

Antoni G Lewkowicz

List of Publications by Year in descending order

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61
papers

3,857
citations

172386

29
h-index

133188

59
g-index

63
all docs

63
docs citations

63
times ranked

3660
citing authors

#	ARTICLE	IF	CITATIONS
1	Permafrost is warming at a global scale. <i>Nature Communications</i> , 2019, 10, 264.	5.8	1,039
2	Northern Hemisphere permafrost map based on TTOP modelling for 2000–2016 at 1-km ² scale. <i>Earth-Science Reviews</i> , 2019, 193, 299-316.	4.0	462
3	Extremes of summer climate trigger thousands of thermokarst landslides in a High Arctic environment. <i>Nature Communications</i> , 2019, 10, 1329.	5.8	235
4	Probability mapping of mountain permafrost using the BTS method, Wolf Creek, Yukon Territory, Canada. <i>Permafrost and Periglacial Processes</i> , 2004, 15, 67-80.	1.5	127
5	Frequency and magnitude of active-layer detachment failures in discontinuous and continuous permafrost, northern Canada. <i>Permafrost and Periglacial Processes</i> , 2005, 16, 115-130.	1.5	108
6	Dynamics of active-layer detachment failures, Fosheim Peninsula, Ellesmere Island, Nunavut, Canada. <i>Permafrost and Periglacial Processes</i> , 2007, 18, 89-103.	1.5	106
7	RESPONSE OF THE CANADIAN PERMAFROST ENVIRONMENT TO CLIMATIC CHANGE. <i>Physical Geography</i> , 1992, 13, 287-317.	0.6	105
8	Impact of wildfire on permafrost landscapes: A review of recent advances and future prospects. <i>Permafrost and Periglacial Processes</i> , 2020, 31, 371-382.	1.5	98
9	Morphology and geotechnique of active-layer detachment failures in discontinuous and continuous permafrost, northern Canada. <i>Geomorphology</i> , 2005, 69, 275-297.	1.1	95
10	Characteristics of Discontinuous Permafrost based on Ground Temperature Measurements and Electrical Resistivity Tomography, Southern Yukon, Canada. <i>Permafrost and Periglacial Processes</i> , 2011, 22, 320-342.	1.5	80
11	Climate and ground temperature relations at sites across the continuous and discontinuous permafrost zones, northern Canada ¹ This article is one of a series of papers published in this CJES Special Issue on the theme of <i>Fundamental and applied research on permafrost in Canada</i> . ² Earth Science Sector (ESS) Contribution 20110128.. <i>Canadian Journal of Earth Sciences</i> , 2012, 49, 865-876.	0.6	70
12	Evaluation of miniature temperature loggers to monitor snowpack evolution at mountain permafrost sites, northwestern Canada. <i>Permafrost and Periglacial Processes</i> , 2008, 19, 323-331.	1.5	69
13	Limited contribution of permafrost carbon to methane release from thawing peatlands. <i>Nature Climate Change</i> , 2017, 7, 507-511.	8.1	69
14	An analysis of the stability of thawing slopes, Ellesmere Island, Nunavut, Canada. <i>Canadian Geotechnical Journal</i> , 2000, 37, 449-462.	1.4	62
15	Headwall retreat of ground-ice slumps, Banks Island, Northwest Territories. <i>Canadian Journal of Earth Sciences</i> , 1987, 24, 1077-1085.	0.6	60
16	A Permafrost Probability Model for the Southern Yukon and Northern British Columbia, Canada. <i>Permafrost and Periglacial Processes</i> , 2012, 23, 52-68.	1.5	52
17	Multi-decadal degradation and persistence of permafrost in the Alaska Highway corridor, northwest Canada. <i>Environmental Research Letters</i> , 2013, 8, 045013.	2.2	50
18	Vegetation colonization of permafrost-related landslides, Ellesmere Island, Canadian High Arctic. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	49

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19	Equivalent Elevation: A New Method to Incorporate Variable Surface Lapse Rates into Mountain Permafrost Modelling. <i>Permafrost and Periglacial Processes</i> , 2011, 22, 153-162.	1.5	48
20	Ice-wedge rejuvenation, fosheim peninsula, ellesmere Island, Canada. <i>Permafrost and Periglacial Processes</i> , 1994, 5, 251-268.	1.5	47
21	Biotic and abiotic processes on granite weathering landforms in a cryotic environment, Northern Victoria Land, Antarctica. <i>Permafrost and Periglacial Processes</i> , 2005, 16, 69-85.	1.5	43
22	Spatial and thermal characteristics of mountain permafrost, northwest Canada. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2012, 94, 195-213.	0.6	41
23	Limited release of previously-frozen C and increased new peat formation after thaw in permafrost peatlands. <i>Soil Biology and Biochemistry</i> , 2018, 118, 115-129.	4.2	40
24	Environmental controls on ground temperature and permafrost in Labrador, northeast Canada. <i>Permafrost and Periglacial Processes</i> , 2018, 29, 73-85.	1.5	40
25	Salinization of Permafrost Terrain Due to Natural Geomorphic Disturbance, Fosheim Peninsula, Ellesmere Island. <i>Arctic</i> , 1999, 52, .	0.2	38
26	Movement, moisture and thermal conditions at a turf-banked solifluction lobe, Kluane Range, Yukon Territory, Canada. <i>Permafrost and Periglacial Processes</i> , 2005, 16, 261-275.	1.5	33
27	Mountain permafrost probability mapping using the BTS method in two climatically dissimilar locations, northwest Canada. <i>Canadian Journal of Earth Sciences</i> , 2008, 45, 443-455.	0.6	31
28	Observations of aeolian transport and niveo-aeolian deposition at three lowland sites, Canadian arctic archipelago. <i>Permafrost and Periglacial Processes</i> , 1991, 2, 197-210.	1.5	30
29	Frontal advance of turf-banked solifluction lobes, Kluane Range, Yukon Territory, Canada. <i>Geomorphology</i> , 2006, 73, 261-276.	1.1	30
30	Recent changes in climate and permafrost temperatures at forested and polar desert sites in northern Canada ¹ This article is one of a series of papers published in this CJES Special Issue on the theme of <i>Fundamental and applied research on permafrost in Canada</i> . <i>Canadian Journal of Earth Sciences</i> , 2012, 49, 914-924.	0.6	29
31	Morphometry and environmental characteristics of turf-banked solifluction lobes, Kluane Range, Yukon Territory, Canada. <i>Permafrost and Periglacial Processes</i> , 2002, 13, 301-313.	1.5	27
32	Interchangeability of mountain permafrost probability models, northwest Canada. <i>Permafrost and Periglacial Processes</i> , 2008, 19, 49-62.	1.5	27
33	Characteristics and fate of isolated permafrost patches in coastal Labrador, Canada. <i>Cryosphere</i> , 2018, 12, 2667-2688.	1.5	26
34	A solifluction meter for permafrost sites. <i>Permafrost and Periglacial Processes</i> , 1992, 3, 11-18.	1.5	23
35	Modelling climate change effects on the spatial distribution of mountain permafrost at three sites in northwest Canada. <i>Climatic Change</i> , 2011, 105, 293-312.	1.7	23
36	Half a century of discontinuous permafrost persistence and degradation in western Canada. <i>Permafrost and Periglacial Processes</i> , 2020, 31, 85-96.	1.5	23

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37	Aeolian sediment transport during winter, Black Top Creek, Fosheim Peninsula, Ellesmere Island, Canadian Arctic. <i>Permafrost and Periglacial Processes</i> , 1998, 9, 35-46.	1.5	22
38	Temperature regime of a small sandstone tor, latitude 80 °N, Ellesmere Island, Nunavut, Canada. <i>Permafrost and Periglacial Processes</i> , 2001, 12, 351-366.	1.5	20
39	Lake ice blisters, terra nova bay area, northern victoria land, antarctica. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2009, 91, 99-111.	0.6	20
40	Modelling the spatial distribution of permafrost in Labrador-Ungava using the temperature at the top of permafrost. <i>Canadian Journal of Earth Sciences</i> , 2016, 53, 1010-1028.	0.6	19
41	Rate of Short-Term ablation of Exposed Ground Ice, Banks Island, Northwest Territories, Canada. <i>Journal of Glaciology</i> , 1986, 32, 511-519.	1.1	17
42	Beaver Damming and Palsa Dynamics in a Subarctic Mountainous Environment, Wolf Creek, Yukon Territory, Canada. <i>Arctic, Antarctic, and Alpine Research</i> , 2004, 36, 208-218.	0.4	17
43	Plant-Environment Interactions in the Low Arctic Torngat Mountains of Labrador. <i>Ecosystems</i> , 2021, 24, 1038-1058.	1.6	17
44	Nature and Importance of Thermokarst Processes, Sand Hills Moraine, Banks Island, Canada. <i>Geografiska Annaler, Series A: Physical Geography</i> , 1987, 69, 321-327.	0.6	16
45	Development of moderate-resolution gridded monthly air temperature and degree-day maps for the Labrador-Ungava region of northern Canada. <i>International Journal of Climatology</i> , 2017, 37, 493-508.	1.5	16
46	Permafrost probability modeling above and below treeline, Yukon, Canada. <i>Cold Regions Science and Technology</i> , 2012, 79-80, 92-106.	1.6	14
47	Utility of Classification and Regression Tree Analyses and Vegetation in Mountain Permafrost Models, Yukon, Canada. <i>Permafrost and Periglacial Processes</i> , 2011, 22, 163-178.	1.5	13
48	Measurement of Outflow from a Snowbank with Basal Ice. <i>Journal of Glaciology</i> , 1988, 34, 358-362.	1.1	12
49	Hydrology of a Perennial Snowbank in the Continuous Permafrost Zone, Melville Island, Canada. <i>Geografiska Annaler, Series A: Physical Geography</i> , 1990, 72, 13-21.	0.6	12
50	Long-term field measurements of climate-induced thaw subsidence above ice wedges on hillslopes, western Arctic Canada. <i>Permafrost and Periglacial Processes</i> , 2021, 32, 261-276.	1.5	11
51	Nature and Importance of Thermokarst Processes, Sand Hills Moraine, Banks Island, Canada. <i>Geografiska Annaler, Series A: Physical Geography</i> , 1987, 69, 321.	0.6	8
52	A systematic evaluation of electrical resistivity tomography for permafrost interface detection using forward modeling. <i>Permafrost and Periglacial Processes</i> , 2022, 33, 134-146.	1.5	7
53	Hydrology of a Perennial Snowbank in the Continuous Permafrost Zone, Melville Island, Canada. <i>Geografiska Annaler, Series A: Physical Geography</i> , 1990, 72, 13.	0.6	5
54	Rate of Short-Term ablation of Exposed Ground Ice, Banks Island, Northwest Territories, Canada. <i>Journal of Glaciology</i> , 1986, 32, 511-519.	1.1	5

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55	Development of a rapid active layer detachment slide in the Fenghuoshan Mountains, Qinghaiâ€“Tibet Plateau. <i>Permafrost and Periglacial Processes</i> , 2022, 33, 298-309.	1.5	4
56	Permafrost Geomorphology. <i>Geological Society Memoir</i> , 0, , M58-2022-11.	0.9	3
57	Why Permafrost Is Thawing, Not Melting. <i>Eos</i> , 2010, 91, 87-87.	0.1	2
58	Report from the International Permafrost Association. <i>Permafrost and Periglacial Processes</i> , 2016, 27, 316-319.	1.5	1
59	Permafrost Investigations below the Marine Limit at Nain, Nunatsiavut, Canada. , 2021, , .		1
60	Measurement of Outflow from a Snowbank with Basal Ice. <i>Journal of Glaciology</i> , 1988, 34, 358-362.	1.1	0
61	Hugh French memorial for <i>Permafrost and Periglacial Processes</i>. <i>Permafrost and Periglacial Processes</i> , 2021, 32, 181-185.	1.5	0