

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

623574

14
h-index

752573

20
g-index

26
all docs

26
docs citations

26
times ranked

1323
citing authors

#	ARTICLE	IF	CITATIONS
1	Multicriteria analysis on rock moisture and streamflow in a rainfall-runoff model improves accuracy of model results. <i>Hydrological Processes</i> , 2022, 36, .	1.1	1
2	Controls on Stream Water Age in a Saturation Overland Flow-Dominated Catchment. <i>Water Resources Research</i> , 2022, 58, .	1.7	9
3	Bedrock Vadose Zone Storage Dynamics Under Extreme Drought: Consequences for Plant Water Availability, Recharge, and Runoff. <i>Water Resources Research</i> , 2022, 58, .	1.7	14
4	Variability of stream extents controlled by flow regime and network hydraulic scaling. <i>Hydrological Processes</i> , 2021, 35, e14079.	1.1	22
5	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.	1.0	13
6	Technical note: Accounting for snow in the estimation of root zone water storage capacity from precipitation and evapotranspiration fluxes. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 2861-2867.	1.9	5
7	Widespread woody plant use of water stored in bedrock. <i>Nature</i> , 2021, 597, 225-229.	13.7	99
8	Digging deeper: what the critical zone perspective adds to the study of plant ecophysiology. <i>New Phytologist</i> , 2020, 226, 666-671.	3.5	61
9	Oak Transpiration Drawn From the Weathered Bedrock Vadose Zone in the Summer Dry Season. <i>Water Resources Research</i> , 2020, 56, e2020WR027419.	1.7	37
10	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.	2.2	20
11	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.	1.6	21
12	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.	1.5	63
13	Lithologically Controlled Subsurface Critical Zone Thickness and Water Storage Capacity Determine Regional Plant Community Composition. <i>Water Resources Research</i> , 2019, 55, 3028-3055.	1.7	97
14	Investigating water storage in a shale bedrock vadose zone in a montane conifer forest, Slate River, Colorado. , 2019, , .		0
15	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.	1.7	69
16	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.	1.0	25
17	Quantification of the seasonal hillslope water storage that does not drive streamflow. <i>Hydrological Processes</i> , 2018, 32, 1978-1992.	1.1	66
18	In-situ nuclear magnetic resonance detection of fracture-held water in variably saturated bedrock. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
19	Controls on deep critical zone architecture: a historical review and four testable hypotheses. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 128-156.	1.2	218
20	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.	1.0	44
21	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.	3.3	175
22	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.	1.4	14