Brian Menounos

List of Publications by Year
in descending order

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90 papers	4,565 citations	126907 33 h-index	110387 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. Nature, 2021, 592, 726-731.	27.8	585
2	Landsat-based inventory of glaciers in western Canada, 1985â€“2005. Remote Sensing of Environment, 2010, 114, 127-137.	11.0	455
3	Contribution of Alaskan glaciers to sea-level rise derived from satellite imagery. Nature Geoscience, 2010, 3, 92-95.	12.9	302
4	Glacier change in western North America: influences on hydrology, geomorphic hazards and water quality. Hydrological Processes, 2009, 23, 42-61.	2.6	278
5	Projected deglaciation of western Canada in the twenty-first century. Nature Geoscience, 2015, 8, 372-377.	12.9	184
6	Recent volume loss of British Columbian glaciers, Canada. Geophysical Research Letters, 2007, 34, .	4.0	143
7	Latest Pleistocene and Holocene glacier fluctuations in western Canada. Quaternary Science Reviews, 2009, 28, 2049-2074.	3.0	142
8	Detection of runoff timing changes in pluvial, nival, and glacial rivers of western Canada. Water Resources Research, 2009, 45, .	4.2	117
9	Quantifying the contribution of glacier runoff to streamflow in the upper Columbia River Basin, Canada. Hydrology and Earth System Sciences, 2012, 16, 849-860.	4.9	117
10	Glacier Water Resources on the Eastern Slopes of the Canadian Rocky Mountains. Canadian Water Resources Journal, 2011, 36, 109-134.	1.2	114
11	Holocene and latest Pleistocene alpine glacier fluctuations: a global perspective. Quaternary Science Reviews, 2009, 28, 2021-2033.	3.0	97
12	Retreat of the Western Cordilleran Ice Sheet Margin During the Last Deglaciation. Geophysical Research Letters, 2018, 45, 9710-9720.	4.0	81
13	Cordilleran Ice Sheet mass loss preceded climate reversals near the Pleistocene Termination. Science, 2017, 358, 781-784.	12.6	74
14	Evidence for Cirque Glaciation in the Colorado Front Range during the Younger Dryas Chronozone. Quaternary Research, 1997, 48, 38-47.	1.7	71
15	Ice Volume and Subglacial Topography for Western Canadian Glaciers from Mass Balance Fields, Thinning Rates, and a Bed Stress Model. Journal of Climate, 2013, 26, 4282-4303.	3.2	70
16	Heterogeneous Changes in Western North American Glaciers Linked to Decadal Variability in Zonal Wind Strength. Geophysical Research Letters, 2019, 46, 200-209.	4.0	70
17	Future changes in autumn atmospheric river events in British Columbia, Canada, as projected by CMIP5 global climate models. Journal of Geophysical Research D: Atmospheres, 2015, 120, 9279-9302.	3.3	64
18	Area change of glaciers in the Canadian Rocky Mountains, 1919 to 2006. Cryosphere, 2012, 6, 1541-1552.	3.9	56

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19	Latest Pleistocene and Holocene glacier fluctuations in southernmost Tierra del Fuego, Argentina. Quaternary Science Reviews, 2013, 77, 70-79.	3.0	53
20	The water content of lake sediments and its relationship to other physical parameters: an alpine case study. Holocene, 1997, 7, 207-212.	1.7	50
21	Multi-proxy record of Holocene glacial history of the Spearhead and Fitzsimmons ranges, southern Coast Mountains, British Columbia. Quaternary Science Reviews, 2007, 26, 479-493.	3.0	50
22	An inventory and morphometric analysis of British Columbia glaciers, Canada. Journal of Glaciology, 2008, 54, 551-560.	2.2	48
23	Nomenclature and resolution in Holocene glacial chronologies. Quaternary Science Reviews, 2009, 28, 2231-2238.	3.0	48
24	Interdecadal patterns of total sediment yield from a montane catchment, southern Coast Mountains, British Columbia, Canada. Geomorphology, 2010, 118, 207-212.	2.6	47
25	Early Holocene glacier advance, southern Coast Mountains, British Columbia, Canada. Quaternary Science Reviews, 2004, 23, 1543-1550.	3.0	46
26	Annual push moraines as climate proxy. Geophysical Research Letters, 2009, 36, .	4.0	46
27	An approach to derive regional snow lines and glacier mass change from MODIS imagery, western North America. Cryosphere, 2013, 7, 667-680.	3.9	46
28	Western Canadian glaciers advance in concert with climate change circa 4.2 ka. Geophysical Research Letters, 2008, 35, .	4.0	44
29	Glacier change of the Columbia Icefield, Canadian Rocky Mountains, 1919â€“2009. Journal of Glaciology, 2013, 59, 671-686.	2.2	43
30	Alpine lake sediment records of the impact of glaciation and climate change on the biogeochemical cycling of soil nutrients. Quaternary Research, 2006, 66, 158-166.	1.7	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. Quaternary Science Reviews, 2008, 27, 701-713.	3.0	38
32	Advances in Holocene mountain geomorphology inspired by sediment budget methodology. Geomorphology, 2003, 55, 305-316.	2.6	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. Earth Surface Processes and Landforms, 2015, 40, 1542-1559.	2.5	34
34	Multi-year evaluation of airborne geodetic surveys to estimate seasonal mass balance, Columbia and Rocky Mountains, Canada. Cryosphere, 2019, 13, 1709-1727.	3.9	34
35	Environmental reconstruction from a varve network in the southern Coast Mountains, British Columbia, Canada. Holocene, 2005, 15, 1163-1171.	1.7	33
36	Extreme sediment delivery events recorded in the contemporary sediment record of a montane lake, southern Coast Mountains, British Columbia. Canadian Journal of Earth Sciences, 2006, 43, 1777-1790.	1.3	33

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37	Surface Energy Balance Closure and Turbulent Flux Parameterization on a Mid-Latitude Mountain Glacier, Purcell Mountains, Canada. Frontiers in Earth Science, 2017, 5, .	1.8	33
38	Latest Pleistocene and Holocene glacier fluctuations on Mount Baker, Washington. Quaternary Science Reviews, 2012, 49, 33-51.	3.0	32
39	Observations on the May 2019 Joffre Peak landslides, British Columbia. Landslides, 2020, 17, 913-930.	5.4	32
40	A multi-season investigation of glacier surface roughness lengths through in situ and remote observation. Cryosphere, 2019, 13, 1051-1071.	3.9	31
41	Multi-scale snowdrift-permitting modelling of mountain snowpack. Cryosphere, 2021, 15, 743-769.	3.9	29
42	Glacier change in Garibaldi Provincial Park, southern Coast Mountains, British Columbia, since the Little Ice Age. Global and Planetary Change, 2009, 66, 161-178.	3.5	28
43	An evaluation of mass-balance methods applied to Castle creek Glacier, British Columbia, Canada. Journal of Glaciology, 2014, 60, 262-276.	2.2	28
44	Advance of alpine glaciers during final retreat of the Cordilleran ice sheet in the Finlay River area, northern British Columbia, Canada. Quaternary Research, 2008, 69, 188-200.	1.7	25
45	Evaluation of different methods to model near-surface turbulent fluxes for a mountain glacier in the Cariboo Mountains, BC, Canada. Cryosphere, 2017, 11, 2897-2918.	3.9	24
46	Anomalous early 20th century sedimentation in proglacial Green Lake, British Columbia, Canada. Canadian Journal of Earth Sciences, 2006, 43, 671-678.	1.3	23
47	Did rock avalanche deposits modulate the late Holocene advance of Tiedemann Glacier, southern Coast Mountains, British Columbia, Canada?. Earth and Planetary Science Letters, 2013, 384, 154-164.	4.4	23
48	Detecting the Effects of Sustained Glacier Wastage on Streamflow in Variably Glacierized Catchments. Frontiers in Earth Science, 2020, 8, .	1.8	23
49	Climate-Mediated Changes to Linked Terrestrial and Marine Ecosystems across the Northeast Pacific Coastal Temperate Rainforest Margin. BioScience, 2021, 71, 581-595.	4.9	23
50	The 28 November 2020 Landslide, Tsunami, and Outburst Flood â€“ A Hazard Cascade Associated With Rapid Deglaciation at Elliot Creek, British Columbia, Canada. Geophysical Research Letters, 2022, 49, .	4.0	23
51	Pliocene and Early Pleistocene glaciation and landscape evolution on the Patagonian Steppe, Santa Cruz province, Argentina. Quaternary Science Reviews, 2020, 227, 105992.	3.0	22
52	Ice-core net snow accumulation and seasonal snow chemistry at a temperate-glacier site: Mount Waddington, southwest British Columbia, Canada. Journal of Glaciology, 2012, 58, 1165-1175.	2.2	21
53	Late-Holocene and Little Ice Age palaeoenvironmental change inferred from pollen analysis, Isla de los Estados, Argentina. Quaternary International, 2017, 442, 26-34.	1.5	20
54	Observations of riverbed scour under a developing hanging ice dam. Canadian Journal of Civil Engineering, 2006, 33, 214-218.	1.3	19

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55	Glacier change in the Cariboo Mountains, British Columbia, Canada (1952â€“2005). Cryosphere, 2015, 9, 65-80.	3.9	19
56	Late Holocene glacier expansion in the Cariboo and northern Rocky Mountains, British Columbia, Canada. Quaternary Science Reviews, 2012, 51, 71-80.	3.0	18
57	Late Pleistocene and Holocene palaeoenvironmental changes in central Tierra del Fuego (~54Â°S) inferred from pollen analysis. Vegetation History and Archaeobotany, 2016, 25, 117-130.	2.1	18
58	Postglacial environments in the southern coast of Lago Fagnano, central Tierra del Fuego, Argentina, based on pollen and fungal microfossils analyses. Review of Palaeobotany and Palynology, 2017, 238, 43-54.	1.5	16
59	Accelerated change in the glaciated environments of western Canada revealed through trend analysis of optical satellite imagery. Remote Sensing of Environment, 2022, 270, 112862.	11.0	15
60	Nested temporal suspended sediment yields, Green Lake Basin, British Columbia, Canada. Geomorphology, 2006, 79, 114-129.	2.6	14
61	Late Holocene paleohydrology of Kluane Lake, Yukon Territory, Canada. Journal of Paleolimnology, 2010, 44, 873-885.	1.6	14
62	Sensitive clay landslide detection and characterization in and around Lakelse Lake, British Columbia, Canada. Sedimentary Geology, 2018, 364, 217-227.	2.1	14
63	Bias-corrected estimates of glacier thickness in the Columbia River Basin, Canada. Journal of Glaciology, 2020, 66, 1051-1063.	2.2	14
64	Geochemical reconstruction of late Holocene drainage and mixing in Kluane Lake, Yukon Territory. Journal of Paleolimnology, 2008, 40, 489-505.	1.6	13
65	Comparison of modeled and geodetically-derived glacier mass balance for Tiedemann and Klinaklini glaciers, southern Coast Mountains, British Columbia, Canada. Global and Planetary Change, 2012, 82-83, 74-85.	3.5	13
66	Holocene tephras in lake cores from northern British Columbia, Canada. Canadian Journal of Earth Sciences, 2008, 45, 935-947.	1.3	10
67	Automatic mapping and geomorphometry extraction technique for crevasses in geodetic mass-balance calculations at Haig Glacier, Canadian Rockies. Journal of Glaciology, 2019, 65, 971-982.	2.2	10
68	Exploring new methods to analyse spatial impact distributions on debrisâ€flow fans using data from southâ€western British Columbia. Earth Surface Processes and Landforms, 2021, 46, 2395-2413.	2.5	10
69	The influence of forest fire aerosol and air temperature on glacier albedo, western North America. Remote Sensing of Environment, 2021, 267, 112732.	11.0	10
70	Timing and cause of water level fluctuations in Kluane Lake, Yukon Territory, over the past 5000 years. Quaternary Research, 2008, 70, 213-227.	1.7	9
71	An 825-year long varve record from Lillooet Lake, British Columbia, and its potential as a flood proxy. Quaternary Science Reviews, 2015, 126, 158-174.	3.0	9
72	Evaluation of SfM for surface characterization of a snow-covered glacier through comparison with aerial lidar. Journal of Unmanned Vehicle Systems, 2020, 8, 119-139.	1.2	9

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73	Determining annual cryosphere storage contributions to streamflow using historical hydrometric records. Hydrological Processes, 2017, 31, 1590-1601.	2.6	8
74	A huge flood in the Fraser River valley, British Columbia, near the Pleistocene Termination. Geomorphology, 2021, 374, 107473.	2.6	8
75	Hydrometeorological, glaciological and geospatial research data from the Peyto Glacier Research Basin in the Canadian Rockies. Earth System Science Data, 2021, 13, 2875-2894.	9.9	8
76	Glacier recession alters stream water quality characteristics facilitating bloom formation in the benthic diatom Didymosphenia geminata. Science of the Total Environment, 2021, 764, 142856.	8.0	6
77	The role of meteorological forcing and snow model complexity in winter glacier mass balance estimation, Columbia River basin, Canada. Hydrological Processes, 2020, 34, 5085-5103.	2.6	5
78	Cordilleran Ice Sheet Stability During the Last Deglaciation. Geophysical Research Letters, 2022, 49, .	4.0	5
79	Late Holocene fluctuations of Stoppani Glacier, southernmost Patagonia. Quaternary Research, 2020, 95, 56-64.	1.7	4
80	Structure from motion used to revive archived aerial photographs for geomorphological analysis: an example from Mount Meager volcano, British Columbia, Canada. Canadian Journal of Earth Sciences, 2021, 58, 1253-1267.	1.3	4
81	Future Snow Changes over the Columbia Mountains, Canada, using a Distributed Snow Model. Climatic Change, 2022, 172, 1.	3.6	4
82	A multi-century estimate of suspended sediment yield from Lillooet Lake, southern Coast Mountains, Canada. Canadian Journal of Earth Sciences, 2018, 55, 18-32.	1.3	3
83	Surface Mass-Balance Gradients From Elevation and Ice Flux Data in the Columbia Basin, Canada. Frontiers in Earth Science, 2021, 9, .	1.8	3
84	Slowstands, stillstands and transgressions: Paleoshorelines and archaeology on Quadra Island, BC, Canada. Quaternary Science Reviews, 2021, 270, 107161.	3.0	3
85	Kinematic Analysis of the 2020 Elliot Creek Landslide, British Columbia, Using Remote Sensing Data. Frontiers in Earth Science, 0, 10, .	1.8	3
86	Reply to comments by Kovanen and BegÃ©t on â€œEarly Holocene glacier advance, southern Coast Mountains, British Columbia, Canadaâ€• Quaternary Science Reviews, 2005, 24, 1527-1528.	3.0	2
87	Glaciers of the Olympic Mountains, Washingtonâ€”The Past and Future 100ÂYears. Journal of Geophysical Research F: Earth Surface, 2022, 127, .	2.8	2
88	Lillooet-Harrison Drainage Basin: Variable Landscapes Within the Coast Mountains. World Geomorphological Landscapes, 2017, , 303-320.	0.3	1
89	Tandem dating methods constrain late Holocene glacier advances, southern Coast Mountains, British Columbia. Quaternary Science Reviews, 2021, 274, 107282.	3.0	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. Geochronology, 2022, 4, 311-322.	2.5	1