

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

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docs citations

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times ranked

5434
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | Characterization of Root System Architecture Traits in Diverse Soybean Genotypes Using a Semi-Hydroponic System. <i>Plants</i> , 2021, 10, 2781. | 3.5 | 19 |
| 12 | 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 |
| 13 | 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 |
| 14 | <i>Arabidopsis mgl</i> mutants with reduced monogalactosyldiacylglycerol contents are hypersensitive to aluminium stress. <i>Ecotoxicology and Environmental Safety</i> , 2020, 203, 110999. | 6.0 | 9 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 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. | 3.6 | 16 |

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|----|---|------|-----------|
| 19 | Exogenous Melatonin Improves Salt Tolerance by Mitigating Osmotic, Ion, and Oxidative Stresses in Maize Seedlings. <i>Agronomy</i> , 2020, 10, 663. | 3.0 | 46 |
| 20 | 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 |
| 21 | 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 |
| 22 | Linkages between nutrient ratio and the microbial community in rhizosphere soil following fertilizer management. <i>Environmental Research</i> , 2020, 184, 109261. | 7.5 | 47 |
| 23 | 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 |
| 24 | Coordinated regulation of carbon and nitrogen assimilation confers drought tolerance in maize (<i>Zea mays</i> L.). <i>Plant Physiology</i> , 2020, 184, 109261. | 4.2 | 12 |
| 25 | Overexpression of the potato StEPF2 gene confers enhanced drought tolerance in Arabidopsis. <i>Plant Biotechnology Reports</i> , 2020, 14, 479-490. | 1.5 | 1 |
| 26 | 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 |
| 27 | Plant lipid remodeling in response to abiotic stresses. <i>Environmental and Experimental Botany</i> , 2019, 165, 174-184. | 4.2 | 103 |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 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 | Pursuing sustainable productivity with millions of smallholder farmers. <i>Nature</i> , 2018, 555, 363-366. | 27.8 | 747 |
| 34 | Galactolipid remodeling is involved in drought-induced leaf senescence in maize. <i>Environmental and Experimental Botany</i> , 2018, 150, 57-68. | 4.2 | 46 |
| 35 | 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 |
| 36 | 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 |

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|----|---|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | How Does Silicon Mediate Plant Water Uptake and Loss Under Water Deficiency?. <i>Frontiers in Plant Science</i> , 2018, 9, 281. | 3.6 | 97 |
| 40 | Melatonin Mitigates Salt Stress in Wheat Seedlings by Modulating Polyamine Metabolism. <i>Frontiers in Plant Science</i> , 2018, 9, 914. | 3.6 | 151 |
| 41 | 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 |
| 42 | 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 |
| 43 | Expression analysis and promoter methylation under osmotic and salinity stress of <i>TaGAPC1</i> in wheat (<i>Triticum aestivum</i> L). <i>Protoplasma</i> , 2017, 254, 987-996. | 2.1 | 28 |
| 44 | 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 |
| 45 | <i>lbor</i> Regulates Photosynthesis under Heat Stress by Stabilizing <i>lpsbP</i> in Sweetpotato. <i>Frontiers in Plant Science</i> , 2017, 8, 989. | 3.6 | 50 |
| 46 | Physiological mechanisms contributing to increased water-use efficiency in winter wheat under organic fertilization. <i>PLoS ONE</i> , 2017, 12, e0180205. | 2.5 | 22 |
| 47 | 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 |
| 48 | Regulation of Galactolipid Biosynthesis by Overexpression of the Rice <i>MGD</i> Gene Contributes to Enhanced Aluminum Tolerance in Tobacco. <i>Frontiers in Plant Science</i> , 2016, 7, 337. | 3.6 | 23 |
| 49 | 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 |
| 50 | Silicon moderated the K deficiency by improving the plant-water status in sorghum. <i>Scientific Reports</i> , 2016, 6, 22882. | 3.3 | 91 |
| 51 | 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 |
| 52 | 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 |
| 53 | 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 |
| 54 | Transgenic Alfalfa Plants Expressing the Sweetpotato Orange Gene Exhibit Enhanced Abiotic Stress Tolerance. <i>PLoS ONE</i> , 2015, 10, e0126050. | 2.5 | 50 |

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|----|--|------|-----------|
| 55 | Carbon/Nitrogen Imbalance Associated with Drought-Induced Leaf Senescence in Sorghum bicolor. PLoS ONE, 2015, 10, e0137026. | 2.5 | 98 |
| 56 | Silicon enhanced salt tolerance by improving the root water uptake and decreasing the ion toxicity in cucumber. Frontiers in Plant Science, 2015, 6, 759. | 3.6 | 111 |
| 57 | Transgenic poplar expressing Arabidopsis YUCCA6 exhibits auxin-overproduction phenotypes and increased tolerance to abiotic stress. Plant Physiology and Biochemistry, 2015, 94, 19-27. | 5.8 | 110 |
| 58 | Enhanced root hydraulic conductance by aquaporin regulation accounts for silicon alleviated salt-induced osmotic stress in Sorghum bicolor L. Environmental and Experimental Botany, 2015, 111, 42-51. | 4.2 | 188 |
| 59 | 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. Frontiers in Plant Science, 2015, 6, 1241. | 3.6 | 225 |
| 60 | Aquaporin-mediated increase in root hydraulic conductance is involved in silicon-induced improved root water uptake under osmotic stress in Sorghum bicolor L.. Journal of Experimental Botany, 2014, 65, 4747-4756. | 4.8 | 196 |
| 61 | Producing more grain with lower environmental costs. Nature, 2014, 514, 486-489. | 27.8 | 1,292 |
| 62 | Maintenance of Chloroplast Structure and Function by Overexpression of the Rice <i>MONOGALACTOSYLDIACYLGLYCEROL SYNTHASE</i> Gene Leads to Enhanced Salt Tolerance in Tobacco <i>Á</i> . Plant Physiology, 2014, 165, 1144-1155. | 4.8 | 82 |
| 63 | Silicon increases salt tolerance by influencing the two-phase growth response to salinity in wheat (<i>Triticum aestivum</i> L.). Acta Physiologiae Plantarum, 2014, 36, 2531-2535. | 2.1 | 39 |
| 64 | Silicon-mediated changes in polyamine and 1-aminocyclopropane-1-carboxylic acid are involved in silicon-induced drought resistance in Sorghum bicolor L. Plant Physiology and Biochemistry, 2014, 80, 268-277. | 5.8 | 114 |
| 65 | Seedling Biomass Partition and Water Use Efficiency of Switchgrass and Milkvetch in Monocultures and Mixtures in Response to Various Water Availabilities. Environmental Management, 2010, 46, 599-609. | 2.7 | 5 |
| 66 | Recovery of <i>Populus tremuloides</i> seedlings following severe drought causing total leaf mortality and extreme stem embolism. Physiologia Plantarum, 2010, 140, no-no. | 5.2 | 22 |
| 67 | Highly efficient use of limited water in wheat production of semiarid area*. Progress in Natural Science: Materials International, 2003, 13, 881-888. | 4.4 | 0 |