

Ulrich Strasser

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	An enhanced temperature-index glacier melt model including the shortwave radiation balance: development and testing for Haut Glacier d'Arolla, Switzerland. <i>Journal of Glaciology</i> , 2005 , 51, 573-587	3.4	267
47	Twenty-three unsolved problems in hydrology (UPH) – a community perspective. <i>Hydrological Sciences Journal</i> , 2019 , 64, 1141-1158	3.5	259
46	Evaluation of forest snow processes models (SnowMIP2). <i>Journal of Geophysical Research</i> , 2009 , 114,		250
45	The European mountain cryosphere: a review of its current state, trends, and future challenges. <i>Cryosphere</i> , 2018 , 12, 759-794	5.5	244
44	Validation of the energy budget of an alpine snowpack simulated by several snow models (Snow MIP project). <i>Annals of Glaciology</i> , 2004 , 38, 150-158	2.5	176
43	Spatial and temporal variability of meteorological variables at Haut Glacier d'Arolla (Switzerland) during the ablation season 2001: Measurements and simulations. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		67
42	ESM-SnowMIP: assessing snow models and quantifying snow-related climate feedbacks. <i>Geoscientific Model Development</i> , 2018 , 11, 5027-5049	6.3	62
41	Modelling the spatial and temporal variations of the water balance for the Weser catchment 1965–1994. <i>Journal of Hydrology</i> , 2001 , 254, 199-214	6	55
40	Modeling Snow-Canopy Processes on an Idealized Mountain. <i>Journal of Hydrometeorology</i> , 2011 , 12, 663-677	3.7	50
39	Multilevel spatiotemporal validation of snow/ice mass balance and runoff modeling in glacierized catchments. <i>Cryosphere</i> , 2016 , 10, 1859-1881	5.5	43
38	The importance of snowmelt spatiotemporal variability for isotope-based hydrograph separation in a high-elevation catchment. <i>Hydrology and Earth System Sciences</i> , 2016 , 20, 5015-5033	5.5	36
37	Projected cryospheric and hydrological impacts of 21st-century climate change in the Eitzal Alps (Austria) simulated using a physically based approach. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 1593-1614	5.5	36
36	Uncertainties in Snowpack Simulations – Assessing the Impact of Model Structure, Parameter Choice, and Forcing Data Error on Point-Scale Energy Balance Snow Model Performance. <i>Water Resources Research</i> , 2019 , 55, 2779-2800	5.4	34
35	Effect of meteorological forcing and snow model complexity on hydrological simulations in the Sieber catchment (Harz Mountains, Germany). <i>Hydrology and Earth System Sciences</i> , 2014 , 18, 4703-4720	5.5	33
34	Scenarios of Future Snow Conditions in Styria (Austrian Alps). <i>Journal of Hydrometeorology</i> , 2015 , 16, 261-277	3.7	32
33	Distributed, explicit modeling of technical snow production for a ski area in the Schladming region (Austrian Alps). <i>Cold Regions Science and Technology</i> , 2014 , 108, 113-124	3.8	32
32	Spatio-temporal tracer variability in the glacier melt end-member – How does it affect hydrograph separation results?. <i>Hydrological Processes</i> , 2018 , 32, 1828-1843	3.3	25

31	Observed snow depth trends in the European Alps: 1971 to 2019. <i>Cryosphere</i> , 2021 , 15, 1343-1382	5.5	25
30	An open-source MEteoroLOGical observation time series DISaggregation Tool (MELODIST v0.1.1). <i>Geoscientific Model Development</i> , 2016 , 9, 2315-2333	6.3	25
29	Coupled component modelling for inter- and transdisciplinary climate change impact research: Dimensions of integration and examples of interface design. <i>Environmental Modelling and Software</i> , 2014 , 60, 180-187	5.2	20
28	The Rofental: a high Alpine research basin (1890B770 m a.s.l.) in the Eztal Alps (Austria) with over 150 years of hydrometeorological and glaciological observations. <i>Earth System Science Data</i> , 2018 , 10, 151-171	10.5	16
27	A 5 km Resolution Regional Climate Simulation for Central Europe: Performance in High Mountain Areas and Seasonal, Regional and Elevation-Dependent Variations. <i>Atmosphere</i> , 2019 , 10, 682	2.7	13
26	Modelling Mountainous Water Systems Between Learning and Speculating Looking for Challenges 2002 , 33, 47-74		13
25	Scientific and Human Errors in a Snow Model Intercomparison. <i>Bulletin of the American Meteorological Society</i> , 2021 , 102, E61-E79	6.1	13
24	Modelling forest snow processes with a new version of WaSiM. <i>Hydrological Sciences Journal</i> , 2018 , 63, 1540-1557	3.5	13
23	Simulation of daily discharges for the upper Durance catchment (French Alps) using subgrid parameterization for topography and a forest canopy climate model. <i>Hydrological Processes</i> , 2005 , 19, 2361-2373	3.3	11
22	Storylines of combined future land use and climate scenarios and their hydrological impacts in an Alpine catchment (Brixental/Austria). <i>Science of the Total Environment</i> , 2019 , 657, 746-763	10.2	10
21	The multiplicity of analysis strategies jeopardizes replicability: lessons learned across disciplines. <i>Royal Society Open Science</i> , 2021 , 8, 201925	3.3	9
20	Overloaded! Critical revision and a new conceptual approach for snow indicators in ski tourism. <i>International Journal of Biometeorology</i> , 2021 , 65, 691-701	3.7	9
19	Simulation of snow management in Alpine ski resorts using three different snow models. <i>Cold Regions Science and Technology</i> , 2020 , 172, 102995	3.8	8
18	A Novel Data Fusion Technique for Snow Cover Retrieval. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019 , 12, 2862-2877	4.7	8
17	Simulation of Past Changes in the Austrian Snow Cover 1948B009. <i>Journal of Hydrometeorology</i> , 2018 , 19, 1529-1545	3.7	7
16	The Role of Transdisciplinary Research for Agricultural Climate Change Adaptation Strategies. <i>Agronomy</i> , 2018 , 8, 237	3.6	7
15	ESCIMO.spread (v2): parameterization of a spreadsheet-based energy balance snow model for inside-canopy conditions. <i>Geoscientific Model Development</i> , 2016 , 9, 633-646	6.3	6
14	Agent-Based Modelling of a Coupled Water Demand and Supply System at the Catchment Scale. <i>Sustainability</i> , 2019 , 11, 6178	3.6	6

13	Projected cryospheric and hydrological impacts of 21st century climate change in the Ötztal Alps (Austria) simulated using a physically based approach		4
12	A snow and ice melt seasonal prediction modelling system for Alpine reservoirs. <i>Proceedings of the International Association of Hydrological Sciences</i> , 374, 143-150		4
11	Improving SWE Estimation by Fusion of Snow Models with Topographic and Remotely Sensed Data. <i>Remote Sensing</i> , 2019, 11, 2033	5	3
10	Integrating Models and Remote Sensing Data for Distributed Glacier Mass Balance Estimation. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 6177-6194	4-7	3
9	ESM-SnowMIP: Assessing models and quantifying snow-related climate feedbacks 2018,		3
8	Elevation-dependent compensation effects in snowmelt in the Rhine River Basin upstream gauge Basel 2021, 52, 536-557		2
7	Retrospective forecasts of the upcoming winter season snow accumulation in the Inn headwaters (European Alps). <i>Hydrology and Earth System Sciences</i> , 2018, 22, 1157-1173	5-5	2
6	Including Parameter Uncertainty in an Intercomparison of Physically-Based Snow Models. <i>Frontiers in Earth Science</i> , 8,	3-5	1
5	Spatio-temporal assessment of the hydrological drivers of an active deep-seated gravitational slope deformation: The Völsberg landslide in Tyrol (Austria). <i>Earth Surface Processes and Landforms</i> , 2021, 46, 1865-1881	3-7	1
4	Ötztal Basin – Or Not? A High-Elevation Catchment Transit Time Modeling Approach. <i>Hydrology</i> , 2019, 6, 92	2-8	1
3	Wo kommt das Wasser her? Tracerbasierte Analysen im Rofental (Ötztaler Alpen, Österreich). <i>Osterreichische Wasser- Und Abfallwirtschaft</i> , 2018, 70, 507-514	0-4	1
2	Evaluating a prediction system for snow management. <i>Cryosphere</i> , 2021, 15, 3949-3973	5-5	1
1	Using Subgrid Parameterisation and a Forest Canopy Climate Model for Improving Forecasts of Snowmelt Runoff 2006, 29-44		