

# Christian Huggel

## List of Publications by Year in descending order

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Version: 2024-02-01

78  
papers

6,118  
citations

76326

40  
h-index

74163

75  
g-index

128  
all docs

128  
docs citations

128  
times ranked

4776  
citing authors

#	ARTICLE	IF	CITATIONS
1	Current state of glaciers in the tropical Andes: a multi-century perspective on glacier evolution and climate change. <i>Cryosphere</i> , 2013, 7, 81-102.	3.9	470
2	Toward mountains without permanent snow and ice. <i>Earth's Future</i> , 2017, 5, 418-435.	6.3	324
3	Is climate change responsible for changing landslide activity in high mountains?. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 77-91.	2.5	312
4	A massive rock and ice avalanche caused the 2021 disaster at Chamoli, Indian Himalaya. <i>Science</i> , 2021, 373, 300-306.	12.6	304
5	Climate change and the global pattern of moraine-dammed glacial lake outburst floods. <i>Cryosphere</i> , 2018, 12, 1195-1209.	3.9	219
6	Estimating the volume of glaciers in the Himalayanâ€“Karakoram region using different methods. <i>Cryosphere</i> , 2014, 8, 2313-2333.	3.9	203
7	Climate change impacts on mass movements â€” Case studies from the European Alps. <i>Science of the Total Environment</i> , 2014, 493, 1255-1266.	8.0	193
8	Massive collapse of two glaciers in western Tibet in 2016 after surge-like instability. <i>Nature Geoscience</i> , 2018, 11, 114-120.	12.9	189
9	An integrated socio-environmental framework for glacier hazard management and climate change adaptation: lessons from Lake 513, Cordillera Blanca, Peru. <i>Climatic Change</i> , 2012, 112, 733-767.	3.6	188
10	Glacial lakes in the Indian Himalayas â€” From an area-wide glacial lake inventory to on-site and modeling based risk assessment of critical glacial lakes. <i>Science of the Total Environment</i> , 2013, 468-469, S71-S84.	8.0	175
11	Lake outburst and debris flow disaster at Kedarnath, June 2013: hydrometeorological triggering and topographic predisposition. <i>Landslides</i> , 2016, 13, 1479-1491.	5.4	165
12	On the influence of topographic, geological and cryospheric factors on rock avalanches and rockfalls in high-mountain areas. <i>Natural Hazards and Earth System Sciences</i> , 2012, 12, 241-254.	3.6	152
13	Recent and future warm extreme events and high-mountain slope stability. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 2435-2459.	3.4	147
14	The Kolka-Karmadon rock/ice slide of 20 September 2002: an extraordinary event of historical dimensions in North Ossetia, Russian Caucasus. <i>Journal of Glaciology</i> , 2004, 50, 533-546.	2.2	127
15	Unraveling driving factors for large rockâ€“ice avalanche mobility. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 1948-1966.	2.5	117
16	Mapping hazards from glacier lake outburst floods based on modelling of process cascades at Lake 513, Carhuaz, Peru. <i>Advances in Geosciences</i> , 0, 35, 145-155.	12.0	116
17	Numerical modeling of the Mount Steller landslide flow history and of the generated long period seismic waves. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	108
18	Monitoring and prediction in early warning systems for rapid mass movements. <i>Natural Hazards and Earth System Sciences</i> , 2015, 15, 905-917.	3.6	107

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19	Glacial lake outburst flood risk in Himachal Pradesh, India: an integrative and anticipatory approach considering current and future threats. <i>Natural Hazards</i> , 2016, 84, 1741-1763.	3.4	103
20	Insights into rock-ice avalanche dynamics by combined analysis of seismic recordings and a numerical avalanche model. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	101
21	The importance of entrainment and bulking on debris flow runout modeling: examples from the Swiss Alps. <i>Natural Hazards and Earth System Sciences</i> , 2015, 15, 2569-2583.	3.6	98
22	Uncertainty in the Himalayan energy-water nexus: estimating regional exposure to glacial lake outburst floods. <i>Environmental Research Letters</i> , 2016, 11, 074005.	5.2	98
23	Extremely warm temperatures as a potential cause of recent high mountain rockfall. <i>Global and Planetary Change</i> , 2013, 107, 59-69.	3.5	91
24	New lakes in deglaciating high-mountain regions – opportunities and risks. <i>Climatic Change</i> , 2016, 139, 201-214.	3.6	88
25	Slope failures and erosion rates on a glacierized high-mountain face under climatic changes. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 836-846.	2.5	87
26	Loss and damage attribution. <i>Nature Climate Change</i> , 2013, 3, 694-696.	18.8	75
27	Sudden large-volume detachments of low-angle mountain glaciers – more frequent than thought?. <i>Cryosphere</i> , 2021, 15, 1751-1785.	3.9	63
28	The changing water cycle: climatic and socioeconomic drivers of water-related changes in the Andes of Peru. <i>Wiley Interdisciplinary Reviews: Water</i> , 2015, 2, 715-733.	6.5	62
29	Reconciling justice and attribution research to advance climate policy. <i>Nature Climate Change</i> , 2016, 6, 901-908.	18.8	61
30	Fast shrinkage of tropical glaciers in Colombia. <i>Annals of Glaciology</i> , 2006, 43, 194-201.	1.4	59
31	Remotely sensed debris thickness mapping of Bara Shigri Glacier, Indian Himalaya. <i>Journal of Glaciology</i> , 2015, 61, 675-688.	2.2	58
32	GIS-based modelling of rock-ice avalanches from Alpine permafrost areas. <i>Computational Geosciences</i> , 2006, 10, 161-178.	2.4	57
33	Future climate and cryosphere impacts on the hydrology of a scarcely gauged catchment on the Jhelum river basin, Northern Pakistan. <i>Science of the Total Environment</i> , 2018, 639, 961-976.	8.0	57
34	Research Perspectives on Unstable High-Alpine Bedrock Permafrost: Measurement, Modelling and Process Understanding. <i>Permafrost and Periglacial Processes</i> , 2012, 23, 80-88.	3.4	56
35	Monitoring topographic changes in a periglacial high-mountain face using high-resolution DTMs, Monte Rosa East Face, Italian Alps. <i>Permafrost and Periglacial Processes</i> , 2011, 22, 140-152.	3.4	55
36	Precursory seismicity associated with frequent, large ice avalanches on Iliamna volcano, Alaska, USA. <i>Journal of Glaciology</i> , 2007, 53, 128-140.	2.2	52

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37	The freezing level in the tropical Andes, Peru: An indicator for present and future glacier extents. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 5172-5189.	3.3	52
38	Managing risks and future options from new lakes in the deglaciating Andes of Peru: The example of the Vilcanota-Urubamba basin. <i>Science of the Total Environment</i> , 2019, 665, 465-483.	8.0	51
39	Implementation and integrated numerical modeling of a landslide early warning system: a pilot study in Colombia. <i>Natural Hazards</i> , 2010, 52, 501-518.	3.4	50
40	Ice thawing, mountains falling—are alpine rock slope failures increasing?. <i>Geology Today</i> , 2012, 28, 98-104.	0.9	47
41	How useful and reliable are disaster databases in the context of climate and global change? A comparative case study analysis in Peru. <i>Natural Hazards and Earth System Sciences</i> , 2015, 15, 475-485.	3.6	44
42	New land in the Neotropics: a review of biotic community, ecosystem, and landscape transformations in the face of climate and glacier change. <i>Regional Environmental Change</i> , 2019, 19, 1623-1642.	2.9	44
43	A risk analysis for floods and lahars: case study in the Cordillera Central of Colombia. <i>Natural Hazards</i> , 2012, 64, 767-796.	3.4	40
44	Anthropogenic climate change and glacier lake outburst flood risk: local and global drivers and responsibilities for the case of lake Palcacocha, Peru. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 2175-2193.	3.6	40
45	Potential and limitations of the attribution of climate change impacts for informing loss and damage discussions and policies. <i>Climatic Change</i> , 2015, 133, 453-467.	3.6	39
46	Toward an imminent extinction of Colombian glaciers?. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2018, 100, 75-95.	1.5	39
47	Review and reassessment of hazards owing to volcano-glacier interactions in Colombia. <i>Annals of Glaciology</i> , 2007, 45, 128-136.	1.4	37
48	Debris flows in the Swiss National Park: the influence of different flow models and varying DEM grid size on modeling results. <i>Landslides</i> , 2008, 5, 311-319.	5.4	37
49	Recent Extreme Avalanches: Triggered by Climate Change?. <i>Eos</i> , 2008, 89, 469-470.	0.1	35
50	Supra-glacial deposition and flux of catastrophic rock-slope failure debris, south-central Alaska. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 675-682.	2.5	35
51	Regional-scale landslide susceptibility modelling in the Cordillera Blanca, Peru—a comparison of different approaches. <i>Landslides</i> , 2019, 16, 395-407.	5.4	35
52	Database of glacial lake outburst floods (GLOFs)—IPL project No. 179. <i>Landslides</i> , 2014, 11, 161-165.	5.4	34
53	Ice-avalanche scenario elaboration and uncertainty propagation in numerical simulation of rock-ice-avalanche-induced impact waves at Mount Hualcın and Lake 513, Peru. <i>Landslides</i> , 2016, 13, 1445-1459.	5.4	32
54	Climate change in the mountain cryosphere: impacts and responses. <i>Regional Environmental Change</i> , 2019, 19, 1225-1228.	2.9	32

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55	Limits and challenges to compiling and developing a database of glacial lake outburst floods. <i>Landslides</i> , 2016, 13, 1579-1584.	5.4	31
56	Loss and Damage in the mountain cryosphere. <i>Regional Environmental Change</i> , 2019, 19, 1387-1399.	2.9	30
57	Changing debris flow activity after sudden sediment input: a case study from the Swiss Alps. <i>Geology Today</i> , 2017, 33, 216-223.	0.9	28
58	Climate change-related risks and adaptation potential in Central and South America during the 21st century. <i>Environmental Research Letters</i> , 2022, 17, 033002.	5.2	27
59	A robust debris-flow and GLOF risk management strategy for a data-scarce catchment in Santa Teresa, Peru. <i>Landslides</i> , 2016, 13, 1493-1507.	5.4	26
60	Losses and damages connected to glacier retreat in the Cordillera Blanca, Peru. <i>Climatic Change</i> , 2020, 162, 837-858.	3.6	26
61	Glacial lake depth and volume estimation based on a large bathymetric dataset from the Cordillera Blanca, Peru. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 1510-1527.	2.5	25
62	Climatic and hydrological projections to changing climate under CORDEX-South Asia experiments over the Karakoram-Hindukush-Himalayan water towers. <i>Science of the Total Environment</i> , 2020, 703, 135010.	8.0	23
63	Risk estimation for future glacier lake outburst floods based on local land-use changes. <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 1611-1624.	3.6	22
64	Scientific Knowledge and Knowledge Needs in Climate Adaptation Policy: A Case Study of Diverse Mountain Regions. <i>Mountain Research and Development</i> , 2016, 36, 364.	1.0	22
65	Landslides and increased debris flow activity: A systematic comparison of six catchments in Switzerland. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 699-712.	2.5	22
66	The 2020 glacial lake outburst flood process chain at Lake Salkantaycocha (Cordillera Vilcabamba, Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50	5.4	22
67	Analysis of Weather- and Climate-Related Disasters in Mountain Regions Using Different Disaster Databases. <i>Sustainable Development Goals Series</i> , 2018, , 17-41.	0.4	21
68	Inventory and evolution of glacial lakes since the Little Ice Age: Lessons from the case of Switzerland. <i>Earth Surface Processes and Landforms</i> , 2021, 46, 2551-2564.	2.5	18
69	Area changes of glaciers on active volcanoes in Latin America between 1986 and 2015 observed from multi-temporal satellite imagery. <i>Journal of Glaciology</i> , 2019, 65, 542-556.	2.2	17
70	Ten years of monthly mass balance of Conejeras glacier, Colombia, and their evaluation using different interpolation methods. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2017, 99, 155-176.	1.5	13
71	Differentiating regions for adaptation financing: the role of global vulnerability and risk distributions. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2017, 8, e447.	8.1	13
72	Precipitation Characteristics at Two Locations in the Tropical Andes by Means of Vertically Pointing Micro-Rain Radar Observations. <i>Remote Sensing</i> , 2019, 11, 2985.	4.0	13

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73	Early warning systems: The "last mile" of adaptation. <i>Eos</i> , 2012, 93, 209-210.	0.1	8
74	Towards integrated assessments of water risks in deglaciating mountain areas: water scarcity and GLOF risk in the Peruvian Andes. <i>Geoenvironmental Disasters</i> , 2020, 7, 26.	3.6	6
75	Evolution of the largest glacier in Mexico (Glaciar Norte) since the 50s: factors driving glacier retreat. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2019, 101, 350-373.	1.5	5
76	Developing a science-based policy network over the Upper Indus Basin. <i>Science of the Total Environment</i> , 2021, 784, 147067.	8.0	5
77	Reply to the comments by Kochtitzky and Edwards (2020) on the study "Area changes of glaciers on active volcanoes in Latin America" by Reinthaler and others (2019). <i>Journal of Glaciology</i> , 2020, 66, 887-888.	2.2	0
78	14. Climate adaptation limits and the right to food security. , 2021, , .		0