

Effects of calcium on antioxidant activities and water re tolerance in two coolâ€season grasses

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Alleviation of Negative Effects of Water Stress in Two Contrasting Wheat Genotypes by Calcium and Abscisic Acid. <i>Biologia Plantarum</i> , 2002, 45, 65-70.	1.9	36
2	Chilling Induced Oxidative Stress in Germinating Wheat Grains as Affected by Water Stress and Calcium. <i>Biologia Plantarum</i> , 2002, 45, 601-604.	1.9	34
3	High-Temperature Preconditioning and Thermal Shock Imposition Affects Water Relations, Gas Exchange and Root Hydraulic Conductivity in Tomato. <i>Biologia Plantarum</i> , 2003, 46, 203-208.	1.9	166
4	The Changes of Membrane Permeability of Mosses under High Temperature Stress. <i>Bryologist</i> , 2003, 106, 53-60.	0.6	22
5	The effect of calcium on the antioxidant enzymes from salt-treated loquat and anger plants. <i>Functional Plant Biology</i> , 2003, 30, 1127.	2.1	78
6	Effects of Foliar Application of Nutrients on Heat Tolerance of Creeping Bentgrass. <i>Journal of Plant Nutrition</i> , 2003, 26, 81-96.	1.9	37
7	Antioxidant Metabolism Associated with Summer Leaf Senescence and Turf Quality Decline for Creeping Bentgrass. <i>Crop Science</i> , 2004, 44, 553-560.	1.8	33
8	Calcium Stimulates the Adaptation of Cultured Liquorice Cells to PEG-Induced Water Stress. <i>Russian Journal of Plant Physiology</i> , 2004, 51, 518-524.	1.1	5
9	Influence of Ca ²⁺ , K ⁺ and NO ₃ ⁻ fertilisation on nutritional quality of pepper. <i>Journal of the Science of Food and Agriculture</i> , 2004, 84, 569-574.	3.5	61
10	Solute flows from <i>Hordeum vulgare</i> to the hemiparasite <i>Rhinanthus minor</i> and the influence of infection on host and parasite nutrient relations. <i>Functional Plant Biology</i> , 2004, 31, 633.	2.1	33
11	Does calcium determine water uptake under saline conditions in pepper plants, or is it water flux which determines calcium uptake?. <i>Plant Science</i> , 2004, 166, 443-450.	3.6	57
12	Thermotolerance and antioxidant systems in <i>Agrostis stolonifera</i> : Involvement of salicylic acid, abscisic acid, calcium, hydrogen peroxide, and ethylene. <i>Journal of Plant Physiology</i> , 2004, 161, 405-413.	3.5	410
13	Antioxidant Metabolism in Cotton Seedlings Exposed to Temperature Stress in the Field. <i>Crop Science</i> , 2005, 45, 2337-2345.	1.8	36
14	Differential induction of enzymes and antioxidants of the antioxidative defense system in <i>Anabaena doliolum</i> exposed to heat stress. <i>Journal of Thermal Biology</i> , 2005, 30, 524-531.	2.5	18
15	Chilling stressed chickpea seedlings: effect of cold acclimation, calcium and abscisic acid on cryoprotective solutes and oxidative damage. <i>Environmental and Experimental Botany</i> , 2005, 54, 275-285.	4.2	93
17	Induction of Heat Stress Tolerance in Barley Seedlings by Pre-Sowing Seed Treatment with Glycinebetaine. <i>Plant Growth Regulation</i> , 2005, 46, 133-141.	3.4	144
18	Induction of heat tolerance in wheat coleoptiles by calcium ions and its relation to oxidative stress. <i>Russian Journal of Plant Physiology</i> , 2005, 52, 199-204.	1.1	37
20	Physiological and antioxidant responses of the perennial halophyte <i>Crithmum maritimum</i> to salinity. <i>Plant Science</i> , 2005, 168, 889-899.	3.6	277

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21	Role of ABA, salicylic acid, calcium and hydrogen peroxide on antioxidant enzymes induction in wheat seedlings. <i>Plant Science</i> , 2005, 169, 559-570.	3.6	193
22	Protective role of antioxidant enzymes under high temperature stress. <i>Plant Science</i> , 2006, 171, 382-388.	3.6	425
23	Effects of heat acclimation pretreatment on changes of membrane lipid peroxidation, antioxidant metabolites, and ultrastructure of chloroplasts in two cool-season turfgrass species under heat stress. <i>Environmental and Experimental Botany</i> , 2006, 56, 274-285.	4.2	414
24	Growth and development of the facultative root hemiparasite <i>Rhinanthus minor</i> after removal of its host. <i>Functional Plant Biology</i> , 2007, 34, 237.	2.1	12
25	Heat tolerance in plants: An overview. <i>Environmental and Experimental Botany</i> , 2007, 61, 199-223.	4.2	2,804
26	Effects of short-term heat stress on oxidative damage and responses of antioxidant system in <i>Lilium longiflorum</i> . <i>Plant Growth Regulation</i> , 2007, 54, 45-54.	3.4	140
27	Calcium-dependent signaling pathway in the heat-induced oxidative injury in <i>Amaranthus lividus</i> . <i>Biologia Plantarum</i> , 2008, 52, 137-140.	1.9	49
28	Changes in extreme high-temperature tolerance and activities of antioxidant enzymes of sacred lotus seeds. <i>Science in China Series C: Life Sciences</i> , 2008, 51, 842-853.	1.3	13
29	Internal Heat Necrosis of Potato—A Review. <i>American Journal of Potato Research</i> , 2008, 85, 69-76.	0.9	21
30	Changes in antioxidant activities and phenol content in tomato plants subjected to partial root drying and regulated deficit irrigation. <i>Plant Biosystems</i> , 2008, 142, 550-562.	1.6	34
31	Responses to Changes in Ca ²⁺ Supply in Two Mediterranean Evergreens, <i>Phillyrea latifolia</i> and <i>Pistacia lentiscus</i> , During Salinity Stress and Subsequent Relief. <i>Annals of Botany</i> , 2008, 102, 609-622.	2.9	24
32	Tobacco plants can use nitrogen taken up before mechanical wounding to synthesize nicotine afterwards. <i>Plant Signaling and Behavior</i> , 2008, 3, 87-90.	2.4	9
33	Calcium addition at the Hubbard Brook Experimental Forest increases sugar storage, antioxidant activity and cold tolerance in native red spruce (<i>Picea rubens</i>). <i>Tree Physiology</i> , 2008, 28, 855-862.	3.1	52
34	Calcium pretreatment increases thermotolerance of <i>Laminaria japonica</i> sporophytes. <i>Progress in Natural Science: Materials International</i> , 2009, 19, 435-442.	4.4	26
35	Calcium is involved in the abscisic acid-induced ascorbate peroxidase, superoxide dismutase and chilling resistance in <i>Stylosanthes guianensis</i> . <i>Biologia Plantarum</i> , 2009, 53, 63-68.	1.9	37
36	Calcium protects <i>Trifolium repens</i> L. seedlings against cadmium stress. <i>Plant Cell Reports</i> , 2009, 28, 1341-1349.	5.6	82
37	Heat stress-induced limitations to reproductive success in <i>Gossypium hirsutum</i> . <i>Physiologia Plantarum</i> , 2009, 137, 125-138.	5.2	143
38	Different Responses of Plant Growth and Antioxidant System to the Combination of Cadmium and Heat Stress in Transgenic and Non-transgenic Rice. <i>Journal of Integrative Plant Biology</i> , 2009, 51, 942-950.	8.5	53

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39	The role of calcium in regulating photosynthesis and related physiological indexes of cucumber seedlings under low light intensity and suboptimal temperature stress. <i>Scientia Horticulturae</i> , 2009, 123, 34-38.	3.6	42
40	Identification of heat stress-responsive genes in heat-adapted thermal <i>Agrostis scabra</i> by suppression subtractive hybridization. <i>Journal of Plant Physiology</i> , 2009, 166, 588-601.	3.5	40
41	High temperature stress tolerance in wheat genotypes: Role of antioxidant defence enzymes. <i>Acta Agronomica Hungarica: an International Multidisciplinary Journal in Agricultural Science</i> , 2009, 57, 1-14.	0.2	126
42	Interactions Between <i>Rhinanthus minor</i> and Its Hosts: A Review of Water, Mineral Nutrient and Hormone Flows and Exchanges in the Hemiparasitic Association. <i>Folia Geobotanica</i> , 2010, 45, 369-385.	0.9	30
43	Effects of NaCl stress on two blue fescue varieties (<i>Festuca glauca</i>). <i>Frontiers of Agriculture in China</i> , 2010, 4, 96-100.	0.2	4
44	The effect of 5-azacytidine on wheat seedlings responses to NaCl stress. <i>Biologia Plantarum</i> , 2010, 54, 753-756.	1.9	31
45	Axillary bud outgrowth in herbaceous shoots: how do strigolactones fit into the picture?. <i>Plant Molecular Biology</i> , 2010, 73, 27-36.	3.9	56
46	Potassium nutrition of crops under varied regimes of nitrogen supply. <i>Plant and Soil</i> , 2010, 335, 21-34.	3.7	116
47	Exogenous Ca ²⁺ alleviates nitrogen and water deficit, and improves growth of wheat (<i>Triticum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 42	3.4	5
48	Genotypic differences in thermotolerance are dependent upon prestress capacity for antioxidant protection of the photosynthetic apparatus in <i>Gossypium hirsutum</i> . <i>Physiologia Plantarum</i> , 2010, 138, 268-277.	5.2	68
49	EXOGENOUS CALCIUM ALTERS ACTIVITIES OF ANTIOXIDANT ENZYMES INTRIFOLIUM REPENSL. LEAVES UNDER PEG-INDUCED WATER DEFICIT. <i>Journal of Plant Nutrition</i> , 2010, 33, 1874-1885.	1.9	6
50	Improvement in the Adaptation of <i>Lygeum Spartum</i> L. to Salinity In the Presence of Calcium. <i>Communications in Soil Science and Plant Analysis</i> , 2010, 41, 2301-2317.	1.4	12
51	Tetraploidization of diploid <i>Dioscorea</i> results in activation of the antioxidant defense system and increased heat tolerance. <i>Journal of Plant Physiology</i> , 2010, 167, 88-94.	3.5	123
52	Toxic effect of NaCl on ion metabolism, antioxidative enzymes and gene expression of perennial ryegrass. <i>Ecotoxicology and Environmental Safety</i> , 2011, 74, 2050-2056.	6.0	73
53	Pre-anthesis high-temperature acclimation alleviates damage to the flag leaf caused by post-anthesis heat stress in wheat. <i>Journal of Plant Physiology</i> , 2011, 168, 585-593.	3.5	166
54	High temperature limits in vivo pollen tube growth rates by altering diurnal carbohydrate balance in field-grown <i>Gossypium hirsutum</i> pistils. <i>Journal of Plant Physiology</i> , 2011, 168, 1168-1175.	3.5	72
55	Photosynthesis is improved by exogenous calcium in heat-stressed tobacco plants. <i>Journal of Plant Physiology</i> , 2011, 168, 2063-2071.	3.5	191
56	Effect of polyamines on thermotolerance and membrane stability of soybean seedling. <i>African Journal of Biotechnology</i> , 2011, 10, 9673-9676.	0.6	24

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57	Mechanisms of Reproductive Thermotolerance in <i>Gossypium hirsutum</i> : The Effect of Genotype and Exogenous Calcium Application. <i>Journal of Agronomy and Crop Science</i> , 2011, 197, 228-236.	3.5	19
58	Interactive effect of calcium and gibberellin on nickel tolerance in relation to antioxidant systems in <i>Triticum aestivum</i> L. <i>Protoplasma</i> , 2011, 248, 503-511.	2.1	133
59	Thermotolerance and antioxidant response induced by heat acclimation in <i>Freesia</i> seedlings. <i>Acta Physiologiae Plantarum</i> , 2011, 33, 1001-1009.	2.1	19
60	Calcium regulates <i>Gladiolus</i> flower senescence by influencing antioxidative enzymes activity. <i>Acta Physiologiae Plantarum</i> , 2011, 33, 1897-1904.	2.1	28
61	High temperature-induced oxidative stress in <i>Lens culinaris</i> , role of antioxidants and amelioration of stress by chemical pre-treatments. <i>Journal of Plant Interactions</i> , 2011, 6, 43-52.	2.1	94
62	Alleviation of temperature stress by nutrient management in crop plants: a review. <i>Journal of Soil Science and Plant Nutrition</i> , 2012, 12, 221-244.	3.4	325
63	Comprehensive recognition of messenger RNA polyadenylation patterns in plants. <i>African Journal of Biotechnology</i> , 2012, 11, .	0.6	0
64	Exogenous calcium alleviates the impact of cadmium-induced oxidative stress in <i>Lens culinaris</i> medic. Seedlings through modulation of antioxidant enzyme activities. <i>Journal of Crop Science and Biotechnology</i> , 2012, 15, 325-334.	1.5	75
65	Homobrassinolide-Induced Thermotolerance in Brassica Species. <i>Journal of Crop Improvement</i> , 2012, 26, 455-467.	1.7	0
66	Heat Stress in Rice – Physiological Mechanisms and Adaptation Strategies. , 2012, , 193-224.		7
67	Comparative effects of neutral salt and alkaline salt stress on seed germination, early seedling growth and physiological response of a halophyte species <i>Chenopodium glaucum</i> . <i>African Journal of Biotechnology</i> , 2012, 11, .	0.6	9
68	Salicylic acid and calcium-induced protection of wheat against salinity. <i>Protoplasma</i> , 2012, 249, 769-778.	2.1	66
69	Acclimation response of signalling molecules for high temperature stress on photosynthetic characteristics in rice genotypes. <i>Indian Journal of Plant Physiology</i> , 2013, 18, 142-150.	0.8	28
70	Antioxidant enzymatic activities and gene expression associated with heat tolerance in a cool-season perennial grass species. <i>Environmental and Experimental Botany</i> , 2013, 87, 159-166.	4.2	38
71	Interactive effects of cadmium and carbon nanotubes on the growth and metal accumulation in a halophyte <i>Spartina alterniflora</i> (Poaceae). <i>Plant Growth Regulation</i> , 2013, 71, 171-179.	3.4	53
72	Effect of heat shock on ultrastructure and calcium distribution in <i>Lavandula pinnata</i> L. glandular trichomes. <i>Protoplasma</i> , 2013, 250, 185-196.	2.1	4
73	Effect of NaCl on growth and Cd accumulation of halophyte <i>Spartina alterniflora</i> under CdCl ₂ stress. <i>South African Journal of Botany</i> , 2013, 85, 63-69.	2.5	38
74	Role of exogenous salicylic acid in alleviating cadmium-induced toxicity in Kentucky bluegrass. <i>Biochemical Systematics and Ecology</i> , 2013, 50, 269-276.	1.3	51

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75	Induced Response of Sugarcane Variety Co 86032 for Thermotolerance. Sugar Tech, 2013, 15, 17-26.	1.8	9
76	Adverse Effects of Abiotic Stresses on Medicinal and Aromatic Plants and Their Alleviation by Calcium. , 2013, , 101-146.		8
77	Effects of soil calcium and aluminum on the physiology of balsam fir and red spruce saplings in northern New England. Trees - Structure and Function, 2013, 27, 1657-1667.	1.9	5
78	Effects of fuzzless cottonseed phenotype on cottonseed nutrient composition in near isogenic cotton (<i>Gossypium hirsutum</i> L.) mutant lines under well-watered and water stress conditions ¹ . Frontiers in Plant Science, 2013, 4, 516.	3.6	20
79	Calcium and aluminum impacts on sugar maple physiology in a northern hardwood forest. Tree Physiology, 2013, 33, 1242-1251.	3.1	39
80	Exogenous Calcium Alleviates Photoinhibition of PSII by Improving the Xanthophyll Cycle in Peanut (<i>Arachis Hypogaea</i>) Leaves during Heat Stress under High Irradiance. PLoS ONE, 2013, 8, e71214.	2.5	37
81	Physiological Responses of Creeping Bentgrass Cultivars to Carbonate, Chloride, and Sulfate Salinity. Crop Science, 2013, 53, 1734-1742.	1.8	7
82	Reference Genes Selection and Normalization of Oxidative Stress Responsive Genes upon Different Temperature Stress Conditions in <i>Hypericum perforatum</i> L. PLoS ONE, 2014, 9, e115206.	2.5	44
83	High correlation between thermotolerance and photosystem II activity in tall fescue. Photosynthesis Research, 2014, 122, 305-314.	2.9	35
84	Oxidative stress and antioxidant defense mechanism in mung bean seedlings after lead and cadmium treatments. Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry, 2014, 38, 55-61.	2.1	43
85	An assessment of <i>Agropyron cristatum</i> tolerance to cadmium contaminated soil. Biologia Plantarum, 2014, 58, 174-178.	1.9	26
86	Evidence for a strong correlation between season-dependent nitrate and potassium uptake in two deciduous trees. Trees - Structure and Function, 2014, 28, 769-776.	1.9	2
87	Heat Signaling and Stress Responses in Photosynthesis. , 2014, , 241-256.		12
88	Drought resistance and DNA methylation of interspecific hybrids between <i>Fraxinus mandshurica</i> and <i>Fraxinus americana</i> . Trees - Structure and Function, 2014, 28, 1679-1692.	1.9	17
89	Osmolyte accumulation, antioxidant enzyme activities and gene expression patterns in leaves of orchardgrass during drought stress and recovery. Grassland Science, 2014, 60, 131-141.	1.1	3
90	Protective effects of complementary Ca ²⁺ on low-light-induced oxidative damage in tall fescue. Russian Journal of Plant Physiology, 2014, 61, 818-827.	1.1	6
91	Simultaneous application of salicylic acid and calcium improves salt tolerance in two contrasting tomato (<i>Solanum lycopersicum</i>) cultivars. South African Journal of Botany, 2014, 95, 32-39.	2.5	69
92	Calcium-selective optodes for the management of plant nutrient solutions. Sensors and Actuators B: Chemical, 2014, 190, 61-69.	7.8	13

#	ARTICLE	IF	CITATIONS
93	Evaluation of Differences Among <i>Vigna aconitifolia</i> Varieties for Acquired Thermotolerance. <i>Agricultural Research</i> , 2014, 3, 104-112.	1.7	9
94	The Persimmon 9-lipoxygenase Gene DkLOX3 Plays Positive Roles in Both Promoting Senescence and Enhancing Tolerance to Abiotic Stress. <i>Frontiers in Plant Science</i> , 2015, 6, 1073.	3.6	57
95	Heat-Stress Physiology and Management. , 0, , 249-278.		2
96	Postharvest Exogenous Application of Abscisic Acid Reduces Internal Browning in Pineapple. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 5313-5320.	5.2	72
97	Effects of Calcium on Photosynthesis, Antioxidant System, and Chloroplast Ultrastructure in Tomato Leaves Under Low Night Temperature Stress. <i>Journal of Plant Growth Regulation</i> , 2015, 34, 263-273.	5.1	45
98	Effects of high salinity on physiological and anatomical indices in the early stages of <i>Populus euphratica</i> growth. <i>Russian Journal of Plant Physiology</i> , 2015, 62, 229-236.	1.1	49
99	Calcium contributes to photoprotection and repair of photosystem II in peanut leaves during heat and high irradiance. <i>Journal of Integrative Plant Biology</i> , 2015, 57, 486-495.	8.5	45
100	Enhanced autotrophic astaxanthin production from <i>Haematococcus pluvialis</i> under high temperature via heat stress-driven Haber-Weiss reaction. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 5203-5215.	3.6	93
101	Cottonseed protein, oil, and mineral status in near-isogenic <i>Gossypium hirsutum</i> cotton lines expressing fuzzy/linted and fuzzless/linted seed phenotypes under field conditions. <i>Frontiers in Plant Science</i> , 2015, 6, 137.	3.6	32
102	Potassium deficiency inhibits lateral root development in tobacco seedlings by changing auxin distribution. <i>Plant and Soil</i> , 2015, 396, 163-173.	3.7	32
103	Effects of heat shock and salinity on barley growth and stress-related gene transcription. <i>Biologia Plantarum</i> , 2015, 59, 537-546.	1.9	29
104	Calcium : magnesium ratio affects environmental stress sensitivity in the serpentine-endemic <i>Alyssum inflatum</i> (Brassicaceae). <i>Australian Journal of Botany</i> , 2015, 63, 39.	0.6	14
105	Wheat cultivars differing in heat tolerance show a differential response to oxidative stress during monocarpic senescence under high temperature stress. <i>Protoplasma</i> , 2015, 252, 1241-1251.	2.1	20
106	Subcellular localization of calcium in the incompatible and compatible interactions of wheat and <i>Puccinia striiformis</i> f. sp. <i>tritici</i> . <i>Protoplasma</i> , 2015, 252, 103-116.	2.1	8
107	Effects of high temperature stress on enzymatic and nonenzymatic antioxidants and proteins in strawberry plants. <i>Türk Tarım Ve Ormancılık Dergisi/Turkish Journal of Agriculture and Forestry</i> , 2016, 40, 908-917.	2.1	20
108	Exogenous Application of Citric Acid Ameliorates the Adverse Effect of Heat Stress in Tall Fescue (<i>Lolium arundinaceum</i>). <i>Frontiers in Plant Science</i> , 2016, 7, 179.	3.6	66
109	Crosstalk of nitric oxide with calcium induced tolerance of tall fescue leaves to high irradiance. <i>Biologia Plantarum</i> , 2016, 60, 376-384.	1.9	9
110	Chapter 2 Soil Salinity Development, Classification, Assessment, and Management in Irrigated Agriculture. , 2016, , 53-70.		3

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111	Physiological traits for improving high temperature stress tolerance in rice. <i>Indian Journal of Plant Physiology</i> , 2016, 21, 420-427.	0.8	2
112	H ₂ O ₂ and Ca ²⁺ -based signaling and associated ion accumulation, antioxidant systems and secondary metabolism orchestrate the response to NaCl stress in perennial ryegrass. <i>Scientific Reports</i> , 2016, 6, 36396.	3.3	29
113	Role of calcium in the mitigation of heat stress in the cyanobacterium <i>Anabaena</i> PCC 7120. <i>Journal of Plant Physiology</i> , 2016, 199, 67-75.	3.5	18
114	Foliar application of plant nutrients and kinetin modifies growth and essential oil profile in <i>Rosa damascena</i> under acidic conditions. <i>Acta Physiologiae Plantarum</i> , 2016, 38, 1.	2.1	11
115	Rhizosphere bacteria containing 1-aminocyclopropane-1- carboxylate deaminase increase growth and photosynthesis of pea plants under salt stress by limiting Na ⁺ accumulation. <i>Functional Plant Biology</i> , 2016, 43, 161.	2.1	155
116	Food crops face rising temperatures: An overview of responses, adaptive mechanisms, and approaches to improve heat tolerance. <i>Cogent Food and Agriculture</i> , 2016, 2, .	1.4	106
117	Roles and Transport of Sodium and Potassium in Plants. <i>Metal Ions in Life Sciences</i> , 2016, 16, 291-324.	2.8	86
118	Evaluating the Importance of Proline in Cadmium Tolerance and Its Interaction with Phytohormones. , 2016, , 129-153.		4
119	Reactive oxygen species regulate programmed cell death progress of endosperm in winter wheat (<i>Triticum aestivum</i> L.) under waterlogging. <i>Protoplasma</i> , 2016, 253, 311-327.	2.1	45
120	Calcium alleviates cadmium-induced inhibition on root growth by maintaining auxin homeostasis in <i>Arabidopsis</i> seedlings. <i>Protoplasma</i> , 2016, 253, 185-200.	2.1	73
121	Management strategies for sustainable yield of potato crop under high temperature. <i>Archives of Agronomy and Soil Science</i> , 2017, 63, 276-287.	2.6	10
122	Lipid- and calcium-signaling regulation of HsfA2c -mediated heat tolerance in tall fescue. <i>Environmental and Experimental Botany</i> , 2017, 136, 59-67.	4.2	25
123	Temperature sensitivity of food legumes: a physiological insight. <i>Acta Physiologiae Plantarum</i> , 2017, 39, 1.	2.1	33
124	Alleviating effects of calcium on cobalt toxicity in two barley genotypes differing in cobalt tolerance. <i>Ecotoxicology and Environmental Safety</i> , 2017, 139, 488-495.	6.0	37
125	Effects of the foliar application of calcium on photosynthesis, reactive oxygen species production, and changes in water relations in tomato seedlings under heat stress. <i>Horticulture Environment and Biotechnology</i> , 2017, 58, 119-126.	2.1	13
126	Paclobutrazol improves salt tolerance in quinoa: Beyond the stomatal and biochemical interventions. <i>Journal of Agronomy and Crop Science</i> , 2017, 203, 315-322.	3.5	31
127	Antioxidative systems, metal ion homeostasis and cadmium distribution in <i>Iris lactea</i> exposed to cadmium stress. <i>Ecotoxicology and Environmental Safety</i> , 2017, 139, 50-55.	6.0	52
128	Effect of indigenous arbuscular mycorrhizal fungi combined with manure on the change in concentration some mineral elements in cotton (<i>Gossypium hirsutum</i> L.). <i>Journal of Plant Nutrition</i> , 2017, 40, 2862-2871.	1.9	3

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129	Exogenous application of calcium silicate improves salt tolerance in two contrasting tomato (<i>Solanum lycopersicum</i>) cultivars. Journal of Plant Nutrition, 2017, 40, 673-684.	1.9	12
130	Microbial Biofertilizer Decreases Nicotine Content by Improving Soil Nitrogen Supply. Applied Biochemistry and Biotechnology, 2017, 181, 1-14.	2.9	30
131	Crop Production under Drought and Heat Stress: Plant Responses and Management Options. Frontiers in Plant Science, 2017, 8, 1147.	3.6	1,518
132	Food Legumes and Rising Temperatures: Effects, Adaptive Functional Mechanisms Specific to Reproductive Growth Stage and Strategies to Improve Heat Tolerance. Frontiers in Plant Science, 2017, 8, 1658.	3.6	146
133	Differential Proteomic Analysis Reveals the Effect of Calcium on Malus baccata Borkh. Leaves under Temperature Stress. International Journal of Molecular Sciences, 2017, 18, 1755.	4.1	8
134	Nutritional Efficiency of Eucalyptus Clones Under Water Stress. Revista Brasileira De Ciencia Do Solo, 2017, 41, .	1.3	10
135	Consequences of high temperature under changing climate optima for rice pollen characteristics-concepts and perspectives. Archives of Agronomy and Soil Science, 2018, 64, 1473-1488.	2.6	126
136	Salicylic acid and calcium pretreatments alleviate the toxic effect of salinity in the Oueslati olive variety. Scientia Horticulturae, 2018, 233, 349-358.	3.6	38
137	Upregulation of antioxidant and glyoxalase systems mitigates NaCl stress in <i>Brassica juncea</i> by supplementation of zinc and calcium. Journal of Plant Interactions, 2018, 13, 151-162.	2.1	41
138	Ferulic acid pretreatment alleviates heat stress in blueberry seedlings by inducing antioxidant enzymes, proline, and soluble sugars. Biologia Plantarum, 2018, 62, 534-542.	1.9	17
139	Inducing Ni sensitivity in the Ni hyperaccumulator plant <i>Alyssum inflatum</i> NyÅrÅdy (Brassicaceae) by transforming with <i>CAX1</i>, a vacuolar membrane calcium transporter. Ecological Research, 2018, 33, 737-747.	1.5	9
140	Calcium chloride and calcium gluconate peduncle infiltrations alleviate the internal browning of Queen pineapple in refrigerated storage. Horticulture Environment and Biotechnology, 2018, 59, 205-213.	2.1	20
141	Ecophysiological Responses of Calcicole Cyclobalanopsis glauca (Thunb.) Oerst. to Drought Stress and Calcium Supply. Forests, 2018, 9, 667.	2.1	14
142	Changes in some antioxidant enzymes activities and carotenoid content in potato plants infected by <i>Rhizoctonia solani</i> treated with salicylic acid. Archives of Phytopathology and Plant Protection, 2018, 51, 649-661.	1.3	3
143	Effects of Calcium and Magnesium Fertilization on Antioxidant Activities during Cassava Postharvest Physiological Deterioration. Crop Science, 2018, 58, 1385-1392.	1.8	8
144	Effect of exogenous calcium on growth, nutrients uptake and plasma membrane H ⁺ -ATPase and Ca ²⁺ -ATPase activities in soybean (Glycine max) seedlings under simulated acid rain stress. Ecotoxicology and Environmental Safety, 2018, 165, 261-269.	6.0	30
145	Exogenous application of calcium chloride in wheat genotypes alleviates negative effect of drought stress by modulating antioxidant machinery and enhanced osmolyte accumulation. In Vitro Cellular and Developmental Biology - Plant, 2018, 54, 495-507.	2.1	33
146	Phytotoxic effects of trivalent chromium-enriched water irrigation in Vigna unguiculata seedling. Journal of Cleaner Production, 2018, 202, 101-108.	9.3	20

#	ARTICLE	IF	CITATIONS
147	Role of Mineral Nutrients in Plant Growth Under Extreme Temperatures. , 2018, , 499-524.		6
148	Transcriptional regulation of chlorophyll-catabolic genes associated with exogenous chemical effects and genotypic variations in heat-induced leaf senescence for perennial ryegrass. Environmental and Experimental Botany, 2019, 167, 103858.	4.2	17
150	Induction of Wheat Plant Resistance to Stressors by Donors of Nitric Oxide and Hydrogen Sulfide. , 2019, , 521-556.		3
151	Metabolic adjustment and gene expression for root sodium transport and calcium signaling contribute to salt tolerance in Agrostis grass species. Plant and Soil, 2019, 443, 219-232.	3.7	17
152	Potential Use of Sweet Potato (<i>Ipomoea batatas</i> (L.) Lam.) to Suppress Three Invasive Plant Species in Agroecosystems (<i>Ageratum conyzoides</i> L., <i>Bidens pilosa</i> L., and <i>Galinsoga parviflora</i> Cav.). Agronomy, 2019, 9, 318.	3.0	17
153	Effect of High-Temperature Stress on Crop Productivity. , 2019, , 1-114.		7
154	Effect of High-Temperature Stress on the Metabolism of Plant Growth Regulators. , 2019, , 485-591.		4
155	Drought and small-bodied herbivores modify nutrient cycling in the semi-arid shortgrass steppe. Plant Ecology, 2019, 220, 227-239.	1.6	3
156	Cadmium stress increases antioxidant enzyme activities and decreases endogenous hormone concentrations more in Cd-tolerant than Cd-sensitive wheat varieties. Ecotoxicology and Environmental Safety, 2019, 172, 380-387.	6.0	127
157	Effects of Late Season Foliar Application of Calcium Chloride on Cold Hardiness in Grapevines (<i>Vitis vinifera</i> – Thompson Seedless™). Horticulture Journal, 2019, 88, 347-353.	0.8	6
158	Role of Mineral Nutrients in Abiotic Stress Tolerance. , 2019, , 269-285.		15
159	Advances in Rice Research for Abiotic Stress Tolerance. , 2019, , 585-614.		19
160	Rice Responses and Tolerance to High Temperature. , 2019, , 201-224.		77
161	The application of plant growth regulators to improve phytoremediation of contaminated soils: A review. Chemosphere, 2019, 220, 818-827.	8.2	191
162	Response of Ornamental Pepper to High-Temperature Stress and Role of Exogenous Salicylic Acid in Mitigating High Temperature. Journal of Plant Growth Regulation, 2020, 39, 133-146.	5.1	24
163	Application of Xerophytophysiology and Signal Transduction in Plant Production: Partial Root-Zone Drying in Potato Crops. Potato Research, 2020, 63, 41-56.	2.7	9
164	Alleviating effect of silicon on melon seed germination under autotoxicity stress. Ecotoxicology and Environmental Safety, 2020, 188, 109901.	6.0	39
165	Exogenous phosphite application alleviates the adverse effects of heat stress and improves thermotolerance of potato (<i>Solanum tuberosum</i> L.) seedlings. Ecotoxicology and Environmental Safety, 2020, 190, 110048.	6.0	22

#	ARTICLE	IF	CITATIONS
167	Exogenous calcium mitigates heat stress effects in common bean: a coordinated impact of photoprotection of PSII, up-regulating antioxidants, and carbohydrate metabolism. <i>Acta Physiologiae Plantarum</i> , 2020, 42, 1.	2.1	18
168	Acid Rain Increases Impact of Rice Blast on Crop Health via Inhibition of Resistance Enzymes. <i>Plants</i> , 2020, 9, 881.	3.5	8
169	Responses of leaf gas exchange attributes, photosynthetic pigments and antioxidant enzymes in NaCl-stressed cotton (<i>Gossypium hirsutum</i> L.) seedlings to exogenous glycine betaine and salicylic acid. <i>BMC Plant Biology</i> , 2020, 20, 434.	3.6	56
171	Role of temperature on the interaction between Japanese quince <i>Chaenomeles japonica</i> and herbivorous insect <i>Aphis pomi</i> (Hemiptera: Aphidoidea). <i>Environmental and Experimental Botany</i> , 2020, 176, 104100.	4.2	12
172	The possible role of extra magnesium and nitrogen supply to alleviate stress caused by high irradiation and temperature in lemon trees. <i>Plant and Soil</i> , 2020, 457, 57-70.	3.7	24
173	Influences of calcium and magnesium ions on cellular antioxidant activity (CAA) determination. <i>Food Chemistry</i> , 2020, 320, 126625.	8.2	20
174	Insight into the Chromium-Enriched Industrial Wastewater Irrigation Practice on <i>Lablab purpureus</i> . <i>Journal of Environmental Engineering, ASCE</i> , 2020, 146, .	1.4	6
175	Ascorbate glutathione-dependent H ₂ O ₂ scavenging is an important process in axillary bud outgrowth in rosebush. <i>Annals of Botany</i> , 2020, 126, 1049-1062.	2.9	25
176	Mechanism of Ca ²⁺ -mediated NOX modulated in ROS metabolism induced by T-2 toxin in potato tuber. <i>Food Chemistry</i> , 2020, 317, 126416.	8.2	9
177	Effects of pH and nitrogen form on <i>Nitzschia closterium</i> growth by linking dynamic with enzyme activity. <i>Chemosphere</i> , 2020, 249, 126154.	8.2	8
178	Heat stress in cultivated plants: nature, impact, mechanisms, and mitigation strategies—a review. <i>Plant Biosystems</i> , 2021, 155, 211-234.	1.6	123
179	Synergistic consequences of salinity and potassium deficiency in quinoa: Linking with stomatal patterning, ionic relations and oxidative metabolism. <i>Plant Physiology and Biochemistry</i> , 2021, 159, 17-27.	5.8	27
180	Physiological and Biochemical Dissection Reveals a Trade-Off between Antioxidant Capacity and Heat Tolerance in Bread Wheat (<i>Triticum aestivum</i> L.). <i>Antioxidants</i> , 2021, 10, 351.	5.1	14
182	Integrated Assessment of Nickel Electroplating Industrial Wastewater Effluent as a Renewable Resource of Irrigation Water Using a Hydroponic Cultivation System. <i>Frontiers in Plant Science</i> , 2021, 12, 609396.	3.6	13
183	Crosstalk between abscisic acid and nitric oxide under heat stress: exploring new vantage points. <i>Plant Cell Reports</i> , 2021, 40, 1429-1450.	5.6	30
184	Drought and Heat Stress in Cool-Season Food Legumes in Sub-Tropical Regions: Consequences, Adaptation, and Mitigation Strategies. <i>Plants</i> , 2021, 10, 1038.	3.5	49
185	Calcium regulates antioxidative isozyme activity for enhancing rice adaption to acid rain stress. <i>Plant Science</i> , 2021, 306, 110876.	3.6	11
186	Identification of aquaporin members in <i>Acacia auriculiformis</i> and functional characterization of AaPIP1-2 involved in drought stress. <i>Environmental and Experimental Botany</i> , 2021, 185, 104425.	4.2	8

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187	Mitigation of heat stress responses in crops using nitrate primed seeds. <i>South African Journal of Botany</i> , 2021, 140, 25-36.	2.5	8
188	Effect of exogenous alpha-tocopherol on physio-biochemical attributes and agronomic performance of lentil (<i>Lens culinaris</i> Medik.) under drought stress. <i>PLoS ONE</i> , 2021, 16, e0248200.	2.5	30
189	Acclimation of cadmium-induced genotoxicity and oxidative stress in mung bean seedlings by priming effect of phytohormones and proline. <i>PLoS ONE</i> , 2021, 16, e0257924.	2.5	13
190	Silica nanoparticles and calcium on the histological characteristics and stem bending in gerbera cut flower. <i>Ornamental Horticulture</i> , 2021, 27, 334-343.	1.0	2
191	Supplemental calcium improves freezing tolerance of spinach (<i>Spinacia oleracea</i> L.) by mitigating membrane and photosynthetic damage, and bolstering anti-oxidant and cell-wall status. <i>Scientia Horticulturae</i> , 2021, 288, 110212.	3.6	6
193	Application of Genetic Algorithm to Predict Optimal Sowing Region and Timing for Kentucky Bluegrass in China. <i>PLoS ONE</i> , 2015, 10, e0131489.	2.5	2
194	Molecular and biochemical responses of horticultural plants and crops to heat stress. <i>Ornamental Horticulture</i> , 2020, 26, 148-158.	1.0	16
195	I. Heat stress in Triticum: kinetics of Ca and Mg accumulation. <i>Brazilian Journal of Plant Physiology</i> , 2009, 21, 123-134.	0.5	15
196	Differential Responses of Warm-season and Cool-season Turfgrass Species to Heat Stress Associated with Antioxidant Enzyme Activity. <i>Journal of the American Society for Horticultural Science</i> , 2009, 134, 417-422.	1.0	29
197	Differential Responses to Heat Stress in Activities and Isozymes of Four Antioxidant Enzymes for Two Cultivars of Kentucky Bluegrass Contrasting in Heat Tolerance. <i>Journal of the American Society for Horticultural Science</i> , 2010, 135, 116-124.	1.0	43
198	Growth and Physiological Traits Associated with Drought Survival and Post-drought Recovery in Perennial Turfgrass Species. <i>Journal of the American Society for Horticultural Science</i> , 2010, 135, 125-133.	1.0	55
199	Antioxidant Enzyme Activities and Gene Expression Patterns in Leaves of Kentucky Bluegrass in Response to Drought and Post-drought Recovery. <i>Journal of the American Society for Horticultural Science</i> , 2011, 136, 247-255.	1.0	92
200	Seed priming with calcium chloride improves the photosynthesis performance of faba bean plants subjected to cadmium stress. <i>Photosynthetica</i> , 2019, 57, 438-445.	1.7	24
201	Exogenous calcium-induced physiological and biochemical changes in tree peony (<i>Paeonia</i> section) Tj ETQq1 1 0.784314 rgBT /Overlo	1.7	10
202	Research progress in plant hydraulic conductance under different environmental factors. <i>Chinese Journal of Eco-Agriculture</i> , 2011, 19, 456-461.	0.1	1
203	Apple Peel Biochemical Changes after Foliar Application of Combined Boron and Calcium II. Photosynthetic Pigments, Total Peroxides and Photochemical Efficiency. <i>American Journal of Plant Sciences</i> , 2020, 11, 939-964.	0.8	2
204	Nutrient Management of Golf Course Putting Greens under Stresses. <i>Books in Soils, Plants, and the Environment</i> , 2010, , 987-1015.	0.1	0
205	Implication of Ions and Organic Solutes Accumulation in Amaranth (<i>Amaranthus) Tj ETQq1 1 0.784314 rgBT /Overlo 2335-2353.	0.8	3

#	ARTICLE	IF	CITATIONS
206	Effect of selenium foliar application on some quantitative and qualitative characteristics of rapeseed cultivars under end-season thermal stress. <i>Journal of Crop Breeding</i> , 2019, 11, 74-87.	0.1	0
207	The Effect of Exposure to a Combination of Stressors on Rice Productivity and Grain Yields. , 2020, , 675-727.		0
208	Nutrient Management for Improving Abiotic Stress Tolerance in Legumes of the Family Fabaceae. , 2020, , 393-415.		6
209	Ecophysiology and Response of Plants Under High Temperature Stress. , 2020, , 295-329.		1
210	Drought and heat stress combination in a changing climate. , 2022, , 33-70.		6
211	Prospect of The Black Pepper (<i>Piper nigrum</i> L.) as Natural Product Used to an Herbal Medicine. <i>Open Access Macedonian Journal of Medical Sciences</i> , 2021, 9, 563-573.	0.2	8
212	Effect of gibberellic acid (GA_3) addition on physiological parameters and metal uptake in <i>Phaseolus vulgaris</i> seedlings under cadmium and lead stress. <i>Plant Biosystems</i> , 2022, 156, 1096-1106.	1.6	3
213	Morpho-physiological and Biochemical Characterization of Chrysanthemum Varieties For Early Flowering under Heat Stress. <i>South African Journal of Botany</i> , 2022, 146, 603-613.	2.5	2
214	Effect of Saline-Nutrient Solution on Yield, Quality, and Shelf-Life of Sea Fennel (<i>Crithmum maritimum</i>)	2.8	8
215	Phenological and physiological responses of hybrid rice under different high-temperature at seedling stage. <i>Bulletin of the National Research Centre</i> , 2022, 46, .	1.8	5
216	Morpho-physiological effects of environmental stress on yield and quality of sweet corn varieties (<i>Zea mays</i> L.). <i>PeerJ</i> , 2021, 9, e12613.	2.0	2
218	Acidic and Alkaline Conditions Affect the Growth of Tree Peony Plants via Altering Photosynthetic Characteristics, Limiting Nutrient Assimilation, and Impairing ROS Balance. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5094.	4.1	5
219	Responses of Growth, Oxidative Injury and Chloroplast Ultrastructure in Leaves of <i>Lolium perenne</i> and <i>Festuca arundinacea</i> to Elevated O ₃ Concentrations. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5153.	4.1	2
220	Alleviation of cadmium toxicity in <i>Zea mays</i> L. through up-regulation of growth, antioxidant defense system and organic osmolytes under calcium supplementation. <i>PLoS ONE</i> , 2022, 17, e0269162.	2.5	5
221	Calcium induced growth, physio-biochemical, antioxidant, osmolyte adjustments and phytoconstituent status in spinach under heat stress. <i>South African Journal of Botany</i> , 2022, 149, 701-711.	2.5	9
222	Effect of water regimes and harvest times on yield and phytochemical accumulation of two ginger species. <i>Scientia Horticulturae</i> , 2022, 304, 111353.	3.6	3
223	Comprehensive evaluation of high-temperature tolerance induced by heat priming at early growth stages in winter wheat. <i>Physiologia Plantarum</i> , 2022, 174, .	5.2	5
224	Calcium chloride enhances growth and physio-biochemical performance of barley (<i>Hordeum</i>) region. <i>Journal of Water and Climate Change</i> , 2022, 13, 3357-3378.	2.9	7

#	ARTICLE	IF	CITATIONS
225	Regulation of nutrient accumulation by \hat{I}^3 -aminobutyric acid associated with GABA priming-enhanced heat tolerance in creeping bentgrass. <i>Grass Research</i> , 2022, 2, 1-8.	1.7	2
226	Effect of Exogenous Calcium on the Heat Tolerance in <i>Rosa hybrida</i> "Carolla"™. <i>Horticulturae</i> , 2022, 8, 980.	2.8	1
227	Antioxidants in Shell and Nut Yield Components after Ca, Mg and K Preharvest Spraying on Hazelnut Plantations in Southern Chile. <i>Plants</i> , 2022, 11, 3536.	3.5	1
228	Improvement of Root Yield and Ion Content of Carrot with Exogenous Application Calcium Under Salinity. <i>Gesunde Pflanzen</i> , 0, , .	3.0	0
229	Reaction of Chickpea Genotypes to Salinity-Inhibiting Applications at Different Salt Stress Levels. <i>Gesunde Pflanzen</i> , 0, , .	3.0	0
230	Effect of gibberellic acid on photosynthesis and oxidative stress response in maize under weak light conditions. <i>Frontiers in Plant Science</i> , 0, 14, .	3.6	3
231	Effects of exogenous calcium on growth, chlorophyll fluorescence characteristics and antioxidant system of <i>Fraxinus malacophylla</i> seedlings. <i>Plant Physiology and Biochemistry</i> , 2023, 201, 107860.	5.8	1
232	Response of different substrates and irrigation water levels on yield and oil quality of ginger grown in greenhouse. <i>Tarim Bilimleri Dergisi</i> , 0, , .	0.4	0
233	Soil Liming Ameliorates Crude Oil Stress and Promotes Biochemical Indices and Photosynthetic and Antioxidant Enzyme Activities in Lemongrass (<i>Cymbopogon citratus</i>). <i>Journal of Soil Science and Plant Nutrition</i> , 0, , .	3.4	0
234	Foliar Application of Melatonin Positively Affects the Physio-Biochemical Characteristics of Cotton (<i>Gossypium hirsutum</i> L.) under the Combined Effects of Low Temperature and Salinity Stress. <i>Plants</i> , 2023, 12, 3730.	3.5	1
235	Crop Responses to High Temperature Stress. , 2023, , 197-217.		0
236	Response of the persistence of heat stress tolerance in winter wheat seedling to heat priming at early growth stages. <i>Plant Stress</i> , 2024, 11, 100323.	5.5	0