

# W Jesse Hahm

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6865891/publications.pdf>

Version: 2024-02-01

22  
papers

1,077  
citations

623734

14  
h-index

752698

20  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1323  
citing authors

#	ARTICLE	IF	CITATIONS
1	Controls on deep critical zone architecture: a historical review and four testable hypotheses. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 128-156.	2.5	218
2	Bedrock composition regulates mountain ecosystems and landscape evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3338-3343.	7.1	175
3	Widespread woody plant use of water stored in bedrock. <i>Nature</i> , 2021, 597, 225-229.	27.8	99
4	Lithologically Controlled Subsurface Critical Zone Thickness and Water Storage Capacity Determine Regional Plant Community Composition. <i>Water Resources Research</i> , 2019, 55, 3028-3055.	4.2	97
5	Drainage from the Critical Zone: Lithologic Controls on the Persistence and Spatial Extent of Wetted Channels during the Summer Dry Season. <i>Water Resources Research</i> , 2018, 54, 5702-5726.	4.2	69
6	Quantification of the seasonal hillslope water storage that does not drive streamflow. <i>Hydrological Processes</i> , 2018, 32, 1978-1992.	2.6	66
7	Low Subsurface Water Storage Capacity Relative to Annual Rainfall Decouples Mediterranean Plant Productivity and Water Use From Rainfall Variability. <i>Geophysical Research Letters</i> , 2019, 46, 6544-6553.	4.0	63
8	Digging deeper: what the critical zone perspective adds to the study of plant ecophysiology. <i>New Phytologist</i> , 2020, 226, 666-671.	7.3	61
9	Testing for supply-limited and kinetic-limited chemical erosion in field measurements of regolith production and chemical depletion. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 2270-2285.	2.5	44
10	Oak Transpiration Drawn From the Weathered Bedrock Vadose Zone in the Summer Dry Season. <i>Water Resources Research</i> , 2020, 56, e2020WR027419.	4.2	37
11	Controls on the distribution and resilience of <i>Quercus garryana</i> : ecophysiological evidence of oak's water-limitation tolerance. <i>Ecosphere</i> , 2018, 9, e02218.	2.2	25
12	Variability of stream extents controlled by flow regime and network hydraulic scaling. <i>Hydrological Processes</i> , 2021, 35, e14079.	2.6	22
13	Arrested development: Erosional equilibrium in the southern Sierra Nevada, California, maintained by feedbacks between channel incision and hillslope sediment production. <i>Bulletin of the Geological Society of America</i> , 2019, 131, 1179-1202.	3.3	21
14	Plants as sensors: vegetation response to rainfall predicts root-zone water storage capacity in Mediterranean-type climates. <i>Environmental Research Letters</i> , 2020, 15, 104074.	5.2	20
15	Landscape response to tipping points in granite weathering: The case of stepped topography in the Southern Sierra Critical Zone Observatory. <i>Applied Geochemistry</i> , 2011, 26, S48-S50.	3.0	14
16	Bedrock Vadose Zone Storage Dynamics Under Extreme Drought: Consequences for Plant Water Availability, Recharge, and Runoff. <i>Water Resources Research</i> , 2022, 58, .	4.2	14
17	The Relationship Between Topography, Bedrock Weathering, and Water Storage Across a Sequence of Ridges and Valleys. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF005848.	2.8	13
18	Controls on Stream Water Age in a Saturation Overland Flow-Dominated Catchment. <i>Water Resources Research</i> , 2022, 58, .	4.2	9

#	ARTICLE	IF	CITATIONS
19	Technical note: Accounting for snow in the estimation of root zone water storage capacity from precipitation and evapotranspiration fluxes. Hydrology and Earth System Sciences, 2021, 25, 2861-2867.	4.9	5
20	In-situ nuclear magnetic resonance detection of fracture-held water in variably saturated bedrock. , 2018, , .		2
21	Multicriteria analysis on rock moisture and streamflow in a rainfallâ€runoff model improves accuracy of model results. Hydrological Processes, 2022, 36, .	2.6	1
22	Investigating water storage in a shale bedrock vadose zone in a montane conifer forest, Slate River, Colorado. , 2019, , .		0