Veijo Allan Pohjola

List of Publications by Year
in descending order

80 papers	2,530 citations	212478 28 h-index	252626 46 g-index
80 all docs	80 docs citations	80 times ranked	2820 citing authors

#	Article	IF	Citations
1	Accelerating future mass loss of Svalbard glaciers from a multi-model ensemble. Journal of Glaciology, 2021, 67, 485-499.	1.1	16
2	SIOSâ€™s Earth Observation (EO), Remote Sensing (RS), and Operational Activities in Response to COVID-19. Remote Sensing, 2021, 13, 712.	1.8	10
3	Water content of firn at Lomonosovfonna, Svalbard, derived from subsurface temperature measurements. Journal of Glaciology, 2021, 67, 921-932.	1.1	3
4	A Compilation of Snow Cover Datasets for Svalbard: A Multi-Sensor, Multi-Model Study. Remote Sensing, 2021, 13, 2002.	1.8	4
5	Reconciling Svalbard Glacier Mass Balance. Frontiers in Earth Science, 2020, 8, .	0.8	77
6	Thermal conductivity of firn at Lomonosovfonna, Svalbard, derived from subsurface temperature measurements. Cryosphere, 2019, 13, 1843-1859.	1.5	6
7	A long-term dataset of climatic mass balance, snow conditions, and runoff in Svalbard (1957â€“2018). Cryosphere, 2019, 13, 2259-2280.	1.5	79
8	Dynamic Response of a High Arctic Glacier to Melt and Runoff Variations. Geophysical Research Letters, 2018, 45, 4917-4926.	1.5	12
9	A plot-scale study of firn stratigraphy at Lomonosovfonna, Svalbard, using ice cores, borehole video and GPR surveys in 2012â€“14. Journal of Glaciology, 2017, 63, 67-78.	1.1	10
10	Parameterizing Deep Water Percolation Improves Subsurface Temperature Simulations by a Multilayer Firn Model. Frontiers in Earth Science, 2017, 5, .	0.8	16
11	A synthetic ice core approach to estimate ion relocation in an ice field site experiencing periodical melt: a case study on Lomonosovfonna, Svalbard. Cryosphere, 2016, 10, 961-976.	1.5	9
12	The Changing Impact of Snow Conditions and Refreezing on the Mass Balance of an Idealized Svalbard Glacier. Frontiers in Earth Science, 2016, 4, .	0.8	26
13	Adjustment of regional climate model output for modeling the climatic mass balance of all glaciers on Svalbard. Journal of Geophysical Research D: Atmospheres, 2016, 121, 5411-5429.	1.2	18
14	Remotely Sensed Nightlights to Map Societal Exposure to Hydrometeorological Hazards. Remote Sensing, 2015, 7, 12380-12399.	1.8	4
15	First ice core records of NO₃^{â^’} stable isotopes from Lomonosovfonna, Svalbard. Journal of Geophysical Research D: Atmospheres, 2015, 120, 313-330.	1.2	11
16	Spatial distribution of disasters caused by natural hazards in the samala river catchment, guatemala. Geografiska Annaler, Series A: Physical Geography, 2015, 97, 181-196.	0.6	6
17	Nitrate stable isotopes and major ions in snow and ice samples from four Svalbard sites. Polar Research, 2015, 34, 23246.	1.6	10
18	Assessment of heat sources on the control of fast flow of Vestfonna ice cap, Svalbard. Cryosphere, 2014, 8, 1951-1973.	1.5	16

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19	Inverse estimation of snow accumulation along a radar transect on NordenskiÃ¶ldbreen, Svalbard. Journal of Geophysical Research F: Earth Surface, 2014, 119, 816-835.	1.0	29
20	An iterative inverse method to estimate basal topography and initialize ice flow models. Cryosphere, 2013, 7, 987-1006.	1.5	62
21	Lomonosovfonna and Holtedahlfonna ice cores reveal eastâ€“west disparities of the Spitsbergen environment since <scp>AD</scp> 1700. Journal of Glaciology, 2013, 59, 1069-1083.	1.1	24
22	Sensitivity of basal conditions in an inverse model: Vestfonna ice cap, Nordaustlandet/Svalbard. Cryosphere, 2012, 6, 771-783.	1.5	33
23	Applying a Mesoscale Atmospheric Model to Svalbard Glaciers. Advances in Meteorology, 2012, 2012, 1-22.	0.6	31
24	Simulating melt, runoff and refreezing on NordenskiÃ¶ldbreen, Svalbard, using a coupled snow and energy balance model. Cryosphere, 2012, 6, 641-659.	1.5	95
25	Nitrate and Sulfate Anthropogenic Trends in the 20th Century from Five Svalbard Ice Cores. Arctic, Antarctic, and Alpine Research, 2012, 44, 490-499.	0.4	11
26	Climatic mass balance of the ice cap Vestfonna, Svalbard: A spatially distributed assessment using ERA-Interim and MODIS data. Journal of Geophysical Research, 2011, 116, .	3.3	33
27	Using high-resolution tritium profiles to quantify the effects of melt on two Spitsbergen ice cores. Journal of Glaciology, 2011, 57, 1087-1097.	1.1	22
28	SÃ¡mi traditional ecological knowledge as a guide to science: snow, ice and reindeer pasture facing climate change. Polar Record, 2011, 47, 202-217.	0.4	86
29	Thousand years of winter surface air temperature variations in Svalbard and northern Norway reconstructed from ice-core data. Polar Research, 2011, 30, 7379.	1.6	78
30	Preface: the international polar year project â€˜kinnvikaâ€™â€“ arctic warming and impact research at 80Â° n. Geografiska Annaler, Series A: Physical Geography, 2011, 93, 201-208.	0.6	8
31	Changes of glacier frontal positions of vestfonna (nordaustlandet, svalbard). Geografiska Annaler, Series A: Physical Geography, 2011, 93, 301-310.	0.6	18
32	Ice thickness and basal conditions of vestfonna ice cap, eastern svalbard. Geografiska Annaler, Series A: Physical Geography, 2011, 93, 311-322.	0.6	20
33	Spatial and temporal variability of net accumulation from shallow cores from vestfonna ice cap (nordaustlandet, svalbard). Geografiska Annaler, Series A: Physical Geography, 2011, 93, 287-299.	0.6	13
34	Spatial distribution and change in the surface iceâ€velocity field of vestfonna ice cap, nordaustlandet, svalbard, 1995â€“2010 using geodetic and satellite interferometry data. Geografiska Annaler, Series A: Physical Geography, 2011, 93, 323-335.	0.6	14
35	Multi-Decadal Changes in Snow Characteristics in Sub-Arctic Sweden. Ambio, 2011, 40, 566-574.	2.8	39
36	Multi-Decadal Changes in Tundra Environments and Ecosystems: Synthesis of the International Polar Year-Back to the Future Project (IPY-BTF). Ambio, 2011, 40, 705-716.	2.8	98

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37	Modelling the regional climate and isotopic composition of Svalbard precipitation using REMO_{iso}: a comparison with available GNIP and ice core data. Hydrological Processes, 2011, 25, 3748-3759.	1.1	9
38	Snow isotope diffusion rates measured in a laboratory experiment. Journal of Glaciology, 2011, 57, 30-38.	1.1	11
39	Stand-alone single-frequency GPS ice velocity observations on NordenskiÃ¶ldbreen, Svalbard. Cryosphere, 2010, 4, 593-604.	1.5	32
40	Current use and legacy pesticide deposition to ice caps on Svalbard, Norway. Journal of Geophysical Research, 2010, 115, .	3.3	50
41	Deposition History of Brominated Flame Retardant Compounds in an Ice Core from Holtedahlfonna, Svalbard, Norway. Environmental Science & Technology, 2010, 44, 7405-7410.	4.6	80
42	Subaerial salt extrusions in Iran as analogues of ice sheets, streams and glaciers. Earth-Science Reviews, 2009, 97, 155-183.	4.0	64
43	Glacial long period seismic events at Katla volcano, Iceland. Geophysical Research Letters, 2009, 36, .	1.5	18
44	Determination of firn density in ice cores using image analysis. Journal of Glaciology, 2007, 53, 413-419.	1.1	26
45	Controlled experiments on the diffusion rate of stable isotopes of water in artificial firn. Journal of Glaciology, 2007, 53, 537-546.	1.1	5
46	Warm summers and ion concentrations in snow: comparison of present day with Medieval Warm Epoch from snow pits and an ice core from Lomonosovfonna, Svalbard. Journal of Glaciology, 2007, 53, 623-634.	1.1	22
47	Svalbard summer melting, continentality, and sea ice extent from the Lomonosovfonna ice core. Journal of Geophysical Research, 2006, 111, .	3.3	24
48	Climate oscillations as recorded in svalbard ice core Ï‰18o records between ad 1200 and 1997. Geografiska Annaler, Series A: Physical Geography, 2005, 87, 203-214.	0.6	47
49	Potential to recover climatic information from scandinavian ice cores: an example from the small ice cap riukojietna. Geografiska Annaler, Series A: Physical Geography, 2005, 87, 259-270.	0.6	4
50	Two ice-core Î´18O records from Svalbard illustrating climate and sea-ice variability over the last 400 years. Holocene, 2005, 15, 501-509.	0.9	44
51	The 800 year long ion record from the Lomonosovfonna (Svalbard) ice core. Journal of Geophysical Research, 2005, 110, .	3.3	42
52	Separation of melting and environmental signals in an ice core with seasonal melt. Geophysical Research Letters, 2005, 32, .	1.5	40
53	Investigating the potential to determine the upstream accumulation rate, using mass-flux calculations along a cross-section on a small tributary glacier in Heimefrontfjella, Dronning Maud Land, Antarctica. Annals of Glaciology, 2004, 39, 175-180.	2.8	3
54	Ice flux of Plogbreen, a small ice stream in Dronning Maud Land, Antarctica. Annals of Glaciology, 2004, 39, 409-416.	2.8	1

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55	Ice cores from Svalbardâ€“â€“useful archives of past climate and pollution history. Physics and Chemistry of the Earth, 2003, 28, 1217-1228.	1.2	98
56	Studying the effects of strain heating on glacial flow within outlet glaciers from the Heimefrontfjella Range, Dronning Maud Land, Antarctica. Annals of Glaciology, 2003, 37, 134-142.	2.8	7
57	Spatial and temporal variability of snow accumulation using ground-penetrating radar and ice cores on a Svalbard glacier. Journal of Glaciology, 2002, 48, 417-424.	1.1	73
58	A 800 year record of nitrate from the Lomonosovfonna ice core, Svalbard. Annals of Glaciology, 2002, 35, 261-265.	2.8	30
59	Reconstruction of the historical temperature trend from measurements in a medium-length borehole on the Lomonosovfonna plateau, Svalbard. Annals of Glaciology, 2002, 35, 371-378.	2.8	41
60	Reconstruction of three centuries of annual accumulation rates based on the record of stable isotopes of water from Lomonosovfonna, Svalbard. Annals of Glaciology, 2002, 35, 57-62.	2.8	49
61	On the Potential to Retrieve Climatic and Environmental Information from Ice-Core Sites Suffering Periodical Melt, with Specific Assessment of the Southern Patagonia Icefield. Series of the Centro De Estudios CientÃficos De Santiago, 2002, , 125-138.	0.2	1
62	A new ice-core record from Lomonosovfonna, Svalbard: viewing the 1920â€“97 data in relation to present climate and environmental conditions. Journal of Glaciology, 2001, 47, 335-345.	1.1	63
63	Reconstruction of the undiffused seasonal oxygen isotope signal in central Greenland ice cores. Journal of Geophysical Research, 2000, 105, 22095-22106.	3.3	17
64	Methanesulfonic acid in a Svalbard Ice Core as an indicator of ocean climate. Geophysical Research Letters, 2000, 27, 1159-1162.	1.5	56
65	Atmospheric circulation variability associated with shallow-core seasonal isotopic extremes near Summit, Greenland. Journal of Geophysical Research, 1998, 103, 11205-11219.	3.3	34
66	Coupling between the atmospheric circulation and extremes of the mass balance of StorglaciÃren, northern Scandinavia. Annals of Glaciology, 1997, 24, 229-233.	2.8	16
67	Atmospheric Circulation and Variations in Scandinavian Glacier Mass Balance. Quaternary Research, 1997, 47, 29-36.	1.0	77
68	Coupling between the atmospheric circulation and extremes of the mass balance of StorglaciÃren, northern Scandinavia. Annals of Glaciology, 1997, 24, 229-233.	2.8	3
69	Simulation of Particle Paths and Deformation of Ice Structures along a Flow-Line on Storglaciaren, Sweden. Geografiska Annaler, Series A: Physical Geography, 1996, 78, 181.	0.6	5
70	Simulation of Particle Paths and Deformation of Ice Structures Along a Flow-Line on StorglaciÃren, Sweden. Geografiska Annaler, Series A: Physical Geography, 1996, 78, 181-192.	0.6	2
71	Characteristics of basal ice at Engabreen, northern Norway. Annals of Glaciology, 1996, 22, 114-120.	2.8	7
72	Hydrology of a segment of a glacier situated in an overdeepening, StorglaciÃren, Sweden. Journal of Glaciology, 1994, 40, 140-148.	1.1	6

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73	Hydrology of a segment of a glacier situated in an overdeepening, StorglaciÃren, Sweden. Journal of Glaciology, 1994, 40, 140-148.	1.1	124
74	TV-video observations of englacial voids in StorglaciÃren, Sweden. Journal of Glaciology, 1994, 40, 231-240.	1.1	40
75	TV-video observations of englacial voids in StorglaciÃren, Sweden. Journal of Glaciology, 1994, 40, 231-240.	1.1	15
76	TV-video observations of bed and basal sliding on StorglaciÃren, Sweden. Journal of Glaciology, 1993, 39, 111-118.	1.1	22
77	Intra-seasonal changes in deformation profiles revealed by borehole studies, StorglaciÃren, Sweden. Journal of Glaciology, 1992, 38, 348-358.	1.1	0
78	Intra-seasonal changes in deformation profiles revealed by borehole studies, StorglaciÃren, Sweden. Journal of Glaciology, 1992, 38, 348-358.	1.1	96
79	Evidence for a Till Layer Beneath StorglaciÃren, Sweden, Based on Electrical Resistivity Measurements. Journal of Glaciology, 1987, 33, 311-314.	1.1	3
80	Evidence for a Till Layer Beneath StorglaciaÌˆren, Sweden, Based on Electrical Resistivity Measurements. Journal of Glaciology, 1987, 33, 311-314.	1.1	76