

Larry D Hinzman

List of Publications by Year in descending order

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76
papers

10,681
citations

57758

44
h-index

76900

74
g-index

79
all docs

79
docs citations

79
times ranked

8818
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence and Implications of Recent Climate Change in Northern Alaska and Other Arctic Regions. <i>Climatic Change</i> , 2005, 72, 251-298.	3.6	1,219
2	Role of Land-Surface Changes in Arctic Summer Warming. <i>Science</i> , 2005, 310, 657-660.	12.6	1,186
3	Disappearing Arctic Lakes. <i>Science</i> , 2005, 308, 1429-1429.	12.6	858
4	Acclimation of ecosystem CO ₂ exchange in the Alaskan Arctic in response to decadal climate warming. <i>Nature</i> , 2000, 406, 978-981.	27.8	551
5	Pan-Arctic ice-wedge degradation in warming permafrost and its influence on tundra hydrology. <i>Nature Geoscience</i> , 2016, 9, 312-318.	12.9	527
6	Remote sensing of vegetation and land-cover change in Arctic Tundra Ecosystems. <i>Remote Sensing of Environment</i> , 2004, 89, 281-308.	11.0	522
7	Shrinking thermokarst ponds and groundwater dynamics in discontinuous permafrost near council, Alaska. <i>Permafrost and Periglacial Processes</i> , 2003, 14, 151-160.	3.4	405
8	Hydrologic and thermal properties of the active layer in the Alaskan Arctic. <i>Cold Regions Science and Technology</i> , 1991, 19, 95-110.	3.5	316
9	Analysis of the Arctic System for Freshwater Cycle Intensification: Observations and Expectations. <i>Journal of Climate</i> , 2010, 23, 5715-5737.	3.2	303
10	Siberian Lena River hydrologic regime and recent change. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 14-1-ACL 14-10.	3.3	281
11	Impacts of wildfire on the permafrost in the boreal forests of Interior Alaska. <i>Journal of Geophysical Research</i> , 2003, 108, FFR 4-1.	3.3	231
12	Temperature and precipitation history of the Arctic. <i>Quaternary Science Reviews</i> , 2010, 29, 1679-1715.	3.0	226
13	Non-conductive heat transfer associated with frozen soils. <i>Global and Planetary Change</i> , 2001, 29, 275-292.	3.5	217
14	The arctic freshwater system: Changes and impacts. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	203
15	An analysis of streamflow hydrology in the Kuparuk River Basin, Arctic Alaska: a nested watershed approach. <i>Journal of Hydrology</i> , 1998, 206, 39-57.	5.4	185
16	Thermal response of the active layer to climatic warming in a permafrost environment. <i>Cold Regions Science and Technology</i> , 1991, 19, 111-122.	3.5	179
17	Trajectory of the Arctic as an integrated system. <i>Ecological Applications</i> , 2013, 23, 1837-1868.	3.8	166
18	Vegetation-soil-thaw-depth relationships along a low-arctic bioclimate gradient, Alaska: synthesis of information from the ATLAS studies. <i>Permafrost and Periglacial Processes</i> , 2003, 14, 103-123.	3.4	159

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19	Hydrograph separations in an arctic watershed using mixing model and graphical techniques. <i>Water Resources Research</i> , 1997, 33, 1707-1719.	4.2	147
20	Snow hydrology of a headwater Arctic basin: 1. Physical measurements and process studies. <i>Water Resources Research</i> , 1991, 27, 1099-1109.	4.2	134
21	A distributed thermal model for calculating soil temperature profiles and depth of thaw in permafrost regions. <i>Journal of Geophysical Research</i> , 1998, 103, 28975-28991.	3.3	127
22	Arctic system on trajectory to new, seasonally ice-free state. <i>Eos</i> , 2005, 86, 309.	0.1	124
23	Bacterial community structure and soil properties of a subarctic tundra soil in Council, Alaska. <i>FEMS Microbiology Ecology</i> , 2014, 89, 465-475.	2.7	121
24	The Arctic Water Resource Vulnerability Index: An Integrated Assessment Tool for Community Resilience and Vulnerability with Respect to Freshwater. <i>Environmental Management</i> , 2008, 42, 523-541.	2.7	120
25	An analysis of an arctic channel network using a digital elevation model. <i>Geomorphology</i> , 1999, 29, 339-353.	2.6	114
26	The role of surface storage in a low-gradient Arctic watershed. <i>Water Resources Research</i> , 2003, 39, .	4.2	114
27	Seasonal export of carbon, nitrogen, and major solutes from Alaskan catchments with discontinuous permafrost. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	105
28	Effects of permafrost degradation on woody vegetation at arctic treeline on the Seward Peninsula, Alaska. <i>Permafrost and Periglacial Processes</i> , 2003, 14, 93-101.	3.4	93
29	Nonlinear controls on evapotranspiration in arctic coastal wetlands. <i>Biogeosciences</i> , 2011, 8, 3375-3389.	3.3	93
30	Arctic Hydrology and Climate Change. , 1992, , 35-57.		89
31	Potential response of an Arctic watershed during a period of global warming. <i>Journal of Geophysical Research</i> , 1992, 97, 2811-2820.	3.3	88
32	Nitrogen loss from watersheds of interior Alaska underlain with discontinuous permafrost. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	79
33	Correction to "Seasonal export of carbon, nitrogen, and major solutes from Alaskan catchments with discontinuous permafrost" <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	72
34	An arctic hydrologic system in transition: Feedbacks and impacts on terrestrial, marine, and human life. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	69
35	Snowmelt Modeling at Small Alaskan Arctic Watershed. <i>Journal of Hydrologic Engineering - ASCE</i> , 1997, 2, 204-210.	1.9	66
36	Hydrology of a Tundra Wetland Complex on the Alaskan Arctic Coastal Plain, U.S.A.. <i>Arctic and Alpine Research</i> , 1996, 28, 311.	1.3	64

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37	Surface Energy Balance on the Arctic Tundra: Measurements and Models. <i>Journal of Climate</i> , 1999, 12, 2585-2606.	3.2	64
38	Development and application of a spatially-distributed Arctic hydrological and thermal process model (ARHYTHM). <i>Hydrological Processes</i> , 2000, 14, 1017-1044.	2.6	62
39	FROSTFIRE: An experimental approach to predicting the climate feedbacks from the changing boreal fire regime. <i>Journal of Geophysical Research</i> , 2003, 108, FFR 9-1.	3.3	60
40	Spring and aufeis (icing) hydrology in Brooks Range, Alaska. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	60
41	Long-term annual water balance analysis of the Lena River. <i>Global and Planetary Change</i> , 2005, 48, 84-95.	3.5	57
42	Snow hydrology of a headwater Arctic basin: 2. Conceptual analysis and computer modeling. <i>Water Resources Research</i> , 1991, 27, 1111-1121.	4.2	54
43	Change detection on Alaska's North Slope using repeat-pass ERS-1 SAR images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1993, 31, 227-236.	6.3	54
44	Evapotranspiration from a Wetland Complex on the Arctic Coastal Plain of Alaska. <i>Hydrology Research</i> , 1998, 29, 303-330.	2.7	52
45	The influence of human activity in the Arctic on climate and climate impacts. <i>Climatic Change</i> , 2007, 82, 77-92.	3.6	47
46	An evaluation of the Wyoming Gauge System for snowfall measurement. <i>Water Resources Research</i> , 2000, 36, 2665-2677.	4.2	46
47	Physical short-term changes after a tussock tundra fire, Seward Peninsula, Alaska. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	43
48	InSAR Detection and Field Evidence for Thermokarst after a Tundra Wildfire, Using ALOS-PALSAR. <i>Remote Sensing</i> , 2016, 8, 218.	4.0	40
49	Freshwater vulnerabilities and resilience on the Seward Peninsula: Integrating multiple dimensions of landscape change. <i>Global Environmental Change</i> , 2008, 18, 256-270.	7.8	38
50	Removal of terrain effects from SAR satellite imagery of Arctic tundra. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1995, 33, 185-194.	6.3	36
51	Application of Oxygen-18 Tracer Techniques to Arctic Hydrological Processes. <i>Arctic and Alpine Research</i> , 1993, 25, 247.	1.3	33
52	Hydrology of Imnavait Creek, an arctic watershed. <i>Ecography</i> , 1989, 12, 262-269.	4.5	32
53	Effect of fire on dissolved organic carbon and inorganic solutes in spruce forest in the permafrost region of interior Alaska. <i>Soil Science and Plant Nutrition</i> , 2003, 49, 25-29.	1.9	32
54	Contrasting extreme runoff events in areas of continuous permafrost, Arctic Alaska. <i>Hydrology Research</i> , 2008, 39, 287-298.	2.7	32

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55	Tundra water budget and implications of precipitation underestimation. <i>Water Resources Research</i> , 2017, 53, 6472-6486.	4.2	26
56	Spatio-temporal evolution of a thermokarst in Interior Alaska. <i>Cold Regions Science and Technology</i> , 2009, 56, 39-49.	3.5	25
57	Volume change of McCall Glacier, Arctic Alaska, USA, 1956–2003. <i>Annals of Glaciology</i> , 2005, 42, 409-416.	1.4	24
58	Application of TopoFlow, a spatially distributed hydrological model, to the Imnavait Creek watershed, Alaska. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	23
59	Influence of the physical terrestrial Arctic in the eco-climate system. <i>Ecological Applications</i> , 2013, 23, 1778-1797.	3.8	20
60	Geomorphological and geochemistry changes in permafrost after the 2002 tundra wildfire in Kougarak, Seward Peninsula, Alaska. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 1697-1715.	2.8	20
61	Spatial estimation of soil moisture using synthetic aperture radar in Alaska. <i>Advances in Space Research</i> , 1999, 24, 935-940.	2.6	16
62	Numeric Simulation of Thermokarst Formation During Disturbance. , 1997, , 191-211.		16
63	Ground-Based and Satellite-Derived Measurements of Surface Albedo on the North Slope of Alaska. <i>Journal of Hydrometeorology</i> , 2003, 4, 77-91.	1.9	13
64	Supersite as a common platform for multi-observations in Alaska for a collaborative framework between JAMSTEC and IARC. <i>JAMSTEC Report of Research and Development</i> , 2011, 12, 61-69.	0.2	13
65	Integrating local knowledge and science: economic consequences of driftwood harvest in a changing climate. <i>Ecology and Society</i> , 2015, 20, .	2.3	12
66	Exploratory Analysis of the Winter Chemistry of Five Lakes on the North Slope of Alaska ¹ . <i>Journal of the American Water Resources Association</i> , 2008, 44, 316-327.	2.4	11
67	Fine root biomass in two black spruce stands in interior Alaska: effects of different permafrost conditions. <i>Trees - Structure and Function</i> , 2016, 30, 441-449.	1.9	11
68	Evaporation from land surface in high latitude areas: a review of methods and study results. <i>Hydrology Research</i> , 2006, 37, 393-411.	2.7	10
69	Potential impacts of a changing Arctic on community water sources on the Seward Peninsula, Alaska. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	10
70	Towards improved parameterization of a macroscale hydrologic model in a discontinuous permafrost boreal forest ecosystem. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 4663-4680.	4.9	10
71	Morphological and physicochemical traits of leaves of different life-forms of various broadleaf woody plants in interior Alaska. <i>Canadian Journal of Forest Research</i> , 2016, 46, 1475-1482.	1.7	9
72	Hydrologic Investigations of Groundwater and Surface-water Interactions In Subarctic Alaska. <i>Hydrology Research</i> , 2000, 31, 339-356.	2.7	4

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73	Permafrost in a dynamic environment. Permafrost and Periglacial Processes, 2003, 14, 89-91.	3.4	4
74	Introduction to special section on Changes in the Arctic Freshwater System: Identification, Attribution, and Impacts at Local and Global Scales. Journal of Geophysical Research, 2008, 113, .	3.3	2
75	Thermokarst Evolution in Sub-Arctic Alaska: A Study Case. , 2005, , .		2
76	CO ₂ Exchange of a Sphagnum fuscum Community in Interior Alaska. J Agricultural Meteorology, 2005, 60, 737-740.	1.5	0