

Yong-Jiang Zhang

List of Publications by Year in descending order

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63
papers

1,586
citations

279798

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docs citations

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times ranked

1879
citing authors

#	ARTICLE	IF	CITATIONS
1	Higher water and nutrient use efficiencies in savanna than in rainforest lianas result in no difference in photosynthesis. <i>Tree Physiology</i> , 2022, 42, 145-159.	3.1	6
2	Cool-dry season depression in gas exchange of canopy leaves and water flux of tropical trees at the northern limit of Asian tropics. <i>Plant Ecology</i> , 2022, 223, 171-183.	1.6	1
3	Response of four evergreen savanna shrubs to an incidence of extreme drought: high embolism resistance, branch shedding and maintenance of nonstructural carbohydrates. <i>Tree Physiology</i> , 2022, 42, 740-753.	3.1	12
4	Strawberry Growth under Current and Future Rainfall Scenarios. <i>Water (Switzerland)</i> , 2022, 14, 313.	2.7	4
5	Will Climate Warming Alter Biotic Stresses in Wild Lowbush Blueberries?. <i>Agronomy</i> , 2022, 12, 371.	3.0	7
6	Spatial-temporal differentiations in water use of coexisting trees from a subtropical evergreen broadleaved forest in Southwest China. <i>Agricultural and Forest Meteorology</i> , 2022, 316, 108862.	4.8	15
7	Are Foliar Fertilizers Beneficial to Growth and Yield of Wild Lowbush Blueberries?. <i>Agronomy</i> , 2022, 12, 470.	3.0	5
8	Drought timing and species growth phenology determine intra-annual recovery of tree height and diameter growth. <i>AoB PLANTS</i> , 2022, 14, plac012.	2.3	4
9	High Variation in Yield among Wild Blueberry Genotypes: Can Yield Be Predicted by Leaf and Stem Functional Traits?. <i>Agronomy</i> , 2022, 12, 617.	3.0	7
10	The physiological basis for estimating photosynthesis from Chl <i>a</i> fluorescence. <i>New Phytologist</i> , 2022, 234, 1206-1219.	7.3	26
11	Seasonal Climate Trends across the Wild Blueberry Barrens of Maine, USA. <i>Atmosphere</i> , 2022, 13, 690.	2.3	0
12	Leaf Venation Architecture in Relation to Leaf Size Across Leaf Habits and Vein Types in Subtropical Woody Plants. <i>Frontiers in Plant Science</i> , 2022, 13, .	3.6	3
13	Linking tree water use efficiency with calcium and precipitation. <i>Tree Physiology</i> , 2022, 42, 2419-2431.	3.1	5
14	Interactions of Cellulose Nanofibrils with a Foliar Fertilizer and Wild Blueberry Leaves: Potential to Enhance Fruit Yield. <i>ACS Agricultural Science and Technology</i> , 2022, 2, 712-718.	2.3	3
15	Differential determinants of growth rates in subtropical evergreen and deciduous juvenile trees: carbon gain, hydraulics and nutrient-use efficiencies. <i>Tree Physiology</i> , 2021, 41, 12-23.	3.1	21
16	Quantifying vulnerability to embolism in tropical trees and lianas using five methods: can discrepancies be explained by xylem structural traits?. <i>New Phytologist</i> , 2021, 229, 805-819.	7.3	36
17	Role of Biochar in Improving Sandy Soil Water Retention and Resilience to Drought. <i>Water (Switzerland)</i> , 2021, 13, 407.	2.7	44
18	Climate Change Patterns of Wild Blueberry Fields in Downeast, Maine over the Past 40 Years. <i>Water (Switzerland)</i> , 2021, 13, 594.	2.7	18

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19	Variation in Xylem Hydraulic Structure and Function of Two Mangrove Species across a Latitudinal Gradient in Eastern Australia. <i>Water (Switzerland)</i> , 2021, 13, 850.	2.7	7
20	The hydraulic architecture of an arborescent monocot: ontogeny-related adjustments in vessel size and leaf area compensate for increased resistance. <i>New Phytologist</i> , 2021, 231, 273-284.	7.3	5
21	Predicting Water Stress in Wild Blueberry Fields Using Airborne Visible and Near Infrared Imaging Spectroscopy. <i>Remote Sensing</i> , 2021, 13, 1425.	4.0	7
22	Contrasting Water Use, Stomatal Regulation, Embolism Resistance, and Drought Responses of Two Co-Occurring Mangroves. <i>Water (Switzerland)</i> , 2021, 13, 1945.	2.7	4
23	Are Wild Blueberries a Crop with Low Photosynthetic Capacity? Chamber-Size Effects in Measuring Photosynthesis. <i>Agronomy</i> , 2021, 11, 1572.	3.0	6
24	Hydraulic prediction of drought-induced plant dieback and topkill depends on leaf habit and growth form. <i>Ecology Letters</i> , 2021, 24, 2350-2363.	6.4	31
25	Leaf trichomes of <i>Dendrobium</i> species (epiphytic orchids) in relation to foliar water uptake, leaf surface wettability, and water balance. <i>Environmental and Experimental Botany</i> , 2021, 190, 104568.	4.2	18
26	Growth-Climate Relationships and Long-Term Growth Trends of the Tropical Forest Tree <i>Choerospondias axillaris</i> (Anacardiaceae) in East-Central Thailand. <i>Forests</i> , 2021, 12, 1655.	2.1	6
27	Dry-Season Fog Water Utilization by Epiphytes in a Subtropical Montane Cloud Forest of Southwest China. <i>Water (Switzerland)</i> , 2021, 13, 3237.	2.7	3
28	Is Drought Increasing in Maine and Hurting Wild Blueberry Production?. <i>Climate</i> , 2021, 9, 178.	2.8	9
29	Overlapping Water and Nutrient Use Efficiencies and Carbon Assimilation between Coexisting Simple- and Compound-Leaved Trees from a Valley Savanna. <i>Water (Switzerland)</i> , 2020, 12, 3037.	2.7	3
30	Compound leaves are associated with high hydraulic conductance and photosynthetic capacity: evidence from trees in Northeast China. <i>Tree Physiology</i> , 2019, 39, 729-739.	3.1	17
31	Vessel-length determination using silicone and air injection: are there artifacts?. <i>Tree Physiology</i> , 2019, 39, 1783-1791.	3.1	7
32	Canopy water status and photosynthesis of tropical trees are associated with trunk sapwood hydraulic properties. <i>Plant Physiology and Biochemistry</i> , 2019, 139, 724-730.	5.8	8
33	Visualizing Embolism Propagation in Gas-Injected Leaves. <i>Plant Physiology</i> , 2019, 180, 874-881.	4.8	11
34	The effects of intervessel pit characteristics on xylem hydraulic efficiency and photosynthesis in hemiepiphytic and non-hemiepiphytic <i>Ficus</i> species. <i>Physiologia Plantarum</i> , 2019, 167, 661-675.	5.2	8
35	Studies on forest ecosystem physiology: marginal water-use efficiency of a tropical, seasonal, evergreen forest in Thailand. <i>Journal of Forestry Research</i> , 2019, 30, 2163-2173.	3.6	5
36	Speed versus endurance tradeoff in plants: Leaves with higher photosynthetic rates show stronger seasonal declines. <i>Scientific Reports</i> , 2017, 7, 42085.	3.3	26

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37	More sensitive response of crown conductance to VPD and larger water consumption in tropical evergreen than in deciduous broadleaf timber trees. <i>Agricultural and Forest Meteorology</i> , 2017, 247, 399-407.	4.8	32
38	Divergences in hydraulic architecture form an important basis for niche differentiation between diploid and polyploid <i>Betula</i> species in NE China. <i>Tree Physiology</i> , 2017, 37, 604-616.	3.1	27
39	Stomatal Closure, Basal Leaf Embolism, and Shedding Protect the Hydraulic Integrity of Grape Stems. <i>Plant Physiology</i> , 2017, 174, 764-775.	4.8	158
40	Physiological regulation and efficient xylem water transport regulate diurnal water and carbon balances of tropical lianas. <i>Functional Ecology</i> , 2017, 31, 306-317.	3.6	32
41	Reversible Leaf Xylem Collapse: A Potential "Circuit Breaker" against Cavitation. <i>Plant Physiology</i> , 2016, 172, 2261-2274.	4.8	83
42	Carbon Economy of Subtropical Forests. <i>Tree Physiology</i> , 2016, , 337-355.	2.5	18
43	High mercury accumulation in two subtropical evergreen forests in South China and potential determinants. <i>Journal of Environmental Management</i> , 2016, 183, 488-496.	7.8	16
44	Freezing resistance in Patagonian woody shrubs: the role of cell wall elasticity and stem vessel size. <i>Tree Physiology</i> , 2016, 36, 1007-1018.	3.1	29
45	Facing Shortage or Excessive Light: How Tropical and Subtropical Trees Adjust Their Photosynthetic Behavior and Life History Traits to a Dynamic Forest Environment. <i>Tree Physiology</i> , 2016, , 319-336.	2.5	14
46	Extending the generality of leaf economic design principles in the cycads, an ancient lineage. <i>New Phytologist</i> , 2015, 206, 817-829.	7.3	41
47	Determinants of water circulation in a woody bamboo species: afternoon use and night-time recharge of culm water storage. <i>Tree Physiology</i> , 2015, 35, 964-974.	3.1	21
48	Water relations and gas exchange of fan bryophytes and their adaptations to microhabitats in an Asian subtropical montane cloud forest. <i>Journal of Plant Research</i> , 2015, 128, 573-584.	2.4	34
49	High NDVI and Potential Canopy Photosynthesis of South American Subtropical Forests despite Seasonal Changes in Leaf Area Index and Air Temperature. <i>Forests</i> , 2014, 5, 287-308.	2.1	43
50	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. <i>Tree Physiology</i> , 2014, 34, 1069-1078.	3.1	19
51	Reversible Deformation of Transfusion Tracheids in <i>Taxus baccata</i> Is Associated with a Reversible Decrease in Leaf Hydraulic Conductance. <i>Plant Physiology</i> , 2014, 165, 1557-1565.	4.8	39
52	The stability of xylem water under tension: a long, slow spin proves illuminating. <i>Plant, Cell and Environment</i> , 2014, 37, 2652-2653.	5.7	9
53	Strong leaf morphological, anatomical, and physiological responses of a subtropical woody bamboo (<i>Sinarundinaria nitida</i>) to contrasting light environments. <i>Plant Ecology</i> , 2014, 215, 97-109.	1.6	54
54	Midday stomatal conductance is more related to stem rather than leaf water status in subtropical deciduous and evergreen broadleaf trees. <i>Plant, Cell and Environment</i> , 2013, 36, 149-158.	5.7	110

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55	Extended leaf senescence promotes carbon gain and nutrient resorption: importance of maintaining winter photosynthesis in subtropical forests. <i>Oecologia</i> , 2013, 173, 721-730.	2.0	40
56	Soil respiration in an old-growth subtropical forest: Patterns, components, and controls. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2981-2990.	3.3	30
57	The Heterogeneity and Spatial Patterning of Structure and Physiology across the Leaf Surface in Giant Leaves of <i>Alocasia macrorrhiza</i> . <i>PLoS ONE</i> , 2013, 8, e66016.	2.5	25
58	Winter Photosynthesis of Evergreen Broadleaf Trees from a Montane Cloud Forest in Subtropical China. <i>Advanced Topics in Science and Technology in China</i> , 2013, , 812-817.	0.1	6
59	An observational study of the carbon-sink strength of East Asian subtropical evergreen forests. <i>Environmental Research Letters</i> , 2012, 7, 044017.	5.2	33
60	Recovery of diurnal depression of leaf hydraulic conductance in a subtropical woody bamboo species: embolism refilling by nocturnal root pressure. <i>Tree Physiology</i> , 2012, 32, 414-422.	3.1	59
61	The maximum height of grasses is determined by roots. <i>Ecology Letters</i> , 2012, 15, 666-672.	6.4	66
62	Hydraulic redistribution in dwarf <i>Rhizophora</i> mangle trees driven by interstitial soil water salinity gradients: impacts on hydraulic architecture and gas exchange. <i>Tree Physiology</i> , 2009, 29, 697-705.	3.1	54
63	Size-dependent mortality in a Neotropical savanna tree: the role of height-related adjustments in hydraulic architecture and carbon allocation. <i>Plant, Cell and Environment</i> , 2009, 32, 1456-1466.	5.7	96