Ji-Wang Zhang

List of Publications by Year
in descending order

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90 papers	5,880 citations	147801 31 h-index	76900 74 g-index
98 all docs	98 docs citations	98 times ranked	5241 citing authors

#	Article	IF	Citations
1	Responses of photosynthetic characteristics and leaf senescence in summer maize to simultaneous stresses of waterlogging and shading. Crop Journal, 2023, 11, 269-277.	5.2	13
2	Poor development of spike differentiation triggered by lower photosynthesis and carbon partitioning reduces summer maize yield after waterlogging. Crop Journal, 2022, 10, 478-489.	5.2	16
3	Phosphoproteomic and physiological analysis revealed 6-benzyladenine improved the operation of photosynthetic apparatus in waterlogged summer maize. Environmental and Experimental Botany, 2022, 193, 104679.	4.2	4
4	Increasing grain yield, nitrogen use efficiency of summer maize and reducing greenhouse gas emissions by applying urea ammonium nitrate solution. Agronomy Journal, 2022, 114, 948-960.	1.8	5
5	Root physiological adaptations that enhance the grain yield and nutrient use efficiency of maize (Zea) Tj ETQq1 1 0.784314 rgBT /Overl	5.1	32
6	Achieve simultaneous increase in straw resources efficiency and nitrogen efficiency under crop yield stabilization â€“ A case study of NCP in China for up to 8 years. Field Crops Research, 2022, 278, 108431.	5.1	7
7	Response of Leaf Senescence, Photosynthetic Characteristics, and Yield of Summer Maize to Controlled-Release Urea-Based Application Depth. Agronomy, 2022, 12, 687.	3.0	7
8	Comparative Yield and Photosynthetic Characteristics of Two Corn (Zea mays L.) Hybrids Differing in Maturity under Different Irrigation Treatments. Agriculture (Switzerland), 2022, 12, 365.	3.1	6
9	Effects of Humic Acid Added to Controlled-Release Fertilizer on Summer Maize Yield, Nitrogen Use Efficiency and Greenhouse Gas Emission. Agriculture (Switzerland), 2022, 12, 448.	3.1	15
10	Exogenous 6-Benzyladenine Improved the Ear Differentiation of Waterlogged Summer Maize by Regulating the Metabolism of Hormone and Sugar. Frontiers in Plant Science, 2022, 13, 848989.	3.6	2
11	Responses of the Lodging Resistance of Summer Maize with Different Gene Types to Plant Density. Agronomy, 2022, 12, 10.	3.0	10
12	How delaying post-silking senescence in lower leaves of maize plants increases carbon and nitrogen accumulation and grain yield. Crop Journal, 2022, 10, 853-863.	5.2	8
13	Endogenous hormones improve the salt tolerance of maize (Zea mays L.) by inducing root architecture and ion balance optimizations. Journal of Agronomy and Crop Science, 2022, 208, 662-674.	3.5	7
14	Optimized agronomic management practices narrow the yield gap of summer maize through regulating canopy light interception and nitrogen distribution. European Journal of Agronomy, 2022, 137, 126520.	4.1	11
15	Integrated agronomic practices management decreases soil carbon emissions and increases environmental ecological benefits of summer maize. Pedosphere, 2022, , .	4.0	0
16	Responses of nitrogen efficiency and antioxidant system of summer maize to waterlogging stress under different tillage. PeerJ, 2021, 9, e11834.	2.0	7
17	Effects of Urea-Ammonium Nitrate Solution on Yield, N2O Emission, and Nitrogen Efficiency of Summer Maize Under Integration of Water and Fertilizer. Frontiers in Plant Science, 2021, 12, 700331.	3.6	15
18	Lignin metabolism regulates lodging resistance of maize hybrids under varying planting density. Journal of Integrative Agriculture, 2021, 20, 2077-2089.	3.5	21

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19	Leaf-nitrogen status affects grain yield formation through modification of spike differentiation in maize. Field Crops Research, 2021, 271, 108238.	5.1	4
20	6â€Benzyladenine increasing subsequent waterloggingâ€induced waterlogging tolerance of summer maize by increasing hormone signal transduction. Annals of the New York Academy of Sciences, 2021, , .	3.8	2
21	Controlled-release urea combining with optimal irrigation improved grain yield, nitrogen uptake, and growth of maize. Agricultural Water Management, 2020, 227, 105834.	5.6	55
22	Responses of Harmonia axyridis (Coleoptera: Coccinellidae) to sulfoxaflor exposure. Ecotoxicology and Environmental Safety, 2020, 187, 109849.	6.0	9
23	Nitrogen placement at sowing affects root growth, grain yield formation, N use efficiency in maize. Plant and Soil, 2020, 457, 355-373.	3.7	38
24	Shade stress decreased maize grain yield, dry matter, and nitrogen accumulation. Agronomy Journal, 2020, 112, 2768-2776.	1.8	22
25	Improving soil properties and grains yield of winter wheat and summer corn under residue management strategies. Agronomy Journal, 2020, 112, 4287-4302.	1.8	5
26	Effects of urea mixed with nitrapyrin on leaf photosynthetic and senescence characteristics of summer maize (Zea mays L.) waterlogged in the field. Journal of Integrative Agriculture, 2020, 19, 1586-1595.	3.5	16
27	Integrated agronomic practices management improved grain formation and regulated endogenous hormone balance in summer maize (Zea mays L.). Journal of Integrative Agriculture, 2020, 19, 1768-1776.	3.5	13
28	High temperature reduces photosynthesis in maize leaves by damaging chloroplast ultrastructure and photosystem II. Journal of Agronomy and Crop Science, 2020, 206, 548-564.	3.5	43
29	Physiological and comparative proteomic analysis provides new insights into the effects of shade stress in maize (Zea mays L.). BMC Plant Biology, 2020, 20, 60.	3.6	26
30	Comparative proteomic analysis reveals that exogenous 6-benzyladenine (6-BA) improves the defense system activity of waterlogged summer maize. BMC Plant Biology, 2020, 20, 44.	3.6	38
31	The combined application of organic and inorganic fertilizers increases soil organic matter and improves soil microenvironment in wheat-maize field. Journal of Soils and Sediments, 2020, 20, 2395-2404.	3.0	28
32	Morphological and Physiological Characteristics of Maize Roots in Response to Controlledâ€Release Urea under Different Soil Moisture Conditions. Agronomy Journal, 2019, 111, 1849-1864.	1.8	12
33	Growth, DNA damage and biochemical toxicity of cyantraniliprole in earthworms (Eisenia fetida). Chemosphere, 2019, 236, 124328.	8.2	37
34	Spraying exogenous synthetic cytokinin 6â€benzyladenine following the waterlogging improves grain growth of waterlogged maize in the field. Journal of Agronomy and Crop Science, 2019, 205, 616-624.	3.5	19
35	Maize/peanut intercropping increases photosynthetic characteristics, 13C-photosynthate distribution, and grain yield of summer maize. Journal of Integrative Agriculture, 2019, 18, 2219-2229.	3.5	31
36	Effects of residue management strategies on greenhouse gases and yield under double cropping of winter wheat and summer maize. Science of the Total Environment, 2019, 687, 1138-1146.	8.0	38

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37	Compatibility of chlorantraniliprole with the generalist predator Coccinella septempunctata L. (Coleoptera: Coccinellidae) based toxicity, life-cycle development and population parameters in laboratory microcosms. Chemosphere, 2019, 225, 182-190.	8.2	27
38	Crop production kept stable and sustainable with the decrease of nitrogen rate in North China Plain: An economic and environmental assessment over 8 years. Scientific Reports, 2019, 9, 19335.	3.3	11
39	Late harvest improves yield and nitrogen utilization efficiency of summer maize. Field Crops Research, 2019, 232, 88-94.	5.1	25
40	Responses of carbon metabolism and antioxidant system of summer maize to waterlogging at different stages. Journal of Agronomy and Crop Science, 2018, 204, 505-514.	3.5	24
41	Integrated agronomic practices management improve yield and nitrogen balance in double cropping of winter wheat-summer maize. Field Crops Research, 2018, 221, 196-206.	5.1	58
42	Exogenous 6â€benzyladenine improves antioxidative system and carbon metabolism of summer maize waterlogged in the field. Journal of Agronomy and Crop Science, 2018, 204, 175-184.	3.5	25
43	Response of Maize Root Growth to Residue Management Strategies. Agronomy Journal, 2018, 110, 95-103.	1.8	15
44	Grain development and endogenous hormones in summer maize (Zea mays L.) submitted to different light conditions. International Journal of Biometeorology, 2018, 62, 2131-2138.	3.0	19
45	Soil physical properties and maize root growth under different tillage systems in the North China Plain. Crop Journal, 2018, 6, 669-676.	5.2	44
46	Photosynthetic Characteristics and Chloroplast Ultrastructure of Summer Maize Response to Different Nitrogen Supplies. Frontiers in Plant Science, 2018, 9, 576.	3.6	51
47	Effects of insect growth-regulator insecticides on the immature stages of Harmonia axyridis (Coleoptera: Coccinellidae). Ecotoxicology and Environmental Safety, 2018, 164, 665-674.	6.0	15
48	Regulations of 6-Benzyladenine (6-BA) on Leaf Ultrastructure and Photosynthetic Characteristics of Waterlogged Summer Maize. Journal of Plant Growth Regulation, 2017, 36, 743-754.	5.1	29
49	Grain yield and root characteristics of summer maize (Zea mays L.) under shade stress conditions. Journal of Agronomy and Crop Science, 2017, 203, 562-573.	3.5	38
50	Effects of plant density on the photosynthetic and chloroplast characteristics of maize under high-yielding conditions. Die Naturwissenschaften, 2017, 104, 12.	1.6	49
51	Proteomics analysis of maize (Zea mays L.) grain based on iTRAQ reveals molecular mechanisms of poor grain filling in inferior grains. Plant Physiology and Biochemistry, 2017, 115, 83-96.	5.8	15
52	Effects of integrated agronomic practices management on root growth and development of summer maize. European Journal of Agronomy, 2017, 84, 140-151.	4.1	74
53	Interactive effects of water and controlled release urea on nitrogen metabolism, accumulation, translocation, and yield in summer maize. Die Naturwissenschaften, 2017, 104, 72.	1.6	20
54	Photosynthetic Characteristics of Summer Maize Hybrids with Different Plant Heights. Agronomy Journal, 2017, 109, 1454-1462.	1.8	5

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55	Responses of Nitrogen Metabolism, Uptake and Translocation of Maize to Waterlogging at Different Growth Stages. Frontiers in Plant Science, 2017, 8, 1216.	3.6	52
56	Response of Summer Maize Photosynthate Accumulation and Distribution to Shading Stress Assessed by Using 13CO2 Stable Isotope Tracer in the Field. Frontiers in Plant Science, 2017, 8, 1821.	3.6	60
57	Nitrapyrin Improves Grain Yield and Nitrogen Use Efficiency of Summer Maize Waterlogged in the Field. Agronomy Journal, 2017, 109, 185-192.	1.8	18
58	Root and Shoot Responses of Summer Maize to Waterlogging at Different Stages. Agronomy Journal, 2016, 108, 1060-1069.	1.8	45
59	Comparative proteomic analysis provides new insights into ear leaf senescence of summer maize (Zea) Tj ETQq1 1 0.784314 rgBT /Over	3.5	5
60	Effects of shading on the photosynthetic characteristics and mesophyll cell ultrastructure of summer maize. Die Naturwissenschaften, 2016, 103, 67.	1.6	55
61	Effects of Duration of Waterlogging at Different Growth Stages on Grain Growth of Summer Maize (Zea mays L.) Under Field Conditions. Journal of Agronomy and Crop Science, 2016, 202, 564-575.	3.5	35
62	Ridge tillage improves plant growth and grain yield of waterlogged summer maize. Agricultural Water Management, 2016, 177, 392-399.	5.6	35
63	Effects of spraying exogenous hormone 6-benzyladenine (6-BA) after waterlogging on grain yield and growth of summer maize. Field Crops Research, 2016, 188, 96-104.	5.1	52
64	Lysimeter study of nitrogen losses and nitrogen use efficiency of Northern Chinese wheat. Field Crops Research, 2016, 188, 82-95.	5.1	48
65	Effects of Waterlogging on Leaf Mesophyll Cell Ultrastructure and Photosynthetic Characteristics of Summer Maize. PLoS ONE, 2016, 11, e0161424.	2.5	76
66	Modified fertilization management of summer maize (Zea mays L.) in northern China improves grain yield and efficiency of nitrogen use. Journal of Integrative Agriculture, 2015, 14, 1644-1657.	3.5	15
67	The role of nitrogen in leaf senescence of summer maize and analysis of underlying mechanisms using comparative proteomics. Plant Science, 2015, 233, 72-81.	3.6	27
68	Application of nitric oxide and calcium nitrate enhances tolerance of wheat seedlings to salt stress. Plant Growth Regulation, 2015, 77, 343-356.	3.4	84
69	Effects of shading on spike differentiation and grain yield formation of summer maize in the field. International Journal of Biometeorology, 2015, 59, 1189-1200.	3.0	40
70	Effects of Coupling Controlled Release Urea with Water on Yield and Photo-synthetic Characteristics in Summer Maize. Acta Agronomica Sinica(China), 2015, 41, 1406.	0.3	4
71	Effect of different nitrogen and irrigation treatments on yield and nitrate leaching of summer maize (Zea mays L.) under lysimeter conditions. Agricultural Water Management, 2014, 137, 92-103.	5.6	138
72	Photosynthesis and ultrastructure of photosynthetic apparatus in tomato leaves under elevated temperature. Photosynthetica, 2014, 52, 430-436.	1.7	39

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73	Producing more grain with lower environmental costs. Nature, 2014, 514, 486-489.	27.8	1,292
74	Effects of waterlogging on the yield and growth of summer maize under field conditions. Canadian Journal of Plant Science, 2014, 94, 23-31.	0.9	120
75	Effects of Controlled-Release Fertiliser on Nitrogen Use Efficiency in Summer Maize. PLoS ONE, 2013, 8, e70569.	2.5	56
76	Characteristics of Accumulation, Transition and Distribution of Assimilate in Summer Maize Varieties with Different Plant Height. Acta Agronomica Sinica(China), 2013, 38, 1080-1087.	0.3	3
77	Effects of Shading on Photosynthetic Characteristics and Xanthophyll Cycle of Summer Maize in the Field. Acta Agronomica Sinica(China), 2013, 39, 478.	0.3	11
78	Effects of Exogenous Hormone 6 Benzyl Adenine (6-BA) on Photosystem II Performance of Maize during Process of Leaf Senescence under Different Nitrogen Fertilization Levels. Acta Agronomica Sinica(China), 2013, 39, 1111.	0.3	8
79	Factors affecting summer maize yield under climate change in Shandong Province in the Huanghuaihai Region of China. International Journal of Biometeorology, 2012, 56, 621-629.	3.0	30
80	Effects of integrated agronomic management practices on yield and nitrogen efficiency of summer maize in North China. Field Crops Research, 2012, 134, 30-35.	5.1	127
81	Morphological and physiological characteristics of corn (Zea mays L.) roots from cultivars with different yield potentials. European Journal of Agronomy, 2012, 38, 54-63.	4.1	96
82	Effects of Shading at Different Stages After Anthesis on Maize Grain Weight and Quality at Cytology Level. Agricultural Sciences in China, 2011, 10, 58-69.	0.6	42
83	Dry Matter Production and Photosynthesis Characteristics of Three Hybrids of Maize (<I>Zea) Tj ETQq1 1 0.784314 rgBT /Overlo	0.3	4
84	Effect of Plant Density on Grain Yield Dry Matter Accumulation and Parti-tioning in Summer Maize Cultivar Denghai 661. Acta Agronomica Sinica(China), 2011, 37, 1301-1307.	0.3	11
85	Overaccumulation of glycine betaine enhances tolerance of the photosynthetic apparatus to drought and heat stress in wheat. Photosynthetica, 2010, 48, 30-41.	1.7	105
86	Effects of Planting Density and Row Spacing on Canopy Apparent Photosyn-thesis of High-Yield Summer Corn. Acta Agronomica Sinica(China), 2010, 36, 1226-1235.	0.3	36
87	Effects of Shading in Field on Key Enzymes Involved in Starch Synthesis of Summer Maize. Acta Agronomica Sinica(China), 2008, 34, 1470-1474.	0.3	14
88	Hormonal Changes in the Grains of Rice Subjected to Water Stress during Grain Filling. Plant Physiology, 2001, 127, 315-323.	4.8	643
89	Root Signals and the Regulation of Growth and Development of Plants in Drying Soil. Annual Review of Plant Biology, 1991, 42, 55-76.	14.3	1,266
90	Response of the Soil Microbe Community to Maize Residue Management Strategies Under Double-Cropping Systems. Frontiers in Agronomy, 0, 4, .	3.3	0