Luke Copland

List of Publications by Year
in descending order

73 papers	2,227 citations	236925 25 h-index	254184 43 g-index
75 all docs	75 docs citations	75 times ranked	2233 citing authors

#	Article	IF	Citations
1	Retreat of Northern Hemisphere Marineâ€Terminating Glaciers, 2000â€“2020. Geophysical Research Letters, 2022, 49, e2021GL096501.	4.0	28
2	Seasonal and Multiyear Flow Variability on the Prince of Wales Icefield, Ellesmere Island: 2009â€“2019. Journal of Geophysical Research F: Earth Surface, 2022, 127, .	2.8	1
3	Glacier changes over the past 144 years at Alexandra Fiord, Ellesmere Island, Canada. Journal of Glaciology, 2021, 67, 511-522.	2.2	3
4	Evolution of the firn pack of Kaskawulsh Glacier, Yukon: meltwater effects, densification, and the development of a perennial firn aquifer. Cryosphere, 2021, 15, 2021-2040.	3.9	6
5	Using western science and Inuit knowledge to model ship-source noise exposure for cetaceans (marine mammals) in Tallurutiup Imanga (Lancaster Sound), Nunavut, Canada. Marine Policy, 2021, 130, 104557.	3.2	16
6	Changes in shipping navigability in the Canadian Arctic between 1972 and 2016. Facets, 2021, 6, 1069-1087.	2.4	9
7	Application of an improved surface energy balance model to two large valley glaciers in the St. Elias Mountains, Yukon. Journal of Glaciology, 2021, 67, 297-312.	2.2	3
8	Climate and surging of Donjek Glacier, Yukon, Canada. Arctic, Antarctic, and Alpine Research, 2020, 52, 264-280.	1.1	7
9	Draining and filling of ice-dammed lakes at the terminus of surge-type DaÅ„ ZhÃ¹r (Donjek) Glacier, Yukon, Canada. Canadian Journal of Earth Sciences, 2020, 57, 1337-1348.	1.3	6
10	Comparing simple albedo scaling methods for estimating Arctic glacier mass balance. Remote Sensing of Environment, 2020, 246, 111858.	11.0	13
11	Evidence for Elevation-Dependent Warming in the St. Elias Mountains, Yukon, Canada. Journal of Climate, 2020, 33, 3253-3269.	3.2	22
12	Revised Estimates of Recent Mass Loss Rates for Penny Ice Cap, Baffin Island, Based on 2005â€“2014 Elevation Changes Modified for Firn Densification. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2019JF005440.	2.8	1
13	Ice Masses of the Eastern Canadian Arctic Archipelago. World Geomorphological Landscapes, 2020, , 297-314.	0.3	5
14	RADARSAT-2 Derived Glacier Velocities and Dynamic Discharge Estimates for the Canadian High Arctic: 2015â€“2020. Canadian Journal of Remote Sensing, 2020, 46, 695-714.	2.4	15
15	Seven decades of uninterrupted advance of Good Friday Glacier, Axel Heiberg Island, Arctic Canada. Journal of Glaciology, 2019, 65, 440-452.	2.2	9
16	Loss of floating glacier tongues from the Yelverton Bay region, Ellesmere Island, Canada. Journal of Glaciology, 2019, 65, 376-394.	2.2	9
17	Terminus advance, kinematics and mass redistribution during eight surges of Donjek Glacier, St. Elias Range, Canada, 1935 to 2016. Journal of Glaciology, 2019, 65, 565-579.	2.2	18
18	Iceberg production and characteristics around the Prince of Wales Icefield, Ellesmere Island, 1997-2015. Arctic, Antarctic, and Alpine Research, 2019, 51, 412-427.	1.1	3

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19	Changing access to ice, land and water in Arctic communities. Nature Climate Change, 2019, 9, 335-339.	18.8	38
20	Atmospheric forcing of rapid marine-terminating glacier retreat in the Canadian Arctic Archipelago. Science Advances, 2019, 5, eaau8507.	10.3	48
21	Surface Velocities of Glaciers in Western Canada from Speckle-Tracking of ALOS PALSAR and RADARSAT-2 data. Canadian Journal of Remote Sensing, 2018, 44, 57-66.	2.4	16
22	Area change of glaciers across Northern Ellesmere Island, Nunavut, between ~1999 and ~2015. Journal of Glaciology, 2018, 64, 609-623.	2.2	18
23	Temporal and Spatial Patterns of Ship Traffic in the Canadian Arctic from 1990 to 2015 + Supplementary Appendix 1: Figs. S1â€“S7 (See Article Tools). Arctic, 2018, 71, .	0.4	124
24	River piracy and drainage basin reorganization led by climate-driven glacier retreat. Nature Geoscience, 2017, 10, 370-375.	12.9	107
25	Reply to the discussion by Ommanney on â€œGlacier velocities and dynamic discharge from the ice masses of Baffin Island and Bylot Island, Nunavut, Canadaâ€• Canadian Journal of Earth Sciences, 2017, 54, 112-112.	1.3	0
26	Variability in ice motion and dynamic discharge from Devon Ice Cap, Nunavut, Canada. Journal of Glaciology, 2017, 63, 436-449.	2.2	18
27	Multi-decadal reduction in glacier velocities and mechanisms driving deceleration at polythermal White Glacier, Arctic Canada. Journal of Glaciology, 2017, 63, 450-463.	2.2	14
28	Comparison of geodetic and glaciological mass budgets for White Glacier, Axel Heiberg Island, Canada. Journal of Glaciology, 2017, 63, 55-66.	2.2	32
29	Ice velocity changes on Penny Ice Cap, Baffin Island, since the 1950s. Journal of Glaciology, 2017, 63, 716-730.	2.2	13
30	Modelling intra-annual dynamics of a major marine-terminating Arctic glacier. Annals of Glaciology, 2017, 58, 118-130.	1.4	12
31	DEM extraction of the basal topography of the Canadian archipelago ICE caps via 2D automated layer-tracker. , 2017, , .		3
32	Changing contribution of peak velocity events to annual velocities following a multi-decadal slowdown at White Glacier. Annals of Glaciology, 2017, 58, 145-154.	1.4	7
33	Factors Contributing to Recent Arctic Ice Shelf Losses. Springer Polar Sciences, 2017, , 263-285.	0.1	13
34	Ice Island Drift Mechanisms in the Canadian High Arctic. Springer Polar Sciences, 2017, , 287-316.	0.1	5
35	An Inter-Comparison of Techniques for Determining Velocities of Maritime Arctic Glaciers, Svalbard, Using Radarsat-2 Wide Fine Mode Data. Remote Sensing, 2016, 8, 785.	4.0	20
36	Calving Behavior at Rink IsbrÃ¦, West Greenland, from Time-Lapse Photos. Arctic, Antarctic, and Alpine Research, 2016, 48, 263-277.	1.1	31

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37	White Glacier 2014, Axel Heiberg Island, Nunavut: mapped using Structure from Motion methods. Journal of Maps, 2016, 12, 1063-1071.	2.0	16
38	The accuracy of satellite-derived albedo for northern alpine and glaciated land covers. Polar Science, 2016, 10, 262-269.	1.2	21
39	Characterizing interannual variability of glacier dynamics and dynamic discharge (1999â€“2015) for the ice masses of Ellesmere and Axel Heiberg Islands, Nunavut, Canada. Journal of Geophysical Research F: Earth Surface, 2016, 121, 39-63.	2.8	39
40	Sensitivity of Barnes Ice Cap, Baffin Island, Canada, to climate state and internal dynamics. Journal of Geophysical Research F: Earth Surface, 2016, 121, 1516-1539.	2.8	26
41	The influence of declining sea ice on shipping activity in the Canadian Arctic. Geophysical Research Letters, 2016, 43, 12,146.	4.0	108
42	Assessment of the evolution in velocity of two debrisâ€covered valley glaciers in nepal and new zealand. Geografiska Annaler, Series A: Physical Geography, 2015, 97, 737-751.	1.5	18
43	Assessment of historical changes (1959-2012) and the causes of recent break-ups of the Petersen ice shelf, Nunavut, Canada. Annals of Glaciology, 2015, 56, 65-76.	1.4	13
44	Modern glacier velocities across the Icefield Ranges, St Elias Mountains, and variability at selected glaciers from 1959 to 2012. Journal of Glaciology, 2015, 61, 624-634.	2.2	32
45	CryoSat-2 delivers monthly and inter-annual surface elevation change for Arctic ice caps. Cryosphere, 2015, 9, 1895-1913.	3.9	48
46	Glacier velocities and dynamic discharge from the ice masses of Baffin Island and Bylot Island, Nunavut, Canada. Canadian Journal of Earth Sciences, 2015, 52, 980-989.	1.3	23
47	Decadal-Scale Variations in Glacier Area Changes Across the Southern Patagonian Icefield Since the 1970s. Arctic, Antarctic, and Alpine Research, 2015, 47, 147-167.	1.1	17
48	Glacier velocities and dynamic ice discharge from the Queen Elizabeth Islands, Nunavut, Canada. Geophysical Research Letters, 2014, 41, 484-490.	4.0	47
49	Changing sea ice conditions and marine transportation activity in Canadian Arctic waters between 1990 and 2012. Climatic Change, 2014, 123, 161-173.	3.6	123
50	Remote sensing of recent glacier changes in the Canadian Arctic. , 2014, , 205-228.		24
51	Characteristics of the last five surges of Lowell Glacier, Yukon, Canada, since 1948. Journal of Glaciology, 2014, 60, 113-123.	2.2	34
52	Contemporary Glacier Processes and Global Change: Recent Observations from Kaskawulsh Glacier and the Donjek Range, St. Elias Mountains. Arctic, 2014, 67, 22.	0.4	14
53	Spatial patterns of snow accumulation across Belcher Glacier, Devon Ice Cap, Nunavut, Canada. Journal of Glaciology, 2013, 59, 874-882.	2.2	8
54	Loss of Multiyear Landfast Sea Ice from Yelverton Bay, Ellesmere Island, Nunavut, Canada. Arctic, Antarctic, and Alpine Research, 2012, 44, 210-221.	1.1	17

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55	Recent climate-related terrestrial biodiversity research in Canada's Arctic national parks: review, summary, and management implications. Biodiversity, 2012, 13, 157-173.	1.1	2
56	Relationships between iceberg plumes and sea-ice conditions on northeast Devon Ice Cap, Nunavut, Canada. Annals of Glaciology, 2012, 53, 1-9.	1.4	9
57	Variability and change in the Canadian cryosphere. Climatic Change, 2012, 115, 59-88.	3.6	79
58	Volume and area changes of the Milne Ice Shelf, Ellesmere Island, Nunavut, Canada, since 1950. Journal of Geophysical Research, 2012, 117, .	3.3	18
59	Summer melt rates on Penny Ice Cap, Baffin Island: Past and recent trends and implications for regional climate. Journal of Geophysical Research, 2012, 117, .	3.3	50
60	Spatial and temporal variation of ice motion and ice flux from Devon Ice Cap, Nunavut, Canada. Journal of Glaciology, 2012, 58, 657-664.	2.2	27
61	Context for the Recent Massive Petermann Glacier Calving Event. Eos, 2011, 92, 117-118.	0.1	35
62	Expanded and Recently Increased Glacier Surging in the Karakoram. Arctic, Antarctic, and Alpine Research, 2011, 43, 503-516.	1.1	184
63	Recent volume and area changes of Kaskawulsh Glacier, Yukon, Canada. Journal of Glaciology, 2011, 57, 515-525.	2.2	22
64	Climate Change and Mountain Topographic Evolution in the Central Karakoram, Pakistan. Annals of the American Association of Geographers, 2010, 100, 772-793.	3.0	33
65	Ice velocity and climate variations for Baltoro Glacier, Pakistan. Journal of Glaciology, 2009, 55, 1061-1071.	2.2	97
66	Glacier velocities across the central Karakoram. Annals of Glaciology, 2009, 50, 41-49.	1.4	112
67	Rapid loss of the Ayles Ice Shelf, Ellesmere Island, Canada. Geophysical Research Letters, 2007, 34, .	4.0	66
68	Debris characteristics and ice-shelf dynamics in the ablation region of the McMurdo Ice Shelf, Antarctica. Journal of Glaciology, 2006, 52, 223-234.	2.2	37
69	Hydrology and dynamics of a polythermal (mostly cold) High Arctic glacier. Earth Surface Processes and Landforms, 2006, 31, 1463-1479.	2.5	32
70	The distribution and flow characteristics of surge-type glaciers in the Canadian High Arctic. Annals of Glaciology, 2003, 36, 73-81.	1.4	97
71	Enigmatic surface rolls of the Ellesmere Ice Shelf. Journal of Glaciology, 0, , 1-12.	2.2	0
72	Lateglacial and Holocene sedimentary dynamics in northwestern Baffin Bay as recorded in sediment cores from Cape Norton Shaw Inlet (Nunavut, Canada). Boreas, 0, , .	2.4	5

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73	Anomalous surface elevation, velocity and area changes of Split Lake Glacier, western Prince of Wales Icefield, Canadian High Arctic. Arctic Science, 0, , .	2.3	1