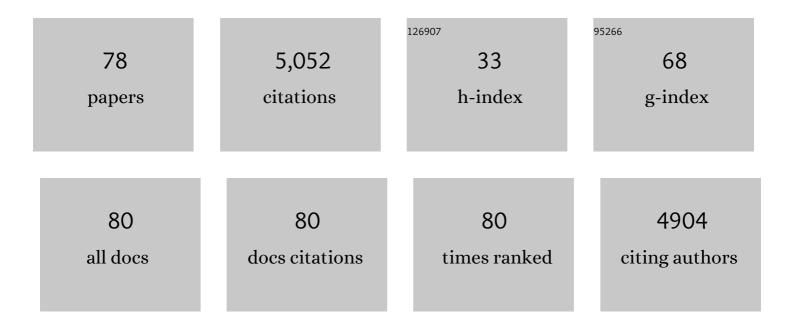
## David Holland

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Accuracy evaluation of digital elevation models derived from Terrestrial Radar Interferometer over Helheim Glacier, Greenland. Remote Sensing of Environment, 2022, 268, 112759.	11.0	5
2	Greenland Mass Trends From Airborne and Satellite Altimetry During 2011–2020. Journal of Geophysical Research F: Earth Surface, 2022, 127, .	2.8	20
3	Interannual summer mixing processes in the Ilulissat Icefjord, Greenland. Journal of Marine Systems, 2021, 214, 103476.	2.1	3
4	The Impacts of a Subglacial Discharge Plume on Calving, Submarine Melting, and Mélange Mass Loss at Helheim Glacier, South East Greenland. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2020JF005910.	2.8	8
5	Rapid decline in Antarctic sea ice in recent years hints at future change. Nature Geoscience, 2021, 14, 460-464.	12.9	95
6	Atmospheric Rivers, Warm Air Intrusions, and Surface Radiation Balance in the Amundsen Sea Embayment. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034119.	3.3	10
7	Intercomparison of Arctic sea ice simulation in ROMS-CICE and ROMS-Budgell. Polar Science, 2021, 29, 100716.	1.2	5
8	Tropical teleconnection impacts on Antarctic climate changes. Nature Reviews Earth & Environment, 2021, 2, 680-698.	29.7	85
9	Centennial response of Greenland's three largest outlet glaciers. Nature Communications, 2020, 11, 5718.	12.8	36
10	Quantifying the Uncertainty in Ground-Based GNSS-Reflectometry Sea Level Measurements. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 4419-4428.	4.9	18
11	Mechanisms driving the asymmetric seasonal cycle of Antarctic Sea Ice in the CESM Large Ensemble. Annals of Glaciology, 2020, 61, 171-180.	1.4	4
12	Depth-dependent artifacts resulting from ApRES signal clipping. Annals of Glaciology, 2020, 61, 108-113.	1.4	2
13	The Southern Ocean and its interaction with the Antarctic Ice Sheet. Science, 2020, 367, 1326-1330.	12.6	32
14	Rapid iceberg calving following removal of tightly packed pro-glacial mélange. Nature Communications, 2019, 10, 3250.	12.8	30
15	Understanding the Seasonal Cycle of Antarctic Sea Ice Extent in the Context of Longerâ€Term Variability. Reviews of Geophysics, 2019, 57, 1037-1064.	23.0	55
16	lce scallops: a laboratory investigation of the ice–water interface. Journal of Fluid Mechanics, 2019, 873, 942-976.	3.4	35
17	Ice-cliff failure via retrogressive slumping. Geology, 2019, 47, 449-452.	4.4	30
18	Bathymetry of Southeast Greenland From Oceans Melting Greenland (OMG) Data. Geophysical Research Letters, 2019, 46, 11197-11205.	4.0	12

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19	Effects of an Explosive Polar Cyclone Crossing the Antarctic Marginal Ice Zone. Geophysical Research Letters, 2019, 46, 5948-5958.	4.0	59
20	Polar Cyclones at the Origin of the Reoccurrence of the Maud Rise Polynya in Austral Winter 2017. Journal of Geophysical Research D: Atmospheres, 2019, 124, 5251-5267.	3.3	33
21	Accurate coastal DEM generation by merging ASTER GDEM and ICESat/GLAS data over Mertz Glacier, Antarctica. Remote Sensing of Environment, 2018, 206, 218-230.	11.0	23
22	Grounding line migration through the calving season at Jakobshavn Isbræ, Greenland, observed with terrestrial radar interferometry. Cryosphere, 2018, 12, 1387-1400.	3.9	21
23	Polar Jet Associated Circulation Triggered a Saharan Cyclone and Derived the Poleward Transport of the African Dust Generated by the Cyclone. Journal of Geophysical Research D: Atmospheres, 2018, 123, 11,899.	3.3	33
24	Vertical Structure of Diurnal Englacial Hydrology Cycle at Helheim Glacier, East Greenland. Geophysical Research Letters, 2018, 45, 8352-8362.	4.0	13
25	Bed elevation of Jakobshavn Isbrae, West Greenland, from high-resolution airborne gravity and other data. Geophysical Research Letters, 2017, 44, 3728-3736.	4.0	29
26	Acquisition of a 3 min, two-dimensional glacier velocity field with terrestrial radar interferometry. Journal of Glaciology, 2017, 63, 629-636.	2.2	11
27	A Model of Icebergs and Sea Ice in a Joint Continuum Framework. Journal of Geophysical Research: Oceans, 2017, 122, 9110-9125.	2.6	9
28	GPS-derived estimates of surface mass balance and ocean-induced basal melt for Pine Island Glacier ice shelf, Antarctica. Cryosphere, 2017, 11, 2655-2674.	3.9	16
29	Oceans Melting Greenland: Early Results from NASA's Ocean-Ice Mission in Greenland. , 2016, 29, 72-83.		75
30	OMIP contribution to CMIP6: experimental and diagnostic protocol for the physical component of the Ocean Model Intercomparison Project. Geoscientific Model Development, 2016, 9, 3231-3296.	3.6	223
31	Experimental design for three interrelated marine ice sheet and ocean model intercomparison projects: MISMIP v. 3 (MISMIP +), ISOMIP v. 2 (ISOMIP +) and MISOMIP v. 1 (MISOMIP1). Geoscientific Model Development, 2016, 9, 2471-2497.	3.6	106
32	Precursor motion to iceberg calving at Jakobshavn Isbræ, Greenland, observed with terrestrial radar interferometry. Journal of Glaciology, 2016, 62, 1134-1142.	2.2	22
33	Evaluation of four global reanalysis products using in situ observations in the Amundsen Sea Embayment, Antarctica. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6240-6257.	3.3	70
34	Calving Signature in Ocean Waves at Helheim Glacier and Sermilik Fjord, East Greenland. Journal of Physical Oceanography, 2016, 46, 2925-2941.	1.7	12
35	Instability and Mixing of Zonal Jets along an Idealized Continental Shelf Break. Journal of Physical Oceanography, 2015, 45, 2315-2338.	1.7	22
36	Windâ€driven upwelling around grounded tabular icebergs. Journal of Geophysical Research: Oceans, 2015, 120, 5820-5835.	2.6	30

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37	Rossby Waves Mediate Impacts of Tropical Oceans on West Antarctic Atmospheric Circulation in Austral Winter. Journal of Climate, 2015, 28, 8151-8164.	3.2	53
38	The Effect of Atmospheric Forcing Resolution on Delivery of Ocean Heat to the Antarctic Floating Ice Shelves*,+. Journal of Climate, 2015, 28, 6067-6085.	3.2	35
39	Freshwater Flux and Spatiotemporal Simulated Runoff Variability into Ilulissat Icefjord, West Greenland, Linked to Salinity and Temperature Observations near Tidewater Glacier Margins Obtained Using Instrumented Ringed Seals. Journal of Physical Oceanography, 2015, 45, 1426-1445.	1.7	17
40	Tidally driven ice speed variation at Helheim Glacier, Greenland, observed with terrestrial radar interferometry. Journal of Glaciology, 2015, 61, 301-308.	2.2	28
41	A Rossby Wave Bridge from the Tropical Atlantic to West Antarctica. Journal of Climate, 2015, 28, 2256-2273.	3.2	72
42	Sea-level feedback lowers projections of future Antarctic Ice-Sheet mass loss. Nature Communications, 2015, 6, 8798.	12.8	82
43	Oceanic Boundary Conditions for Jakobshavn Glacier. Part I: Variability and Renewal of Ilulissat Icefjord Waters, 2001–14. Journal of Physical Oceanography, 2015, 45, 3-32.	1.7	66
44	Oceanic Boundary Conditions for Jakobshavn Glacier. Part II: Provenance and Sources of Variability of Disko Bay and Ilulissat Icefjord Waters, 1990–2011. Journal of Physical Oceanography, 2015, 45, 33-63.	1.7	30
45	Molecular dynamics pre-simulations for nanoscale computational fluid dynamics. Microfluidics and Nanofluidics, 2015, 18, 461-474.	2.2	39
46	Impacts of the north and tropical Atlantic Ocean on the Antarctic Peninsula and sea ice. Nature, 2014, 505, 538-542.	27.8	238
47	An assessment of global and regional sea level for years 1993–2007 in a suite of interannual CORE-II simulations. Ocean Modelling, 2014, 78, 35-89.	2.4	106
48	Novel monitoring of Antarctic ice shelf basal melting using a fiberâ€optic distributed temperature sensing mooring. Geophysical Research Letters, 2014, 41, 6779-6786.	4.0	23
49	Efficient Flowline Simulations of Ice Shelf–Ocean Interactions: Sensitivity Studies with a Fully Coupled Model. Journal of Physical Oceanography, 2013, 43, 2200-2210.	1.7	10
50	Channelized Ice Melting in the Ocean Boundary Layer Beneath Pine Island Glacier, Antarctica. Science, 2013, 341, 1236-1239.	12.6	95
51	Intrusion of warm surface water beneath the McMurdo Ice Shelf, Antarctica. Journal of Geophysical Research: Oceans, 2013, 118, 7036-7048.	2.6	40
52	Ice-shelf basal channels in a coupled ice/ocean model. Journal of Glaciology, 2012, 58, 1227-1244.	2.2	76
53	Characteristics of ocean waters reaching Greenland's glaciers. Annals of Glaciology, 2012, 53, 202-210.	1.4	194
54	Ice-Sheet Response to Oceanic Forcing. Science, 2012, 338, 1172-1176.	12.6	197

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55	A comparison of the Jacobian-free Newton–Krylov method and the EVP model for solving the sea ice momentum equation with a viscous-plastic formulation: A serial algorithm study. Journal of Computational Physics, 2012, 231, 5926-5944.	3.8	46
56	Recent Advances in Arctic Ocean Studies Employing Models from the Arctic Ocean Model Intercomparison Project. Oceanography, 2011, 24, 102-113.	1.0	49
57	Implementation of the Jacobian-free Newton–Krylov method for solving the first-order ice sheet momentum balance. Journal of Computational Physics, 2011, 230, 6531-6545.	3.8	19
58	Ross ice shelf cavity circulation, residence time, and melting: Results from a model of oceanic chlorofluorocarbons. Continental Shelf Research, 2010, 30, 733-742.	1.8	21
59	Modeling Landfast Sea Ice by Adding Tensile Strength. Journal of Physical Oceanography, 2010, 40, 185-198.	1.7	38
60	Initial effects of oceanic warming on a coupled ocean–ice shelf–ice stream system. Earth and Planetary Science Letters, 2009, 287, 483-487.	4.4	22
61	A Community Ice Sheet Model for Sea Level Prediction: Building a Next-Generation Community Ice Sheet Model; Los Alamos, New Mexico, 18–20 August 2008. Eos, 2009, 90, 23.	0.1	27
62	Modelling Circumpolar Deep Water intrusions on the Amundsen Sea continental shelf, Antarctica. Geophysical Research Letters, 2008, 35, .	4.0	326
63	Acceleration of Jakobshavn IsbræÂtriggered by warm subsurface ocean waters. Nature Geoscience, 2008, 1, 659-664.	12.9	716
64	The Response of Ice Shelf Basal Melting to Variations in Ocean Temperature. Journal of Climate, 2008, 21, 2558-2572.	3.2	229
65	A 1-D elastic–plastic sea-ice model solved with an implicit Eulerian–Lagrangian method. Ocean Modelling, 2007, 17, 1-27.	2.4	4
66	A two-dimensional coupled model for ice shelf–ocean interaction. Ocean Modelling, 2007, 17, 123-139.	2.4	29
67	An energy-diagnostics intercomparison of coupled ice-ocean Arctic models. Ocean Modelling, 2006, 11, 1-27.	2.4	7
68	Modelling the ocean circulation beneath the Ross Ice Shelf. Antarctic Science, 2003, 15, 13-23.	0.9	74
69	Internal hydraulic jumps and mixing in two-layer flows. Journal of Fluid Mechanics, 2002, 470, 63-83.	3.4	37
70	Adaptation of an Isopycnic Coordinate Ocean Model for the Study of Circulation beneath Ice Shelves. Monthly Weather Review, 2001, 129, 1905-1927.	1.4	63
71	An Impact of Subgrid-Scale Ice–Ocean Dynamics on Sea-Ice Cover. Journal of Climate, 2001, 14, 1585-1601.	3.2	15
72	The Role of Meltwater Advection in the Formulation of Conservative Boundary Conditions at an Ice–Ocean Interface. Journal of Physical Oceanography, 2001, 31, 285-296.	1.7	58

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73	Explaining the Weddell Polynyaa Large Ocean Eddy Shed at Maud Rise. Science, 2001, 292, 1697-1700.	12.6	90
74	Transient sea-ice polynya forced by oceanic flow variability. Progress in Oceanography, 2000, 48, 403-460.	3.2	13
75	Modeling Thermodynamic Ice–Ocean Interactions at the Base of an Ice Shelf. Journal of Physical Oceanography, 1999, 29, 1787-1800.	1.7	440
76	An investigation of the general circulation of the Arctic Ocean using an isopycnal model. Tellus, Series A: Dynamic Meteorology and Oceanography, 1996, 48, 138-157.	1.7	10
77	A Numerical Method for Solving the Forced Baroclinic Coastal-Trapped Wave Problem of General Form. Journal of Atmospheric and Oceanic Technology, 1987, 4, 220-226.	1.3	9
78	A meandering polar jet caused the development of a Saharan cyclone and the transport of dust toward Greenland. Advances in Science and Research, 0, 16, 49-56.	1.0	16