

Christopher D Arp

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

2,543
citations

201385

27
h-index

205818

48
g-index

64
all docs

64
docs citations

64
times ranked

2571
citing authors

#	ARTICLE	IF	CITATIONS
1	Increase in the rate and uniformity of coastline erosion in Arctic Alaska. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	252
2	Modern thermokarst lake dynamics in the continuous permafrost zone, northern Seward Peninsula, Alaska. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	250
3	Recent Arctic tundra fire initiates widespread thermokarst development. <i>Scientific Reports</i> , 2015, 5, 15865.	1.6	139
4	Fire Behavior, Weather, and Burn Severity of the 2007 Anaktuvuk River Tundra Fire, North Slope, Alaska. <i>Arctic, Antarctic, and Alpine Research</i> , 2009, 41, 309-316.	0.4	115
5	Hydrogeomorphic processes of thermokarst lakes with groundedâ€œice and floatingâ€œice regimes on the Arctic coastal plain, Alaska. <i>Hydrological Processes</i> , 2011, 25, 2422-2438.	1.1	106
6	Hydrologic control of nitrogen removal, storage, and export in a mountain stream. <i>Limnology and Oceanography</i> , 2009, 54, 2128-2142.	1.6	83
7	Observing a Catastrophic Thermokarst Lake Drainage in Northern Alaska. <i>Permafrost and Periglacial Processes</i> , 2015, 26, 119-128.	1.5	76
8	Shifting balance of thermokarst lake ice regimes across the Arctic Coastal Plain of northern Alaska. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	73
9	A decade of remotely sensed observations highlight complex processes linked to coastal permafrost bluff erosion in the Arctic. <i>Environmental Research Letters</i> , 2018, 13, 115001.	2.2	73
10	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
11	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
12	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
13	Depth, ice thickness, and iceâ€œout timing cause divergent hydrologic responses among Arctic lakes. <i>Water Resources Research</i> , 2015, 51, 9379-9401.	1.7	66
14	Tundra be dammed: Beaver colonization of the Arctic. <i>Global Change Biology</i> , 2018, 24, 4478-4488.	4.2	66
15	Recent lake iceâ€œout phenology within and among lake districts of Alaska, U.S.A. <i>Limnology and Oceanography</i> , 2013, 58, 2013-2028.	1.6	59
16	Identification of unrecognized tundra fire events on the north slope of Alaska. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 1334-1344.	1.3	58
17	Analyzing floating and bedfast lake ice regimes across Arctic Alaska using 25â€œyears of space-borne SAR imagery. <i>Remote Sensing of Environment</i> , 2018, 209, 660-676.	4.6	57
18	Two mechanisms of aquatic and terrestrial habitat change along an Alaskan Arctic coastline. <i>Polar Biology</i> , 2010, 33, 1629-1640.	0.5	42

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19	Stream geomorphology in a mountain lake district: hydraulic geometry, sediment sources and sinks, and downstream lake effects. <i>Earth Surface Processes and Landforms</i> , 2007, 32, 525-543.	1.2	41
20	Drainage Network Structure and Hydrologic Behavior of Three Lake-Rich Watersheds on the Arctic Coastal Plain, Alaska. <i>Arctic, Antarctic, and Alpine Research</i> , 2012, 44, 385-398.	0.4	41
21	Assessment of pingo distribution and morphometry using an IfSAR derived digital surface model, western Arctic Coastal Plain, Northern Alaska. <i>Geomorphology</i> , 2012, 138, 1-14.	1.1	37
22	Process-Based Coastal Erosion Modeling for Drew Point, North Slope, Alaska. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2012, 138, 122-130.	0.5	36
23	A synthesis of thermokarst lake water balance in high-latitude regions of North America from isotope tracers. <i>Arctic Science</i> , 2017, 3, 118-149.	0.9	34
24	Surface-water hydrodynamics and regimes of a small mountain stream—lake ecosystem. <i>Journal of Hydrology</i> , 2006, 329, 500-513.	2.3	33
25	Seasonal cues of Arctic grayling movement in a small Arctic stream: the importance of surface water connectivity. <i>Environmental Biology of Fishes</i> , 2016, 99, 49-65.	0.4	33
26	Recent Extreme Runoff Observations From Coastal Arctic Watersheds in Alaska. <i>Water Resources Research</i> , 2017, 53, 9145-9163.	1.7	32
27	Predicting Late Winter Dissolved Oxygen Levels in Arctic Lakes Using Morphology and Landscape Metrics. <i>Environmental Management</i> , 2016, 57, 463-473.	1.2	31
28	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
29	Discontinuities in stream nutrient uptake below lakes in mountain drainage networks. <i>Limnology and Oceanography</i> , 2007, 52, 1978-1990.	1.6	27
30	Classification of freshwater ice conditions on the Alaskan Arctic Coastal Plain using ground penetrating radar and TerraSAR-X satellite data. <i>International Journal of Remote Sensing</i> , 2013, 34, 8267-8279.	1.3	27
31	Erosional history of Cape Halkett and contemporary monitoring of bluff retreat, Beaufort Sea coast, Alaska. <i>Polar Geography</i> , 2009, 32, 129-142.	0.8	26
32	Distribution and biophysical processes of beaded streams in Arctic permafrost landscapes. <i>Biogeosciences</i> , 2015, 12, 29-47.	1.3	25
33	Arctic sea ice decline contributes to thinning lake ice trend in northern Alaska. <i>Environmental Research Letters</i> , 2016, 11, 074022.	2.2	22
34	Ice roads through lake-rich Arctic watersheds: Integrating climate uncertainty and freshwater habitat responses into adaptive management. <i>Arctic, Antarctic, and Alpine Research</i> , 2019, 51, 9-23.	0.4	22
35	Transient Electromagnetic Surveys for the Determination of Talik Depth and Geometry Beneath Thermokarst Lakes. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 9310-9323.	1.4	21
36	Disruptions of stream sediment size and stability by lakes in mountain watersheds: potential effects on periphyton biomass. <i>Journal of the North American Benthological Society</i> , 2007, 26, 390-400.	3.0	20

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37	A lake-centric geospatial database to guide research and inform management decisions in an Arctic watershed in northern Alaska experiencing climate and land-use changes. <i>Ambio</i> , 2017, 46, 769-786.	2.8	19
38	Evidence of Hydrological Intensification and Regime Change From Northern Alaskan Watershed Runoff. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089186.	1.5	19
39	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
40	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
41	The complementary role of lentic and lotic habitats for Arctic grayling in a complex stream-lake network in Arctic Alaska. <i>Ecology of Freshwater Fish</i> , 2019, 28, 209-221.	0.7	17
42	Impacts of shore expansion and catchment characteristics on lacustrine thermokarst records in permafrost lowlands, Alaska Arctic Coastal Plain. <i>Arktos</i> , 2016, 2, 1.	1.0	16
43	Potential shifts in zooplankton community structure in response to changing ice regimes and hydrologic connectivity. <i>Arctic, Antarctic, and Alpine Research</i> , 2019, 51, 327-345.	0.4	15
44	Modern Erosion Rates and Loss of Coastal Features and Sites, Beaufort Sea Coastline, Alaska. <i>Arctic</i> , 2009, 61, .	0.2	14
45	Analyzing the Impacts of Off-Road Vehicle (ORV) Trails on Watershed Processes in Wrangell-St. Elias National Park and Preserve, Alaska. <i>Environmental Management</i> , 2012, 49, 751-766.	1.2	13
46	The Polar WRF Downscaled Historical and Projected Twenty-First Century Climate for the Coast and Foothills of Arctic Alaska. <i>Frontiers in Earth Science</i> , 0, 5, .	0.8	13
47	Surface nuclear magnetic resonance observations of permafrost thaw below floating, bedfast, and transitional ice lakes. <i>Geophysics</i> , 2019, 84, EN33-EN45.	1.4	13
48	Analysis of Sediment Retention in Western Riverine Wetlands: The Yampa River Watershed, Colorado, USA. <i>Environmental Management</i> , 2004, 33, 318-30.	1.2	11
49	Contrasting lake ice responses to winter climate indicate future variability and trends on the Alaskan Arctic Coastal Plain. <i>Environmental Research Letters</i> , 2018, 13, 125001.	2.2	11
50	Estimation of snow accumulation over frozen Arctic lakes using repeat ICESat laser altimetry observations – A case study in northern Alaska. <i>Remote Sensing of Environment</i> , 2018, 216, 529-543.	4.6	10
51	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
52	The effects of acid rock drainage on <i>Carex aquatilis</i> leaf litter decomposition in rocky Mountain fens. <i>Wetlands</i> , 1999, 19, 665-674.	0.7	7
53	Observation-derived ice growth curves show patterns and trends in maximum ice thickness and safe travel duration of Alaskan lakes and rivers. <i>Cryosphere</i> , 2020, 14, 3595-3609.	1.5	7
54	Landsat-derived bathymetry of lakes on the Arctic Coastal Plain of northern Alaska. <i>Earth System Science Data</i> , 2021, 13, 1135-1150.	3.7	6

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55	Modelling the impacts of projected sea ice decline on the low atmosphere and near-surface permafrost on the North Slope of Alaska. <i>International Journal of Climatology</i> , 2018, 38, 5491-5504.	1.5	5
56	Classifying connectivity to guide aquatic habitat management in an arctic coastal plain watershed experiencing land use and climate change. <i>Arctic, Antarctic, and Alpine Research</i> , 2020, 52, 476-490.	0.4	5
57	Remote sensing of lake ice phenology in Alaska. <i>Environmental Research Letters</i> , 2021, 16, 064007.	2.2	4
58	Trapped Under Ice: Spatial and Seasonal Dynamics of Dissolved Organic Matter Composition in Tundra Lakes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	3
59	Contrasting Historical and Recent Breakup Styles on the Meade River of Arctic Alaska in the Context of a Warming Climate. <i>American Journal of Climate Change</i> , 2013, 02, 165-172.	0.5	2
60	Lake basins drive variation in catchment-scale runoff response over a decade of increasing rainfall in Arctic Alaska. <i>Hydrological Processes</i> , 2022, 36, .	1.1	2
61	Radar imaging of winter seismic survey activity in the National Petroleum Reserve-Alaska. <i>Polar Record</i> , 2008, 44, 227-231.	0.4	1
62	Modeled streamflow response to scenarios of tundra lake water withdrawal and seasonal climate extremes, Arctic Coastal Plain, Alaska. <i>Water Resources Research</i> , 0, , .	1.7	0