Shawn J Marshall

List of Publications by Year
in descending order

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	Ice Sheet Surface and Subsurface Melt Water Discrimination Using Multiâ€Frequency Microwave Radiometry. Geophysical Research Letters, 2022, 49, .	1.5	5
2	Challenging the hypothesis of an Arctic Ocean lake during recent glacial episodes. Journal of Quaternary Science, 2022, 37, 559-567.	1.1	5
3	Summary and synthesis of Changing Cold Regions Network (CCRN) research in the interior of western Canada â€“ PartÂ2: Future change in cryosphere, vegetation, and hydrology. Hydrology and Earth System Sciences, 2021, 25, 1849-1882.	1.9	20
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.	1.5	6
5	Timeâ€Domain Reflectometry Measurements and Modeling of Firn Meltwater Infiltration at DYEâ€2, Greenland. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2021JF006295.	1.0	10
6	Marine Aerosol Records of Arctic Seaâ€Ice and Polynya Variability From New Ellesmere and Devon Island Firn Cores, Nunavut, Canada. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017205.	1.0	3
7	Regime Shifts in Glacier and Ice Sheet Response to Climate Change: Examples From the Northern Hemisphere. Frontiers in Climate, 2021, 3, .	1.3	7
8	Meltwater Penetration Through Temperate Ice Layers in the Percolation Zone at DYEâ€2, Greenland Ice Sheet. Geophysical Research Letters, 2020, 47, e2020GL089211.	1.5	13
9	Making Connections for Our Changing Mountains: Future Directions for the Mountain Research Initiative (MRI). Mountain Research and Development, 2020, 40, .	0.4	9
10	The firn meltwater Retention Model Intercomparison Project (RetMIP): evaluation of nine firn models at four weather station sites on the Greenland ice sheet. Cryosphere, 2020, 14, 3785-3810.	1.5	38
11	Seasonal and interannual variability of melt-season albedo at Haig Glacier, Canadian Rocky Mountains. Cryosphere, 2020, 14, 3249-3267.	1.5	14
12	Multi-year evaluation of airborne geodetic surveys to estimate seasonal mass balance, Columbia and Rocky Mountains, Canada. Cryosphere, 2019, 13, 1709-1727.	1.5	34
13	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.	1.1	10
14	Advances in phenology are conserved across scale in present and future climates. Nature Climate Change, 2019, 9, 419-425.	8.1	29
15	Development and testing of a subgrid glacier mass balance model for nesting in the Canadian Regional Climate Model. Climate Dynamics, 2019, 53, 1453-1476.	1.7	0
16	Assessments of downscaled climate data with a highâ€resolution weather station network reveal consistent but predictable bias. International Journal of Climatology, 2019, 39, 3091-3103.	1.5	12
17	Daily measurements of near-surface humidity from a mesonet in the foothills of the Canadian Rocky Mountains, 2005â€“2010. Earth System Science Data, 2019, 11, 23-34.	3.7	2
18	Daily temperature records from a mesonet in the foothills of the Canadian Rocky Mountains, 2005â€“2010. Earth System Science Data, 2018, 10, 595-607.	3.7	5

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19	Diurnal Cycles of Meltwater Percolation, Refreezing, and Drainage in the Supraglacial Snowpack of Haig Glacier, Canadian Rocky Mountains. Frontiers in Earth Science, 2017, 5, .	0.8	24
20	Surface energy balance sensitivity to meteorological variability on Haig Glacier, Canadian Rocky Mountains. Cryosphere, 2016, 10, 2799-2819.	1.5	29
21	Marine aerosol source regions to Prince of Wales Icefield, Ellesmere Island, and influence from the tropical Pacific, 1979â€“2001. Journal of Geophysical Research D: Atmospheres, 2016, 121, 9492-9507.	1.2	7
22	Parameterization of incoming longwave radiation at glacier sites in the Canadian Rocky Mountains. Journal of Geophysical Research D: Atmospheres, 2015, 120, 12536-12556.	1.2	10
23	Modelling the Northward Expansion of Culicoides sonorensis (Diptera: Ceratopogonidae) under Future Climate Scenarios. PLoS ONE, 2015, 10, e0130294.	1.1	31
24	Meltwater run-off from Haig Glacier, Canadian Rocky Mountains, 2002â€“2013. Hydrology and Earth System Sciences, 2014, 18, 5181-5200.	1.9	30
25	Estimation of glacial melt contributions to the Bow River, Alberta, Canada, using a radiation-temperature melt model. Annals of Glaciology, 2014, 55, 138-152.	2.8	38
26	Glacier retreat crosses a line. Science, 2014, 345, 872-872.	6.0	14
27	Variability and trends in anticyclonic circulation over the Greenland ice sheet, 1948â€“2013. Geophysical Research Letters, 2014, 41, 2842-2850.	1.5	34
28	Influence of high-order mechanics on simulation of glacier response to climate change: insights from Haig Glacier, Canadian Rocky Mountains. Cryosphere, 2013, 7, 1527-1541.	1.5	31
29	Glacier Meltwater Contributions and Glaciometeorological Regime of the Illecillewaet River Basin, British Columbia, Canada. Atmosphere - Ocean, 2013, 51, 416-435.	0.6	20
30	Parameterization of lateral drag in flowline models of glacier dynamics. Journal of Glaciology, 2012, 58, 1119-1132.	1.1	23
31	Glacier volumeâ€“area relation for highâ€order mechanics and transient glacier states. Geophysical Research Letters, 2012, 39, .	1.5	38
32	Isotope thermometry in meltâ€affected ice cores. Journal of Geophysical Research, 2011, 116, .	3.3	5
33	On Characteristic Timescales of Glacier AX010 in the Nepalese Himalaya. Bulletin of Glaciological Research, 2011, 29, 19-29.	0.5	6
34	Mesoscale Temperature Patterns in the Rocky Mountains and Foothills Region of Southern Alberta. Atmosphere - Ocean, 2011, 49, 189-205.	0.6	18
35	Ongoing climate change following a complete cessation of carbon dioxide emissions. Nature Geoscience, 2011, 4, 83-87.	5.4	169
36	A Lagrangian approach to modelling stable isotopes in precipitation over mountainous terrain. Hydrological Processes, 2011, 25, 2481-2491.	1.1	23

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37	Improvements to shear-deformational models of glacier dynamics through a longitudinal stress factor. Journal of Glaciology, 2011, 57, 1003-1016.	1.1	17
38	Glacier Water Resources on the Eastern Slopes of the Canadian Rocky Mountains. Canadian Water Resources Journal, 2011, 36, 109-134.	0.5	114
39	The effects of meltwater percolation on the seasonal isotopic signals in an Arctic snowpack. Journal of Glaciology, 2009, 55, 1012-1024.	1.1	16
40	Near-Surface Temperature Lapse Rates over Arctic Glaciers and Their Implications for Temperature Downscaling. Journal of Climate, 2009, 22, 4281-4298.	1.2	138
41	Mass balance of the Prince of Wales Icefield, Ellesmere Island, Nunavut, Canada. Journal of Geophysical Research, 2009, 114, .	3.3	14
42	Temperature and Melt Modeling on the Prince of Wales Ice Field, Canadian High Arctic. Journal of Climate, 2009, 22, 1454-1468.	1.2	13
43	Engaging Students in Atmospheric Science: A University-High School Collaboration in British Columbia, Canada. Journal of Geoscience Education, 2009, 57, 128-136.	0.8	3
44	Neglecting iceâ€atmosphere interactions underestimates ice sheet melt in millennialâ€scale deglaciation simulations. Geophysical Research Letters, 2008, 35, .	1.5	21
45	Interannual Atmospheric Variability Affects Continental Ice Sheet Simulations on Millennial Time Scales. Journal of Climate, 2008, 21, 5976-5992.	1.2	5
46	Altitudinal Gradients of Stable Isotopes in Lee-Slope Precipitation in the Canadian Rocky Mountains. Arctic, Antarctic, and Alpine Research, 2007, 39, 455-467.	0.4	43
47	Toward a new generation of ice sheet models. Eos, 2007, 88, 578-579.	0.1	25
48	Near-surface-temperature lapse rates on the Prince of Wales Icefield, Ellesmere Island, Canada: implications for regional downscaling of temperature. International Journal of Climatology, 2007, 27, 385-398.	1.5	131
49	Atmospheric flow indices, regional climate, and Glacier mass balance in the Canadian Rocky mountains. International Journal of Climatology, 2007, 27, 233-247.	1.5	26
50	Ice sheet action versus reaction: Distinguishing between Heinrich events and Dansgaard-Oeschger cycles in the North Atlantic. Paleoceanography, 2006, 21, n/a-n/a.	3.0	59
51	Spatial patterns and seasonal variation of snowpack sulphate isotopes of the Prince of Wales Icefield, Ellesmere Island, Canada. Annals of Glaciology, 2006, 43, 390-396.	2.8	11
52	Numerical modeling investigations of the subglacial conditions of the southern Laurentide ice sheet. Annals of Glaciology, 2005, 40, 219-224.	2.8	8
53	Sensitivity of VatnajÃ¶kull ice cap hydrology and dynamics to climate warming over the next 2 centuries. Journal of Geophysical Research, 2005, 110, .	3.3	66
54	Simulation of VatnajÃ¶kull ice cap dynamics. Journal of Geophysical Research, 2005, 110, .	3.3	49

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55	Melt season duration on Canadian Arctic ice caps, 2000-2004. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	41
56	Glacier Distributions and Climate in the Canadian Rockies. Arctic, Antarctic, and Alpine Research, 2004, 36, 272-279.	0.4	35
57	Glacial termination: sensitivity to orbital and CO 2 forcing in a coupled climate system model. Climate Dynamics, 2001, 17, 571-588.	1.7	28
58	Freshwater Forcing of Abrupt Climate Change During the Last Glaciation. Science, 2001, 293, 283-287.	6.0	539
59	Modelling Glacier Response to Climate Change. , 0, , 163-173.		8