

Ashley M Matheny

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6956612/publications.pdf>

Version: 2024-02-01

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	Vegetation demographics in Earth System Models: A review of progress and priorities. <i>Global Change Biology</i> , 2018, 24, 35-54.	9.5	478
2	Contrasting strategies of hydraulic control in two codominant temperate tree species. <i>Ecohydrology</i> , 2017, 10, e1815.	2.4	102
3	Tree level hydrodynamic approach for resolving aboveground water storage and stomatal conductance and modeling the effects of tree hydraulic strategy. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 1792-1813.	3.0	84
4	Quantification of uncertainties in conifer sap flow measured with the thermal dissipation method. <i>New Phytologist</i> , 2018, 219, 1283-1299.	7.3	81
5	Species-specific transpiration responses to intermediate disturbance in a northern hardwood forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 2292-2311.	3.0	76
6	Observations of stem water storage in trees of opposing hydraulic strategies. <i>Ecosphere</i> , 2015, 6, 1-13.	2.2	76
7	Detecting forest response to droughts with global observations of vegetation water content. <i>Global Change Biology</i> , 2021, 27, 6005-6024.	9.5	73
8	Characterizing the diurnal patterns of errors in the prediction of evapotranspiration by several land-surface models: An NACP analysis. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 1458-1473.	3.0	69
9	The handbook for standardized field and laboratory measurements in terrestrial climate change experiments and observational studies (ClimEx). <i>Methods in Ecology and Evolution</i> , 2020, 11, 22-37.	5.2	68
10	Contrasting Hydraulic Strategies during Dry Soil Conditions in <i>Quercus rubra</i> and <i>Acer rubrum</i> in a Sandy Site in Michigan. <i>Forests</i> , 2013, 4, 1106-1120.	2.1	65
11	Global transpiration data from sap flow measurements: the SAPFLUXNET database. <i>Earth System Science Data</i> , 2021, 13, 2607-2649.	9.9	65
12	Trait-based representation of hydrological functional properties of plants in weather and ecosystem models. <i>Plant Diversity</i> , 2017, 39, 1-12.	3.7	56
13	Representation of Plant Hydraulics in the Noah-MP Land Surface Model: Model Development and Multiscale Evaluation. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002214.	3.8	50
14	Boreal tree hydrodynamics: asynchronous, diverging, yet complementary. <i>Tree Physiology</i> , 2018, 38, 953-964.	3.1	46
15	Aboveground tree growth is a minor and decoupled fraction of boreal forest carbon input. <i>Agricultural and Forest Meteorology</i> , 2020, 290, 108030.	4.8	33
16	Opportunities, challenges and pitfalls in characterizing plant water-use strategies. <i>Functional Ecology</i> , 2022, 36, 24-37.	3.6	27
17	Seasonal Patterns of Water Cycling in a Deep, Continental Mountain Valley Inferred From Stable Water Vapor Isotopes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 7271-7291.	3.3	25
18	A Numerical Case Study of the Implications of Secondary Circulations to the Interpretation of Eddy-Covariance Measurements Over Small Lakes. <i>Boundary-Layer Meteorology</i> , 2017, 165, 311-332.	2.3	24

#	ARTICLE	IF	CITATIONS
19	Root lateral interactions drive water uptake patterns under water limitation. <i>Advances in Water Resources</i> , 2021, 151, 103896.	3.8	20
20	Hydrodynamic trait coordination and costâ€“benefit tradeâ€“offs throughout the isohydricâ€“anisohydric continuum in trees. <i>Ecohydrology</i> , 2019, 12, e2041.	2.4	17
21	Stable Water Isotopes Reveal Effects of Intermediate Disturbance and Canopy Structure on Forest Water Cycling. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 2958-2975.	3.0	15
22	Plant Hydraulic Trait Covariation: A Global Meta-Analysis to Reduce Degrees of Freedom in Trait-Based Hydrologic Models. <i>Forests</i> , 2018, 9, 446.	2.1	13
23	Modeling forest carbon cycle response to tree mortality: Effects of plant functional type and disturbance intensity. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 2178-2193.	3.0	9
24	The Calibration and Use of Capacitance Sensors to Monitor Stem Water Content in Trees. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	8
25	Tree hydrodynamic modelling of the soilâ€“plantâ€“atmosphere continuum using FETCH3. <i>Geoscientific Model Development</i> , 2022, 15, 2619-2634.	3.6	5
26	An isotopic approach to partition evapotranspiration in a mixed deciduous forest. <i>Ecohydrology</i> , 2020, 13, e2229.	2.4	4
27	Intraâ€“specific Variability in Plant Hydraulic Parameters Inferred From Model Inversion of Sap Flux Data. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	3.0	4
28	LEAF: Logger for ecological and atmospheric factors. <i>HardwareX</i> , 2019, 6, e00079.	2.2	3
29	Impacts of Vegetation on Dryland River Morphology: Insights from Springâ€“Fed Channel Reaches, Henry Mountains, Utah. <i>Water Resources Research</i> , 0, , .	4.2	2
30	Stressors Reveal Ecosystems' Hidden Characteristics. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2021JG006462.	3.0	1