Bingru Huang

List of Publications by Year
in descending order

294 papers	18,954 citations	17440 63 h-index	17592 121 g-index
294 all docs	294 docs citations	294 times ranked	14126 citing authors

#	Article	IF	Citations
1	Suppression subtractive hybridization: a method for generating differentially regulated or tissue-specific cDNA probes and libraries.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 6025-6030.	7.1	2,822
2	Mechanism of Salinity Tolerance in Plants: Physiological, Biochemical, and Molecular Characterization. International Journal of Genomics, 2014, 2014, 1-18.	1.6	1,261
3	Involvement of antioxidants and lipid peroxidation in the adaptation of two cool-season grasses to localized drought stress. Environmental and Experimental Botany, 2001, 45, 105-114.	4.2	511
4	Thermotolerance and antioxidant systems in Agrostis stolonifera: Involvement of salicylic acid, abscisic acid, calcium, hydrogen peroxide, and ethylene. Journal of Plant Physiology, 2004, 161, 405-413.	3.5	410
5	Drought and Heat Stress Injury to Two Coolâ€Season Turfgrasses in Relation to Antioxidant Metabolism and Lipid Peroxidation. Crop Science, 2001, 41, 436-442.	1.8	379
6	Heat Stress Injury in Relation to Membrane Lipid Peroxidation in Creeping Bentgrass. Crop Science, 2000, 40, 503-510.	1.8	376
7	Nitric oxide is involved in abscisic acid-induced antioxidant activities in Stylosanthes guianensis. Journal of Experimental Botany, 2005, 56, 3223-3228.	4.8	368
8	Effects of calcium on antioxidant activities and water relations associated with heat tolerance in two coolâ€season grasses. Journal of Experimental Botany, 2001, 52, 341-349.	4.8	236
9	Melatonin suppression of heat-induced leaf senescence involves changes in abscisic acid and cytokinin biosynthesis and signaling pathways in perennial ryegrass (Lolium perenne L.). Environmental and Experimental Botany, 2017, 138, 36-45.	4.2	214
10	Effects of Salicylic Acid on Heat Tolerance Associated with Antioxidant Metabolism in Kentucky Bluegrass. Crop Science, 2005, 45, 988-995.	1.8	174
11	Research Advances in Mechanisms of Turfgrass Tolerance to Abiotic Stresses: From Physiology to Molecular Biology. Critical Reviews in Plant Sciences, 2014, 33, 141-189.	5.7	162
12	Growth, physiological and anatomical responses of two wheat genotypes to waterlogging and nutrient supply. Journal of Experimental Botany, 1994, 45, 193-202.	4.8	157
13	Changes of lipid composition and saturation level in leaves and roots for heat-stressed and heat-acclimated creeping bentgrass (Agrostis stolonifera). Environmental and Experimental Botany, 2004, 51, 57-67.	4.2	157
14	Physiological Recovery of Kentucky Bluegrass from Simultaneous Drought and Heat Stress. Crop Science, 2004, 44, 1729-1736.	1.8	155
15	Regulation of plant water loss by manipulating the expression of phospholipase DÎ±. Plant Journal, 2001, 28, 135-144.	5.7	153
16	Metabolic pathways regulated by abscisic acid, salicylic acid and Î³â€aminobutyric acid in association with improved drought tolerance in creeping bentgrass (<i>Agrostis stolonifera</i>). Physiologia Plantarum, 2017, 159, 42-58.	5.2	150
17	Elevated cytokinin content in ipt transgenic creeping bentgrass promotes drought tolerance through regulating metabolite accumulation. Journal of Experimental Botany, 2012, 63, 1315-1328.	4.8	149
18	Protein accumulation in leaves and roots associated with improved drought tolerance in creeping bentgrass expressing an ipt gene for cytokinin synthesis. Journal of Experimental Botany, 2011, 62, 5311-5333.	4.8	145

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19	Changes in Antioxidant Enzyme Activities and Lipid Peroxidation for Bentgrass Species in Response to Drought Stress. Journal of the American Society for Horticultural Science, 2007, 132, 319-326.	1.0	141
20	Root carbon and protein metabolism associated with heat tolerance. Journal of Experimental Botany, 2012, 63, 3455-3465.	4.8	137
21	Enhancing cytokinin synthesis by overexpressing<i>ipt</i>alleviated drought inhibition of root growth through activating ROS-scavenging systems in<i>Agrostis stolonifera</i>. Journal of Experimental Botany, 2016, 67, 1979-1992.	4.8	137
22	Interactive effects of melatonin and cytokinin on alleviating drought-induced leaf senescence in creeping bentgrass (Agrostis stolonifera). Environmental and Experimental Botany, 2018, 145, 1-11.	4.2	135
23	Identification and Characterization of Proteins Associated with Plant Tolerance to Heat Stress. Journal of Integrative Plant Biology, 2008, 50, 1230-1237.	8.5	133
24	Droughtâ€Resistance Mechanisms of Seven Warmâ€Season Turfgrasses under Surface Soil Drying: II. Root Aspects. Crop Science, 1997, 37, 1863-1869.	1.8	132
25	Diffusion limitations and metabolic factors associated with inhibition and recovery of photosynthesis from drought stress in a C₃perennial grass species. Physiologia Plantarum, 2010, 139, 93-106.	5.2	132
26	Metabolic pathways regulated by Î³-aminobutyric acid (GABA) contributing to heat tolerance in creeping bentgrass (Agrostis stolonifera). Scientific Reports, 2016, 6, 30338.	3.3	130
27	Growth and Physiological Responses of Creeping Bentgrass to Changes in Air and Soil Temperatures. Crop Science, 2000, 40, 1363-1368.	1.8	118
28	Root Physiological Characteristics Associated with Drought Resistance in Tall Fescue Cultivars. Crop Science, 2000, 40, 196-203.	1.8	114
29	Effects of Abscisic Acid, Salicylic Acid, Ethylene and Hydrogen Peroxide in Thermotolerance and Recovery for Creeping Bentgrass. Plant Growth Regulation, 2005, 47, 17-28.	3.4	113
30	Root proteomic responses to heat stress in two Agrostis grass species contrasting in heat tolerance. Journal of Experimental Botany, 2008, 59, 4183-4194.	4.8	113
31	Effects of Differential Air and Soil Temperature on Carbohydrate Metabolism in Creeping Bentgrass. Crop Science, 2000, 40, 1368-1374.	1.8	112
32	Involvement of the plant antioxidative response in the differential growth sensitivity to salinity of leaves vs roots during cell development. Free Radical Biology and Medicine, 2010, 49, 1161-1171.	2.9	110
33	Protein Alterations in Tall Fescue in Response to Drought Stress and Abscisic Acid. Crop Science, 2002, 42, 202-207.	1.8	109
34	Physiological Responses to Heat Stress Alone or in Combination with Drought: A Comparison between Tall Fescue and Perennial Ryegrass. Hortscience: A Publication of the American Society for Hortcultural Science, 2001, 36, 682-686.	1.0	103
35	Root Anatomical, Physiological, and Morphological Responses to Drought Stress for Tall Fescue Cultivars. Crop Science, 1998, 38, 1017-1022.	1.8	102
36	Photosynthesis, water use, and root viability under water stress as affected by expression of SAG12-ipt controlling cytokinin synthesis in Agrostis stolonifera. Journal of Experimental Botany, 2011, 62, 383-395.	4.8	102

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37	Differential metabolic responses of perennial grass <i>Cynodon transvaalensis</i>Ã—<i>Cynodon dactylon</i> (C₄) and <i>Poa Pratensis</i> (C₃) to heat stress. Physiologia Plantarum, 2011, 141, 251-264.	5.2	98
38	Differential accumulation of dehydrins in response to water stress for hybrid and common bermudagrass genotypes differing in drought tolerance. Journal of Plant Physiology, 2010, 167, 103-109.	3.5	97
39	Effects of Drought or Heat Stress Alone and in Combination on Kentucky Bluegrass. Crop Science, 2000, 40, 1358-1362.	1.8	94
40	Root Respiration and Carbohydrate Status of Two Wheat Genotypes in Response to Hypoxia. Annals of Botany, 1995, 75, 427-432.	2.9	92
41	Antioxidant Enzyme Activities and Gene Expression Patterns in Leaves of Kentucky Bluegrass in Response to Drought and Post-drought Recovery. Journal of the American Society for Horticultural Science, 2011, 136, 247-255.	1.0	92
42	Root and Shoot Growth of Wheat Genotypes in Response to Hypoxia and Subsequent Resumption of Aeration. Crop Science, 1994, 34, 1538-1544.	1.8	90
43	Chlorophyll loss associated with heat-induced senescence in bentgrass. Plant Science, 2016, 249, 1-12.	3.6	89
44	Metabolic Responses to Heat Stress under Elevated Atmospheric CO2 Concentration in a Cool-season Grass Species. Journal of the American Society for Horticultural Science, 2012, 137, 221-228.	1.0	86
45	Protein profile analysis of salt-responsive proteins in leaves and roots in two cultivars of creeping bentgrass differing in salinity tolerance. Plant Cell Reports, 2010, 29, 595-615.	5.6	84
46	Exogenous Melatonin Suppresses Dark-Induced Leaf Senescence by Activating the Superoxide Dismutase-Catalase Antioxidant Pathway and Down-Regulating Chlorophyll Degradation in Excised Leaves of Perennial Ryegrass (Lolium perenne L.). Frontiers in Plant Science, 2016, 7, 1500.	3.6	83
47	Title is missing!. Plant and Soil, 1999, 208, 179-186.	3.7	81
48	Proteomic changes associated with expression of a gene (ipt) controlling cytokinin synthesis for improving heat tolerance in a perennial grass species. Journal of Experimental Botany, 2010, 61, 3273-3289.	4.8	81
49	Droughtâ€Resistance Mechanisms of Seven Warmâ€Season Turfgrasses under Surface Soil Drying: I. Shoot Response. Crop Science, 1997, 37, 1858-1863.	1.8	79
50	Osmotic Adjustment and Root Growth Associated with Drought Preconditioningâ€Enhanced Heat Tolerance in Kentucky Bluegrass. Crop Science, 2001, 41, 1168-1173.	1.8	79
51	Shoot Physiological Responses of Two Bentgrass Cultivars to High Temperature and Poor Soil Aeration. Crop Science, 1998, 38, 1219-1224.	1.8	77
52	Title is missing!. Plant and Soil, 2000, 227, 17-26.	3.7	77
53	Heat Shock Proteins in Association with Heat Tolerance in Grasses. International Journal of Proteomics, 2011, 2011, 1-11.	2.0	76
54	Addressing Research Bottlenecks to Crop Productivity. Trends in Plant Science, 2021, 26, 607-630.	8.8	76

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55	Lipidomic reprogramming associated with drought stress primingâ€enhanced heat tolerance in tall fescue (<scp><i>Festuca arundinacea</i></scp>). Plant, Cell and Environment, 2019, 42, 947-958.	5.7	75
56	Root respiratory characteristics associated with plant adaptation to high soil temperature for geothermal and turf-type Agrostis species. Journal of Experimental Botany, 2006, 57, 623-631.	4.8	74
57	Effects of Elevated CO₂ on Physiological Responses of Tall Fescue to Elevated Temperature, Drought Stress, and the Combined Stresses. Crop Science, 2012, 52, 1848-1858.	1.8	74
58	Minimum Water Requirements of Four Turfgrasses in the Transition Zone. Hortscience: A Publication of the American Society for Hortcultural Science, 2004, 39, 1740-1744.	1.0	74
59	Growth and Carbohydrate Metabolism of Creeping Bentgrass Cultivars in Response to Increasing Temperatures. Crop Science, 2000, 40, 1115-1120.	1.8	72
60	Cytokinin Effects on Creeping Bentgrass Response to Heat Stress: II. Leaf Senescence and Antioxidant Metabolism. Crop Science, 2002, 42, 466-472.	1.8	71
61	Overexpression of barley hva1 gene in creeping bentgrass for improving drought tolerance. Plant Cell Reports, 2007, 26, 467-477.	5.6	71
62	Identification of proteins associated with waterâ€deficit tolerance in C₄ perennial grass species, <i>Cynodon dactylon</i>Ã—<i>Cynodon transvaalensis</i> and <i>Cynodon dactylon</i>. Physiologia Plantarum, 2011, 141, 40-55.	5.2	71
63	Effects of High Temperature and Poor Soil Aeration on Root Growth and Viability of Creeping Bentgrass. Crop Science, 1998, 38, 1618-1622.	1.8	69
64	Effects of SAG12-ipt and HSP18.2-ipt Expression on Cytokinin Production, Root Growth, and Leaf Senescence in Creeping Bentgrass Exposed to Drought Stress. Journal of the American Society for Horticultural Science, 2010, 135, 230-239.	1.0	69
65	Osmotic Adjustment Associated with Variation in Bentgrass Tolerance to Drought Stress. Journal of the American Society for Horticultural Science, 2006, 131, 338-344.	1.0	68
66	Linking Hydraulic Conductivity to Anatomy in Plants that Vary in Specific Root Length. Journal of the American Society for Horticultural Science, 2000, 125, 260-264.	1.0	67
67	Evaluation of Drought Resistance for Texas Bluegrass, Kentucky Bluegrass, and Their Hybrids. Crop Science, 2004, 44, 1746-1753.	1.8	66
68	Minimum Water Requirements for Creeping, Colonial, and Velvet Bentgrasses under Fairway Conditions. Crop Science, 2006, 46, 81-89.	1.8	66
69	Identification and characterization of an expansin gene AsEXP1 associated with heat tolerance in C3 Agrostis grass species. Journal of Experimental Botany, 2007, 58, 3789-3796.	4.8	66
70	Transgenic Tobacco Plants Overexpressing a Grass PpEXP1 Gene Exhibit Enhanced Tolerance to Heat Stress. PLoS ONE, 2014, 9, e100792.	2.5	66
71	Physiological Responses of Diverse Tall Fescue Cultivars to Drought Stress. Hortscience: A Publication of the American Society for Hortcultural Science, 1999, 34, 897-901.	1.0	66
72	Effects of Abscisic Acid on Drought Responses of Kentucky Bluegrass. Journal of the American Society for Horticultural Science, 2003, 128, 36-41.	1.0	65

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73	Carbohydrate Accumulation in Relation to Heat Stress Tolerance in Two Creeping Bentgrass Cultivars. Journal of the American Society for Horticultural Science, 2000, 125, 442-447.	1.0	64
74	Leaf Senescence and Protein Metabolism in Creeping Bentgrass Exposed to Heat Stress and Treated with Cytokinins. Journal of the American Society for Horticultural Science, 2007, 132, 467-472.	1.0	63
75	Root physiological factors involved in cool-season grass response to high soil temperature. Environmental and Experimental Botany, 2005, 53, 233-245.	4.2	61
76	Functional characterization of salicylate hydroxylase from the fungal endophyte EpichloÃ« festucae. Scientific Reports, 2015, 5, 10939.	3.3	60
77	Cytokinin-mitigation of salt-induced leaf senescence in perennial ryegrass involving the activation of antioxidant systems and ionic balance. Environmental and Experimental Botany, 2016, 125, 1-11.	4.2	60
78	Effects of Foliarâ€Applied Ethylene Inhibitor and Synthetic Cytokinin on Creeping Bentgrass to Enhance Heat Tolerance. Crop Science, 2009, 49, 1876-1884.	1.8	60
79	Photosynthetic enzyme activities and gene expression associated with drought tolerance and post-drought recovery in Kentucky bluegrass. Environmental and Experimental Botany, 2013, 89, 28-35.	4.2	59
80	Effects of SAG12-ipt expression on cytokinin production, growth and senescence of creeping bentgrass (Agrostis stolonifera L.) under heat stress. Plant Growth Regulation, 2009, 57, 281-291.	3.4	58
81	Functional characterization and hormonal regulation of the<i>PHEOPHYTINASE</i>gene<i>LpPPH</i>controlling leaf senescence in perennial ryegrass. Journal of Experimental Botany, 2016, 67, 935-945.	4.8	58
82	Molecular regulation and physiological functions of a novel <i>FaHsfA2c</i> cloned from tall fescue conferring plant tolerance to heat stress. Plant Biotechnology Journal, 2017, 15, 237-248.	8.3	58
83	Morphological and Physiological Characteristics Associated with Heat Tolerance in Creeping Bentgrass. Crop Science, 2001, 41, 127-133.	1.8	57
84	Membrane Fatty Acid Composition and Saturation Levels Associated with Leaf Dehydration Tolerance and Postâ€Drought Rehydration in Kentucky Bluegrass. Crop Science, 2011, 51, 273-281.	1.8	57
85	Protein Alterations in Tall Fescue in Response to Drought Stress and Abscisic Acid. Crop Science, 2002, 42, 202.	1.8	56
86	Hydraulic Conductivity and Anatomy for Lateral Roots ofAgave desertiDuring Root Growth and Drought-induced Abscission. Journal of Experimental Botany, 1992, 43, 1441-1449.	4.8	55
87	Supraoptimal Soil Temperatures Induced Oxidative Stress in Leaves of Creeping Bentgrass Cultivars Differing in Heat Tolerance. Crop Science, 2001, 41, 430-435.	1.8	55
88	Assimilation and allocation of carbon and nitrogen of thermal and nonthermal Agrostis species in response to high soil temperature. New Phytologist, 2006, 170, 479-490.	7.3	55
89	Aluminium-induced reduction of plant growth in alfalfa (Medicago sativa) is mediated by interrupting auxin transport and accumulation in roots. Scientific Reports, 2016, 6, 30079.	3.3	55
90	Growth and Physiological Traits Associated with Drought Survival and Post-drought Recovery in Perennial Turfgrass Species. Journal of the American Society for Horticultural Science, 2010, 135, 125-133.	1.0	55

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91	Cytokinin Effects on Creeping Bentgrass Responses to Heat Stress: I. Shoot and Root Growth. Crop Science, 2002, 42, 457-465.	1.8	54
92	Root Characteristics and Hormone Activity of Wheat in Response to Hypoxia and Ethylene. Crop Science, 1997, 37, 812-818.	1.8	53
93	Selection of reference genes for quantitative real-time PCR normalization in creeping bentgrass involved in four abiotic stresses. Plant Cell Reports, 2015, 34, 1825-1834.	5.6	53
94	Drought Stress Responses and Recovery of Texas Ã— Kentucky Hybrids and Kentucky Bluegrass Genotypes in Temperate Climate Conditions. Agronomy Journal, 2010, 102, 258-268.	1.8	52
95	Effects of Cytokinin and Potassium on Stomatal and Photosynthetic Recovery of Kentucky Bluegrass from Drought Stress. Crop Science, 2013, 53, 221-231.	1.8	52
96	Heatâ€Induced Leaf Senescence Associated with Chlorophyll Metabolism in Bentgrass Lines Differing in Heat Tolerance. Crop Science, 2017, 57, S-169.	1.8	51
97	Cytokinin Effects on Creeping Bentgrass Response to Heat Stress. Crop Science, 2002, 42, 466.	1.8	51
98	Physiological factors involved in positive effects of elevated carbon dioxide concentration on Bermudagrass tolerance to salinity stress. Environmental and Experimental Botany, 2015, 115, 20-27.	4.2	50
99	Hydraulic conductivity and anatomy along lateral roots of cacti: changes with soil water status. New Phytologist, 1993, 123, 499-507.	7.3	49
100	Effects of Trinexapacâ€Ethyl Foliar Application on Creeping Bentgrass Responses to Combined Drought and Heat Stress. Crop Science, 2007, 47, 2121-2128.	1.8	49
101	Cytochrome and alternative pathway activity in roots of thermal and non-thermal Agrostis species in response to high soil temperature. Physiologia Plantarum, 2007, 129, 163-174.	5.2	49
102	Differential proteomic response to heat stress in thermal Agrostis scabra and heat-sensitive Agrostis stolonifera. Physiologia Plantarum, 2010, 139, 192-204.	5.2	49
103	Differential proteomic responses to water stress induced by PEG in two creeping bentgrass cultivars differing in stress tolerance. Journal of Plant Physiology, 2010, 167, 1477-1485.	3.5	49
104	Cellular and Molecular Mechanisms for Elevated CO₂â€"Regulation of Plant Growth and Stress Adaptation. Crop Science, 2015, 55, 1405-1424.	1.8	48
105	Ascorbic acid mitigation of water stress-inhibition of root growth in association with oxidative defense in tall fescue (Festuca arundinacea Schreb.). Frontiers in Plant Science, 2015, 6, 807.	3.6	48
106	Identification and Validation of Reference Genes for Quantification of Target Gene Expression with Quantitative Real-time PCR for Tall Fescue under Four Abiotic Stresses. PLoS ONE, 2015, 10, e0119569.	2.5	48
107	Root growth and nutrient element status of creeping bentgrass cultivars differing in heat tolerance as influenced by supraoptimal shoot and root temperatures. Journal of Plant Nutrition, 2000, 23, 979-990.	1.9	46
108	Agrobacterium-Mediated Transformation of Creeping Bentgrass Using GFP as a Reporter Gene. Hereditas, 2004, 133, 229-223.	1.4	46

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109	Proteins associated with heat-induced leaf senescence in creeping bentgrass as affected by foliar application of nitrogen, cytokinins, and an ethylene inhibitor. Proteomics, 2015, 15, 798-812.	2.2	46
110	An efficient protocol for perennial ryegrass mesophyll protoplast isolation and transformation, and its application on interaction study between LpNOL and LpNYC1. Plant Methods, 2017, 13, 46.	4.3	46
111	Alteration of Transcripts of Stress-Protective Genes and Transcriptional Factors by Î³-Aminobutyric Acid (GABA) Associated with Improved Heat and Drought Tolerance in Creeping Bentgrass (Agrostis) Tj ETQq1 1 0.784314 rgBT /Overlo	4.1	46
112	Mowing Effects on Root Production, Growth, and Mortality of Creeping Bentgrass. Crop Science, 2002, 42, 1241-1250.	1.8	45
113	Up-Regulation of HSFA2c and HSPs by ABA Contributing to Improved Heat Tolerance in Tall Fescue and Arabidopsis. International Journal of Molecular Sciences, 2017, 18, 1981.	4.1	45
114	Metabolic Responses of Hybrid Bermudagrass to Short-term and Long-term Drought Stress. Journal of the American Society for Horticultural Science, 2012, 137, 411-420.	1.0	45
115	Identification of differentially expressed salt-responsive proteins in roots of two perennial grass species contrasting in salinity tolerance. Journal of Plant Physiology, 2012, 169, 117-126.	3.5	44
116	Selection and validation of reference genes for target gene analysis with quantitative <scp>RTâ€PCR</scp> in leaves and roots of bermudagrass under four different abiotic stresses. Physiologia Plantarum, 2015, 155, 138-148.	5.2	44
117	Abscisic acid mediation of drought primingâ€enhanced heat tolerance in tall fescue (<scp><i>Festuca) Tj ETQq1 1 0.784314 rgBT /Over	5.2	44
118	Characterization and Functional Analysis of FaHsfC1b from Festuca arundinacea Conferring Heat Tolerance in Arabidopsis. International Journal of Molecular Sciences, 2018, 19, 2702.	4.1	43
119	Water Relations and Canopy Characteristics of Tall Fescue Cultivars during and after Drought Stress. Hortscience: A Publication of the American Society for Hortcultural Science, 1998, 33, 837-840.	1.0	43
120	Differential Responses to Heat Stress in Activities and Isozymes of Four Antioxidant Enzymes for Two Cultivars of Kentucky Bluegrass Contrasting in Heat Tolerance. Journal of the American Society for Horticultural Science, 2010, 135, 116-124.	1.0	43
121	Deficit Irrigation Effects on Water Use Characteristics of Bentgrass Species. Crop Science, 2006, 46, 1779-1786.	1.8	42
122	Protein Extraction for Twoâ€Dimensional Gel Electrophoresis of Proteomic Profiling in Turfgrass. Crop Science, 2008, 48, 1608-1614.	1.8	42
123	Antioxidant Responses of Radiation-induced Dwarf Mutants of Bermudagrass to Drought Stress. Journal of the American Society for Horticultural Science, 2008, 133, 360-366.	1.0	42
124	Osmotic Potential, Sucrose Level, and Activity of Sucrose Metabolic Enzymes in Tall Fescue in Response to Deficit Irrigation. Journal of the American Society for Horticultural Science, 2010, 135, 506-510.	1.0	42
125	Photosynthetic acclimation to high temperatures associated with heat tolerance in creeping bentgrass. Journal of Plant Physiology, 2008, 165, 1947-1953.	3.5	41
126	Strigolactones and interaction with auxin regulating root elongation in tall fescue under different temperature regimes. Plant Science, 2018, 271, 34-39.	3.6	41

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127	Cytokinin Effects on Creeping Bentgrass Responses to Heat Stress. Crop Science, 2002, 42, 457.	1.8	41
128	Effects of calcium on antioxidant activities and water relations associated with heat tolerance in two cool-season grasses. Journal of Experimental Botany, 2001, 52, 341-9.	4.8	41
129	Identification of heat stress-responsive genes in heat-adapted thermal Agrostis scabra by suppression subtractive hybridization. Journal of Plant Physiology, 2009, 166, 588-601.	3.5	40
130	Differential Heatâ€Induced Changes in Phenolic Acids Associated with Genotypic Variations in Heat Tolerance for Hard Fescue. Crop Science, 2019, 59, 667-674.	1.8	40
131	Metabolite Responses to Exogenous Application of Nitrogen, Cytokinin, and Ethylene Inhibitors in Relation to Heat-Induced Senescence in Creeping Bentgrass. PLoS ONE, 2015, 10, e0123744.	2.5	39
132	Responses of Cytokinins, Antioxidant Enzymes, and Lipid Peroxidation in Shoots of Creeping Bentgrass to High Root-zone Temperatures. Journal of the American Society for Horticultural Science, 2003, 128, 648-655.	1.0	39
133	Differential Effects of Abscisic Acid and Glycine Betaine on Physiological Responses to Drought and Salinity Stress for Two Perennial Grass Species. Journal of the American Society for Horticultural Science, 2012, 137, 96-106.	1.0	39
134	Physiological Adaptation of Kentucky Bluegrass to Localized Soil Drying. Crop Science, 2004, 44, 1307-1314.	1.8	38
135	Antioxidant enzymatic activities and gene expression associated with heat tolerance in a cool-season perennial grass species. Environmental and Experimental Botany, 2013, 87, 159-166.	4.2	38
136	Comprehensive analysis of CCCH-type zinc finger family genes facilitates functional gene discovery and reflects recent allopolyploidization event in tetraploid switchgrass. BMC Genomics, 2015, 16, 129.	2.8	38
137	Gibberellic acid inhibition of tillering in tall fescue involving crosstalks with cytokinins and transcriptional regulation of genes controlling axillary bud outgrowth. Plant Science, 2019, 287, 110168.	3.6	38
138	Genotypic Variation in Abscisic Acid Accumulation, Water Relations, and Gas Exchange for Kentucky Bluegrass Exposed to Drought Stress. Journal of the American Society for Horticultural Science, 2003, 128, 349-355.	1.0	38
139	Lowering Soil Temperatures Improves Creeping Bentgrass Growth under Heat Stress. Crop Science, 2001, 41, 1878-1883.	1.8	37
140	Effects of Foliar Application of Nutrients on Heat Tolerance of Creeping Bentgrass. Journal of Plant Nutrition, 2003, 26, 81-96.	1.9	37
141	Physiological and Metabolic Effects of 5-Aminolevulinic Acid for Mitigating Salinity Stress in Creeping Bentgrass. PLoS ONE, 2014, 9, e116283.	2.5	37
142	Photosynthesis and protein metabolism associated with elevated CO2-mitigation of heat stress damages in tall fescue. Environmental and Experimental Botany, 2014, 99, 75-85.	4.2	37
143	Transcriptional regulation of heat shock proteins and ascorbate peroxidase by CtHsfA2b from African bermudagrass conferring heat tolerance in Arabidopsis. Scientific Reports, 2016, 6, 28021.	3.3	37
144	Whole-plant carbon relations and root respiration associated with root tolerance to high soil temperature for Agrostis grasses. Environmental and Experimental Botany, 2007, 59, 307-313.	4.2	36

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145	Differential profiles of membrane proteins, fatty acids, and sterols associated with genetic variations in heat tolerance for a perennial grass species, hard fescue (Festuca Trachyphylla). Environmental and Experimental Botany, 2017, 140, 65-75.	4.2	36
146	Differential Responses of Amino Acids and Soluble Proteins to Heat Stress Associated with Genetic Variations in Heat Tolerance for Hard Fescue. Journal of the American Society for Horticultural Science, 2018, 143, 45-55.	1.0	36
147	Heat-induced Leaf Senescence and Hormonal Changes for Thermal Bentgrass and Turf-type Bentgrass Species Differing in Heat Tolerance. Journal of the American Society for Horticultural Science, 2007, 132, 185-192.	1.0	36
148	Upâ€regulation of lipid metabolism and glycine betaine synthesis are associated with cholineâ€induced salt tolerance in halophytic seashore paspalum. Plant, Cell and Environment, 2020, 43, 159-173.	5.7	35
149	Differential Photosynthetic Responses to Salinity Stress between Two Perennial Grass Species Contrasting in Salinity Tolerance. Hortscience: A Publication of the American Society for Hortcultural Science, 2011, 46, 311-316.	1.0	35
150	Identification of Metabolites Associated with Superior Heat Tolerance in Thermal Bentgrass through Metabolic Profiling. Crop Science, 2013, 53, 1626-1635.	1.8	34
151	Knockdown of<i>STAYGREEN</i>in Perennial Ryegrass (<i>Lolium perenne</i>L.) Leads to Transcriptomic Alterations Related to Suppressed Leaf Senescence and Improved Forage Quality. Plant and Cell Physiology, 2019, 60, 202-212.	3.1	34
152	Changes in Carbon Partitioning and Accumulation Patterns during Drought and Recovery for Colonial Bentgrass, Creeping Bentgrass, and Velvet Bentgrass. Journal of the American Society for Horticultural Science, 2006, 131, 484-490.	1.0	34
153	Nutrient accumulation and distribution of wheat genotypes in response to waterlogging and nutrient supply. Plant and Soil, 1995, 173, 47-54.	3.7	33
154	Antioxidant Metabolism Associated with Summer Leaf Senescence and Turf Quality Decline for Creeping Bentgrass. Crop Science, 2004, 44, 553-560.	1.8	33
155	Metabolic Effects of Acibenzolar-S-Methyl for Improving Heat or Drought Stress in Creeping Bentgrass. Frontiers in Plant Science, 2017, 8, 1224.	3.6	33
156	Transcriptional Responses of Creeping Bentgrass to 2,3-Butanediol, a Bacterial Volatile Compound (BVC) Analogue. Molecules, 2017, 22, 1318.	3.8	32
157	Characterization of Dehydrin protein, CdDHN4-L and CdDHN4-S, and their differential protective roles against abiotic stress in vitro. BMC Plant Biology, 2018, 18, 299.	3.6	32
158	Comparative transcriptomic analysis reveals common molecular factors responsive to heat and drought stress in Agrostis stolonifera. Scientific Reports, 2018, 8, 15181.	3.3	32
159	Elevated CO2-Mitigation of High Temperature Stress Associated with Maintenance of Positive Carbon Balance and Carbohydrate Accumulation in Kentucky Bluegrass. PLoS ONE, 2014, 9, e89725.	2.5	31
160	The optimal CO2 concentrations for the growth of three perennial grass species. BMC Plant Biology, 2018, 18, 27.	3.6	31
161	Evaluation of Drought Tolerance and Avoidance Traits for Six Creeping Bentgrass Cultivars. Hortscience: A Publication of the American Society for Hortcultural Science, 2008, 43, 519-524.	1.0	31
162	Protein Changes during Heat Stress in Three Kentucky Bluegrass Cultivars Differing in Heat Tolerance. Crop Science, 2007, 47, 2513-2520.	1.8	30

#	Article	IF	Citations
163	Photosynthetic Responses of Bermudagrass to Drought Stress Associated with Stomatal and Metabolic Limitations. Crop Science, 2009, 49, 1902-1909.	1.8	30
164	Metabolic Pathways Involved in Carbon Dioxide Enhanced Heat Tolerance in Bermudagrass. Frontiers in Plant Science, 2017, 8, 1506.	3.6	30
165	Candidate Genes and Molecular Markers Correlated to Physiological Traits for Heat Tolerance in Fine Fescue Cultivars. International Journal of Molecular Sciences, 2018, 19, 116.	4.1	30
166	Drought Survival and Recuperative Ability of Bentgrass Species Associated with Changes in Abscisic Acid and Cytokinin Production. Journal of the American Society for Horticultural Science, 2007, 132, 60-66.	1.0	30
167	Gibberellin-Regulation and Genetic Variations in Leaf Elongation for Tall Fescue in Association with Differential Gene Expression Controlling Cell Expansion. Scientific Reports, 2016, 6, 30258.	3.3	29
168	Differential Responses of Warm-season and Cool-season Turfgrass Species to Heat Stress Associated with Antioxidant Enzyme Activity. Journal of the American Society for Horticultural Science, 2009, 134, 417-422.	1.0	29
169	Suppression of Shade- or Heat-induced Leaf Senescence in Creeping Bentgrass through Transformation with the ipt Gene for Cytokinin Synthesis. Journal of the American Society for Horticultural Science, 2009, 134, 602-609.	1.0	29
170	Physiological Effects of Î³-Aminobutyric Acid Application on Improving Heat and Drought Tolerance in Creeping Bentgrass. Journal of the American Society for Horticultural Science, 2016, 141, 76-84.	1.0	29
171	Protein Changes in Response to Heat Stress in Acclimated and Nonacclimated Creeping Bentgrass. Journal of the American Society for Horticultural Science, 2005, 130, 521-526.	1.0	28
172	Responses to Rootâ€Zone CO₂ Enrichment and Hypoxia of Wheat Genotypes Differing in Waterlogging Tolerance. Crop Science, 1997, 37, 464-468.	1.8	27
173	Differential gene expression in shoots and roots under heat stress for a geothermal and non-thermal Agrostis grass species contrasting in heat tolerance. Environmental and Experimental Botany, 2008, 63, 240-247.	4.2	27
174	Freezing Tolerance and Carbohydrate Changes of Two <i>Agrostis</i> Species during Cold Acclimation. Crop Science, 2011, 51, 1188-1197.	1.8	27
175	Functional Identification and Characterization of Genes Cloned from Halophyte Seashore Paspalum Conferring Salinity and Cadmium Tolerance. Frontiers in Plant Science, 2016, 7, 102.	3.6	27
176	Identification and Validation of Reference Genes for Seashore Paspalum Response to Abiotic Stresses. International Journal of Molecular Sciences, 2017, 18, 1322.	4.1	27
177	Improved cold tolerance in switchgrass by a novel CCCH-type zinc finger transcription factor gene, PvC3H72, associated with ICE1â€“CBFâ€“COR regulon and ABA-responsive genes. Biotechnology for Biofuels, 2019, 12, 224.	6.2	27
178	Comparative Analysis of Drought Responsive Proteins in Kentucky Bluegrass Cultivars Contrasting in Drought Tolerance. Crop Science, 2010, 50, 2543-2552.	1.8	26
179	Suppression of heat-induced leaf senescence by Î³-aminobutyric acid, proline, and ammonium nitrate through regulation of chlorophyll degradation in creeping bentgrass. Environmental and Experimental Botany, 2020, 177, 104116.	4.2	26
180	Short-term and long-term root respiratory acclimation to elevated temperatures associated with root thermotolerance for two Agrostis grass species. Journal of Experimental Botany, 2008, 59, 3803-3809.	4.8	25

#	Article	IF	Citations
181	Lipid- and calcium-signaling regulation of HsfA2c -mediated heat tolerance in tall fescue. Environmental and Experimental Botany, 2017, 136, 59-67.	4.2	25
182	Drought inhibition of tillering in Festuca arundinacea associated with axillary bud development and strigolactone signaling. Environmental and Experimental Botany, 2017, 142, 15-23.	4.2	24
183	Seasonal Changes and Cultivar Difference in Turf Quality, Photosynthesis, and Respiration of Creeping Bentgrass. Hortscience: A Publication of the American Society for Hortcultural Science, 2001, 36, 1131-1135.	1.0	24
184	Effects of Trinexapac-ethyl on Drought Responses in Creeping Bentgrass Associated with Water Use and Osmotic Adjustment. Journal of the American Society for Horticultural Science, 2009, 134, 505-510.	1.0	24
185	Metabolic and Physiological Regulation of Aspartic Acid-Mediated Enhancement of Heat Stress Tolerance in Perennial Ryegrass. Plants, 2022, 11, 199.	3.5	24
186	MECHANISMS AND STRATEGIES FOR IMPROVING DROUGHT RESISTANCE IN TURFGRASS. Acta Horticulturae, 2008, , 221-228.	0.2	23
187	Improved heat tolerance in creeping bentgrass by Î³-aminobutyric acid, proline, and inorganic nitrogen associated with differential regulation of amino acid metabolism. Plant Growth Regulation, 2021, 93, 231-242.	3.4	23
188	Differentially Expressed Genes Associated with Improved Drought Tolerance in Creeping Bentgrass Overexpressing a Gene for Cytokinin Biosynthesis. PLoS ONE, 2016, 11, e0166676.	2.5	23
189	Nutrient Accumulation and Associated Root Characteristics in Response to Drought Stress in Tall Fescue Cultivars. Hortscience: A Publication of the American Society for Hortcultural Science, 2001, 36, 148-152.	1.0	23
190	Changes in Protein Content, Protease Activity, and Amino Acid Content Associated with Heat Injury in Creeping Bentgrass. Journal of the American Society for Horticultural Science, 2005, 130, 842-847.	1.0	23
191	Transcriptional regulation of hormoneâ€synthesis and signaling pathways by overexpressing cytokininâ€synthesis contributes to improved drought tolerance in creeping bentgrass. Physiologia Plantarum, 2017, 161, 235-256.	5.2	22
192	<i>NOL</i>â€mediated functional stayâ€green traits in perennial ryegrass (<i>Lolium perenne</i> L.) involving multifaceted molecular factors and metabolic pathways regulating leaf senescence. Plant Journal, 2021, 106, 1219-1232.	5.7	22
193	Changes in Carbohydrate Metabolism in Two Kentucky Bluegrass Cultivars during Drought Stress and Recovery. Journal of the American Society for Horticultural Science, 2013, 138, 24-30.	1.0	22
194	Growth and physiological responses of creeping bentgrass (Agrostis stolonifera) to elevated carbon dioxide concentrations. Horticulture Research, 2014, 1, 14021.	6.3	21
195	Characterization of Gene Expression Associated with Drought Avoidance and Tolerance Traits in a Perennial Grass Species. PLoS ONE, 2014, 9, e103611.	2.5	21
196	Abscisic Acid Accumulation in Relation to Drought Tolerance in Kentucky Bluegrass. Hortscience: A Publication of the American Society for Hortcultural Science, 2004, 39, 1133-1137.	1.0	21
197	Drought Responses of Kentucky Bluegrass and Creeping Bentgrass as Affected by Abscisic Acid and Trinexapac-ethyl. Journal of the American Society for Horticultural Science, 2008, 133, 20-26.	1.0	21
198	Seasonal Changes in Carbohydrate Accumulation for Two Creeping Bentgrass Cultivars. Crop Science, 2003, 43, 266-271.	1.8	20

#	Article	IF	Citations
199	Proteins and Metabolites Regulated by Trinexapac-ethyl in Relation to Drought Tolerance in Kentucky Bluegrass. Journal of Plant Growth Regulation, 2012, 31, 25-37.	5.1	20
200	Differential growth and physiological responses to heat stress between two annual and two perennial cool-season turfgrasses. Scientia Horticulturae, 2014, 170, 75-81.	3.6	20
201	Root protein metabolism in association with improved root growth and drought tolerance by elevated carbon dioxide in creeping bentgrass. Field Crops Research, 2014, 165, 80-91.	5.1	20
202	Osmotic stress- and salt stress-inhibition and gibberellin-mitigation of leaf elongation associated with up-regulation of genes controlling cell expansion. Environmental and Experimental Botany, 2016, 131, 101-109.	4.2	20
203	Strigolactones Promote Leaf Elongation in Tall Fescue through Upregulation of Cell Cycle Genes and Downregulation of Auxin Transport Genes in Tall Fescue under Different Temperature Regimes. International Journal of Molecular Sciences, 2019, 20, 1836.	4.1	20
204	Improved Heat Tolerance through Drought Preconditioning Associated with Changes in Lipid Composition, Antioxidant Enzymes, and Protein Expression in Kentucky Bluegrass. Crop Science, 2012, 52, 807-817.	1.8	19
205	PpCBF3 from Cold-Tolerant Kentucky Bluegrass Involved in Freezing Tolerance Associated with Up-Regulation of Cold-Related Genes in Transgenic Arabidopsis thaliana. PLoS ONE, 2015, 10, e0132928.	2.5	19
206	Enhanced stolon growth and metabolic adjustment in creeping bentgrass with elevated CO2 concentration. Environmental and Experimental Botany, 2018, 155, 87-97.	4.2	19
207	Protective roles of salicylic acid in maintaining integrity and functions of photosynthetic photosystems for alfalfa (Medicago sativa L.) tolerance to aluminum toxicity. Plant Physiology and Biochemistry, 2020, 155, 570-578.	5.8	19
208	Differential Responses of Hybrid Bluegrass and Kentucky Bluegrass to Drought and Heat Stress. Hortscience: A Publication of the American Society for Hortcultural Science, 2008, 43, 2191-2195.	1.0	19
209	Responses of Creeping Bentgrass to Trinexapac-ethyl and Biostimulants under Summer Stress. Hortscience: A Publication of the American Society for Hortcultural Science, 2010, 45, 125-131.	1.0	19
210	Timing and Temperature of Physiological Decline for Creeping Bentgrass. Journal of the American Society for Horticultural Science, 2006, 131, 608-615.	1.0	19
211	Effects of Elevated CO2 Concentration on Water Relations and Photosynthetic Responses to Drought Stress and Recovery during Rewatering in Tall Fescue. Journal of the American Society for Horticultural Science, 2015, 140, 19-26.	1.0	19
212	Gene Expression Analysis of Alfalfa Seedlings Response to Acid-Aluminum. International Journal of Genomics, 2016, 2016, 1-13.	1.6	18
213	Differential Effects of Glycine Betaine and Spermidine on Osmotic Adjustment and Antioxidant Defense Contributing to Improved Drought Tolerance in Creeping Bentgrass. Journal of the American Society for Horticultural Science, 2017, 142, 20-26.	1.0	18
214	Candidate genes and molecular markers associated with heat tolerance in colonial Bentgrass. PLoS ONE, 2017, 12, e0171183.	2.5	18
215	Summer Root Decline. Crop Science, 2003, 43, 258.	1.8	17
216	Endogenous Cytokinin Levels and Growth Responses to Extended Photoperiods for Creeping Bentgrass under Heat Stress. Crop Science, 2004, 44, 209-213.	1.8	17

#	Article	IF	Citations
217	Expression of the ipt Gene with the AGPase S1 Promoter in Tomato Results in Unbranched Roots and Delayed Leaf Senescence. Plant Growth Regulation, 2005, 47, 47-57.	3.4	17
218	Identification of Quantitative Trait Loci Linked to Drought Tolerance in a Colonial Ã— Creeping Bentgrass Hybrid Population. Crop Science, 2012, 52, 1891-1901.	1.8	17
219	Gibberellin-Stimulation of Rhizome Elongation and Differential GA-Responsive Proteomic Changes in Two Grass Species. Frontiers in Plant Science, 2016, 7, 905.	3.6	17
220	Hormone regulation of rhizome development in tall fescue (<i>Festuca arundinacea</i>) associated with proteomic changes controlling respiratory and amino acid metabolism. Annals of Botany, 2016, 118, 481-494.	2.9	17
221	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
222	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
223	Natural variation of physiological traits, molecular markers, and chlorophyll catabolic genes associated with heat tolerance in perennial ryegrass accessions. BMC Plant Biology, 2020, 20, 520.	3.6	17
224	Mowing Height Effects on Summer Turf Growth and Physiological Activities for Two Creeping Bentgrass Cultivars. Hortscience: A Publication of the American Society for Hortcultural Science, 2003, 38, 444-448.	1.0	17
225	Physiological Effects of Aquaporin in Regulating Drought Tolerance through Overexpressing of Festuca arundinacea Aquaporin Gene FaPIP2;1. Journal of the American Society for Horticultural Science, 2015, 140, 404-412.	1.0	17
226	Summer Root Decline. Crop Science, 2003, 43, 258.	1.8	17
227	Turfgrass Evapotranspiration. The Journal of Crop Improvement: Innovations in Practiceory and Research, 2000, 2, 317-333.	0.4	16
228	Protein phosphorylation associated with drought priming-enhanced heat tolerance in a temperate grass species. Horticulture Research, 2020, 7, 207.	6.3	16
229	Differential Responses of Nutrients to Heat Stress in Warm-season and Cool-season Turfgrasses. Hortscience: A Publication of the American Society for Hortcultural Science, 2009, 44, 2009-2014.	1.0	16
230	Cloning and Characterization of a Gene, <i>AsEXP1</i>, Encoding Expansin Proteins Inducible by Heat Stress and Hormones in Creeping Bentgrass. Crop Science, 2011, 51, 333-341.	1.8	15
231	Quantitative Trait Loci Associated with Drought Tolerance in Creeping Bentgrass. Crop Science, 2014, 54, 2314-2324.	1.8	15
232	Transcriptomic analysis reveals unique molecular factors for lipid hydrolysis, secondary cell-walls and oxidative protection associated with thermotolerance in perennial grass. BMC Genomics, 2018, 19, 70.	2.8	15
233	Proteomic Responses during Cold Acclimation in Association with Freezing Tolerance of Velvet Bentgrass. Journal of the American Society for Horticultural Science, 2012, 137, 391-399.	1.0	15
234	RECENT ADVANCES IN DROUGHT AND HEAT STRESS PHYSIOLOGY OF TURFGRASS - A REVIEW. Acta Horticulturae, 2004, , 185-192.	0.2	14

#	Article	IF	Citations
235	Carbon Allocation Patterns into Proteins and Lipids Associated with Superior Tolerance of Perennial Grass to High Soil Temperature. Crop Science, 2015, 55, 2262-2269.	1.8	14
236	Characterization and transcriptional regulation of chlorophyll b reductase gene NON-YELLOW COLORING 1 associated with leaf senescence in perennial ryegrass (Lolium perenne L.). Environmental and Experimental Botany, 2018, 149, 43-50.	4.2	14
237	Antioxidant Metabolism Associated with Summer Leaf Senescence and Turf Quality Decline for Creeping Bentgrass. Crop Science, 2004, 44, 553.	1.8	14
238	The NAC factor LpNAL delays leaf senescence by repressing two chlorophyll catabolic genes in perennial ryegrass. Plant Physiology, 2022, 189, 595-610.	4.8	14
239	Growth and Physiological Recovery of Kentucky Bluegrass from Drought Stress as Affected by a Synthetic Cytokinin 6â€Benzylaminopurine. Crop Science, 2012, 52, 2332-2340.	1.8	13
240	Classification of Genetic Variation for Drought Tolerance in Tall Fescue using Physiological Traits and Molecular Markers. Crop Science, 2013, 53, 647-654.	1.8	13
241	Transcriptional factors for stress signaling, oxidative protection, and protein modification in ipt-transgenic creeping bentgrass exposed to drought stress. Environmental and Experimental Botany, 2017, 144, 49-60.	4.2	13
242	Overexpression of an aquaporin gene <i>PvPIP2;9</i> improved biomass yield, protein content, drought tolerance and water use efficiency in switchgrass (<i>Panicum virgatum</i> L.). GCB Bioenergy, 2020, 12, 979-991.	5.6	13
243	Osmoregulants Involved in Osmotic Adjustment for Differential Drought Tolerance in Different Bentgrass Genotypes. Journal of the American Society for Horticultural Science, 2015, 140, 605-613.	1.0	13
244	Differential protein expression for geothermal Agrostis scabra and turf-type Agrostis stolonifera differing in heat tolerance. Environmental and Experimental Botany, 2008, 64, 58-64.	4.2	12
245	Differential Physiological Responses and Genetic Variations in Fine Fescue Species for Heat and Drought Stress. Journal of the American Society for Horticultural Science, 2017, 142, 367-375.	1.0	12
246	Glutamate acts as a repressor for heat-induced leaf senescence involving chlorophyll degradation and amino acid metabolism in creeping bentgrass. Grass Research, 2021, 1, 1-10.	1.7	12
247	Root Antioxidant Mechanisms in Relation to Root Thermotolerance in Perennial Grass Species Contrasting in Heat Tolerance. PLoS ONE, 2015, 10, e0138268.	2.5	12
248	Seasonal Changes in Root Metabolic Activity and Nitrogen Uptake for Two Cultivars of Creeping Bentgrass. Hortscience: A Publication of the American Society for Hortcultural Science, 2006, 41, 822-826.	1.0	12
249	Effects of Sequential Application of Plant Growth Regulators and Osmoregulants on Drought Tolerance of Creeping Bentgrass (<i>Agrostis stolonifera</i>). Crop Science, 2014, 54, 837-844.	1.8	11
250	Stimulation of Growth and Alteration of Hormones by Elevated Carbon Dioxide for Creeping Bentgrass Exposed to Drought. Crop Science, 2019, 59, 1672-1680.	1.8	11
251	Choline-Mediated Lipid Reprogramming as a Dominant Salt Tolerance Mechanism in Grass Species Lacking Glycine Betaine. Plant and Cell Physiology, 2021, 61, 2018-2030.	3.1	11
252	Salinity Tolerance of Kentucky Bluegrass Cultivars and Selections Using an Overhead Irrigated Screening Technique. Crop Science, 2011, 51, 2846-2857.	1.8	10

#	ARTICLE	IF	CITATIONS
253	Comparative Analysis of Proteomic Responses to Single and Simultaneous Drought and Heat Stress for Two Kentucky Bluegrass Cultivars. Crop Science, 2012, 52, 1246-1260.	1.8	10
254	Growth and Physiological Traits of Canopy and Root Systems Associated with Drought Resistance in Tall Fescue. Crop Science, 2013, 53, 575-584.	1.8	10
255	Mechanisms of Hormone Regulation for Drought Tolerance in Plants. , 2016, , 45-75.		10
256	Association of SSR and Candidate Gene Markers with Genetic Variations in Summer Heat and Drought Performance for Creeping Bentgrass. Crop Science, 2018, 58, 2644-2656.	1.8	10
257	Knock down of <i>NON-YELLOW COLOURING 1-like</i> gene or chlorophyllin application enhanced chlorophyll accumulation with antioxidant roles in suppressing heat-induced leaf senescence in perennial ryegrass. Journal of Experimental Botany, 2022, 73, 429-444.	4.8	10
258	Physiological and Biochemical Indicators for Stress Tolerance. , 2006, , 321-355.		9
259	Photoperiod and Temperature Effects on Rhizome Production and Tillering Rate in Tall Fescue [<i>Lolium arundinaceum</i> (Schreb.) Darby.]. Crop Science, 2014, 54, 1205-1210.	1.8	9
260	Membrane Proteins Associated with Heatâ€•Induced Leaf Senescence in a Coolâ€Season Grass Species. Crop Science, 2015, 55, 837-850.	1.8	9
261	CCCH protein-PvCCCH69 acted as a repressor for leaf senescence through suppressing ABA-signaling pathway. Horticulture Research, 2021, 8, 165.	6.3	9
262	Leaf Protein Abundance Associated with Improved Drought Tolerance by Elevated Carbon Dioxide in Creeping Bentgrass. Journal of the American Society for Horticultural Science, 2016, 141, 85-96.	1.0	9
263	Butanediol-enhanced heat tolerance in Agrostis stolonifera in association with alteration in stress-related gene expression and metabolic profiles. Environmental and Experimental Botany, 2018, 153, 209-217.	4.2	8
264	Proteomic Profiling for Metabolic Pathways Involved in Interactive Effects of Elevated Carbon Dioxide and Nitrogen on Leaf Growth in a Perennial Grass Species. Journal of Proteome Research, 2019, 18, 2446-2457.	3.7	8
265	Photosynthetic Responses of Creeping Bentgrass to Reduced Root-zone Temperatures at Supraoptimal Air Temperature. Journal of the American Society for Horticultural Science, 2002, 127, 754-758.	1.0	8
266	Differential regulatory pathways associated with drought-inhibition and post-drought recuperation of rhizome development in perennial grass. Annals of Botany, 2020, 126, 481-497.	2.9	8
267	Quantitative Trait Loci Associated with Physiological Traits for Heat Tolerance in Creeping Bentgrass. Crop Science, 2016, 56, 1314-1329.	1.8	7
268	Switchgrass PvDREB1C plays opposite roles in plant cold and salt tolerance in transgenic tobacco. Hereditas, 2018, 155, 15.	1.4	7
269	Growth and Physiological Response of Creeping Bentgrass To Elevated Night Temperature. Hortscience: A Publication of the American Society for Hortcultural Science, 2003, 38, 299-301.	1.0	7
270	Seasonal Changes in Carbohydrate Accumulation for Two Creeping Bentgrass Cultivars. Crop Science, 2003, 43, 266.	1.8	7

#	Article	IF	Citations
271	Impacts of agricultural land management on soil quality after 24 years: a case study in Zhangjiagang County, China. New Zealand Journal of Agricultural Research, 2011, 54, 261-273.	1.6	6
272	Metabolomic changes associated with elevated CO2-regulation of salt tolerance in Kentucky bluegrass. Environmental and Experimental Botany, 2019, 165, 129-138.	4.2	6
273	Effects of elevated carbon dioxide on drought tolerance and postâ€drought recovery involving rhizome growth in Kentucky bluegrass. Crop Science, 2020, 61, 3219.	1.8	6
274	Drought priming-induced heat tolerance: Metabolic pathways and molecular mechanisms. , 2020, , 149-160.		6
275	Cellular Membranes in Stress Sensing and Regulation of Plant Adaptation to Abiotic Stresses. , 2006, , 1-25.		6
276	Tufted Hairgrass Responses to Heat and Drought Stress. Journal of the American Society for Horticultural Science, 2007, 132, 289-293.	1.0	6
277	Endogenous Cytokinin Levels and Growth Responses to Extended Photoperiods for Creeping Bentgrass under Heat Stress. Crop Science, 2004, 44, 209.	1.8	6
278	Effects of Trinexapacâ€Ethyl and Daconil Action (Acibenzolarâ€S â€Methyl and Chlorothalonil) on Heat and Drought Tolerance of Creeping Bentgrass. Crop Science, 2017, 57, S-138.	1.8	5
279	Growth and Physiological Factors Involved in Interspecific Variations in Drought Tolerance and Postdrought Recovery in Warm- and Cool-season Turfgrass Species. Journal of the American Society for Horticultural Science, 2015, 140, 459-465.	1.0	5
280	Differential Regulation of Amino Acids and Nitrogen for Drought Tolerance and Poststress Recovery in Creeping Bentgrass. Journal of the American Society for Horticultural Science, 2022, 147, 208-215.	1.0	4
281	Chromosomal regions associated with dollar spot resistance in colonial bentgrass. Plant Breeding, 2012, 131, 193-197.	1.9	3
282	Phosphatidic acid and hydrogen peroxide coordinately enhance heat tolerance in tall fescue. Plant Biology, 2021, 23, 142-151.	3.8	3
283	Responses to elevated carbon dioxide for postdrought recovery of turfgrass species differing in growth characteristics. Crop Science, 2021, 61, 4436-4446.	1.8	3
284	<i><scp>LpNOL</scp>â€</i>knockdown suppression of heatâ€induced leaf senescence in perennial ryegrass involving regulation of amino acid and organic acid metabolism. Physiologia Plantarum, 2021, 173, 1979-1991.	5.2	3
285	Differential Effectiveness of Doubling Ambient Atmospheric CO2 Concentration Mitigating Adverse Effects of Drought, Heat, and Combined Stress in Kentucky Bluegrass. Journal of the American Society for Horticultural Science, 2014, 139, 364-373.	1.0	3
286	Turfgrass Drought Physiology and Irrigation Management. Books in Soils, Plants, and the Environment, 2007, , 431-445.	0.1	3
287	Carotene-enhanced Heat Tolerance in Creeping Bentgrass in Association with Regulation of Enzymatic Antioxidant Metabolism. Journal of the American Society for Horticultural Science, 2022, 147, 145-151.	1.0	3
288	Heat-Stress Physiology and Management. , 0, , 249-278.		2

#	Article	IF	Citations
289	Exogenous Ascorbic Acid Mediated Abiotic Stress Tolerance in Plants. , 2017, , 233-253.		2
290	Antioxidant regulation of iron as a repressor for salt-induced leaf senescence in perennial grass species. Plant Growth Regulation, 2021, 94, 287-301.	3.4	2
291	Differential Effects of Lower Day and Night Soil Temperatures on Shoot and Root Growth of Creeping Bentgrass. Hortscience: A Publication of the American Society for Hortcultural Science, 2003, 38, 449-454.	1.0	2
292	Comparative transcriptomics and gene network analysis revealed secondary metabolism as preeminent metabolic pathways for heat tolerance in hard fescue. Grass Research, 2021, 1, 1-10.	1.7	1
293	Evaluation of Temporal, Spatial, and Cultivar Variation in Root Production and Mortality of Creeping Bentgrass using Minirhizotrons. ASA Special Publication, 0, , 29-42.	0.8	0
294	Priming effects of phytometabolites and hormones on rooting characteristics in tall fescue exposed to water stress. Crop Science, 2020, 60, 2732-2743.	1.8	0