

Luke Copland

List of Publications by Year in descending order

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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	Expanded and Recently Increased Glacier Surging in the Karakoram. Arctic, Antarctic, and Alpine Research, 2011, 43, 503-516.	1.1	184
2	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
3	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
4	Glacier velocities across the central Karakoram. Annals of Glaciology, 2009, 50, 41-49.	1.4	112
5	The influence of declining sea ice on shipping activity in the Canadian Arctic. Geophysical Research Letters, 2016, 43, 12,146.	4.0	108
6	River piracy and drainage basin reorganization led by climate-driven glacier retreat. Nature Geoscience, 2017, 10, 370-375.	12.9	107
7	The distribution and flow characteristics of surge-type glaciers in the Canadian High Arctic. Annals of Glaciology, 2003, 36, 73-81.	1.4	97
8	Ice velocity and climate variations for Baltoro Glacier, Pakistan. Journal of Glaciology, 2009, 55, 1061-1071.	2.2	97
9	Variability and change in the Canadian cryosphere. Climatic Change, 2012, 115, 59-88.	3.6	79
10	Rapid loss of the Ayles Ice Shelf, Ellesmere Island, Canada. Geophysical Research Letters, 2007, 34, .	4.0	66
11	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
12	CryoSat-2 delivers monthly and inter-annual surface elevation change for Arctic ice caps. Cryosphere, 2015, 9, 1895-1913.	3.9	48
13	Atmospheric forcing of rapid marine-terminating glacier retreat in the Canadian Arctic Archipelago. Science Advances, 2019, 5, eaau8507.	10.3	48
14	Glacier velocities and dynamic ice discharge from the Queen Elizabeth Islands, Nunavut, Canada. Geophysical Research Letters, 2014, 41, 484-490.	4.0	47
15	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
16	Changing access to ice, land and water in Arctic communities. Nature Climate Change, 2019, 9, 335-339.	18.8	38
17	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
18	Context for the Recent Massive Petermann Glacier Calving Event. Eos, 2011, 92, 117-118.	0.1	35

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19	Characteristics of the last five surges of Lowell Glacier, Yukon, Canada, since 1948. <i>Journal of Glaciology</i> , 2014, 60, 113-123.	2.2	34
20	Climate Change and Mountain Topographic Evolution in the Central Karakoram, Pakistan. <i>Annals of the American Association of Geographers</i> , 2010, 100, 772-793.	3.0	33
21	Hydrology and dynamics of a polythermal (mostly cold) High Arctic glacier. <i>Earth Surface Processes and Landforms</i> , 2006, 31, 1463-1479.	2.5	32
22	Modern glacier velocities across the Icefield Ranges, St Elias Mountains, and variability at selected glaciers from 1959 to 2012. <i>Journal of Glaciology</i> , 2015, 61, 624-634.	2.2	32
23	Comparison of geodetic and glaciological mass budgets for White Glacier, Axel Heiberg Island, Canada. <i>Journal of Glaciology</i> , 2017, 63, 55-66.	2.2	32
24	Calving Behavior at Rink Isbr�, West Greenland, from Time-Lapse Photos. <i>Arctic, Antarctic, and Alpine Research</i> , 2016, 48, 263-277.	1.1	31
25	Retreat of Northern Hemisphere Marine-Terminating Glaciers, 2000-2020. <i>Geophysical Research Letters</i> , 2022, 49, e2021GL096501.	4.0	28
26	Spatial and temporal variation of ice motion and ice flux from Devon Ice Cap, Nunavut, Canada. <i>Journal of Glaciology</i> , 2012, 58, 657-664.	2.2	27
27	Sensitivity of Barnes Ice Cap, Baffin Island, Canada, to climate state and internal dynamics. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 1516-1539.	2.8	26
28	Remote sensing of recent glacier changes in the Canadian Arctic. , 2014, , 205-228.		24
29	Glacier velocities and dynamic discharge from the ice masses of Baffin Island and Bylot Island, Nunavut, Canada. <i>Canadian Journal of Earth Sciences</i> , 2015, 52, 980-989.	1.3	23
30	Recent volume and area changes of Kaskawulsh Glacier, Yukon, Canada. <i>Journal of Glaciology</i> , 2011, 57, 515-525.	2.2	22
31	Evidence for Elevation-Dependent Warming in the St. Elias Mountains, Yukon, Canada. <i>Journal of Climate</i> , 2020, 33, 3253-3269.	3.2	22
32	The accuracy of satellite-derived albedo for northern alpine and glaciated land covers. <i>Polar Science</i> , 2016, 10, 262-269.	1.2	21
33	An Inter-Comparison of Techniques for Determining Velocities of Maritime Arctic Glaciers, Svalbard, Using Radarsat-2 Wide Fine Mode Data. <i>Remote Sensing</i> , 2016, 8, 785.	4.0	20
34	Volume and area changes of the Milne Ice Shelf, Ellesmere Island, Nunavut, Canada, since 1950. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	18
35	Assessment of the evolution in velocity of two debris-covered valley glaciers in nepal and new zealand. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2015, 97, 737-751.	1.5	18
36	Variability in ice motion and dynamic discharge from Devon Ice Cap, Nunavut, Canada. <i>Journal of Glaciology</i> , 2017, 63, 436-449.	2.2	18

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37	Area change of glaciers across Northern Ellesmere Island, Nunavut, between ~1999 and ~2015. <i>Journal of Glaciology</i> , 2018, 64, 609-623.	2.2	18
38	Terminus advance, kinematics and mass redistribution during eight surges of Donjek Glacier, St. Elias Range, Canada, 1935 to 2016. <i>Journal of Glaciology</i> , 2019, 65, 565-579.	2.2	18
39	Loss of Multiyear Landfast Sea Ice from Yelverton Bay, Ellesmere Island, Nunavut, Canada. <i>Arctic, Antarctic, and Alpine Research</i> , 2012, 44, 210-221.	1.1	17
40	Decadal-Scale Variations in Glacier Area Changes Across the Southern Patagonian Icefield Since the 1970s. <i>Arctic, Antarctic, and Alpine Research</i> , 2015, 47, 147-167.	1.1	17
41	White Glacier 2014, Axel Heiberg Island, Nunavut: mapped using Structure from Motion methods. <i>Journal of Maps</i> , 2016, 12, 1063-1071.	2.0	16
42	Surface Velocities of Glaciers in Western Canada from Speckle-Tracking of ALOS PALSAR and RADARSAT-2 data. <i>Canadian Journal of Remote Sensing</i> , 2018, 44, 57-66.	2.4	16
43	Using western science and Inuit knowledge to model ship-source noise exposure for cetaceans (marine mammals) in Tallurutiup Imanga (Lancaster Sound), Nunavut, Canada. <i>Marine Policy</i> , 2021, 130, 104557.	3.2	16
44	RADARSAT-2 Derived Glacier Velocities and Dynamic Discharge Estimates for the Canadian High Arctic: 2015â€“2020. <i>Canadian Journal of Remote Sensing</i> , 2020, 46, 695-714.	2.4	15
45	Multi-decadal reduction in glacier velocities and mechanisms driving deceleration at polythermal White Glacier, Arctic Canada. <i>Journal of Glaciology</i> , 2017, 63, 450-463.	2.2	14
46	Contemporary Glacier Processes and Global Change: Recent Observations from Kaskawulsh Glacier and the Donjek Range, St. Elias Mountains. <i>Arctic</i> , 2014, 67, 22.	0.4	14
47	Assessment of historical changes (1959-2012) and the causes of recent break-ups of the Petersen ice shelf, Nunavut, Canada. <i>Annals of Glaciology</i> , 2015, 56, 65-76.	1.4	13
48	Ice velocity changes on Penny Ice Cap, Baffin Island, since the 1950s. <i>Journal of Glaciology</i> , 2017, 63, 716-730.	2.2	13
49	Comparing simple albedo scaling methods for estimating Arctic glacier mass balance. <i>Remote Sensing of Environment</i> , 2020, 246, 111858.	11.0	13
50	Factors Contributing to Recent Arctic Ice Shelf Losses. <i>Springer Polar Sciences</i> , 2017, , 263-285.	0.1	13
51	Modelling intra-annual dynamics of a major marine-terminating Arctic glacier. <i>Annals of Glaciology</i> , 2017, 58, 118-130.	1.4	12
52	Relationships between iceberg plumes and sea-ice conditions on northeast Devon Ice Cap, Nunavut, Canada. <i>Annals of Glaciology</i> , 2012, 53, 1-9.	1.4	9
53	Seven decades of uninterrupted advance of Good Friday Glacier, Axel Heiberg Island, Arctic Canada. <i>Journal of Glaciology</i> , 2019, 65, 440-452.	2.2	9
54	Loss of floating glacier tongues from the Yelverton Bay region, Ellesmere Island, Canada. <i>Journal of Glaciology</i> , 2019, 65, 376-394.	2.2	9

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55	Changes in shipping navigability in the Canadian Arctic between 1972 and 2016. <i>Facets</i> , 2021, 6, 1069-1087.	2.4	9
56	Spatial patterns of snow accumulation across Belcher Glacier, Devon Ice Cap, Nunavut, Canada. <i>Journal of Glaciology</i> , 2013, 59, 874-882.	2.2	8
57	Changing contribution of peak velocity events to annual velocities following a multi-decadal slowdown at White Glacier. <i>Annals of Glaciology</i> , 2017, 58, 145-154.	1.4	7
58	Climate and surging of Donjek Glacier, Yukon, Canada. <i>Arctic, Antarctic, and Alpine Research</i> , 2020, 52, 264-280.	1.1	7
59	Draining and filling of ice-dammed lakes at the terminus of surge-type DaÅ, ZhÃ¹r (Donjek) Glacier, Yukon, Canada. <i>Canadian Journal of Earth Sciences</i> , 2020, 57, 1337-1348.	1.3	6
60	Evolution of the firn pack of Kaskawulsh Glacier, Yukon: meltwater effects, densification, and the development of a perennial firn aquifer. <i>Cryosphere</i> , 2021, 15, 2021-2040.	3.9	6
61	Ice Masses of the Eastern Canadian Arctic Archipelago. <i>World Geomorphological Landscapes</i> , 2020, , 297-314.	0.3	5
62	Ice Island Drift Mechanisms in the Canadian High Arctic. <i>Springer Polar Sciences</i> , 2017, , 287-316.	0.1	5
63	Lateglacial and Holocene sedimentary dynamics in northwestern Baffin Bay as recorded in sediment cores from Cape Norton Shaw Inlet (Nunavut, Canada). <i>Boreas</i> , 0, , .	2.4	5
64	DEM extraction of the basal topography of the Canadian archipelago ICE caps via 2D automated layer-tracker. , 2017, , .		3
65	Iceberg production and characteristics around the Prince of Wales Icefield, Ellesmere Island, 1997-2015. <i>Arctic, Antarctic, and Alpine Research</i> , 2019, 51, 412-427.	1.1	3
66	Glacier changes over the past 144 years at Alexandra Fiord, Ellesmere Island, Canada. <i>Journal of Glaciology</i> , 2021, 67, 511-522.	2.2	3
67	Application of an improved surface energy balance model to two large valley glaciers in the St. Elias Mountains, Yukon. <i>Journal of Glaciology</i> , 2021, 67, 297-312.	2.2	3
68	Recent climate-related terrestrial biodiversity research in Canada's Arctic national parks: review, summary, and management implications. <i>Biodiversity</i> , 2012, 13, 157-173.	1.1	2
69	Revised Estimates of Recent Mass Loss Rates for Penny Ice Cap, Baffin Island, Based on 2005â€“2014 Elevation Changes Modified for Firn Densification. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005440.	2.8	1
70	Seasonal and Multiyear Flow Variability on the Prince of Wales Icefield, Ellesmere Island: 2009â€“2019. <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, .	2.8	1
71	Anomalous surface elevation, velocity and area changes of Split Lake Glacier, western Prince of Wales Icefield, Canadian High Arctic. <i>Arctic Science</i> , 0, , .	2.3	1
72	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€“. <i>Canadian Journal of Earth Sciences</i> , 2017, 54, 112-112.	1.3	0

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73	Enigmatic surface rolls of the Ellesmere Ice Shelf. <i>Journal of Glaciology</i> , 0, , 1-12.	2.2	0