

# 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	Tundra water budget and implications of precipitation underestimation. <i>Water Resources Research</i> , 2017, 53, 6472-6486.	4.2	26
2	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
3	InSAR Detection and Field Evidence for Thermokarst after a Tundra Wildfire, Using ALOS-PALSAR. <i>Remote Sensing</i> , 2016, 8, 218.	4.0	40
4	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
5	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
6	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
7	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
8	Integrating local knowledge and science: economic consequences of driftwood harvest in a changing climate. <i>Ecology and Society</i> , 2015, 20, .	2.3	12
9	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
10	Trajectory of the Arctic as an integrated system. <i>Ecological Applications</i> , 2013, 23, 1837-1868.	3.8	166
11	Influence of the physical terrestrial Arctic in the eco-climate system. <i>Ecological Applications</i> , 2013, 23, 1778-1797.	3.8	20
12	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
13	Nonlinear controls on evapotranspiration in arctic coastal wetlands. <i>Biogeosciences</i> , 2011, 8, 3375-3389.	3.3	93
14	Analysis of the Arctic System for Freshwater Cycle Intensification: Observations and Expectations. <i>Journal of Climate</i> , 2010, 23, 5715-5737.	3.2	303
15	Temperature and precipitation history of the Arctic. <i>Quaternary Science Reviews</i> , 2010, 29, 1679-1715.	3.0	226
16	Spatio-temporal evolution of a thermokarst in Interior Alaska. <i>Cold Regions Science and Technology</i> , 2009, 56, 39-49.	3.5	25
17	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
18	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

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19	Exploratory Analysis of the Winter Chemistry of Five Lakes on the North Slope of Alaska<sup>1</sup>. Journal of the American Water Resources Association, 2008, 44, 316-327.	2.4	11
20	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
21	Freshwater vulnerabilities and resilience on the Seward Peninsula: Integrating multiple dimensions of landscape change. Global Environmental Change, 2008, 18, 256-270.	7.8	38
22	Contrasting extreme runoff events in areas of continuous permafrost, Arctic Alaska. Hydrology Research, 2008, 39, 287-298.	2.7	32
23	Physical short-term changes after a tussock tundra fire, Seward Peninsula, Alaska. Journal of Geophysical Research, 2007, 112, .	3.3	43
24	Spring and aufeis (icing) hydrology in Brooks Range, Alaska. Journal of Geophysical Research, 2007, 112, .	3.3	60
25	Application of TopoFlow, a spatially distributed hydrological model, to the Imnavait Creek watershed, Alaska. Journal of Geophysical Research, 2007, 112, .	3.3	23
26	Potential impacts of a changing Arctic on community water sources on the Seward Peninsula, Alaska. Journal of Geophysical Research, 2007, 112, .	3.3	10
27	The arctic freshwater system: Changes and impacts. Journal of Geophysical Research, 2007, 112, .	3.3	203
28	The influence of human activity in the Arctic on climate and climate impacts. Climatic Change, 2007, 82, 77-92.	3.6	47
29	Seasonal export of carbon, nitrogen, and major solutes from Alaskan catchments with discontinuous permafrost. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	105
30	Correction to "Seasonal export of carbon, nitrogen, and major solutes from Alaskan catchments with discontinuous permafrost". Journal of Geophysical Research, 2006, 111, .	3.3	72
31	Evaporation from land surface in high latitude areas: a review of methods and study results. Hydrology Research, 2006, 37, 393-411.	2.7	10
32	Volume change of McCall Glacier, Arctic Alaska, USA, 1956-2003. Annals of Glaciology, 2005, 42, 409-416.	1.4	24
33	Evidence and Implications of Recent Climate Change in Northern Alaska and Other Arctic Regions. Climatic Change, 2005, 72, 251-298.	3.6	1,219
34	CO <sub>2</sub> Exchange of a Sphagnum fuscum Community in Interior Alaska. J Agricultural Meteorology, 2005, 60, 737-740.	1.5	0
35	Disappearing Arctic Lakes. Science, 2005, 308, 1429-1429.	12.6	858
36	Long-term annual water balance analysis of the Lena River. Global and Planetary Change, 2005, 48, 84-95.	3.5	57

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37	Nitrogen loss from watersheds of interior Alaska underlain with discontinuous permafrost. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	79
38	Arctic system on trajectory to new, seasonally ice-free state. <i>Eos</i> , 2005, 86, 309.	0.1	124
39	Role of Land-Surface Changes in Arctic Summer Warming. <i>Science</i> , 2005, 310, 657-660.	12.6	1,186
40	Thermokarst Evolution in Sub-Arctic Alaska: A Study Case. , 2005, , .		2
41	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
42	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
43	Permafrost in a dynamic environment. <i>Permafrost and Periglacial Processes</i> , 2003, 14, 89-91.	3.4	4
44	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
45	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
46	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
47	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
48	The role of surface storage in a low-gradient Arctic watershed. <i>Water Resources Research</i> , 2003, 39, .	4.2	114
49	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
50	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
51	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
52	Non-conductive heat transfer associated with frozen soils. <i>Global and Planetary Change</i> , 2001, 29, 275-292.	3.5	217
53	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
54	Acclimation of ecosystem CO <sub>2</sub> exchange in the Alaskan Arctic in response to decadal climate warming. <i>Nature</i> , 2000, 406, 978-981.	27.8	551

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55	Hydrologic Investigations of Groundwater and Surface-water Interactions In Subarctic Alaska. Hydrology Research, 2000, 31, 339-356.	2.7	4
56	An evaluation of the Wyoming Gauge System for snowfall measurement. Water Resources Research, 2000, 36, 2665-2677.	4.2	46
57	Spatial estimation of soil moisture using synthetic aperture radar in Alaska. Advances in Space Research, 1999, 24, 935-940.	2.6	16
58	An analysis of an arctic channel network using a digital elevation model. Geomorphology, 1999, 29, 339-353.	2.6	114
59	Surface Energy Balance on the Arctic Tundra: Measurements and Models. Journal of Climate, 1999, 12, 2585-2606.	3.2	64
60	An analysis of streamflow hydrology in the Kuparuk River Basin, Arctic Alaska: a nested watershed approach. Journal of Hydrology, 1998, 206, 39-57.	5.4	185
61	A distributed thermal model for calculating soil temperature profiles and depth of thaw in permafrost regions. Journal of Geophysical Research, 1998, 103, 28975-28991.	3.3	127
62	Evapotranspiration from a Wetland Complex on the Arctic Coastal Plain of Alaska. Hydrology Research, 1998, 29, 303-330.	2.7	52
63	Snowmelt Modeling at Small Alaskan Arctic Watershed. Journal of Hydrologic Engineering - ASCE, 1997, 2, 204-210.	1.9	66
64	Hydrograph separations in an arctic watershed using mixing model and graphical techniques. Water Resources Research, 1997, 33, 1707-1719.	4.2	147
65	Numeric Simulation of Thermokarst Formation During Disturbance. , 1997, , 191-211.		16
66	Hydrology of a Tundra Wetland Complex on the Alaskan Arctic Coastal Plain, U.S.A.. Arctic and Alpine Research, 1996, 28, 311.	1.3	64
67	Removal of terrain effects from SAR satellite imagery of Arctic tundra. IEEE Transactions on Geoscience and Remote Sensing, 1995, 33, 185-194.	6.3	36
68	Change detection on Alaska's North Slope using repeat-pass ERS-1 SAR images. IEEE Transactions on Geoscience and Remote Sensing, 1993, 31, 227-236.	6.3	54
69	Application of Oxygen-18 Tracer Techniques to Arctic Hydrological Processes. Arctic and Alpine Research, 1993, 25, 247.	1.3	33
70	Potential repsonse of an Arctic watershed during a period of global warming. Journal of Geophysical Research, 1992, 97, 2811-2820.	3.3	88
71	Arctic Hydrology and Climate Change. , 1992, , 35-57.		89
72	Hydrologic and thermal properties of the active layer in the Alaskan Arctic. Cold Regions Science and Technology, 1991, 19, 95-110.	3.5	316

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73	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
74	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
75	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
76	Hydrology of Imnavait Creek, an arctic watershed. <i>Ecography</i> , 1989, 12, 262-269.	4.5	32