

# Hendrik Huwald

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

1,740  
citations

361413

20  
h-index

526287

27  
g-index

39  
all docs

39  
docs citations

39  
times ranked

2684  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence of Strong Flux Underestimation by Bulk Parametrizations During Drifting and Blowing Snow. <i>Boundary-Layer Meteorology</i> , 2022, 182, 119-146.	2.3	12
2	Future water temperature of rivers in Switzerland under climate change investigated with physics-based models. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 1063-1087.	4.9	16
3	Climate change scenarios at hourly time-step over Switzerland from an enhanced temporal downscaling approach. <i>International Journal of Climatology</i> , 2021, 41, 3503-3522.	3.5	15
4	Stream temperature and discharge evolution in Switzerland over the last 50 years: annual and seasonal behaviour. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 115-142.	4.9	55
5	Radar measurements of blowing snow off a mountain ridge. <i>Cryosphere</i> , 2020, 14, 1779-1794.	3.9	10
6	The European mountain cryosphere: a review of its current state, trends, and future challenges. <i>Cryosphere</i> , 2018, 12, 759-794.	3.9	382
7	How do Stability Corrections Perform in the Stable Boundary Layer Over Snow?. <i>Boundary-Layer Meteorology</i> , 2017, 165, 161-180.	2.3	27
8	Influence of Slope-scale Snowmelt on Catchment Response Simulated With the <i>Alpine3D</i> Model. <i>Water Resources Research</i> , 2017, 53, 10723-10739.	4.2	36
9	Attenuation of wind-induced pressure perturbations in alpine snow. <i>Journal of Glaciology</i> , 2016, 62, 674-683.	2.2	3
10	StreamFlow 1.0: an extension to the spatially distributed snow model <i>Alpine3D</i> for hydrological modelling and deterministic stream temperature prediction. <i>Geoscientific Model Development</i> , 2016, 9, 4491-4519.	3.6	29
11	Adapting Tilt Corrections and the Governing Flow Equations for Steep, Fully Three-Dimensional, Mountainous Terrain. <i>Boundary-Layer Meteorology</i> , 2016, 159, 539-565.	2.3	35
12	Stream temperature prediction in ungauged basins: review of recent approaches and description of a new physics-derived statistical model. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 3727-3753.	4.9	37
13	Comparison of different numerical approaches to the 1D sea-ice thermodynamics problem. <i>Ocean Modelling</i> , 2015, 87, 20-29.	2.4	9
14	Flow during the evening transition over steep Alpine slopes. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013, 139, 607-624.	2.7	66
15	Thermal diffusivity of seasonal snow determined from temperature profiles. <i>Advances in Water Resources</i> , 2013, 55, 121-130.	3.8	30
16	Measuring sensible heat flux with high spatial density. , 2012, , .		1
17	Carbon monoxide as a tracer of gas transport in snow and other natural porous media. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	13
18	Evolution of superficial lake water temperature profile under diurnal radiative forcing. <i>Water Resources Research</i> , 2011, 47, .	4.2	44

#	ARTICLE	IF	CITATIONS
19	Fiber optic distributed temperature sensing for the determination of the nocturnal atmospheric boundary layer height. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 143-149.	3.1	50
20	Field study of the dynamics and modelling of subgrid-scale turbulence in a stable atmospheric surface layer over a glacier. <i>Journal of Fluid Mechanics</i> , 2010, 665, 480-515.	3.4	58
21	Stream Temperature Response to Three Riparian Vegetation Scenarios by Use of a Distributed Temperature Validated Model. <i>Environmental Science &amp; Technology</i> , 2010, 44, 2072-2078.	10.0	65
22	Estimation of wet surface evaporation from sensible heat flux measurements. <i>Water Resources Research</i> , 2009, 45, .	4.2	29
23	Albedo effect on radiative errors in air temperature measurements. <i>Water Resources Research</i> , 2009, 45, .	4.2	82
24	Subgrid-Scale Dynamics of Water Vapour, Heat, and Momentum over a Lake. <i>Boundary-Layer Meteorology</i> , 2008, 128, 205-228.	2.3	40
25	Spatial pattern and stability of the cold surface layer of Storglaciären, Sweden. <i>Journal of Glaciology</i> , 2007, 53, 99-109.	2.2	42
26	Distributed fiber-optic temperature sensing for hydrologic systems. <i>Water Resources Research</i> , 2006, 42, .	4.2	472
27	Reconciling different observational data sets from Surface Heat Budget of the Arctic Ocean (SHEBA) for model validation purposes. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	33
28	A multilayer sigma-coordinate thermodynamic sea ice model: Validation against Surface Heat Budget of the Arctic Ocean (SHEBA)/Sea Ice Model Intercomparison Project Part 2 (SIMIP2) data. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	30