

Scott T Allen

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,659
citations

471509

17
h-index

414414

32
g-index

34
all docs

34
docs citations

34
times ranked

2280
citing authors

#	ARTICLE	IF	CITATIONS
1	Twenty-three unsolved problems in hydrology (UPH) – a community perspective. <i>Hydrological Sciences Journal</i> , 2019, 64, 1141-1158.	2.6	474
2	The Demographics of Water: A Review of Water Ages in the Critical Zone. <i>Reviews of Geophysics</i> , 2019, 57, 800-834.	23.0	197
3	Seasonal origins of soil water used by trees. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 1199-1210.	4.9	166
4	Ideas and perspectives: Tracing terrestrial ecosystem water fluxes using hydrogen and oxygen stable isotopes – challenges and opportunities from an interdisciplinary perspective. <i>Biogeosciences</i> , 2018, 15, 6399-6415.	3.3	115
5	The role of stable isotopes in understanding rainfall interception processes: a review. <i>Wiley Interdisciplinary Reviews: Water</i> , 2017, 4, 1-17.	6.5	91
6	Sensitivity of young water fractions to hydro-climatic forcing and landscape properties across 22 Swiss catchments. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 3841-3861.	4.9	77
7	Spatial variation in throughfall, soil, and plant water isotopes in a temperate forest. <i>Ecohydrology</i> , 2019, 12, e2059.	2.4	67
8	Plant and root-zone water isotopes are difficult to measure, explain, and predict: Some practical recommendations for determining plant water sources. <i>Methods in Ecology and Evolution</i> , 2020, 11, 1352-1367.	5.2	48
9	Predicting Spatial Patterns in Precipitation Isotope ($\delta^{2}\text{H}$ and $\delta^{18}\text{O}$) Seasonality Using Sinusoidal Isoscapes. <i>Geophysical Research Letters</i> , 2018, 45, 4859-4868.	4.0	46
10	What Ecohydrologic Separation Is and Where We Can Go With It. <i>Water Resources Research</i> , 2020, 56, e2020WR027238.	4.2	37
11	Spatial patterns of throughfall isotopic composition at the event and seasonal timescales. <i>Journal of Hydrology</i> , 2015, 522, 58-66.	5.4	31
12	Seasonal partitioning of precipitation between streamflow and evapotranspiration, inferred from end-member splitting analysis. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 17-39.	4.9	31
13	Global sinusoidal seasonality in precipitation isotopes. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 3423-3436.	4.9	29
14	Potential effects of cryogenic extraction biases on plant water source partitioning inferred from xylem water isotope ratios. <i>Hydrological Processes</i> , 2022, 36, .	2.6	29
15	Fine-scale spatial variability of throughfall amount and isotopic composition under a hardwood forest canopy. <i>Hydrological Processes</i> , 2016, 30, 1796-1803.	2.6	26
16	Wetland tree transpiration modified by river-floodplain connectivity. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 753-766.	3.0	20
17	Small gradients in salinity have large effects on stand water use in freshwater wetland forests. <i>Forest Ecology and Management</i> , 2020, 473, 118308.	3.2	20
18	Contrasting effects of flooding on tree growth and stand density determine aboveground production, in baldcypress forests. <i>Forest Ecology and Management</i> , 2019, 432, 345-355.	3.2	19

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19	Hydrologic exchanges and baldcypress water use on deltaic hummocks, Louisiana, USA. <i>Ecohydrology</i> , 2016, 9, 1452-1463.	2.4	15
20	Waters flowing out of systems are younger than the waters stored in those same systems. <i>Hydrological Processes</i> , 2019, 33, 3251-3254.	2.6	15
21	Sub-canopy Evapotranspiration from Floating Vegetation and Open Water in a Swamp Forest. <i>Wetlands</i> , 2016, 36, 681-688.	1.5	13
22	Key Questions on the Evaporation and Transport of Intercepted Precipitation. , 2020, , 269-280.		13
23	Climatic Influences on Summer Use of Winter Precipitation by Trees. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	13
24	The Seasonal Origins of Streamwater in Switzerland. <i>Geophysical Research Letters</i> , 2019, 46, 10425-10434.	4.0	12
25	Evaporation and the subcanopy energy environment in a flooded forest. <i>Hydrological Processes</i> , 2017, 31, 2860-2871.	2.6	9
26	Leaf area allometrics and morphometrics in baldcypress. <i>Canadian Journal of Forest Research</i> , 2015, 45, 963-969.	1.7	8
27	Stand density and carbon storage in cypress-tupelo wetland forests of the Mississippi River delta. <i>Forest Ecology and Management</i> , 2019, 441, 106-114.	3.2	8
28	Wetland-tree growth responses to hydrologic variability derived from development and optimization of a non-linear radial growth model. <i>Ecological Modelling</i> , 2017, 354, 49-61.	2.5	6
29	A 3-D groundwater isoscape of the contiguous USA for forensic and water resource science. <i>PLoS ONE</i> , 2022, 17, e0261651.	2.5	6
30	Spatial and Temporal Variations in Plant Source Water: O and H Isotope Ratios from Precipitation to Xylem Water. <i>Tree Physiology</i> , 2022, , 501-535.	2.5	6
31	The Stable Hydrogen Isotopic Signature: From Source Water to Tree Rings. <i>Tree Physiology</i> , 2022, , 331-359.	2.5	4
32	Species-specific growth capacity for floodplain forest trees inferred from sapwood efficiency and individual tree competition. <i>Forest Ecology and Management</i> , 2020, 476, 118427.	3.2	3
33	Wrack and ruin: Legacy hydrologic effects of hurricane-deposited wrack on hardwood-hammock coastal islands. <i>Environmental Research Communications</i> , 2020, 2, 061001.	2.3	3
34	Localized Augmentation of Net Precipitation to Shrubs: A Case Study of Stemflow Funneling to Hummocks in a Salinity-Intruded Swamp. <i>Frontiers in Forests and Global Change</i> , 2021, 4, .	2.3	2