Bingru Huang

List of Publications by Citations

292 papers	14,459 citations	56 h-index	108 g-index
294 ext. papers	16,581 ext. citations	3.7 avg, IF	6.93 L-index

#	Paper	IF	Citations
292	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, 6025-30	11.5	2618
291	Mechanism of salinity tolerance in plants: physiological, biochemical, and molecular characterization. *International Journal of Genomics*, **2014**, 2014, 701596	2.5	860
290	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	5.9	393
289	Thermotolerance and antioxidant systems in Agrostis stolonifera: involvement of salicylic acid, abscisic acid, calcium, hydrogen peroxide, and ethylene. *Journal of Plant Physiology*, **2004**, 161, 405-13	3.6	319
288	Nitric oxide is involved in abscisic acid-induced antioxidant activities in Stylosanthes guianensis. *Journal of Experimental Botany*, **2005**, 56, 3223-8	7	298
287	Heat Stress Injury in Relation to Membrane Lipid Peroxidation in Creeping Bentgrass. *Crop Science*, **2000**, 40, 503-510	2.4	292
286	Drought and Heat Stress Injury to Two Cool-Season Turfgrasses in Relation to Antioxidant Metabolism and Lipid Peroxidation. *Crop Science*, **2001**, 41, 436-442	2.4	278
285	Effects of calcium on antioxidant activities and water relations associated with heat tolerance in two cool-season grasses. *Journal of Experimental Botany*, **2001**, 52, 341-349	7	211
284	Effects of Salicylic Acid on Heat Tolerance Associated with Antioxidant Metabolism in Kentucky Bluegrass. *Crop Science*, **2005**, 45, 988-995	2.4	149
283	Growth, physiological and anatomical responses of two wheat genotypes to waterlogging and nutrient supply. *Journal of Experimental Botany*, **1994**, 45, 193-202	7	139
282	Regulation of plant water loss by manipulating the expression of phospholipase Dalpha. *Plant Journal*, **2001**, 28, 135-44	6.9	131
281	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	5.9	125
280	Elevated cytokinin content in ipt transgenic creeping bentgrass promotes drought tolerance through regulating metabolite accumulation. *Journal of Experimental Botany*, **2012**, 63, 1315-28	7	123
279	Drought-Resistance Mechanisms of Seven Warm-Season Turfgrasses under Surface Soil Drying: II. Root Aspects. *Crop Science*, **1997**, 37, 1863-1869	2.4	120
278	Identification and characterization of proteins associated with plant tolerance to heat stress. *Journal of Integrative Plant Biology*, **2008**, 50, 1230-7	8.3	115
277	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	5.9	115
276	Physiological Recovery of Kentucky Bluegrass from Simultaneous Drought and Heat Stress. *Crop Science*, **2004**, 44, 1729-1736	2.4	114

275	Research Advances in Mechanisms of Turfgrass Tolerance to Abiotic Stresses: From Physiology to Molecular Biology. *Critical Reviews in Plant Sciences*, **2014**, 33, 141-189	5.6	113
274	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, 5311-33	7	108
273	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	2.3	108
272	Metabolic pathways regulated by abscisic acid, salicylic acid and -aminobutyric acid in association with improved drought tolerance in creeping bentgrass (Agrostis stolonifera). *Physiologia Plantarum*, **2017**, 159, 42-58	4.6	104
271	Diffusion limitations and metabolic factors associated with inhibition and recovery of photosynthesis from drought stress in a C perennial grass species. *Physiologia Plantarum*, **2010**, 139, 93-106	4.6	104
270	Root proteomic responses to heat stress in two Agrostis grass species contrasting in heat tolerance. *Journal of Experimental Botany*, **2008**, 59, 4183-94	7	102
269	Root carbon and protein metabolism associated with heat tolerance. *Journal of Experimental Botany*, **2012**, 63, 3455-65	7	99
268	Growth and Physiological Responses of Creeping Bentgrass to Changes in Air and Soil Temperatures. *Crop Science*, **2000**, 40, 1363-1368	2.4	95
267	Effects of Abscisic Acid, Salicylic Acid, Ethylene and Hydrogen Peroxide in Thermotolerance and Recovery for Creeping Bentgrass. *Plant Growth Regulation*, **2005**, 47, 17-28	3.2	94
266	Root Physiological Characteristics Associated with Drought Resistance in Tall Fescue Cultivars. *Crop Science*, **2000**, 40, 196-203	2.4	94
265	Metabolic pathways regulated by -aminobutyric acid (GABA) contributing to heat tolerance in creeping bentgrass (Agrostis stolonifera). *Scientific Reports*, **2016**, 6, 30338	4.9	92
264	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, 383-95	7	90
263	Root Anatomical, Physiological, and Morphological Responses to Drought Stress for Tall Fescue Cultivars. *Crop Science*, **1998**, 38, 1017-1022	2.4	90
262	Effects of Differential Air and Soil Temperature on Carbohydrate Metabolism in Creeping Bentgrass. *Crop Science*, **2000**, 40, 1368-1374	2.4	87
261	Protein Alterations in Tall Fescue in Response to Drought Stress and Abscisic Acid. *Crop Science*, **2002**, 42, 202-207	2.4	85
260	Differential metabolic responses of perennial grass Cynodon transvaalensis Cynodon dactylon (C) and Poa Pratensis (C) to heat stress. *Physiologia Plantarum*, **2011**, 141, 251-64	4.6	81
259	Root and Shoot Growth of Wheat Genotypes in Response to Hypoxia and Subsequent Resumption of Aeration. *Crop Science*, **1994**, 34, 1538-1544	2.4	81
258	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, 103-9	3.6	80

257	Enhancing cytokinin synthesis by overexpressing ipt alleviated drought inhibition of root growth through activating ROS-scavenging systems in Agrostis stolonifera. *Journal of Experimental Botany*, **2016**, 67, 1979-92	7	77
256	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, 1161-71	7.8	77
255	Effects of Drought or Heat Stress Alone and in Combination on Kentucky Bluegrass. *Crop Science*, **2000**, 40, 1358-1362	2.4	73
254	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	5.1	72
253	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	2.4	72
252	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, 3273-89	7	70
251	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	5.9	69
250	Heat shock proteins in association with heat tolerance in grasses. *International Journal of Proteomics*, **2011**, 2011, 529648		69
249	Root Respiration and Carbohydrate Status of Two Wheat Genotypes in Response to Hypoxia. *Annals of Botany*, **1995**, 75, 427-432	4.1	68
248	Overexpression of barley hva1 gene in creeping bentgrass for improving drought tolerance. *Plant Cell Reports*, **2007**, 26, 467-77	5.1	66
247	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	2.3	65
246	Root respiratory characteristics associated with plant adaptation to high soil temperature for geothermal and turf-type Agrostis species. *Journal of Experimental Botany*, **2006**, 57, 623-31	7	64
245	Photosynthesis, respiration, and carbon allocation of two cool-season perennial grasses in response to surface soil drying. *Plant and Soil*, **2000**, 227, 17-26	4.2	64
244	Osmotic Adjustment and Root Growth Associated with Drought Preconditioning-Enhanced Heat Tolerance in Kentucky Bluegrass. *Crop Science*, **2001**, 41, 1168-1173	2.4	63
243	Water relations and root activities of Buchloe dactyloides and Zoysia japonica in response to localized soil drying. *Plant and Soil*, **1999**, 208, 179-186	4.2	63
242	Identification of proteins associated with water-deficit tolerance in C4 perennial grass species, Cynodon dactylon□Cynodon transvaalensis and Cynodon dactylon. *Physiologia Plantarum*, **2011**, 141, 40-55	4.6	62
241	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	2.4	60
240	Shoot Physiological Responses of Two Bentgrass Cultivars to High Temperature and Poor Soil Aeration. *Crop Science*, **1998**, 38, 1219-1224	2.4	60

239	Effects of High Temperature and Poor Soil Aeration on Root Growth and Viability of Creeping Bentgrass. *Crop Science*, **1998**, 38, 1618-1622	2.4	58
238	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	2.3	57
237	Identification and characterization of an expansin gene AsEXP1 associated with heat tolerance in C3 Agrostis grass species. *Journal of Experimental Botany*, **2007**, 58, 3789-96	7	56
236	Cytokinin Effects on Creeping Bentgrass Response to Heat Stress: II. Leaf Senescence and Antioxidant Metabolism. *Crop Science*, **2002**, 42, 466-472	2.4	56
235	Osmotic Adjustment Associated with Variation in Bentgrass Tolerance to Drought Stress. *Journal of the American Society for Horticultural Science*, **2006**, 131, 338-344	2.3	54
234	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	2.3	54
233	Drought-Resistance Mechanisms of Seven Warm-Season Turfgrasses under Surface Soil Drying: I. Shoot Response. *Crop Science*, **1997**, 37, 1858-1863	2.4	53
232	Effects of Abscisic Acid on Drought Responses of Kentucky Bluegrass. *Journal of the American Society for Horticultural Science*, **2003**, 128, 36-41	2.3	53
231	Chlorophyll loss associated with heat-induced senescence in bentgrass. *Plant Science*, **2016**, 249, 1-12	5.3	52
230	Evaluation of Drought Resistance for Texas Bluegrass, Kentucky Bluegrass, and Their Hybrids. *Crop Science*, **2004**, 44, 1746-1753	2.4	52
229	Growth and Carbohydrate Metabolism of Creeping Bentgrass Cultivars in Response to Increasing Temperatures. *Crop Science*, **2000**, 40, 1115-1120	2.4	52
228	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 (L.). *Frontiers in Plant Science*, **2016**, 7, 1500	6.2	52
227	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	3.2	51
226	Root physiological factors involved in cool-season grass response to high soil temperature. *Environmental and Experimental Botany*, **2005**, 53, 233-245	5.9	51
225	Minimum Water Requirements for Creeping, Colonial, and Velvet Bentgrasses under Fairway Conditions. *Crop Science*, **2006**, 46, 81-89	2.4	50
224	Transgenic tobacco plants overexpressing a grass PpEXP1 gene exhibit enhanced tolerance to heat stress. *PLoS ONE*, **2014**, 9, e100792	3.7	50
223	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	2.3	50
222	Root Characteristics and Hormone Activity of Wheat in Response to Hypoxia and Ethylene. *Crop Science*, **1997**, 37, 812-818	2.4	48

221	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	2.3	48
220	Assimilation and allocation of carbon and nitrogen of thermal and nonthermal Agrostis species in response to high soil temperature. *New Phytologist*, **2006**, 170, 479-90	9.8	47
219	Hydraulic Conductivity and Anatomy for Lateral Roots ofAgave desertiDuring Root Growth and Drought-induced Abscission. *Journal of Experimental Botany*, **1992**, 43, 1441-1449	7	47
218	Protein Alterations in Tall Fescue in Response to Drought Stress and Abscisic Acid. *Crop Science*, **2002**, 42, 202	2.4	47
217	Cytokinin Effects on Creeping Bentgrass Responses to Heat Stress: I. Shoot and Root Growth. *Crop Science*, **2002**, 42, 457-465	2.4	46
216	Morphological and Physiological Characteristics Associated with Heat Tolerance in Creeping Bentgrass. *Crop Science*, **2001**, 41, 127-133	2.4	45
215	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	2.3	45
214	Functional characterization of salicylate hydroxylase from the fungal endophyte Epichlo□festucae. *Scientific Reports*, **2015**, 5, 10939	4.9	44
213	Supraoptimal Soil Temperatures Induced Oxidative Stress in Leaves of Creeping Bentgrass Cultivars Differing in Heat Tolerance. *Crop Science*, **2001**, 41, 430-435	2.4	44
212	Lipidomic reprogramming associated with drought stress priming-enhanced heat tolerance in tall fescue (Festuca arundinacea). *Plant, Cell and Environment*, **2019**, 42, 947-958	8.4	43
211	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	5.9	43
210	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	4.6	43
209	Minimum Water Requirements of Four Turfgrasses in the Transition Zone. *Hortscience: A Publication of the American Society for Hortcultural Science*, **2004**, 39, 1740-1744	2.4	43
208	Differential proteomic responses to water stress induced by PEG in two creeping bentgrass cultivars differing in stress tolerance. *Journal of Plant Physiology*, **2010**, 167, 1477-85	3.6	42
207	Physiological Responses of Diverse Tall Fescue Cultivars to Drought Stress. *Hortscience: A Publication of the American Society for Hortcultural Science*, **1999**, 34, 897-901	2.4	42
206	Effects of Foliar-Applied Ethylene Inhibitor and Synthetic Cytokinin on Creeping Bentgrass to Enhance Heat Tolerance. *Crop Science*, **2009**, 49, 1876-1884	2.4	42
205	Differential proteomic response to heat stress in thermal Agrostis scabra and heat-sensitive Agrostis stolonifera. *Physiologia Plantarum*, **2010**, 139, 192-204	4.6	41
204	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	3.7	41

203	Effects of Trinexapac-Ethyl Foliar Application on Creeping Bentgrass Responses to Combined Drought and Heat Stress. *Crop Science*, **2007**, 47, 2121-2128	2.4	40
202	Agrobacterium-mediated transformation of creeping bentgrass using GFP as a reporter gene. *Hereditas*, **2000**, 133, 229-33	2.4	40
201	Hydraulic conductivity and anatomy along lateral roots of cacti: changes with soil water status. *New Phytologist*, **1993**, 123, 499-507	9.8	40
200	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	2.3	40
199	Drought Stress Responses and Recovery of Texas Kentucky Hybrids and Kentucky Bluegrass Genotypes in Temperate Climate Conditions. *Agronomy Journal*, **2010**, 102, 258-268	2.2	39
198	Identification of heat stress-responsive genes in heat-adapted thermal Agrostis scabra by suppression subtractive hybridization. *Journal of Plant Physiology*, **2009**, 166, 588-601	3.6	39
197	Selection of reference genes for quantitative real-time PCR normalization in creeping bentgrass involved in four abiotic stresses. *Plant Cell Reports*, **2015**, 34, 1825-34	5.1	38
196	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	4.9	38
195	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	5.9	38
194	Cytokinin Effects on Creeping Bentgrass Response to Heat Stress: II. Leaf Senescence and Antioxidant Metabolism. *Crop Science*, **2002**, 42, 466	2.4	38
193	Cellular and Molecular Mechanisms for Elevated CO2 Regulation of Plant Growth and Stress Adaptation. *Crop Science*, **2015**, 55, 1405-1424	2.4	37
192	Functional characterization and hormonal regulation of the PHEOPHYTINASE gene LpPPH controlling leaf senescence in perennial ryegrass. *Journal of Experimental Botany*, **2016**, 67, 935-45	7	36
191	Identification of differentially expressed salt-responsive proteins in roots of two perennial grass species contrasting in salinity tolerance. *Journal of Plant Physiology*, **2012**, 169, 117-26	3.6	36
190	Effects of Cytokinin and Potassium on Stomatal and Photosynthetic Recovery of Kentucky Bluegrass from Drought Stress. *Crop Science*, **2013**, 53, 221-231	2.4	36
189	Protein Extraction for Two-Dimensional Gel Electrophoresis of Proteomic Profiling in Turfgrass. *Crop Science*, **2008**, 48, 1608-1614	2.4	36
188	Membrane Fatty Acid Composition and Saturation Levels Associated with Leaf Dehydration Tolerance and Post-Drought Rehydration in Kentucky Bluegrass. *Crop Science*, **2011**, 51, 273-281	2.4	35
187	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	6.2	34
186	Deficit Irrigation Effects on Water Use Characteristics of Bentgrass Species. *Crop Science*, **2006**, 46, 1779-1786	2.4	34

185	Mowing Effects on Root Production, Growth, and Mortality of Creeping Bentgrass. *Crop Science*, **2002**, 42, 1241-1250	2.4	34
184	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	2.3	34
183	Antioxidant Responses of Radiation-induced Dwarf Mutants of Bermudagrass to Drought Stress. *Journal of the American Society for Horticultural Science*, **2008**, 133, 360-366	2.3	34
182	Photosynthesis and protein metabolism associated with elevated CO2-mitigation of heat stress damages in tall fescue. *Environmental and Experimental Botany*, **2014**, 99, 75-85	5.9	33
181	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	5.9	33
180	Molecular regulation and physiological functions of a novel FaHsfA2c cloned from tall fescue conferring plant tolerance to heat stress. *Plant Biotechnology Journal*, **2017**, 15, 237-248	11.6	33
179	Effects of Foliar Application of Nutrients on Heat Tolerance of Creeping Bentgrass. *Journal of Plant Nutrition*, **2003**, 26, 81-96	2.3	33
178	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	2.3	33
177	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	7	33
176	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	4.8	32
175	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	5.9	31
174	Photosynthetic acclimation to high temperatures associated with heat tolerance in creeping bentgrass. *Journal of Plant Physiology*, **2008**, 165, 1947-53	3.6	31
173	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	5.9	31
172	Transcriptional regulation of heat shock proteins and ascorbate peroxidase by CtHsfA2b from African bermudagrass conferring heat tolerance in Arabidopsis. *Scientific Reports*, **2016**, 6, 28021	4.9	30
171	Alteration of Transcripts of Stress-Protective Genes and Transcriptional Factors by Aminobutyric Acid (GABA) Associated with Improved Heat and Drought Tolerance in Creeping Bentgrass (). *International Journal of Molecular Sciences*, **2018**, 19,	6.3	30
170	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	2.4	30
169	Photosynthetic Responses of Bermudagrass to Drought Stress Associated with Stomatal and Metabolic Limitations. *Crop Science*, **2009**, 49, 1902-1909	2.4	29
168	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	2.3	29

167	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	4.5	28
166	Heat-Induced Leaf Senescence Associated with Chlorophyll Metabolism in Bentgrass Lines Differing in Heat Tolerance. *Crop Science*, **2017**, 57, S-169	2.4	28
165	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	3.7	28
164	Selection and validation of reference genes for target gene analysis with quantitative RT-PCR in leaves and roots of bermudagrass under four different abiotic stresses. *Physiologia Plantarum*, **2015**, 155, 138-148	4.6	28
163	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	2.3	28
162	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	2.3	28
161	Antioxidant Metabolism Associated with Summer Leaf Senescence and Turf Quality Decline for Creeping Bentgrass. *Crop Science*, **2004**, 44, 553-560	2.4	27
160	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	2.3	27
159	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	2.3	27
158	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	2.3	27
157	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,	6.3	26
156	Physiological and metabolic effects of 5-aminolevulinic acid for mitigating salinity stress in creeping bentgrass. *PLoS ONE*, **2014**, 9, e116283	3.7	26
155	Nutrient accumulation and distribution of wheat genotypes in response to waterlogging and nutrient supply. *Plant and Soil*, **1995**, 173, 47-54	4.2	26
154	Protein Changes during Heat Stress in Three Kentucky Bluegrass Cultivars Differing in Heat Tolerance. *Crop Science*, **2007**, 47, 2513-2520	2.4	25
153	Physiological Adaptation of Kentucky Bluegrass to Localized Soil Drying. *Crop Science*, **2004**, 44, 1307-1314	2.4	25
152	Lowering Soil Temperatures Improves Creeping Bentgrass Growth under Heat Stress. *Crop Science*, **2001**, 41, 1878-1883	2.4	25
151	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	2.3	25
150	Cytokinin Effects on Creeping Bentgrass Responses to Heat Stress: I. Shoot and Root Growth. *Crop Science*, **2002**, 42, 457	2.4	25

149	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	2.3	24
148	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	2.3	24
147	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	3.7	23
146	Identification of Metabolites Associated with Superior Heat Tolerance in Thermal Bentgrass through Metabolic Profiling. *Crop Science*, **2013**, 53, 1626-1635	2.4	23
145	Comparative Analysis of Drought Responsive Proteins in Kentucky Bluegrass Cultivars Contrasting in Drought Tolerance. *Crop Science*, **2010**, 50, 2543-2552	2.4	23
144	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	2.3	23
143	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	2.3	23
142	Differential Heat-Induced Changes in Phenolic Acids Associated with Genotypic Variations in Heat Tolerance for Hard Fescue. *Crop Science*, **2019**, 59, 667-674	2.4	22
141	Abscisic acid mediation of drought priming-enhanced heat tolerance in tall fescue (Festuca arundinacea) and Arabidopsis. *Physiologia Plantarum*, **2019**, 167, 488-501	4.6	22
140	Strigolactones and interaction with auxin regulating root elongation in tall fescue under different temperature regimes. *Plant Science*, **2018**, 271, 34-39	5.3	22
139	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	5.9	22
138	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	2.4	22
137	Physiological Effects of Aminobutyric Acid Application on Improving Heat and Drought Tolerance in Creeping Bentgrass. *Journal of the American Society for Horticultural Science*, **2016**, 141, 76-84	2.3	22
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