

Bingru Huang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Metabolic and Physiological Regulation of Aspartic Acid-Mediated Enhancement of Heat Stress Tolerance in Perennial Ryegrass.. <i>Plants</i> , 2022 , 11,	4.5	4
291	Carotene-enhanced Heat Tolerance in Creeping Bentgrass in Association with Regulation of Enzymatic Antioxidant Metabolism. <i>Journal of the American Society for Horticultural Science</i> , 2022 , 147, 145-151	2.3	0
290	Comparative transcriptomics and gene network analysis revealed secondary metabolism as preeminent metabolic pathways for heat tolerance in hard fescue. <i>Grass Research</i> , 2021 , 1, 1-10		
289	Antioxidant regulation of iron as a repressor for salt-induced leaf senescence in perennial grass species. <i>Plant Growth Regulation</i> , 2021 , 94, 287-301	3.2	
288	NOL-mediated functional stay-green traits in perennial ryegrass (<i>Lolium perenne</i> L.) involving multifaceted molecular factors and metabolic pathways regulating leaf senescence. <i>Plant Journal</i> , 2021 , 106, 1219-1232	6.9	8
287	Addressing Research Bottlenecks to Crop Productivity. <i>Trends in Plant Science</i> , 2021 , 26, 607-630	13.1	20
286	Phosphatidic acid and hydrogen peroxide coordinately enhance heat tolerance in tall fescue. <i>Plant Biology</i> , 2021 , 23 Suppl 1, 142-151	3.7	0
285	Choline-Mediated Lipid Reprogramming as a Dominant Salt Tolerance Mechanism in Grass Species Lacking Glycine Betaine. <i>Plant and Cell Physiology</i> , 2021 , 61, 2018-2030	4.9	5
284	CCCH protein-PvCCCH69 acted as a repressor for leaf senescence through suppressing ABA-signaling pathway. <i>Horticulture Research</i> , 2021 , 8, 165	7.7	2
283	Knockdown of NON-YELLOW COLORING 1 (NYC1)-like gene or chlorophyllin application enhanced chlorophyll accumulation with antioxidant roles in suppressing heat-induced leaf senescence in perennial ryegrass. <i>Journal of Experimental Botany</i> , 2021 ,	7	2
282	LpNOL-knockdown suppression of heat-induced leaf senescence in perennial ryegrass involving regulation of amino acid and organic acid metabolism. <i>Physiologia Plantarum</i> , 2021 , 173, 1979-1991	4.6	0
281	Glutamate acts as a repressor for heat-induced leaf senescence involving chlorophyll degradation and amino acid metabolism in creeping bentgrass. <i>Grass Research</i> , 2021 , 1, 1-10		3
280	Improved heat tolerance in creeping bentgrass by L-aminobutyric acid, proline, and inorganic nitrogen associated with differential regulation of amino acid metabolism. <i>Plant Growth Regulation</i> , 2021 , 93, 231-242	3.2	4
279	Priming effects of phytometabolites and hormones on rooting characteristics in tall fescue exposed to water stress. <i>Crop Science</i> , 2020 , 60, 2732-2743	2.4	
278	Drought priming-induced heat tolerance: Metabolic pathways and molecular mechanisms 2020 , 149-160		2
277	Differential regulatory pathways associated with drought-inhibition and post-drought recuperation of rhizome development in perennial grass. <i>Annals of Botany</i> , 2020 , 126, 481-497	4.1	1
276	Suppression of heat-induced leaf senescence by L-aminobutyric acid, proline, and ammonium nitrate through regulation of chlorophyll degradation in creeping bentgrass. <i>Environmental and Experimental Botany</i> , 2020 , 177, 104116	5.9	11

275	Up-regulation of lipid metabolism and glycine betaine synthesis are associated with choline-induced salt tolerance in halophytic seashore paspalum. <i>Plant, Cell and Environment</i> , 2020 , 43, 159-173	8.4	14
274	Protective roles of salicylic acid in maintaining integrity and functions of photosynthetic photosystems for alfalfa (<i>Medicago sativa</i> L.) tolerance to aluminum toxicity. <i>Plant Physiology and Biochemistry</i> , 2020 , 155, 570-578	5.4	4
273	Overexpression of an aquaporin gene PvPIP2;9 improved biomass yield, protein content, drought tolerance and water use efficiency in switchgrass (<i>Panicum virgatum</i> L.). <i>GCB Bioenergy</i> , 2020 , 12, 979-991 ^{5,6}	5.6	4
272	Natural variation of physiological traits, molecular markers, and chlorophyll catabolic genes associated with heat tolerance in perennial ryegrass accessions. <i>BMC Plant Biology</i> , 2020 , 20, 520	5.3	4
271	Effects of elevated carbon dioxide on drought tolerance and post-drought recovery involving rhizome growth in Kentucky bluegrass. <i>Crop Science</i> , 2020 , 61, 3219	2.4	4
270	Protein phosphorylation associated with drought priming-enhanced heat tolerance in a temperate grass species. <i>Horticulture Research</i> , 2020 , 7, 207	7.7	3
269	Improved cold tolerance in switchgrass by a novel CCCH-type zinc finger transcription factor gene, associated with ICE1-CBF-COR regulon and ABA-responsive genes. <i>Biotechnology for Biofuels</i> , 2019 , 12, 224	7.8	12
268	Metabolomic changes associated with elevated CO ₂ -regulation of salt tolerance in Kentucky bluegrass. <i>Environmental and Experimental Botany</i> , 2019 , 165, 129-138	5.9	5
267	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. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	12
266	Gibberellic acid inhibition of tillering in tall fescue involving crosstalks with cytokinins and transcriptional regulation of genes controlling axillary bud outgrowth. <i>Plant Science</i> , 2019 , 287, 110168	5.3	15
265	Proteomic Profiling for Metabolic Pathways Involved in Interactive Effects of Elevated Carbon Dioxide and Nitrogen on Leaf Growth in a Perennial Grass Species. <i>Journal of Proteome Research</i> , 2019 , 18, 2446-2457	5.6	4
264	Differential Heat-Induced Changes in Phenolic Acids Associated with Genotypic Variations in Heat Tolerance for Hard Fescue. <i>Crop Science</i> , 2019 , 59, 667-674	2.4	22
263	Absciscic acid mediation of drought priming-enhanced heat tolerance in tall fescue (<i>Festuca arundinacea</i>) and Arabidopsis. <i>Physiologia Plantarum</i> , 2019 , 167, 488-501	4.6	22
262	Lipidomic reprogramming associated with drought stress priming-enhanced heat tolerance in tall fescue (<i>Festuca arundinacea</i>). <i>Plant, Cell and Environment</i> , 2019 , 42, 947-958	8.4	43
261	Transcriptional regulation of chlorophyll-catabolic genes associated with exogenous chemical effects and genotypic variations in heat-induced leaf senescence for perennial ryegrass. <i>Environmental and Experimental Botany</i> , 2019 , 167, 103858	5.9	9
260	Metabolic adjustment and gene expression for root sodium transport and calcium signaling contribute to salt tolerance in <i>Agrostis</i> grass species. <i>Plant and Soil</i> , 2019 , 443, 219-232	4.2	9
259	Stimulation of Growth and Alteration of Hormones by Elevated Carbon Dioxide for Creeping Bentgrass Exposed to Drought. <i>Crop Science</i> , 2019 , 59, 1672-1680	2.4	9
258	Knockdown of STAYGREEN in Perennial Ryegrass (<i>Lolium perenne</i> L.) Leads to Transcriptomic Alterations Related to Suppressed Leaf Senescence and Improved Forage Quality. <i>Plant and Cell Physiology</i> , 2019 , 60, 202-212	4.9	13

257	Differential Responses of Amino Acids and Soluble Proteins to Heat Stress Associated with Genetic Variations in Heat Tolerance for Hard Fescue. <i>Journal of the American Society for Horticultural Science</i> , 2018 , 143, 45-55	2.3	13
256	Characterization and transcriptional regulation of chlorophyll b reductase gene NON-YELLOW COLORING 1 associated with leaf senescence in perennial ryegrass (<i>Lolium perenne</i> L.). <i>Environmental and Experimental Botany</i> , 2018 , 149, 43-50	5.9	8
255	Strigolactones and interaction with auxin regulating root elongation in tall fescue under different temperature regimes. <i>Plant Science</i> , 2018 , 271, 34-39	5.3	22
254	Interactive effects of melatonin and cytokinin on alleviating drought-induced leaf senescence in creeping bentgrass (<i>Agrostis stolonifera</i>). <i>Environmental and Experimental Botany</i> , 2018 , 145, 1-11	5.9	69
253	Transcriptomic analysis reveals unique molecular factors for lipid hydrolysis, secondary cell-walls and oxidative protection associated with thermotolerance in perennial grass. <i>BMC Genomics</i> , 2018 , 19, 70	4.5	9
252	Candidate Genes and Molecular Markers Correlated to Physiological Traits for Heat Tolerance in Fine Fescue Cultivars. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	15
251	Alteration of Transcripts of Stress-Protective Genes and Transcriptional Factors by γ -Aminobutyric Acid (GABA) Associated with Improved Heat and Drought Tolerance in Creeping Bentgrass (). <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	30
250	The optimal CO ₂ concentrations for the growth of three perennial grass species. <i>BMC Plant Biology</i> , 2018 , 18, 27	5.3	15
249	Switchgrass PvDREB1C plays opposite roles in plant cold and salt tolerance in transgenic tobacco. <i>Hereditas</i> , 2018 , 155, 15	2.4	5
248	Butanediol-enhanced heat tolerance in <i>Agrostis stolonifera</i> in association with alteration in stress-related gene expression and metabolic profiles. <i>Environmental and Experimental Botany</i> , 2018 , 153, 209-217	5.9	5
247	Characterization of Dehydrin protein, CdDHN4-L and CdDHN4-S, and their differential protective roles against abiotic stress in vitro. <i>BMC Plant Biology</i> , 2018 , 18, 299	5.3	19
246	Association of SSR and Candidate Gene Markers with Genetic Variations in Summer Heat and Drought Performance for Creeping Bentgrass. <i>Crop Science</i> , 2018 , 58, 2644-2656	2.4	5
245	Comparative transcriptomic analysis reveals common molecular factors responsive to heat and drought stress in <i>Agrostis stolonifera</i> . <i>Scientific Reports</i> , 2018 , 8, 15181	4.9	15
244	Characterization and Functional Analysis of from Conferring Heat Tolerance in Arabidopsis. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	20
243	Enhanced stolon growth and metabolic adjustment in creeping bentgrass with elevated CO ₂ concentration. <i>Environmental and Experimental Botany</i> , 2018 , 155, 87-97	5.9	14
242	Lipid- and calcium-signaling regulation of HsfA2c-mediated heat tolerance in tall fescue. <i>Environmental and Experimental Botany</i> , 2017 , 136, 59-67	5.9	14
241	Differential Effects of Glycine Betaine and Spermidine on Osmotic Adjustment and Antioxidant Defense Contributing to Improved Drought Tolerance in Creeping Bentgrass. <i>Journal of the American Society for Horticultural Science</i> , 2017 , 142, 20-26	2.3	10
240	Melatonin suppression of heat-induced leaf senescence involves changes in abscisic acid and cytokinin biosynthesis and signaling pathways in perennial ryegrass (<i>Lolium perenne</i> L.). <i>Environmental and Experimental Botany</i> , 2017 , 138, 36-45	5.9	125

239	Transcriptional regulation of hormone-synthesis and signaling pathways by overexpressing cytokinin-synthesis contributes to improved drought tolerance in creeping bentgrass. <i>Physiologia Plantarum</i> , 2017 , 161, 235-256	4.6	17
238	Differential profiles of membrane proteins, fatty acids, and sterols associated with genetic variations in heat tolerance for a perennial grass species, hard fescue (<i>Festuca Trachyphylla</i>). <i>Environmental and Experimental Botany</i> , 2017 , 140, 65-75	5.9	17
237	Differential Physiological Responses and Genetic Variations in Fine Fescue Species for Heat and Drought Stress. <i>Journal of the American Society for Horticultural Science</i> , 2017 , 142, 367-375	2.3	8
236	Transcriptional factors for stress signaling, oxidative protection, and protein modification in ipt-transgenic creeping bentgrass exposed to drought stress. <i>Environmental and Experimental Botany</i> , 2017 , 144, 49-60	5.9	11
235	Heat-Induced Leaf Senescence Associated with Chlorophyll Metabolism in Bentgrass Lines Differing in Heat Tolerance. <i>Crop Science</i> , 2017 , 57, S-169	2.4	28
234	Up-Regulation of HSFA2c and HSPs by ABA Contributing to Improved Heat Tolerance in Tall Fescue and Arabidopsis. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	26
233	Drought inhibition of tillering in <i>Festuca arundinacea</i> associated with axillary bud development and strigolactone signaling. <i>Environmental and Experimental Botany</i> , 2017 , 142, 15-23	5.9	15
232	An efficient protocol for perennial ryegrass mesophyll protoplast isolation and transformation, and its application on interaction study between LpNOL and LpNYC1. <i>Plant Methods</i> , 2017 , 13, 46	5.8	17
231	Metabolic pathways regulated by abscisic acid, salicylic acid and γ -aminobutyric acid in association with improved drought tolerance in creeping bentgrass (<i>Agrostis stolonifera</i>). <i>Physiologia Plantarum</i> , 2017 , 159, 42-58	4.6	104
230	Molecular regulation and physiological functions of a novel FaHsfA2c cloned from tall fescue conferring plant tolerance to heat stress. <i>Plant Biotechnology Journal</i> , 2017 , 15, 237-248	11.6	33
229	Exogenous Ascorbic Acid Mediated Abiotic Stress Tolerance in Plants 2017 , 233-253		1
228	Metabolic Effects of Acibenzolar-Methyl for Improving Heat or Drought Stress in Creeping Bentgrass. <i>Frontiers in Plant Science</i> , 2017 , 8, 1224	6.2	17
227	Metabolic Pathways Involved in Carbon Dioxide Enhanced Heat Tolerance in Bermudagrass. <i>Frontiers in Plant Science</i> , 2017 , 8, 1506	6.2	17
226	Effects of Trinexapac-Ethyl and Daconil Action (Acibenzolar-S-Methyl and Chlorothalonil) on Heat and Drought Tolerance of Creeping Bentgrass. <i>Crop Science</i> , 2017 , 57, S-138	2.4	3
225	Transcriptional Responses of Creeping Bentgrass to 2,3-Butanediol, a Bacterial Volatile Compound (BVC) Analogue. <i>Molecules</i> , 2017 , 22,	4.8	11
224	Identification and Validation of Reference Genes for Seashore Paspalum Response to Abiotic Stresses. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	18
223	Candidate genes and molecular markers associated with heat tolerance in colonial Bentgrass. <i>PLoS ONE</i> , 2017 , 12, e0171183	3.7	17
222	Hormone regulation of rhizome development in tall fescue (<i>Festuca arundinacea</i>) associated with proteomic changes controlling respiratory and amino acid metabolism. <i>Annals of Botany</i> , 2016 , 118, 481-494	4.1	9

221	Transcriptional regulation of heat shock proteins and ascorbate peroxidase by CtHsfA2b from African bermudagrass conferring heat tolerance in Arabidopsis. <i>Scientific Reports</i> , 2016 , 6, 28021	4.9	30
220	Aluminium-induced reduction of plant growth in alfalfa (<i>Medicago sativa</i>) is mediated by interrupting auxin transport and accumulation in roots. <i>Scientific Reports</i> , 2016 , 6, 30079	4.9	38
219	Chlorophyll loss associated with heat-induced senescence in bentgrass. <i>Plant Science</i> , 2016 , 249, 1-12	5.3	52
218	Osmotic stress- and salt stress-inhibition and gibberellin-mitigation of leaf elongation associated with up-regulation of genes controlling cell expansion. <i>Environmental and Experimental Botany</i> , 2016 , 131, 101-109	5.9	19
217	Mechanisms of Hormone Regulation for Drought Tolerance in Plants 2016 , 45-75		7
216	Functional characterization and hormonal regulation of the PHEOPHYTINASE gene LpPPH controlling leaf senescence in perennial ryegrass. <i>Journal of Experimental Botany</i> , 2016 , 67, 935-45	7	36
215	Cytokinin-mitigation of salt-induced leaf senescence in perennial ryegrass involving the activation of antioxidant systems and ionic balance. <i>Environmental and Experimental Botany</i> , 2016 , 125, 1-11	5.9	38
214	Enhancing cytokinin synthesis by overexpressing ipt alleviated drought inhibition of root growth through activating ROS-scavenging systems in <i>Agrostis stolonifera</i> . <i>Journal of Experimental Botany</i> , 2016 , 67, 1979-92	7	77
213	Differentially Expressed Genes Associated with Improved Drought Tolerance in Creeping Bentgrass Overexpressing a Gene for Cytokinin Biosynthesis. <i>PLoS ONE</i> , 2016 , 11, e0166676	3.7	19
212	Physiological Effects of γ -Aminobutyric Acid Application on Improving Heat and Drought Tolerance in Creeping Bentgrass. <i>Journal of the American Society for Horticultural Science</i> , 2016 , 141, 76-84	2.3	22
211	Leaf Protein Abundance Associated with Improved Drought Tolerance by Elevated Carbon Dioxide in Creeping Bentgrass. <i>Journal of the American Society for Horticultural Science</i> , 2016 , 141, 85-96	2.3	7
210	Gene Expression Analysis of Alfalfa Seedlings Response to Acid-Aluminum. <i>International Journal of Genomics</i> , 2016 , 2016, 2095195	2.5	12
209	Functional Identification and Characterization of Genes Cloned from Halophyte Seashore Paspalum Conferring Salinity and Cadmium Tolerance. <i>Frontiers in Plant Science</i> , 2016 , 7, 102	6.2	21
208	Gibberellin-Stimulation of Rhizome Elongation and Differential GA-Responsive Proteomic Changes in Two Grass Species. <i>Frontiers in Plant Science</i> , 2016 , 7, 905	6.2	8
207	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 (<i>L.</i>). <i>Frontiers in Plant Science</i> , 2016 , 7, 1500	6.2	52
206	Quantitative Trait Loci Associated with Physiological Traits for Heat Tolerance in Creeping Bentgrass. <i>Crop Science</i> , 2016 , 56, 1314-1329	2.4	7
205	Gibberellin-Regulation and Genetic Variations in Leaf Elongation for Tall Fescue in Association with Differential Gene Expression Controlling Cell Expansion. <i>Scientific Reports</i> , 2016 , 6, 30258	4.9	17
204	Metabolic pathways regulated by γ -Aminobutyric acid (GABA) contributing to heat tolerance in creeping bentgrass (<i>Agrostis stolonifera</i>). <i>Scientific Reports</i> , 2016 , 6, 30338	4.9	92

203	Functional characterization of salicylate hydroxylase from the fungal endophyte Epichloa festucae. <i>Scientific Reports</i> , 2015 , 5, 10939	4.9	44
202	Selection of reference genes for quantitative real-time PCR normalization in creeping bentgrass involved in four abiotic stresses. <i>Plant Cell Reports</i> , 2015 , 34, 1825-34	5.1	38
201	Comprehensive analysis of CCCH-type zinc finger family genes facilitates functional gene discovery and reflects recent allopolyploidization event in tetraploid switchgrass. <i>BMC Genomics</i> , 2015 , 16, 129	4.5	28
200	Proteins associated with heat-induced leaf senescence in creeping bentgrass as affected by foliar application of nitrogen, cytokinins, and an ethylene inhibitor. <i>Proteomics</i> , 2015 , 15, 798-812	4.8	32
199	Cellular and Molecular Mechanisms for Elevated CO ₂ Regulation of Plant Growth and Stress Adaptation. <i>Crop Science</i> , 2015 , 55, 1405-1424	2.4	37
198	Membrane Proteins Associated with Heat-Induced Leaf Senescence in a Cool-Season Grass Species. <i>Crop Science</i> , 2015 , 55, 837-850	2.4	6
197	Evaluation of Temporal, Spatial, and Cultivar Variation in Root Production and Mortality of Creeping Bentgrass using Minirhizotrons. <i>ASA Special Publication</i> , 2015 , 29-42	1.1	
196	Carbon Allocation Patterns into Proteins and Lipids Associated with Superior Tolerance of Perennial Grass to High Soil Temperature. <i>Crop Science</i> , 2015 , 55, 2262-2269	2.4	12
195	Metabolite responses to exogenous application of nitrogen, cytokinin, and ethylene inhibitors in relation to heat-induced senescence in creeping bentgrass. <i>PLoS ONE</i> , 2015 , 10, e0123744	3.7	28
194	PpCBF3 from Cold-Tolerant Kentucky Bluegrass Involved in Freezing Tolerance Associated with Up-Regulation of Cold-Related Genes in Transgenic Arabidopsis thaliana. <i>PLoS ONE</i> , 2015 , 10, e0132928	3.7	15
193	Ascorbic acid mitigation of water stress-inhibition of root growth in association with oxidative defense in tall fescue (Festuca arundinacea Schreb.). <i>Frontiers in Plant Science</i> , 2015 , 6, 807	6.2	34
192	Heat-Stress Physiology and Management 2015 , 249-278		1
191	Physiological factors involved in positive effects of elevated carbon dioxide concentration on Bermudagrass tolerance to salinity stress. <i>Environmental and Experimental Botany</i> , 2015 , 115, 20-27	5.9	31
190	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. <i>Physiologia Plantarum</i> , 2015 , 155, 138-148	4.6	28
189	Identification and validation of reference genes for quantification of target gene expression with quantitative real-time PCR for tall fescue under four abiotic stresses. <i>PLoS ONE</i> , 2015 , 10, e0119569	3.7	41
188	Root Antioxidant Mechanisms in Relation to Root Thermotolerance in Perennial Grass Species Contrasting in Heat Tolerance. <i>PLoS ONE</i> , 2015 , 10, e0138268	3.7	7
187	Effects of Elevated CO ₂ Concentration on Water Relations and Photosynthetic Responses to Drought Stress and Recovery during Rewatering in Tall Fescue. <i>Journal of the American Society for Horticultural Science</i> , 2015 , 140, 19-26	2.3	16
186	Physiological Effects of Aquaporin in Regulating Drought Tolerance through Overexpressing of Festuca arundinacea Aquaporin Gene FaPIP2;1. <i>Journal of the American Society for Horticultural Science</i> , 2015 , 140, 404-412	2.3	15

185	Growth and Physiological Factors Involved in Interspecific Variations in Drought Tolerance and Postdrought Recovery in Warm- and Cool-season Turfgrass Species. <i>Journal of the American Society for Horticultural Science</i> , 2015 , 140, 459-465	2.3	3
184	Osmoregulators Involved in Osmotic Adjustment for Differential Drought Tolerance in Different Bentgrass Genotypes. <i>Journal of the American Society for Horticultural Science</i> , 2015 , 140, 605-613	2.3	8
183	Research Advances in Mechanisms of Turfgrass Tolerance to Abiotic Stresses: From Physiology to Molecular Biology. <i>Critical Reviews in Plant Sciences</i> , 2014 , 33, 141-189	5.6	113
182	Photosynthesis and protein metabolism associated with elevated CO ₂ -mitigation of heat stress damages in tall fescue. <i>Environmental and Experimental Botany</i> , 2014 , 99, 75-85	5.9	33
181	Root protein metabolism in association with improved root growth and drought tolerance by elevated carbon dioxide in creeping bentgrass. <i>Field Crops Research</i> , 2014 , 165, 80-91	5.5	14
180	Growth and physiological responses of creeping bentgrass (<i>Agrostis stolonifera</i>) to elevated carbon dioxide concentrations. <i>Horticulture Research</i> , 2014 , 1, 14021	7.7	14
179	Elevated CO ₂ -mitigation of high temperature stress associated with maintenance of positive carbon balance and carbohydrate accumulation in Kentucky bluegrass. <i>PLoS ONE</i> , 2014 , 9, e89725	3.7	23
178	Physiological and metabolic effects of 5-aminolevulinic acid for mitigating salinity stress in creeping bentgrass. <i>PLoS ONE</i> , 2014 , 9, e116283	3.7	26
177	Effects of Sequential Application of Plant Growth Regulators and Osmoregulators on Drought Tolerance of Creeping Bentgrass (<i>Agrostis stolonifera</i>). <i>Crop Science</i> , 2014 , 54, 837-844	2.4	7
176	Quantitative Trait Loci Associated with Drought Tolerance in Creeping Bentgrass. <i>Crop Science</i> , 2014 , 54, 2314-2324	2.4	11
175	Photoperiod and Temperature Effects on Rhizome Production and Tillering Rate in Tall Fescue [<i>Lolium arundinaceum</i> (Schreb.) Darby.]. <i>Crop Science</i> , 2014 , 54, 1205-1210	2.4	8
174	Mechanism of salinity tolerance in plants: physiological, biochemical, and molecular characterization. <i>International Journal of Genomics</i> , 2014 , 2014, 701596	2.5	860
173	Differential growth and physiological responses to heat stress between two annual and two perennial cool-season turfgrasses. <i>Scientia Horticulturae</i> , 2014 , 170, 75-81	4.1	14
172	Transgenic tobacco plants overexpressing a grass PpEXP1 gene exhibit enhanced tolerance to heat stress. <i>PLoS ONE</i> , 2014 , 9, e100792	3.7	50
171	Characterization of gene expression associated with drought avoidance and tolerance traits in a perennial grass species. <i>PLoS ONE</i> , 2014 , 9, e103611	3.7	15
170	Differential Effectiveness of Doubling Ambient Atmospheric CO ₂ Concentration Mitigating Adverse Effects of Drought, Heat, and Combined Stress in Kentucky Bluegrass. <i>Journal of the American Society for Horticultural Science</i> , 2014 , 139, 364-373	2.3	2
169	Photosynthetic enzyme activities and gene expression associated with drought tolerance and post-drought recovery in Kentucky bluegrass. <i>Environmental and Experimental Botany</i> , 2013 , 89, 28-35	5.9	43
168	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	5.9	33

167	Classification of Genetic Variation for Drought Tolerance in Tall Fescue using Physiological Traits and Molecular Markers. <i>Crop Science</i> , 2013 , 53, 647-654	2.4	10
166	Growth and Physiological Traits of Canopy and Root Systems Associated with Drought Resistance in Tall Fescue. <i>Crop Science</i> , 2013 , 53, 575-584	2.4	7
165	Identification of Metabolites Associated with Superior Heat Tolerance in Thermal Bentgrass through Metabolic Profiling. <i>Crop Science</i> , 2013 , 53, 1626-1635	2.4	23
164	Effects of Cytokinin and Potassium on Stomatal and Photosynthetic Recovery of Kentucky Bluegrass from Drought Stress. <i>Crop Science</i> , 2013 , 53, 221-231	2.4	36
163	Changes in Carbohydrate Metabolism in Two Kentucky Bluegrass Cultivars during Drought Stress and Recovery. <i>Journal of the American Society for Horticultural Science</i> , 2013 , 138, 24-30	2.3	12
162	Proteins and Metabolites Regulated by Trinexapac-ethyl in Relation to Drought Tolerance in Kentucky Bluegrass. <i>Journal of Plant Growth Regulation</i> , 2012 , 31, 25-37	4.7	15
161	Elevated cytokinin content in ipt transgenic creeping bentgrass promotes drought tolerance through regulating metabolite accumulation. <i>Journal of Experimental Botany</i> , 2012 , 63, 1315-28	7	123
160	Identification of differentially expressed salt-responsive proteins in roots of two perennial grass species contrasting in salinity tolerance. <i>Journal of Plant Physiology</i> , 2012 , 169, 117-26	3.6	36
159	Chromosomal regions associated with dollar spot resistance in colonial bentgrass. <i>Plant Breeding</i> , 2012 , 131, 193-197	2.4	1
158	Identification of Quantitative Trait Loci Linked to Drought Tolerance in a Colonial Creeping Bentgrass Hybrid Population. <i>Crop Science</i> , 2012 , 52, 1891-1901	2.4	16
157	Comparative Analysis of Proteomic Responses to Single and Simultaneous Drought and Heat Stress for Two Kentucky Bluegrass Cultivars. <i>Crop Science</i> , 2012 , 52, 1246-1260	2.4	8
156	Growth and Physiological Recovery of Kentucky Bluegrass from Drought Stress as Affected by a Synthetic Cytokinin 6-Benzylaminopurine. <i>Crop Science</i> , 2012 , 52, 2332-2340	2.4	10
155	Improved Heat Tolerance through Drought Preconditioning Associated with Changes in Lipid Composition, Antioxidant Enzymes, and Protein Expression in Kentucky Bluegrass. <i>Crop Science</i> , 2012 , 52, 807-817	2.4	12
154	Effects of Elevated CO ₂ on Physiological Responses of Tall Fescue to Elevated Temperature, Drought Stress, and the Combined Stresses. <i>Crop Science</i> , 2012 , 52, 1848-1858	2.4	60
153	Root carbon and protein metabolism associated with heat tolerance. <i>Journal of Experimental Botany</i> , 2012 , 63, 3455-65	7	99
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10	Responses to Root-Zone CO ₂ Enrichment and Hypoxia of Wheat Genotypes Differing in Waterlogging Tolerance. <i>Crop Science</i> , 1997 , 37, 464-468	2.4	21
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8	Suppression subtractive hybridization: a method for generating differentially regulated or tissue-specific cDNA probes and libraries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 6025-30	11.5	2618
7	Nutrient accumulation and distribution of wheat genotypes in response to waterlogging and nutrient supply. <i>Plant and Soil</i> , 1995 , 173, 47-54	4.2	26
6	Root Respiration and Carbohydrate Status of Two Wheat Genotypes in Response to Hypoxia. <i>Annals of Botany</i> , 1995 , 75, 427-432	4.1	68

5	Root and Shoot Growth of Wheat Genotypes in Response to Hypoxia and Subsequent Resumption of Aeration. <i>Crop Science</i> , 1994 , 34, 1538-1544	2.4	81
4	Growth, physiological and anatomical responses of two wheat genotypes to waterlogging and nutrient supply. <i>Journal of Experimental Botany</i> , 1994 , 45, 193-202	7	139
3	Hydraulic conductivity and anatomy along lateral roots of cacti: changes with soil water status. <i>New Phytologist</i> , 1993 , 123, 499-507	9.8	40
2	Hydraulic Conductivity and Anatomy for Lateral Roots of <i>Agave deserti</i> During Root Growth and Drought-induced Abscission. <i>Journal of Experimental Botany</i> , 1992 , 43, 1441-1449	7	47
1	Responses to elevated carbon dioxide for post-drought recovery of turfgrass species differing in growth characteristics. <i>Crop Science</i> ,	2.4	1