Paul R Holland

List of Publications by Year
in descending order

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43 papers	3,242 citations	186265 28 h-index	254184 43 g-index
43 all docs	43 docs citations	43 times ranked	3024 citing authors

#	Article	IF	Citations
1	Wind-driven trends in Antarctic sea-ice drift. Nature Geoscience, 2012, 5, 872-875.	12.9	468
2	Strong Sensitivity of Pine Island Ice-Shelf Melting to Climatic Variability. Science, 2014, 343, 174-178.	12.6	333
3	The Response of Ice Shelf Basal Melting to Variations in Ocean Temperature. Journal of Climate, 2008, 21, 2558-2572.	3.2	229
4	Water-mass transformation by sea ice in the upper branch of the Southern OceanÂoverturning. Nature Geoscience, 2016, 9, 596-601.	12.9	199
5	West Antarctic ice loss influenced by internal climate variability and anthropogenic forcing. Nature Geoscience, 2019, 12, 718-724.	12.9	157
6	Marine ice in Larsen Ice Shelf. Geophysical Research Letters, 2009, 36, .	4.0	122
7	Numerical modeling of oceanâ€ice interactions under Pine Island Bay's ice shelf. Journal of Geophysical Research, 2007, 112, .	3.3	117
8	The seasonality of Antarctic sea ice trends. Geophysical Research Letters, 2014, 41, 4230-4237.	4.0	115
9	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
10	Ice and ocean processes in the Bellingshausen Sea, Antarctica. Journal of Geophysical Research, 2010, 115, .	3.3	104
11	Tropical teleconnection impacts on Antarctic climate changes. Nature Reviews Earth & Environment, 2021, 2, 680-698.	29.7	85
12	Modeled Trends in Antarctic Sea Ice Thickness. Journal of Climate, 2014, 27, 3784-3801.	3.2	78
13	Rapid sea-level rise along the Antarctic margins inÂresponse to increased glacial discharge. Nature Geoscience, 2014, 7, 732-735.	12.9	78
14	Ice-shelf basal channels in a coupled ice/ocean model. Journal of Glaciology, 2012, 58, 1227-1244.	2.2	76
15	Recent recovery of Antarctic Bottom Water formation in the Ross Sea driven by climate anomalies. Nature Geoscience, 2020, 13, 780-786.	12.9	70
16	Variability of the Ross Gyre, Southern Ocean: Drivers and Responses Revealed by Satellite Altimetry. Geophysical Research Letters, 2018, 45, 6195-6204.	4.0	58
17	Decadal Freshening of the Antarctic Bottom Water Exported from the Weddell Sea. Journal of Climate, 2013, 26, 8111-8125.	3.2	57
18	The Arctic sea ice cover of 2016: aÂyear of record-low highs and higher-than-expected lows. Cryosphere, 2018, 12, 433-452.	3.9	56

#	Article	IF	Citations
19	Impact of Atmospheric Forcing on Antarctic Continental Shelf Water Masses. Journal of Physical Oceanography, 2013, 43, 920-940.	1.7	51
20	The Effects of Rotation and Ice Shelf Topography on Frazil-Laden Ice Shelf Water Plumes. Journal of Physical Oceanography, 2006, 36, 2312-2327.	1.7	50
21	The effect of basal channels on oceanic iceâ€shelf melting. Journal of Geophysical Research: Oceans, 2013, 118, 6951-6964.	2.6	49
22	Oceanographic Controls on the Variability of Iceâ€Shelf Basal Melting and Circulation of Glacial Meltwater in the Amundsen Sea Embayment, Antarctica. Journal of Geophysical Research: Oceans, 2017, 122, 10131-10155.	2.6	49
23	Two-timescale response of a large Antarctic ice shelf to climate change. Nature Communications, 2021, 12, 1991.	12.8	45
24	Model sensitivity of the Weddell and Ross seas, Antarctica, to vertical mixing and freshwater forcing. Ocean Modelling, 2015, 94, 141-152.	2.4	40
25	The thermodynamic balance of the Weddell Gyre. Geophysical Research Letters, 2016, 43, 317-325.	4.0	38
26	Observed Concentration Budgets of Arctic and Antarctic Sea Ice. Journal of Climate, 2016, 29, 5241-5249.	3.2	37
27	Eddy-Driven Exchange between the Open Ocean and a Subâ€“Ice Shelf Cavity. Journal of Physical Oceanography, 2013, 43, 2372-2387.	1.7	34
28	Sea-Level Rise: From Global Perspectives to Local Services. Frontiers in Marine Science, 2022, 8, .	2.5	33
29	Simulated Twentiethâ€Century Ocean Warming in the Amundsen Sea, West Antarctica. Geophysical Research Letters, 2022, 49, .	4.0	31
30	Wind-Driven Processes Controlling Oceanic Heat Delivery to the Amundsen Sea, Antarctica. Journal of Physical Oceanography, 2019, 49, 2829-2849.	1.7	28
31	The Effects of Enhanced Sea Ice Export from the Ross Sea on Recent Cooling and Freshening of the Southeast Pacific. Journal of Climate, 2019, 32, 2013-2035.	3.2	28
32	The impacts of El NiÃ±o on the observed sea ice budget of West Antarctica. Geophysical Research Letters, 2017, 44, 6200-6208.	4.0	27
33	A model of tidally dominated ocean processes near ice shelf grounding lines. Journal of Geophysical Research, 2008, 113, .	3.3	26
34	Control of the Oceanic Heat Content of the Getzâ€Dotson Trough, Antarctica, by the Amundsen Sea Low. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016113.	2.6	23
35	Oceanâ€Forced Iceâ€Shelf Thinning in a Synchronously Coupled Iceâ€Ocean Model. Journal of Geophysical Research: Oceans, 2018, 123, 864-882.	2.6	22
36	Adaptation of an unstructured-mesh, finite-element ocean model to the simulation of ocean circulation beneath ice shelves. Ocean Modelling, 2013, 67, 39-51.	2.4	21

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37	The Impact of the Amundsen Sea Freshwater Balance on Ocean Melting of the West Antarctic Ice Sheet. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016305.	2.6	20
38	Remote Control of Filchnerâ€Ronne Ice Shelf Melt Rates by the Antarctic Slope Current. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016550.	2.6	19
39	Coupling the U.K. Earth System Model to Dynamic Models of the Greenland and Antarctic Ice Sheets. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002520.	3.8	19
40	The Transient Response of Ice Shelf Melting to Ocean Change. Journal of Physical Oceanography, 2017, 47, 2101-2114.	1.7	18
41	Sources, variability and fate of freshwater in the Bellingshausen Sea, Antarctica. Deep-Sea Research Part I: Oceanographic Research Papers, 2018, 133, 59-71.	1.4	14
42	Responses of sub-ice platelet layer thickening rate and frazil-ice concentration to variations in ice-shelf water supercooling in McMurdo Sound, Antarctica. Cryosphere, 2019, 13, 265-280.	3.9	8
43	Sensitivity of Melting, Freezing and Marine Ice Beneath Larsen C Ice Shelf to Changes in Ocean Forcing. Geophysical Research Letters, 2022, 49, .	4.0	4