

Atmakuri Ramakrishna Rao

List of Publications by Citations

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39
papers

675
citations

13
h-index

25
g-index

44
ext. papers

985
ext. citations

3.7
avg, IF

4.28
L-index

#	Paper	IF	Citations
39	Predicting antimicrobial peptides with improved accuracy by incorporating the compositional, physico-chemical and structural features into Chou's general PseAAC. <i>Scientific Reports</i> , 2017 , 7, 42362	4.9	233
38	Genomic Selection for Drought Tolerance Using Genome-Wide SNPs in Maize. <i>Frontiers in Plant Science</i> , 2017 , 8, 550	6.2	83
37	Identification, Characterization, and Functional Validation of Drought-responsive MicroRNAs in Subtropical Maize Inbreds. <i>Frontiers in Plant Science</i> , 2017 , 8, 941	6.2	43
36	Genome Wide Single Locus Single Trait, Multi-Locus and Multi-Trait Association Mapping for Some Important Agronomic Traits in Common Wheat (T. aestivum L.). <i>PLoS ONE</i> , 2016 , 11, e0159343	3.7	41
35	RNAseq revealed the important gene pathways controlling adaptive mechanisms under waterlogged stress in maize. <i>Scientific Reports</i> , 2017 , 7, 10950	4.9	31
34	Transcriptome analysis reveals interplay between hormones, ROS metabolism and cell wall biosynthesis for drought-induced root growth in wheat. <i>Plant Physiology and Biochemistry</i> , 2018 , 130, 482-492	5.4	27
33	SpikeSegNet-a deep learning approach utilizing encoder-decoder network with hourglass for spike segmentation and counting in wheat plant from visual imaging. <i>Plant Methods</i> , 2020 , 16, 40	5.8	25
32	Genomewide Expression and Functional Interactions of Genes under Drought Stress in Maize. <i>International Journal of Genomics</i> , 2017 , 2017, 2568706	2.5	25
31	Prediction of donor splice sites using random forest with a new sequence encoding approach. <i>BioData Mining</i> , 2016 , 9, 4	4.3	25
30	Comparative transcriptome analysis reveals the genetic basis of coat color variation in Pashmina goat. <i>Scientific Reports</i> , 2019 , 9, 6361	4.9	13
29	ir-HSP: Improved Recognition of Heat Shock Proteins, Their Families and Sub-types Based On -Spaced Di-peptide Features and Support Vector Machine. <i>Frontiers in Genetics</i> , 2017 , 8, 235	4.5	13
28	A statistical approach for 5Ysplice site prediction using short sequence motifs and without encoding sequence data. <i>BMC Bioinformatics</i> , 2014 , 15, 362	3.6	13
27	Metagenomic Analysis Reveals Bacterial and Fungal Diversity and Their Bioremediation Potential From Sediments of River Ganga and Yamuna in India. <i>Frontiers in Microbiology</i> , 2020 , 11, 556136	5.7	13
26	Extrapolation of Inter Domain Communications and Substrate Binding Cavity of Camel HSP70 1A: A Molecular Modeling and Dynamics Simulation Study. <i>PLoS ONE</i> , 2015 , 10, e0136630	3.7	12
25	DIRProt: a computational approach for discriminating insecticide resistant proteins from non-resistant proteins. <i>BMC Bioinformatics</i> , 2017 , 18, 190	3.6	11
24	Identification of species based on DNA barcode using k-mer feature vector and Random forest classifier. <i>Gene</i> , 2016 , 592, 316-24	3.8	9
23	Variable Level of Dominance of Candidate Genes Controlling Drought Functional Traits in Maize Hybrids. <i>Frontiers in Plant Science</i> , 2017 , 8, 940	6.2	8

22	funbarRF: DNA barcode-based fungal species prediction using multiclass Random Forest supervised learning model. <i>BMC Genetics</i> , 2019 , 20, 2	2.6	8
21	Genome-wide identification and characterization of lncRNAs and miRNAs in cluster bean (<i>Cyamopsis tetragonoloba</i>). <i>Gene</i> , 2018 , 667, 112-121	3.8	7
20	Metagenome analysis from the sediment of river Ganga and Yamuna: In search of beneficial microbiome. <i>PLoS ONE</i> , 2020 , 15, e0239594	3.7	6
19	HRGPred: Prediction of herbicide resistant genes with k-mer nucleotide compositional features and support vector machine. <i>Scientific Reports</i> , 2019 , 9, 778	4.9	5
18	A computational approach for prediction of donor splice sites with improved accuracy. <i>Journal of Theoretical Biology</i> , 2016 , 404, 285-294	2.3	5
17	miRNALoc: predicting miRNA subcellular localizations based on principal component scores of physico-chemical properties and pseudo compositions of di-nucleotides. <i>Scientific Reports</i> , 2020 , 10, 14557	4.9	4
16	Evaluating the performance of sequence encoding schemes and machine learning methods for splice sites recognition. <i>Gene</i> , 2019 , 705, 113-126	3.8	2
15	Draft Genome Sequence of the Extremely Halophilic Bacterium <i>Halomonas salina</i> Strain CIFR11, Isolated from the East Coast of India. <i>Genome Announcements</i> , 2015 , 3,		2
14	An approach using random forest methodology for disease risk prediction using imbalanced case-control data in GWAS. <i>Current Medicine Research and Practice</i> , 2014 , 4, 289-294	2.7	2
13	ASRmiRNA: Abiotic Stress-Responsive miRNA Prediction in Plants by Using Machine Learning Algorithms with Pseudo -Tuple Nucleotide Compositional Features.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	2
12	mLoc-mRNA: predicting multiple sub-cellular localization of mRNAs using random forest algorithm coupled with feature selection via elastic net. <i>BMC Bioinformatics</i> , 2021 , 22, 342	3.6	2
11	MicroRNA-related markers associated with corpus luteum tropism in buffalo (<i>Bubalus bubalis</i>). <i>Genomics</i> , 2020 , 112, 108-113	4.3	2
10	Determination of window size and identification of suitable method for prediction of donor splice sites in rice (<i>Oryza sativa</i>) genome. <i>Journal of Plant Biochemistry and Biotechnology</i> , 2015 , 24, 385-392	1.6	1
9	shRNAPred (version 1.0): An open source and standalone software for short hairpin RNA (shRNA) prediction. <i>Bioinformatics</i> , 2012 , 8, 629-33	1.1	1
8	Inferring Relationship of Blood Metabolic Changes and Average Daily Gain With Feed Conversion Efficiency in Murrah Heifers: Machine Learning Approach. <i>Frontiers in Veterinary Science</i> , 2020 , 7, 518	3.1	1
7	Metagenomics study in aquatic resource management: recent trends, applied methodologies and future needs. <i>Gene Reports</i> , 2021 , 25, 101372	1.4	0
6	Evolutionary and functional characterisation of glutathione peroxidases showed splicing mediated stress responses in Maize.. <i>Plant Physiology and Biochemistry</i> , 2022 , 178, 40-54	5.4	0
5	Exploring microbiome from sediments of River Ganga using a metagenomic approach. <i>Aquatic Ecosystem Health and Management</i> , 2021 , 24, 12-22	1.4	0

4	In silico site-directed mutagenesis of neutralizing mAb 4C4 and analysis of its interaction with G-H loop of VP1 to explore its therapeutic applications against FMD. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019 , 37, 2641-2651	3.6
3	Extrapolating the effect of non-synonymous SNP in bread wheat HSP16.9B gene: a molecular modelling and dynamics study. <i>International Journal of Bioinformatics Research and Applications</i> , 2020 , 16, 101	0.9
2	Computational insights into RNAi-based therapeutics for foot and mouth disease of <i>Bos taurus</i> . <i>Scientific Reports</i> , 2020 , 10, 21593	4.9
1	Chemotactic factor inducing Interleukin-8 (IL8) gene is transcriptionally elevated in experimental enterotoxaemia in goats caused by type D. <i>Heliyon</i> , 2021 , 7, e07568	3.6