

Ji-Wang Zhang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5410945/publications.pdf>

Version: 2024-02-01

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 | Producing more grain with lower environmental costs. <i>Nature</i> , 2014, 514, 486-489. | 27.8 | 1,292 |
| 2 | Root Signals and the Regulation of Growth and Development of Plants in Drying Soil. <i>Annual Review of Plant Biology</i> , 1991, 42, 55-76. | 14.3 | 1,266 |
| 3 | Hormonal Changes in the Grains of Rice Subjected to Water Stress during Grain Filling. <i>Plant Physiology</i> , 2001, 127, 315-323. | 4.8 | 643 |
| 4 | Effect of different nitrogen and irrigation treatments on yield and nitrate leaching of summer maize (<i>Zea mays</i> L.) under lysimeter conditions. <i>Agricultural Water Management</i> , 2014, 137, 92-103. | 5.6 | 138 |
| 5 | Effects of integrated agronomic management practices on yield and nitrogen efficiency of summer maize in North China. <i>Field Crops Research</i> , 2012, 134, 30-35. | 5.1 | 127 |
| 6 | Effects of waterlogging on the yield and growth of summer maize under field conditions. <i>Canadian Journal of Plant Science</i> , 2014, 94, 23-31. | 0.9 | 120 |
| 7 | Overaccumulation of glycine betaine enhances tolerance of the photosynthetic apparatus to drought and heat stress in wheat. <i>Photosynthetica</i> , 2010, 48, 30-41. | 1.7 | 105 |
| 8 | Morphological and physiological characteristics of corn (<i>Zea mays</i> L.) roots from cultivars with different yield potentials. <i>European Journal of Agronomy</i> , 2012, 38, 54-63. | 4.1 | 96 |
| 9 | Application of nitric oxide and calcium nitrate enhances tolerance of wheat seedlings to salt stress. <i>Plant Growth Regulation</i> , 2015, 77, 343-356. | 3.4 | 84 |
| 10 | Effects of Waterlogging on Leaf Mesophyll Cell Ultrastructure and Photosynthetic Characteristics of Summer Maize. <i>PLoS ONE</i> , 2016, 11, e0161424. | 2.5 | 76 |
| 11 | Effects of integrated agronomic practices management on root growth and development of summer maize. <i>European Journal of Agronomy</i> , 2017, 84, 140-151. | 4.1 | 74 |
| 12 | Response of Summer Maize Photosynthate Accumulation and Distribution to Shading Stress Assessed by Using ¹³ C ₂ Stable Isotope Tracer in the Field. <i>Frontiers in Plant Science</i> , 2017, 8, 1821. | 3.6 | 60 |
| 13 | Integrated agronomic practices management improve yield and nitrogen balance in double cropping of winter wheat-summer maize. <i>Field Crops Research</i> , 2018, 221, 196-206. | 5.1 | 58 |
| 14 | Effects of Controlled-Release Fertiliser on Nitrogen Use Efficiency in Summer Maize. <i>PLoS ONE</i> , 2013, 8, e70569. | 2.5 | 56 |
| 15 | Effects of shading on the photosynthetic characteristics and mesophyll cell ultrastructure of summer maize. <i>Die Naturwissenschaften</i> , 2016, 103, 67. | 1.6 | 55 |
| 16 | Controlled-release urea combining with optimal irrigation improved grain yield, nitrogen uptake, and growth of maize. <i>Agricultural Water Management</i> , 2020, 227, 105834. | 5.6 | 55 |
| 17 | Effects of spraying exogenous hormone 6-benzyladenine (6-BA) after waterlogging on grain yield and growth of summer maize. <i>Field Crops Research</i> , 2016, 188, 96-104. | 5.1 | 52 |
| 18 | Responses of Nitrogen Metabolism, Uptake and Translocation of Maize to Waterlogging at Different Growth Stages. <i>Frontiers in Plant Science</i> , 2017, 8, 1216. | 3.6 | 52 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Photosynthetic Characteristics and Chloroplast Ultrastructure of Summer Maize Response to Different Nitrogen Supplies. <i>Frontiers in Plant Science</i> , 2018, 9, 576. | 3.6 | 51 |
| 20 | Effects of plant density on the photosynthetic and chloroplast characteristics of maize under high-yielding conditions. <i>Die Naturwissenschaften</i> , 2017, 104, 12. | 1.6 | 49 |
| 21 | Lysimeter study of nitrogen losses and nitrogen use efficiency of Northern Chinese wheat. <i>Field Crops Research</i> , 2016, 188, 82-95. | 5.1 | 48 |
| 22 | Root and Shoot Responses of Summer Maize to Waterlogging at Different Stages. <i>Agronomy Journal</i> , 2016, 108, 1060-1069. | 1.8 | 45 |
| 23 | Soil physical properties and maize root growth under different tillage systems in the North China Plain. <i>Crop Journal</i> , 2018, 6, 669-676. | 5.2 | 44 |
| 24 | High temperature reduces photosynthesis in maize leaves by damaging chloroplast ultrastructure and photosystem II. <i>Journal of Agronomy and Crop Science</i> , 2020, 206, 548-564. | 3.5 | 43 |
| 25 | Effects of Shading at Different Stages After Anthesis on Maize Grain Weight and Quality at Cytology Level. <i>Agricultural Sciences in China</i> , 2011, 10, 58-69. | 0.6 | 42 |
| 26 | Effects of shading on spike differentiation and grain yield formation of summer maize in the field. <i>International Journal of Biometeorology</i> , 2015, 59, 1189-1200. | 3.0 | 40 |
| 27 | Photosynthesis and ultrastructure of photosynthetic apparatus in tomato leaves under elevated temperature. <i>Photosynthetica</i> , 2014, 52, 430-436. | 1.7 | 39 |
| 28 | Grain yield and root characteristics of summer maize (<i>Zea mays</i> L.) under shade stress conditions. <i>Journal of Agronomy and Crop Science</i> , 2017, 203, 562-573. | 3.5 | 38 |
| 29 | Effects of residue management strategies on greenhouse gases and yield under double cropping of winter wheat and summer maize. <i>Science of the Total Environment</i> , 2019, 687, 1138-1146. | 8.0 | 38 |
| 30 | Nitrogen placement at sowing affects root growth, grain yield formation, N use efficiency in maize. <i>Plant and Soil</i> , 2020, 457, 355-373. | 3.7 | 38 |
| 31 | Comparative proteomic analysis reveals that exogenous 6-benzyladenine (6-BA) improves the defense system activity of waterlogged summer maize. <i>BMC Plant Biology</i> , 2020, 20, 44. | 3.6 | 38 |
| 32 | Growth, DNA damage and biochemical toxicity of cyantraniliprole in earthworms (<i>Eisenia fetida</i>). <i>Chemosphere</i> , 2019, 236, 124328. | 8.2 | 37 |
| 33 | Effects of Planting Density and Row Spacing on Canopy Apparent Photosynthesis of High-Yield Summer Corn. <i>Acta Agronomica Sinica</i> (China), 2010, 36, 1226-1235. | 0.3 | 36 |
| 34 | Effects of Duration of Waterlogging at Different Growth Stages on Grain Growth of Summer Maize (<i>Zea mays</i> L.) Under Field Conditions. <i>Journal of Agronomy and Crop Science</i> , 2016, 202, 564-575. | 3.5 | 35 |
| 35 | Ridge tillage improves plant growth and grain yield of waterlogged summer maize. <i>Agricultural Water Management</i> , 2016, 177, 392-399. | 5.6 | 35 |
| 36 | Root physiological adaptations that enhance the grain yield and nutrient use efficiency of maize (<i>Zea</i>) Tj ETQq0 0 0 rgBT /Overlock 10 TF | 5.1 | 32 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Maize/peanut intercropping increases photosynthetic characteristics, ¹³ C-photosynthate distribution, and grain yield of summer maize. <i>Journal of Integrative Agriculture</i> , 2019, 18, 2219-2229. | 3.5 | 31 |
| 38 | Factors affecting summer maize yield under climate change in Shandong Province in the Huanghuaihai Region of China. <i>International Journal of Biometeorology</i> , 2012, 56, 621-629. | 3.0 | 30 |
| 39 | Regulations of 6-Benzyladenine (6-BA) on Leaf Ultrastructure and Photosynthetic Characteristics of Waterlogged Summer Maize. <i>Journal of Plant Growth Regulation</i> , 2017, 36, 743-754. | 5.1 | 29 |
| 40 | The combined application of organic and inorganic fertilizers increases soil organic matter and improves soil microenvironment in wheat-maize field. <i>Journal of Soils and Sediments</i> , 2020, 20, 2395-2404. | 3.0 | 28 |
| 41 | The role of nitrogen in leaf senescence of summer maize and analysis of underlying mechanisms using comparative proteomics. <i>Plant Science</i> , 2015, 233, 72-81. | 3.6 | 27 |
| 42 | Compatibility of chlorantraniliprole with the generalist predator <i>Coccinella septempunctata</i> L. (Coleoptera: Coccinellidae) based toxicity, life-cycle development and population parameters in laboratory microcosms. <i>Chemosphere</i> , 2019, 225, 182-190. | 8.2 | 27 |
| 43 | Physiological and comparative proteomic analysis provides new insights into the effects of shade stress in maize (<i>Zea mays</i> L.). <i>BMC Plant Biology</i> , 2020, 20, 60. | 3.6 | 26 |
| 44 | Exogenous 6-β-benzyladenine improves antioxidative system and carbon metabolism of summer maize waterlogged in the field. <i>Journal of Agronomy and Crop Science</i> , 2018, 204, 175-184. | 3.5 | 25 |
| 45 | Late harvest improves yield and nitrogen utilization efficiency of summer maize. <i>Field Crops Research</i> , 2019, 232, 88-94. | 5.1 | 25 |
| 46 | Responses of carbon metabolism and antioxidant system of summer maize to waterlogging at different stages. <i>Journal of Agronomy and Crop Science</i> , 2018, 204, 505-514. | 3.5 | 24 |
| 47 | Shade stress decreased maize grain yield, dry matter, and nitrogen accumulation. <i>Agronomy Journal</i> , 2020, 112, 2768-2776. | 1.8 | 22 |
| 48 | Lignin metabolism regulates lodging resistance of maize hybrids under varying planting density. <i>Journal of Integrative Agriculture</i> , 2021, 20, 2077-2089. | 3.5 | 21 |
| 49 | Interactive effects of water and controlled release urea on nitrogen metabolism, accumulation, translocation, and yield in summer maize. <i>Die Naturwissenschaften</i> , 2017, 104, 72. | 1.6 | 20 |
| 50 | Grain development and endogenous hormones in summer maize (<i>Zea mays</i> L.) submitted to different light conditions. <i>International Journal of Biometeorology</i> , 2018, 62, 2131-2138. | 3.0 | 19 |
| 51 | Spraying exogenous synthetic cytokinin 6-β-benzyladenine following the waterlogging improves grain growth of waterlogged maize in the field. <i>Journal of Agronomy and Crop Science</i> , 2019, 205, 616-624. | 3.5 | 19 |
| 52 | Nitrapyrin Improves Grain Yield and Nitrogen Use Efficiency of Summer Maize Waterlogged in the Field. <i>Agronomy Journal</i> , 2017, 109, 185-192. | 1.8 | 18 |
| 53 | Effects of urea mixed with nitrapyrin on leaf photosynthetic and senescence characteristics of summer maize (<i>Zea mays</i> L.) waterlogged in the field. <i>Journal of Integrative Agriculture</i> , 2020, 19, 1586-1595. | 3.5 | 16 |
| 54 | Poor development of spike differentiation triggered by lower photosynthesis and carbon partitioning reduces summer maize yield after waterlogging. <i>Crop Journal</i> , 2022, 10, 478-489. | 5.2 | 16 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Modified fertilization management of summer maize (<i>Zea mays</i> L.) in northern China improves grain yield and efficiency of nitrogen use. <i>Journal of Integrative Agriculture</i> , 2015, 14, 1644-1657. | 3.5 | 15 |
| 56 | Proteomics analysis of maize (<i>Zea mays</i> L.) grain based on iTRAQ reveals molecular mechanisms of poor grain filling in inferior grains. <i>Plant Physiology and Biochemistry</i> , 2017, 115, 83-96. | 5.8 | 15 |
| 57 | Response of Maize Root Growth to Residue Management Strategies. <i>Agronomy Journal</i> , 2018, 110, 95-103. | 1.8 | 15 |
| 58 | Effects of insect growth-regulator insecticides on the immature stages of <i>Harmonia axyridis</i> (Coleoptera: Coccinellidae). <i>Ecotoxicology and Environmental Safety</i> , 2018, 164, 665-674. | 6.0 | 15 |
| 59 | Effects of Urea-Ammonium Nitrate Solution on Yield, N ₂ O Emission, and Nitrogen Efficiency of Summer Maize Under Integration of Water and Fertilizer. <i>Frontiers in Plant Science</i> , 2021, 12, 700331. | 3.6 | 15 |
| 60 | Effects of Humic Acid Added to Controlled-Release Fertilizer on Summer Maize Yield, Nitrogen Use Efficiency and Greenhouse Gas Emission. <i>Agriculture (Switzerland)</i> , 2022, 12, 448. | 3.1 | 15 |
| 61 | Effects of Shading in Field on Key Enzymes Involved in Starch Synthesis of Summer Maize. <i>Acta Agronomica Sinica(China)</i> , 2008, 34, 1470-1474. | 0.3 | 14 |
| 62 | Integrated agronomic practices management improved grain formation and regulated endogenous hormone balance in summer maize (<i>Zea mays</i> L.). <i>Journal of Integrative Agriculture</i> , 2020, 19, 1768-1776. | 3.5 | 13 |
| 63 | Responses of photosynthetic characteristics and leaf senescence in summer maize to simultaneous stresses of waterlogging and shading. <i>Crop Journal</i> , 2023, 11, 269-277. | 5.2 | 13 |
| 64 | Morphological and Physiological Characteristics of Maize Roots in Response to Controlled-Release Urea under Different Soil Moisture Conditions. <i>Agronomy Journal</i> , 2019, 111, 1849-1864. | 1.8 | 12 |
| 65 | Crop production kept stable and sustainable with the decrease of nitrogen rate in North China Plain: An economic and environmental assessment over 8 years. <i>Scientific Reports</i> , 2019, 9, 19335. | 3.3 | 11 |
| 66 | Effect of Plant Density on Grain Yield Dry Matter Accumulation and Partitioning in Summer Maize Cultivar Denghai 661. <i>Acta Agronomica Sinica(China)</i> , 2011, 37, 1301-1307. | 0.3 | 11 |
| 67 | Effects of Shading on Photosynthetic Characteristics and Xanthophyll Cycle of Summer Maize in the Field. <i>Acta Agronomica Sinica(China)</i> , 2013, 39, 478. | 0.3 | 11 |
| 68 | Optimized agronomic management practices narrow the yield gap of summer maize through regulating canopy light interception and nitrogen distribution. <i>European Journal of Agronomy</i> , 2022, 137, 126520. | 4.1 | 11 |
| 69 | Responses of the Lodging Resistance of Summer Maize with Different Gene Types to Plant Density. <i>Agronomy</i> , 2022, 12, 10. | 3.0 | 10 |
| 70 | Responses of <i>Harmonia axyridis</i> (Coleoptera: Coccinellidae) to sulfoxaflor exposure. <i>Ecotoxicology and Environmental Safety</i> , 2020, 187, 109849. | 6.0 | 9 |
| 71 | 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. <i>Acta Agronomica Sinica(China)</i> , 2013, 39, 1111. | 0.3 | 8 |
| 72 | How delaying post-silking senescence in lower leaves of maize plants increases carbon and nitrogen accumulation and grain yield. <i>Crop Journal</i> , 2022, 10, 853-863. | 5.2 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Responses of nitrogen efficiency and antioxidant system of summer maize to waterlogging stress under different tillage. PeerJ, 2021, 9, e11834. | 2.0 | 7 |
| 74 | Achieve simultaneous increase in straw resources efficiency and nitrogen efficiency under crop yield stabilization – A case study of NCP in China for up to 8 years. Field Crops Research, 2022, 278, 108431. | 5.1 | 7 |
| 75 | 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 |
| 76 | Endogenous hormones improve the salt tolerance of maize (<i>Zea mays</i> L.) by inducing root architecture and ion balance optimizations. Journal of Agronomy and Crop Science, 2022, 208, 662-674. | 3.5 | 7 |
| 77 | Comparative Yield and Photosynthetic Characteristics of Two Corn (<i>Zea mays</i> L.) Hybrids Differing in Maturity under Different Irrigation Treatments. Agriculture (Switzerland), 2022, 12, 365. | 3.1 | 6 |
| 78 | Comparative proteomic analysis provides new insights into ear leaf senescence of summer maize (<i>Zea</i>) | 3.5 | 5 |
| 79 | Photosynthetic Characteristics of Summer Maize Hybrids with Different Plant Heights. Agronomy Journal, 2017, 109, 1454-1462. | 1.8 | 5 |
| 80 | 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 |
| 81 | 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 |
| 82 | Leaf-nitrogen status affects grain yield formation through modification of spike differentiation in maize. Field Crops Research, 2021, 271, 108238. | 5.1 | 4 |
| 83 | Dry Matter Production and Photosynthesis Characteristics of Three Hybrids of Maize (<i>Zea</i>) | 0.3 | 4 |
| 84 | 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 |
| 85 | 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 |
| 86 | 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 |
| 87 | 6-Benzyladenine increasing subsequent waterlogging-induced waterlogging tolerance of summer maize by increasing hormone signal transduction. Annals of the New York Academy of Sciences, 2021, , . | 3.8 | 2 |
| 88 | 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 |
| 89 | Response of the Soil Microbe Community to Maize Residue Management Strategies Under Double-Cropping Systems. Frontiers in Agronomy, 0, 4, . | 3.3 | 0 |
| 90 | Integrated agronomic practices management decreases soil carbon emissions and increases environmental ecological benefits of summer maize. Pedosphere, 2022, , . | 4.0 | 0 |