Xunzhong Zhang

List of Publications by Year
in descending order

41 papers	2,249 citations	257450 24 h-index	289244 40 g-index
41 all docs	41 docs citations	41 times ranked	2180 citing authors

#	Article	IF	Citations
1	Cytokininâ€Containing Seaweed and Humic Acid Extracts Associated with Creeping Bentgrass Leaf Cytokinins and Drought Resistance. Crop Science, 2004, 44, 1737-1745.	1.8	229
2	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
3	Impact of Seaweed Extractâ€Based Cytokinins and Zeatin Riboside on Creeping Bentgrass Heat Tolerance. Crop Science, 2008, 48, 364-370.	1.8	147
4	Hormoneâ€Containing Products' Impact on Antioxidant Status of Tall Fescue and Creeping Bentgrass Subjected to Drought. Crop Science, 2000, 40, 1344-1349.	1.8	145
5	Enhancing cytokinin synthesis by overexpressingiptalleviated drought inhibition of root growth through activating ROS-scavenging systems inAgrostis stolonifera. Journal of Experimental Botany, 2016, 67, 1979-1992.	4.8	137
6	Physiological Mechanism of Enhancing Salt Stress Tolerance of Perennial Ryegrass by 24-Epibrassinolide. Frontiers in Plant Science, 2017, 8, 1017.	3.6	114
7	Exogenous Glycine Betaine Ameliorates the Adverse Effect of Salt Stress on Perennial Ryegrass. Journal of the American Society for Horticultural Science, 2012, 137, 38-46.	1.0	107
8	Drought Tolerance Associated with Proline and Hormone Metabolism in Two Tall Fescue Cultivars. Hortscience: A Publication of the American Society for Hortcultural Science, 2011, 46, 1027-1032.	1.0	100
9	Plant Growth Regulators Can Enhance the Recovery of Kentucky Bluegrass Sod from Heat Injury. Crop Science, 2003, 43, 952-956.	1.8	97
10	Physiological Effects of Liquid Applications of a Seaweed Extract and a Humic Acid on Creeping Bentgrass. Journal of the American Society for Horticultural Science, 2003, 128, 492-496.	1.0	88
11	Assessment of drought tolerance of 49 switchgrass (Panicum virgatum) genotypes using physiological and morphological parameters. Biotechnology for Biofuels, 2015, 8, 152.	6.2	85
12	Enzymatic antioxidant responses to biostimulants in maize and soybean subjected to drought. Scientia Agricola, 2009, 66, 395-402.	1.2	73
13	Metabolic Defense Responses of Seeded Bermudagrass during Acclimation to Freezing Stress. Crop Science, 2006, 46, 2598-2605.	1.8	60
14	Impact of Biosolids on Hormone Metabolism in Droughtâ€Stressed Tall Fescue. Crop Science, 2009, 49, 1893-1901.	1.8	59
15	Effects of Cytokinin and Nitrogen on Drought Tolerance of Creeping Bentgrass. PLoS ONE, 2016, 11, e0154005.	2.5	59
16	Analysis of salt-induced physiological and proline changes in 46 switchgrass (Panicum virgatum) lines indicates multiple response modes. Plant Physiology and Biochemistry, 2016, 105, 203-212.	5.8	54
17	Optimizing Dosages of Seaweed Extractâ€Based Cytokinins and Zeatin Riboside for Improving Creeping Bentgrass Heat Tolerance. Crop Science, 2010, 50, 316-320.	1.8	43
18	Heat Shock Proteins in Relation to Heat Stress Tolerance of Creeping Bentgrass at Different N Levels. PLoS ONE, 2014, 9, e102914.	2.5	41

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19	Metabolic Changes During Cold Acclimation and Deacclimation in Five Bermudagrass Varieties. I. Proline, Total Amino Acid, Protein, and Dehydrin Expression. Crop Science, 2011, 51, 838-846.	1.8	40
20	Antioxidative responses in roots and shoots of creeping bentgrass under high temperature: Effects of nitrogen and cytokinin. Journal of Plant Physiology, 2012, 169, 492-500.	3.5	39
21	Ultraviolet-B Radiation Damage on Kentucky Bluegrass II: Hormone Supplement Effects. Hortscience: A Publication of the American Society for Hortcultural Science, 2004, 39, 1471-1474.	1.0	37
22	Application of Trinexapac-ethyl and Propiconazole Enhances Superoxide Dismutase and Photochemical Activity in Creeping Bentgrass (Agrostis stoloniferous var. palustris). Journal of the American Society for Horticultural Science, 2000, 125, 47-51.	1.0	36
23	The Role of Leaf Pigment and Antioxidant Levels in UV-B Resistance of Dark- and Light-green Kentucky Bluegrass Cultivars. Journal of the American Society for Horticultural Science, 2005, 130, 836-841.	1.0	27
24	Plant Growth Regulators Can Enhance the Recovery of Kentucky Bluegrass Sod from Heat Injury. Crop Science, 2003, 43, 952.	1.8	27
25	Influence of Sequential TrinexapacâEEthyl Applications on Cytokinin Content in Creeping Bentgrass, Kentucky Bluegrass, and Hybrid Bermudagrass. Crop Science, 2007, 47, 2145-2151.	1.8	26
26	Soil Carbon and Physiological Responses of Corn and Soybean to Organic Amendments. Compost Science and Utilization, 2010, 18, 162-173.	1.2	26
27	Differential Responses of Antioxidants, Abscisic Acid, and Auxin to Deficit Irrigation in Two Perennial Ryegrass Cultivars Contrasting in Drought Tolerance. Journal of the American Society for Horticultural Science, 2015, 140, 562-572.	1.0	26
28	Physiological Evaluation of Alkali-Salt Tolerance of Thirty Switchgrass (Panicum virgatum) Lines. PLoS ONE, 2015, 10, e0125305.	2.5	22
29	Metabolic Changes During Cold Acclimation and Deacclimation in Five Bermudagrass Varieties: II. Cytokinin and Abscisic Acid Metabolism. Crop Science, 2011, 51, 847-853.	1.8	16
30	EFFECTS OF NITRATE AND CYTOKININ ON CREEPING BENTGRASS UNDER SUPRAOPTIMAL TEMPERATURES. Journal of Plant Nutrition, 2013, 36, 1549-1564.	1.9	11
31	Applied Physiology of Natural and Synthetic Plant Growth Regulators on Turfgrasses. Books in Soils, Plants, and the Environment, 2007, , 171-200.	0.1	9
32	Corn and Soybean Hormone and Antioxidant Metabolism Responses to Biosolids under Two Cropping Systems. Crop Science, 2013, 53, 2079-2089.	1.8	8
33	An Integrated Nutritional and Chemical Approach to Poa Annua Suppression in Creeping Bentgrass Greens. Crop Science, 2017, 57, 567-572.	1.8	8
34	Drought-induced injury is associated with hormonal alteration in Kentucky bluegrass. Plant Signaling and Behavior, 2019, 14, e1651607.	2.4	7
35	Biochemical and physiological responses of Cannabis sativa to an integrated plant nutrition system. Agronomy Journal, 2020, 112, 5237-5248.	1.8	7
36	DROUGHT ASSESSMENT OF AUXIN-BOOSTED BIOSOLIDS. Proceedings of the Water Environment Federation, 2007, 2007, 150-165.	0.0	5

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37	Salt Stress-induced Injury is Associated with Hormonal Alteration in Kentucky Bluegrass. Hortscience: A Publication of the American Society for Hortcultural Science, 2018, 53, 97-101.	1.0	5
38	Hormone and Dehydrin Expression Responses to Cold Acclimation in Two Zoysiagrass Cultivars with Contrasting Freezing Tolerance. Itsrj, 2017, 13, 547.	0.3	4
39	An integrated plant nutrition system (IPNS) for corn in the Mid-Atlantic USA. Journal of Plant Nutrition, 2021, 44, 704-722.	1.9	4
40	Humic acids-based biostimulants impact on root viability and hormone metabolism in creeping bentgrass putting greens. Itsrj, 0, , .	0.3	4
41	Auxin and Trinexapacâ€Ethyl Impact on Root Viability and Hormone Metabolism in Creeping Bentgrass under Water Deficit. Crop Science, 2017, 57, S-130.	1.8	3