Yujie Wang

List of Publications by Year
in descending order

23 papers	1,100 citations	623188 14 h-index	676716 22 g-index
30 all docs	30 docs citations	30 times ranked	1454 citing authors

#	Article	IF	Citations
1	Predicting stomatal responses to the environment from the optimization of photosynthetic gain and hydraulic cost. Plant, Cell and Environment, 2017, 40, 816-830.	2.8	276
2	Pragmatic hydraulic theory predicts stomatal responses to climatic water deficits. New Phytologist, 2016, 212, 577-589.	3.5	168
3	The impact of rising CO ₂ and acclimation on the response of US forests to global warming. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 25734-25744.	3.3	105
4	A stomatal control model based on optimization of carbon gain versus hydraulic risk predicts aspen sapling responses to drought. New Phytologist, 2018, 220, 836-850.	3.5	93
5	Detecting forest response to droughts with global observations of vegetation water content. Global Change Biology, 2021, 27, 6005-6024.	4.2	73
6	A theoretical and empirical assessment of stomatal optimization modeling. New Phytologist, 2020, 227, 311-325.	3.5	69
7	Leveraging plant hydraulics to yield predictive and dynamic plant leaf allocation in vegetation models with climate change. Global Change Biology, 2019, 25, 4008-4021.	4.2	38
8	Dependence of Aspen Stands on a Subsurface Water Subsidy: Implications for Climate Change Impacts. Water Resources Research, 2019, 55, 1833-1848.	1.7	36
9	Accounting for canopy structure improves hyperspectral radiative transfer and sun-induced chlorophyll fluorescence representations in a new generation Earth System model. Remote Sensing of Environment, 2021, 261, 112497.	4.6	34
10	Phylogenetic and biogeographic controls of plant nighttime stomatal conductance. New Phytologist, 2019, 222, 1778-1788.	3.5	32
11	The stomatal response to rising CO2 concentration and drought is predicted by a hydraulic trait-based optimization model. Tree Physiology, 2019, 39, 1416-1427.	1.4	25
12	Global GOSAT, OCO-2, and OCO-3 solar-induced chlorophyll fluorescence datasets. Earth System Science Data, 2022, 14, 1513-1529.	3.7	23
13	Optimization theory explains nighttime stomatal responses. New Phytologist, 2021, 230, 1550-1561.	3.5	19
14	Improved precision of hydraulic conductance measurements using a Cochard rotor in two different centrifuges. The Journal of Plant Hydraulics, 0, 1, e007.	1.0	19
15	Testing stomatal models at the stand level in deciduous angiosperm and evergreen gymnosperm forests using CliMA Land (v0.1). Geoscientific Model Development, 2021, 14, 6741-6763.	1.3	16
16	Coupled wholeâ€tree optimality and xylem hydraulics explain dynamic biomass partitioning. New Phytologist, 2021, 230, 2226-2245.	3.5	15
17	Studies on the Tempo of Bubble Formation in Recently Cavitated Vessels: A Model to Predict the Pressure of Air Bubbles. Plant Physiology, 2015, 168, 521-531.	2.3	12
18	A Novel Environment-Friendly Adhesive Based on Recycling of Broussonetia papyrifera Leaf Forestry Waste Protein. Forests, 2022, 13, 291.	0.9	11

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19	Stem hydraulic conductivity depends on the pressure at which it is measured and how this dependence can be used to assess the tempo of bubble pressurization in recently cavitated vessels.. Plant Physiology, 2015, 169, pp.00875.2015.	2.3	8
20	Do nano-particles cause recalcitrant vulnerability curves inRobinia? Testing with a four-cuvette Cochard rotor and with water extraction curves. Tree Physiology, 2019, 39, 156-165.	1.4	7
21	Mineral Luminescence Observed From Space. Geophysical Research Letters, 2021, 48, e2021GL095227.	1.5	7
22	On the impact of canopy model complexity on simulated carbon, water, and solar-induced chlorophyll fluorescence fluxes. Biogeosciences, 2022, 19, 29-45.	1.3	7
23	GriddingMachine, a database and software for Earth system modeling at global and regional scales. Scientific Data, 2022, 9, .	2.4	4