

Kenneth Hinkel

List of Publications by Year in descending order

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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	The circumpolar active layer monitoring (calm) program: Research designs and initial results¹. Polar Geography, 2000, 24, 166-258.	0.8	387
2	The transient layer: implications for geocryology and climate-change science. Permafrost and Periglacial Processes, 2005, 16, 5-17.	1.5	290
3	Increase in the rate and uniformity of coastline erosion in Arctic Alaska. Geophysical Research Letters, 2009, 36, .	1.5	252
4	Spatial Extent, Age, and Carbon Stocks in Drained Thaw Lake Basins on the Barrow Peninsula, Alaska. Arctic, Antarctic, and Alpine Research, 2003, 35, 291-300.	0.4	223
5	Spatial and temporal patterns of active layer thickness at Circumpolar Active Layer Monitoring (CALM) sites in northern Alaska, 1995â€“2000. Journal of Geophysical Research, 2003, 108, .	3.3	184
6	Morphometric and spatial analysis of thaw lakes and drained thaw lake basins in the western Arctic Coastal Plain, Alaska. Permafrost and Periglacial Processes, 2005, 16, 327-341.	1.5	174
7	The urban heat island in winter at Barrow, Alaska. International Journal of Climatology, 2003, 23, 1889-1905.	1.5	141
8	Detection of subsurface permafrost features with ground-penetrating radar, Barrow, Alaska. Permafrost and Periglacial Processes, 2001, 12, 179-190.	1.5	137
9	Satellite remote sensing classification of thaw lakes and drained thaw lake basins on the North Slope of Alaska. Remote Sensing of Environment, 2005, 97, 116-126.	4.6	134
10	Methods to assess natural and anthropogenic thaw lake drainage on the western Arctic coastal plain of northern Alaska. Journal of Geophysical Research, 2007, 112, .	3.3	134
11	The N-factor in Natural Landscapes: Variability of Air and Soil-Surface Temperatures, Kuparuk River Basin, Alaska, U.S.A.. Arctic, Antarctic, and Alpine Research, 2001, 33, 140-148.	0.4	104
12	Soil Organic Carbon Storage and Distribution in Arctic Tundra, Barrow, Alaska. Soil Science Society of America Journal, 1999, 63, 934-940.	1.2	103
13	Large amounts of labile organic carbon in permafrost soils of northern <sc>A</sc>laska. Global Change Biology, 2015, 21, 2804-2817.	4.2	88
14	Greenhouse gas emissions from diverse Arctic Alaskan lakes are dominated by young carbon. Nature Climate Change, 2018, 8, 166-171.	8.1	72
15	Arctic Lake Physical Processes and Regimes with Implications for Winter Water Availability and Management in the National Petroleum Reserve Alaska. Environmental Management, 2009, 43, 1071-1084.	1.2	70
16	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
17	Threshold sensitivity of shallow Arctic lakes and sublake permafrost to changing winter climate. Geophysical Research Letters, 2016, 43, 6358-6365.	1.5	68
18	Depth, ice thickness, and iceâ€“out timing cause divergent hydrologic responses among Arctic lakes. Water Resources Research, 2015, 51, 9379-9401.	1.7	66

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19	The N-Factor in Natural Landscapes: Variability of Air and Soil-Surface Temperatures, Kuparuk River Basin, Alaska, U.S.A.. Arctic, Antarctic, and Alpine Research, 2001, 33, 140.	0.4	64
20	Permafrost Destabilization and Thermokarst Following Snow Fence Installation, Barrow, Alaska, U.S.A. Arctic, Antarctic, and Alpine Research, 2006, 38, 530-539.	0.4	61
21	Carbon Pools and Accumulation Rates in an Age-€Series of Soils in Drained Thaw-€Lake Basins, Arctic Alaska. Soil Science Society of America Journal, 2004, 68, 697-704.	1.2	53
22	A localized contour tree method for deriving geometric and topological properties of complex surface depressions based on high-resolution topographical data. International Journal of Geographical Information Science, 2015, 29, 2041-2060.	2.2	52
23	Application of ground-€penetrating radar imagery for three-€dimensional visualisation of near-€surface structures in ice-€rich permafrost, Barrow, Alaska. Permafrost and Periglacial Processes, 2007, 18, 309-321.	1.5	51
24	Thermokarst Lakes on the Arctic Coastal Plain of Alaska: Geomorphic Controls on Bathymetry. Permafrost and Periglacial Processes, 2012, 23, 218-230.	1.5	45
25	Anthropogenic heat island at Barrow, Alaska, during winter: 2001-€2005. Journal of Geophysical Research, 2007, 112, .	3.3	44
26	Lake and drained lake basin systems in lowland permafrost regions. Nature Reviews Earth & Environment, 2022, 3, 85-98.	12.2	41
27	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
28	Predicting Carbon Storage in Tundra Soils of Arctic Alaska. Soil Science Society of America Journal, 2003, 67, 948.	1.2	38
29	The Importance of -€Deep-€Organic Carbon in Permafrost-€Affected Soils of Arctic Alaska. Soil Science Society of America Journal, 2007, 71, 1889-1892.	1.2	36
30	Identifying historical and future potential lake drainage events on the western Arctic coastal plain of Alaska. Permafrost and Periglacial Processes, 2020, 31, 110-127.	1.5	30
31	Drained thaw lake basin recovery on the western Arctic Coastal Plain of Alaska using high-resolution digital elevation models and remote sensing imagery. Remote Sensing of Environment, 2012, 119, 325-336.	4.6	28
32	NIGHT-FROST MODULATION OF NEAR-SURFACE SOIL-WATER ION CONCENTRATION AND THERMAL FIELDS. Physical Geography, 1989, 10, 336-348.	0.6	27
33	Quantifying sources of error in multitemporal multisensor lake mapping. International Journal of Remote Sensing, 2013, 34, 7887-7905.	1.3	27
34	Thermokarst Lakes on the Arctic Coastal Plain of Alaska: Spatial and Temporal Variability in Summer Water Temperature. Permafrost and Periglacial Processes, 2012, 23, 207-217.	1.5	26
35	Analysis of Thermal Structure of Arctic Lakes at Local and Regional Scales Using in Situ and Multisat-€8 Data. Water Resources Research, 2017, 53, 9642-9658.	1.7	24
36	Producing an Indigenous Knowledge Web GIS for Arctic Alaska Communities: Challenges, Successes, and Lessons Learned. Transactions in GIS, 2012, 16, 17-37.	1.0	23

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37	Soils of the Barrow region, Alaska ¹ . Polar Geography, 2001, 25, 163-181.	0.8	21
38	Spatial and Temporal Variation in Methane Concentrations, Fluxes, and Sources in Lakes in Arctic Alaska. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 2966-2981.	1.3	18
39	Recurring outburst floods from drained lakes: an emerging Arctic hazard. Frontiers in Ecology and the Environment, 2020, 18, 384-390.	1.9	18
40	Regional lake ice meltout patterns near Barrow, Alaska. Polar Geography, 2012, 35, 1-18.	0.8	17
41	Carbon Pools and Accumulation Rates in an Age-Series of Soils in Drained Thaw-Lake Basins, Arctic Alaska. Soil Science Society of America Journal, 2004, 68, 697.	1.2	16
42	Factors Affecting the Distribution of Populus balsamifera on the North Slope of Alaska, U.S.A. Arctic, Antarctic, and Alpine Research, 2003, 35, 331-340.	0.4	15
43	Accumulation of Excess Ground Ice in an Age Sequence of Drained Thermokarst Lake Basins, Arctic Alaska. Permafrost and Periglacial Processes, 2012, 23, 231-236.	1.5	15
44	Archaeal and bacterial communities across a chronosequence of drained lake basins in arctic alaska. Scientific Reports, 2015, 5, 18165.	1.6	15
45	Spatio-Temporal Analysis of Gyres in Oriented Lakes on the Arctic Coastal Plain of Northern Alaska Based on Remotely Sensed Images. Remote Sensing, 2014, 6, 9170-9193.	1.8	11
46	Predicting Carbon Storage in Tundra Soils of Arctic Alaska. Soil Science Society of America Journal, 2003, 67, 948-950.	1.2	10
47	Urban-rural contrasts in summer soil-surface temperature and active-layer thickness, Barrow, Alaska, USA. Polar Geography, 2013, 36, 183-201.	0.8	10
48	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
49	Spatial and temporal aspects of the lake effect on the southern shore of Lake Superior. Theoretical and Applied Climatology, 2012, 109, 415-428.	1.3	9
50	Geophysical Observations of Taliks Below Drained Lake Basins on the Arctic Coastal Plain of Alaska. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB020889.	1.4	9
51	Can Deep Groundwater Influx be Detected from the Geochemistry of Thermokarst Lakes in Arctic Alaska?. Permafrost and Periglacial Processes, 2017, 28, 552-557.	1.5	8
52	Remote Sensing-Based Statistical Approach for Defining Drained Lake Basins in a Continuous Permafrost Region, North Slope of Alaska. Remote Sensing, 2021, 13, 2539.	1.8	8
53	FROST MOUNDS AT TOOLIK LAKE, ALASKA. Physical Geography, 1987, 8, 148-159.	0.6	6
54	SPECTRAL SIGNATURE OF COUPLED FLOW IN THE REFREEZING ACTIVE LAYER, NORTHERN ALASKA. Physical Geography, 1992, 13, 273-284.	0.6	6

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55	Comment on "Formation of oriented thaw lakes by thaw slumping" by Jon D. Pelletier. Journal of Geophysical Research, 2006, 111, .	3.3	6
56	Formation of injection frost mounds over winter 1995-1996 at barrow, Alaska. Polar Geography, 1996, 20, 235-248.	0.8	5
57	A new Stefan equation to characterize the evolution of thermokarst lake and talik geometry. Cryosphere, 2022, 16, 1247-1264.	1.5	5
58	THERMALLY DRIVEN SORPTION, DESORPTION, AND MOISTURE MIGRATION IN THE ACTIVE LAYER IN CENTRAL ALASKA. Physical Geography, 1996, 17, 77-90.	0.6	4
59	Environmental, cultural, and social change in Arctic Alaska as observed by Inupiat elders over their lifetimes: a GIS synthesis. Polar Geography, 2013, 36, 221-231.	0.8	4
60	Post-storm Water Circulation Patterns in Teshekpuk Lake (Alaska) Derived from Sequential Optical Satellite Images. Permafrost and Periglacial Processes, 2017, 28, 322-330.	1.5	3
61	Spatial snowdrift modelling for an open natural terrain using a physically-based linear particle distribution equation. Hydrological Processes, 2022, 36, .	1.1	3
62	Sikuliqirug: ice dynamics of the Meade River - Arctic Alaska, from freezeup to breakup from time-series ground imagery. Polar Geography, 2010, 33, 115-137.	0.8	2
63	Permafrost Destabilization and Thermokarst Following Snow Fence Installation, Barrow, Alaska, U.S.A. , 0, .		1
64	The Use of Electrical Resistivity Methods for Ground Ice Characterization for Engineering. , 2017, , .		0