W Jesse Hahm

List of Publications by Year
in descending order

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

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22	1,077	623574 14	752573 20
papers	citations	h-index	g-index

26	26	26	1323
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Controls on deep critical zone architecture: a historical review and four testable hypotheses. Earth Surface Processes and Landforms, 2017, 42, 128-156.	1.2	218
2	Bedrock composition regulates mountain ecosystems and landscape evolution. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3338-3343.	3.3	175
3	Widespread woody plant use of water stored in bedrock. Nature, 2021, 597, 225-229.	13.7	99
4	Lithologically Controlled Subsurface Critical Zone Thickness and Water Storage Capacity Determine Regional Plant Community Composition. Water Resources Research, 2019, 55, 3028-3055.	1.7	97
5	Drainage from the Critical Zone: Lithologic Controls on the Persistence and Spatial Extent of Wetted Channels during the Summer Dry Season. Water Resources Research, 2018, 54, 5702-5726.	1.7	69
6	Quantification of the seasonal hillslope water storage that does not drive streamflow. Hydrological Processes, 2018, 32, 1978-1992.	1.1	66
7	Low Subsurface Water Storage Capacity Relative to Annual Rainfall Decouples Mediterranean Plant Productivity and Water Use From Rainfall Variability. Geophysical Research Letters, 2019, 46, 6544-6553.	1.5	63
8	Digging deeper: what the critical zone perspective adds to the study of plant ecophysiology. New Phytologist, 2020, 226, 666-671.	3.5	61
9	Testing for supplyâ€limited and kineticâ€limited chemical erosion in field measurements of regolith production and chemical depletion. Geochemistry, Geophysics, Geosystems, 2016, 17, 2270-2285.	1.0	44
10	Oak Transpiration Drawn From the Weathered Bedrock Vadose Zone in the Summer Dry Season. Water Resources Research, 2020, 56, e2020WR027419.	1.7	37
11	Controls on the distribution and resilience of Quercus garryana : ecophysiological evidence of oak's waterâ€limitation tolerance. Ecosphere, 2018, 9, e02218.	1.0	25
12	Variability of stream extents controlled by flow regime and network hydraulic scaling. Hydrological Processes, 2021, 35, e14079.	1.1	22
13	Arrested development: Erosional equilibrium in the southern Sierra Nevada, California, maintained by feedbacks between channel incision and hillslope sediment production. Bulletin of the Geological Society of America, 2019, 131, 1179-1202.	1.6	21
14	Plants as sensors: vegetation response to rainfall predicts root-zone water storage capacity in Mediterranean-type climates. Environmental Research Letters, 2020, 15, 104074.	2.2	20
15	Landscape response to tipping points in granite weathering: The case of stepped topography in the Southern Sierra Critical Zone Observatory. Applied Geochemistry, 2011, 26, S48-S50.	1.4	14
16	Bedrock Vadose Zone Storage Dynamics Under Extreme Drought: Consequences for Plant Water Availability, Recharge, and Runoff. Water Resources Research, 2022, 58, .	1.7	14
17	The Relationship Between Topography, Bedrock Weathering, and Water Storage Across a Sequence of Ridges and Valleys. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2020JF005848.	1.0	13
18	Controls on Stream Water Age in a Saturation Overland Flowâ€Dominated Catchment. Water Resources Research, 2022, 58, .	1.7	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.	1.9	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, .	1.1	1
22	Investigating water storage in a shale bedrock vadose zone in a montane conifer forest, Slate River, Colorado. , 2019, , .		0