

Jon Ove Hagen

List of Publications by Year in descending order

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73
papers

5,887
citations

81900
39
h-index

91884
69
g-index

73
all docs

73
docs citations

73
times ranked

4009
citing authors

#	ARTICLE	IF	CITATIONS
1	A Reconciled Estimate of Glacier Contributions to Sea Level Rise: 2003 to 2009. <i>Science</i> , 2013, 340, 852-857.	12.6	1,044
2	The physical environment of Kongsfjorden?Krossfjorden, an Arctic fjord system in Svalbard. <i>Polar Research</i> , 2002, 21, 133-166.	1.6	625
3	Recent elevation changes of Svalbard glaciers derived from ICESat laser altimetry. <i>Remote Sensing of Environment</i> , 2010, 114, 2756-2767.	11.0	242
4	The duration of the active phase on surge-type glaciers: contrasts between Svalbard and other regions. <i>Journal of Glaciology</i> , 1991, 37, 388-400.	2.2	200
5	The Mass Balance of Circum-Arctic Glaciers and Recent Climate Change. <i>Quaternary Research</i> , 1997, 48, 1-14.	1.7	194
6	The thermal regime of sub-polar glaciers mapped by multi-frequency radio-echo sounding. <i>Journal of Glaciology</i> , 1996, 42, 23-32.	2.2	190
7	Svalbard glacier elevation changes and contribution to sea level rise. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	190
8	The thermal regime of sub-polar glaciers mapped by multi-frequency radio-echo sounding. <i>Journal of Glaciology</i> , 1996, 42, 23-32.	2.2	177
9	Long-Term Glacier Mass-Balance Investigations in Svalbard, 1950â€“88. <i>Annals of Glaciology</i> , 1990, 14, 102-106.	1.4	173
10	On the Net Mass Balance of the Glaciers and Ice Caps in Svalbard, Norwegian Arctic. <i>Arctic, Antarctic, and Alpine Research</i> , 2003, 35, 264-270.	1.1	149
11	Glaciers in Svalbard: mass balance, runoff and freshwater flux. <i>Polar Research</i> , 2003, 22, 145-159.	1.6	146
12	The physical environment of Kongsfjordenâ€“Krossfjorden, an Arctic fjord system in Svalbard. <i>Polar Research</i> , 2002, 21, 133-166.	1.6	105
13	Svalbard surge dynamics derived from geometric changes. <i>Annals of Glaciology</i> , 2009, 50, 50-60.	1.4	105
14	Glaciers in Svalbard: mass balance, runoff and freshwater flux. <i>Polar Research</i> , 2003, 22, 145-159.	1.6	103
15	Glacier-permafrost interaction in Arctic and alpine mountain environments with examples from southern Norway and Svalbard. <i>Geological Society Special Publication</i> , 2005, 242, 11-27.	1.3	80
16	The hydrochemistry of Bayelva, a high Arctic proglacial stream in Svalbard. <i>Journal of Hydrology</i> , 2002, 257, 91-114.	5.4	79
17	A long-term dataset of climatic mass balance, snow conditions, and runoff in Svalbard (1957â€“2018). <i>Cryosphere</i> , 2019, 13, 2259-2280.	3.9	79
18	Estimating the long-term calving flux of Kronebreen, Svalbard, from geodetic elevation changes and mass-balance modeling. <i>Journal of Glaciology</i> , 2012, 58, 119-133.	2.2	75

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19	Suspended sediment yield and transfer processes in a small High-Arctic glacier basin, Svalbard. , 1998, 12, 73-86.		70
20	Evolution of a Surge-Type Glacier in its Quiescent Phase: Kongsvegen, Spitsbergen, 1964â€“95. Journal of Glaciology, 1998, 44, 394-404.	2.2	69
21	Diagnosing the decline in climatic mass balance of glaciers in Svalbard over 1957â€“2014. Cryosphere, 2017, 11, 191-215.	3.9	69
22	Radio-echo soundings of sub-polar glaciers with low-frequency radar. Polar Research, 1991, 9, 99-107.	1.6	68
23	Flow speed and calving rate of Kongsbreen glacier, Svalbard, using SPOT images. Polar Research, 1994, 13, 59-65.	1.6	64
24	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.	2.2	63
25	Evolution of a Surge-Type Glacier in its Quiescent Phase: Kongsvegen, Spitsbergen, 1964â€“95. Journal of Glaciology, 1998, 44, 394-404.	2.2	61
26	Glacier balance trends in the Kongsfjorden area, western Spitsbergen, Svalbard, in relation to the climate. Polar Research, 1999, 18, 307-313.	1.6	60
27	Radio-echo soundings of sub-polar glaciers with low-frequency radar. Polar Research, 1991, 9, 99-107.	1.6	60
28	Subglacial hydrology and sediment transport at Bondhusbreen, southwest Norway. Bulletin of the Geological Society of America, 1985, 96, 388.	3.3	56
29	Geometry changes on Svalbard glaciers: mass-balance or dynamic response?. Annals of Glaciology, 2005, 42, 255-261.	1.4	56
30	Calibrating a surface mass-balance model for Austfonna ice cap, Svalbard. Annals of Glaciology, 2007, 46, 241-248.	1.4	56
31	A mean net accumulation pattern derived from radioactive layers and radar soundings on Austfonna, Nordaustlandet, Svalbard. Journal of Glaciology, 2001, 47, 555-566.	2.2	55
32	Recent fluctuations in the extent of the firn area of Austfonna, Svalbard, inferred from GPR. Annals of Glaciology, 2009, 50, 155-162.	1.4	52
33	Accumulation in Svalbard glaciers deduced from ice cores with nuclear tests and Chernobyl reference layers. Polar Research, 1999, 18, 315-321.	1.6	50
34	The distribution of snow accumulation across the Austfonna ice cap, Svalbard: direct measurements and modelling. Polar Research, 2007, 26, 7-13.	1.6	50
35	Flow speed and calving rate of Kongsbreen glacier, Svalbard, using SPOT images. Polar Research, 1994, 13, 59-65.	1.6	48
36	Glacier balance trends in the Kongsfjorden area, western Spitsbergen, Svalbard, in relation to the climate. Polar Research, 1999, 18, 307-313.	1.6	44

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37	Quiescent-phase changes in velocity and geometry of Finsterwalderbreen, a surge-type glacier in Svalbard. <i>Annals of Glaciology</i> , 1997, 24, 249-254.	1.4	43
38	Reconstructed Runoff from the High Arctic Basin Bayelva based on Mass-Balance Measurements. <i>Hydrology Research</i> , 1995, 26, 285-296.	2.7	43
39	Use of C-Band Ground Penetrating Radar to Determine Backscatter Sources Within Glaciers. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 1236-1246.	6.3	42
40	Long-Term Glacier Mass-Balance Investigations in Svalbard, 1950-88. <i>Annals of Glaciology</i> , 1990, 14, 102-106.	1.4	41
41	Sensitivity to long-term climate change of subpermafrost groundwater systems in Svalbard. <i>Quaternary Research</i> , 2010, 73, 393-402.	1.7	41
42	Glacier surge at Usherbreen, Svalbard. <i>Polar Research</i> , 1987, 5, 239-252.	1.6	40
43	“Little Ice Age” glacier extent and subsequent retreat in Svalbard archipelago. <i>Holocene</i> , 2017, 27, 1379-1390.	1.7	39
44	20th century mass balance and thermal regime change at Scott Turnerbreen, Svalbard. <i>Annals of Glaciology</i> , 1999, 28, 216-220.	1.4	37
45	Kinematic GPS survey of geometry changes on Svalbard glaciers. <i>Annals of Glaciology</i> , 1997, 24, 157-163.	1.4	35
46	From Glacier Facies to SAR Backscatter Zones via GPR. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 2506-2516.	6.3	34
47	The duration of the active phase on surge-type glaciers: contrasts between Svalbard and other regions. <i>Journal of Glaciology</i> , 1991, 37, 388-400.	2.2	32
48	Runoff and drainage pattern derived from digital elevation models, Finsterwalderbreen, Svalbard. <i>Annals of Glaciology</i> , 2000, 31, 147-152.	1.4	30
49	Characteristics of subglacial drainage systems deduced from load-cell measurements. <i>Journal of Glaciology</i> , 2006, 52, 137-148.	2.2	30
50	Kinematic GPS survey of geometry changes on Svalbard glaciers. <i>Annals of Glaciology</i> , 1997, 24, 157-163.	1.4	29
51	Permanent fast flow versus cyclic surge behaviour: numerical simulations of the Austfonna ice cap, Svalbard. <i>Journal of Glaciology</i> , 2011, 57, 247-259.	2.2	28
52	Accumulation in Svalbard glaciers deduced from ice cores with nuclear tests and Chernobyl reference layers. <i>Polar Research</i> , 1999, 18, 315-321.	1.6	27
53	An ice-core chemistry record from Sn̂fjellafonna, northwestern Spitsbergen. <i>Annals of Glaciology</i> , 1995, 21, 213-218.	1.4	26
54	Arctic ice caps and glaciers. , 2004, , 527-558.		26

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55	Subglacial Processes at Bondhusbreen, Norway: Preliminary Results. <i>Annals of Glaciology</i> , 1983, 4, 91-98.	1.4	25
56	Estimation of relative water content in a sub-polar glacier using surface-penetration radar. <i>Journal of Glaciology</i> , 1996, 42, 533-537.	2.2	25
57	Mass-balance estimates on the glacier complex Kongsvegen and Sveabreen, Spitsbergen, Svalbard, using radioactive layers. <i>Journal of Glaciology</i> , 1994, 40, 368-376.	2.2	22
58	Large spatial variation in accumulation rate in Jutulstraumen ice stream, Dronning Maud Land, Antarctica. <i>Annals of Glaciology</i> , 1998, 27, 231-238.	1.4	22
59	Estimation of relative water content in a sub-polar glacier using surface-penetration radar. <i>Journal of Glaciology</i> , 1996, 42, 533-537.	2.2	21
60	Mass-balance estimates on the glacier complex Kongsvegen and Sveabreen, Spitsbergen, Svalbard, using radioactive layers. <i>Journal of Glaciology</i> , 1994, 40, 368-376.	2.2	19
61	Parameter uncertainty, refreezing and surface energy balance modelling at Austfonna ice cap, Svalbard, 2004-08. <i>Annals of Glaciology</i> , 2013, 54, 229-240.	1.4	18
62	Surface mass balance on Fimbul ice shelf, East Antarctica: Comparison of field measurements and large-scale studies. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 11,625.	3.3	18
63	Interannual variability of glacier basal pressure from a 20 year record. <i>Annals of Glaciology</i> , 2015, 56, 33-44.	1.4	14
64	Glacial mass balance of Austre Br�ggerbreen (Spitsbergen), 1971-1999, modelled with a precipitation-run-off model. <i>Polar Research</i> , 2002, 21, 109-121.	1.6	13
65	Changes of glacier facies on Hornsund glaciers (Svalbard) during the decade 2007-2017. <i>Remote Sensing of Environment</i> , 2020, 251, 112060.	11.0	12
66	Quiescent-phase changes in velocity and geometry of Finsterwalderbreen, a surge-type glacier in Svalbard. <i>Annals of Glaciology</i> , 1997, 24, 249-254.	1.4	10
67	<i>In situ</i> measurement techniques: land ice. , 2004, , 11-42.		9
68	Subglacial investigations at Bondhusbreen, Folgefonni, Norway. <i>Norsk Geografisk Tidsskrift</i> , 1993, 47, 117-162.	0.7	7
69	Glacier mass balance investigations in the balance year 1986-87. <i>Polar Research</i> , 1988, 6, 205-209.	1.6	6
70	Stress Redistribution Explains Anti-correlated Subglacial Pressure Variations. <i>Frontiers in Earth Science</i> , 2018, 5, .	1.8	6
71	Using airborne Ku-band altimeter waveforms to investigate winter accumulation and glacier facies on Austfonna, Svalbard. <i>Journal of Glaciology</i> , 2013, 59, 893-899.	2.2	5
72	Glacial mass balance of Austre Br�ggerbreen (Spitsbergen), 1971-1999, modelled with a precipitation-run-off model. <i>Polar Research</i> , 2002, 21, 109-121.	1.6	3

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73	Comparison of Airborne Radar Altimeter and Ground-based Ku-band Radar Measurements on the Ice Cap Austfonna, Svalbard. , 2008, , .		2