

# Brian Menounos

## List of Publications by Year in descending order

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Version: 2024-02-01

90  
papers

4,565  
citations

126708

33  
h-index

110170

64  
g-index

102  
all docs

102  
docs citations

102  
times ranked

3783  
citing authors

#	ARTICLE	IF	CITATIONS
1	Accelerated global glacier mass loss in the early twenty-first century. <i>Nature</i> , 2021, 592, 726-731.	13.7	585
2	Landsat-based inventory of glaciers in western Canada, 1985–2005. <i>Remote Sensing of Environment</i> , 2010, 114, 127-137.	4.6	455
3	Contribution of Alaskan glaciers to sea-level rise derived from satellite imagery. <i>Nature Geoscience</i> , 2010, 3, 92-95.	5.4	302
4	Glacier change in western North America: influences on hydrology, geomorphic hazards and water quality. <i>Hydrological Processes</i> , 2009, 23, 42-61.	1.1	278
5	Projected deglaciation of western Canada in the twenty-first century. <i>Nature Geoscience</i> , 2015, 8, 372-377.	5.4	184
6	Recent volume loss of British Columbian glaciers, Canada. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	143
7	Latest Pleistocene and Holocene glacier fluctuations in western Canada. <i>Quaternary Science Reviews</i> , 2009, 28, 2049-2074.	1.4	142
8	Detection of runoff timing changes in pluvial, nival, and glacial rivers of western Canada. <i>Water Resources Research</i> , 2009, 45, .	1.7	117
9	Quantifying the contribution of glacier runoff to streamflow in the upper Columbia River Basin, Canada. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 849-860.	1.9	117
10	Glacier Water Resources on the Eastern Slopes of the Canadian Rocky Mountains. <i>Canadian Water Resources Journal</i> , 2011, 36, 109-134.	0.5	114
11	Holocene and latest Pleistocene alpine glacier fluctuations: a global perspective. <i>Quaternary Science Reviews</i> , 2009, 28, 2021-2033.	1.4	97
12	Retreat of the Western Cordilleran Ice Sheet Margin During the Last Deglaciation. <i>Geophysical Research Letters</i> , 2018, 45, 9710-9720.	1.5	81
13	Cordilleran Ice Sheet mass loss preceded climate reversals near the Pleistocene Termination. <i>Science</i> , 2017, 358, 781-784.	6.0	74
14	Evidence for Cirque Glaciation in the Colorado Front Range during the Younger Dryas Chronozone. <i>Quaternary Research</i> , 1997, 48, 38-47.	1.0	71
15	Ice Volume and Subglacial Topography for Western Canadian Glaciers from Mass Balance Fields, Thinning Rates, and a Bed Stress Model. <i>Journal of Climate</i> , 2013, 26, 4282-4303.	1.2	70
16	Heterogeneous Changes in Western North American Glaciers Linked to Decadal Variability in Zonal Wind Strength. <i>Geophysical Research Letters</i> , 2019, 46, 200-209.	1.5	70
17	Future changes in autumn atmospheric river events in British Columbia, Canada, as projected by CMIP5 global climate models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 9279-9302.	1.2	64
18	Area change of glaciers in the Canadian Rocky Mountains, 1919 to 2006. <i>Cryosphere</i> , 2012, 6, 1541-1552.	1.5	56

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19	Latest Pleistocene and Holocene glacier fluctuations in southernmost Tierra del Fuego, Argentina. <i>Quaternary Science Reviews</i> , 2013, 77, 70-79.	1.4	53
20	The water content of lake sediments and its relationship to other physical parameters: an alpine case study. <i>Holocene</i> , 1997, 7, 207-212.	0.9	50
21	Multi-proxy record of Holocene glacial history of the Spearhead and Fitzsimmons ranges, southern Coast Mountains, British Columbia. <i>Quaternary Science Reviews</i> , 2007, 26, 479-493.	1.4	50
22	An inventory and morphometric analysis of British Columbia glaciers, Canada. <i>Journal of Glaciology</i> , 2008, 54, 551-560.	1.1	48
23	Nomenclature and resolution in Holocene glacial chronologies. <i>Quaternary Science Reviews</i> , 2009, 28, 2231-2238.	1.4	48
24	Interdecadal patterns of total sediment yield from a montane catchment, southern Coast Mountains, British Columbia, Canada. <i>Geomorphology</i> , 2010, 118, 207-212.	1.1	47
25	Early Holocene glacier advance, southern Coast Mountains, British Columbia, Canada. <i>Quaternary Science Reviews</i> , 2004, 23, 1543-1550.	1.4	46
26	Annual push moraines as climate proxy. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	46
27	An approach to derive regional snow lines and glacier mass change from MODIS imagery, western North America. <i>Cryosphere</i> , 2013, 7, 667-680.	1.5	46
28	Western Canadian glaciers advance in concert with climate change circa 4.2 ka. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	44
29	Glacier change of the Columbia Icefield, Canadian Rocky Mountains, 1919â€“2009. <i>Journal of Glaciology</i> , 2013, 59, 671-686.	1.1	43
30	Alpine lake sediment records of the impact of glaciation and climate change on the biogeochemical cycling of soil nutrients. <i>Quaternary Research</i> , 2006, 66, 158-166.	1.0	38
31	Reconstructing hydro-climatic events and glacier fluctuations over the past millennium from annually laminated sediments of Cheakamus Lake, southern Coast Mountains, British Columbia, Canada. <i>Quaternary Science Reviews</i> , 2008, 27, 701-713.	1.4	38
32	Advances in Holocene mountain geomorphology inspired by sediment budget methodology. <i>Geomorphology</i> , 2003, 55, 305-316.	1.1	37
33	Hydroâ€“meteorological drivers and sources of suspended sediment flux in the proâ€“glacial zone of the retreating Castle Creek Glacier, Cariboo Mountains, British Columbia, Canada. <i>Earth Surface Processes and Landforms</i> , 2015, 40, 1542-1559.	1.2	34
34	Multi-year evaluation of airborne geodetic surveys to estimate seasonal mass balance, Columbia and Rocky Mountains, Canada. <i>Cryosphere</i> , 2019, 13, 1709-1727.	1.5	34
35	Environmental reconstruction from a varve network in the southern Coast Mountains, British Columbia, Canada. <i>Holocene</i> , 2005, 15, 1163-1171.	0.9	33
36	Extreme sediment delivery events recorded in the contemporary sediment record of a montane lake, southern Coast Mountains, British Columbia. <i>Canadian Journal of Earth Sciences</i> , 2006, 43, 1777-1790.	0.6	33

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37	Surface Energy Balance Closure and Turbulent Flux Parameterization on a Mid-Latitude Mountain Glacier, Purcell Mountains, Canada. <i>Frontiers in Earth Science</i> , 2017, 5, .	0.8	33
38	Latest Pleistocene and Holocene glacier fluctuations on Mount Baker, Washington. <i>Quaternary Science Reviews</i> , 2012, 49, 33-51.	1.4	32
39	Observations on the May 2019 Joffre Peak landslides, British Columbia. <i>Landslides</i> , 2020, 17, 913-930.	2.7	32
40	A multi-season investigation of glacier surface roughness lengths through in situ and remote observation. <i>Cryosphere</i> , 2019, 13, 1051-1071.	1.5	31
41	Multi-scale snowdrift-permitting modelling of mountain snowpack. <i>Cryosphere</i> , 2021, 15, 743-769.	1.5	29
42	Glacier change in Garibaldi Provincial Park, southern Coast Mountains, British Columbia, since the Little Ice Age. <i>Global and Planetary Change</i> , 2009, 66, 161-178.	1.6	28
43	An evaluation of mass-balance methods applied to Castle creek Glacier, British Columbia, Canada. <i>Journal of Glaciology</i> , 2014, 60, 262-276.	1.1	28
44	Advance of alpine glaciers during final retreat of the Cordilleran ice sheet in the Finlay River area, northern British Columbia, Canada. <i>Quaternary Research</i> , 2008, 69, 188-200.	1.0	25
45	Evaluation of different methods to model near-surface turbulent fluxes for a mountain glacier in the Cariboo Mountains, BC, Canada. <i>Cryosphere</i> , 2017, 11, 2897-2918.	1.5	24
46	Anomalous early 20th century sedimentation in proglacial Green Lake, British Columbia, Canada. <i>Canadian Journal of Earth Sciences</i> , 2006, 43, 671-678.	0.6	23
47	Did rock avalanche deposits modulate the late Holocene advance of Tiedemann Glacier, southern Coast Mountains, British Columbia, Canada?. <i>Earth and Planetary Science Letters</i> , 2013, 384, 154-164.	1.8	23
48	Detecting the Effects of Sustained Glacier Wastage on Streamflow in Variably Glacierized Catchments. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	23
49	Climate-Mediated Changes to Linked Terrestrial and Marine Ecosystems across the Northeast Pacific Coastal Temperate Rainforest Margin. <i>BioScience</i> , 2021, 71, 581-595.	2.2	23
50	The 28 November 2020 Landslide, Tsunami, and Outburst Flood “A Hazard Cascade Associated With Rapid Deglaciation at Elliot Creek, British Columbia, Canada. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	23
51	Pliocene and Early Pleistocene glaciation and landscape evolution on the Patagonian Steppe, Santa Cruz province, Argentina. <i>Quaternary Science Reviews</i> , 2020, 227, 105992.	1.4	22
52	Ice-core net snow accumulation and seasonal snow chemistry at a temperate-glacier site: Mount Waddington, southwest British Columbia, Canada. <i>Journal of Glaciology</i> , 2012, 58, 1165-1175.	1.1	21
53	Late-Holocene and Little Ice Age palaeoenvironmental change inferred from pollen analysis, Isla de los Estados, Argentina. <i>Quaternary International</i> , 2017, 442, 26-34.	0.7	20
54	Observations of riverbed scour under a developing hanging ice dam. <i>Canadian Journal of Civil Engineering</i> , 2006, 33, 214-218.	0.7	19

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55	Glacier change in the Cariboo Mountains, British Columbia, Canada (1952–2005). <i>Cryosphere</i> , 2015, 9, 65-80.	1.5	19
56	Late Holocene glacier expansion in the Cariboo and northern Rocky Mountains, British Columbia, Canada. <i>Quaternary Science Reviews</i> , 2012, 51, 71-80.	1.4	18
57	Late Pleistocene and Holocene palaeoenvironmental changes in central Tierra del Fuego (~54°S) inferred from pollen analysis. <i>Vegetation History and Archaeobotany</i> , 2016, 25, 117-130.	1.0	18
58	Postglacial environments in the southern coast of Lago Fagnano, central Tierra del Fuego, Argentina, based on pollen and fungal microfossils analyses. <i>Review of Palaeobotany and Palynology</i> , 2017, 238, 43-54.	0.8	16
59	Accelerated change in the glaciated environments of western Canada revealed through trend analysis of optical satellite imagery. <i>Remote Sensing of Environment</i> , 2022, 270, 112862.	4.6	15
60	Nested temporal suspended sediment yields, Green Lake Basin, British Columbia, Canada. <i>Geomorphology</i> , 2006, 79, 114-129.	1.1	14
61	Late Holocene paleohydrology of Kluane Lake, Yukon Territory, Canada. <i>Journal of Paleolimnology</i> , 2010, 44, 873-885.	0.8	14
62	Sensitive clay landslide detection and characterization in and around Lakelse Lake, British Columbia, Canada. <i>Sedimentary Geology</i> , 2018, 364, 217-227.	1.0	14
63	Bias-corrected estimates of glacier thickness in the Columbia River Basin, Canada. <i>Journal of Glaciology</i> , 2020, 66, 1051-1063.	1.1	14
64	Geochemical reconstruction of late Holocene drainage and mixing in Kluane Lake, Yukon Territory. <i>Journal of Paleolimnology</i> , 2008, 40, 489-505.	0.8	13
65	Comparison of modeled and geodetically-derived glacier mass balance for Tiedemann and Klinaklini glaciers, southern Coast Mountains, British Columbia, Canada. <i>Global and Planetary Change</i> , 2012, 82-83, 74-85.	1.6	13
66	Holocene tephra in lake cores from northern British Columbia, Canada. <i>Canadian Journal of Earth Sciences</i> , 2008, 45, 935-947.	0.6	10
67	Automatic mapping and geomorphometry extraction technique for crevasses in geodetic mass-balance calculations at Haig Glacier, Canadian Rockies. <i>Journal of Glaciology</i> , 2019, 65, 971-982.	1.1	10
68	Exploring new methods to analyse spatial impact distributions on debris-flow fans using data from southwestern British Columbia. <i>Earth Surface Processes and Landforms</i> , 2021, 46, 2395-2413.	1.2	10
69	The influence of forest fire aerosol and air temperature on glacier albedo, western North America. <i>Remote Sensing of Environment</i> , 2021, 267, 112732.	4.6	10
70	Timing and cause of water level fluctuations in Kluane Lake, Yukon Territory, over the past 5000 years. <i>Quaternary Research</i> , 2008, 70, 213-227.	1.0	9
71	An 825-year long varve record from Lillooet Lake, British Columbia, and its potential as a flood proxy. <i>Quaternary Science Reviews</i> , 2015, 126, 158-174.	1.4	9
72	Evaluation of SfM for surface characterization of a snow-covered glacier through comparison with aerial lidar. <i>Journal of Unmanned Vehicle Systems</i> , 2020, 8, 119-139.	0.6	9

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73	Determining annual cryosphere storage contributions to streamflow using historical hydrometric records. <i>Hydrological Processes</i> , 2017, 31, 1590-1601.	1.1	8
74	A huge flood in the Fraser River valley, British Columbia, near the Pleistocene Termination. <i>Geomorphology</i> , 2021, 374, 107473.	1.1	8
75	Hydrometeorological, glaciological and geospatial research data from the Peyto Glacier Research Basin in the Canadian Rockies. <i>Earth System Science Data</i> , 2021, 13, 2875-2894.	3.7	8
76	Glacier recession alters stream water quality characteristics facilitating bloom formation in the benthic diatom <i>Didymosphenia geminata</i> . <i>Science of the Total Environment</i> , 2021, 764, 142856.	3.9	6
77	The role of meteorological forcing and snow model complexity in winter glacier mass balance estimation, Columbia River basin, Canada. <i>Hydrological Processes</i> , 2020, 34, 5085-5103.	1.1	5
78	Cordilleran Ice Sheet Stability During the Last Deglaciation. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	5
79	Late Holocene fluctuations of Stoppani Glacier, southernmost Patagonia. <i>Quaternary Research</i> , 2020, 95, 56-64.	1.0	4
80	Structure from motion used to revive archived aerial photographs for geomorphological analysis: an example from Mount Meager volcano, British Columbia, Canada. <i>Canadian Journal of Earth Sciences</i> , 2021, 58, 1253-1267.	0.6	4
81	Future Snow Changes over the Columbia Mountains, Canada, using a Distributed Snow Model. <i>Climatic Change</i> , 2022, 172, 1.	1.7	4
82	A multi-century estimate of suspended sediment yield from Lillooet Lake, southern Coast Mountains, Canada. <i>Canadian Journal of Earth Sciences</i> , 2018, 55, 18-32.	0.6	3
83	Surface Mass-Balance Gradients From Elevation and Ice Flux Data in the Columbia Basin, Canada. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	3
84	Slowstands, stillstands and transgressions: Paleoshorelines and archaeology on Quadra Island, BC, Canada. <i>Quaternary Science Reviews</i> , 2021, 270, 107161.	1.4	3
85	Kinematic Analysis of the 2020 Elliot Creek Landslide, British Columbia, Using Remote Sensing Data. <i>Frontiers in Earth Science</i> , 0, 10, .	0.8	3
86	Reply to comments by Kovanen and Begt on "Early Holocene glacier advance, southern Coast Mountains, British Columbia, Canada". <i>Quaternary Science Reviews</i> , 2005, 24, 1527-1528.	1.4	2
87	Glaciers of the Olympic Mountains, Washington "The Past and Future 100 Years. <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, .	1.0	2
88	Lillooet-Harrison Drainage Basin: Variable Landscapes Within the Coast Mountains. <i>World Geomorphological Landscapes</i> , 2017, , 303-320.	0.1	1
89	Tandem dating methods constrain late Holocene glacier advances, southern Coast Mountains, British Columbia. <i>Quaternary Science Reviews</i> , 2021, 274, 107282.	1.4	1
90	Reconciling the apparent absence of a Last Glacial Maximum alpine glacial advance, Yukon Territory, Canada, through cosmogenic beryllium-10 and carbon-14 measurements. <i>Geochronology</i> , 2022, 4, 311-322.	1.0	1