

Shawn J Marshall

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

2,188
citations

279701

23
h-index

233338

45
g-index

88
all docs

88
docs citations

88
times ranked

2903
citing authors

#	ARTICLE	IF	CITATIONS
1	Freshwater Forcing of Abrupt Climate Change During the Last Glaciation. <i>Science</i> , 2001, 293, 283-287.	6.0	539
2	Ongoing climate change following a complete cessation of carbon dioxide emissions. <i>Nature Geoscience</i> , 2011, 4, 83-87.	5.4	169
3	Near-Surface Temperature Lapse Rates over Arctic Glaciers and Their Implications for Temperature Downscaling. <i>Journal of Climate</i> , 2009, 22, 4281-4298.	1.2	138
4	Near-surface-temperature lapse rates on the Prince of Wales Icefield, Ellesmere Island, Canada: implications for regional downscaling of temperature. <i>International Journal of Climatology</i> , 2007, 27, 385-398.	1.5	131
5	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
6	Sensitivity of Vatnajökull ice cap hydrology and dynamics to climate warming over the next 2 centuries. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	66
7	Ice sheet action versus reaction: Distinguishing between Heinrich events and Dansgaard-Oeschger cycles in the North Atlantic. <i>Paleoceanography</i> , 2006, 21, n/a-n/a.	3.0	59
8	Simulation of Vatnajökull ice cap dynamics. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	49
9	Altitudinal Gradients of Stable Isotopes in Lee-Slope Precipitation in the Canadian Rocky Mountains. <i>Arctic, Antarctic, and Alpine Research</i> , 2007, 39, 455-467.	0.4	43
10	Melt season duration on Canadian Arctic ice caps, 2000-2004. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	41
11	Glacier volume-area relation for high-order mechanics and transient glacier states. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	38
12	Estimation of glacial melt contributions to the Bow River, Alberta, Canada, using a radiation-temperature melt model. <i>Annals of Glaciology</i> , 2014, 55, 138-152.	2.8	38
13	The firn meltwater Retention Model Intercomparison Project (RetMIP): evaluation of nine firn models at four weather station sites on the Greenland ice sheet. <i>Cryosphere</i> , 2020, 14, 3785-3810.	1.5	38
14	Glacier Distributions and Climate in the Canadian Rockies. <i>Arctic, Antarctic, and Alpine Research</i> , 2004, 36, 272-279.	0.4	35
15	Variability and trends in anticyclonic circulation over the Greenland ice sheet, 1948-2013. <i>Geophysical Research Letters</i> , 2014, 41, 2842-2850.	1.5	34
16	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
17	Influence of high-order mechanics on simulation of glacier response to climate change: insights from Haig Glacier, Canadian Rocky Mountains. <i>Cryosphere</i> , 2013, 7, 1527-1541.	1.5	31
18	Modelling the Northward Expansion of <i>Culicoides sonorensis</i> (Diptera: Ceratopogonidae) under Future Climate Scenarios. <i>PLoS ONE</i> , 2015, 10, e0130294.	1.1	31

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19	Meltwater run-off from Haig Glacier, Canadian Rocky Mountains, 2002–2013. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 5181-5200.	1.9	30
20	Surface energy balance sensitivity to meteorological variability on Haig Glacier, Canadian Rocky Mountains. <i>Cryosphere</i> , 2016, 10, 2799-2819.	1.5	29
21	Advances in phenology are conserved across scale in present and future climates. <i>Nature Climate Change</i> , 2019, 9, 419-425.	8.1	29
22	Glacial termination: sensitivity to orbital and CO ₂ forcing in a coupled climate system model. <i>Climate Dynamics</i> , 2001, 17, 571-588.	1.7	28
23	Atmospheric flow indices, regional climate, and Glacier mass balance in the Canadian Rocky mountains. <i>International Journal of Climatology</i> , 2007, 27, 233-247.	1.5	26
24	Toward a new generation of ice sheet models. <i>Eos</i> , 2007, 88, 578-579.	0.1	25
25	Diurnal Cycles of Meltwater Percolation, Refreezing, and Drainage in the Supraglacial Snowpack of Haig Glacier, Canadian Rocky Mountains. <i>Frontiers in Earth Science</i> , 2017, 5, .	0.8	24
26	A Lagrangian approach to modelling stable isotopes in precipitation over mountainous terrain. <i>Hydrological Processes</i> , 2011, 25, 2481-2491.	1.1	23
27	Parameterization of lateral drag in flowline models of glacier dynamics. <i>Journal of Glaciology</i> , 2012, 58, 1119-1132.	1.1	23
28	Neglecting ice–atmosphere interactions underestimates ice sheet melt in millennial–scale deglaciation simulations. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	21
29	Glacier Meltwater Contributions and Glaciometeorological Regime of the Illecillewaet River Basin, British Columbia, Canada. <i>Atmosphere - Ocean</i> , 2013, 51, 416-435.	0.6	20
30	Summary and synthesis of Changing Cold Regions Network (CCRN) research in the interior of western Canada – Part 2: Future change in cryosphere, vegetation, and hydrology. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 1849-1882.	1.9	20
31	Mesoscale Temperature Patterns in the Rocky Mountains and Foothills Region of Southern Alberta. <i>Atmosphere - Ocean</i> , 2011, 49, 189-205.	0.6	18
32	Improvements to shear-deformational models of glacier dynamics through a longitudinal stress factor. <i>Journal of Glaciology</i> , 2011, 57, 1003-1016.	1.1	17
33	The effects of meltwater percolation on the seasonal isotopic signals in an Arctic snowpack. <i>Journal of Glaciology</i> , 2009, 55, 1012-1024.	1.1	16
34	Mass balance of the Prince of Wales Icefield, Ellesmere Island, Nunavut, Canada. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	14
35	Glacier retreat crosses a line. <i>Science</i> , 2014, 345, 872-872.	6.0	14
36	Seasonal and interannual variability of melt-season albedo at Haig Glacier, Canadian Rocky Mountains. <i>Cryosphere</i> , 2020, 14, 3249-3267.	1.5	14

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37	Meltwater Penetration Through Temperate Ice Layers in the Percolation Zone at DYEâ€2, Greenland Ice Sheet. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089211.	1.5	13
38	Temperature and Melt Modeling on the Prince of Wales Ice Field, Canadian High Arctic. <i>Journal of Climate</i> , 2009, 22, 1454-1468.	1.2	13
39	Assessments of downscaled climate data with a highâ€resolution weather station network reveal consistent but predictable bias. <i>International Journal of Climatology</i> , 2019, 39, 3091-3103.	1.5	12
40	Spatial patterns and seasonal variation of snowpack sulphate isotopes of the Prince of Wales Icefield, Ellesmere Island, Canada. <i>Annals of Glaciology</i> , 2006, 43, 390-396.	2.8	11
41	Parameterization of incoming longwave radiation at glacier sites in the Canadian Rocky Mountains. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 12536-12556.	1.2	10
42	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
43	Timeâ€Domain Reflectometry Measurements and Modeling of Firn Meltwater Infiltration at DYEâ€2, Greenland. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2021JF006295.	1.0	10
44	Making Connections for Our Changing Mountains: Future Directions for the Mountain Research Initiative (MRI). <i>Mountain Research and Development</i> , 2020, 40, .	0.4	9
45	Numerical modeling investigations of the subglacial conditions of the southern Laurentide ice sheet. <i>Annals of Glaciology</i> , 2005, 40, 219-224.	2.8	8
46	Modelling Glacier Response to Climate Change. , 0, , 163-173.		8
47	Marine aerosol source regions to Prince of Wales Icefield, Ellesmere Island, and influence from the tropical Pacific, 1979â€2001. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 9492-9507.	1.2	7
48	Regime Shifts in Glacier and Ice Sheet Response to Climate Change: Examples From the Northern Hemisphere. <i>Frontiers in Climate</i> , 2021, 3, .	1.3	7
49	On Characteristic Timescales of Glacier AX010 in the Nepalese Himalaya. <i>Bulletin of Glaciological Research</i> , 2011, 29, 19-29.	0.5	6
50	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.	1.5	6
51	Interannual Atmospheric Variability Affects Continental Ice Sheet Simulations on Millennial Time Scales. <i>Journal of Climate</i> , 2008, 21, 5976-5992.	1.2	5
52	Isotope thermometry in meltâ€affected ice cores. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	5
53	Daily temperature records from a mesonet in the foothills of the Canadian Rocky Mountains, 2005â€2010. <i>Earth System Science Data</i> , 2018, 10, 595-607.	3.7	5
54	Ice Sheet Surface and Subsurface Melt Water Discrimination Using Multiâ€Frequency Microwave Radiometry. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	5

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55	Challenging the hypothesis of an Arctic Ocean lake during recent glacial episodes. <i>Journal of Quaternary Science</i> , 2022, 37, 559-567.	1.1	5
56	Marine Aerosol Records of Arctic Sea Ice and Polynya Variability From New Ellesmere and Devon Island Firn Cores, Nunavut, Canada. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017205.	1.0	3
57	Engaging Students in Atmospheric Science: A University-High School Collaboration in British Columbia, Canada. <i>Journal of Geoscience Education</i> , 2009, 57, 128-136.	0.8	3
58	Daily measurements of near-surface humidity from a mesonet in the foothills of the Canadian Rocky Mountains, 2005–2010. <i>Earth System Science Data</i> , 2019, 11, 23-34.	3.7	2
59	Development and testing of a subgrid glacier mass balance model for nesting in the Canadian Regional Climate Model. <i>Climate Dynamics</i> , 2019, 53, 1453-1476.	1.7	0