding protein, protects pri-miRNAs from SERRATE-dependent exoribonuclease activities. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23982-23990.	7.1	32
49	New aspects of iron–copper crosstalk uncovered by transcriptomic characterization of Col-0 and the copper uptake mutant <i>spl7</i> in <i>Arabidopsis thaliana</i> . Metallomics, 2018, 10, 1824-1840.	2.4	31
50	Genome-Wide Gene Expression in relation to Age in Large Laboratory Cohorts of <i>Drosophila melanogaster</i> . Genetics Research International, 2015, 2015, 1-19.	2.0	30
51	Proteomic profiling of maize opaque endosperm mutants reveals selective accumulation of lysine-enriched proteins. Journal of Experimental Botany, 2016, 67, 1381-1396.	4.8	30
52	Radiative neutron β-decay in effective field theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 593, 105-114.	4.1	29
53	Fuzzy clustering of CPP family in plants with evolution and interaction analyses. BMC Bioinformatics, 2013, 14, S10.	2.6	28
54	Scalable and physiologically relevant microenvironments for human pluripotent stem cell expansion and differentiation. Biofabrication, 2018, 10, 025006.	7.1	28

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55	Hydrogel-Based Bioprocess for Scalable Manufacturing of Human Pluripotent Stem Cell-Derived Neural Stem Cells. ACS Applied Materials & Interfaces, 2018, 10, 29238-29250.	8.0	28
56	Integrated generation of induced pluripotent stem cells in a low-cost device. Biomaterials, 2019, 189, 23-36.	11.4	28
57	Scalable Culturing of Primary Human Glioblastoma Tumor-Initiating Cells with a Cell-Friendly Culture System. Scientific Reports, 2018, 8, 3531.	3.3	27
58	Using Quantitative Imaging for Personalized Medicine in Pancreatic Cancer: A Review of Radiomics and Deep Learning Applications. Cancers, 2022, 14, 1654.	3.7	27
59	Pyrophosphate-Dependent Fructose-6-Phosphate 1-Phosphotransferase Induction and Attenuation of Hsp Gene Expression during Endosperm Modification in Quality Protein Maize Â. Plant Physiology, 2012, 158, 917-929.	4.8	26
60	DAWDLE Interacts with DICER-LIKE Proteins to Mediate Small RNA Biogenesis. Plant Physiology, 2018, 177, 1142-1151.	4.8	25
61	Engineered Microenvironment for Manufacturing Human Pluripotent Stem Cell-Derived Vascular Smooth Muscle Cells. Stem Cell Reports, 2019, 12, 84-97.	4.8	25
62	Mapping of transgenic alleles in soybean using a nanopore-based sequencing strategy. Journal of Experimental Botany, 2019, 70, 3825-3833.	4.8	24
63	L1pred: A Sequence-Based Prediction Tool for Catalytic Residues in Enzymes with the L1-logreg Classifier. PLoS ONE, 2012, 7, e35666.	2.5	24
64	Insect and plant-derived miRNAs in greenbug (Schizaphis graminum) and yellow sugarcane aphid (Sipha) Tj ETQq() 0 0 rgBT 2.2	/Qyerlock 1
65	Fast and Accurate Method for Identifying High-Quality Protein-Interaction Modules by Clique Merging and Its Application to Yeast. Journal of Proteome Research, 2006, 5, 801-807.	3.7	22
66	A Scalable and Efficient Bioprocess for Manufacturing Human Pluripotent Stem Cell-Derived Endothelial Cells. Stem Cell Reports, 2018, 11, 454-469.	4.8	22
67	The DNA―and RNAâ€binding protein FACTOR of DNA METHYLATION 1 requires XH domainâ€mediated comp formation for its function in RNAâ€directed DNA methylation. Plant Journal, 2012, 72, 491-500.	lex 5.7	21
68	Exome chip analyses identify genes affecting mortality after HLA-matched unrelated-donor blood and marrow transplantation. Blood, 2018, 131, 2490-2499.	1.4	21
69	Genomeâ€wide discovery of natural variation in preâ€mRNA splicing and prioritising causal alternative splicing to salt stress response in rice. New Phytologist, 2021, 230, 1273-1287.	7.3	20
70	Protein flexibility prediction by an all-atom mean-field statistical theory. Protein Science, 2005, 14, 1772-1777.	7.6	19
71	Automated Expansion of Primary Human T Cells in Scalable and Cellâ€Friendly Hydrogel Microtubes for Adoptive Immunotherapy. Advanced Healthcare Materials, 2018, 7, e1701297.	7.6	19
72	QBES: Predicting real values of solvent accessibility from sequences by efficient, constrained energy optimization. Proteins: Structure, Function and Bioinformatics, 2006, 63, 961-966.	2.6	18

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73	Serrateâ€Associated Protein 1, a splicingâ€related protein, promotes miRNA biogenesis in Arabidopsis. New Phytologist, 2021, 232, 1959-1973.	7.3	18
74	SVMTriP: A Method to Predict B-Cell Linear Antigenic Epitopes. Methods in Molecular Biology, 2020, 2131, 299-307.	0.9	18
75	Web-based toolkits for topology prediction of transmembrane helical proteins, fold recognition, structure and binding scoring, folding-kinetics analysis and comparative analysis of domain combinations. Nucleic Acids Research, 2005, 33, W193-W197.	14.5	17
76	Protein Loop Modeling with Optimized Backbone Potential Functions. Journal of Chemical Theory and Computation, 2012, 8, 1820-1827.	5.3	17
77	Endoplasmic reticulum stress pathway mediates the early heat stress response of developing rice seeds. Plant, Cell and Environment, 2021, 44, 2604-2624.	5.7	17
78	Target dose conversion modeling from pencil beam (PB) to Monte Carlo (MC) for lung SBRT. Radiation Oncology, 2016, 11, 83.	2.7	16
79	Characterization of the transcriptional divergence between the subspecies of cultivated rice (Oryza) Tj ETQq1 1	0.784314 2.8	rgBT /Overic
80	Genome-wide Discovery of Circular RNAs in the Leaf and Seedling Tissues of Arabidopsis Thaliana. Current Genomics, 2017, 18, 360-365.	1.6	16
81	Perineural clonidine reduces p38 mitogen-activated protein kinase activation in sensory neurons. NeuroReport, 2006, 17, 1313-1317.	1.2	15
82	A Population of Deletion Mutants and an Integrated Mapping and Exome-seq Pipeline for Gene Discovery in Maize. G3: Genes, Genomes, Genetics, 2016, 6, 2385-2395.	1.8	14
83	Networkâ€based feature selection reveals substructures of gene modules responding to salt stress in rice. Plant Direct, 2019, 3, e00154.	1.9	14
84	A novel function prediction approach using protein overlap networks. BMC Systems Biology, 2013, 7, 61.	3.0	13
85	Manufacturing human pluripotent stem cell derived endothelial cells in scalable and cell-friendly microenvironments. Biomaterials Science, 2019, 7, 373-388.	5.4	12
86	Templateâ€based structure prediction and classification of transcription factors in <i>Arabidopsis thaliana</i> . Protein Science, 2012, 21, 828-838.	7.6	11
87	Domain Graph ofArabidopsisProteome by Comparative Analysis. Journal of Proteome Research, 2005, 4, 435-444.	3.7	10
88	Virus–host mucosal interactions during early SIV rectal transmission. Virology, 2014, 464-465, 406-414.	2.4	10
89	Prediction of immunogenicity for humanized and full human therapeutic antibodies. PLoS ONE, 2020, 15, e0238150.	2.5	10
90	Chemical and genetic variation in feral Cannabis sativa populations across the Nebraska climate gradient. Phytochemistry, 2022, 200, 113206.	2.9	10

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91	Amyloid precursor protein is a restriction factor that protects against Zika virus infection in mammalian brains. Journal of Biological Chemistry, 2020, 295, 17114-17127.	3.4	9
92	<i>Zygnema circumcarinatum</i> UTEX 1559 chloroplast and mitochondrial genomes provide insight into land plant evolution. Journal of Experimental Botany, 2020, 71, 3361-3373.	4.8	9
93	<i>MLK4</i> â€mediated phosphorylation of histone H3T3 promotes flowering by transcriptional silencing of <i>FLC/MAF</i> in <i>Arabidopsis thaliana</i> . Plant Journal, 2021, 105, 1400-1412.	5.7	9
94	Protein loop selection using orientationâ€dependent force fields derived by parameter optimization. Proteins: Structure, Function and Bioinformatics, 2011, 79, 2260-2267.	2.6	8
95	Deletion of maize RDM4 suggests a role in endosperm maturation as well as vegetative and stress-responsive growth. Journal of Experimental Botany, 2020, 71, 5880-5895.	4.8	8
96	RGPDB: database of root-associated genes and promoters in maize, soybean, and sorghum. Database: the Journal of Biological Databases and Curation, 2020, 2020, .	3.0	8
97	An Exome-seq Based Tool for Mapping and Selection of Candidate Genes in Maize Deletion Mutants. Genomics, Proteomics and Bioinformatics, 2018, 16, 439-450.	6.9	7
98	Differentiating human pluripotent stem cells into vascular smooth muscle cells in three dimensional thermoreversible hydrogels. Biomaterials Science, 2019, 7, 347-361.	5.4	7
99	Identification of a EML4-ALK exon 19 fusion variant in lung adenocarcinoma and alectinib resistance. Lung Cancer, 2021, 160, 32-35.	2.0	7
100	The UDP-glycosyltransferase MtUGT84A1 regulates anthocyanin accumulation and plant growth via JA signaling in Medicago truncatula. Environmental and Experimental Botany, 2022, 201, 104972.	4.2	7
101	Differential Expression Analysis in RNA-Seq by a Naive Bayes Classifier with Local Normalization. BioMed Research International, 2015, 2015, 1-9.	1.9	6
102	Prediction of Protein Phosphorylation Sites by Integrating Secondary Structure Information and Other One-Dimensional Structural Properties. Methods in Molecular Biology, 2017, 1484, 265-274.	0.9	6
103	Transcriptome analysis-identified long noncoding RNA CRNDE in maintaining endothelial cell proliferation, migration, and tube formation. Scientific Reports, 2019, 9, 19548.	3.3	6
104	Isolating and cryopreserving pig skin cells for single-cell RNA sequencing study. PLoS ONE, 2022, 17, e0263869.	2.5	6
105	Uneven size distribution of mammalian genes in the number of tissues expressed and in the number of co-expressed genes. Human Molecular Genetics, 2006, 15, 1313-1318.	2.9	4
106	iVAR: Interactive visual analytics of radiomics features from large-scale medical images. , 2017, , .		4
107	Pervasive misannotation of microexons that are evolutionarily conserved and crucial for gene function in plants. Nature Communications, 2022, 13, 820.	12.8	4
108	Application of statistical and computational methodology to predict brainstem dosimetry for trigeminal neuralgia stereotactic radiosurgery. Medical Physics, 2018, 45, 1822-1831.	3.0	3

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109	Glycosyl rotation and distortion by key residues in Endocellulase Cel6A from Theromobifida fusca. Glycobiology, 2014, 24, 247-251.	2.5	2
110	TGCnA: temporal gene coexpression network analysis using a low-rank plus sparse framework. Journal of Applied Statistics, 2020, 47, 1064-1083.	1.3	2
111	EPCES and EPSVR: Prediction of B-Cell Antigenic Epitopes on Protein Surfaces with Conformational Information. Methods in Molecular Biology, 2020, 2131, 289-297.	0.9	2
112	NanoAsPipe: A transcriptome analysis and alternative splicing detection pipeline for MinION long-read RNA-seq. , 2017, , .		1
113	Identification of differential alternative splicing events with an adjusted beta-distribution model. , 2017, , .		1
114	Deletion Mutagenesis and Identification of Causative Mutations in Maize. Methods in Molecular Biology, 2018, 1676, 97-108.	0.9	1
115	InMut-finder: a software tool for insertion identification in mutagenesis using Nanopore long reads. BMC Genomics, 2021, 22, 908.	2.8	1
116	A dataset for assessing temporal changes in gene expression during the aging process of adult Drosophila melanogaster. Data in Brief, 2016, 7, 1652-1657.	1.0	0
117	A mapping-by-sequencing tool for searching causative genes in mutants. , 2017, , .		0
118	Discovery and Characterization of Non-coding RNA Through Modern Genomics. , 2021, , 284-298.		0
119	Radiative neutron beta-decay in effective field theory. Journal of Research of the National Institute of Standards and Technology, 2005, 110, 411.	1.2	Ο
120	FDDM1 and FDDM2, Two SGS3-like Proteins, Function as a Complex to Affect DNA Methylation in Arabidopsis. Genes, 2022, 13, 339.	2.4	0