W Jesse Hahm

List of Publications by Year
in descending order

22	1,077	623734 14	752698 20
papers	citations	h-index	g-index

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

#	Article	IF	Citations
1	Multicriteria analysis on rock moisture and streamflow in a rainfallâ€runoff model improves accuracy of model results. Hydrological Processes, 2022, 36, .	2.6	1
2	Controls on Stream Water Age in a Saturation Overland Flowâ€Dominated Catchment. Water Resources Research, 2022, 58, .	4.2	9
3	Bedrock Vadose Zone Storage Dynamics Under Extreme Drought: Consequences for Plant Water Availability, Recharge, and Runoff. Water Resources Research, 2022, 58, .	4.2	14
4	Variability of stream extents controlled by flow regime and network hydraulic scaling. Hydrological Processes, 2021, 35, e14079.	2.6	22
5	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.	2.8	13
6	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
7	Widespread woody plant use of water stored in bedrock. Nature, 2021, 597, 225-229.	27.8	99
8	Digging deeper: what the critical zone perspective adds to the study of plant ecophysiology. New Phytologist, 2020, 226, 666-671.	7.3	61
9	Oak Transpiration Drawn From the Weathered Bedrock Vadose Zone in the Summer Dry Season. Water Resources Research, 2020, 56, e2020WR027419.	4.2	37
10	Plants as sensors: vegetation response to rainfall predicts root-zone water storage capacity in Mediterranean-type climates. Environmental Research Letters, 2020, 15, 104074.	5.2	20
11	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.	3.3	21
12	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.	4.0	63
13	Lithologically Controlled Subsurface Critical Zone Thickness and Water Storage Capacity Determine Regional Plant Community Composition. Water Resources Research, 2019, 55, 3028-3055.	4.2	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. Water Resources Research, 2018, 54, 5702-5726.	4.2	69
16	Controls on the distribution and resilience of Quercus garryana : ecophysiological evidence of oak's waterâ€limitation tolerance. Ecosphere, 2018, 9, e02218.	2.2	25
17	Quantification of the seasonal hillslope water storage that does not drive streamflow. Hydrological Processes, 2018, 32, 1978-1992.	2.6	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. Earth Surface Processes and Landforms, 2017, 42, 128-156.	2.5	218
20	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.	2.5	44
21	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.	7.1	175
22	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.	3.0	14