

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 | Physical map of lncRNAs and lincRNAs linked with stress responsive miRs and genes network of pigeonpea (<i>Cajanus cajan</i> L.). <i>Journal of Plant Biochemistry and Biotechnology</i> , 2022, 31, 271-292. | 1.7 | 4 |
| 2 | Stay-green trait serves as yield stability attribute under combined heat and drought stress in wheat (<i>Triticum aestivum</i> L.). <i>Plant Growth Regulation</i> , 2022, 96, 67-78. | 3.4 | 10 |
| 3 | Carbon dioxide responsiveness mitigates rice yield loss under high night temperature. <i>Plant Physiology</i> , 2022, 188, 285-300. | 4.8 | 12 |
| 4 | 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. | 2.1 | 9 |
| 5 | Genome-Wide Identification and Expression Analysis of the Thioredoxin (Trx) Gene Family Reveals Its Role in Leaf Rust Resistance in Wheat (<i>Triticum aestivum</i> L.). <i>Frontiers in Genetics</i> , 2022, 13, 836030. | 2.3 | 8 |
| 6 | Plant growth-promoting rhizobacteria <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, 174, e13676. | 5.2 | 21 |
| 7 | Evolutionary and functional characterisation of glutathione peroxidases showed splicing mediated stress responses in Maize. <i>Plant Physiology and Biochemistry</i> , 2022, 178, 40-54. | 5.8 | 6 |
| 8 | Interactive effect of elevated CO ₂ and nitrogen dose reprograms grain ionome and associated gene expression in bread wheat. <i>Plant Physiology and Biochemistry</i> , 2022, 179, 134-143. | 5.8 | 1 |
| 9 | Pup1 QTL Regulates Gene Expression Through Epigenetic Modification of DNA Under Phosphate Starvation Stress in Rice. <i>Frontiers in Plant Science</i> , 2022, 13, . | 3.6 | 14 |
| 10 | Walking through crossroads—rice responses to heat and biotic stress interactions. <i>Theoretical and Applied Genetics</i> , 2022, 135, 4065-4081. | 3.6 | 7 |
| 11 | Application of thermal imaging and hyperspectral remote sensing for crop water deficit stress monitoring. <i>Geocarto International</i> , 2021, 36, 481-498. | 3.5 | 29 |
| 12 | 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. | 3.9 | 24 |
| 13 | 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. | 1.6 | 3 |
| 14 | The abscisic acid receptor OsPYL6 confers drought tolerance to <i>indica</i> rice through dehydration avoidance and tolerance mechanisms. <i>Journal of Experimental Botany</i> , 2021, 72, 1411-1431. | 4.8 | 20 |
| 15 | Weighted gene co-expression analysis for identification of key genes regulating heat stress in wheat. <i>Cereal Research Communications</i> , 2021, 49, 73-81. | 1.6 | 7 |
| 16 | Web-SpikeSegNet: Deep Learning Framework for Recognition and Counting of Spikes From Visual Images of Wheat Plants. <i>IEEE Access</i> , 2021, 9, 76235-76247. | 4.2 | 12 |
| 17 | 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. | 1.5 | 4 |
| 18 | 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. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2021, 29, e00597. | 4.4 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Genes, Genomes and Germplasm for Climate-Smart Agriculture- Part-I. <i>Current Genomics</i> , 2021, 22, 2-3. | 1.6 | 1 |
| 20 | Plant epigenomics for extenuation of abiotic stresses: challenges and future perspectives. <i>Journal of Experimental Botany</i> , 2021, 72, 6836-6855. | 4.8 | 14 |
| 21 | Genomic Designing for Abiotic Stress Tolerance in Pearl Millet [<i>Pennisetum glaucum</i> (L.) R. Br.], 2021, , 223-253. | | 3 |
| 22 | 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 |
| 23 | Genes, Genomes and Germplasm for Climate-Smart Agriculture-Part-II. <i>Current Genomics</i> , 2021, 22, 153-153. | 1.6 | 0 |
| 24 | Deployment of Brassica carinata A. Braun Derived Brassica juncea (L.) Czern. Lines for Improving Heterosis and Water Use Efficiency Under Water Deficit Stress Conditions. <i>Frontiers in Plant Science</i> , 2021, 12, 765645. | 3.6 | 4 |
| 25 | 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. | 3.3 | 8 |
| 26 | Genes, Genomes and Germplasm for Climate-Smart Agriculture-Part-III. <i>Current Genomics</i> , 2021, 22, 391-392. | 1.6 | 0 |
| 27 | 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. | 3.5 | 11 |
| 28 | Discrimination of rice genotypes using field spectroradiometry. <i>Geocarto International</i> , 2020, 35, 64-77. | 3.5 | 8 |
| 29 | In silico study revealed major conserve architectures and novel features of pyrabactin binding to <i>Oryza sativa</i> ABA receptors compare to the <i>Arabidopsis thaliana</i> . <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 3211-3224. | 3.5 | 2 |
| 30 | 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. | 3.5 | 17 |
| 31 | Identification and Characterization of NADH Kinase-3 from a Stress-Tolerant Wild Mung Bean Species (<i>Vigna luteola</i> (Jacq.) Benth.) with a Possible Role in Waterlogging Tolerance. <i>Plant Molecular Biology Reporter</i> , 2020, 38, 137-150. | 1.8 | 3 |
| 32 | Leaf mass area determines water use efficiency through its influence on carbon gain in rice mutants. <i>Physiologia Plantarum</i> , 2020, 169, 194-213. | 5.2 | 15 |
| 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. | 3.6 | 13 |
| 34 | 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. | 2.1 | 18 |
| 35 | Genome-wide identification and characterization of ABA receptor PYL gene family in rice. <i>BMC Genomics</i> , 2020, 21, 676. | 2.8 | 42 |
| 36 | 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. | 3.3 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | 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 |
| 40 | CO2 Elevation Accelerates Phenology and Alters Carbon/Nitrogen Metabolism vis-À-vis ROS Abundance in Bread Wheat. Frontiers in Plant Science, 2020, 11, 1061. | 3.6 | 19 |
| 41 | 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 |
| 42 | 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 |
| 43 | Gene Expression Dynamics in Rice Peduncles at the Heading Stage. Frontiers in Genetics, 2020, 11, 584678. | 2.3 | 7 |
| 44 | Unfolded protein response (UPR) mediated under heat stress in plants. Plant Physiology Reports, 2020, 25, 569-582. | 1.5 | 8 |
| 45 | 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 |
| 46 | Characterization of Atypical Protein Tyrosine Kinase (PTK) Genes and Their Role in Abiotic Stress Response in Rice. Plants, 2020, 9, 664. | 3.5 | 9 |
| 47 | 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 |
| 48 | Genome wide analysis of NLP transcription factors reveals their role in nitrogen stress tolerance of rice. Scientific Reports, 2020, 10, 9368. | 3.3 | 31 |
| 49 | Heterologous expression and characterization of novel manganese superoxide dismutase (Mn-SOD) "A potential biochemical marker for heat stress-tolerance in wheat (Triticum aestivum). International Journal of Biological Macromolecules, 2020, 161, 1029-1039. | 7.5 | 13 |
| 50 | 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 |
| 51 | Kinetic properties of recombinant phosphomimic mutant of Zea mays phosphoenolpyruvate carboxylase (ZmPEPCS15D). Plant Physiology Reports, 2020, 25, 1-8. | 1.5 | 2 |
| 52 | 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 |
| 53 | Phenotyping and characterization of heat stress tolerance at reproductive stage in rice (Oryza sativa) Tj ETQq1 1 0,784314 rgBT /Over | 2.1 | 95 |
| 54 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Leaf Counting in Rice (<i>Oryza Sativa</i> L.) Using Object Detection: A Deep Learning Approach. , 2020, , . | | 5 |
| 56 | Genome-Wide Identification and Analysis of Biotic and Abiotic Stress Regulation of C4 Photosynthetic Pathway Genes in Rice. <i>Applied Biochemistry and Biotechnology</i> , 2019, 187, 221-238. | 2.9 | 15 |
| 57 | RuBisCo activaseâ€”a 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. | 1.7 | 26 |
| 58 | Starch accumulation in rice grains subjected to drought during grain filling stage. <i>Plant Physiology and Biochemistry</i> , 2019, 142, 440-451. | 5.8 | 82 |
| 59 | A Novel Stay-Green Mutant of Rice with Delayed Leaf Senescence and Better Harvest Index Confers Drought Tolerance. <i>Plants</i> , 2019, 8, 375. | 3.5 | 22 |
| 60 | 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. | 1.3 | 14 |
| 61 | NO protect the wheat embryo from oxidative damage by triggering the biochemical defence network and amyolytic activity. <i>Plant Physiology Reports</i> , 2019, 24, 35-45. | 1.5 | 3 |
| 62 | Low temperature stress induced physiological and biochemical alterations in papaya genotypes. <i>South African Journal of Botany</i> , 2019, 123, 133-141. | 2.5 | 11 |
| 63 | 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. | 6.0 | 7 |
| 64 | Heterologous expression of rice RNA-binding glycine-rich (RBG) gene <i>OsRBGD3</i> in transgenic <i>Arabidopsis thaliana</i> confers cold stress tolerance. <i>Functional Plant Biology</i> , 2019, 46, 482. | 2.1 | 12 |
| 65 | Overexpression of ABA Receptor <i>PYL10</i> Gene Confers Drought and Cold Tolerance to Indica Rice. <i>Frontiers in Plant Science</i> , 2019, 10, 1488. | 3.6 | 55 |
| 66 | Alleleâ€”specific analysis of single parent backcross population identifies <i>HOX10</i> transcription factor as a candidate gene regulating rice root growth. <i>Physiologia Plantarum</i> , 2019, 166, 596-611. | 5.2 | 8 |
| 67 | Genetic engineering of indica rice with <i>AtDREB1A</i> gene for enhanced abiotic stress tolerance. <i>Plant Cell, Tissue and Organ Culture</i> , 2019, 136, 173-188. | 2.3 | 11 |
| 68 | 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. | 3.5 | 29 |
| 69 | 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. | 5.6 | 69 |
| 70 | 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. | 4.2 | 18 |
| 71 | Auxin protects spikelet fertility and grain yield under drought and heat stresses in rice. <i>Environmental and Experimental Botany</i> , 2018, 150, 9-24. | 4.2 | 79 |
| 72 | Ectopic Expression of Rice <i>PYL3</i> Enhances Cold and Drought Tolerance in <i>Arabidopsis thaliana</i> . <i>Molecular Biotechnology</i> , 2018, 60, 350-361. | 2.4 | 58 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | 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. | 3.9 | 48 |
| 74 | Genetically Engineering Cold Stress-Tolerant Crops: Approaches and Challenges. , 2018, , 179-195. | | 7 |
| 75 | Epigenetics of Modified DNA Bases: 5-Methylcytosine and Beyond. <i>Frontiers in Genetics</i> , 2018, 9, 640. | 2.3 | 181 |
| 76 | 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. | 3.8 | 45 |
| 77 | 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. | 0.1 | 7 |
| 78 | 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. | 3.5 | 112 |
| 79 | 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. | 4.3 | 45 |
| 80 | 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. | 3.5 | 15 |
| 81 | Endogenous reduced ascorbate: an indicator of plant water deficit stress in wheat. <i>Indian Journal of Plant Physiology</i> , 2017, 22, 365-368. | 0.8 | 12 |
| 82 | 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. | 0.8 | 3 |
| 83 | miR430: the novel heat-responsive microRNA identified from miRNome analysis in wheat (Triticum) Tj ETQq1 1 0.784314 rgBT ₆ /Overl | 0.8 | 6 |
| 84 | 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. | 3.6 | 28 |
| 85 | Physiological and biochemical alterations due to low temperature stress in papaya genotypes. <i>Indian Journal of Horticulture</i> , 2017, 74, 491. | 0.1 | 5 |
| 86 | Association between ABA-and drought-mediated regulation of root traits and identification of potential SNPs in genes for root development in rice. <i>Indian Journal of Genetics and Plant Breeding</i> , 2017, 78, 48. | 0.5 | 2 |
| 87 | 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. | 3.6 | 38 |
| 88 | Identification of Putative RuBisCo Activase (TaRca1) – The Catalytic Chaperone Regulating Carbon Assimilatory Pathway in Wheat (Triticum aestivum) under the Heat Stress. <i>Frontiers in Plant Science</i> , 2016, 7, 986. | 3.6 | 38 |
| 89 | 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. | 3.6 | 14 |
| 90 | Editorial: Challenges and Strategies in Plant Biology Research. <i>Indian Journal of Plant Physiology</i> , 2016, 21, 375-376. | 0.8 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 91 | Genome-wide analysis and identification of abiotic stress responsive transcription factor family genes and miRNAs in bread wheat (<i>Triticum aestivum</i> L.): Genomic study of bread wheat. , 2016, , . | | 2 |
| 92 | 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. | 0.8 | 4 |
| 93 | 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. | 2.4 | 8 |
| 94 | 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. | 1.7 | 18 |
| 95 | Cloning and characterization of nutrient deficiency and salinity stress responsive <i>TaCBL4</i> gene from bread wheat (<i>Triticum aestivum</i> L.). <i>Indian Journal of Genetics and Plant Breeding</i> , 2016, 76, 152. | 0.5 | 1 |
| 96 | Cloning and characterization of drought stress-induced NAC transcription factors from <i>Brassica juncea</i> and <i>Sinapis alba</i> . <i>Indian Journal of Genetics and Plant Breeding</i> , 2016, 76, 233. | 0.5 | 2 |
| 97 | Identification of novel drought-responsive microRNAs and trans-acting siRNAs from <i>Sorghum bicolor</i> (L.) Moench by high-throughput sequencing analysis. <i>Frontiers in Plant Science</i> , 2015, 6, 506. | 3.6 | 76 |
| 98 | Transcriptional Regulatory Network Analysis of MYB Transcription Factor Family Genes in Rice. <i>Frontiers in Plant Science</i> , 2015, 6, 1157. | 3.6 | 76 |
| 99 | The Omics of Cold Stress Responses in Plants. , 2015, , 143-194. | | 14 |
| 100 | ABA Receptors: Prospects for Enhancing Biotic and Abiotic Stress Tolerance of Crops. , 2015, , 271-298. | | 3 |
| 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. | 2.1 | 45 |
| 102 | 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, 632-647. | 2.0 | 50 |
| 103 | Antioxidant Enzymes. , 2014, , 369-396. | | 4 |
| 104 | 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. | 5.7 | 31 |
| 105 | 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. | 1.8 | 7 |
| 106 | Magnetopriming circumvents the effect of salinity stress on germination in chickpea seeds. <i>Acta Physiologiae Plantarum</i> , 2013, 35, 3401-3411. | 2.1 | 39 |
| 107 | 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, 363-368. | 0.7 | 21 |
| 108 | STA1, an Arabidopsis pre-mRNA processing factor 6 homolog, is a new player involved in miRNA biogenesis. <i>Nucleic Acids Research</i> , 2013, 41, 1984-1997. | 14.5 | 105 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 109 | 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, 1380-1395. | 12.0 | 125 |
| 110 | Mechanisms of Small RNA Generation from Cis-NATs in Response to Environmental and Developmental Cues. <i>Molecular Plant</i> , 2013, 6, 704-715. | 8.3 | 53 |
| 111 | Identification of conserved drought stress responsive gene-network across tissues and developmental stages in rice. <i>Bioinformatics</i> , 2013, 9, 72-78. | 0.5 | 42 |
| 112 | Identification of miRNAs in sorghum by using bioinformatics approach. <i>Plant Signaling and Behavior</i> , 2012, 7, 246-259. | 2.4 | 38 |
| 113 | <i>Arabidopsis</i> 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, 18198-18203. | 7.1 | 127 |
| 114 | Genome-wide classification and expression analysis of MYB transcription factor families in rice and <i>Arabidopsis</i> . <i>BMC Genomics</i> , 2012, 13, 544. | 2.8 | 450 |
| 115 | ROP11 GTPase Negatively Regulates ABA Signaling by Protecting ABI1 Phosphatase Activity from Inhibition by the ABA Receptor RCAR1/PYL9 in <i>Arabidopsis</i> . <i>Journal of Integrative Plant Biology</i> , 2012, 54, 180-188. | 8.5 | 50 |
| 116 | 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. | 1.9 | 6 |
| 117 | Comparative analysis of drought-responsive transcriptome in <i>Indica</i> rice genotypes with contrasting drought tolerance. <i>Plant Biotechnology Journal</i> , 2011, 9, 315-327. | 8.3 | 249 |
| 118 | NADPH oxidase as the source of ROS produced under waterlogging in roots of mung bean. <i>Biologia Plantarum</i> , 2011, 55, . | 1.9 | 16 |
| 119 | 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. | 2.1 | 44 |
| 120 | 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, 3792-3805. | 14.5 | 19 |
| 121 | Isolation and functional characterization of Lycopene β -cyclase (CYC-B) promoter from <i>Solanum habrochaites</i> . <i>BMC Plant Biology</i> , 2010, 10, 61. | 3.6 | 48 |
| 122 | Identification and mechanism of ABA receptor antagonism. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 1102-1108. | 8.2 | 145 |
| 123 | RAS1, a quantitative trait locus for salt tolerance and ABA sensitivity in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 5669-5674. | 7.1 | 100 |
| 124 | Gene Regulation During Cold Stress Acclimation in Plants. <i>Methods in Molecular Biology</i> , 2010, 639, 39-55. | 0.9 | 339 |
| 125 | Epigenetic regulation of stress responses in plants. <i>Current Opinion in Plant Biology</i> , 2009, 12, 133-139. | 7.1 | 984 |
| 126 | Waterlogging induced oxidative stress and antioxidant enzyme activities in pigeon pea. <i>Biologia Plantarum</i> , 2009, 53, 493-504. | 1.9 | 71 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 127 | 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, 261-271. | 3.9 | 48 |
| 128 | RNA-directed DNA methylation and demethylation in plants. <i>Science in China Series C: Life Sciences</i> , 2009, 52, 331-343. | 1.3 | 87 |
| 129 | In vitro reconstitution of an abscisic acid signalling pathway. <i>Nature</i> , 2009, 462, 660-664. | 27.8 | 1,113 |
| 130 | A gateâ€ˆlatchâ€ˆlock mechanism for hormone signalling by abscisic acid receptors. <i>Nature</i> , 2009, 462, 602-608. | 27.8 | 608 |
| 131 | Abiotic stress and ABA-inducible Group 4 LEA from <i>Brassica napus</i> plays a key role in salt and drought tolerance. <i>Journal of Biotechnology</i> , 2009, 139, 137-145. | 3.8 | 167 |
| 132 | Epigenetic Regulation: Chromatin Modeling and Small RNAs. , 2009, , 217-241. | | 0 |
| 133 | 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, 602-616. | 3.5 | 119 |
| 134 | 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, 185-193. | 6.9 | 5 |
| 135 | Enhancing rice productivity in water-stressed environments: perspectives for genetic improvement and management. , 2009, , 233-257. | | 2 |
| 136 | Characterization and phylogenetic analysis of ectoine biosynthesis genes from <i>Bacillus halodurans</i> . <i>Archives of Microbiology</i> , 2008, 190, 481-487. | 2.2 | 4 |
| 137 | Cloning and heterologous expression of ectoine biosynthesis genes from <i>Bacillus halodurans</i> in <i>Escherichia coli</i> . <i>Biotechnology Letters</i> , 2008, 30, 1403-1407. | 2.2 | 14 |
| 138 | Nuclear RNA Export and Its Importance in Abiotic Stress Responses of Plants. <i>Current Topics in Microbiology and Immunology</i> , 2008, 326, 235-255. | 1.1 | 36 |
| 139 | Abscisic Acidâ€ˆmediated Epigenetic Processes in Plant Development and Stress Responses. <i>Journal of Integrative Plant Biology</i> , 2008, 50, 1187-1195. | 8.5 | 278 |
| 140 | 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. | 3.6 | 94 |
| 141 | The role of microRNAs and other endogenous small RNAs in plant stress responses. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2008, 1779, 743-748. | 1.9 | 246 |
| 142 | A Simplified Floral Dip Method for Transformation of <i>Brassica napus</i> and <i>B. carinata</i> . <i>Journal of Plant Biochemistry and Biotechnology</i> , 2008, 17, 197-200. | 1.7 | 25 |
| 143 | Small RNAs as big players in plant abiotic stress responses and nutrient deprivation. <i>Trends in Plant Science</i> , 2007, 12, 301-309. | 8.8 | 872 |
| 144 | Cold stress regulation of gene expression in plants. <i>Trends in Plant Science</i> , 2007, 12, 444-451. | 8.8 | 1,593 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 145 | Small Rnas: Big Role In Abiotic Stress Tolerance Of Plants. , 2007, , 223-260. | | 25 |
| 146 | Salt Stress Signaling and Mechanisms of Plant Salt Tolerance. , 2006, 27, 141-177. | | 208 |
| 147 | Gene regulation during cold acclimation in plants. <i>Physiologia Plantarum</i> , 2006, 126, 52-61. | 5.2 | 281 |
| 148 | Understanding and Improving Salt Tolerance in Plants. <i>Crop Science</i> , 2005, 45, 437-448. | 1.8 | 1,025 |
| 149 | Molecular genetic perspectives on cross-talk and specificity in abiotic stress signalling in plants. <i>Journal of Experimental Botany</i> , 2003, 55, 225-236. | 4.8 | 933 |
| 150 | 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. | 3.5 | 28 |
| 151 | ICE1: a regulator of cold-induced transcriptome and freezing tolerance in Arabidopsis. <i>Genes and Development</i> , 2003, 17, 1043-1054. | 5.9 | 1,363 |
| 152 | Molecular genetic analysis of cold-regulated gene transcription. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2002, 357, 877-886. | 4.0 | 109 |
| 153 | Screening for Gene Regulation Mutants by Bioluminescence Imaging. <i>Science Signaling</i> , 2002, 2002, pl10-pl10. | 3.6 | 43 |
| 154 | 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. | 3.5 | 76 |
| 155 | Title is missing!. <i>Euphytica</i> , 1999, 106, 169-180. | 1.2 | 54 |
| 156 | Plant salt tolerance. <i>Topics in Current Genetics</i> , 0, , 241-270. | 0.7 | 68 |
| 157 | The Molecular Networks of Abiotic Stress Signaling. , 0, , 388-416. | | 2 |
| 158 | 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> , 0, , 1. | 1.5 | 3 |
| 159 | The Molecular Networks of Abiotic Stress Signaling. , 0, , 388-416. | | 0 |
| 160 | Genome Editing Targets for Improving Nutrient Use Efficiency and Nutrient Stress Adaptation. <i>Frontiers in Genetics</i> , 0, 13, . | 2.3 | 14 |