# Zhi-Bin Luo

List of Publications by Year
in descending order



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|---|---|---|---|
| 41 papers | 3,331 citations | 201674 27 h-index | 265206 42 g-index |
| 43 all docs | 43 docs citations | 43 times ranked | 3108 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Physiological Characteristics and Transcriptomic Dissection in Two Root Segments with Contrasting Net Fluxes of Ammonium and Nitrate of Poplar Under Low Nitrogen Availability. Plant and Cell Physiology, 2022, 63, 30-44. | 3.1 | 9 |
| 2 | Sulfur metabolism, organic acid accumulation and phytohormone regulation are crucial physiological processes modulating the different tolerance to Pb stress of two contrasting poplars. Tree Physiology, 2022, 42, 1799-1811. | 3.1 | 7 |
| 3 | Genome-Wide Identification and Characterization of Long Noncoding RNAs in Populus Ã— canescens Roots Treated With Different Nitrogen Fertilizers. Frontiers in Plant Science, 2022, 13, . | 3.6 | 3 |
| 4 | Lead exposure-induced defense responses result in low lead translocation from the roots to aerial tissues of two contrasting poplar species. Environmental Pollution, 2021, 271, 116346. | 7.5 | 14 |
| 5 | Dissecting MicroRNAâ€“mRNA Regulatory Networks Underlying Sulfur Assimilation and Cadmium Accumulation in Poplar Leaves. Plant and Cell Physiology, 2020, 61, 1614-1630. | 3.1 | 17 |
| 6 | Physiological characteristics and RNA sequencing in two root zones with contrasting nitrate assimilation of Populus Ã— canescens. Tree Physiology, 2020, 40, 1392-1404. | 3.1 | 9 |
| 7 | Competing Endogenous RNA Networks Underlying Anatomical and Physiological Characteristics of Poplar Wood in Acclimation to Low Nitrogen Availability. Plant and Cell Physiology, 2019, 60, 2478-2495. | 3.1 | 26 |
| 8 | Abscisic acid enhances lead translocation from the roots to the leaves and alleviates its toxicity in Populusâ€‰Ã—â€‰canescens. Journal of Hazardous Materials, 2019, 362, 275-285. | 12.4 | 88 |
| 9 | Physiological and molecular mechanisms of heavy metal accumulation in nonmycorrhizal versus mycorrhizal plants. Plant, Cell and Environment, 2019, 42, 1087-1103. | 5.7 | 113 |
| 10 | Phenylalanine as a nitrogen source induces root growth and nitrogen-use efficiency in Populus Ã— canescens. Tree Physiology, 2018, 38, 66-82. | 3.1 | 38 |
| 11 | Sulfur nutrition stimulates lead accumulation and alleviates its toxicity in Populus deltoides. Tree Physiology, 2018, 38, 1724-1741. | 3.1 | 15 |
| 12 | Phosphorus assimilation of Chinese fir from two provenances during acclimation to changing phosphorus availability. Environmental and Experimental Botany, 2018, 153, 21-34. | 4.2 | 22 |
| 13 | Comparative transcriptomic analysis reveals the roles of overlapping heat-/drought-responsive genes in poplars exposed to high temperature and drought. Scientific Reports, 2017, 7, 43215. | 3.3 | 72 |
| 14 | Uncovering the physiological mechanisms that allow nitrogen availability to affect drought acclimation in Catalpa bungei. Tree Physiology, 2017, 37, 1453-1456. | 3.1 | 10 |
| 15 | Exogenous glutathione enhances cadmium accumulation and alleviates its toxicity in Populus Ã— canescens. Tree Physiology, 2017, 37, 1697-1712. | 3.1 | 79 |
| 16 | Physiological and transcriptional regulation in poplar roots and leaves during acclimation to high temperature and drought. Physiologia Plantarum, 2016, 157, 38-53. | 5.2 | 29 |
| 17 | Heavy metal accumulation and signal transduction in herbaceous and woody plants: Paving the way for enhancing phytoremediation efficiency. Biotechnology Advances, 2016, 34, 1131-1148. | 11.7 | 283 |
| 18 | The conserved salt-responsive genes in the roots of PopulusÃ—canescens and Arabidopsis thaliana. Environmental and Experimental Botany, 2016, 129, 48-56. | 4.2 | 23 |

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|---|---|---|---|
| 19 | Phosphorus and nitrogen physiology of two contrasting poplar genotypes when exposed to phosphorus and/or nitrogen starvation. Tree Physiology, 2016, 36, 22-38. | 3.1 | 103 |
| 20 | Overexpression of bacterial Î³â€glutamylcysteine synthetase mediates changes in cadmium influx, allocation and detoxification in poplar. New Phytologist, 2015, 205, 240-254. | 7.3 | 214 |
| 21 | Global poplar root and leaf transcriptomes reveal links between growth and stress responses under nitrogen starvation and excess. Tree Physiology, 2015, 35, 1283-1302. | 3.1 | 131 |
| 22 | Exogenous abscisic acid alleviates zinc uptake and accumulation in <scp>P</scp>opulusâ€‰Ã—â€‰canescens exposed to excess zinc. Plant, Cell and Environment, 2015, 38, 207-223. | 5.7 | 129 |
| 23 | Ectomycorrhizas with <scp>P</scp>axillus involutus enhance cadmium uptake and tolerance in <scp>P</scp>opulusâ€‰Ã—â€‰canescens. Plant, Cell and Environment, 2014, 37, 627-642. | 5.7 | 118 |
| 24 | The role of ectomycorrhizas in heavy metal stress tolerance of host plants. Environmental and Experimental Botany, 2014, 108, 47-62. | 4.2 | 125 |
| 25 | Anatomical, physiological and transcriptional responses of two contrasting poplar genotypes to drought and reâ€watering. Physiologia Plantarum, 2014, 151, 480-494. | 5.2 | 72 |
| 26 | Net fluxes of ammonium and nitrate in association with H+ fluxes in fine roots of Populus popularis. Planta, 2013, 237, 919-931. | 3.2 | 112 |
| 27 | Changes in carbon, nutrients and stoichiometric relations under different soil depths, plant tissues and ages in black locust plantations. Acta Physiologiae Plantarum, 2013, 35, 2951-2964. | 2.1 | 48 |
| 28 | Nitrogen metabolism of two contrasting poplar species during acclimation to limiting nitrogen availability. Journal of Experimental Botany, 2013, 64, 4207-4224. | 4.8 | 180 |
| 29 | Cadmium tolerance in six poplar species. Environmental Science and Pollution Research, 2013, 20, 163-174. | 5.3 | 157 |
| 30 | A Transcriptomic Network Underlies Microstructural and Physiological Responses to Cadmium in Populus Ã— canescens Â Â Â. Plant Physiology, 2013, 162, 424-439. | 4.8 | 187 |
| 31 | N-fertilization has different effects on the growth, carbon and nitrogen physiology, and wood properties of slow- and fast-growing Populus species. Journal of Experimental Botany, 2012, 63, 6173-6185. | 4.8 | 131 |
| 32 | Net cadmium flux and accumulation reveal tissueâ€specific oxidative stress and detoxification in Populus Ã— canescens. Physiologia Plantarum, 2011, 143, 50-63. | 5.2 | 194 |
| 33 | The ectomycorrhizal fungus (Paxillus involutus) modulates leaf physiology of poplar towards improved salt tolerance. Environmental and Experimental Botany, 2011, 72, 304-311. | 4.2 | 55 |
| 34 | The importance of slope aspect and stand age on the photosynthetic carbon fixation capacity of forest: a case study with black locust (Robinia pseudoacacia) plantations on the Loess Plateau. Acta Physiologiae Plantarum, 2011, 33, 419-429. | 2.1 | 23 |
| 35 | Wood composition and energy content in a poplar short rotation plantation on fertilized agricultural land in a future CO<sub>2</sub> atmosphere. Global Change Biology, 2009, 15, 38-47. | 9.5 | 66 |
| 36 | Ectomycorrhizal fungus (Paxillus involutus) and hydrogels affect performance of Populus euphratica exposed to drought stress. Annals of Forest Science, 2009, 66, 106-106. | 2.0 | 52 |

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|---|---|---|---|
| 37 | Upgrading Root Physiology for Stress Tolerance by Ectomycorrhizas: Insights from Metabolite and Transcriptional Profiling into Reprogramming for Stress Anticipation. Plant Physiology, 2009, 151, 1902-1917. | 4.8 | 186 |
| 38 | Carbon-based secondary metabolites and internal nitrogen pools in Populus nigra under Free Air CO2 Enrichment (FACE) and nitrogen fertilisation. Plant and Soil, 2008, 304, 45-57. | 3.7 | 66 |
| 39 | Carbon partitioning to mobile and structural fractions in poplar wood under elevated CO2 (EUROFACE) and N fertilization. Global Change Biology, 2006, 12, 272-283. | 9.5 | 41 |
| 40 | Influence of free air CO2 enrichment (EUROFACE) and nitrogen fertilisation on the anatomy of juvenile wood of three poplar species after coppicing. Trees - Structure and Function, 2005, 19, 109-118. | 1.9 | 68 |
| 41 | Identification and Functional Prediction of Poplar Root circRNAs Involved in Treatment With Different Forms of Nitrogen. Frontiers in Plant Science, 0, 13, . | 3.6 | 2 |