

Xian Zhang

List of Publications by Year in descending order

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41
papers

1,696
citations

361296

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docs citations

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1651
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#	ARTICLE	IF	CITATIONS
1	Exogenous Melatonin Confers Salt Stress Tolerance to Watermelon by Improving Photosynthesis and Redox Homeostasis. <i>Frontiers in Plant Science</i> , 2017, 8, 295.	1.7	227
2	Phenylpropanoid Pathway Engineering: An Emerging Approach towards Plant Defense. <i>Pathogens</i> , 2020, 9, 312.	1.2	209
3	Regulation of Plant Growth, Photosynthesis, Antioxidation and Osmosis by an Arbuscular Mycorrhizal Fungus in Watermelon Seedlings under Well-Watered and Drought Conditions. <i>Frontiers in Plant Science</i> , 2016, 7, 644.	1.7	155
4	Local melatonin application induces cold tolerance in distant organs of <i>Citrullus lanatus</i> L. via long distance transport. <i>Scientific Reports</i> , 2017, 7, 40858.	1.6	96
5	Glutathione-dependent induction of local and systemic defense against oxidative stress by exogenous melatonin in cucumber (<i>Cucumis sativus</i> L.). <i>Journal of Pineal Research</i> , 2016, 60, 206-216.	3.4	84
6	Methyl jasmonate mediates melatonin-induced cold tolerance of grafted watermelon plants. <i>Horticulture Research</i> , 2021, 8, 57.	2.9	80
7	Growth, photosynthesis and adaptive responses of wild and domesticated watermelon genotypes to drought stress and subsequent re-watering. <i>Plant Growth Regulation</i> , 2016, 79, 229-241.	1.8	71
8	Identification and expression analyses of WRKY genes reveal their involvement in growth and abiotic stress response in watermelon (<i>Citrullus lanatus</i>). <i>PLoS ONE</i> , 2018, 13, e0191308.	1.1	61
9	Ethylene responsive factor ERF110 mediates ethylene-regulated transcription of a sex determination-related orthologous gene in two <i>Cucumis</i> species. <i>Journal of Experimental Botany</i> , 2018, 69, 2953-2965.	2.4	56
10	Melatonin antagonizes ABA action to promote seed germination by regulating Ca ²⁺ efflux and H ₂ O ₂ accumulation. <i>Plant Science</i> , 2021, 303, 110761.	1.7	48
11	High-Throughput MicroRNA and mRNA Sequencing Reveals That MicroRNAs May Be Involved in Melatonin-Mediated Cold Tolerance in <i>Citrullus lanatus</i> L. <i>Frontiers in Plant Science</i> , 2016, 7, 1231.	1.7	46
12	Transcriptomic and physiological analyses reveal drought adaptation strategies in drought-tolerant and -susceptible watermelon genotypes. <i>Plant Science</i> , 2019, 278, 32-43.	1.7	46
13	Genome-wide identification and expression analysis of calcium-dependent protein kinase and its related kinase gene families in melon (<i>Cucumis melo</i> L.). <i>PLoS ONE</i> , 2017, 12, e0176352.	1.1	38
14	Alkanes (C ₂₉ and C ₃₁)-Mediated Intracuticular Wax Accumulation Contributes to Melatonin- and ABA-Induced Drought Tolerance in Watermelon. <i>Journal of Plant Growth Regulation</i> , 2020, 39, 1441-1450.	2.8	35
15	The role of watermelon caffeic acid O-methyltransferase (CICOMT1) in melatonin biosynthesis and abiotic stress tolerance. <i>Horticulture Research</i> , 2021, 8, 210.	2.9	33
16	A point mutation resulting in a 13%bp deletion in the coding sequence of Cldf leads to a GA-deficient dwarf phenotype in watermelon. <i>Horticulture Research</i> , 2019, 6, 132.	2.9	28
17	Genetic mapping of the LOBED LEAF 1 (CILL1) gene to a 127.6-kb region in watermelon (<i>Citrullus lanatus</i>) Tj ETQq1.1 0.784314 rgBT /Overlock 10 1	1.1	28
18	Highly efficient, genotype-independent transformation and gene editing in watermelon (<i>Citrullus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 1 2038-2042.	4.1	28

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19	The Effects of Cattle Manure and Garlic Rotation on Soil under Continuous Cropping of Watermelon (<i>Citrullus lanatus</i> L.). <i>PLoS ONE</i> , 2016, 11, e0156515.	1.1	22
20	Soil fumigation with ammonium bicarbonate or metam sodium under high temperature alleviates continuous cropping-induced Fusarium wilt in watermelon. <i>Scientia Horticulturae</i> , 2019, 246, 979-986.	1.7	22
21	Positive Interaction between H ₂ O ₂ and Ca ²⁺ Mediates Melatonin-Induced CBF Pathway and Cold Tolerance in Watermelon (<i>Citrullus lanatus</i> L.). <i>Antioxidants</i> , 2021, 10, 1457.	2.2	22
22	Drought-induced proline is mainly synthesized in leaves and transported to roots in watermelon under water deficit. <i>Horticultural Plant Journal</i> , 2022, 8, 615-626.	2.3	22
23	Systematic Genome-Wide Study and Expression Analysis of SWEET Gene Family: Sugar Transporter Family Contributes to Biotic and Abiotic Stimuli in Watermelon. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8407.	1.8	21
24	CBF-responsive pathway and phytohormones are involved in melatonin-improved photosynthesis and redox homeostasis under aerial cold stress in watermelon. <i>Acta Physiologiae Plantarum</i> , 2020, 42, 1.	1.0	20
25	Transcriptome Profiling of Watermelon Root in Response to Short-Term Osmotic Stress. <i>PLoS ONE</i> , 2016, 11, e0166314.	1.1	20
26	Potassium fertilization arrests malate accumulation and alters soluble sugar metabolism in apple fruit. <i>Biology Open</i> , 2018, 7, .	0.6	19
27	Water requirement characteristics and the optimal irrigation schedule for the growth, yield, and fruit quality of watermelon under plastic film mulching. <i>Scientia Horticulturae</i> , 2018, 241, 74-82.	1.7	18
28	Comparative Analysis of Calcium-Dependent Protein Kinase in Cucurbitaceae and Expression Studies in Watermelon. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2527.	1.8	18
29	Disruption of the bHLH transcription factor Abnormal Tapetum 1 causes male sterility in watermelon. <i>Horticulture Research</i> , 2021, 8, 258.	2.9	17
30	Comparative Analysis, Characterization and Evolutionary Study of Dirigent Gene Family in Cucurbitaceae and Expression of Novel Dirigent Peptide against Powdery Mildew Stress. <i>Genes</i> , 2021, 12, 326.	1.0	16
31	Isolation of prostrate turfgrass mutants via screening of dwarf phenotype and characterization of a perennial ryegrass prostrate mutant. <i>Horticulture Research</i> , 2016, 3, 16003.	2.9	12
32	Candidate gene analysis of watermelon stripe pattern locus CISP ongoing recombination suppression. <i>Theoretical and Applied Genetics</i> , 2021, 134, 3263-3277.	1.8	11
33	The impaired biosynthetic networks in defective tapetum lead to male sterility in watermelon. <i>Journal of Proteomics</i> , 2021, 243, 104241.	1.2	11
34	Characteristics of a novel male-sterile watermelon (<i>Citrullus lanatus</i>) mutant. <i>Scientia Horticulturae</i> , 2012, 140, 107-114.	1.7	10
35	Systematic genome-wide analysis of the ethylene-responsive ACS gene family: Contributions to sex form differentiation and development in melon and watermelon. <i>Gene</i> , 2021, 805, 145910.	1.0	10
36	Analysis of differentially expressed genes and pathways associated with male sterility lines in watermelon via bulked segregant RNA-seq. <i>3 Biotech</i> , 2020, 10, 222.	1.1	9

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37	Abscisic Acid Mediates Grafting-Induced Cold Tolerance of Watermelon via Interaction With Melatonin and Methyl Jasmonate. <i>Frontiers in Plant Science</i> , 2021, 12, 785317.	1.7	8
38	A 2.09 Mb fragment translocation on chromosome 6 causes abnormalities during meiosis and leads to less seed watermelon. <i>Horticulture Research</i> , 2021, 8, 256.	2.9	7
39	The protective roles of S-adenosylmethionine decarboxylase (SAMDC) gene in melon resistance to powdery mildew infection. <i>Horticulture Environment and Biotechnology</i> , 2014, 55, 557-567.	0.7	5
40	Comparative Transcriptome Analysis Identified Key Pathways and Genes Regulating Differentiated Stigma Color in Melon (<i>Cucumis melo</i> L.). <i>International Journal of Molecular Sciences</i> , 2022, 23, 6721.	1.8	3
41	Biparental genetic mapping reveals that CmCLAVATA3 (CmCLV3) is responsible for the variation in carpel number in melon (<i>Cucumis melo</i> L.). <i>Theoretical and Applied Genetics</i> , 2022, 135, 1909-1921.	1.8	2