

Wayne H Pollard

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,376
citations

394286

19
h-index

345118

36
g-index

44
all docs

44
docs citations

44
times ranked

1503
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved prediction of the vertical distribution of ground ice in Arctic-Antarctic permafrost sediments. <i>Communications Earth & Environment</i> , 2022, 3, .	2.6	6
2	A model for stable isotopes of residual liquid water and ground ice in permafrost soils using arbitrary water chemistries and soil-specific empirical residual water functions. <i>Permafrost and Periglacial Processes</i> , 2021, 32, 248-260.	1.5	5
3	Holocene ice wedge formation in the Eureka Sound Lowlands, high Arctic Canada. <i>Quaternary Research</i> , 2021, 102, 175-187.	1.0	6
4	Daily Field Observations of Retrogressive Thaw Slump Dynamics in the Canadian High Arctic. <i>Arctic</i> , 2021, 74, 339-354.	0.2	2
5	A model of unfrozen water content and its transport in icy permafrost soils: Effects on ground ice content and permafrost stability. <i>Permafrost and Periglacial Processes</i> , 2020, 31, 184-199.	1.5	14
6	The Importance of Incorporating Landscape Change for Predictions of Climate-Induced Plant Phenological Shifts. <i>Frontiers in Plant Science</i> , 2020, 11, 759.	1.7	0
7	Impacts of Degrading Ice-Wedges on Ground Temperatures in a High Arctic Polar Desert System. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005173.	1.0	9
8	Rapid initialization of retrogressive thaw slumps in the Canadian high Arctic and their response to climate and terrain factors. <i>Environmental Research Letters</i> , 2019, 14, 055006.	2.2	80
9	Coastal Erosion of Permafrost Soils Along the Yukon Coastal Plain and Fluxes of Organic Carbon to the Canadian Beaufort Sea. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 406-422.	1.3	52
10	An estimate of ice wedge volume for a High Arctic polar desert environment, Fosheim Peninsula, Ellesmere Island. <i>Cryosphere</i> , 2018, 12, 3589-3604.	1.5	16
11	Cryostratigraphy and the Sublimation Unconformity in Permafrost from an Ultraxerous Environment, University Valley, McMurdo Dry Valleys of Antarctica. <i>Permafrost and Periglacial Processes</i> , 2017, 28, 649-662.	1.5	10
12	Distribution and origin of ground ice in University Valley, McMurdo Dry Valleys, Antarctica. <i>Antarctic Science</i> , 2017, 29, 183-198.	0.5	12
13	A Model for Quantifying Ground-Ice Volume, Yukon Coast, Western Arctic Canada. <i>Permafrost and Periglacial Processes</i> , 2017, 28, 534-542.	1.5	18
14	Physicochemical and Biological Controls on Carbon and Nitrogen in Permafrost from an Ultraxerous Environment, McMurdo Dry Valleys of Antarctica. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 2593-2604.	1.3	8
15	Sixty-year legacy of human impacts on a high Arctic ecosystem. <i>Journal of Applied Ecology</i> , 2016, 53, 876-884.	1.9	14
16	Solar Radiation and Air and Ground Temperature Relations in the Cold and Hyper-Arid Quartermain Mountains, McMurdo Dry Valleys of Antarctica. <i>Permafrost and Periglacial Processes</i> , 2016, 27, 163-176.	1.5	32
17	Ground ice melt in the high Arctic leads to greater ecological heterogeneity. <i>Journal of Ecology</i> , 2016, 104, 114-124.	1.9	23
18	Ground surface temperature and humidity, ground temperature cycles and the ice table depths in University Valley, McMurdo Dry Valleys of Antarctica. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 2069-2084.	1.0	17

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19	Nearing the cold-arid limits of microbial life in permafrost of an upper dry valley, Antarctica. ISME Journal, 2016, 10, 1613-1624.	4.4	144
20	Erosion and Flooding—Threats to Coastal Infrastructure in the Arctic: A Case Study from Herschel Island, Yukon Territory, Canada. Estuaries and Coasts, 2016, 39, 900-915.	1.0	83
21	Vegetation Recovery Patterns Following Permafrost Disturbance in a Low Arctic Setting: Case Study of Herschel Island, Yukon, Canada. Arctic, Antarctic, and Alpine Research, 2015, 47, 99-113.	0.4	28
22	The application of CCR and GPR to characterize ground ice conditions at Parsons Lake, Northwest Territories. Cold Regions Science and Technology, 2013, 85, 22-33.	1.6	17
23	Distribution of depth to ice-cemented soils in the high-elevation Quartermain Mountains, McMurdo Dry Valleys, Antarctica. Antarctic Science, 2013, 25, 575-582.	0.5	30
24	Geometric Evolution of Polygonal Terrain Networks in the Canadian High Arctic: Evidence of Increasing Regularity over Time. Permafrost and Periglacial Processes, 2012, 23, 178-186.	1.5	22
25	The dielectric permittivity of terrestrial ground ice formations: Considerations for planetary exploration using ground-penetrating radar. Journal of Geophysical Research, 2012, 117, .	3.3	11
26	Late glacial and Holocene sedimentation, vegetation, and climate history from easternmost Beringia (northern Yukon Territory, Canada). Quaternary Research, 2012, 78, 549-560.	1.0	18
27	Origin and characteristics of massive ground ice on Herschel Island (western Canadian Arctic) as revealed by stable water isotope and Hydrochemical signatures. Permafrost and Periglacial Processes, 2011, 22, 26-38.	1.5	54
28	Analysis of polygonal terrain landforms on Earth and Mars through spatial point patterns. Environmetrics, 2009, 20, 206-220.	0.6	16
29	Arctic coastal retreat through block failure. Canadian Geotechnical Journal, 2009, 46, 1103-1115.	1.4	76
30	Geophysical mapping of ground ice using a combination of capacitive coupled resistivity and ground-penetrating radar, Northwest Territories, Canada. Journal of Geophysical Research, 2008, 113, .	3.3	57
31	Reply to comment by K. Gajewski on "Abrupt environmental change in Canada's northernmost lake". Geophysical Research Letters, 2008, 35, .	1.5	0
32	Abrupt environmental change in Canada's northernmost lake inferred from fossil diatom and pigment stratigraphy. Geophysical Research Letters, 2007, 34, .	1.5	38
33	Modelling geomorphic response to climatic change. Climatic Change, 2007, 85, 407-431.	1.7	25
34	Environmental controls on microbial colonization of high Arctic cryptoendolithic habitats. Polar Biology, 2006, 30, 19-29.	0.5	51
35	Icing processes associated with high Arctic perennial springs, Axel Heiberg Island, Nunavut, Canada. Permafrost and Periglacial Processes, 2005, 16, 51-68.	1.5	49
36	Annual Development Cycle of an Icing Deposit and Associated Perennial Spring Activity on Axel Heiberg Island, Canadian High Arctic. Arctic, Antarctic, and Alpine Research, 2005, 37, 127-135.	0.4	17

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37	Formation of Martian gullies by the action of liquid water flowing under current Martian environmental conditions. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	143
38	Stratigraphy and glaciotectonic structures of permafrost deformed beneath the northwest margin of the Laurentide ice sheet, Tuktoyaktuk Coastlands, Canada. <i>Journal of Glaciology</i> , 2004, 50, 399-412.	1.1	58
39	Cold springs in permafrost on Earth and Mars. <i>Journal of Geophysical Research</i> , 2002, 107, 4-1.	3.3	72
40	Deductive model proposed for evaluating terrestrial analogues. <i>Eos</i> , 2001, 82, 501-501.	0.1	6
41	The Hydrologic Analysis and Modelling of River Icing Growth, North Fork Pass, Yukon Territory, Canada. <i>Permafrost and Periglacial Processes</i> , 1997, 8, 279-294.	1.5	23
42	Ground Icing Formation: Experimental and Statistical Analyses of the Overflow Process. <i>Permafrost and Periglacial Processes</i> , 1997, 8, 217-235.	1.5	13