

Viswanathan Chinnusamy

List of Publications by Citations

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154
papers

11,211
citations

39
h-index

105
g-index

166
ext. papers

13,300
ext. citations

5.2
avg, IF

6.45
L-index

#	Paper	IF	Citations
154	Cold stress regulation of gene expression in plants. <i>Trends in Plant Science</i> , 2007 , 12, 444-51	13.1	1241
153	ICE1: a regulator of cold-induced transcriptome and freezing tolerance in Arabidopsis. <i>Genes and Development</i> , 2003 , 17, 1043-54	12.6	1071
152	In vitro reconstitution of an abscisic acid signalling pathway. <i>Nature</i> , 2009 , 462, 660-4	50.4	833
151	Epigenetic regulation of stress responses in plants. <i>Current Opinion in Plant Biology</i> , 2009 , 12, 133-9	9.9	811
150	Molecular genetic perspectives on cross-talk and specificity in abiotic stress signalling in plants. <i>Journal of Experimental Botany</i> , 2004 , 55, 225-36	7	790
149	Understanding and Improving Salt Tolerance in Plants. <i>Crop Science</i> , 2005 , 45, 437-448	2.4	780
148	Small RNAs as big players in plant abiotic stress responses and nutrient deprivation. <i>Trends in Plant Science</i> , 2007 , 12, 301-9	13.1	726
147	A gate-latch-lock mechanism for hormone signalling by abscisic acid receptors. <i>Nature</i> , 2009 , 462, 602-8	50.4	498
146	Genome-wide classification and expression analysis of MYB transcription factor families in rice and Arabidopsis. <i>BMC Genomics</i> , 2012 , 13, 544	4.5	293
145	Gene regulation during cold stress acclimation in plants. <i>Methods in Molecular Biology</i> , 2010 , 639, 39-55	1.4	257
144	Gene regulation during cold acclimation in plants. <i>Physiologia Plantarum</i> , 2006 , 126, 52-61	4.6	237
143	Abscisic acid-mediated epigenetic processes in plant development and stress responses. <i>Journal of Integrative Plant Biology</i> , 2008 , 50, 1187-95	8.3	231
142	The role of microRNAs and other endogenous small RNAs in plant stress responses. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2008 , 1779, 743-8	6	211
141	Comparative analysis of drought-responsive transcriptome in Indica rice genotypes with contrasting drought tolerance. <i>Plant Biotechnology Journal</i> , 2011 , 9, 315-27	11.6	193
140	Salt stress signaling and mechanisms of plant salt tolerance. <i>Genetic Engineering</i> , 2006 , 27, 141-77		173
139	Abiotic stress and ABA-inducible Group 4 LEA from Brassica napus plays a key role in salt and drought tolerance. <i>Journal of Biotechnology</i> , 2009 , 139, 137-45	3.7	143
138	Identification and mechanism of ABA receptor antagonism. <i>Nature Structural and Molecular Biology</i> , 2010 , 17, 1102-8	17.6	123

137	Waterlogging-induced increase in sugar mobilization, fermentation, and related gene expression in the roots of mung bean (<i>Vigna radiata</i>). <i>Journal of Plant Physiology</i> , 2009 , 166, 602-16	3.6	98
136	Arabidopsis proline-rich protein important for development and abiotic stress tolerance is involved in microRNA biogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 18198-203	11.5	97
135	Molecular genetic analysis of cold-regulated gene transcription. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2002 , 357, 877-86	5.8	90
134	STA1, an Arabidopsis pre-mRNA processing factor 6 homolog, is a new player involved in miRNA biogenesis. <i>Nucleic Acids Research</i> , 2013 , 41, 1984-97	20.1	86
133	The unique mode of action of a divergent member of the ABA-receptor protein family in ABA and stress signaling. <i>Cell Research</i> , 2013 , 23, 1380-95	24.7	85
132	Epigenetics of Modified DNA Bases: 5-Methylcytosine and Beyond. <i>Frontiers in Genetics</i> , 2018 , 9, 640	4.5	84
131	RAS1, a quantitative trait locus for salt tolerance and ABA sensitivity in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 5669-74	11.5	79
130	Genome-wide identification and analysis of biotic and abiotic stress regulation of small heat shock protein (HSP20) family genes in bread wheat. <i>Journal of Plant Physiology</i> , 2017 , 211, 100-113	3.6	76
129	RNA-directed DNA methylation and demethylation in plants. <i>Science in China Series C: Life Sciences</i> , 2009 , 52, 331-43		73
128	CRISPR-Cas9 mediated genome editing of () gene in mega rice cultivar MTU1010. <i>Physiology and Molecular Biology of Plants</i> , 2020 , 26, 1099-1110	2.8	71
127	Effect of waterlogging on carbohydrate metabolism in pigeon pea (<i>Cajanus cajan</i> L.): Upregulation of sucrose synthase and alcohol dehydrogenase. <i>Plant Science</i> , 2008 , 175, 706-716	5.3	69
126	Effect of Heat Stress on Grain Growth, Starch Synthesis and Protein Synthesis in Grains of Wheat (<i>Triticum aestivum</i> L.) Varieties Differing in Grain Weight Stability. <i>Journal of Agronomy and Crop Science</i> , 2001 , 186, 1-7	3.9	63
125	Waterlogging induced oxidative stress and antioxidant enzyme activities in pigeon pea. <i>Biologia Plantarum</i> , 2009 , 53, 493-504	2.1	56
124	Identification of novel drought-responsive microRNAs and trans-acting siRNAs from Sorghum bicolor (L.) Moench by high-throughput sequencing analysis. <i>Frontiers in Plant Science</i> , 2015 , 6, 506	6.2	52
123	Auxin protects spikelet fertility and grain yield under drought and heat stresses in rice. <i>Environmental and Experimental Botany</i> , 2018 , 150, 9-24	5.9	50
122	Transcriptional Regulatory Network Analysis of MYB Transcription Factor Family Genes in Rice. <i>Frontiers in Plant Science</i> , 2015 , 6, 1157	6.2	48
121	Plant salt tolerance. <i>Topics in Current Genetics</i> , 2003 , 241-270		47
120	Genome-wide targeted prediction of ABA responsive genes in rice based on over-represented cis-motif in co-expressed genes. <i>Plant Molecular Biology</i> , 2009 , 69, 261-71	4.6	45

119	Evaluation of heat stress tolerance in irrigated environment of <i>T. aestivum</i> and related species. I. Stability in yield and yield components. <i>Euphytica</i> , 1999 , 106, 169-180	2.1	43
118	Comparison of various modelling approaches for water deficit stress monitoring in rice crop through hyperspectral remote sensing. <i>Agricultural Water Management</i> , 2019 , 213, 231-244	5.9	41
117	ROP11 GTPase negatively regulates ABA signaling by protecting ABI1 phosphatase activity from inhibition by the ABA receptor RCAR1/PYL9 in Arabidopsis. <i>Journal of Integrative Plant Biology</i> , 2012 , 54, 180-8	8.3	40
116	Mechanisms of small RNA generation from cis-NATs in response to environmental and developmental cues. <i>Molecular Plant</i> , 2013 , 6, 704-15	14.4	40
115	Starch accumulation in rice grains subjected to drought during grain filling stage. <i>Plant Physiology and Biochemistry</i> , 2019 , 142, 440-451	5.4	39
114	Isolation and functional characterization of lycopene beta-cyclase (CYC-B) promoter from <i>Solanum habrochaites</i> . <i>BMC Plant Biology</i> , 2010 , 10, 61	5.3	39
113	Quantitative monitoring of sucrose, reducing sugar and total sugar dynamics for phenotyping of water-deficit stress tolerance in rice through spectroscopy and chemometrics. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 192, 41-51	4.4	38
112	Expression of antioxidant defense genes in mung bean (<i>Vigna radiata</i> L.) roots under water-logging is associated with hypoxia tolerance. <i>Acta Physiologiae Plantarum</i> , 2011 , 33, 735-744	2.6	37
111	Comparison of different uni- and multi-variate techniques for monitoring leaf water status as an indicator of water-deficit stress in wheat through spectroscopy. <i>Biosystems Engineering</i> , 2017 , 160, 69-83	4.8	35
110	Ectopic Expression of Rice PYL3 Enhances Cold and Drought Tolerance in <i>Arabidopsis thaliana</i> . <i>Molecular Biotechnology</i> , 2018 , 60, 350-361	3	34
109	Nuclear RNA export and its importance in abiotic stress responses of plants. <i>Current Topics in Microbiology and Immunology</i> , 2008 , 326, 235-55	3.3	34
108	Screening for gene regulation mutants by bioluminescence imaging. <i>Science Signaling</i> , 2002 , 2002, p10	8.8	34
107	Harnessing Next Generation Sequencing in Climate Change: RNA-Seq Analysis of Heat Stress-Responsive Genes in Wheat (<i>Triticum aestivum</i> L.). <i>OMICS A Journal of Integrative Biology</i> , 2015 , 19, 632-47	3.8	32
106	Identification of miRNAs in sorghum by using bioinformatics approach. <i>Plant Signaling and Behavior</i> , 2012 , 7, 246-59	2.5	32
105	Magnetopriming circumvents the effect of salinity stress on germination in chickpea seeds. <i>Acta Physiologiae Plantarum</i> , 2013 , 35, 3401-3411	2.6	29
104	Identification of Putative RuBisCo Activase (TaRca1)-The Catalytic Chaperone Regulating Carbon Assimilatory Pathway in Wheat (<i>Triticum aestivum</i>) under the Heat Stress. <i>Frontiers in Plant Science</i> , 2016 , 7, 986	6.2	28
103	The Role of the Epigenome in Gene Expression Control and the Epimark Changes in Response to the Environment. <i>Critical Reviews in Plant Sciences</i> , 2014 , 33, 64-87	5.6	26
102	Differential Regulation of Genes Coding for Organelle and Cytosolic ClpATPases under Biotic and Abiotic Stresses in Wheat. <i>Frontiers in Plant Science</i> , 2016 , 7, 929	6.2	26

101	Differential transcript abundance of salt overly sensitive (SOS) pathway genes is a determinant of salinity stress tolerance of wheat. <i>Acta Physiologiae Plantarum</i> , 2015 , 37, 1	2.6	25
100	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
99	Overexpression of ABA Receptor Gene Confers Drought and Cold Tolerance to Indica Rice. <i>Frontiers in Plant Science</i> , 2019 , 10, 1488	6.2	25
98	Effect of Heat Stress on Grain Starch Content in Diploid, Tetraploid and Hexaploid Wheat Species. <i>Journal of Agronomy and Crop Science</i> , 2003 , 189, 242-249	3.9	24
97	Characterization of novel heat-responsive transcription factor (TaHSFA6e) gene involved in regulation of heat shock proteins (HSPs) - A key member of heat stress-tolerance network of wheat. <i>Journal of Biotechnology</i> , 2018 , 279, 1-12	3.7	23
96	A Simplified Floral Dip Method for Transformation of Brassica napus and B. carinata. <i>Journal of Plant Biochemistry and Biotechnology</i> , 2008 , 17, 197-200	1.6	22
95	Small Rnas: Big Role In Abiotic Stress Tolerance Of Plants 2007 , 223-260		21
94	Identification of conserved drought stress responsive gene-network across tissues and developmental stages in rice. <i>Bioinformatics</i> , 2013 , 9, 72-8	1.1	20
93	Phenotyping and characterization of heat stress tolerance at reproductive stage in rice (<i>Oryza sativa</i> L.). <i>Acta Physiologiae Plantarum</i> , 2020 , 42, 1	2.6	19
92	Expression profile of genes coding for carotenoid biosynthetic pathway during ripening and their association with accumulation of lycopene in tomato fruits. <i>Journal of Genetics</i> , 2013 , 92, 363-8	1.2	19
91	Biochemical Defense Response: Characterizing the Plasticity of Source and Sink in Spring Wheat under Terminal Heat Stress. <i>Frontiers in Plant Science</i> , 2017 , 8, 1603	6.2	19
90	Quantitative proteomic analysis reveals novel stress-associated active proteins (SAAPs) and pathways involved in modulating tolerance of wheat under terminal heat. <i>Functional and Integrative Genomics</i> , 2019 , 19, 329-348	3.8	19
89	Experimental RNomics and genomic comparative analysis reveal a large group of species-specific small non-message RNAs in the silkworm <i>Bombyx mori</i> . <i>Nucleic Acids Research</i> , 2011 , 39, 3792-805	20.1	15
88	A Novel Stay-Green Mutant of Rice with Delayed Leaf Senescence and Better Harvest Index Confers Drought Tolerance. <i>Plants</i> , 2019 , 8,	4.5	14
87	RuBisCo activaseβ catalytic chaperone involved in modulating the RuBisCo activity and heat stress-tolerance in wheat. <i>Journal of Plant Biochemistry and Biotechnology</i> , 2019 , 28, 63-75	1.6	14
86	NADPH oxidase as the source of ROS produced under waterlogging in roots of mung bean. <i>Biologia Plantarum</i> , 2011 , 55,	2.1	14
85	Ectopic expression of AtICE1 and OsICE1 transcription factor delays stress-induced senescence and improves tolerance to abiotic stresses in tobacco. <i>Journal of Plant Biochemistry and Biotechnology</i> , 2016 , 25, 285-293	1.6	13
84	Application of thermal imaging and hyperspectral remote sensing for crop water deficit stress monitoring. <i>Geocarto International</i> , 2021 , 36, 481-498	2.7	13

83	Cloning and heterologous expression of ectoine biosynthesis genes from <i>Bacillus halodurans</i> in <i>Escherichia coli</i> . <i>Biotechnology Letters</i> , 2008 , 30, 1403-7	3	12
82	SSH Analysis of Endosperm Transcripts and Characterization of Heat Stress Regulated Expressed Sequence Tags in Bread Wheat. <i>Frontiers in Plant Science</i> , 2016 , 7, 1230	6.2	12
81	Nitric oxide triggered defense network in wheat: Augmenting tolerance and grain-quality related traits under heat-induced oxidative damage. <i>Environmental and Experimental Botany</i> , 2019 , 158, 189-204	5.9	12
80	Genome wide analysis of NLP transcription factors reveals their role in nitrogen stress tolerance of rice. <i>Scientific Reports</i> , 2020 , 10, 9368	4.9	11
79	Exploring the heat-responsive chaperones and microsatellite markers associated with terminal heat stress tolerance in developing wheat. <i>Functional and Integrative Genomics</i> , 2017 , 17, 621-640	3.8	10
78	Genome-wide identification and characterization of ABA receptor PYL gene family in rice. <i>BMC Genomics</i> , 2020 , 21, 676	4.5	10
77	Evaluation of different water absorption bands, indices and multivariate models for water-deficit stress monitoring in rice using visible-near infrared spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 247, 119104	4.4	10
76	Endogenous reduced ascorbate: an indicator of plant water deficit stress in wheat. <i>Indian Journal of Plant Physiology</i> , 2017 , 22, 365-368		9
75	MAPK Enzymes: a ROS Activated Signaling Sensors Involved in Modulating Heat Stress Response, Tolerance and Grain Stability of Wheat under Heat Stress. <i>3 Biotech</i> , 2020 , 10, 380	2.8	9
74	Host-Induced Silencing of FMRFamide-Like Peptide Genes, and , in Rice Impairs Reproductive Fitness of the Root-Knot Nematode. <i>Frontiers in Plant Science</i> , 2020 , 11, 894	6.2	9
73	Heterologous expression of rice RNA-binding glycine-rich (RBG) gene OsRBGD3 in transgenic <i>Arabidopsis thaliana</i> confers cold stress tolerance. <i>Functional Plant Biology</i> , 2019 , 46, 482-491	2.7	8
72	Epigenetic regulation of abiotic stress responses in plants 2014 , 203-229		8
71	The Omics of Cold Stress Responses in Plants 2015 , 143-194		8
70	Leaf mass area determines water use efficiency through its influence on carbon gain in rice mutants. <i>Physiologia Plantarum</i> , 2020 , 169, 194-213	4.6	8
69	CO Elevation Accelerates Phenology and Alters Carbon/Nitrogen Metabolism ROS Abundance in Bread Wheat. <i>Frontiers in Plant Science</i> , 2020 , 11, 1061	6.2	8
68	Overexpression of <i>Arabidopsis</i> enhances yield and multiple abiotic stress tolerance in indica rice. <i>Plant Signaling and Behavior</i> , 2020 , 15, 1814547	2.5	8
67	Allele-specific analysis of single parent backcross population identifies HOX10 transcription factor as a candidate gene regulating rice root growth. <i>Physiologia Plantarum</i> , 2019 , 166, 596-611	4.6	8
66	Genetic engineering of indica rice with AtDREB1A gene for enhanced abiotic stress tolerance. <i>Plant Cell, Tissue and Organ Culture</i> , 2019 , 136, 173-188	2.7	8

65	Transmembrane START domain proteins: in silico identification, characterization and expression analysis under stress conditions in chickpea (<i>Cicer arietinum</i> L.). <i>Plant Signaling and Behavior</i> , 2016 , 11, e992698	2.5	7
64	Genome-Wide Identification and Analysis of Biotic and Abiotic Stress Regulation of C Photosynthetic Pathway Genes in Rice. <i>Applied Biochemistry and Biotechnology</i> , 2019 , 187, 221-238	3.2	7
63	Gene network modules associated with abiotic stress response in tolerant rice genotypes identified by transcriptome meta-analysis. <i>Functional and Integrative Genomics</i> , 2020 , 20, 29-49	3.8	7
62	Deep Convolutional Neural Networks Based Framework for Estimation of Stomata Density and Structure from Microscopic Images. <i>Lecture Notes in Computer Science</i> , 2019 , 412-423	0.9	6
61	Gamma irradiation protect the developing wheat endosperm from oxidative damage by balancing the trade-off between the defence network and grains quality. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 174, 637-648	7	6
60	Regulation of expression of genes associated with nitrate response by osmotic stress and combined osmotic and nitrogen deficiency stress in bread wheat (<i>Triticum aestivum</i> L.). <i>Plant Physiology Reports</i> , 2020 , 25, 200-215	1.4	6
59	The Molecular Networks of Abiotic Stress Signaling 2018 , 388-416		6
58	Comparative Analysis of Fruit Transcriptome in Tomato (<i>Solanum lycopersicum</i>) Genotypes with Contrasting Lycopene Contents. <i>Plant Molecular Biology Reporter</i> , 2013 , 31, 1384-1396	1.7	6
57	Genome wide in-silico miRNA and target network prediction from stress responsive Horsegram (<i>Macrotyloma uniflorum</i>) accessions. <i>Scientific Reports</i> , 2020 , 10, 17203	4.9	6
56	Discrimination of rice genotypes using field spectroradiometry. <i>Geocarto International</i> , 2020 , 35, 64-77	2.7	6
55	miR430: the novel heat-responsive microRNA identified from miRNome analysis in wheat (<i>Triticum aestivum</i> L.). <i>Indian Journal of Plant Physiology</i> , 2017 , 22, 566-576		5
54	Standardization and Validation of a LC-Method for Quantification of Indole-3-Acetic Acid in Rice Genotypes. <i>Pesticide Research Journal</i> , 2018 , 30, 16	0.6	5
53	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. <i>Geocarto International</i> , 2020 , 35, 1415-1432	2.7	5
52	The abscisic acid receptor OsPYL6 confers drought tolerance to indica rice through dehydration avoidance and tolerance mechanisms. <i>Journal of Experimental Botany</i> , 2021 , 72, 1411-1431	7	5
51	Unfolded protein response (UPR) mediated under heat stress in plants. <i>Plant Physiology Reports</i> , 2020 , 25, 569-582	1.4	4
50	Heterologous expression and characterization of novel manganese superoxide dismutase (Mn-SOD) - A potential biochemical marker for heat stress-tolerance in wheat (<i>Triticum aestivum</i>). <i>International Journal of Biological Macromolecules</i> , 2020 , 161, 1029-1039	7.9	4
49	The role of non-symbiotic haemoglobin and nitric oxide homeostasis in waterlogging tolerance in <i>Vigna</i> species. <i>Biologia Plantarum</i> , 2012 , 56, 528-536	2.1	4
48	Characterization and phylogenetic analysis of ectoine biosynthesis genes from <i>Bacillus halodurans</i> . <i>Archives of Microbiology</i> , 2008 , 190, 481-7	3	4

47	Cloning and characterization of a gene encoding MIZ1, a domain of unknown function protein and its role in salt and drought stress in rice. <i>Protoplasma</i> , 2020 , 257, 475-487	3-4	4
46	Gene Expression Dynamics in Rice Peduncles at the Heading Stage. <i>Frontiers in Genetics</i> , 2020 , 11, 584678	4.5	4
45	Characterizing the putative mitogen-activated protein kinase () and their protective role in oxidative stress tolerance and carbon assimilation in wheat under terminal heat stress. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2021 , 29, e00597	5-3	4
44	. <i>IEEE Access</i> , 2021 , 1-1	3-5	4
43	Genetically Engineering Cold Stress-Tolerant Crops: Approaches and Challenges 2018 , 179-195		4
42	Low temperature stress induced physiological and biochemical alterations in papaya genotypes. <i>South African Journal of Botany</i> , 2019 , 123, 133-141	2-9	3
41	Metabolite Profiling and Network Analysis Reveal Coordinated Changes in Low-N Tolerant and Low-N Sensitive Maize Genotypes under Nitrogen Deficiency and Restoration Conditions. <i>Plants</i> , 2020 , 9,	4-5	3
40	Antioxidant Enzymes 2014 , 369-396		3
39	In planta silencing of NSs and Hc-Pro through RNAi constructs: to develop durable resistance. <i>Indian Journal of Plant Physiology</i> , 2017 , 22, 577-586		3
38	ABA Receptors: Prospects for Enhancing Biotic and Abiotic Stress Tolerance of Crops 2015 , 271-298		3
37	Sorghum: Improvement of Abiotic Stress Tolerance 2012 , 923-950		3
36	In silico characterization and homology modeling of thylakoid-bound ascorbate peroxidase from a drought tolerant wheat cultivar. <i>Genomics, Proteomics and Bioinformatics</i> , 2009 , 7, 185-93	6-5	3
35	Hybrid de novo genome-reassembly reveals new insights on pathways and pathogenicity determinants in rice blast pathogen <i>Magnaporthe oryzae</i> RMg_DL. <i>Scientific Reports</i> , 2021 , 11, 22922	4-9	3
34	Physiological and biochemical alterations due to low temperature stress in papaya genotypes. <i>Indian Journal of Horticulture</i> , 2017 , 74, 491	1-1	3
33	Studies on expression of CBF1 and CBF2 genes and anti-oxidant enzyme activities in papaya genotypes exposed to low temperature stress. <i>Scientia Horticulturae</i> , 2020 , 261, 108914	4-1	3
32	Plant epigenomics for extenuation of abiotic stresses: challenges and future perspectives. <i>Journal of Experimental Botany</i> , 2021 , 72, 6836-6855	7	3
31	Weighted gene co-expression analysis for identification of key genes regulating heat stress in wheat. <i>Cereal Research Communications</i> , 2021 , 49, 73-81	1-1	3
30	NO protect the wheat embryo from oxidative damage by triggering the biochemical defence network and amylolytic activity. <i>Plant Physiology Reports</i> , 2019 , 24, 35-45	1-4	2

29	Characterization of Atypical Protein Tyrosine Kinase (PTK) Genes and Their Role in Abiotic Stress Response in Rice. <i>Plants</i> , 2020 , 9,	4.5	2
28	Phenomics: unlocking the hidden genetic variation for breaking the barriers in yield and stress tolerance. <i>Indian Journal of Plant Physiology</i> , 2016 , 21, 409-419		2
27	Enhancing rice productivity in water-stressed environments: perspectives for genetic improvement and management 2009 , 233-257		2
26	Cloning and characterization of drought stress-induced NAC transcription factors from Brassica juncea and Sinapis alba. <i>Indian Journal of Genetics and Plant Breeding</i> , 2016 , 76, 233	1.7	2
25	Characterization of the starch synthase under terminal heat stress and its effect on grain quality of wheat. <i>3 Biotech</i> , 2020 , 10, 531	2.8	2
24	study revealed major conserve architectures and novel features of pyrabactin binding to ABA receptors compare to the. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020 , 38, 3211-3224	3.6	2
23	Protection from terminal heat stress: a trade-off between heat-responsive transcription factors (HSFs) and stress-associated genes (SAGs) under changing environment. <i>Cereal Research Communications</i> , 2021 , 49, 227-234	1.1	2
22	Genomic Designing for Abiotic Stress Tolerance in Pearl Millet [Pennisetum glaucum (L.) R. Br.] 2021 , 223-253		2
21	Kinetic properties of recombinant phosphomimic mutant of Zea mays phosphoenolpyruvate carboxylase (ZmPEPCS15D). <i>Plant Physiology Reports</i> , 2020 , 25, 1-8	1.4	1
20	Epigenetics Connects the Genome to Its Environment 2014 , 69-142		1
19	Functional Genomics and Computational Biology Tools for Gene Discovery for Abiotic Stress Tolerance 2012 , 321-335		1
18	The Molecular Networks of Abiotic Stress Signaling 388-416		1
17	Silicon triggers the signalling molecules and stress-associated genes for alleviating the adverse effect of terminal heat stress in wheat with improved grain quality. <i>Acta Physiologiae Plantarum</i> , 2022 , 44, 1	2.6	1
16	Deployment of A. Braun Derived (L.) Czern. Lines for Improving Heterosis and Water Use Efficiency Under Water Deficit Stress Conditions.. <i>Frontiers in Plant Science</i> , 2021 , 12, 765645	6.2	1
15	Stay-green trait serves as yield stability attribute under combined heat and drought stress in wheat (Triticum aestivum L.). <i>Plant Growth Regulation</i> , 2022 , 96, 67	3.2	1
14	Carbon dioxide responsiveness mitigates rice yield loss under high night temperature. <i>Plant Physiology</i> , 2021 ,	6.6	1
13	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. <i>Plant Molecular Biology Reporter</i> , 2020 , 38, 137-150	1.7	1
12	Physical map of lncRNAs and lincRNAs linked with stress responsive miRs and genes network of pigeonpea (Cajanus cajan L.). <i>Journal of Plant Biochemistry and Biotechnology</i> , 1	1.6	1

11	Genome-wide analysis and identification of abiotic stress responsive transcription factor family genes and miRNAs in bread wheat (<i>Triticumaestivum</i> L.): Genomic study of bread wheat 2016 ,		1
10	Development of a QuEChERS-LCMS/MS method for simultaneous estimation of tebuconazole and chlormequat chloride in wheat crop. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2021 , 56, 212-221	2.2	1
9	Principles and Applications of RNA-Based Genome Editing for Crop Improvement. <i>Concepts and Strategies in Plant Sciences</i> , 2021 , 247-278	0.5	1
8	Deeper root system architecture confers better stability to photosynthesis and yield compared to shallow system under terminal drought stress in wheat (<i>Triticum aestivum</i> L.). <i>Plant Physiology Reports</i> , ¹	1.4	1
7	Relative contribution of stomatal parameters in influencing WUE among rice mutants differing in leaf mass area. <i>Plant Physiology Reports</i> , 2020 , 25, 483-495	1.4	0
6	Genome-Wide Identification and Expression Analysis of the Thioredoxin () Gene Family Reveals Its Role in Leaf Rust Resistance in Wheat (L.).. <i>Frontiers in Genetics</i> , 2022 , 13, 836030	4.5	0
5	PGPR <i>Shewanella putrefaciens</i> and <i>Cronobacter dublinensis</i> enhance drought tolerance of pearl millet by modulating hormones and stress-responsive genes.. <i>Physiologia Plantarum</i> , 2022 , e13676	4.6	0
4	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
3	Epigenetic Regulation: Chromatin Modeling and Small RNAs 2009 , 217-241		
2	Genes, Genomes and Germplasm for Climate-Smart Agriculture-Part-II.. <i>Current Genomics</i> , 2021 , 22, 153 2.6		
1	Interactive effect of elevated CO and nitrogen dose reprograms grain ionome and associated gene expression in bread wheat.. <i>Plant Physiology and Biochemistry</i> , 2022 , 179, 134-143	5.4	