Xian Zhang

List of Publications by Year
in descending order

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Version: 2024-02-01

41	1,696	361296	302012
papers	citations	20 h-index	39 g-index

43	43	43	1651
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biparental genetic mapping reveals that CmCLAVATA3 (CmCLV3) is responsible for the variation in carpel number in melon (Cucumis melo L.). Theoretical and Applied Genetics, 2022, 135, 1909-1921.	1.8	2
2	Comparative Transcriptome Analysis Identified Key Pathways and Genes Regulating Differentiated Stigma Color in Melon (Cucumis melo L.). International Journal of Molecular Sciences, 2022, 23, 6721.	1.8	3
3	Drought-induced proline is mainly synthesized in leaves and transported to roots in watermelon under water deficit. Horticultural Plant Journal, 2022, 8, 615-626.	2.3	22
4	Melatonin antagonizes ABA action to promote seed germination by regulating Ca2+ efflux and H2O2 accumulation. Plant Science, 2021, 303, 110761.	1.7	48
5	Comparative Analysis, Characterization and Evolutionary Study of Dirigent Gene Family in Cucurbitaceae and Expression of Novel Dirigent Peptide against Powdery Mildew Stress. Genes, 2021, 12, 326.	1.0	16
6	Methyl jasmonate mediates melatonin-induced cold tolerance of grafted watermelon plants. Horticulture Research, 2021, 8, 57.	2.9	80
7	Candidate gene analysis of watermelon stripe pattern locus ClSP ongoing recombination suppression. Theoretical and Applied Genetics, 2021, 134, 3263-3277.	1.8	11
8	The impaired biosynthetic networks in defective tapetum lead to male sterility in watermelon. Journal of Proteomics, 2021, 243, 104241.	1.2	11
9	Systematic Genome-Wide Study and Expression Analysis of SWEET Gene Family: Sugar Transporter Family Contributes to Biotic and Abiotic Stimuli in Watermelon. International Journal of Molecular Sciences, 2021, 22, 8407.	1.8	21
10	Positive Interaction between H2O2 and Ca2+ Mediates Melatonin-Induced CBF Pathway and Cold Tolerance in Watermelon (Citrullus lanatus L.). Antioxidants, 2021, 10, 1457.	2.2	22
11	Systematic genome-wide analysis of the ethylene-responsive ACS gene family: Contributions to sex form differentiation and development in melon and watermelon. Gene, 2021, 805, 145910.	1.0	10
12	The role of watermelon caffeic acid O-methyltransferase (ClCOMT1) in melatonin biosynthesis and abiotic stress tolerance. Horticulture Research, 2021, 8, 210.	2.9	33
13	A 2.09 Mb fragment translocation on chromosome 6 causes abnormalities during meiosis and leads to less seed watermelon. Horticulture Research, 2021, 8, 256.	2.9	7
14	Disruption of the bHLH transcription factor Abnormal Tapetum 1 causes male sterility in watermelon. Horticulture Research, 2021, 8, 258.	2.9	17
15	Abscisic Acid Mediates Grafting-Induced Cold Tolerance of Watermelon via Interaction With Melatonin and Methyl Jasmonate. Frontiers in Plant Science, 2021, 12, 785317.	1.7	8
16	Highly efficient, genotypeâ€independent transformation and gene editing in watermelon (<i>Citrullus) Tj ETQq0 0 0 rgBT /Overlock 10 T 2038-2042.	4.1	28
17	CBF-responsive pathway and phytohormones are involved in melatonin-improved photosynthesis and redox homeostasis under aerial cold stress in watermelon. Acta Physiologiae Plantarum, 2020, 42, 1.	1.0	20
18	Alkanes (C29 and C31)-Mediated Intracuticular Wax Accumulation Contributes to Melatonin- and ABA-Induced Drought Tolerance in Watermelon. Journal of Plant Growth Regulation, 2020, 39, 1441-1450.	2.8	35

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19	Phenylpropanoid Pathway Engineering: An Emerging Approach towards Plant Defense. Pathogens, 2020, 9, 312.	1.2	209
20	Analysis of differentially expressed genes and pathways associated with male sterility lines in watermelon via bulked segregant RNA-seq. 3 Biotech, 2020, 10, 222.	1.1	9
21	Comparative Analysis of Calcium-Dependent Protein Kinase in Cucurbitaceae and Expression Studies in Watermelon. International Journal of Molecular Sciences, 2019, 20, 2527.	1.8	18
22	A point mutation resulting in a 13â€‰bp deletion in the coding sequence of Cldf leads to a GA-deficient dwarf phenotype in watermelon. Horticulture Research, 2019, 6, 132.	2.9	28
23	Soil fumigation with ammonium bicarbonate or metam sodium under high temperature alleviates continuous cropping-induced Fusarium wilt in watermelon. Scientia Horticulturae, 2019, 246, 979-986.	1.7	22
24	Transcriptomic and physiological analyses reveal drought adaptation strategies in drought-tolerant and -susceptible watermelon genotypes. Plant Science, 2019, 278, 32-43.	1.7	46
25	Ethylene responsive factor ERF110 mediates ethylene-regulated transcription of a sex determination-related orthologous gene in two Cucumis species. Journal of Experimental Botany, 2018, 69, 2953-2965.	2.4	56
26	Potassium fertilization arrests malate accumulation and alters soluble sugar metabolism in apple fruit. Biology Open, 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. Scientia Horticulturae, 2018, 241, 74-82.	1.7	18
28	Identification and expression analyses of WRKY genes reveal their involvement in growth and abiotic stress response in watermelon (Citrullus lanatus). PLoS ONE, 2018, 13, e0191308.	1.1	61
29	Local melatonin application induces cold tolerance in distant organs of Citrullus lanatus L. via long distance transport. Scientific Reports, 2017, 7, 40858.	1.6	96
30	Exogenous Melatonin Confers Salt Stress Tolerance to Watermelon by Improving Photosynthesis and Redox Homeostasis. Frontiers in Plant Science, 2017, 8, 295.	1.7	227
31	Genome-wide identification and expression analysis of calciumâ€‘dependent protein kinase and its related kinase gene families in melon (Cucumis melo L.). PLoS ONE, 2017, 12, e0176352.	1.1	38
32	Genetic mapping of the LOBED LEAF 1 (ClLL1) gene to a 127.6-kb region in watermelon (Citrullus lanatus) Tj ETQq0 0 0 rgBT /Overlock	1.1	28
33	The Effects of Cattle Manure and Garlic Rotation on Soil under Continuous Cropping of Watermelon (Citrullus lanatus L.). PLoS ONE, 2016, 11, e0156515.	1.1	22
34	Regulation of Plant Growth, Photosynthesis, Antioxidation and Osmosis by an Arbuscular Mycorrhizal Fungus in Watermelon Seedlings under Well-Watered and Drought Conditions. Frontiers in Plant Science, 2016, 7, 644.	1.7	155
35	High-Throughput MicroRNA and mRNA Sequencing Reveals That MicroRNAs May Be Involved in Melatonin-Mediated Cold Tolerance in Citrullus lanatus L.. Frontiers in Plant Science, 2016, 7, 1231.	1.7	46
36	Glutathioneâ€dependent induction of local and systemic defense against oxidative stress by exogenous melatonin in cucumber (Cucumis sativus L.). Journal of Pineal Research, 2016, 60, 206-216.	3.4	84

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37	Isolation of prostrate turfgrass mutants via screening of dwarf phenotype and characterization of a perennial ryegrass prostrate mutant. Horticulture Research, 2016, 3, 16003.	2.9	12
38	Growth, photosynthesis and adaptive responses of wild and domesticated watermelon genotypes to drought stress and subsequent re-watering. Plant Growth Regulation, 2016, 79, 229-241.	1.8	71
39	Transcriptome Profiling of Watermelon Root in Response to Short-Term Osmotic Stress. PLoS ONE, 2016, 11, e0166314.	1.1	20
40	The protective roles of S-adenosylmethionine decarboxylase (SAMDC) gene in melon resistance to powdery mildew infection. Horticulture Environment and Biotechnology, 2014, 55, 557-567.	0.7	5
41	Characteristics of a novel maleâ€“female sterile watermelon (Citrullus lanatus) mutant. Scientia Horticulturae, 2012, 140, 107-114.	1.7	10