

Andreas Bauder

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

3,120
citations

218677

26
h-index

223800

46
g-index

69
all docs

69
docs citations

69
times ranked

2864
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling runoff from highly glacierized alpine drainage basins in a changing climate. Hydrological Processes, 2008, 22, 3888-3902.	2.6	335
2	A method to estimate the ice volume and ice-thickness distribution of alpine glaciers. Journal of Glaciology, 2009, 55, 422-430.	2.2	234
3	Future high-mountain hydrology: a new parameterization of glacier retreat. Hydrology and Earth System Sciences, 2010, 14, 815-829.	4.9	198
4	Determination of the seasonal mass balance of four Alpine glaciers since 1865. Journal of Geophysical Research, 2008, 113, .	3.3	166
5	Chemical and Biological Gradients along the Damma Glacier Soil Chronosequence, Switzerland. Vadose Zone Journal, 2011, 10, 867-883.	2.2	158
6	Runoff evolution in the Swiss Alps: projections for selected high-alpine catchments based on ENSEMBLES scenarios. Hydrological Processes, 2012, 26, 1909-1924.	2.6	144
7	Ice-volume changes of selected glaciers in the Swiss Alps since the end of the 19th century. Annals of Glaciology, 2007, 46, 145-149.	1.4	138
8	An estimate of the glacier ice volume in the Swiss Alps. Global and Planetary Change, 2009, 68, 225-231.	3.5	129
9	Projections of future water resources and their uncertainty in a glacierized catchment in the Swiss Alps and the subsequent effects on hydropower production during the 21st century. Water Resources Research, 2012, 48, .	4.2	126
10	Homogenization of long-term mass-balance time series. Annals of Glaciology, 2009, 50, 198-206.	1.4	123
11	100-year mass changes in the Swiss Alps linked to the Atlantic Multidecadal Oscillation. Geophysical Research Letters, 2010, 37, .	4.0	118
12	Ice ablation as evidence of climate change in the Alps over the 20th century. Journal of Geophysical Research, 2004, 109, .	3.3	86
13	A comparison of empirical and physically based glacier surface melt models for long-term simulations of glacier response. Journal of Glaciology, 2014, 60, 1140-1154.	2.2	83
14	Conventional versus reference-surface mass balance. Journal of Glaciology, 2012, 58, 278-286.	2.2	74
15	Common climatic signal from glaciers in the European Alps over the last 50 years. Geophysical Research Letters, 2017, 44, 1376-1383.	4.0	74
16	The impact of Saharan dust and black carbon on albedo and long-term mass balance of an Alpine glacier. Cryosphere, 2015, 9, 1385-1400.	3.9	73
17	Effect of glaciers on streamflow trends in the Swiss Alps. Water Resources Research, 2010, 46, .	4.2	68
18	New long-term mass-balance series for the Swiss Alps. Journal of Glaciology, 2015, 61, 551-562.	2.2	61

#	ARTICLE	IF	CITATIONS
19	Helicopter-borne ground-penetrating radar investigations on temperate alpine glaciers: A comparison of different systems and their abilities for bedrock mapping. <i>Geophysics</i> , 2016, 81, WA119-WA129.	2.6	58
20	Ice volume distribution and implications on runoff projections in a glacierized catchment. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 4543-4556.	4.9	51
21	Triggering and drainage mechanisms of the 2004 glacier-dammed lake outburst in Gornergletscher, Switzerland. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	48
22	20th-century climate change inferred from four long-term point observations of seasonal mass balance. <i>Annals of Glaciology</i> , 2009, 50, 207-214.	1.4	43
23	Snow accumulation distribution inferred from time-lapse photography and simple modelling. <i>Hydrological Processes</i> , 2010, 24, 2087-2097.	2.6	43
24	Long-term Uncertainty of Hydropower Revenue Due to Climate Change and Electricity Prices. <i>Water Resources Management</i> , 2016, 30, 1325-1343.	3.9	42
25	The ice-thickness distribution of Unteraargletscher, Switzerland. <i>Annals of Glaciology</i> , 2003, 37, 331-336.	1.4	34
26	Hazard assessment investigations in connection with the formation of a lake on the tongue of Unterer Grindelwaldgletscher, Bernese Alps, Switzerland. <i>Natural Hazards and Earth System Sciences</i> , 2010, 10, 227-237.	3.6	33
27	The New Swiss Glacier Inventory SGI2016: From a Topographical to a Glaciological Dataset. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	30
28	High-resolution measurements of spatial and temporal variations in surface velocities of Unteraargletscher, Bernese Alps, Switzerland. <i>Annals of Glaciology</i> , 2000, 31, 63-68.	1.4	27
29	Proglacial erosion rates and processes in a glacierized catchment in the Swiss Alps. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 765-778.	2.5	26
30	Ice thickness distribution of all Swiss glaciers based on extended ground-penetrating radar data and glaciological modeling. <i>Journal of Glaciology</i> , 2021, 67, 1074-1092.	2.2	26
31	Estimation of Mass Balance of the Grosser Aletschgletscher, Swiss Alps, from ICESat Laser Altimetry Data and Digital Elevation Models. <i>Remote Sensing</i> , 2014, 6, 5614-5632.	4.0	25
32	Ground-penetrating radar antenna orientation effects on temperate mountain glaciers. <i>Geophysics</i> , 2017, 82, H15-H24.	2.6	25
33	Glacier bed surveying with helicopter-borne dual-polarization ground-penetrating radar. <i>Journal of Glaciology</i> , 2019, 65, 123-135.	2.2	25
34	Detecting and characterising an englacial conduit network within a temperate Swiss glacier using active seismic, ground penetrating radar and borehole analysis. <i>Annals of Glaciology</i> , 2019, 60, 193-205.	1.4	19
35	Glacier thickness estimations of alpine glaciers using data and modeling constraints. <i>Cryosphere</i> , 2019, 13, 2189-2202.	3.9	18
36	Monitoring the seasonal changes of an englacial conduit network using repeated ground-penetrating radar measurements. <i>Cryosphere</i> , 2020, 14, 3269-3286.	3.9	18

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37	Surface ice motion deviating toward the margins during speed-up events at Gornergletscher, Switzerland. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	16
38	Ice volume estimates of Swiss glaciers using helicopter-borne GPR – an example from the Glacier de la Plaine Morte. , 2018, , .		16
39	Rapidly changing glaciers, ocean and coastal environments, and their impact on human society in the Qaanaaq region, northwestern Greenland. <i>Polar Science</i> , 2021, 27, 100632.	1.2	15
40	More than a century of direct glacier mass-balance observations on Claridenfirn, Switzerland. <i>Journal of Glaciology</i> , 2021, 67, 697-713.	2.2	14
41	Ground-penetrating radar imaging reveals glacier's drainage network in 3D. <i>Cryosphere</i> , 2021, 15, 3975-3988.	3.9	13
42	Thinning leads to calving-style changes at Bowdoin Glacier, Greenland. <i>Cryosphere</i> , 2021, 15, 485-500.	3.9	10
43	Crystallographic analysis of temperate ice on Rhonegletscher, Swiss Alps. <i>Cryosphere</i> , 2021, 15, 677-694.	3.9	10
44	High-resolution helicopter-borne ground penetrating radar survey to determine glacier base topography and the outlook of a proglacial lake. , 2018, , .		9
45	Acoustic velocity measurements for detecting the crystal orientation fabrics of a temperate ice core. <i>Cryosphere</i> , 2021, 15, 3507-3521.	3.9	9
46	Changes in Ice-Flow Velocity and Surface Elevation from 1874 to 2006 in Rhonegletscher, Switzerland. <i>Arctic, Antarctic, and Alpine Research</i> , 2013, 45, 552-562.	1.1	6
47	Modeling the Re-appearance of a Crashed Airplane on Gauligletscher, Switzerland. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	4
48	Mapping the age of ice of Gauligletscher combining surface radionuclide contamination and ice flow modeling. <i>Cryosphere</i> , 2020, 14, 4233-4251.	3.9	3