

Zhi-Bin Luo

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

3,331
citations

201674

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265206

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docs citations

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times ranked

3108
citing authors

#	ARTICLE	IF	CITATIONS
1	Heavy metal accumulation and signal transduction in herbaceous and woody plants: Paving the way for enhancing phytoremediation efficiency. <i>Biotechnology Advances</i> , 2016, 34, 1131-1148.	11.7	283
2	Overexpression of bacterial γ -glutamylcysteine synthetase mediates changes in cadmium influx, allocation and detoxification in poplar. <i>New Phytologist</i> , 2015, 205, 240-254.	7.3	214
3	Net cadmium flux and accumulation reveal tissue-specific oxidative stress and detoxification in <i>Populus trichocarpa</i> . <i>Physiologia Plantarum</i> , 2011, 143, 50-63.	5.2	194
4	A Transcriptomic Network Underlies Microstructural and Physiological Responses to Cadmium in <i>Populus trichocarpa</i> . <i>Plant Physiology</i> , 2013, 162, 424-439.	4.8	187
5	Upgrading Root Physiology for Stress Tolerance by Ectomycorrhizas: Insights from Metabolite and Transcriptional Profiling into Reprogramming for Stress Anticipation. <i>Plant Physiology</i> , 2009, 151, 1902-1917.	4.8	186
6	Nitrogen metabolism of two contrasting poplar species during acclimation to limiting nitrogen availability. <i>Journal of Experimental Botany</i> , 2013, 64, 4207-4224.	4.8	180
7	Cadmium tolerance in six poplar species. <i>Environmental Science and Pollution Research</i> , 2013, 20, 163-174.	5.3	157
8	N-fertilization has different effects on the growth, carbon and nitrogen physiology, and wood properties of slow- and fast-growing <i>Populus</i> species. <i>Journal of Experimental Botany</i> , 2012, 63, 6173-6185.	4.8	131
9	Global poplar root and leaf transcriptomes reveal links between growth and stress responses under nitrogen starvation and excess. <i>Tree Physiology</i> , 2015, 35, 1283-1302.	3.1	131
10	Exogenous abscisic acid alleviates zinc uptake and accumulation in <i>Populus trichocarpa</i> exposed to excess zinc. <i>Plant, Cell and Environment</i> , 2015, 38, 207-223.	5.7	129
11	The role of ectomycorrhizas in heavy metal stress tolerance of host plants. <i>Environmental and Experimental Botany</i> , 2014, 108, 47-62.	4.2	125
12	Ectomycorrhizas with <i>Populus axillaris</i> enhance cadmium uptake and tolerance in <i>Populus trichocarpa</i> . <i>Plant, Cell and Environment</i> , 2014, 37, 627-642.	5.7	118
13	Physiological and molecular mechanisms of heavy metal accumulation in nonmycorrhizal versus mycorrhizal plants. <i>Plant, Cell and Environment</i> , 2019, 42, 1087-1103.	5.7	113
14	Net fluxes of ammonium and nitrate in association with H ⁺ fluxes in fine roots of <i>Populus popularis</i> . <i>Planta</i> , 2013, 237, 919-931.	3.2	112
15	Phosphorus and nitrogen physiology of two contrasting poplar genotypes when exposed to phosphorus and/or nitrogen starvation. <i>Tree Physiology</i> , 2016, 36, 22-38.	3.1	103
16	Abscisic acid enhances lead translocation from the roots to the leaves and alleviates its toxicity in <i>Populus trichocarpa</i> . <i>Journal of Hazardous Materials</i> , 2019, 362, 275-285.	12.4	88
17	Exogenous glutathione enhances cadmium accumulation and alleviates its toxicity in <i>Populus trichocarpa</i> . <i>Tree Physiology</i> , 2017, 37, 1697-1712.	3.1	79
18	Anatomical, physiological and transcriptional responses of two contrasting poplar genotypes to drought and rewatering. <i>Physiologia Plantarum</i> , 2014, 151, 480-494.	5.2	72

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19	Comparative transcriptomic analysis reveals the roles of overlapping heat-/drought-responsive genes in poplars exposed to high temperature and drought. <i>Scientific Reports</i> , 2017, 7, 43215.	3.3	72
20	Influence of free air CO ₂ enrichment (EUROFACE) and nitrogen fertilisation on the anatomy of juvenile wood of three poplar species after coppicing. <i>Trees - Structure and Function</i> , 2005, 19, 109-118.	1.9	68
21	Carbon-based secondary metabolites and internal nitrogen pools in <i>Populus nigra</i> under Free Air CO ₂ Enrichment (FACE) and nitrogen fertilisation. <i>Plant and Soil</i> , 2008, 304, 45-57.	3.7	66
22	Wood composition and energy content in a poplar short rotation plantation on fertilized agricultural land in a future CO ₂ atmosphere. <i>Global Change Biology</i> , 2009, 15, 38-47.	9.5	66
23	The ectomycorrhizal fungus (<i>Paxillus involutus</i>) modulates leaf physiology of poplar towards improved salt tolerance. <i>Environmental and Experimental Botany</i> , 2011, 72, 304-311.	4.2	55
24	Ectomycorrhizal fungus (<i>Paxillus involutus</i>) and hydrogels affect performance of <i>Populus euphratica</i> exposed to drought stress. <i>Annals of Forest Science</i> , 2009, 66, 106-106.	2.0	52
25	Changes in carbon, nutrients and stoichiometric relations under different soil depths, plant tissues and ages in black locust plantations. <i>Acta Physiologiae Plantarum</i> , 2013, 35, 2951-2964.	2.1	48
26	Carbon partitioning to mobile and structural fractions in poplar wood under elevated CO ₂ (EUROFACE) and N fertilization. <i>Global Change Biology</i> , 2006, 12, 272-283.	9.5	41
27	Phenylalanine as a nitrogen source induces root growth and nitrogen-use efficiency in <i>Populus Æ—canescens</i> . <i>Tree Physiology</i> , 2018, 38, 66-82.	3.1	38
28	Physiological and transcriptional regulation in poplar roots and leaves during acclimation to high temperature and drought. <i>Physiologia Plantarum</i> , 2016, 157, 38-53.	5.2	29
29	Competing Endogenous RNA Networks Underlying Anatomical and Physiological Characteristics of Poplar Wood in Acclimation to Low Nitrogen Availability. <i>Plant and Cell Physiology</i> , 2019, 60, 2478-2495.	3.1	26
30	The importance of slope aspect and stand age on the photosynthetic carbon fixation capacity of forest: a case study with black locust (<i>Robinia pseudoacacia</i>) plantations on the Loess Plateau. <i>Acta Physiologiae Plantarum</i> , 2011, 33, 419-429.	2.1	23
31	The conserved salt-responsive genes in the roots of <i>Populus Æ—canescens</i> and <i>Arabidopsis thaliana</i> . <i>Environmental and Experimental Botany</i> , 2016, 129, 48-56.	4.2	23
32	Phosphorus assimilation of Chinese fir from two provenances during acclimation to changing phosphorus availability. <i>Environmental and Experimental Botany</i> , 2018, 153, 21-34.	4.2	22
33	Dissecting MicroRNAâ€™mRNA Regulatory Networks Underlying Sulfur Assimilation and Cadmium Accumulation in Poplar Leaves. <i>Plant and Cell Physiology</i> , 2020, 61, 1614-1630.	3.1	17
34	Sulfur nutrition stimulates lead accumulation and alleviates its toxicity in <i>Populus deltoides</i> . <i>Tree Physiology</i> , 2018, 38, 1724-1741.	3.1	15
35	Lead exposure-induced defense responses result in low lead translocation from the roots to aerial tissues of two contrasting poplar species. <i>Environmental Pollution</i> , 2021, 271, 116346.	7.5	14
36	Uncovering the physiological mechanisms that allow nitrogen availability to affect drought acclimation in <i>Catalpa bungei</i> . <i>Tree Physiology</i> , 2017, 37, 1453-1456.	3.1	10

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37	Physiological characteristics and RNA sequencing in two root zones with contrasting nitrate assimilation of <i>Populus × canescens</i> . <i>Tree Physiology</i> , 2020, 40, 1392-1404.	3.1	9
38	Physiological Characteristics and Transcriptomic Dissection in Two Root Segments with Contrasting Net Fluxes of Ammonium and Nitrate of Poplar Under Low Nitrogen Availability. <i>Plant and Cell Physiology</i> , 2022, 63, 30-44.	3.1	9
39	Sulfur metabolism, organic acid accumulation and phytohormone regulation are crucial physiological processes modulating the different tolerance to Pb stress of two contrasting poplars. <i>Tree Physiology</i> , 2022, 42, 1799-1811.	3.1	7
40	Genome-Wide Identification and Characterization of Long Noncoding RNAs in <i>Populus × canescens</i> Roots Treated With Different Nitrogen Fertilizers. <i>Frontiers in Plant Science</i> , 2022, 13, .	3.6	3
41	Identification and Functional Prediction of Poplar Root circRNAs Involved in Treatment With Different Forms of Nitrogen. <i>Frontiers in Plant Science</i> , 0, 13, .	3.6	2