Yong-Jiang Zhang

List of Publications by Year
in descending order

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63	1,586	279798	330143
papers	citations	23 h-index	37 g-index

66	66	66	1879
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stomatal Closure, Basal Leaf Embolism, and Shedding Protect the Hydraulic Integrity of Grape Stems. Plant Physiology, 2017, 174, 764-775.	4.8	158
2	Midday stomatal conductance is more related to stem rather than leaf water status in subtropical deciduous and evergreen broadleaf trees. Plant, Cell and Environment, 2013, 36, 149-158.	5.7	110
3	Sizeâ€dependent mortality in a Neotropical savanna tree: the role of heightâ€related adjustments in hydraulic architecture and carbon allocation. Plant, Cell and Environment, 2009, 32, 1456-1466.	5.7	96
4	Reversible Leaf Xylem Collapse: A Potential â€œCircuit Breakerâ€•against Cavitation Â. Plant Physiology, 2016, 172, 2261-2274.	4.8	83
5	The maximum height of grasses is determined by roots. Ecology Letters, 2012, 15, 666-672.	6.4	66
6	Recovery of diurnal depression of leaf hydraulic conductance in a subtropical woody bamboo species: embolism refilling by nocturnal root pressure. Tree Physiology, 2012, 32, 414-422.	3.1	59
7	Hydraulic redistribution in dwarf Rhizophora mangle trees driven by interstitial soil water salinity gradients: impacts on hydraulic architecture and gas exchange. Tree Physiology, 2009, 29, 697-705.	3.1	54
8	Strong leaf morphological, anatomical, and physiological responses of a subtropical woody bamboo (Sinarundinaria nitida) to contrasting light environments. Plant Ecology, 2014, 215, 97-109.	1.6	54
9	Role of Biochar in Improving Sandy Soil Water Retention and Resilience to Drought. Water (Switzerland), 2021, 13, 407.	2.7	44
10	High NDVI and Potential Canopy Photosynthesis of South American Subtropical Forests despite Seasonal Changes in Leaf Area Index and Air Temperature. Forests, 2014, 5, 287-308.	2.1	43
11	Extending the generality of leaf economic design principles in the cycads, an ancient lineage. New Phytologist, 2015, 206, 817-829.	7.3	41
12	Extended leaf senescence promotes carbon gain and nutrient resorption: importance of maintaining winter photosynthesis in subtropical forests. Oecologia, 2013, 173, 721-730.	2.0	40
13	Reversible Deformation of Transfusion Tracheids in Taxus baccata Is Associated with a Reversible Decrease in Leaf Hydraulic Conductance. Plant Physiology, 2014, 165, 1557-1565.	4.8	39
14	Quantifying vulnerability to embolism in tropical trees and lianas using five methods: can discrepancies be explained by xylem structural traits?. New Phytologist, 2021, 229, 805-819.	7.3	36
15	Water relations and gas exchange of fan bryophytes and their adaptations to microhabitats in an Asian subtropical montane cloud forest. Journal of Plant Research, 2015, 128, 573-584.	2.4	34
16	An observational study of the carbon-sink strength of East Asian subtropical evergreen forests. Environmental Research Letters, 2012, 7, 044017.	5.2	33
17	More sensitive response of crown conductance to VPD and larger water consumption in tropical evergreen than in deciduous broadleaf timber trees. Agricultural and Forest Meteorology, 2017, 247, 399-407.	4.8	32
18	Physiological regulation and efficient xylem water transport regulate diurnal water and carbon balances of tropical lianas. Functional Ecology, 2017, 31, 306-317.	3.6	32

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19	Hydraulic prediction of droughtâ€induced plant dieback and topâ€kill depends on leaf habit and growth form. Ecology Letters, 2021, 24, 2350-2363.	6.4	31
20	Soil respiration in an oldâ€growth subtropical forest: Patterns, components, and controls. Journal of Geophysical Research D: Atmospheres, 2013, 118, 2981-2990.	3.3	30
21	Freezing resistance in Patagonian woody shrubs: the role of cell wall elasticity and stem vessel size. Tree Physiology, 2016, 36, 1007-1018.	3.1	29
22	Divergences in hydraulic architecture form an important basis for niche differentiation between diploid and polyploid Betula species in NE China. Tree Physiology, 2017, 37, 604-616.	3.1	27
23	Speed versus endurance tradeoff in plants: Leaves with higher photosynthetic rates show stronger seasonal declines. Scientific Reports, 2017, 7, 42085.	3.3	26
24	The physiological basis for estimating photosynthesis from Chla fluorescence. New Phytologist, 2022, 234, 1206-1219.	7.3	26
25	The Heterogeneity and Spatial Patterning of Structure and Physiology across the Leaf Surface in Giant Leaves of Alocasia macrorrhiza. PLoS ONE, 2013, 8, e66016.	2.5	25
26	Determinants of water circulation in a woody bamboo species: afternoon use and night-time recharge of culm water storage. Tree Physiology, 2015, 35, 964-974.	3.1	21
27	Differential determinants of growth rates in subtropical evergreen and deciduous juvenile trees: carbon gain, hydraulics and nutrient-use efficiencies. Tree Physiology, 2021, 41, 12-23.	3.1	21
28	Seasonal dynamics in photosynthesis of woody plants at the northern limit of Asian tropics: potential role of fog in maintaining tropical rainforests and agriculture in Southwest China. Tree Physiology, 2014, 34, 1069-1078.	3.1	19
29	Carbon Economy of Subtropical Forests. Tree Physiology, 2016, , 337-355.	2.5	18
30	Climate Change Patterns of Wild Blueberry Fields in Downeast, Maine over the Past 40 Years. Water (Switzerland), 2021, 13, 594.	2.7	18
31	Leaf trichomes of Dendrobium species (epiphytic orchids) in relation to foliar water uptake, leaf surface wettability, and water balance. Environmental and Experimental Botany, 2021, 190, 104568.	4.2	18
32	Compound leaves are associated with high hydraulic conductance and photosynthetic capacity: evidence from trees in Northeast China. Tree Physiology, 2019, 39, 729-739.	3.1	17
33	High mercury accumulation in two subtropical evergreen forests in South China and potential determinants. Journal of Environmental Management, 2016, 183, 488-496.	7.8	16
34	Spatial-temporal differentiations in water use of coexisting trees from a subtropical evergreen broadleaved forest in Southwest China. Agricultural and Forest Meteorology, 2022, 316, 108862.	4.8	15
35	Facing Shortage or Excessive Light: How Tropical and Subtropical Trees Adjust Their Photosynthetic Behavior and Life History Traits to a Dynamic Forest Environment. Tree Physiology, 2016, , 319-336.	2.5	14
36	Response of four evergreen savanna shrubs to an incidence of extreme drought: high embolism resistance, branch shedding and maintenance of nonstructural carbohydrates. Tree Physiology, 2022, 42, 740-753.	3.1	12

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37	Visualizing Embolism Propagation in Gas-Injected Leaves. Plant Physiology, 2019, 180, 874-881.	4.8	11
38	The stability of xylem water under tension: a long, slow spin proves illuminating. Plant, Cell and Environment, 2014, 37, 2652-2653.	5.7	9
39	Is Drought Increasing in Maine and Hurting Wild Blueberry Production?. Climate, 2021, 9, 178.	2.8	9
40	Canopy water status and photosynthesis of tropical trees are associated with trunk sapwood hydraulic properties. Plant Physiology and Biochemistry, 2019, 139, 724-730.	5.8	8
41	The effects of intervessel pit characteristics on xylem hydraulic efficiency and photosynthesis in hemiepiphytic and nonâ€hemiepiphytic Ficus species. Physiologia Plantarum, 2019, 167, 661-675.	5.2	8
42	Vessel-length determination using silicone and air injection: are there artifacts?. Tree Physiology, 2019, 39, 1783-1791.	3.1	7
43	Variation in Xylem Hydraulic Structure and Function of Two Mangrove Species across a Latitudinal Gradient in Eastern Australia. Water (Switzerland), 2021, 13, 850.	2.7	7
44	Predicting Water Stress in Wild Blueberry Fields Using Airborne Visible and Near Infrared Imaging Spectroscopy. Remote Sensing, 2021, 13, 1425.	4.0	7
45	Will Climate Warming Alter Biotic Stresses in Wild Lowbush Blueberries?. Agronomy, 2022, 12, 371.	3.0	7
46	High Variation in Yield among Wild Blueberry Genotypes: Can Yield Be Predicted by Leaf and Stem Functional Traits?. Agronomy, 2022, 12, 617.	3.0	7
47	Higher water and nutrient use efficiencies in savanna than in rainforest lianas result in no difference in photosynthesis. Tree Physiology, 2022, 42, 145-159.	3.1	6
48	Are Wild Blueberries a Crop with Low Photosynthetic Capacity? Chamber-Size Effects in Measuring Photosynthesis. Agronomy, 2021, 11, 1572.	3.0	6
49	Winter Photosynthesis of Evergreen Broadleaf Trees from a Montane Cloud Forest in Subtropical China. Advanced Topics in Science and Technology in China, 2013, , 812-817.	0.1	6
50	Growth-Climate Relationships and Long-Term Growth Trends of the Tropical Forest Tree Choerospondias axillaris (Anacardiaceae) in East-Central Thailand. Forests, 2021, 12, 1655.	2.1	6
51	Studies on forest ecosystem physiology: marginal water-use efficiency of a tropical, seasonal, evergreen forest in Thailand. Journal of Forestry Research, 2019, 30, 2163-2173.	3.6	5
52	The hydraulic architecture of an arborescent monocot: ontogenyâ€related adjustments in vessel size and leaf area compensate for increased resistance. New Phytologist, 2021, 231, 273-284.	7.3	5
53	Are Foliar Fertilizers Beneficial to Growth and Yield of Wild Lowbush Blueberries?. Agronomy, 2022, 12, 470.	3.0	5
54	Linking tree water use efficiency with calcium and precipitation. Tree Physiology, 2022, 42, 2419-2431.	3.1	5

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55	Contrasting Water Use, Stomatal Regulation, Embolism Resistance, and Drought Responses of Two Co-Occurring Mangroves. Water (Switzerland), 2021, 13, 1945.	2.7	4
56	Strawberry Growth under Current and Future Rainfall Scenarios. Water (Switzerland), 2022, 14, 313.	2.7	4
57	Drought timing and species growth phenology determine intra-annual recovery of tree height and diameter growth. AoB PLANTS, 2022, 14, plac012.	2.3	4
58	Overlapping Water and Nutrient Use Efficiencies and Carbon Assimilation between Coexisting Simple- and Compound-Leaved Trees from a Valley Savanna. Water (Switzerland), 2020, 12, 3037.	2.7	3
59	Dry-Season Fog Water Utilization by Epiphytes in a Subtropical Montane Cloud Forest of Southwest China. Water (Switzerland), 2021, 13, 3237.	2.7	3
60	Leaf Venation Architecture in Relation to Leaf Size Across Leaf Habits and Vein Types in Subtropical Woody Plants. Frontiers in Plant Science, 2022, 13, .	3.6	3
61	Interactions of Cellulose Nanofibrils with a Foliar Fertilizer and Wild Blueberry Leaves: Potential to Enhance Fruit Yield. ACS Agricultural Science and Technology, 2022, 2, 712-718.	2.3	3
62	Cool-dry season depression in gas exchange of canopy leaves and water flux of tropical trees at the northern limit of Asian tropics. Plant Ecology, 2022, 223, 171-183.	1.6	1
63	Seasonal Climate Trends across the Wild Blueberry Barrens of Maine, USA. Atmosphere, 2022, 13, 690.	2.3	0