

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

20
h-index

477307

29
g-index

40
all docs

40
docs citations

40
times ranked

1844
citing authors

#	ARTICLE	IF	CITATIONS
1	Permafrost and climate in Europe: Monitoring and modelling thermal, geomorphological and geotechnical responses. <i>Earth-Science Reviews</i> , 2009, 92, 117-171.	9.1	499
2	Permafrost creep and rock glacier dynamics. <i>Permafrost and Periglacial Processes</i> , 2006, 17, 189-214.	3.4	381
3	Borehole deformation measurements and internal structure of some rock glaciers in Switzerland. <i>Permafrost and Periglacial Processes</i> , 2002, 13, 117-135.	3.4	206
4	Mountain permafrost: development and challenges of a young research field. <i>Journal of Glaciology</i> , 2010, 56, 1043-1058.	2.2	147
5	Mathematical descriptions for the behaviour of ice-rich frozen soils at temperatures close to 0 °C. <i>Canadian Geotechnical Journal</i> , 2005, 42, 431-442.	2.8	134
6	Triaxial constant stress and constant strain rate tests on ice-rich permafrost samples. <i>Canadian Geotechnical Journal</i> , 2005, 42, 412-430.	2.8	133
7	Using soil freezing characteristic curve to estimate the hydraulic conductivity function of partially frozen soils. <i>Cold Regions Science and Technology</i> , 2012, 83-84, 103-109.	3.5	118
8	Effects of volumetric ice content and strain rate on shear strength under triaxial conditions for frozen soil samples. <i>Permafrost and Periglacial Processes</i> , 2004, 15, 261-271.	3.4	80
9	The effect of salinity on the freezing of coarse-grained sands. <i>Canadian Geotechnical Journal</i> , 2006, 43, 325-337.	2.8	73
10	Practical recommendations for planning, constructing and maintaining infrastructure in mountain permafrost. <i>Permafrost and Periglacial Processes</i> , 2010, 21, 97-104.	3.4	71
11	New ice lens initiation condition for frost heave in fine-grained soils. <i>Cold Regions Science and Technology</i> , 2012, 82, 8-13.	3.5	58
12	The Rheology of Frozen Soils. <i>Applied Rheology</i> , 2007, 17, 12147-1-12147-14.	5.2	53
13	Tensile strength and stress-strain behaviour of Devon silt under frozen fringe conditions. <i>Cold Regions Science and Technology</i> , 2011, 68, 85-90.	3.5	53
14	Multidisciplinary investigations on three rock glaciers in the swiss alps: legacies and future perspectives. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2012, 94, 215-243.	1.5	52
15	Large-scale direct shear testing of compacted frozen soil under freezing and thawing conditions. <i>Cold Regions Science and Technology</i> , 2018, 151, 138-147.	3.5	38
16	A general theory of rock glacier creep based on in-situ and remote sensing observations. <i>Permafrost and Periglacial Processes</i> , 2021, 32, 139-153.	3.4	37
17	The significance of rock glaciers in the dry Andes – A discussion of Azar and Brenning (2010) and Brenning and Azar (2010). <i>Permafrost and Periglacial Processes</i> , 2010, 21, 282-285.	3.4	31
18	The Diavik Waste Rock Project: Measurement of the thermal regime of a waste-rock test pile in a permafrost environment. <i>Applied Geochemistry</i> , 2013, 36, 234-245.	3.0	30

#	ARTICLE	IF	CITATIONS
19	Detection and Analysis of Ground Deformation in Permafrost Environments. Permafrost and Periglacial Processes, 2016, 27, 339-351.	3.4	25
20	Forecasting Ground Temperatures under a Highway Embankment on Degrading Permafrost. Journal of Cold Regions Engineering - ASCE, 2016, 30, .	1.1	22
21	Mountain Permafrost Hydrology – A Practical Review Following Studies from the Andes. Geosciences (Switzerland), 2022, 12, 48.	2.2	20
22	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
23	Physical, Thermal, and Mechanical Properties of Snow, Ice, and Permafrost. , 2015, , 35-75.		16
24	Open-Pit Glacier Ice Excavation: Brief Review. Journal of Cold Regions Engineering - ASCE, 2013, 27, 223-243.	1.1	14
25	Performance of highway embankments in the Arctic constructed under winter conditions. Canadian Geotechnical Journal, 2021, 58, 722-736.	2.8	9
26	The use of a convective heat flow model in road designs for Northern regions. , 2006, , .		8
27	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
28	Periglacial Geohazard Risks and Ground Temperature Increases. , 2015, , 233-237.		7
29	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
30	Rock glaciers, fault gouge and asphalt. Cold Regions Science and Technology, 2005, 43, 117-127.	3.5	6
31	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
32	Seasonal deformations under a road embankment on degrading permafrost in Northern Canada. Environmental Geotechnics, 2020, 7, 163-174.	2.3	5
33	Physical, thermal, and mechanical properties of snow, ice, and permafrost. , 2021, , 35-71.		5
34	Effects of Dust Deposition on Glacier Ablation and Runoff at the Pascua-Lama Mining Project, Chile and Argentina. , 2015, , 27-32.		4
35	Mass Movement Processes Related to Permafrost and Glaciation. , 2022, , 283-303.		2
36	Cryological Engineering. Encyclopedia of Earth Sciences Series, 2013, , 132-135.	0.1	0