Ashley M Matheny

List of Publications by Year
in descending order

30 papers	1,607 citations	430874 18 h-index	477307 29 g-index
33 all docs	33 docs citations	33 times ranked	3084 citing authors

#	Article	IF	Citations
1	Opportunities, challenges and pitfalls in characterizing plant waterâ€use strategies. Functional Ecology, 2022, 36, 24-37.	3.6	27
2	Tree hydrodynamic modelling of the soilâ€“plantâ€“atmosphere continuum using FETCH3. Geoscientific Model Development, 2022, 15, 2619-2634.	3.6	5
3	Intraâ€Specific Variability in Plant Hydraulic Parameters Inferred From Model Inversion of Sap Flux Data. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	3.0	4
4	Representation of Plant Hydraulics in the Noahâ€MP Land Surface Model: Model Development and Multiscale Evaluation. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002214.	3.8	50
5	Root lateral interactions drive water uptake patterns under water limitation. Advances in Water Resources, 2021, 151, 103896.	3.8	20
6	Global transpiration data from sap flow measurements: the SAPFLUXNET database. Earth System Science Data, 2021, 13, 2607-2649.	9.9	65
7	Stressors Reveal Ecosystems' Hidden Characteristics. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006462.	3.0	1
8	Detecting forest response to droughts with global observations of vegetation water content. Global Change Biology, 2021, 27, 6005-6024.	9.5	73
9	The handbook for standardized field and laboratory measurements in terrestrial climate change experiments and observational studies (ClimEx). Methods in Ecology and Evolution, 2020, 11, 22-37.	5.2	68
10	An isotopic approach to partition evapotranspiration in a mixed deciduous forest. Ecohydrology, 2020, 13, e2229.	2.4	4
11	Aboveground tree growth is a minor and decoupled fraction of boreal forest carbon input. Agricultural and Forest Meteorology, 2020, 290, 108030.	4.8	33
12	Stable Water Isotopes Reveal Effects of Intermediate Disturbance and Canopy Structure on Forest Water Cycling. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 2958-2975.	3.0	15
13	LEAF: Logger for ecological and atmospheric factors. HardwareX, 2019, 6, e00079.	2.2	3
14	Hydrodynamic trait coordination and costâ€“benefit tradeâ€offs throughout the isohydricâ€“anisohydric continuum in trees. Ecohydrology, 2019, 12, e2041.	2.4	17
15	Vegetation demographics in Earth System Models: A review of progress and priorities. Global Change Biology, 2018, 24, 35-54.	9.5	478
16	Plant Hydraulic Trait Covariation: A Global Meta-Analysis to Reduce Degrees of Freedom in Trait-Based Hydrologic Models. Forests, 2018, 9, 446.	2.1	13
17	Seasonal Patterns of Water Cycling in a Deep, Continental Mountain Valley Inferred From Stable Water Vapor Isotopes. Journal of Geophysical Research D: Atmospheres, 2018, 123, 7271-7291.	3.3	25
18	Boreal tree hydrodynamics: asynchronous, diverging, yet complementary. Tree Physiology, 2018, 38, 953-964.	3.1	46

#	Article	IF	Citations
19	Quantification of uncertainties in conifer sap flow measured with the thermal dissipation method. New Phytologist, 2018, 219, 1283-1299.	7.3	81
20	A Numerical Case Study of the Implications of Secondary Circulations to the Interpretation of Eddy-Covariance Measurements Over Small Lakes. Boundary-Layer Meteorology, 2017, 165, 311-332.	2.3	24
21	Trait-based representation of hydrological functional properties ofÂplants in weather and ecosystem models. Plant Diversity, 2017, 39, 1-12.	3.7	56
22	Contrasting strategies of hydraulic control in two codominant temperate tree species. Ecohydrology, 2017, 10, e1815.	2.4	102
23	The Calibration and Use of Capacitance Sensors to Monitor Stem Water Content in Trees. Journal of Visualized Experiments, 2017, , .	0.3	8
24	Tree level hydrodynamic approach for resolving aboveground water storage and stomatal conductance and modeling the effects of tree hydraulic strategy. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 1792-1813.	3.0	84
25	Modeling forest carbon cycle response to tree mortality: Effects of plant functional type and disturbance intensity. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 2178-2193.	3.0	9
26	Observations of stem water storage in trees of opposing hydraulic strategies. Ecosphere, 2015, 6, 1-13.	2.2	76
27	Characterizing the diurnal patterns of errors in the prediction of evapotranspiration by several landâ€surface models: An NACP analysis. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1458-1473.	3.0	69
28	Speciesâ€specific transpiration responses to intermediate disturbance in a northern hardwood forest. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 2292-2311.	3.0	76
29	Contrasting Hydraulic Strategies during Dry Soil Conditions in Quercus rubra and Acer rubrum in a Sandy Site in Michigan. Forests, 2013, 4, 1106-1120.	2.1	65
30	Impacts of Vegetation on Dryland River Morphology: Insights from Springâ€Fed Channel Reaches, Henry Mountains, Utah. Water Resources Research, 0, , .	4.2	2