

Kenneth Hinkel

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3338173/publications.pdf>

Version: 2024-02-01

64
papers

3,657
citations

159525

30
h-index

133188

59
g-index

64
all docs

64
docs citations

64
times ranked

3227
citing authors

#	ARTICLE	IF	CITATIONS
1	Lake and drained lake basin systems in lowland permafrost regions. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 85-98.	12.2	41
2	Spatial snowdrift modelling for an open natural terrain using a physically-based linear particle distribution equation. <i>Hydrological Processes</i> , 2022, 36, .	1.1	3
3	A new Stefan equation to characterize the evolution of thermokarst lake and talik geometry. <i>Cryosphere</i> , 2022, 16, 1247-1264.	1.5	5
4	Geophysical Observations of Taliks Below Drained Lake Basins on the Arctic Coastal Plain of Alaska. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020889.	1.4	9
5	Remote Sensing-Based Statistical Approach for Defining Drained Lake Basins in a Continuous Permafrost Region, North Slope of Alaska. <i>Remote Sensing</i> , 2021, 13, 2539.	1.8	8
6	Identifying historical and future potential lake drainage events on the western Arctic coastal plain of Alaska. <i>Permafrost and Periglacial Processes</i> , 2020, 31, 110-127.	1.5	30
7	Recurring outburst floods from drained lakes: an emerging Arctic hazard. <i>Frontiers in Ecology and the Environment</i> , 2020, 18, 384-390.	1.9	18
8	Greenhouse gas emissions from diverse Arctic Alaskan lakes are dominated by young carbon. <i>Nature Climate Change</i> , 2018, 8, 166-171.	8.1	72
9	Post-storm Water Circulation Patterns in Teshekpuk Lake (Alaska) Derived from Sequential Optical Satellite Images. <i>Permafrost and Periglacial Processes</i> , 2017, 28, 322-330.	1.5	3
10	Can Deep Groundwater Influx be Detected from the Geochemistry of Thermokarst Lakes in Arctic Alaska?. <i>Permafrost and Periglacial Processes</i> , 2017, 28, 552-557.	1.5	8
11	Spatial and Temporal Variation in Methane Concentrations, Fluxes, and Sources in Lakes in Arctic Alaska. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 2966-2981.	1.3	18
12	Analysis of Thermal Structure of Arctic Lakes at Local and Regional Scales Using in Situ and Multisatellite Data. <i>Water Resources Research</i> , 2017, 53, 9642-9658.	1.7	24
13	The Use of Electrical Resistivity Methods for Ground Ice Characterization for Engineering. , 2017, , .		0
14	Threshold sensitivity of shallow Arctic lakes and sublake permafrost to changing winter climate. <i>Geophysical Research Letters</i> , 2016, 43, 6358-6365.	1.5	68
15	Depth, ice thickness, and ice-out timing cause divergent hydrologic responses among Arctic lakes. <i>Water Resources Research</i> , 2015, 51, 9379-9401.	1.7	66
16	Archaeal and bacterial communities across a chronosequence of drained lake basins in arctic alaska. <i>Scientific Reports</i> , 2015, 5, 18165.	1.6	15
17	Large amounts of labile organic carbon in permafrost soils of northern Alaska. <i>Global Change Biology</i> , 2015, 21, 2804-2817.	4.2	88
18	A localized contour tree method for deriving geometric and topological properties of complex surface depressions based on high-resolution topographical data. <i>International Journal of Geographical Information Science</i> , 2015, 29, 2041-2060.	2.2	52

#	ARTICLE	IF	CITATIONS
19	Spatio-Temporal Analysis of Gyres in Oriented Lakes on the Arctic Coastal Plain of Northern Alaska Based on Remotely Sensed Images. <i>Remote Sensing</i> , 2014, 6, 9170-9193.	1.8	11
20	Quantifying sources of error in multitemporal multisensor lake mapping. <i>International Journal of Remote Sensing</i> , 2013, 34, 7887-7905.	1.3	27
21	Environmental, cultural, and social change in Arctic Alaska as observed by Inupiat elders over their lifetimes: a GIS synthesis. <i>Polar Geography</i> , 2013, 36, 221-231.	0.8	4
22	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
23	Regional lake ice meltout patterns near Barrow, Alaska. <i>Polar Geography</i> , 2012, 35, 1-18.	0.8	17
24	Drained thaw lake basin recovery on the western Arctic Coastal Plain of Alaska using high-resolution digital elevation models and remote sensing imagery. <i>Remote Sensing of Environment</i> , 2012, 119, 325-336.	4.6	28
25	Thermokarst Lakes on the Arctic Coastal Plain of Alaska: Spatial and Temporal Variability in Summer Water Temperature. <i>Permafrost and Periglacial Processes</i> , 2012, 23, 207-217.	1.5	26
26	Thermokarst Lakes on the Arctic Coastal Plain of Alaska: Geomorphic Controls on Bathymetry. <i>Permafrost and Periglacial Processes</i> , 2012, 23, 218-230.	1.5	45
27	Accumulation of Excess Ground Ice in an Age Sequence of Drained Thermokarst Lake Basins, Arctic Alaska. <i>Permafrost and Periglacial Processes</i> , 2012, 23, 231-236.	1.5	15
28	Spatial and temporal aspects of the lake effect on the southern shore of Lake Superior. <i>Theoretical and Applied Climatology</i> , 2012, 109, 415-428.	1.3	9
29	Producing an Indigenous Knowledge Web GIS for Arctic Alaska Communities: Challenges, Successes, and Lessons Learned. <i>Transactions in GIS</i> , 2012, 16, 17-37.	1.0	23
30	Sikuliqiruiq: ice dynamics of the Meade River in Arctic Alaska, from freezeup to breakup from time-series ground imagery. <i>Polar Geography</i> , 2010, 33, 115-137.	0.8	2
31	Arctic Lake Physical Processes and Regimes with Implications for Winter Water Availability and Management in the National Petroleum Reserve Alaska. <i>Environmental Management</i> , 2009, 43, 1071-1084.	1.2	70
32	Increase in the rate and uniformity of coastline erosion in Arctic Alaska. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	252
33	Anthropogenic heat island at Barrow, Alaska, during winter: 2001-2005. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	44
34	Methods to assess natural and anthropogenic thaw lake drainage on the western Arctic coastal plain of northern Alaska. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	134
35	The Importance of Deep-Organic Carbon in Permafrost-Affected Soils of Arctic Alaska. <i>Soil Science Society of America Journal</i> , 2007, 71, 1889-1892.	1.2	36
36	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
37	Comment on "Formation of oriented thaw lakes by thaw slumping" by Jon D. Pelletier. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	6
38	Permafrost Destabilization and Thermokarst Following Snow Fence Installation, Barrow, Alaska, U.S.A. <i>Arctic, Antarctic, and Alpine Research</i> , 2006, 38, 530-539.	0.4	61
39	Satellite remote sensing classification of thaw lakes and drained thaw lake basins on the North Slope of Alaska. <i>Remote Sensing of Environment</i> , 2005, 97, 116-126.	4.6	134
40	The transient layer: implications for geocryology and climate-change science. <i>Permafrost and Periglacial Processes</i> , 2005, 16, 5-17.	1.5	290
41	Morphometric and spatial analysis of thaw lakes and drained thaw lake basins in the western Arctic Coastal Plain, Alaska. <i>Permafrost and Periglacial Processes</i> , 2005, 16, 327-341.	1.5	174
42	Carbon Pools and Accumulation Rates in an Age-Series of Soils in Drained Thaw-Lake Basins, Arctic Alaska. <i>Soil Science Society of America Journal</i> , 2004, 68, 697-704.	1.2	53
43	Carbon Pools and Accumulation Rates in an Age-Series of Soils in Drained Thaw-Lake Basins, Arctic Alaska. <i>Soil Science Society of America Journal</i> , 2004, 68, 697.	1.2	16
44	The urban heat island in winter at Barrow, Alaska. <i>International Journal of Climatology</i> , 2003, 23, 1889-1905.	1.5	141
45	Spatial and temporal patterns of active layer thickness at Circumpolar Active Layer Monitoring (CALM) sites in northern Alaska, 1995-2000. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	184
46	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
47	Factors Affecting the Distribution of <i>Populus balsamifera</i> on the North Slope of Alaska, U.S.A. <i>Arctic, Antarctic, and Alpine Research</i> , 2003, 35, 331-340.	0.4	15
48	Predicting Carbon Storage in Tundra Soils of Arctic Alaska. <i>Soil Science Society of America Journal</i> , 2003, 67, 948-950.	1.2	10
49	Predicting Carbon Storage in Tundra Soils of Arctic Alaska. <i>Soil Science Society of America Journal</i> , 2003, 67, 948.	1.2	38
50	Soils of the Barrow region, Alaska. <i>Polar Geography</i> , 2001, 25, 163-181.	0.8	21
51	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
52	Detection of subsurface permafrost features with ground-penetrating radar, Barrow, Alaska. <i>Permafrost and Periglacial Processes</i> , 2001, 12, 179-190.	1.5	137
53	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
54	The circumpolar active layer monitoring (calm) program: Research designs and initial results. <i>Polar Geography</i> , 2000, 24, 166-258.	0.8	387

#	ARTICLE	IF	CITATIONS
55	Soil Organic Carbon Storage and Distribution in Arctic Tundra, Barrow, Alaska. Soil Science Society of America Journal, 1999, 63, 934-940.	1.2	103
56	THERMALLY DRIVEN SORPTION, DESORPTION, AND MOISTURE MIGRATION IN THE ACTIVE LAYER IN CENTRAL ALASKA. Physical Geography, 1996, 17, 77-90.	0.6	4
57	Formation of injection frost mounds over winter 1995â€“1996 at barrow, Alaska1. Polar Geography, 1996, 20, 235-248.	0.8	5
58	Identification of heat-transfer processes during soil cooling, freezing, and thaw in central alaska. Permafrost and Periglacial Processes, 1994, 5, 217-235.	1.5	68
59	SPECTRAL SIGNATURE OF COUPLED FLOW IN THE REFREEZING ACTIVE LAYER, NORTHERN ALASKA. Physical Geography, 1992, 13, 273-284.	0.6	6
60	The fractal geometry of thermal and chemical time series from the active layer, Alaska. Permafrost and Periglacial Processes, 1992, 3, 315-322.	1.5	9
61	Temperature variation and apparent thermal diffusivity in the refreezing active layer, Toolik Lake, Alaska. Permafrost and Periglacial Processes, 1990, 1, 265-274.	1.5	38
62	NIGHT-FROST MODULATION OF NEAR-SURFACE SOIL-WATER ION CONCENTRATION AND THERMAL FIELDS. Physical Geography, 1989, 10, 336-348.	0.6	27
63	FROST MOUNDS AT TOOLIK LAKE, ALASKA. Physical Geography, 1987, 8, 148-159.	0.6	6
64	Permafrost Destabilization and Thermokarst Following Snow Fence Installation, Barrow, Alaska, U.S.A. , 0, .		1