Meiwen He

List of Publications by Year
in descending order

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84 papers	3,321 citations	159585 30 h-index	168389 53 g-index
84 all docs	84 docs citations	84 times ranked	2826 citing authors

#	Article	IF	Citations
1	Melatonin alleviates nickel phytotoxicity by improving photosynthesis, secondary metabolism and oxidative stress tolerance in tomato seedlings. Ecotoxicology and Environmental Safety, 2020, 197, 110593.	6.0	191
2	Melatonin alleviates heat-induced damage of tomato seedlings by balancing redox homeostasis and modulating polyamine and nitric oxide biosynthesis. BMC Plant Biology, 2019, 19, 414.	3.6	181
3	Effects of exogenous spermine on chlorophyll fluorescence, antioxidant system and ultrastructure of chloroplasts in Cucumis sativus L. under salt stress. Plant Physiology and Biochemistry, 2013, 63, 209-216.	5.8	176
4	Exogenous salicylic acid increases the heat tolerance in Tomato (Solanum lycopersicum L) by enhancing photosynthesis efficiency and improving antioxidant defense system through scavenging of reactive oxygen species. Scientia Horticulturae, 2019, 247, 421-429.	3.6	146
5	The role of 24-epibrassinolide in the regulation of photosynthetic characteristics and nitrogen metabolism of tomato seedlings under a combined low temperature and weak light stress. Plant Physiology and Biochemistry, 2016, 107, 344-353.	5.8	138
6	Effects of different light quality on growth, chlorophyll concentration and chlorophyll biosynthesis precursors of non-heading Chinese cabbage (Brassica campestris L.). Acta Physiologiae Plantarum, 2013, 35, 2721-2726.	2.1	130
7	Melatonin-mediated photosynthetic performance of tomato seedlings under high-temperature stress. Plant Physiology and Biochemistry, 2021, 167, 309-320.	5.8	124
8	Melatonin Pretreatment Confers Heat Tolerance and Repression of Heat-Induced Senescence in Tomato Through the Modulation of ABA- and GA-Mediated Pathways. Frontiers in Plant Science, 2021, 12, 650955.	3.6	104
9	The role of putrescine in the regulation of proteins and fatty acids of thylakoid membranes under salt stress. Scientific Reports, 2015, 5, 14390.	3.3	95
10	Effects of exogenous nitric oxide on growth, active oxygen species metabolism, and photosynthetic characteristics in cucumber seedlings under NaCl stress. Frontiers of Agriculture in China, 2007, 1, 308-314.	0.2	94
11	Systematic identification and analysis of heatâ€stressâ€responsive lncRNAs, circRNAs and miRNAs with associated coâ€expression and ceRNA networks in cucumber (Cucumis sativus L.). Physiologia Plantarum, 2020, 168, 736-754.	5.2	90
12	Spermidine-mediated hydrogen peroxide signaling enhances the antioxidant capacity of salt-stressed cucumber roots. Plant Physiology and Biochemistry, 2018, 128, 152-162.	5.8	82
13	Hydrogen peroxide mediates spermidine-induced autophagy to alleviate salt stress in cucumber. Autophagy, 2021, 17, 2876-2890.	9.1	63
14	The effect of exogenous calcium on cucumber fruit quality, photosynthesis, chlorophyll fluorescence, and fast chlorophyll fluorescence during the fruiting period under hypoxic stress. BMC Plant Biology, 2018, 18, 180.	3.6	61
15	Paenibacillus polymyxa NSY50 suppresses Fusarium wilt in cucumbers by regulating the rhizospheric microbial community. Scientific Reports, 2017, 7, 41234.	3.3	60
16	Effects of exogenous putrescine on glycolysis and Krebs cycle metabolism in cucumber leaves subjected to salt stress. Plant Growth Regulation, 2016, 79, 319-330.	3.4	56
17	Proteomics reveal cucumber Spd-responses under normal condition and salt stress. Plant Physiology and Biochemistry, 2013, 67, 7-14.	5.8	54
18	Effects of exogenous spermidine on photosynthetic capacity and expression of Calvin cycle genes in salt-stressed cucumber seedlings. Journal of Plant Research, 2014, 127, 763-773.	2.4	52

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19	Effects of Exogenous Putrescine on Chlorophyll Fluorescence Imaging and Heat Dissipation Capacity in Cucumber (Cucumis sativus L.) Under Salt Stress. Journal of Plant Growth Regulation, 2014, 33, 798-808.	5.1	46
20	The effect of exogenous calcium on mitochondria, respiratory metabolism enzymes and ion transport in cucumber roots under hypoxia. Scientific Reports, 2015, 5, 11391.	3.3	44
21	Proteomic Analysis Reveals the Positive Effect of Exogenous Spermidine in Tomato Seedlings' Response to High-Temperature Stress. Frontiers in Plant Science, 2017, 8, 120.	3.6	44
22	Isolation of a potential biocontrol agent Paenibacillus polymyxa NSY50 from vinegar waste compost and its induction of host defense responses against Fusarium wilt of cucumber. Microbiological Research, 2017, 202, 1-10.	5.3	43
23	Effect of root applied 24-epibrassinolide on carbohydrate status and fermentative enzyme activities in cucumber (Cucumis sativus L.) seedlings under hypoxia. Plant Growth Regulation, 2009, 57, 259-269.	3.4	42
24	Comparative proteomic analysis reveals the positive effect of exogenous spermidine on photosynthesis and salinity tolerance in cucumber seedlings. Plant Cell Reports, 2016, 35, 1769-1782.	5.6	42
25	Proteomic analysis of heat stress resistance of cucumber leaves when grafted onto Momordica rootstock. Horticulture Research, 2018, 5, 53.	6.3	42
26	Proteomic analysis of the effects of exogenous calcium on hypoxic-responsive proteins in cucumber roots. Proteome Science, 2012, 10, 42.	1.7	41
27	Isolation and characterization of S-Adenosylmethionine synthase gene from cucumber and responsive to abiotic stress. Plant Physiology and Biochemistry, 2019, 141, 431-445.	5.8	40
28	Proteomic and Physiological Analyses Reveal Putrescine Responses in Roots of Cucumber Stressed by NaCl. Frontiers in Plant Science, 2016, 7, 1035.	3.6	39
29	Effects of grafting with pumpkin rootstock on carbohydrate metabolism in cucumber seedlings under Ca(NO3)2 stress. Plant Physiology and Biochemistry, 2015, 87, 124-132.	5.8	36
30	Abscisic Acid-Induced H2O2 Accumulation Enhances Antioxidant Capacity in Pumpkin-Grafted Cucumber Leaves under Ca(NO3)2 Stress. Frontiers in Plant Science, 2016, 7, 1489.	3.6	32
31	Exogenous putrescine regulates leaf starch overaccumulation in cucumber under salt stress. Scientia Horticulturae, 2019, 253, 99-110.	3.6	32
32	Regulation of 2,4-epibrassinolide on mineral nutrient uptake and ion distribution in Ca(NO3)2 stressed cucumber plants. Journal of Plant Physiology, 2015, 188, 29-36.	3.5	31
33	Vinegar residue compost as a growth substrate enhances cucumber resistance against the Fusarium wilt pathogen Fusarium oxysporum by regulating physiological and biochemical responses. Environmental Science and Pollution Research, 2016, 23, 18277-18287.	5.3	31
34	Exogenous putrescine alleviates photoinhibition caused by salt stress through cooperation with cyclic electron flow in cucumber. Photosynthesis Research, 2019, 141, 303-314.	2.9	31
35	Bottle gourd rootstock-grafting promotes photosynthesis by regulating the stomata and non-stomata performances in leaves of watermelon seedlings under NaCl stress. Journal of Plant Physiology, 2015, 186-187, 50-58.	3.5	30
36	Overexpression of Transglutaminase from Cucumber in Tobacco Increases Salt Tolerance through Regulation of Photosynthesis. International Journal of Molecular Sciences, 2019, 20, 894.	4.1	30

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37	Proteomics analysis of compatibility and incompatibility in grafted cucumber seedlings. Plant Physiology and Biochemistry, 2016, 105, 21-28.	5.8	28
38	Root Zone Cooling and Exogenous Spermidine Root-Pretreatment Promoting Lactuca sativa L. Growth and Photosynthesis in the High-temperature Season. Frontiers in Plant Science, 2016, 7, 368.	3.6	27
39	Proteomic and physiological analyses reveal the role of exogenous spermidine on cucumber roots in response to Ca(NO3)2 stress. Plant Molecular Biology, 2018, 97, 1-21.	3.9	27
40	Involvement of metabolic, physiological and hormonal responses in the graft-compatible process of cucumber/pumpkin combinations was revealed through the integrative analysis of mRNA and miRNA expression. Plant Physiology and Biochemistry, 2018, 129, 368-380.	5.8	27
41	Proteomic Analysis Reveals the Positive Roles of the Plant-Growth-Promoting Rhizobacterium NSY50 in the Response of Cucumber Roots to Fusarium oxysporum f. sp. cucumerinum Inoculation. Frontiers in Plant Science, 2016, 7, 1859.	3.6	26
42	Bitter Melon (Momordica charantia L.) Rootstock Improves the Heat Tolerance of Cucumber by Regulating Photosynthetic and Antioxidant Defense Pathways. Plants, 2020, 9, 692.	3.5	26
43	24-Epibrassinolide regulates carbohydrate metabolism and increases polyamine content in cucumber exposed to Ca(NO3)2 stress. Acta Physiologiae Plantarum, 2014, 36, 2845-2852.	2.1	25
44	Effect of vinegar residue compost amendments on cucumber growth and Fusarium wilt. Environmental Science and Pollution Research, 2015, 22, 19133-19141.	5.3	25
45	Physiological mechanism of strigolactoneÂenhancing tolerance to low light stress in cucumber seedlings. BMC Plant Biology, 2022, 22, 30.	3.6	25
46	Compost Amendments Based on Vinegar Residue Promote Tomato Growth and Suppress Bacterial Wilt Caused by Ralstonia Solanacearum. Pathogens, 2020, 9, 227.	2.8	24
47	Putrescine regulates stomatal opening of cucumber leaves under salt stress via the H2O2-mediated signaling pathway. Plant Physiology and Biochemistry, 2022, 170, 87-97.	5.8	24
48	Effects of 24-epibrassinolide on ascorbateâ€“glutathione cycle and polyamine levels in cucumber roots under Ca(NO3)2 stress. Acta Physiologiae Plantarum, 2013, 35, 253-262.	2.1	23
49	Effects of Exogenous Putrescine on Leaf Anatomy and Carbohydrate Metabolism in Cucumber (Cucumis sativus L.) Under Salt Stress. Journal of Plant Growth Regulation, 2015, 34, 451-464.	5.1	23
50	Exogenous spermidine delays chlorophyll metabolism in cucumber leaves (Cucumis sativus L.) under high temperature stress. Acta Physiologiae Plantarum, 2016, 38, 1.	2.1	23
51	TGase positively regulates photosynthesis via activation of Calvin cycle enzymes in tomato. Horticulture Research, 2019, 6, 92.	6.3	23
52	Poultry biogas slurry can partially substitute for mineral fertilizers in hydroponic lettuce production. Environmental Science and Pollution Research, 2019, 26, 659-671.	5.3	23
53	Exogenous Putrescine Increases Heat Tolerance in Tomato Seedlings by Regulating Chlorophyll Metabolism and Enhancing Antioxidant Defense Efficiency. Plants, 2022, 11, 1038.	3.5	23
54	Auxin is involved in arbuscular mycorrhizal fungi-promoted tomato growth and NADP-malic enzymes expression in continuous cropping substrates. BMC Plant Biology, 2021, 21, 48.	3.6	22

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55	Influence of exogenous spermidine on carbonâ€“nitrogen metabolism under Ca(NO3)2 stress in cucumber root. Plant Growth Regulation, 2017, 81, 103-115.	3.4	21
56	The effects of grafting on glycolysis and the tricarboxylic acid cycle in Ca(NO3)2-stressed cucumber seedlings with pumpkin as rootstock. Acta Physiologiae Plantarum, 2015, 37, 1.	2.1	19
57	A Comprehensive Evaluation of Salt Tolerance in Tomato (Var. Ailsa Craig): Responses of Physiological and Transcriptional Changes in RBOHâ€™s and ABA Biosynthesis and Signalling Genes. International Journal of Molecular Sciences, 2022, 23, 1603.	4.1	19
58	Exogenous Spermidine Inhibits Ethylene Production in Leaves of Cucumber Seedlings under NaCl Stress. Journal of the American Society for Horticultural Science, 2013, 138, 108-113.	1.0	17
59	NaCl stress induces CsSAMs gene expression in Cucumis sativus by mediating the binding of CsGT-3b to the GT-1 element within the CsSAMs promoter. Planta, 2017, 245, 889-908.	3.2	16
60	RNA-Seq analysis reveals the growth and photosynthetic responses of rapeseed (Brassica napus L.) under red and blue LEDs with supplemental yellow, green, or white light. Horticulture Research, 2020, 7, 206.	6.3	16
61	Gibberellin mediates spermidine-induced salt tolerance and the expression of GT-3b in cucumber. Plant Physiology and Biochemistry, 2020, 152, 147-156.	5.8	16
62	Redox and thylakoid membrane proteomic analysis reveals the Momordica (Momordica charantia L.) rootstock-induced photoprotection of cucumber leaves under short-term heat stress. Plant Physiology and Biochemistry, 2019, 136, 98-108.	5.8	15
63	Identification of microRNAs associated with the exogenous spermidine-mediated improvement of high-temperature tolerance in cucumber seedlings (Cucumis sativus L.). BMC Genomics, 2018, 19, 285.	2.8	14
64	Functional growth, photosynthesis and nutritional property analyses of lettuce grown under different temperature and light intensity. Journal of Horticultural Science and Biotechnology, 2021, 96, 53-61.	1.9	14
65	Ectopic expression of CsTGase enhances salt tolerance by regulating polyamine biosynthesis, antioxidant activities and Na+/K+ homeostasis in transgenic tobacco. Plant Science, 2020, 296, 110492.	3.6	13
66	CsCDPK6, a CsSAMS1-Interacting Protein, Affects Polyamine/Ethylene Biosynthesis in Cucumber and Enhances Salt Tolerance by Overexpression in Tobacco. International Journal of Molecular Sciences, 2021, 22, 11133.	4.1	13
67	Mitigative effects of spermidine on photosynthesis and carbonâ€“nitrogen balance of cucumber seedlings under Ca(NO3)2 stress. Journal of Plant Research, 2016, 129, 79-91.	2.4	12
68	Root proteomics reveals cucumber 24-epibrassinolide responses under Ca(NO3)2 stress. Plant Cell Reports, 2016, 35, 1081-1101.	5.6	11
69	Characterization of SlBAG Genes from Solanum lycopersicum and Its Function in Response to Dark-Induced Leaf Senescence. Plants, 2021, 10, 947.	3.5	9
70	NO accumulation alleviates H₂O₂â€dependent oxidative damage induced by Ca(NO₃)₂ stress in the leaves of pumpkinâ€grafted cucumber seedlings. Physiologia Plantarum, 2017, 160, 33-45.	5.2	8
71	24-Epibrassinolide-induced alterations in the root cell walls of Cucumis sativus L. under Ca(NO3)2 stress. Protoplasma, 2018, 255, 841-850.	2.1	8
72	Characterization of the CsPNG1 gene from cucumber and its function in response to salinity stress. Plant Physiology and Biochemistry, 2020, 150, 140-150.	5.8	8

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73	The key cyclic electron flow protein PGR5 associates with cytochrome b6f, and its function is partially influenced by the LHCII state transition. Horticulture Research, 2021, 8, 55.	6.3	8
74	Effects of Bacillus cereus on Photosynthesis and Antioxidant Metabolism of Cucumber Seedlings under Salt Stress. Horticulturae, 2022, 8, 463.	2.8	8
75	Enhancement of salt-stressed cucumber tolerance by application of glucose for regulating antioxidant capacity and nitrogen metabolism. Canadian Journal of Plant Science, 2020, 100, 253-263.	0.9	7
76	Physiological mechanism of transglutaminase-mediated improvement in salt tolerance of cucumber seedlings. Plant Physiology and Biochemistry, 2020, 156, 333-344.	5.8	7
77	Overexpression of 7-hydroxymethyl Chlorophyll a Reductase from Cucumber in Tobacco Accelerates Dark-Induced Chlorophyll Degradation. Plants, 2021, 10, 1820.	3.5	5
78	Effects of exogenous spermidine on the photosynthesis of Cucumis sativus L. seedlings under rhizosphere hypoxia stress. Frontiers of Agriculture in China, 2008, 2, 55-60.	0.2	4
79	Proteome Analysis of Roots in Cucumber Seedlings Under Iso-Osmotic NaCl and Ca(NO3)2 Stresses. Plant Molecular Biology Reporter, 2016, 34, 303-317.	1.8	4
80	CsbZIP2-miR9748-CsNPF4.4 Module Mediates High Temperature Tolerance of Cucumber Through Jasmonic Acid Pathway. Frontiers in Plant Science, 2022, 13, 883876.	3.6	4
81	Comparative transcriptome analysis reveals gene network regulation of TGase-induced thermotolerance in tomato. Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 2021, 49, 12208.	1.1	3
82	Effects of polyamines on K+, Na+ and Clâˆ’ content and distribution in different organs of cucumber (Cucumis sativus L.) seedlings under NaCl stress. Frontiers of Agriculture in China, 2007, 1, 430-437.	0.2	2
83	Improvement effects of conditioners on properties of acidified-salinized soils and lettuce growth. Journal of Plant Nutrition, 2022, 45, 937-950.	1.9	2
84	Cytokinin plays a critical role in bitter gourd rootstock-induced thermotolerance of cucumber. Vegetable Research, 2022, 2, 1-9.	0.7	1