Alison Banwell

List of Publications by Year
in descending order

37 papers	1,449 citations	304743 22 h-index	345221 36 g-index
52 all docs	52 docs citations	52 times ranked	1179 citing authors

#	Article	IF	Citations
1	Breakup of the Larsen B Ice Shelf triggered by chain reaction drainage of supraglacial lakes. Geophysical Research Letters, 2013, 40, 5872-5876.	4.0	177
2	The Antarctic Peninsula Under a 1.5Â°C Global Warming Scenario. Frontiers in Environmental Science, 2019, 7, .	3.3	117
3	Antarctic surface hydrology and impacts on ice-sheet mass balance. Nature Climate Change, 2018, 8, 1044-1052.	18.8	112
4	Ice dynamic response to two modes of surface lake drainage on the Greenland ice sheet. Environmental Research Letters, 2013, 8, 034007.	5.2	88
5	Measurement and modeling of ablation of the bottom of supraglacial lakes in western Greenland. Geophysical Research Letters, 2012, 39, .	4.0	65
6	Modeling supraglacial water routing and lake filling on the Greenland Ice Sheet. Journal of Geophysical Research, 2012, 117, .	3.3	65
7	Moulin density controls drainage development beneath the Greenland ice sheet. Journal of Geophysical Research F: Earth Surface, 2016, 121, 2248-2269.	2.8	62
8	Modeling subglacial water routing at Paakitsoq, W Greenland. Journal of Geophysical Research F: Earth Surface, 2013, 118, 1282-1295.	2.8	59
9	A Speed Limit on Ice Shelf Collapse Through Hydrofracture. Geophysical Research Letters, 2019, 46, 12092-12100.	4.0	58
10	Supraglacial lakes on the Larsen B ice shelf, Antarctica, and at Paakitsoq, West Greenland: a comparative study. Annals of Glaciology, 2014, 55, 1-8.	1.4	57
11	Dual-satellite (Sentinel-2 and LandsatÂ8) remote sensing of supraglacial lakes in Greenland. Cryosphere, 2018, 12, 3045-3065.	3.9	49
12	A Fully Automated Supraglacial lake area and volume Tracking (â€œFASTâ€) algorithm: Development and application using MODIS imagery of West Greenland. Remote Sensing of Environment, 2017, 196, 113-133.	11.0	48
13	Direct measurements of ice-shelf flexure caused by surface meltwater ponding and drainage. Nature Communications, 2019, 10, 730.	12.8	48
14	High-resolution modelling of the seasonal evolution of surface water storage on the Greenland Ice Sheet. Cryosphere, 2014, 8, 1149-1160.	3.9	44
15	Ice-shelf fracture due to viscoelastic flexure stress induced by fill/drain cycles of supraglacial lakes. Antarctic Science, 2015, 27, 587-597.	0.9	41
16	The 32-year record-high surface melt in 2019/2020 on the northern George VI Ice Shelf, Antarctic Peninsula. Cryosphere, 2021, 15, 909-925.	3.9	32
17	Seasonal evolution of supraglacial lakes on a floating ice tongue, Petermann Glacier, Greenland. Annals of Glaciology, 2018, 59, 56-65.	1.4	30
18	A model of viscoelastic ice-shelf flexure. Journal of Glaciology, 2015, 61, 635-645.	2.2	29

#	Article	IF	Citations
19	Lateral meltwater transfer across an Antarctic ice shelf. Cryosphere, 2020, 14, 2313-2330.	3.9	26
20	Observations of Buried Lake Drainage on the Antarctic Ice Sheet. Geophysical Research Letters, 2020, 47, e2020GL087970.	4.0	25
21	Calving and rifting on the McMurdo Ice Shelf, Antarctica. Annals of Glaciology, 2017, 58, 78-87.	1.4	24
22	Conduit roughness and dye-trace breakthrough curves: why slow velocity and high dispersivity may not reflect flow in distributed systems. Journal of Glaciology, 2012, 58, 915-925.	2.2	23
23	Quantifying the effects of glacier conduit geometry and recharge on proglacial hydrograph form. Journal of Hydrology, 2012, 414-415, 59-71.	5.4	22
24	Diurnal seismicity cycle linked to subsurface melting on an ice shelf. Annals of Glaciology, 2019, 60, 137-157.	1.4	19
25	Calibration and evaluation of a high-resolution surface mass-balance model for Paakitsoq, West Greenland. Journal of Glaciology, 2012, 58, 1047-1062.	2.2	17
26	Controls on rapid supraglacial lake drainage in West Greenland: an Exploratory Data Analysis approach. Journal of Glaciology, 2018, 64, 208-226.	2.2	16
27	Over-winter persistence of supraglacial lakes on the Greenland Ice Sheet: results and insights from a new model. Journal of Glaciology, 2020, 66, 362-372.	2.2	15
28	Contrasting regional variability of buried meltwater extent over 2 years across the Greenland Ice Sheet. Cryosphere, 2021, 15, 2983-3005.	3.9	15
29	Ice-shelf stability questioned. Nature, 2017, 544, 306-307.	27.8	14
30	Supervised classification of slush and ponded water on Antarctic ice shelves using Landsat 8 imagery. Journal of Glaciology, 2022, 68, 401-414.	2.2	13
31	Modeling the response of subglacial drainage at Paakitsoq, west Greenland, to 21stcentury climate change. Journal of Geophysical Research F: Earth Surface, 2014, 119, 2619-2634.	2.8	9
32	Formation of pedestalled, relict lakes on the McMurdo Ice Shelf, Antarctica. Journal of Glaciology, 2019, 65, 337-343.	2.2	8
33	Annual to Daily Ice Velocity and Water Pressure Variations on Ka Roimata o Hine Hukatere (Franz Josef) Tj ETQq1 1 0.784314 rgBT /Over	1.1	7
34	Treatment of ice-shelf evolution combining flow and flexure. Journal of Glaciology, 2021, 67, 885-902.	2.2	5
35	Diurnal lake-level cycles on ice shelves driven by meltwater input and ocean tidal tilt. Journal of Glaciology, 2020, 66, 231-247.	2.2	3
36	Supervised classification of slush and ponded water on Antarctic ice shelves using Landsat 8 imagery â€“ CORRIGENDUM. Journal of Glaciology, 2022, 68, 415-416.	2.2	2

#	Article	IF	Citations
37	Enigmatic surface rolls of the Ellesmere Ice Shelf. Journal of Glaciology, 0, , 1-12.	2.2	0