

Xiping Deng

List of Publications by Year in descending order

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67
papers

5,373
citations

126907

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102487

66
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all docs

67
docs citations

67
times ranked

5434
citing authors

#	ARTICLE	IF	CITATIONS
1	Producing more grain with lower environmental costs. <i>Nature</i> , 2014, 514, 486-489.	27.8	1,292
2	Pursuing sustainable productivity with millions of smallholder farmers. <i>Nature</i> , 2018, 555, 363-366.	27.8	747
3	Genotypic Variation in Growth and Physiological Response to Drought Stress and Re-Watering Reveals the Critical Role of Recovery in Drought Adaptation in Maize Seedlings. <i>Frontiers in Plant Science</i> , 2015, 6, 1241.	3.6	225
4	Aquaporin-mediated increase in root hydraulic conductance is involved in silicon-induced improved root water uptake under osmotic stress in <i>Sorghum bicolor</i> L.. <i>Journal of Experimental Botany</i> , 2014, 65, 4747-4756.	4.8	196
5	Enhanced root hydraulic conductance by aquaporin regulation accounts for silicon alleviated salt-induced osmotic stress in <i>Sorghum bicolor</i> L. <i>Environmental and Experimental Botany</i> , 2015, 111, 42-51.	4.2	188
6	Melatonin increased maize (<i>Zea mays</i> L.) seedling drought tolerance by alleviating drought-induced photosynthetic inhibition and oxidative damage. <i>Acta Physiologiae Plantarum</i> , 2016, 38, 1.	2.1	169
7	Melatonin Mitigates Salt Stress in Wheat Seedlings by Modulating Polyamine Metabolism. <i>Frontiers in Plant Science</i> , 2018, 9, 914.	3.6	151
8	Silicon-mediated changes in polyamine and 1-aminocyclopropane-1-carboxylic acid are involved in silicon-induced drought resistance in <i>Sorghum bicolor</i> L. <i>Plant Physiology and Biochemistry</i> , 2014, 80, 268-277.	5.8	114
9	Silicon enhanced salt tolerance by improving the root water uptake and decreasing the ion toxicity in cucumber. <i>Frontiers in Plant Science</i> , 2015, 6, 759.	3.6	111
10	Transgenic poplar expressing <i>Arabidopsis YUCCA6</i> exhibits auxin-overproduction phenotypes and increased tolerance to abiotic stress. <i>Plant Physiology and Biochemistry</i> , 2015, 94, 19-27.	5.8	110
11	Plant lipid remodeling in response to abiotic stresses. <i>Environmental and Experimental Botany</i> , 2019, 165, 174-184.	4.2	103
12	Carbon/Nitrogen Imbalance Associated with Drought-Induced Leaf Senescence in <i>Sorghum bicolor</i> . <i>PLoS ONE</i> , 2015, 10, e0137026.	2.5	98
13	How Does Silicon Mediate Plant Water Uptake and Loss Under Water Deficiency?. <i>Frontiers in Plant Science</i> , 2018, 9, 281.	3.6	97
14	Silicon moderated the K deficiency by improving the plant-water status in sorghum. <i>Scientific Reports</i> , 2016, 6, 22882.	3.3	91
15	Melatonin promotes plant growth by increasing nitrogen uptake and assimilation under nitrogen deficient condition in winter wheat. <i>Plant Physiology and Biochemistry</i> , 2019, 139, 342-349.	5.8	89
16	Nitrogen fertilization improved water-use efficiency of winter wheat through increasing water use during vegetative rather than grain filling. <i>Agricultural Water Management</i> , 2018, 197, 41-53.	5.6	87
17	Maintenance of Chloroplast Structure and Function by Overexpression of the Rice <i>MONOGALACTOSYLDIACYLGLYCEROL SYNTHASE</i> Gene Leads to Enhanced Salt Tolerance in Tobacco. <i>Plant Physiology</i> , 2014, 165, 1144-1155.	4.8	82
18	Meta-analysis of green manure effects on soil properties and crop yield in northern China. <i>Field Crops Research</i> , 2021, 266, 108146.	5.1	69

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19	Combined application of silicon and nitric oxide jointly alleviated cadmium accumulation and toxicity in maize. <i>Journal of Hazardous Materials</i> , 2020, 395, 122679.	12.4	66
20	Genome-wide identification and characterization of Glyceraldehyde-3-phosphate dehydrogenase genes family in wheat (<i>Triticum aestivum</i>). <i>BMC Genomics</i> , 2016, 17, 240.	2.8	64
21	Silicon-moderated K-deficiency-induced leaf chlorosis by decreasing putrescine accumulation in sorghum. <i>Annals of Botany</i> , 2016, 118, 305-315.	2.9	58
22	High level of reduced glutathione contributes to detoxification of lipid peroxide-derived reactive carbonyl species in transgenic <i>Arabidopsis</i> overexpressing glutathione reductase under aluminum stress. <i>Physiologia Plantarum</i> , 2017, 161, 211-223.	5.2	56
23	Suppression of the β -carotene hydroxylase gene increases β -carotene content and tolerance to abiotic stress in transgenic sweetpotato plants. <i>Plant Physiology and Biochemistry</i> , 2017, 117, 24-33.	5.8	56
24	Down-regulation of <i>GIGANTEA</i> -like genes increases plant growth and salt stress tolerance in poplar. <i>Plant Biotechnology Journal</i> , 2017, 15, 331-343.	8.3	51
25	Transgenic Alfalfa Plants Expressing the Sweetpotato Orange Gene Exhibit Enhanced Abiotic Stress Tolerance. <i>PLoS ONE</i> , 2015, 10, e0126050.	2.5	50
26	IbOr Regulates Photosynthesis under Heat Stress by Stabilizing IbPsbP in Sweetpotato. <i>Frontiers in Plant Science</i> , 2017, 8, 989.	3.6	50
27	Winter wheat yield and water use efficiency response to organic fertilization in northern China: A meta-analysis. <i>Agricultural Water Management</i> , 2020, 229, 105934.	5.6	48
28	Linkages between nutrient ratio and the microbial community in rhizosphere soil following fertilizer management. <i>Environmental Research</i> , 2020, 184, 109261.	7.5	47
29	Galactolipid remodeling is involved in drought-induced leaf senescence in maize. <i>Environmental and Experimental Botany</i> , 2018, 150, 57-68.	4.2	46
30	Exogenous Melatonin Improves Salt Tolerance by Mitigating Osmotic, Ion, and Oxidative Stresses in Maize Seedlings. <i>Agronomy</i> , 2020, 10, 663.	3.0	46
31	Regulation Effects of Water and Nitrogen on the Source-Sink Relationship in Potato during the Tuber Bulking Stage. <i>PLoS ONE</i> , 2016, 11, e0146877.	2.5	41
32	Down-regulation of lycopene β -cyclase expression in transgenic sweetpotato plants increases the carotenoid content and tolerance to abiotic stress. <i>Plant Science</i> , 2019, 281, 52-60.	3.6	41
33	Silicon increases salt tolerance by influencing the two-phase growth response to salinity in wheat (<i>Triticum aestivum</i> L.). <i>Acta Physiologiae Plantarum</i> , 2014, 36, 2531-2535.	2.1	39
34	Dissecting root trait variability in maize genotypes using the semi-hydroponic phenotyping platform. <i>Plant and Soil</i> , 2019, 439, 75-90.	3.7	38
35	Low-nitrogen tolerance comprehensive evaluation and physiological response to nitrogen stress in broomcorn millet (<i>Panicum miliaceum</i> L.) seedling. <i>Plant Physiology and Biochemistry</i> , 2020, 151, 233-242.	5.8	36
36	Transgenic poplar expressing <i>codA</i> exhibits enhanced growth and abiotic stress tolerance. <i>Plant Physiology and Biochemistry</i> , 2016, 100, 75-84.	5.8	32

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37	Physiological and Differential Proteomic Analyses of Imitation Drought Stress Response in Sorghum bicolor Root at the Seedling Stage. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9174.	4.1	30
38	Maize genotypes with deep root systems tolerate salt stress better than those with shallow root systems during early growth. <i>Journal of Agronomy and Crop Science</i> , 2020, 206, 711-721.	3.5	30
39	Sustainable high yields can be achieved in drylands on the Loess Plateau by changing water use patterns through integrated agronomic management. <i>Agricultural and Forest Meteorology</i> , 2021, 296, 108210.	4.8	29
40	Expression analysis and promoter methylation under osmotic and salinity stress of TaGAPC1 in wheat (<i>Triticum aestivum</i> L). <i>Protoplasma</i> , 2017, 254, 987-996.	2.1	28
41	Mulching-Induced Changes in Tuber Yield and Nitrogen Use Efficiency in Potato in China: A Meta-Analysis. <i>Agronomy</i> , 2019, 9, 793.	3.0	26
42	Plastic mulching reduces nitrogen footprint of food crops in China: A meta-analysis. <i>Science of the Total Environment</i> , 2020, 748, 141479.	8.0	26
43	Exogenous melatonin alleviates PEG-induced short-term water deficiency in maize by increasing hydraulic conductance. <i>BMC Plant Biology</i> , 2020, 20, 218.	3.6	26
44	Regulation of Galactolipid Biosynthesis by Overexpression of the Rice MGD Gene Contributes to Enhanced Aluminum Tolerance in Tobacco. <i>Frontiers in Plant Science</i> , 2016, 7, 337.	3.6	23
45	Seed Pre-Soaking with Melatonin Improves Wheat Yield by Delaying Leaf Senescence and Promoting Root Development. <i>Agronomy</i> , 2020, 10, 84.	3.0	23
46	Recovery of <i>Populus tremuloides</i> seedlings following severe drought causing total leaf mortality and extreme stem embolism. <i>Physiologia Plantarum</i> , 2010, 140, no-no.	5.2	22
47	Physiological mechanisms contributing to increased water-use efficiency in winter wheat under organic fertilization. <i>PLoS ONE</i> , 2017, 12, e0180205.	2.5	22
48	Nitrogen supply improved plant growth and Cd translocation in maize at the silking and physiological maturity under moderate Cd stress. <i>Ecotoxicology and Environmental Safety</i> , 2022, 230, 113137.	6.0	21
49	The spike weight contribution of the photosynthetic area above the upper internode in a winter wheat under different nitrogen and mulching regimes. <i>Crop Journal</i> , 2019, 7, 89-100.	5.2	20
50	Characterization of Root System Architecture Traits in Diverse Soybean Genotypes Using a Semi-Hydroponic System. <i>Plants</i> , 2021, 10, 2781.	3.5	19
51	Root morphology and rhizosphere acid phosphatase activity in legume and graminoid species respond differently to low phosphorus supply. <i>Rhizosphere</i> , 2021, 19, 100391.	3.0	18
52	Comprehensive evaluation of physiological traits under nitrogen stress and participation of linolenic acid in nitrogen-deficiency response in wheat seedlings. <i>BMC Plant Biology</i> , 2020, 20, 501.	3.6	16
53	Arbuscular mycorrhizal symbioses alleviating salt stress in maize is associated with a decline in root-to-leaf gradient of Na ⁺ /K ⁺ ratio. <i>BMC Plant Biology</i> , 2021, 21, 457.	3.6	16
54	Liquor Flavour Is Associated With the Physicochemical Property and Microbial Diversity of Fermented Grains in Waxy and Non-waxy Sorghum (<i>Sorghum bicolor</i>) During Fermentation. <i>Frontiers in Microbiology</i> , 2021, 12, 618458.	3.5	15

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55	Exogenous application of gibberellic acid participates in up-regulation of lipid biosynthesis under salt stress in rice. <i>Theoretical and Experimental Plant Physiology</i> , 2018, 30, 335-345.	2.4	13
56	Increasing rainfed wheat yield by optimizing agronomic practices to consume more subsoil water in the Loess Plateau. <i>Crop Journal</i> , 2021, 9, 1418-1427.	5.2	13
57	Coordinated regulation of carbon and nitrogen assimilation confers drought tolerance in maize (<i>Zea mays</i>). <i>Plant Physiology</i> , 2021, 185, 1078-1091.	4.2	12
58	Arabidopsis mutants with reduced monogalactosyldiacylglycerol contents are hypersensitive to aluminium stress. <i>Ecotoxicology and Environmental Safety</i> , 2020, 203, 110999.	6.0	9
59	Reducing greenhouse gas emissions and increasing yield through manure substitution and supplemental irrigation in dryland of northwest China. <i>Agriculture, Ecosystems and Environment</i> , 2022, 332, 107937.	5.3	9
60	Seedling Biomass Partition and Water Use Efficiency of Switchgrass and Milkvetch in Monocultures and Mixtures in Response to Various Water Availabilities. <i>Environmental Management</i> , 2010, 46, 599-609.	2.7	5
61	Stress-induced expression of the sweetpotato gene <i>lblea14</i> in poplar confers enhanced tolerance to multiple abiotic stresses. <i>Environmental and Experimental Botany</i> , 2018, 156, 261-270.	4.2	5
62	Nitrogen Vertical Distribution Differed in Foliar and Nonfoliar Organs of Dryland Wheat during Grain Filling. <i>Agronomy Journal</i> , 2019, 111, 1218-1228.	1.8	4
63	Identification, evolution and expression analyses of Ribulose-1,5-bisphosphate carboxylase/oxygenase small subunit gene family in wheat (<i>Triticum aestivum</i> L.). <i>Acta Physiologiae Plantarum</i> , 2018, 40, 1.	2.1	3
64	Soil Water Availability Changes in Amount and Timing Favor the Growth and Competitiveness of Grass Than a Co-dominant Legume in Their Mixtures. <i>Frontiers in Plant Science</i> , 2021, 12, 723839.	3.6	3
65	The efficient use of radiation, water, and nitrogen uptake by low-nitrogen-tolerant broomcorn millet (<i>Panicum miliaceum</i> L.) increased grain yield in the Loess Plateau, China. <i>Agricultural and Forest Meteorology</i> , 2021, 308-309, 108616.	4.8	2
66	Overexpression of the potato <i>StEPF2</i> gene confers enhanced drought tolerance in Arabidopsis. <i>Plant Biotechnology Reports</i> , 2020, 14, 479-490.	1.5	1
67	Highly efficient use of limited water in wheat production of semiarid area*. <i>Progress in Natural Science: Materials International</i> , 2003, 13, 881-888.	4.4	0