

Frederick E Nelson

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/99332/publications.pdf>

Version: 2024-02-01

67
papers

3,143
citations

236833

25
h-index

155592

55
g-index

70
all docs

70
docs citations

70
times ranked

2429
citing authors

#	ARTICLE	IF	CITATIONS
1	Subsidence risk from thawing permafrost. <i>Nature</i> , 2001, 410, 889-890.	13.7	351
2	Degrading permafrost puts Arctic infrastructure at risk by mid-century. <i>Nature Communications</i> , 2018, 9, 5147.	5.8	327
3	The transient layer: implications for geocryology and climate-change science. <i>Permafrost and Periglacial Processes</i> , 2005, 16, 5-17.	1.5	290
4	Spatial Extent, Age, and Carbon Stocks in Drained Thaw Lake Basins on the Barrow Peninsula, Alaska. <i>Arctic, Antarctic, and Alpine Research</i> , 2003, 35, 291-300.	0.4	223
5	Global warming and active-layer thickness: results from transient general circulation models. <i>Global and Planetary Change</i> , 1997, 15, 61-77.	1.6	177
6	The urban heat island in winter at Barrow, Alaska. <i>International Journal of Climatology</i> , 2003, 23, 1889-1905.	1.5	141
7	Decadal variations of active-layer thickness in moisture-controlled landscapes, Barrow, Alaska. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	138
8	GEOCRIOLOGY: Enhanced: (Un)frozen in Time. <i>Science</i> , 2003, 299, 1673-1675.	6.0	125
9	The N-factor in Natural Landscapes: Variability of Air and Soil-Surface Temperatures, Kuparuk River Basin, Alaska, U.S.A.. <i>Arctic, Antarctic, and Alpine Research</i> , 2001, 33, 140-148.	0.4	104
10	Title is missing!. <i>Climatic Change</i> , 1997, 35, 241-258.	1.7	100
11	Permafrost, Infrastructure, and Climate Change: A GIS-Based Landscape Approach to Geotechnical Modeling. <i>Arctic, Antarctic, and Alpine Research</i> , 2012, 44, 368-380.	0.4	88
12	Isotropic thaw subsidence in undisturbed permafrost landscapes. <i>Geophysical Research Letters</i> , 2013, 40, 6356-6361.	1.5	75
13	Changes in the 1963–2013 shallow ground thermal regime in Russian permafrost regions. <i>Environmental Research Letters</i> , 2015, 10, 125005.	2.2	69
14	The N-Factor in Natural Landscapes: Variability of Air and Soil-Surface Temperatures, Kuparuk River Basin, Alaska, U.S.A.. <i>Arctic, Antarctic, and Alpine Research</i> , 2001, 33, 140.	0.4	64
15	Permafrost zonation in Russia under anthropogenic climatic change. <i>Permafrost and Periglacial Processes</i> , 1993, 4, 137-148.	1.5	57
16	Application of differential global positioning systems to monitor frost heave and thaw settlement in tundra environments. <i>Permafrost and Periglacial Processes</i> , 2003, 14, 349-357.	1.5	57
17	Thaw Subsidence in Undisturbed Tundra Landscapes, Barrow, Alaska, 1962–2015. <i>Permafrost and Periglacial Processes</i> , 2017, 28, 566-572.	1.5	56
18	Application of ground-penetrating radar imagery for three-dimensional visualisation of near-surface structures in ice-rich permafrost, Barrow, Alaska. <i>Permafrost and Periglacial Processes</i> , 2007, 18, 309-321.	1.5	51

#	ARTICLE	IF	CITATIONS
19	Circumpolar permafrost maps and geohazard indices for near-future infrastructure risk assessments. <i>Scientific Data</i> , 2019, 6, 190037.	2.4	51
20	Anthropogenic heat island at Barrow, Alaska, during winter: 2001–2005. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	44
21	Uncertainties in gridded air temperature fields and effects on predictive active layer modeling. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	43
22	Permafrost Distribution in Central Canada: Applications of a Climate-Based Predictive Model. <i>Annals of the American Association of Geographers</i> , 1986, 76, 550-569.	3.0	42
23	Comparison of model-produced active layer fields: Results for northern Alaska. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	41
24	The Circumpolar Active Layer Monitoring (CALM) Workshop and THE CALM II Program. <i>Polar Geography</i> , 2004, 28, 253-266.	0.8	36
25	Spatial variability of permafrost active-layer thickness under contemporary and projected climate in Northern Alaska. <i>Polar Geography</i> , 2012, 35, 95-116.	0.8	33
26	Periglacial Appalachia: palaeoclimatic significance of blockfield elevation gradients, eastern USA. <i>Permafrost and Periglacial Processes</i> , 2007, 18, 61-73.	1.5	22
27	Traditional Inupiat Ice Cellars (SIĀĀ;UAQ) in Barrow, Alaska: Characteristics, Temperature Monitoring, and Distribution. <i>Geographical Review</i> , 2017, 107, 143-158.	0.9	21
28	Cryoplanation Terraces: Periglacial Cirque Analogs. <i>Geografiska Annaler, Series A: Physical Geography</i> , 1989, 71, 31-41.	0.6	18
29	The Circumpolar-Active-Layer-Monitoring(CALM) Workshop: introduction. <i>Permafrost and Periglacial Processes</i> , 2004, 15, 99-101.	1.5	18
30	Spatial Sampling Design in the Circumpolar Active Layer Monitoring Programme. <i>Permafrost and Periglacial Processes</i> , 2017, 28, 42-51.	1.5	17
31	Sampling-surface orientation and clast macrofabric in periglacial colluvium. <i>Earth Surface Processes and Landforms</i> , 2001, 26, 523-529.	1.2	16
32	Introduction to special section: Permafrost and Seasonally Frozen Ground Under a Changing Climate. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	16
33	PERMAFROST ZONATION IN EASTERN CANADA: A REVIEW OF PUBLISHED MAPS. <i>Physical Geography</i> , 1989, 10, 233-248.	0.6	15
34	Time-transgressive cryoplanation terrace development through nivation-driven scarp retreat. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 526-534.	1.2	13
35	Clast fabric in relict periglacial colluvium, salamanca reentrant, southwestern new york, usa. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2001, 83, 145-156.	0.6	12
36	Cosmogenic ¹⁰ Be and ³⁶ Cl geochronology of cryoplanation terraces in the Alaskan Yukon-Tanana Upland. <i>Quaternary Research</i> , 2020, 97, 157-166.	1.0	12

#	ARTICLE	IF	CITATIONS
37	Long-term Circumpolar Active Layer Monitoring (CALM) program observations in Northern Alaskan tundra. <i>Polar Geography</i> , 2021, 44, 167-185.	0.8	12
38	Cryoplanation Terraces: Periglacial Cirque Analogs. <i>Geografiska Annaler, Series A: Physical Geography</i> , 1989, 71, 31.	0.6	11
39	Periglacial cirque analogs: Elevation trends of cryoplanation terraces in eastern Beringia. <i>Geomorphology</i> , 2017, 293, 305-317.	1.1	11
40	Cryoplanation terrace orientation in alaska. <i>Geografiska Annaler, Series A: Physical Geography</i> , 1998, 80, 135-151.	0.6	10
41	Characterising relict cryogenic macrostructures in mid-latitude areas of the USA with three-dimensional ground-penetrating radar. <i>Permafrost and Periglacial Processes</i> , 2009, 20, 257-268.	1.5	10
42	Urban-rural contrasts in summer soil-surface temperature and active-layer thickness, Barrow, Alaska, USA. <i>Polar Geography</i> , 2013, 36, 183-201.	0.8	10
43	Cryoplanation Terrace Orientation in Alaska. <i>Geografiska Annaler, Series A: Physical Geography</i> , 1998, 80A, 135-151.	0.6	10
44	Cryogenic sediment-filled wedges, northern Delaware, USA. <i>Permafrost and Periglacial Processes</i> , 2004, 15, 319-326.	1.5	9
45	The Summer Climate of an Arctic Coastal Village: Preliminary Observations from the Barrow Urban Heat-island Study. <i>Polar Geography</i> , 2004, 28, 197-221.	0.8	8
46	A characteristic periglacial landform: Automated recognition and delineation of cryoplanation terraces in eastern Beringia. <i>Permafrost and Periglacial Processes</i> , 2021, 32, 35-46.	1.5	7
47	FROST MOUNDS AT TOOLIK LAKE, ALASKA. <i>Physical Geography</i> , 1987, 8, 148-159.	0.6	6
48	SPECTRAL SIGNATURE OF COUPLED FLOW IN THE REFREEZING ACTIVE LAYER, NORTHERN ALASKA. <i>Physical Geography</i> , 1992, 13, 273-284.	0.6	6
49	Urban Geocryology: Mapping Urban-rural Contrasts in Active-Layer Thickness, Barrow Peninsula, Northern Alaska. <i>Annals of the American Association of Geographers</i> , 2019, 109, 1394-1414.	1.5	6
50	Cool, CALM, collected: the Circumpolar Active Layer Monitoring program and network. <i>Polar Geography</i> , 2021, 44, 155-166.	0.8	6
51	Bibliographic Instruction in the Undergraduate Research Methods Course. <i>Journal of Geography</i> , 1991, 90, 134-140.	1.8	5
52	Permafrost science and secondary education: direct involvement of teachers and students in field research. <i>Geomorphology</i> , 2002, 47, 275-287.	1.1	5
53	Long-term nivation rates, Cathedral Massif, northwestern British Columbia. <i>Canadian Journal of Earth Sciences</i> , 2020, 57, 1305-1311.	0.6	5
54	Preliminary observations of nivation processes, Cathedral Massif, Northwestern British Columbia, Canada. <i>Physical Geography</i> , 2021, 42, 513-528.	0.6	5

#	ARTICLE	IF	CITATIONS
55	“America’s Glory Road” On Ice: Permafrost and the Development of the Alcan Highway, 1942–1943. , 2011, , 643-661.		5
56	Permafrost Regions In Transition: Introduction. Geography, Environment, Sustainability, 2021, 14, 6-8.	0.6	5
57	Rock glaciers of the Beartooth and northern Absaroka ranges, Montana, USA. Permafrost and Periglacial Processes, 2019, 30, 249-259.	1.5	4
58	The morphology of altiplanation in interior Alaska. Polar Geography, 2022, 45, 1-36.	0.8	4
59	METHODOLOGY: A DEVICE FOR MONITORING SOIL MOVEMENT IN PEATLANDS. Physical Geography, 1986, 7, 275-281.	0.6	3
60	A New Report on Permafrost Research Needs. Journal of Cold Regions Engineering - ASCE, 2004, 18, 123-133.	0.5	3
61	Characteristic periglacial topography: Multi-scale hypsometric analysis of cryoplanated uplands in eastern Beringia. Permafrost and Periglacial Processes, 2022, 33, 241-263.	1.5	3
62	Why Permafrost Is Thawing, Not Melting. Eos, 2010, 91, 87-87.	0.1	2
63	Stephen Taber and the development of North American cryostratigraphy and periglacial geomorphology. Permafrost and Periglacial Processes, 2021, 32, 213-230.	1.5	2
64	REFERENTIAL TREATMENT. Professional Geographer, 1989, 41, 78-81.	1.0	1
65	Tacky answer to curious animals. Nature, 1990, 344, 115-116.	13.7	1
66	COMPUTERIZED PERSONAL BIBLIOGRAPHY MANAGEMENT. Professional Geographer, 1991, 43, 205-211.	1.0	1
67	Richard K. Haugen. Arctic, Antarctic, and Alpine Research, 2007, 39, 512-513.	0.4	1