Viswanathan Chinnusamy

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8222267/publications.pdf

Version: 2024-02-01

160 papers	14,947 citations	61984 43 h-index	19749 117 g-index
168 all docs	168 docs citations	168 times ranked	13950 citing authors

#	ARTICLE	IF	CITATIONS
1	Cold stress regulation of gene expression in plants. Trends in Plant Science, 2007, 12, 444-451.	8.8	1,593
2	ICE1: a regulator of cold-induced transcriptome and freezing tolerance in Arabidopsis. Genes and Development, 2003, 17, 1043-1054.	5.9	1,363
3	In vitro reconstitution of an abscisic acid signalling pathway. Nature, 2009, 462, 660-664.	27.8	1,113
4	Understanding and Improving Salt Tolerance in Plants. Crop Science, 2005, 45, 437-448.	1.8	1,025
5	Epigenetic regulation of stress responses in plants. Current Opinion in Plant Biology, 2009, 12, 133-139.	7.1	984
6	Molecular genetic perspectives on cross-talk and specificity in abiotic stress signalling in plants. Journal of Experimental Botany, 2003, 55, 225-236.	4.8	933
7	Small RNAs as big players in plant abiotic stress responses and nutrient deprivation. Trends in Plant Science, 2007, 12, 301-309.	8.8	872
8	A gateâ€“latchâ€“lock mechanism for hormone signalling by abscisic acid receptors. Nature, 2009, 462, 602-608.	27.8	608
9	Genome-wide classification and expression analysis of MYB transcription factor families in rice and Arabidopsis. BMC Genomics, 2012, 13, 544.	2.8	450
10	Gene Regulation During Cold Stress Acclimation in Plants. Methods in Molecular Biology, 2010, 639, 39-55.	0.9	339
11	Gene regulation during cold acclimation in plants. Physiologia Plantarum, 2006, 126, 52-61.	5.2	281
12	Abscisic Acidâ€•mediated Epigenetic Processes in Plant Development and Stress Responses. Journal of Integrative Plant Biology, 2008, 50, 1187-1195.	8.5	278
13	Comparative analysis of droughtâ€•responsive transcriptome in<i>Indica</i>rice genotypes with contrasting drought tolerance. Plant Biotechnology Journal, 2011, 9, 315-327.	8.3	249
14	The role of microRNAs and other endogenous small RNAs in plant stress responses. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2008, 1779, 743-748.	1.9	246
15	Salt Stress Signaling and Mechanisms of Plant Salt Tolerance. , 2006, 27, 141-177.		208
16	Epigenetics of Modified DNA Bases: 5-Methylcytosine and Beyond. Frontiers in Genetics, 2018, 9, 640.	2.3	181
17	Abiotic stress and ABA-inducible Group 4 LEA from Brassica napus plays a key role in salt and drought tolerance. Journal of Biotechnology, 2009, 139, 137-145.	3.8	167
18	CRISPR-Cas9 mediated genome editing of drought and salt tolerance (OsDST) gene in indica mega rice cultivar MTU1010. Physiology and Molecular Biology of Plants, 2020, 26, 1099-1110.	3.1	166

#	ARTICLE	IF	CITATIONS
19	Identification and mechanism of ABA receptor antagonism. Nature Structural and Molecular Biology, 2010, 17, 1102-1108.	8.2	145
20	<i>Arabidopsis</i> proline-rich protein important for development and abiotic stress tolerance is involved in microRNA biogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18198-18203.	7.1	127
21	The unique mode of action of a divergent member of the ABA-receptor protein family in ABA and stress signaling. Cell Research, 2013, 23, 1380-1395.	12.0	125
22	Waterlogging-induced increase in sugar mobilization, fermentation, and related gene expression in the roots of mung bean (Vigna radiata). Journal of Plant Physiology, 2009, 166, 602-616.	3.5	119
23	Genome-wide identification and analysis of biotic and abiotic stress regulation of small heat shock protein (HSP20) family genes in bread wheat. Journal of Plant Physiology, 2017, 211, 100-113.	3.5	112
24	Molecular genetic analysis of coldâ€"regulated gene transcription. Philosophical Transactions of the Royal Society B: Biological Sciences, 2002, 357, 877-886.	4.0	109
25	STA1, an Arabidopsis pre-mRNA processing factor 6 homolog, is a new player involved in miRNA biogenesis. Nucleic Acids Research, 2013, 41, 1984-1997.	14.5	105
26	RAS1, a quantitative trait locus for salt tolerance and ABA sensitivity in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5669-5674.	7.1	100
27	Effect of waterlogging on carbohydrate metabolism in pigeon pea (Cajanus cajan L.): Upregulation of sucrose synthase and alcohol dehydrogenase. Plant Science, 2008, 175, 706-716.	3.6	94
28	RNA-directed DNA methylation and demethylation in plants. Science in China Series C: Life Sciences, 2009, 52, 331-343.	1.3	87
29	Starch accumulation in rice grains subjected to drought during grain filling stage. Plant Physiology and Biochemistry, 2019, 142, 440-451.	5.8	82
30	Auxin protects spikelet fertility and grain yield under drought and heat stresses in rice. Environmental and Experimental Botany, 2018, 150, 9-24.	4.2	79
31	Effect of Heat Stress on Grain Growth, Starch Synthesis and Protein Synthesis in Grains of Wheat (Triticum aestivum L.) Varieties Differing in Grain Weight Stability. Journal of Agronomy and Crop Science, 2001, 186, 1-7.	3.5	76
32	Identification of novel drought-responsive microRNAs and trans-acting siRNAs from Sorghum bicolor (L.) Moench by high-throughput sequencing analysis. Frontiers in Plant Science, 2015, 6, 506.	3.6	76
33	Transcriptional Regulatory Network Analysis of MYB Transcription Factor Family Genes in Rice. Frontiers in Plant Science, 2015, 6, 1157.	3.6	76
34	SpikeSegNet-a deep learning approach utilizing encoder-decoder network with hourglass for spike segmentation and counting in wheat plant from visual imaging. Plant Methods, 2020, 16, 40.	4.3	73
35	Waterlogging induced oxidative stress and antioxidant enzyme activities in pigeon pea. Biologia Plantarum, 2009, 53, 493-504.	1.9	71
36	Comparison of various modelling approaches for water deficit stress monitoring in rice crop through hyperspectral remote sensing. Agricultural Water Management, 2019, 213, 231-244.	5.6	69

#	ARTICLE	IF	CITATIONS
37	Plant salt tolerance. Topics in Current Genetics, 0, , 241-270.	0.7	68
38	Ectopic Expression of Rice PYL3 Enhances Cold and Drought Tolerance in Arabidopsis thaliana. Molecular Biotechnology, 2018, 60, 350-361.	2.4	58
39	Overexpression of ABA Receptor PYL10 Gene Confers Drought and Cold Tolerance to Indica Rice. Frontiers in Plant Science, 2019, 10, 1488.	3.6	55
40	Title is missing!. Euphytica, 1999, 106, 169-180.	1.2	54
41	Mechanisms of Small RNA Generation from Cis-NATs in Response to Environmental and Developmental Cues. Molecular Plant, 2013, 6, 704-715.	8.3	53
42	ROP11 GTPase Negatively Regulates ABA Signaling by Protecting ABI1 Phosphatase Activity from Inhibition by the ABA Receptor RCAR1/PYL9 in <i>Arabidopsis</i>. Journal of Integrative Plant Biology, 2012, 54, 180-188.	8.5	50
43	Harnessing Next Generation Sequencing in Climate Change: RNA-Seq Analysis of Heat Stress-Responsive Genes in Wheat (<i>Triticum aestivum</i> L.). OMICS A Journal of Integrative Biology, 2015, 19, 632-647.	2.0	50
44	Genome-wide targeted prediction of ABA responsive genes in rice based on over-represented cis-motif in co-expressed genes. Plant Molecular Biology, 2009, 69, 261-271.	3.9	48
45	Isolation and functional characterization of Lycopene Î²-cyclase (CYC-B) promoter from Solanum habrochaites. BMC Plant Biology, 2010, 10, 61.	3.6	48
46	Quantitative monitoring of sucrose, reducing sugar and total sugar dynamics for phenotyping of water-deficit stress tolerance in rice through spectroscopy and chemometrics. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 192, 41-51.	3.9	48
47	Differential transcript abundance of salt overly sensitive (SOS) pathway genes is a determinant of salinity stress tolerance of wheat. Acta Physiologiae Plantarum, 2015, 37, 1.	2.1	45
48	Comparison of different uni- and multi-variate techniques for monitoring leaf water status as an indicator of water-deficit stress in wheat through spectroscopy. Biosystems Engineering, 2017, 160, 69-83.	4.3	45
49	Characterization of novel heat-responsive transcription factor (TaHSFA6e) gene involved in regulation of heat shock proteins (HSPs) â€" A key member of heat stress-tolerance network of wheat. Journal of Biotechnology, 2018, 279, 1-12.	3.8	45
50	Expression of antioxidant defense genes in mung bean (Vigna radiata L.) roots under water-logging is associated with hypoxia tolerance. Acta Physiologiae Plantarum, 2011, 33, 735-744.	2.1	44
51	Screening for Gene Regulation Mutants by Bioluminescence Imaging. Science Signaling, 2002, 2002, pl10-pl10.	3.6	43
52	Genome-wide identification and characterization of ABA receptor PYL gene family in rice. BMC Genomics, 2020, 21, 676.	2.8	42
53	Identification of conserved drought stress responsive gene-network across tissues and developmental stages in rice. Bioinformation, 2013, 9, 72-78.	0.5	42
54	Magnetopriming circumvents the effect of salinity stress on germination in chickpea seeds. Acta Physiologiae Plantarum, 2013, 35, 3401-3411.	2.1	39

#	ARTICLE	IF	CITATIONS
55	Identification of miRNAs in sorghum by using bioinformatics approach. Plant Signaling and Behavior, 2012, 7, 246-259.	2.4	38
56	Differential Regulation of Genes Coding for Organelle and Cytosolic ClpATPases under Biotic and Abiotic Stresses in Wheat. Frontiers in Plant Science, 2016, 7, 929.	3.6	38
57	Identification of Putative RuBisCo Activase (TaRca1)â€"The Catalytic Chaperone Regulating Carbon Assimilatory Pathway in Wheat (Triticum aestivum) under the Heat Stress. Frontiers in Plant Science, 2016, 7, 986.	3.6	38
58	Nuclear RNA Export and Its Importance in Abiotic Stress Responses of Plants. Current Topics in Microbiology and Immunology, 2008, 326, 235-255.	1.1	36
59	Phenotyping and characterization of heat stress tolerance at reproductive stage in rice (Oryza sativa) Tj ETQq1 1 0.784314 rgBT /Overlo	2.1	35
60	The Role of the Epigenome in Gene Expression Control and the Epimark Changes in Response to the Environment. Critical Reviews in Plant Sciences, 2014, 33, 64-87.	5.7	31
61	Genome wide analysis of NLP transcription factors reveals their role in nitrogen stress tolerance of rice. Scientific Reports, 2020, 10, 9368.	3.3	31
62	Quantitative proteomic analysis reveals novel stress-associated active proteins (SAAPs) and pathways involved in modulating tolerance of wheat under terminal heat. Functional and Integrative Genomics, 2019, 19, 329-348.	3.5	29
63	Application of thermal imaging and hyperspectral remote sensing for crop water deficit stress monitoring. Geocarto International, 2021, 36, 481-498.	3.5	29
64	Effect of Heat Stress on Grain Starch Content in Diploid, Tetraploid and Hexaploid Wheat Species. Journal of Agronomy and Crop Science, 2003, 189, 242-249.	3.5	28
65	Biochemical Defense Response: Characterizing the Plasticity of Source and Sink in Spring Wheat under Terminal Heat Stress. Frontiers in Plant Science, 2017, 8, 1603.	3.6	28
66	RuBisCo activaseâ€"a catalytic chaperone involved in modulating the RuBisCo activity and heat stress-tolerance in wheat. Journal of Plant Biochemistry and Biotechnology, 2019, 28, 63-75.	1.7	26
67	A Simplified Floral Dip Method for Transformation of Brassica napus and B. carinata. Journal of Plant Biochemistry and Biotechnology, 2008, 17, 197-200.	1.7	25
68	Small Rnas: Big Role In Abiotic Stress Tolerance Of Plants. , 2007, , 223-260.		25
69	Host-Induced Silencing of FMRFamide-Like Peptide Genes, flp-1 and flp-12, in Rice Impairs Reproductive Fitness of the Root-Knot Nematode Meloidogyne graminicola. Frontiers in Plant Science, 2020, 11, 894.	3.6	24
70	Evaluation of different water absorption bands, indices and multivariate models for water-deficit stress monitoring in rice using visible-near infrared spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 247, 119104.	3.9	24
71	A Novel Stay-Green Mutant of Rice with Delayed Leaf Senescence and Better Harvest Index Confers Drought Tolerance. Plants, 2019, 8, 375.	3.5	22
72	Expression profile of genes coding for carotenoid biosynthetic pathway during ripening and their association with accumulation of lycopene in tomato fruits. Journal of Genetics, 2013, 92, 363-368.	0.7	21

#	ARTICLE	IF	CITATIONS
73	Overexpression of Arabidopsis <i>ICE1</i> enhances yield and multiple abiotic stress tolerance in indica rice. Plant Signaling and Behavior, 2020, 15, 1814547.	2.4	21
74	Plant growthâ€promoting rhizobacteria <i>Shewanella putrefaciens</i> and <i>Cronobacter dublinensis</i> enhance drought tolerance of pearl millet by modulating hormones and stressâ€responsive genes. Physiologia Plantarum, 2022, 174, e13676.	5.2	21
75	MAPK Enzymes: a ROS Activated Signaling Sensors Involved in Modulating Heat Stress Response, Tolerance and Grain Stability of Wheat under Heat Stress. 3 Biotech, 2020, 10, 380.	2.2	20
76	The abscisic acid receptor OsPYL6 confers drought tolerance to <i>indica</i> rice through dehydration avoidance and tolerance mechanisms. Journal of Experimental Botany, 2021, 72, 1411-1431.	4.8	20
77	Experimental RNomics and genomic comparative analysis reveal a large group of species-specific small non-message RNAs in the silkworm Bombyx mori. Nucleic Acids Research, 2011, 39, 3792-3805.	14.5	19
78	CO2 Elevation Accelerates Phenology and Alters Carbon/Nitrogen Metabolism vis-Ã-vis ROS Abundance in Bread Wheat. Frontiers in Plant Science, 2020, 11, 1061.	3.6	19
79	Ectopic expression of AtICE1 and OsICE1 transcription factor delays stress-induced senescence and improves tolerance to abiotic stresses in tobacco. Journal of Plant Biochemistry and Biotechnology, 2016, 25, 285-293.	1.7	18
80	Nitric oxide triggered defense network in wheat: Augmenting tolerance and grain-quality related traits under heat-induced oxidative damage. Environmental and Experimental Botany, 2019, 158, 189-204.	4.2	18
81	Cloning and characterization of a gene encoding MIZ1, a domain of unknown function protein and its role in salt and drought stress in rice. Protoplasma, 2020, 257, 475-487.	2.1	18
82	Gene network modules associated with abiotic stress response in tolerant rice genotypes identified by transcriptome meta-analysis. Functional and Integrative Genomics, 2020, 20, 29-49.	3.5	17
83	NADPH oxidase as the source of ROS produced under waterlogging in roots of mung bean. Biologia Plantarum, 2011, 55, .	1.9	16
84	Exploring the heat-responsive chaperones and microsatellite markers associated with terminal heat stress tolerance in developing wheat. Functional and Integrative Genomics, 2017, 17, 621-640.	3.5	15
85	Genome-Wide Identification and Analysis of Biotic and Abiotic Stress Regulation of C4 Photosynthetic Pathway Genes in Rice. Applied Biochemistry and Biotechnology, 2019, 187, 221-238.	2.9	15
86	Leaf mass area determines water use efficiency through its influence on carbon gain in rice mutants. Physiologia Plantarum, 2020, 169, 194-213.	5.2	15
87	Cloning and heterologous expression of ectoine biosynthesis genes from Bacillus halodurans in Escherichia coli. Biotechnology Letters, 2008, 30, 1403-1407.	2.2	14
88	The Omics of Cold Stress Responses in Plants. , 2015, , 143-194.		14
89	SSH Analysis of Endosperm Transcripts and Characterization of Heat Stress Regulated Expressed Sequence Tags in Bread Wheat. Frontiers in Plant Science, 2016, 7, 1230.	3.6	14
90	Deep Convolutional Neural Networks Based Framework for Estimation of Stomata Density and Structure from Microscopic Images. Lecture Notes in Computer Science, 2019, , 412-423.	1.3	14

#	ARTICLE	IF	CITATIONS
91	Characterizing the putative mitogen-activated protein kinase (MAPK) and their protective role in oxidative stress tolerance and carbon assimilation in wheat under terminal heat stress. Biotechnology Reports (Amsterdam, Netherlands), 2021, 29, e00597.	4.4	14
92	Plant epigenomics for extenuation of abiotic stresses: challenges and future perspectives. Journal of Experimental Botany, 2021, 72, 6836-6855.	4.8	14
93	Pup1 QTL Regulates Gene Expression Through Epigenetic Modification of DNA Under Phosphate Starvation Stress in Rice. Frontiers in Plant Science, 2022, 13, .	3.6	14
94	Genome Editing Targets for Improving Nutrient Use Efficiency and Nutrient Stress Adaptation. Frontiers in Genetics, 0, 13, .	2.3	14
95	Studies on expression of CBF1 and CBF2 genes and anti-oxidant enzyme activities in papaya genotypes exposed to low temperature stress. Scientia Horticulturae, 2020, 261, 108914.	3.6	13
96	Heterologous expression and characterization of novel manganese superoxide dismutase (Mn-SOD) â€" A potential biochemical marker for heat stress-tolerance in wheat (Triticum aestivum). International Journal of Biological Macromolecules, 2020, 161, 1029-1039.	7.5	13
97	Endogenous reduced ascorbate: an indicator of plant water deficit stress in wheat. Indian Journal of Plant Physiology, 2017, 22, 365-368.	0.8	12
98	Heterologous expression of rice RNA-binding glycine-rich (RBG) gene OsRBGD3 in transgenic Arabidopsis thaliana confers cold stress tolerance. Functional Plant Biology, 2019, 46, 482.	2.1	12
99	Genome wide in-silico miRNA and target network prediction from stress responsive Horsegram (Macrotyloma uniflorum) accessions. Scientific Reports, 2020, 10, 17203.	3.3	12
100	Web-SpikeSegNet: Deep Learning Framework for Recognition and Counting of Spikes From Visual Images of Wheat Plants. IEEE Access, 2021, 9, 76235-76247.	4.2	12
101	Carbon dioxide responsiveness mitigates rice yield loss under high night temperature. Plant Physiology, 2022, 188, 285-300.	4.8	12
102	Low temperature stress induced physiological and biochemical alterations in papaya genotypes. South African Journal of Botany, 2019, 123, 133-141.	2.5	11
103	Genetic engineering of indica rice with AtDREB1A gene for enhanced abiotic stress tolerance. Plant Cell, Tissue and Organ Culture, 2019, 136, 173-188.	2.3	11
104	Comparative analysis of index and chemometric techniques-based assessment of leaf area index (LAI) in wheat through field spectroradiometer, Landsat-8, Sentinel-2 and Hyperion bands. Geocarto International, 2020, 35, 1415-1432.	3.5	11
105	Regulation of expression of genes associated with nitrate response by osmotic stress and combined osmotic and nitrogen deficiency stress in bread wheat (Triticum aestivum L.). Plant Physiology Reports, 2020, 25, 200-215.	1.5	11
106	Stay-green trait serves as yield stability attribute under combined heat and drought stress in wheat (Triticum aestivum L.). Plant Growth Regulation, 2022, 96, 67-78.	3.4	10
107	Characterization of Atypical Protein Tyrosine Kinase (PTK) Genes and Their Role in Abiotic Stress Response in Rice. Plants, 2020, 9, 664.	3.5	9
108	Silicon triggers the signalling molecules and stress-associated genes for alleviating the adverse effect of terminal heat stress in wheat with improved grain quality. Acta Physiologiae Plantarum, 2022, 44, 1.	2.1	9

#	ARTICLE	IF	CITATIONS
109	Transmembrane START domain proteins:in silicoidentification, characterization and expression analysis under stress conditions in chickpea (Cicer arietinumL.). Plant Signaling and Behavior, 2016, 11, e992698.	2.4	8
110	Alleleâ€specific analysis of single parent backcross population identifies HOX10 transcription factor as a candidate gene regulating rice root growth. Physiologia Plantarum, 2019, 166, 596-611.	5.2	8
111	Discrimination of rice genotypes using field spectroradiometry. Geocarto International, 2020, 35, 64-77.	3.5	8
112	Unfolded protein response (UPR) mediated under heat stress in plants. Plant Physiology Reports, 2020, 25, 569-582.	1.5	8
113	Metabolite Profiling and Network Analysis Reveal Coordinated Changes in Low-N Tolerant and Low-N Sensitive Maize Genotypes under Nitrogen Deficiency and Restoration Conditions. Plants, 2020, 9, 1459.	3.5	8
114	Hybrid de novo genome-reassembly reveals new insights on pathways and pathogenicity determinants in rice blast pathogen Magnaporthe oryzae RMg_Dl. Scientific Reports, 2021, 11, 22922.	3.3	8
115	Genome-Wide Identification and Expression Analysis of the Thioredoxin (Trx) Gene Family Reveals Its Role in Leaf Rust Resistance in Wheat (Triticum aestivum L.). Frontiers in Genetics, 2022, 13, 836030.	2.3	8
116	Comparative Analysis of Fruit Transcriptome in Tomato (Solanum lycopersicum) Genotypes with Contrasting Lycopene Contents. Plant Molecular Biology Reporter, 2013, 31, 1384-1396.	1.8	7
117	Genetically Engineering Cold Stress-Tolerant Crops: Approaches and Challenges. , 2018, , 179-195.		7
118	Gamma irradiation protect the developing wheat endosperm from oxidative damage by balancing the trade-off between the defence network and grains quality. Ecotoxicology and Environmental Safety, 2019, 174, 637-648.	6.0	7
119	Characterization of the starch synthase under terminal heat stress and its effect on grain quality of wheat. 3 Biotech, 2020, 10, 531.	2.2	7
120	Gene Expression Dynamics in Rice Peduncles at the Heading Stage. Frontiers in Genetics, 2020, 11, 584678.	2.3	7
121	Weighted gene co-expression analysis for identification of key genes regulating heat stress in wheat. Cereal Research Communications, 2021, 49, 73-81.	1.6	7
122	Standardization and Validation of a LC-Method for Quantification of Indole-3-Acetic Acid in Rice Genotypes. Pesticide Research Journal, 2018, 30, 16.	0.1	7
123	Walking through crossroadsâ€"rice responses to heat and biotic stress interactions. Theoretical and Applied Genetics, 2022, 135, 4065-4081.	3.6	7
124	The role of non-symbiotic haemoglobin and nitric oxide homeostasis in waterlogging tolerance in Vigna species. Biologia Plantarum, 2012, 56, 528-536.	1.9	6
125	miR430: the novel heat-responsive microRNA identified from miRNome analysis in wheat (Triticum) Tj ETQq1 1 0.784314 rgBT /Overlock	0.8	6
126	Evolutionary and functional characterisation of glutathione peroxidases showed splicing mediated stress responses in Maize. Plant Physiology and Biochemistry, 2022, 178, 40-54.	5.8	6

#	ARTICLE	IF	CITATIONS
127	In Silico Characterization and Homology Modeling of Thylakoid bound Ascorbate Peroxidase from a Drought Tolerant Wheat Cultivar. Genomics, Proteomics and Bioinformatics, 2009, 7, 185-193.	6.9	5
128	Physiological and biochemical alterations due to low temperature stress in papaya genotypes. Indian Journal of Horticulture, 2017, 74, 491.	0.1	5
129	Leaf Counting in Rice (Oryza Sativa L.) Using Object Detection: A Deep Learning Approach. , 2020, , .		5
130	Characterization and phylogenetic analysis of ectoine biosynthesis genes from Bacillus halodurans. Archives of Microbiology, 2008, 190, 481-487.	2.2	4
131	Antioxidant Enzymes. , 2014, , 369-396.		4
132	Phenomics: unlocking the hidden genetic variation for breaking the barriers in yield and stress tolerance. Indian Journal of Plant Physiology, 2016, 21, 409-419.	0.8	4
133	Development of a QuEChERS-LCMS/MS method for simultaneous estimation of tebuconazole and chlormequat chloride in wheat crop. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2021, 56, 212-221.	1.5	4
134	Physical map of lncRNAs and lincRNAs linked with stress responsive miRs and genes network of pigeonpea (Cajanus cajan L.). Journal of Plant Biochemistry and Biotechnology, 2022, 31, 271-292.	1.7	4
135	Deployment of Brassica carinata A. Braun Derived Brassica juncea (L.) Czern. Lines for Improving Heterosis and Water Use Efficiency Under Water Deficit Stress Conditions. Frontiers in Plant Science, 2021, 12, 765645.	3.6	4
136	ABA Receptors: Prospects for Enhancing Biotic and Abiotic Stress Tolerance of Crops. , 2015, , 271-298.		3
137	In planta silencing of NSs and Hc-Pro through RNAi constructs: to develop durable resistance. Indian Journal of Plant Physiology, 2017, 22, 577-586.	0.8	3
138	NO protect the wheat embryo from oxidative damage by triggering the biochemical defence network and amylolytic activity. Plant Physiology Reports, 2019, 24, 35-45.	1.5	3
139	Identification and Characterization of NADH Kinase-3 from a Stress-Tolerant Wild Mung Bean Species (Vigna luteola (Jacq.) Benth.) with a Possible Role in Waterlogging Tolerance. Plant Molecular Biology Reporter, 2020, 38, 137-150.	1.8	3
140	Protection from terminal heat stress: a trade-off between heat-responsive transcription factors (HSFs) and stress-associated genes (SAGs) under changing environment. Cereal Research Communications, 2021, 49, 227-234.	1.6	3
141	Genomic Designing for Abiotic Stress Tolerance in Pearl Millet [Pennisetum glaucum (L.) R. Br.]. , 2021, , 223-253.		3
142	Deeper root system architecture confers better stability to photosynthesis and yield compared to shallow system under terminal drought stress in wheat (Triticum aestivum L.). Plant Physiology Reports, 0, , 1.	1.5	3
143	The Molecular Networks of Abiotic Stress Signaling. , 0, , 388-416.		2
144	Genome-wide analysis and identification of abiotic stress responsive transcription factor family genes and miRNAs in bread wheat (Triticumaestivum L.): Genomic study of bread wheat. , 2016, , .		2

#	Article	IF	Citations
145	In silico study revealed major conserve architectures and novel features of pyrabactin binding to Oryza sativa ABA receptors compare to the Arabidopsis thaliana. Journal of Biomolecular Structure and Dynamics, 2020, 38, 3211-3224.	3.5	2
146	Relative contribution of stomatal parameters in influencing WUE among rice mutants differing in leaf mass area. Plant Physiology Reports, 2020, 25, 483-495.	1.5	2
147	Kinetic properties of recombinant phosphomimic mutant of Zea mays phosphoenolpyruvate carboxylase (ZmPEPCS15D). Plant Physiology Reports, 2020, 25, 1-8.	1.5	2
148	Enhancing rice productivity in water-stressed environments: perspectives for genetic improvement and management. , 2009, , 233-257.		2
149	Cloning and characterization of drought stress-induced NAC transcription factors from<i>Brassica juncea</i>and<i>Sinapis alba</i>. Indian Journal of Genetics and Plant Breeding, 2016, 76, 233.	0.5	2
150	Association between ABA-and drought-mediated regulation of root traits and identification of potential SNPs in genes for root development in rice. Indian Journal of Genetics and Plant Breeding, 2017, 78, 48.	0.5	2
151	Editorial: Challenges and Strategies in Plant Biology Research. Indian Journal of Plant Physiology, 2016, 21, 375-376.	0.8	1
152	Genes, Genomes and Germplasm for Climate-Smart Agriculture- Part-I. Current Genomics, 2021, 22, 2-3.	1.6	1
153	Principles and Applications of RNA-Based Genome Editing for Crop Improvement. Concepts and Strategies in Plant Sciences, 2021, , 247-278.	0.5	1
154	Cloning and characterization of nutrient deficiency and salinity stress responsive<i>TaCBL4</i>gene from bread wheat (<i>Triticum aestivum</i>L.). Indian Journal of Genetics and Plant Breeding, 2016, 76, 152.	0.5	1
155	Low temperature stress induced changes in the seedling growth and nutrient content of papaya genotypes. Indian Journal of Horticulture, 2020, 77, 80.	0.1	1
156	Interactive effect of elevated CO2 and nitrogen dose reprograms grain ionome and associated gene expression in bread wheat. Plant Physiology and Biochemistry, 2022, 179, 134-143.	5.8	1
157	Epigenetic Regulation: Chromatin Modeling and Small RNAs. , 2009, , 217-241.		0
158	Genes, Genomes and Germplasm for Climate-Smart Agriculture-Part-II. Current Genomics, 2021, 22, 153-153.	1.6	0
159	Genes, Genomes and Germplasm for Climate-Smart Agriculture-Part-III. Current Genomics, 2021, 22, 391-392.	1.6	0
160	The Molecular Networks of Abiotic Stress Signaling. , 0, , 388-416.		0