

Xiping Deng

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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.

67

papers

3,205

citations

26

h-index

56

g-index

67

ext. papers

4,245

ext. citations

6.4

avg, IF

5.2

L-index

#	Paper	IF	Citations
67	Producing more grain with lower environmental costs. <i>Nature</i> , 2014 , 514, 486-9	50.4	860
66	Pursuing sustainable productivity with millions of smallholder farmers. <i>Nature</i> , 2018 , 555, 363-366	50.4	408
65	Aquaporin-mediated increase in root hydraulic conductance is involved in silicon-induced improved root water uptake under osmotic stress in Sorghum bicolor L. <i>Journal of Experimental Botany</i> , 2014 , 65, 4747-56	7	143
64	Enhanced root hydraulic conductance by aquaporin regulation accounts for silicon alleviated salt-induced osmotic stress in Sorghum bicolor L. <i>Environmental and Experimental Botany</i> , 2015 , 111, 42-51	5.9	136
63	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	6.2	122
62	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	2.6	102
61	Melatonin Mitigates Salt Stress in Wheat Seedlings by Modulating Polyamine Metabolism. <i>Frontiers in Plant Science</i> , 2018 , 9, 914	6.2	91
60	Transgenic poplar expressing Arabidopsis YUCCA6 exhibits auxin-overproduction phenotypes and increased tolerance to abiotic stress. <i>Plant Physiology and Biochemistry</i> , 2015 , 94, 19-27	5.4	85
59	Silicon-mediated changes in polyamine and 1-aminocyclopropane-1-carboxylic acid are involved in silicon-induced drought resistance in Sorghum bicolor L. <i>Plant Physiology and Biochemistry</i> , 2014 , 80, 268-77	5.4	78
58	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	6.2	78
57	Silicon moderated the K deficiency by improving the plant-water status in sorghum. <i>Scientific Reports</i> , 2016 , 6, 22882	4.9	68
56	Carbon/Nitrogen Imbalance Associated with Drought-Induced Leaf Senescence in Sorghum bicolor. <i>PLoS ONE</i> , 2015 , 10, e0137026	3.7	61
55	How Does Silicon Mediate Plant Water Uptake and Loss Under Water Deficiency?. <i>Frontiers in Plant Science</i> , 2018 , 9, 281	6.2	55
54	Maintenance of Chloroplast Structure and Function by Overexpression of the Rice MONOGALACTOSYLDIACYLGLYCEROL SYNTHASE Gene Leads to Enhanced Salt Tolerance in Tobacco. <i>Plant Physiology</i> , 2014 , 165, 1144-1155	6.6	54
53	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	5.9	49
52	Plant lipid remodeling in response to abiotic stresses. <i>Environmental and Experimental Botany</i> , 2019 , 165, 174-184	5.9	48
51	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	5.4	46

50	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	4.5	43
49	Silicon-moderated K-deficiency-induced leaf chlorosis by decreasing putrescine accumulation in sorghum. <i>Annals of Botany</i> , 2016 , 118, 305-15	4.1	41
48	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	4.6	39
47	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	5.4	38
46	Transgenic alfalfa plants expressing the sweetpotato Orange gene exhibit enhanced abiotic stress tolerance. <i>PLoS ONE</i> , 2015 , 10, e0126050	3.7	36
45	Down-regulation of GIGANTEA-like genes increases plant growth and salt stress tolerance in poplar. <i>Plant Biotechnology Journal</i> , 2017 , 15, 331-343	11.6	33
44	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	2.6	29
43	Transgenic poplar expressing codA exhibits enhanced growth and abiotic stress tolerance. <i>Plant Physiology and Biochemistry</i> , 2016 , 100, 75-84	5.4	28
42	IbOr Regulates Photosynthesis under Heat Stress by Stabilizing IbPsbP in Sweetpotato. <i>Frontiers in Plant Science</i> , 2017 , 8, 989	6.2	28
41	Combined application of silicon and nitric oxide jointly alleviated cadmium accumulation and toxicity in maize. <i>Journal of Hazardous Materials</i> , 2020 , 395, 122679	12.8	25
40	Galactolipid remodeling is involved in drought-induced leaf senescence in maize. <i>Environmental and Experimental Botany</i> , 2018 , 150, 57-68	5.9	24
39	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	3.7	24
38	Linkages between nutrient ratio and the microbial community in rhizosphere soil following fertilizer management. <i>Environmental Research</i> , 2020 , 184, 109261	7.9	23
37	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	5.3	22
36	Recovery of <i>Populus tremuloides</i> seedlings following severe drought causing total leaf mortality and extreme stem embolism. <i>Physiologia Plantarum</i> , 2010 , 140, 246-57	4.6	20
35	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	5.9	19
34	Exogenous melatonin alleviates PEG-induced short-term water deficiency in maize by increasing hydraulic conductance. <i>BMC Plant Biology</i> , 2020 , 20, 218	5.3	18
33	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	5.4	18

32	Dissecting root trait variability in maize genotypes using the semi-hydroponic phenotyping platform. <i>Plant and Soil</i> , 2019 , 439, 75-90	4.2	18
31	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	6.2	17
30	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	3.4	16
29	Exogenous Melatonin Improves Salt Tolerance by Mitigating Osmotic, Ion, and Oxidative Stresses in Maize Seedlings. <i>Agronomy</i> , 2020 , 10, 663	3.6	15
28	Meta-analysis of green manure effects on soil properties and crop yield in northern China. <i>Field Crops Research</i> , 2021 , 266, 108146	5.5	15
27	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	4.6	14
26	Mulching-Induced Changes in Tuber Yield and Nitrogen Use Efficiency in Potato in China: A Meta-Analysis. <i>Agronomy</i> , 2019 , 9, 793	3.6	12
25	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	3.9	11
24	Seed Pre-Soaking with Melatonin Improves Wheat Yield by Delaying Leaf Senescence and Promoting Root Development. <i>Agronomy</i> , 2020 , 10, 84	3.6	9
23	Plastic mulching reduces nitrogen footprint of food crops in China: A meta-analysis. <i>Science of the Total Environment</i> , 2020 , 748, 141479	10.2	9
22	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	5.8	9
21	Physiological mechanisms contributing to increased water-use efficiency in winter wheat under organic fertilization. <i>PLoS ONE</i> , 2017 , 12, e0180205	3.7	8
20	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	8
19	Physiological and Differential Proteomic Analyses of Imitation Drought Stress Response in Root at the Seedling Stage. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	7
18	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	5.3	6
17	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	3.1	5
16	Coordinated regulation of carbon and nitrogen assimilation confers drought tolerance in maize (<i>Zea mays</i> L.). <i>Environmental and Experimental Botany</i> , 2020 , 176, 104086	5.9	5
15	Increasing rainfed wheat yield by optimizing agronomic practices to consume more subsoil water in the loess plateau. <i>Crop Journal</i> , 2021 , 9, 1418-1418	4.6	5

14	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	5.3	4
13	<i>Arabidopsis</i> mgd mutants with reduced monogalactosyldiacylglycerol contents are hypersensitive to aluminium stress. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 203, 110999	7	4
12	Stress-induced expression of the sweetpotato gene IbLEA14 in poplar confers enhanced tolerance to multiple abiotic stresses. <i>Environmental and Experimental Botany</i> , 2018 , 156, 261-270	5.9	4
11	Root morphology and rhizosphere acid phosphatase activity in legume and graminoid species respond differently to low phosphorus supply. <i>Rhizosphere</i> , 2021 , 19, 100391	3.5	4
10	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	2.6	2
9	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> , 2021 , 230, 113137	7	2
8	Characterization of Root System Architecture Traits in Diverse Soybean Genotypes Using a Semi-Hydroponic System.. <i>Plants</i> , 2021 , 10,	4.5	2
7	Nitrogen Vertical Distribution Differed in Foliar and Nonfoliar Organs of Dryland Wheat during Grain Filling. <i>Agronomy Journal</i> , 2019 , 111, 1218-1228	2.2	1
6	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	5.7	1
5	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	6.2	0
4	Liquor Flavour Is Associated With the Physicochemical Property and Microbial Diversity of Fermented Grains in Waxy and Non-waxy Sorghum () During Fermentation. <i>Frontiers in Microbiology</i> , 2021 , 12, 618458	5.7	0
3	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	5.8	0
2	Highly efficient use of limited water in wheat production of semiarid area. <i>Progress in Natural Science: Materials International</i> , 2003 , 13, 881-888	3.6	
1	Overexpression of the potato StEPF2 gene confers enhanced drought tolerance in <i>Arabidopsis</i> . <i>Plant Biotechnology Reports</i> , 2020 , 14, 479-490	2.5	