

Matthias Bernhardt

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

700
citations

623734

14
h-index

580821

25
g-index

31
all docs

31
docs citations

31
times ranked

1141
citing authors

#	ARTICLE	IF	CITATIONS
1	Elevation correction of ERA-Interim temperature data in complex terrain. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 4661-4673.	4.9	104
2	SnowSlide: A simple routine for calculating gravitational snow transport. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	74
3	The influence of lateral snow redistribution processes on snow melt and sublimation in alpine regions. <i>Journal of Hydrology</i> , 2012, 424-425, 196-206.	5.4	54
4	Estimating spatially distributed turbulent heat fluxes from high-resolution thermal imagery acquired with a UAV system. <i>International Journal of Remote Sensing</i> , 2017, 38, 3003-3026.	2.9	54
5	On the need for a time- and location-dependent estimation of the NDSI threshold value for reducing existing uncertainties in snow cover maps at different scales. <i>Cryosphere</i> , 2018, 12, 1629-1642.	3.9	48
6	Using wind fields from a high-resolution atmospheric model for simulating snow dynamics in mountainous terrain. <i>Hydrological Processes</i> , 2009, 23, 1064-1075.	2.6	41
7	Elevation correction of ERA-Interim temperature data in the Tibetan Plateau. <i>International Journal of Climatology</i> , 2017, 37, 3540-3552.	3.5	40
8	Estimation of evapotranspiration of temperate grassland based on high-resolution thermal and visible range imagery from unmanned aerial systems. <i>International Journal of Remote Sensing</i> , 2018, 39, 5141-5174.	2.9	35
9	Statistical Downscaling of ERA-Interim Forecast Precipitation Data in Complex Terrain Using LASSO Algorithm. <i>Advances in Meteorology</i> , 2014, 2014, 1-16.	1.6	33
10	A high-resolution air temperature data set for the Chinese Tian Shan in 1979–2016. <i>Earth System Science Data</i> , 2018, 10, 2097-2114.	9.9	31
11	PRACTISE – Photo Rectification And Classification Software (V.1.0). <i>Geoscientific Model Development</i> , 2013, 6, 837-848.	3.6	29
12	Research network to track alpine water. <i>Nature</i> , 2015, 521, 32-32.	27.8	25
13	PRACTISE – Photo Rectification And Classification Software (V.2.1). <i>Geoscientific Model Development</i> , 2016, 9, 307-321.	3.6	19
14	Description of current and future snow processes in a small basin in the Bavarian Alps. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	17
15	A First Evaluation of ERA-20CM over China. <i>Monthly Weather Review</i> , 2016, 144, 45-57.	1.4	17
16	Simulation of snow management in Alpine ski resorts using three different snow models. <i>Cold Regions Science and Technology</i> , 2020, 172, 102995.	3.5	16
17	Estimating spatially distributed soil texture using time series of thermal remote sensing – a case study in central Europe. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 3765-3775.	4.9	13
18	Identification of catchment functional units by time series of thermal remote sensing images. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 5345-5359.	4.9	10

#	ARTICLE	IF	CITATIONS
19	Improving Soil Moisture Data Retrieval From Airborne L-Band Radiometer Data by Considering Spatially Varying Roughness. Canadian Journal of Remote Sensing, 2014, 40, 15-25.	2.4	8
20	The end of trend estimation for extreme floods under climate change?. Hydrological Processes, 2016, 30, 1804-1808.	2.6	8
21	Towards Improved Field Application of Using Distributed Temperature Sensing for Soil Moisture Estimation: A Laboratory Experiment. Sensors, 2020, 20, 29.	3.8	7
22	The evaluation of the potential of global data products for snow hydrological modelling in ungauged high-alpine catchments. Hydrology and Earth System Sciences, 2021, 25, 2869-2894.	4.9	7
23	On the Ability of LIDAR Snow Depth Measurements to Determine or Evaluate the HRU Discretization in a Land Surface Model. Hydrology, 2020, 7, 20.	3.0	4