

Keith N Musselman

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,999
citations

331670

21
h-index

477307

29
g-index

40
all docs

40
docs citations

40
times ranked

2137
citing authors

#	ARTICLE	IF	CITATIONS
1	Slower snowmelt in a warmer world. <i>Nature Climate Change</i> , 2017, 7, 214-219.	18.8	354
2	Projected increases and shifts in rain-on-snow flood risk over western North America. <i>Nature Climate Change</i> , 2018, 8, 808-812.	18.8	261
3	Effects of vegetation on snow accumulation and ablation in a mid-latitude subalpine forest. <i>Hydrological Processes</i> , 2008, 22, 2767-2776.	2.6	153
4	Ecohydrological controls on snowmelt partitioning in mixed-conifer subalpine forests. <i>Ecohydrology</i> , 2009, 2, 129-142.	2.4	137
5	Small scale spatial variability of snow density and depth over complex alpine terrain: Implications for estimating snow water equivalent. <i>Advances in Water Resources</i> , 2013, 55, 40-52.	3.8	136
6	Winter melt trends portend widespread declines in snow water resources. <i>Nature Climate Change</i> , 2021, 11, 418-424.	18.8	110
7	Soil moisture response to snowmelt timing in mixed-conifer subalpine forests. <i>Hydrological Processes</i> , 2015, 29, 2782-2798.	2.6	92
8	LiDAR-derived snowpack data sets from mixed conifer forests across the Western United States. <i>Water Resources Research</i> , 2014, 50, 2749-2755.	4.2	75
9	Influence of canopy structure and direct beam solar irradiance on snowmelt rates in a mixed conifer forest. <i>Agricultural and Forest Meteorology</i> , 2012, 161, 46-56.	4.8	74
10	Different sensitivities of snowpacks to warming in Mediterranean climate mountain areas. <i>Environmental Research Letters</i> , 2017, 12, 074006.	5.2	73
11	Estimation of solar direct beam transmittance of conifer canopies from airborne LiDAR. <i>Remote Sensing of Environment</i> , 2013, 136, 402-415.	11.0	70
12	Variability in shortwave irradiance caused by forest gaps: Measurements, modelling, and implications for snow energetics. <i>Agricultural and Forest Meteorology</i> , 2015, 207, 69-82.	4.8	62
13	Impact of windflow calculations on simulations of alpine snow accumulation, redistribution and ablation. <i>Hydrological Processes</i> , 2015, 29, 3983-3999.	2.6	41
14	Extreme Runoff Generation From Atmospheric River Driven Snowmelt During the 2017 Oroville Dam Spillways Incident. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088189.	4.0	38
15	Laser vision: lidar as a transformative tool to advance critical zone science. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 2881-2897.	4.9	37
16	Improved snowmelt simulations with a canopy model forced with photo-derived direct beam canopy transmissivity. <i>Water Resources Research</i> , 2012, 48, .	4.2	35
17	Estimation of Needleleaf Canopy and Trunk Temperatures and Longwave Contribution to Melting Snow. <i>Journal of Hydrometeorology</i> , 2017, 18, 555-572.	1.9	32
18	Assessment of Snow Grain-Size Model and Stratigraphy Representation Impacts on Snow Radiance Assimilation: Forward Modeling Evaluation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012, 50, 4551-4564.	6.3	31

#	ARTICLE	IF	CITATIONS
19	Snowmelt response to simulated warming across a large elevation gradient, southern Sierra Nevada, California. <i>Cryosphere</i> , 2017, 11, 2847-2866.	3.9	29
20	Data Assimilation Improves Estimates of Climate-Sensitive Seasonal Snow. <i>Current Climate Change Reports</i> , 2020, 6, 81-94.	8.6	27
21	Snowfall and snowpack in the Western U.S. as captured by convection permitting climate simulations: current climate and pseudo global warming future climate. <i>Climate Dynamics</i> , 2021, 57, 2191-2215.	3.8	27
22	Solar radiation transmittance of a boreal balsam fir canopy: Spatiotemporal variability and impacts on growing season hydrology. <i>Agricultural and Forest Meteorology</i> , 2018, 263, 1-14.	4.8	19
23	Modelling the effects of the mountain pine beetle on snowmelt in a subalpine forest. <i>Ecohydrology</i> , 2014, 7, 226-241.	2.4	18
24	Snowpack-climate manipulation using infrared heaters in subalpine forests of the Southern Rocky Mountains, USA. <i>Agricultural and Forest Meteorology</i> , 2015, 203, 142-157.	4.8	17
25	Interannual and Seasonal Variability of Snow Depth Scaling Behavior in a Subalpine Catchment. <i>Water Resources Research</i> , 2020, 56, e2020WR027343.	4.2	15
26	Pervasive alterations to snow-dominated ecosystem functions under climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	13
27	The Post-Wildfire Impact of Burn Severity and Age on Black Carbon Snow Deposition and Implications for Snow Water Resources, Cascade Range, Washington. <i>Journal of Hydrometeorology</i> , 2020, 21, 1777-1792.	1.9	11
28	Spatial Distribution and Scaling Properties of Lidar-Derived Snow Depth in the Extratropical Andes. <i>Water Resources Research</i> , 2020, 56, e2020WR028480.	4.2	7
29	Extending the vadose zone: Characterizing the role of snow for liquid water storage and transmission in streamflow generation. <i>Hydrological Processes</i> , 2022, 36, .	2.6	1