Ulrich Strasser

List of Publications by Year in Descending Order

48 papers	1,949 citations	20 h-index	44 g-index
64 ext. papers	2,402 ext. citations	4.6 avg, IF	4.46 L-index

#	Paper	IF	Citations
48	Observed snow depth trends in the European Alps: 1971 to 2019. *Cryosphere*, **2021**, 15, 1343-1382	5.5	25
47	The multiplicity of analysis strategies jeopardizes replicability: lessons learned across disciplines. *Royal Society Open Science*, **2021**, 8, 201925	3.3	9
46	Spatio-temporal assessment of the hydrological drivers of an active deep-seated gravitational slope deformation: The V□gelsberg landslide in Tyrol (Austria). *Earth Surface Processes and Landforms*, **2021**, 46, 1865-1881	3.7	1
45	Overloaded! Critical revision and a new conceptual approach for snow indicators in ski tourism. *International Journal of Biometeorology*, **2021**, 65, 691-701	3.7	9
44	Scientific and Human Errors in a Snow Model Intercomparison. *Bulletin of the American Meteorological Society*, **2021**, 102, E61-E79	6.1	13
43	Elevation-dependent compensation effects in snowmelt in the Rhine River Basin upstream gauge Basel **2021**, 52, 536-557		2
42	Evaluating a prediction system for snow management. *Cryosphere*, **2021**, 15, 3949-3973	5.5	1
41	Simulation of snow management in Alpine ski resorts using three different snow models. *Cold Regions Science and Technology*, **2020**, 172, 102995	3.8	8
40	Integrating Models and Remote Sensing Data for Distributed Glacier Mass Balance Estimation. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2020**, 13, 6177-6194	4.7	3
39	Improving SWE Estimation by Fusion of Snow Models with Topographic and Remotely Sensed Data. *Remote Sensing*, **2019**, 11, 2033	5	3
38	Twenty-three unsolved problems in hydrology (UPH) □a community perspective. *Hydrological Sciences Journal*, **2019**, 64, 1141-1158	3.5	259
37	Uncertainties in Snowpack Simulations□Assessing the Impact of Model Structure, Parameter Choice, and Forcing Data Error on Point-Scale Energy Balance Snow Model Performance. *Water Resources Research*, **2019**, 55, 2779-2800	5.4	34
36	A Novel Data Fusion Technique for Snow Cover Retrieval. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2019**, 12, 2862-2877	4.7	8
35	A 5 km Resolution Regional Climate Simulation for Central Europe: Performance in High Mountain Areas and Seasonal, Regional and Elevation-Dependent Variations. *Atmosphere*, **2019**, 10, 682	2.7	13
34	□eflon Basin□or Not? A High-Elevation Catchment Transit Time Modeling Approach. *Hydrology*, **2019**, 6, 92	2.8	1
33	Agent-Based Modelling of a Coupled Water Demand and Supply System at the Catchment Scale. *Sustainability*, **2019**, 11, 6178	3.6	6
32	Storylines of combined future land use and climate scenarios and their hydrological impacts in an Alpine catchment (Brixental/Austria). *Science of the Total Environment*, **2019**, 657, 746-763	10.2	10

31	Spatio-temporal tracer variability in the glacier melt end-member How does it affect hydrograph separation results?. *Hydrological Processes*, **2018**, 32, 1828-1843	3.3	25
30	The Rofental: a high Alpine research basin (1890 3770 m a.s.l.) in the Ötztal Alps (Austria) with over 150 years of hydrometeorological and glaciological observations. *Earth System Science Data*, **2018**, 10, 151-171	10.5	16
29	Modelling forest snow processes with a new version of WaSiM. *Hydrological Sciences Journal*, **2018**, 63, 1540-1557	3.5	13
28	Wo kommt das Wasser her? Tracerbasierte Analysen im Rofental (Ötztaler Alpen, sterreich). *Osterreichische Wasser- Und Abfallwirtschaft*, **2018**, 70, 507-514	0.4	1
27	Simulation of Past Changes in the Austrian Snow Cover 1948 2009. *Journal of Hydrometeorology*, **2018**, 19, 1529-1545	3.7	7
26	ESM-SnowMIP: assessing snow models and quantifying snow-related climate feedbacks. *Geoscientific Model Development*, **2018**, 11, 5027-5049	6.3	62
25	The Role of Transdisciplinary Research for Agricultural Climate Change Adaptation Strategies. *Agronomy*, **2018**, 8, 237	3.6	7
24	ESM-SnowMIP: Assessing models and quantifying snow-related climate feedbacks **2018**,		3
23	Retrospective forecasts of the upcoming winter season snow accumulation in the Inn headwaters (European Alps). *Hydrology and Earth System Sciences*, **2018**, 22, 1157-1173	5.5	2
22	The European mountain cryosphere: a review of its current state, trends, and future challenges. *Cryosphere*, **2018**, 12, 759-794	5.5	244
21	Projected cryospheric and hydrological impacts of 21st century climate change in the Ötztal Alps (Austria) simulated using a physically based approach. *Hydrology and Earth System Sciences*, **2018**, 22, 1593-1614	5.5	36
20	The importance of snowmelt spatiotemporal variability for isotope-based hydrograph separation in a high-elevation catchment. *Hydrology and Earth System Sciences*, **2016**, 20, 5015-5033	5.5	36
19	ESCIMO.spread (v2): parameterization of a spreadsheet-based energy balance snow model for inside-canopy conditions. *Geoscientific Model Development*, **2016**, 9, 633-646	6.3	6
18	An open-source MEteoroLOgical observation time series DISaggregation Tool (MELODIST v0.1.1). *Geoscientific Model Development*, **2016**, 9, 2315-2333	6.3	25
17	Multilevel spatiotemporal validation of snow/ice mass balance and runoff modeling in glacierized catchments. *Cryosphere*, **2016**, 10, 1859-1881	5.5	43
16	Scenarios of Future Snow Conditions in Styria (Austrian Alps). *Journal of Hydrometeorology*, **2015**, 16, 261-277	3.7	32
15	Effect of meteorological forcing and snow model complexity on hydrological simulations in the Sieber catchment (Harz Mountains, Germany). *Hydrology and Earth System Sciences*, **2014**, 18, 4703-4720	5.5	33
14	Distributed, explicit modeling of technical snow production for a ski area in the Schladming region (Austrian Alps). *Cold Regions Science and Technology*, **2014**, 108, 113-124	3.8	32

13	Coupled component modelling for inter- and transdisciplinary climate change impact research: Dimensions of integration and examples of interface design. *Environmental Modelling and Software*, **2014**, 60, 180-187	5.2	20
12	Modeling Snow□Canopy Processes on an Idealized Mountain. *Journal of Hydrometeorology*, **2011**, 12, 663-677	3.7	50
11	Evaluation of forest snow processes models (SnowMIP2). *Journal of Geophysical Research*, **2009**, 114,		250
10	Using Subgrid Parameterisation and a Forest Canopy Climate Model for Improving Forecasts of Snowmelt Runoff **2006**, 29-44		
9	An enhanced temperature-index glacier melt model including the shortwave radiation balance: development and testing for Haut Glacier d□Arolla, Switzerland. *Journal of Glaciology*, **2005**, 51, 573-587	3.4	267
8	Simulation of daily discharges for the upper Durance catchment (French Alps) using subgrid parameterization for topography and a forest canopy climate model. *Hydrological Processes*, **2005**, 19, 2361-2373	3.3	11
7	Spatial and temporal variability of meteorological variables at Haut Glacier d'Arolla (Switzerland) during the ablation season 2001: Measurements and simulations. *Journal of Geophysical Research*, **2004**, 109, n/a-n/a		67
6	Validation of the energy budget of an alpine snowpack simulated by several snow models (Snow MIP project). *Annals of Glaciology*, **2004**, 38, 150-158	2.5	176
5	Modelling Mountainous Water Systems Between Learning and Speculating Looking for Challenges **2002**, 33, 47-74		13
4	Modelling the spatial and temporal variations of the water balance for the Weser catchment 1965□1994. *Journal of Hydrology*, **2001**, 254, 199-214	6	55
3	Including Parameter Uncertainty in an Intercomparison of Physically-Based Snow Models. *Frontiers in Earth Science*,8,	3.5	1
2	Projected cryospheric and hydrological impacts of 21st century climate change in the □ztal Alps (Austria) simulated using a physically based approach		4
1	A snow and ice melt seasonal prediction modelling system for Alpine reservoirs. *Proceedings of the International Association of Hydrological Sciences*,374, 143-150		4