

Lukas U Arenson

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

2,387
citations

361413

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h-index

477307

29
g-index

40
all docs

40
docs citations

40
times ranked

1844
citing authors

#	ARTICLE	IF	CITATIONS
1	Mass Movement Processes Related to Permafrost and Glaciation. , 2022, , 283-303.		2
2	Mountain Permafrost Hydrology – A Practical Review Following Studies from the Andes. Geosciences (Switzerland), 2022, 12, 48.	2.2	20
3	Towards accurate quantification of ice content in permafrost of the Central Andes – Part 1: Geophysics-based estimates from three different regions. Cryosphere, 2022, 16, 1845-1872.	3.9	8
4	Towards accurate quantification of ice content in permafrost of the Central Andes – Part 2: An upscaling strategy of geophysical measurements to the catchment scale at two study sites. Cryosphere, 2022, 16, 2595-2615.	3.9	6
5	Performance of highway embankments in the Arctic constructed under winter conditions. Canadian Geotechnical Journal, 2021, 58, 722-736.	2.8	9
6	A general theory of rock glacier creep based on in-situ and remote sensing observations. Permafrost and Periglacial Processes, 2021, 32, 139-153.	3.4	37
7	Best Practice for Measuring Permafrost Temperature in Boreholes Based on the Experience in the Swiss Alps. Frontiers in Earth Science, 2021, 9, .	1.8	18
8	Thermal Regime of Highway Embankments in the Arctic: Field Observations and Numerical Simulations. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	3.0	7
9	Physical, thermal, and mechanical properties of snow, ice, and permafrost. , 2021, , 35-71.		5
10	Seasonal deformations under a road embankment on degrading permafrost in Northern Canada. Environmental Geotechnics, 2020, 7, 163-174.	2.3	5
11	Large-scale direct shear testing of compacted frozen soil under freezing and thawing conditions. Cold Regions Science and Technology, 2018, 151, 138-147.	3.5	38
12	Forecasting Ground Temperatures under a Highway Embankment on Degrading Permafrost. Journal of Cold Regions Engineering - ASCE, 2016, 30, .	1.1	22
13	Detection and Analysis of Ground Deformation in Permafrost Environments. Permafrost and Periglacial Processes, 2016, 27, 339-351.	3.4	25
14	Physical, Thermal, and Mechanical Properties of Snow, Ice, and Permafrost. , 2015, , 35-75.		16
15	Periglacial Geohazard Risks and Ground Temperature Increases. , 2015, , 233-237.		7
16	Effects of Dust Deposition on Glacier Ablation and Runoff at the Pascua-Lama Mining Project, Chile and Argentina. , 2015, , 27-32.		4
17	The Diavik Waste Rock Project: Measurement of the thermal regime of a waste-rock test pile in a permafrost environment. Applied Geochemistry, 2013, 36, 234-245.	3.0	30
18	Open-Pit Glacier Ice Excavation: Brief Review. Journal of Cold Regions Engineering - ASCE, 2013, 27, 223-243.	1.1	14

#	ARTICLE	IF	CITATIONS
19	Cryological Engineering. Encyclopedia of Earth Sciences Series, 2013, , 132-135.	0.1	0
20	New ice lens initiation condition for frost heave in fine-grained soils. Cold Regions Science and Technology, 2012, 82, 8-13.	3.5	58
21	Using soil freezing characteristic curve to estimate the hydraulic conductivity function of partially frozen soils. Cold Regions Science and Technology, 2012, 83-84, 103-109.	3.5	118
22	Multidisciplinary investigations on three rock glaciers in the swiss alps: legacies and future perspectives. Geografiska Annaler, Series A: Physical Geography, 2012, 94, 215-243.	1.5	52
23	Tensile strength and stress-strain behaviour of Devon silt under frozen fringe conditions. Cold Regions Science and Technology, 2011, 68, 85-90.	3.5	53
24	Practical recommendations for planning, constructing and maintaining infrastructure in mountain permafrost. Permafrost and Periglacial Processes, 2010, 21, 97-104.	3.4	71
25	The significance of rock glaciers in the dry Andes - A discussion of Azar and Brenning (2010) and Brenning and Azar (2010). Permafrost and Periglacial Processes, 2010, 21, 282-285.	3.4	31
26	Mountain permafrost: development and challenges of a young research field. Journal of Glaciology, 2010, 56, 1043-1058.	2.2	147
27	Permafrost and climate in Europe: Monitoring and modelling thermal, geomorphological and geotechnical responses. Earth-Science Reviews, 2009, 92, 117-171.	9.1	499
28	The Rheology of Frozen Soils. Applied Rheology, 2007, 17, 12147-1-12147-14.	5.2	53
29	The effect of salinity on the freezing of coarse-grained sands. Canadian Geotechnical Journal, 2006, 43, 325-337.	2.8	73
30	The use of a convective heat flow model in road designs for Northern regions. , 2006, , .		8
31	Permafrost creep and rock glacier dynamics. Permafrost and Periglacial Processes, 2006, 17, 189-214.	3.4	381
32	Triaxial constant stress and constant strain rate tests on ice-rich permafrost samples. Canadian Geotechnical Journal, 2005, 42, 412-430.	2.8	133
33	Mathematical descriptions for the behaviour of ice-rich frozen soils at temperatures close to 0 °C. Canadian Geotechnical Journal, 2005, 42, 431-442.	2.8	134
34	Rock glaciers, fault gouge and asphalt. Cold Regions Science and Technology, 2005, 43, 117-127.	3.5	6
35	Effects of volumetric ice content and strain rate on shear strength under triaxial conditions for frozen soil samples. Permafrost and Periglacial Processes, 2004, 15, 261-271.	3.4	80
36	Borehole deformation measurements and internal structure of some rock glaciers in Switzerland. Permafrost and Periglacial Processes, 2002, 13, 117-135.	3.4	206