Nadine Salzmann

List of Publications by Year
in descending order

54 papers	2,489 citations	201674 27 h-index	223800 46 g-index
61 all docs	61 docs citations	61 times ranked	2993 citing authors

#	Article	IF	Citations
1	Remote sensing of glacier- and permafrost-related hazards in high mountains: an overview. Natural Hazards and Earth System Sciences, 2005, 5, 527-554.	3.6	217
2	Estimating the volume of glaciers in the Himalayanâ€“Karakoram region using different methods. Cryosphere, 2014, 8, 2313-2333.	3.9	203
3	Rapid decline of snow and ice in the tropical Andes â€“ Impacts, uncertainties and challenges ahead. Earth-Science Reviews, 2018, 176, 195-213.	9.1	203
4	Three-dimensional distribution and evolution of permafrost temperatures in idealized high-mountain topography. Journal of Geophysical Research, 2007, 112, .	3.3	196
5	Recent and future warm extreme events and high-mountain slope stability. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 2435-2459.	3.4	147
6	Climate trends and glacier retreat in the Cordillera Blanca, Peru, revisited. Global and Planetary Change, 2014, 119, 85-97.	3.5	113
7	Glacier changes and climate trends derived from multiple sources in the data scarce Cordillera Vilcanota region, southern Peruvian Andes. Cryosphere, 2013, 7, 103-118.	3.9	101
8	High uncertainty in 21st century runoff projections from glacierized basins. Journal of Hydrology, 2014, 510, 35-48.	5.4	89
9	The application of Regional Climate Model output for the simulation of high-mountain permafrost scenarios. Global and Planetary Change, 2007, 56, 188-202.	3.5	72
10	Facing unprecedented drying of the Central Andes? Precipitation variability over the period AD 1000â€“2100. Environmental Research Letters, 2015, 10, 084017.	5.2	65
11	Recent glacier and lake changes in High Mountain Asia and their relation to precipitation changes. Cryosphere, 2019, 13, 2977-3005.	3.9	64
12	Re-analysis of seasonal mass balance at Abramov glacier 1968â€“2014. Journal of Glaciology, 2015, 61, 1103-1117.	2.2	59
13	Remotely sensed debris thickness mapping of Bara Shigri Glacier, Indian Himalaya. Journal of Glaciology, 2015, 61, 675-688.	2.2	58
14	Modeled sensitivity of two alpine permafrost sites to RCMâ€based climate scenarios. Journal of Geophysical Research F: Earth Surface, 2013, 118, 780-794.	2.8	54
15	The freezing level in the tropical Andes, Peru: An indicator for present and future glacier extents. Journal of Geophysical Research D: Atmospheres, 2017, 122, 5172-5189.	3.3	52
16	Assessment of the hazard potential of ice avalanches using remote sensing and GISâ€modelling. Norsk Geografisk Tidsskrift, 2004, 58, 74-84.	0.7	50
17	Missing (in-situ) snow cover data hampers climate change and runoff studies in the Greater Himalayas. Science of the Total Environment, 2013, 468-469, S60-S70.	8.0	47
18	A framework for the science contribution in climate adaptation: Experiences from science-policy processes in the Andes. Environmental Science and Policy, 2015, 47, 80-94.	4.9	45

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19	How useful and reliable are disaster databases in the context of climate and global change? A comparative case study analysis in Peru. Natural Hazards and Earth System Sciences, 2015, 15, 475-485.	3.6	44
20	Robust climate scenarios for sites with sparse observations: a twoâ€step bias correction approach. International Journal of Climatology, 2016, 36, 1226-1243.	3.5	44
21	Permafrost model sensitivity to seasonal climatic changes and extreme events in mountainous regions. Environmental Research Letters, 2013, 8, 035048.	5.2	41
22	Data and knowledge gaps in glacier, snow and related runoff research â€“ A climate change adaptation perspective. Journal of Hydrology, 2014, 518, 225-234.	5.4	41
23	Ground surface temperature scenarios in complex high-mountain topography based on regional climate model results. Journal of Geophysical Research, 2007, 112, .	3.3	40
24	Mass Balance Re-analysis of Findelengletscher, Switzerland; Benefits of Extensive Snow Accumulation Measurements. Frontiers in Earth Science, 2016, 4, .	1.8	40
25	Assessing the Performance of Multiple Regional Climate Model Simulations for Seasonal Mountain Snow in the Upper Colorado River Basin. Journal of Hydrometeorology, 2012, 13, 539-556.	1.9	39
26	GISâ€based modeling of glacial hazards and their interactions using Landsatâ€TM and IKONOS imagery. Norsk Geografisk Tidsskrift, 2004, 58, 61-73.	0.7	36
27	Towards remote monitoring of sub-seasonal glacier mass balance. Annals of Glaciology, 2013, 54, 75-83.	1.4	34
28	Re-establishing glacier monitoring in Kyrgyzstan and Uzbekistan, Central Asia. Geoscientific Instrumentation, Methods and Data Systems, 2017, 6, 397-418.	1.6	29
29	Continuous and autonomous snow water equivalent measurements by a cosmic ray sensor on an alpine glacier. Cryosphere, 2019, 13, 3413-3434.	3.9	29
30	Semi-automated calibration method for modelling of mountain permafrost evolution in Switzerland. Cryosphere, 2016, 10, 2693-2719.	3.9	25
31	Integrated assessment and adaptation to climate change impacts in the Peruvian Andes. Advances in Geosciences, 0, 22, 35-39.	12.0	25
32	Permafrost Studies in Kullu District, Himachal Pradesh. Current Science, 2016, 111, 550.	0.8	24
33	The Swiss Alpine glaciersâ€™ response to the global â€˜2â€‰Â°C air temperature targetâ€™. Environmental Research Letters, 2012, 7, 044001.	5.2	23
34	Scientific Knowledge and Knowledge Needs in Climate Adaptation Policy: A Case Study of Diverse Mountain Regions. Mountain Research and Development, 2016, 36, 364.	1.0	22
35	Influence of atmospheric forcing parameters on modelled mountain permafrost evolution. Meteorologische Zeitschrift, 2010, 19, 491-500.	1.0	21
36	IN BOX. Bulletin of the American Meteorological Society, 2008, 89, 1275-1284.	3.3	15

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37	The Projected Precipitation Reduction over the Central Andes may Severely Affect Peruvian Glaciers and Hydropower Production. Energy Procedia, 2016, 97, 270-277.	1.8	13
38	Glacier Monitoring and Capacity Building: Important Ingredients for Sustainable Mountain Development. Mountain Research and Development, 2017, 37, 141-152.	1.0	10
39	Early warning systems: The â€œlast mileâ€•of adaptation. Eos, 2012, 93, 209-210.	0.1	8
40	Comparison of climatic trends and variability among glacierized environments in the Western Himalayas. Theoretical and Applied Climatology, 2018, 134, 155-163.	2.8	8
41	Temperature, precipitation and related extremes in mountain areas. , 2015, , 28-49.		7
42	Can Weather Radars Be Used to Estimate Snow Accumulation on Alpine Glaciers? An Evaluation Based on Glaciological Surveys. Journal of Hydrometeorology, 2020, 21, 2943-2962.	1.9	7
43	Continuous Spatio-Temporal High-Resolution Estimates of SWE Across the Swiss Alps â€“ A Statistical Two-Step Approach for High-Mountain Topography. Frontiers in Earth Science, 2021, 9, .	1.8	6
44	Estimation of snowfall limit for the Kashmir Valley, Indian Himalayas, with TRMMÂPR Bright Band information. Meteorologische Zeitschrift, 2016, 25, 501-509.	1.0	5
45	Multi-sensor analysis of monthly gridded snow precipitation on alpine glaciers. Advances in Science and Research, 0, 18, 7-20.	1.0	4
46	An Integrative and Joint Approach to Climate Impacts, Hydrological Risks and Adaptation in the Indian Himalayan Region. , 2020, , 553-573.		3
47	Brief communication: Application of a muonic cosmic ray snow gauge to monitor the snow water equivalent on alpine glaciers. Cryosphere, 2022, 16, 799-806.	3.9	2
48	Providing scientific basis for climate change adaptation strategies in the Andes region. IOP Conference Series: Earth and Environmental Science, 2009, 6, 392009.	0.3	1
49	Science in the Context of Climate Change Adaptation: Case Studies from the Peruvian Andes. , 2016, , 41-58.		1
50	Climate corridors for strategic adaptation planning. International Journal of Climate Change Strategies and Management, 2017, 9, 811-828.	2.9	1
51	Climate change research in bilateral development programmes: experiences from India and Peru. Development in Practice, 2019, 29, 336-348.	1.3	1
52	Influence of different digital terrain models (DTMs)on alpine permafrost modeling. Environmental Modeling and Assessment, 2007, 12, 303-313.	2.2	0
53	Setting the Scene: Adapting to Climate Change â€“ A Large-Scale Challenge with Local-Scale Impacts. , 2016, , 3-15.		0
54	The potential of new measurement and modelling techniques in alpine cryosphere and geomorphology research. Geographica Helvetica, 2012, 67, 26-37.	0.8	0