Bernd EtzelmÃ¼ller

List of Publications by Year
in descending order

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60 papers	5,120 citations	147801 31 h-index	128289 60 g-index
89 all docs	89 docs citations	89 times ranked	4126 citing authors

#	Article	IF	Citations
1	Permafrost is warming at a global scale. Nature Communications, 2019, 10, 264.	12.8	1,039
2	Permafrost and climate in Europe: Monitoring and modelling thermal, geomorphological and geotechnical responses. Earth-Science Reviews, 2009, 92, 117-171.	9.1	499
3	Northern Hemisphere permafrost map based on TTOP modelling for 2000â€“2016 at 1â€¯km2 scale. Earth-Science Reviews, 2019, 193, 299-316.	9.1	462
4	Recent advances in permafrost modelling. Permafrost and Periglacial Processes, 2008, 19, 137-156.	3.4	327
5	Degrading permafrost puts Arctic infrastructure at risk by mid-century. Nature Communications, 2018, 9, 5147.	12.8	327
6	The assessment of potential geotechnical hazards associated with mountain permafrost in a warming global climate. Permafrost and Periglacial Processes, 2001, 12, 145-156.	3.4	144
7	Surface energy fluxes and distribution models of permafrost in European mountain areas: an overview of current developments. Permafrost and Periglacial Processes, 2001, 12, 53-68.	3.4	115
8	Transient thermal modeling of permafrost conditions in Southern Norway. Cryosphere, 2013, 7, 719-739.	3.9	113
9	The regional distribution of mountain permafrost in Iceland. Permafrost and Periglacial Processes, 2007, 18, 185-199.	3.4	108
10	Simulating the thermal regime and thaw processes of ice-rich permafrost ground with the land-surface model CryoGrid 3. Geoscientific Model Development, 2016, 9, 523-546.	3.6	104
11	Permafrost Map for Norway, Sweden and Finland. Permafrost and Periglacial Processes, 2017, 28, 359-378.	3.4	92
12	Degrading Mountain Permafrost in Southern Norway: Spatial and Temporal Variability of Mean Ground Temperatures, 1999â€“2009. Permafrost and Periglacial Processes, 2011, 22, 361-377.	3.4	87
13	A ground temperature map of the North Atlantic permafrost region based on remote sensing and reanalysis data. Cryosphere, 2015, 9, 1303-1319.	3.9	82
14	Glacier-permafrost interaction in Arctic and alpine mountain environments with examples from southern Norway and Svalbard. Geological Society Special Publication, 2005, 242, 11-27.	1.3	80
15	Characteristics of Discontinuous Permafrost based on Ground Temperature Measurements and Electrical Resistivity Tomography, Southern Yukon, Canada. Permafrost and Periglacial Processes, 2011, 22, 320-342.	3.4	80
16	A statistical approach to represent small-scale variability of permafrost temperatures due to snow cover. Cryosphere, 2014, 8, 2063-2074.	3.9	78
17	Rock Glaciers on Prins Karls Forland. II: GPR Soundings and the Development of Internal Structures. Permafrost and Periglacial Processes, 2000, 11, 357-369.	3.4	77
18	Mountain permafrost distribution modelling using a multi-criteria approach in the HÃ¶vsgÃ¶l area, northern Mongolia. Permafrost and Periglacial Processes, 2006, 17, 91-104.	3.4	75

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19	A regional inventory of rock glaciers and iceâ€cored moraines in norway. Geografiska Annaler, Series A: Physical Geography, 2011, 93, 175-191.	1.5	75
20	Terrain parameters and remote sensing data in the analysis of permafrost distribution and periglacial processes: principles and examples from southern Norway. Permafrost and Periglacial Processes, 2001, 12, 79-92.	3.4	68
21	Strong degradation of palsas and peat plateaus in northern Norway during the last 60Âyears. Cryosphere, 2017, 11, 1-16.	3.9	68
22	Glacier characteristics and sediment transfer system of Longyearbreen and Larsbreen, western Spitsbergen. Norsk Geografisk Tidsskrift, 2000, 54, 157-168.	0.7	64
23	Air and Ground Temperature Variations Observed along Elevation and Continentality Gradients in Southern Norway. Permafrost and Periglacial Processes, 2011, 22, 343-360.	3.4	59
24	Recent Advances in Mountain Permafrost Research. Permafrost and Periglacial Processes, 2013, 24, 99-107.	3.4	59
25	Rock glaciers on Prins Karls Forland, Svalbard. I: internal structure, flow velocity and morphology. Permafrost and Periglacial Processes, 1998, 9, 135-145.	3.4	58
26	Ground Thermal Regime and Permafrost Distribution under a Changing Climate in Northern Norway. Permafrost and Periglacial Processes, 2013, 24, 20-38.	3.4	57
27	Small-scale variation of snow in a regional permafrost model. Cryosphere, 2016, 10, 1201-1215.	3.9	56
28	Circumpolar permafrost maps and geohazard indices for near-future infrastructure risk assessments. Scientific Data, 2019, 6, 190037.	5.3	51
29	Twenty years of European mountain permafrost dynamicsâ€"the PACE legacy. Environmental Research Letters, 2020, 15, 104070.	5.2	50
30	Mountain permafrost in Central-Eastern Norway. Norsk Geografisk Tidsskrift, 2005, 59, 94-108.	0.7	46
31	Transient modeling of the ground thermal conditions using satellite data in the Lena River delta, Siberia. Cryosphere, 2017, 11, 1441-1463.	3.9	41
32	Factors Controlling The Distribution of Mountain Permafrost in The Northern Hemisphere and Their Influence on Sediment Transfer. Arctic, Antarctic, and Alpine Research, 2009, 41, 48-58.	1.1	33
33	Thermal regime of a valley glacier, Erikbreen, northern Spitsbergen. Polar Research, 1992, 11, 69-79.	1.6	30
34	Runoff and drainage pattern derived from digital elevation models, Finsterwalderbreen, Svalbard. Annals of Glaciology, 2000, 31, 147-152.	1.4	30
35	Multiple rock-slope failures from Mannen in Romsdal Valley, western Norway, revealed from Quaternary geological mapping and ¹⁰Be exposure dating. Holocene, 2018, 28, 1841-1854.	1.7	29
36	Permafrost distribution in steep rock slopes in Norway: measurements, statistical modelling and implications for geomorphological processes. Earth Surface Dynamics, 2019, 7, 1019-1040.	2.4	28

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37	High potential for loss of permafrost landforms in a changing climate. Environmental Research Letters, 2020, 15, 104065.	5.2	28
38	Terrain changes from images acquired on opportunistic flights by SfM photogrammetry. Cryosphere, 2017, 11, 827-840.	3.9	23
39	Permafrost as a first order control on long-term rock-slope deformation in (Sub-)Arctic Norway. Quaternary Science Reviews, 2021, 251, 106718.	3.0	23
40	Spatial analysis of solifluction landforms and process rates in the Abisko Mountains, northern Sweden. Permafrost and Periglacial Processes, 2010, 21, 241-255.	3.4	20
41	Transient Modelling of Permafrost Distribution in Iceland. Frontiers in Earth Science, 2019, 7, .	1.8	20
42	Movements, failure and climatic control of the Veslemannen rockslide, Western Norway. Landslides, 2021, 18, 1963.	5.4	19
43	Holocene development of subarctic permafrost peatlands in Finnmark, northern Norway. Holocene, 2018, 28, 1855-1869.	1.7	17
44	Glacier geomorphometry â€" an approach for analyzing long-term glacier surface changes using grid-based digital elevation models. Annals of Glaciology, 1997, 24, 135-141.	1.4	16
45	Icelandic permafrost dynamics since the Last Glacial Maximum â€“ model results and geomorphological implications. Quaternary Science Reviews, 2020, 233, 106236.	3.0	16
46	Local variations of solifluction activity and environment in the Abisko Mountains, Northern Sweden. Earth Surface Processes and Landforms, 2011, 36, 2042-2053.	2.5	13
47	Incorporating InSAR kinematics into rock glacier inventories: insights from 11 regions worldwide. Cryosphere, 2022, 16, 2769-2792.	3.9	12
48	Lateral thermokarst patterns in permafrost peat plateaus in northern Norway. Cryosphere, 2021, 15, 3423-3442.	3.9	11
49	Mass balance and changes of surface slope, crevasse and flow pattern of Erikbreen, northern Spitsbergen: an application of a geographical information system (GIS). Polar Research, 1993, 12, 131-146.	1.6	11
50	Permafrost in monitored unstable rock slopes in Norway â€" new insights from temperature and surface velocity measurements, geophysical surveying, and ground temperature modelling. Earth Surface Dynamics, 2022, 10, 97-129.	2.4	11
51	The rock glaciers on Prins Karls Forland: corrections of surface displacement rates. Permafrost and Periglacial Processes, 2003, 14, 291-293.	3.4	8
52	Stepped palaeosurfaces in southern Norway - interpretation of DEM -derived topographic profiles. Norsk Geografisk Tidsskrift, 2003, 57, 102-110.	0.7	8
53	Surface temperatures and their influence on the permafrost thermal regime in high-Arctic rock walls on Svalbard. Cryosphere, 2021, 15, 2491-2509.	3.9	7
54	Modeling Conductive Heat Flow Between Steep Rock Walls and Talus Slopes â€" Thermal Processes and Geomorphological Implications. Frontiers in Earth Science, 2019, 7, .	1.8	6

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55	Explicitly modelling microtopography in permafrost landscapes in a land surface model (JULES) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.6	6
56	Regional Morpho-Kinematic Inventory of Slope Movements in Northern Norway. Frontiers in Earth Science, 2021, 9, .	1.8	5
57	Glacier geomorphometry â€" an approach for analyzing long-term glacier surface changes using grid-based digital elevation models. Annals of Glaciology, 1997, 24, 135-141.	1.4	4
58	Sediment budgets and rates of sediment transfer across cold environments in europe: introduction and background to the european science foundation network â€˜sedimentary sourceâ€toâ€sink fluxes in cold environmentsâ€™(sediflux). Geografiska Annaler, Series A: Physical Geography, 2007, 89, 1-3.	1.5	3
59	Dynamics of Two Subpolar Valley Glaciersâ€"Erikbreen and Hannabreen, Liefdefjorden, Northern Spitsbergen. Geografiska Annaler, Series A: Physical Geography, 1993, 75, 41-54.	1.5	2
60	Rock glaciers on Prins Karls Forland, Svalbard. I: internal structure, flow velocity and morphology. Permafrost and Periglacial Processes, 1998, 9, 135-145.	3.4	2