Michael Meredith

List of Publications by Year
in descending order

188 papers	11,927 citations	30070 54 h-index	33894 99 g-index
199 all docs	199 docs citations	199 times ranked	9598 citing authors

#	Article	IF	Citations
1	Rapid climate change in the ocean west of the Antarctic Peninsula during the second half of the 20th century. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	669
2	The large-scale freshwater cycle of the Arctic. Journal of Geophysical Research, 2006, 111, .	3.3	478
3	Climate change and Southern Ocean ecosystems I: how changes in physical habitats directly affect marine biota. Global Change Biology, 2014, 20, 3004-3025.	9.5	448
4	Antarctic climate change and the environment: an update. Polar Record, 2014, 50, 237-259.	0.8	411
5	Nonâ€annular atmospheric circulation change induced by stratospheric ozone depletion and its role in the recent increase of Antarctic sea ice extent. Geophysical Research Letters, 2009, 36, .	4.0	410
6	Ocean forcing of glacier retreat in the western Antarctic Peninsula. Science, 2016, 353, 283-286.	12.6	346
7	Climate change and the marine ecosystem of the western Antarctic Peninsula. Philosophical Transactions of the Royal Society B: Biological Sciences, 2007, 362, 149-166.	4.0	343
8	How Do Polar Marine Ecosystems Respond to Rapid Climate Change?. Science, 2010, 328, 1520-1523.	12.6	310
9	Spatial and temporal operation of the Scotia Sea ecosystem: a review of large-scale links in a krill centred food web. Philosophical Transactions of the Royal Society B: Biological Sciences, 2007, 362, 113-148.	4.0	298
10	Circumpolar response of Southern Ocean eddy activity to a change in the Southern Annular Mode. Geophysical Research Letters, 2006, 33, .	4.0	277
11	West Antarctic Peninsula: An Ice-Dependent Coastal Marine Ecosystem in Transition. Oceanography, 2013, 26, 190-203.	1.0	249
12	State of the Antarctic and Southern Ocean climate system. Reviews of Geophysics, 2009, 47, .	23.0	190
13	Drake Passage and Cenozoic climate: An open and shut case?. Geochemistry, Geophysics, Geosystems, 2007, 8, n/a-n/a.	2.5	178
14	Seasonal and interannual variability in temperature, chlorophyll and macronutrients in northern Marguerite Bay, Antarctica. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 1988-2006.	1.4	160
15	Climatically driven fluctuations in Southern Ocean ecosystems. Proceedings of the Royal Society B: Biological Sciences, 2007, 274, 3057-3067.	2.6	148
16	Technical Note: Animal-borne CTD-Satellite Relay Data Loggers for real-time oceanographic data collection. Ocean Science, 2009, 5, 685-695.	3.4	146
17	Wintertime controls on summer stratification and productivity at the western Antarctic Peninsula. Limnology and Oceanography, 2013, 58, 1035-1047.	3.1	139
18	State of the Climate in 2016. Bulletin of the American Meteorological Society, 2017, 98, Si-S280.	3.3	132

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19	Eddy Heat Flux in the Southern Ocean: Response to Variable Wind Forcing. Journal of Climate, 2008, 21, 608-620.	3.2	126
20	SUSTAINED MONITORING OF THE SOUTHERN OCEAN AT DRAKE PASSAGE: PAST ACHIEVEMENTS AND FUTURE PRIORITIES. Reviews of Geophysics, 2011, 49, .	23.0	121
21	Recent trends in the <scp>S</scp>outhern <scp>O</scp>cean eddy field. Journal of Geophysical Research: Oceans, 2015, 120, 257-267.	2.6	120
22	Sensitivity of the Overturning Circulation in the Southern Ocean to Decadal Changes in Wind Forcing. Journal of Climate, 2012, 25, 99-110.	3.2	115
23	Changes in the ocean transport through Drake Passage during the 1980s and 1990s, forced by changes in the Southern Annular Mode. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	112
24	Rates and mechanisms of turbulent dissipation and mixing in the Southern Ocean: Results from the Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean (DIMES). Journal of Geophysical Research: Oceans, 2013, 118, 2774-2792.	2.6	112
25	Chapter 1 Impacts of the Oceans on Climate Change. Advances in Marine Biology, 2009, 56, 1-150.	1.4	110
26	The Weddell Gyre, Southern Ocean: Present Knowledge and Future Challenges. Reviews of Geophysics, 2019, 57, 623-708.	23.0	105
27	Variability and change in the west Antarctic Peninsula marine system: Research priorities and opportunities. Progress in Oceanography, 2019, 173, 208-237.	3.2	102
28	Variability in the freshwater balance of northern Marguerite Bay, Antarctic Peninsula: Results from Î´18O. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 309-322.	1.4	100
29	Shelfâ€“ocean exchange and hydrography west of the Antarctic Peninsula: a review. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170164.	3.4	93
30	Interannual variability in phytoplankton biomass and species composition in northern Marguerite Bay (West Antarctic Peninsula) is governed by both winter sea ice cover and summer stratification. Limnology and Oceanography, 2017, 62, 235-252.	3.1	87
31	Spatial variation in seabed temperatures in the Southern Ocean: Implications for benthic ecology and biogeography. Journal of Geophysical Research, 2009, 114, .	3.3	84
32	The impact of changes in sea ice advance on the large winter warming on the western Antarctic Peninsula. International Journal of Climatology, 2013, 33, 852-861.	3.5	84
33	OceanGliders: A Component of the Integrated GOOS. Frontiers in Marine Science, 2019, 6, .	2.5	83
34	On the sources of Weddell Gyre Antarctic Bottom Water. Journal of Geophysical Research, 2000, 105, 1093-1104.	3.3	81
35	Coherence of Antarctic sea levels, Southern Hemisphere Annular Mode, and flow through Drake Passage. Geophysical Research Letters, 2003, 30, .	4.0	78
36	On the interannual variability of ocean temperatures around South Georgia, Southern Ocean: Forcing by El NiÃ±o/Southern Oscillation and the Southern Annular Mode. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 2007-2022.	1.4	78

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37	Rapid sea-level rise along the Antarctic margins inÂresponse to increased glacial discharge. Nature Geoscience, 2014, 7, 732-735.	12.9	78
38	State of the Climate in 2014. Bulletin of the American Meteorological Society, 2015, 96, ES1-ES32.	3.3	78
39	The oxygen isotope composition of water masses in the northern North Atlantic. Deep-Sea Research Part I: Oceanographic Research Papers, 2000, 47, 2265-2286.	1.4	74
40	Evolution of the Deep and Bottom Waters of the Scotia Sea, Southern Ocean, during 1995â€“2005*. Journal of Climate, 2008, 21, 3327-3343.	3.2	70
41	Shifts in coastal Antarctic marine microbial communities during and after melt water-related surface stratification. FEMS Microbiology Ecology, 2011, 76, 413-427.	2.7	69
42	The Freshwater System West of the Antarctic Peninsula: Spatial and Temporal Changes. Journal of Climate, 2013, 26, 1669-1684.	3.2	68
43	Fronts and habitat zones in the Scotia Sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 2012, 59-60, 14-24.	1.4	67
44	Delivering Sustained, Coordinated, and Integrated Observations of the Southern Ocean for Global Impact. Frontiers in Marine Science, 2019, 6, .	2.5	67
45	Antarctic Circumpolar Current frontal system in the South Atlantic: Monitoring using merged Argo and animalâ€borne sensor data. Journal of Geophysical Research, 2008, 113, .	3.3	66
46	Variability of Antarctic circumpolar transport and the Southern Annular Mode associated with the Madden-Julian Oscillation. Geophysical Research Letters, 2004, 31, .	4.0	64
47	An anticyclonic circulation above the Northwest Georgia Rise, Southern Ocean. Geophysical Research Letters, 2003, 30, .	4.0	61
48	Rapid cross-density ocean mixing at mid-depths in the Drake Passage measured by tracer release. Nature, 2013, 501, 408-411.	27.8	61
49	The contribution of the Weddell Gyre to the lower limb of the Global Overturning Circulation. Journal of Geophysical Research: Oceans, 2014, 119, 3357-3377.	2.6	61
50	Impact of the 1997/98 ENSO on upper ocean characteristics in Marguerite Bay, western Antarctic Peninsula. Journal of Geophysical Research, 2004, 109, .	3.3	60
51	Changes in the freshwater composition of the upper ocean west of the Antarctic Peninsula during the first decade of the 21st century. Progress in Oceanography, 2010, 87, 127-143.	3.2	60
52	Comparative roles of upwelling and glacial iron sources in Ryder Bay, coastal western Antarctic Peninsula. Marine Chemistry, 2015, 176, 21-33.	2.3	60
53	Controls on dissolved and particulate iron distributions in surface waters of the Western Antarctic Peninsula shelf. Marine Chemistry, 2017, 196, 81-97.	2.3	60
54	Rapid mixing and exchange of deep-ocean waters in an abyssal boundary current. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13233-13238.	7.1	59

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55	Future Risk for Southern Ocean Ecosystem Services Under Climate Change. Frontiers in Marine Science, 2021, 7, .	2.5	59
56	Quantitative considerations of dissolved barium as a tracer in the Arctic Ocean. Journal of Geophysical Research, 2003, 108, .	3.3	58
57	Variability of the Ross Gyre, Southern Ocean: Drivers and Responses Revealed by Satellite Altimetry. Geophysical Research Letters, 2018, 45, 6195-6204.	4.0	58
58	Decadal Freshening of the Antarctic Bottom Water Exported from the Weddell Sea. Journal of Climate, 2013, 26, 8111-8125.	3.2	57
59	Freshwater fluxes through the Western Fram Strait. Geophysical Research Letters, 2001, 28, 1615-1618.	4.0	56
60	Southern Antarctic Circumpolar Current Front to the northeast of South Georgia: Horizontal advection of krill and its role in the ecosystem. Journal of Geophysical Research, 2004, 109, .	3.3	54
61	Minimal change in Antarctic Circumpolar Current flow speed between the last glacial and Holocene. Nature Geoscience, 2014, 7, 113-116.	12.9	54
62	Changing distributions of sea ice melt and meteoric water west of the Antarctic Peninsula. Deep-Sea Research Part II: Topical Studies in Oceanography, 2017, 139, 40-57.	1.4	54
63	Distribution of oxygen isotopes in the water masses of Drake Passage and the South Atlantic. Journal of Geophysical Research, 1999, 104, 20949-20962.	3.3	53
64	Southern ACC Front to the northeast of South Georgia: Pathways, characteristics, and fluxes. Journal of Geophysical Research, 2003, 108, .	3.3	52
65	Variability in hydrographic conditions to the east and northwest of South Georgia, 1996â€“2001. Journal of Marine Systems, 2005, 53, 143-167.	2.1	52
66	A â€˜shallow bathtub ringâ€™ of local sedimentary iron input maintains the Palmer Deep biological hotspot on the West Antarctic Peninsula shelf. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170171.	3.4	52
67	Survival in macaroni penguins and the relative importance of different drivers: individual traits, predation pressure and environmental variability. Journal of Animal Ecology, 2014, 83, 1057-1067.	2.8	51
68	Eddy-induced variability in Southern Ocean abyssal mixing on climatic timescales. Nature Geoscience, 2014, 7, 577-582.	12.9	51
69	Coherent sea-level fluctuations along the global continental slope. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 885-901.	3.4	49
70	Seasonal and interannual variation of dissolved iodine speciation at a coastal Antarctic site. Marine Chemistry, 2010, 118, 171-181.	2.3	49
71	Ocean acidification and calcium carbonate saturation states in the coastal zone of the West Antarctic Peninsula. Deep-Sea Research Part II: Topical Studies in Oceanography, 2017, 139, 181-194.	1.4	49
72	Freshwater distributions and water mass structure in the Amundsen Sea Polynya region, Antarctica. Elementa, 2015, 3, .	3.2	48

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73	Climate forcing for dynamics of dissolved inorganic nutrients at Palmer Station, Antarctica: An interdecadal (1993â€“2013) analysis. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2369-2389.	3.0	47
74	Oceanography and life history predict contrasting genetic population structure in two <scp>A</scp>ntarctic fish species. Evolutionary Applications, 2015, 8, 486-509.	3.1	46
75	Sources and fate of freshwater exported in the East Greenland Current. Geophysical Research Letters, 2009, 36, .	4.0	45
76	Penguin Biogeography Along the West Antarctic Peninsula: Testing the Canyon Hypothesis with Palmer LTER Observationsf. Oceanography, 2013, 26, 204-206.	1.0	45
77	The Southern Antarctic Circumpolar Current Front: physical and biological coupling at South Georgia. Deep-Sea Research Part I: Oceanographic Research Papers, 2002, 49, 2183-2202.	1.4	44
78	Macronutrient supply, uptake and recycling in the coastal ocean of the west Antarctic Peninsula. Deep-Sea Research Part II: Topical Studies in Oceanography, 2017, 139, 58-76.	1.4	44
79	Inter-decadal variability of phytoplankton biomass along the coastal West Antarctic Peninsula. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170174.	3.4	44
80	Monitoring Drake Passage with elephant seals: Frontal structures and snapshots of transport. Limnology and Oceanography, 2008, 53, 2350-2360.	3.1	43
81	On the structure, paths, and fluxes associated with Agulhas rings. Journal of Geophysical Research, 1999, 104, 21007-21020.	3.3	42
82	Tracerâ€derived freshwater composition of the Siberian continental shelf and slope following the extreme Arctic summer of 2007. Geophysical Research Letters, 2009, 36, .	4.0	42
83	Primary production export flux in Marguerite Bay (Antarctic Peninsula): Linking upper water-column production to sediment trap flux. Deep-Sea Research Part I: Oceanographic Research Papers, 2013, 75, 52-66.	1.4	42
84	Windâ€controlled export of Antarctic Bottom Water from the Weddell Sea. Geophysical Research Letters, 2010, 37, .	4.0	41
85	Remotely induced warming of Antarctic Bottom Water in the eastern Weddell gyre. Geophysical Research Letters, 2013, 40, 2755-2760.	4.0	41
86	Feedbacks between ice cover, ocean stratification, and heat content in Ryder Bay, western Antarctic Peninsula. Journal of Geophysical Research: Oceans, 2014, 119, 5323-5336.	2.6	41
87	The seasonal cycle of oceanâ€atmosphere CO₂ flux in Ryder Bay, west Antarctic Peninsula. Geophysical Research Letters, 2015, 42, 2934-2942.	4.0	41
88	Ice melt influence on summertime net community production along the Western Antarctic Peninsula. Deep-Sea Research Part II: Topical Studies in Oceanography, 2017, 139, 89-102.	1.4	41
89	The vision for a Southern Ocean Observing System. Current Opinion in Environmental Sustainability, 2013, 5, 306-313.	6.3	40
90	Synchronous intensification and warming of Antarctic Bottom Water outflow from the Weddell Gyre. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	39

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91	A test of the ability of TOPEX/POSEIDON to monitor flows through the Drake Passage. Journal of Geophysical Research, 1996, 101, 11935-11947.	3.3	38
92	The thermodynamic balance of the Weddell Gyre. Geophysical Research Letters, 2016, 43, 317-325.	4.0	38
93	The flow of the Antarctic Circumpolar Current over the North Scotia Ridge. Deep-Sea Research Part I: Oceanographic Research Papers, 2010, 57, 14-28.	1.4	36
94	The seasonal cycle of carbonate system processes in Ryder Bay, West Antarctic Peninsula. Deep-Sea Research Part II: Topical Studies in Oceanography, 2017, 139, 167-180.	1.4	36
95	Anatomy of a glacial meltwater discharge event in an Antarctic cove. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170163.	3.4	36
96	Advective pathways near the tip of the Antarctic Peninsula: Trends, variability and ecosystem implications. Deep-Sea Research Part I: Oceanographic Research Papers, 2012, 63, 91-101.	1.4	35
97	Stabilization of dense Antarctic water supply to the Atlantic Ocean overturning circulation. Nature Climate Change, 2019, 9, 742-746.	18.8	35
98	Seasonal evolution of the upper-ocean adjacent to the South Orkney Islands, Southern Ocean: Results from a â€œlazy biological mooringâ€• Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 1569-1579.	1.4	34
99	The biogeochemical impact of glacial meltwater from Southwest Greenland. Progress in Oceanography, 2019, 176, 102126.	3.2	34
100	Abrupt changes in high-latitude nutrient supply to the Atlantic during the last glacial cycle. Geology, 2012, 40, 123-126.	4.4	33
101	Phyto- and zooplankton community structure and production around South Georgia (Southern) Tj ETQq1 1 0.784314 rgBT /Overlock 1 421-441.	1.4	32
102	Remote and Local Forcing in the Brazilâ€“Malvinas Region. Journal of Physical Oceanography, 2001, 31, 892-913.	1.7	31
103	Extreme spikes in DMS flux double estimates of biogenic sulfur export from the Antarctic coastal zone to the atmosphere. Scientific Reports, 2019, 9, 2233.	3.3	31
104	On the temporal variability of the transport through Drake Passage. Journal of Geophysical Research, 1996, 101, 22485-22494.	3.3	30
105	Deep and Bottom Waters in the Eastern Scotia Sea: Rapid Changes in Properties and Circulation. Journal of Physical Oceanography, 2001, 31, 2157-2168.	1.7	30
106	High-resolution modelling of the shelf and open ocean adjacent to South Georgia, Southern Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 1540-1552.	1.4	30
107	The Southern Ocean Observing System. Oceanography, 2012, 25, 68-69.	1.0	30
108	On the characteristics of internal tides and coastal upwelling behaviour in Marguerite Bay, west Antarctic Peninsula. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 2023-2040.	1.4	29

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109	On the response of the Antarctic Circumpolar Current transport to climate change in coupled climate models. Journal of Geophysical Research, 2011, 116, .	3.3	29
110	Formation and circulation of the water masses between the southern Indian Ocean and Antarctica: Results from Î´¹⁸O. Journal of Marine Research, 1999, 57, 449-470.	0.3	28
111	Circulation, retention, and mixing of waters within the <scp>W</scp>eddellâ€<scp>S</scp>cotia <scp>C</scp>onfluence, <scp>S</scp>outhern <scp>O</scp>cean: The role of stratified <scp>T</scp>aylor columns. Journal of Geophysical Research: Oceans, 2015, 120, 547-562.	2.6	28
112	Marine studies at the western Antarctic Peninsula: Priorities, progress and prognosis. Deep-Sea Research Part II: Topical Studies in Oceanography, 2017, 139, 1-8.	1.4	28
113	Drivers of interannual variability in virioplankton abundance at the coastal western <scp>A</scp>ntarctic peninsula and the potential effects of climate change. Environmental Microbiology, 2017, 19, 740-755.	3.8	27
114	Densityâ€driven Southern Hemisphere subpolar gyres in coupled climate models. Geophysical Research Letters, 2008, 35, .	4.0	26
115	Replenishing the abyss. Nature Geoscience, 2013, 6, 166-167.	12.9	26
116	Modification of deep waters in Marguerite Bay, western Antarctic Peninsula, caused by topographic overflows. Deep-Sea Research Part II: Topical Studies in Oceanography, 2017, 139, 9-17.	1.4	25
117	Reframing the carbon cycle of the subpolar Southern Ocean. Science Advances, 2019, 5, eaav6410.	10.3	25
118	Enhanced glacial discharge from the eastern Antarctic Peninsula since the 1700s associated with a positive Southern Annular Mode. Scientific Reports, 2019, 9, 14606.	3.3	25
119	Modification of turbulent dissipation rates by a deep Southern Ocean eddy. Geophysical Research Letters, 2015, 42, 3450-3457.	4.0	24
120	Carbon dynamics of the Weddell Gyre, Southern Ocean. Global Biogeochemical Cycles, 2015, 29, 288-306.	4.9	24
121	Decline in plankton diversity and carbon flux with reduced sea ice extent along the Western Antarctic Peninsula. Nature Communications, 2021, 12, 4948.	12.8	24
122	On the use of carbon tetrachloride as a transient tracer of Weddell Sea deep and bottom waters. Geophysical Research Letters, 1996, 23, 2943-2946.	4.0	22
123	Chlorofluorocarbon-derived formation rates of the deep and bottom waters of the Weddell Sea. Journal of Geophysical Research, 2001, 106, 2899-2919.	3.3	22
124	Use of radium isotopes to estimate mixing rates and trace sediment inputs to surface waters in northern Marguerite Bay, Antarctic Peninsula. Antarctic Science, 2013, 25, 445-456.	0.9	22
125	Summer microbial community composition governed by upper-ocean stratification and nutrient availability in northern Marguerite Bay, Antarctica. Deep-Sea Research Part II: Topical Studies in Oceanography, 2017, 139, 151-166.	1.4	22
126	Impact of sea-ice melt on dimethyl sulfide (sulfoniopropionate) inventories in surface waters of Marguerite Bay, West Antarctic Peninsula. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170169.	3.4	22

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127	Estimating the recharge properties of the deep ocean using noble gases and helium isotopes. Journal of Geophysical Research: Oceans, 2016, 121, 5959-5979.	2.6	21
128	Sweepstake reproductive success and collective dispersal produce chaotic genetic patchiness in a broadcast spawner. Science Advances, 2021, 7, eabj4713.	10.3	21
129	Physical and behavioural influences on larval fish retention: contrasting patterns in two Antarctic fishes. Marine Ecology - Progress Series, 2012, 465, 201-215.	1.9	21
130	Sea level changes at Port Stanley, Falkland Islands. Journal of Geophysical Research, 2005, 110, .	3.3	20
131	Temperature signature of high latitude Atlantic boundary currents revealed by marine mammalâ€borne sensor and Argo data. Geophysical Research Letters, 2011, 38, .	4.0	20
132	Windâ€driven export of <scp>W</scp>eddell <scp>S</scp>ea slope water. Journal of Geophysical Research: Oceans, 2016, 121, 7530-7546.	2.6	20
133	Characteristics of the modelled meteoric freshwater budget of the western Antarctic Peninsula. Deep-Sea Research Part II: Topical Studies in Oceanography, 2017, 139, 31-39.	1.4	20
134	Macronutrient and carbon supply, uptake and cycling across the Antarctic Peninsula shelf during summer. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170168.	3.4	20
135	Phased Response of the Subpolar Southern Ocean to Changes in Circumpolar Winds. Geophysical Research Letters, 2019, 46, 6024-6033.	4.0	20
136	Climateâ€induced change in biogenic bromine emissions from the Antarctic marine biosphere. Global Biogeochemical Cycles, 2012, 26, .	4.9	19
137	Understanding the structure of changes in the Southern Ocean eddy field. Geophysical Research Letters, 2016, 43, 5829-5832.	4.0	19
138	Controls on turbulent mixing on the West Antarctic Peninsula shelf. Deep-Sea Research Part II: Topical Studies in Oceanography, 2017, 139, 18-30.	1.4	19
139	Downslope convection north of Elephant Island, Antarctica: Influence on deep waters and dependence on ENSO. Geophysical Research Letters, 2003, 30, .	4.0	18
140	The role of sea ice formation in cycling of aluminium in northern Marguerite Bay, Antarctica. Estuarine, Coastal and Shelf Science, 2010, 87, 103-112.	2.1	18
141	Stepping stones to isolation: Impacts of a changing climate on the connectivity of fragmented fish populations. Evolutionary Applications, 2018, 11, 978-994.	3.1	18
142	On the wind-forcing of bottom pressure variability at Amsterdam and Kerguelen Islands, southern Indian Ocean. Journal of Geophysical Research, 2004, 109, .	3.3	17
143	Dense waters of the Weddell and Scotia Seas: recent changes in properties and circulation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130041.	3.4	17
144	The role of ocean dynamics in king penguin range estimation. Nature Climate Change, 2019, 9, 120-121.	18.8	17

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145	Impact of ocean acidification and high solar radiation on productivity and species composition of a late summer phytoplankton community of the coastal Western Antarctic Peninsula. Limnology and Oceanography, 2019, 64, 1716-1736.	3.1	17
146	On the sampling timescale required to reliably monitor interannual variability in the Antarctic circumpolar transport. Geophysical Research Letters, 2005, 32, .	4.0	15
147	The summertime plankton community at South Georgia (Southern Ocean): Comparing the historical (1926/1927) and modern (post 1995) records. Progress in Oceanography, 2008, 78, 241-256.	3.2	15
148	Silicon isotope and silicic acid uptake in surface waters of Marguerite Bay, West Antarctic Peninsula. Deep-Sea Research Part II: Topical Studies in Oceanography, 2017, 139, 143-150.	1.4	15
149	Topographic Control of Southern Ocean Gyres and the Antarctic Circumpolar Current: A Barotropic Perspective. Journal of Physical Oceanography, 2019, 49, 3221-3244.	1.7	15
150	Utilising IPCC assessments to support the ecosystem approach to fisheries management within a warming Southern Ocean. Marine Policy, 2021, 131, 104589.	3.2	15
151	Freshwater Fluxes East of Greenland. , 2008, , 263-287.		15
152	Seasonal variability of the warm Atlantic water layer in the vicinity of the Greenland shelf break. Geophysical Research Letters, 2014, 41, 8530-8537.	4.0	14
153	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
154	Shift from Carbon Flow through the Microbial Loop to the Viral Shunt in Coastal Antarctic Waters during Austral Summer. Microorganisms, 2021, 9, 460.	3.6	14
155	Theory and observations of Ekman flux in the chlorophyll distribution downstream of South Georgia. Geophysical Research Letters, 2009, 36, .	4.0	13
156	Assessing Drivers of Coastal Primary Production in Northern Marguerite Bay, Antarctica. Frontiers in Marine Science, 2017, 4, .	2.5	13
157	The marine system of the West Antarctic Peninsula: status and strategy for progress. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170179.	3.4	13
158	Evidences of strong sources of DFe and DMn in Ryder Bay, Western Antarctic Peninsula. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170172.	3.4	13
159	Ventilation of the abyss in the Atlantic sector of the Southern Ocean. Scientific Reports, 2021, 11, 6760.	3.3	13
160	Freshwater fluxes in the Weddell Gyre: results from Î´ ¹⁸ O. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130298.	3.4	12
161	Modeling the Impact of Ocean Circulation on Chlorophyll Blooms Around South Georgia, Southern Ocean. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016391.	2.6	12
162	Dense bottom layers in the Scotia Sea, Southern Ocean: Creation, lifespan, and destruction. Geophysical Research Letters, 2013, 40, 933-936.	4.0	11

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163	Boundary mixing in <scp>O</scp>rkney <scp>P</scp>assage outflow. Journal of Geophysical Research: Oceans, 2014, 119, 8627-8645.	2.6	11
164	Coastal barium cycling at the West Antarctic Peninsula. Deep-Sea Research Part II: Topical Studies in Oceanography, 2017, 139, 120-131.	1.4	11
165	Temporal variability in foraminiferal morphology and geochemistry at the West Antarctic Peninsula: a sediment trap study. Biogeosciences, 2019, 16, 3267-3282.	3.3	11
166	Gene flow in the Antarctic bivalveAequiyoldia eightsii(Jay, 1839) suggests a role for the Antarctic Peninsula Coastal Current in larval dispersal. Royal Society Open Science, 2020, 7, 200603.	2.4	11
167	Localâ€•and Largeâ€Scale Drivers of Variability in the Coastal Freshwater Budget of the Western Antarctic Peninsula. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017172.	2.6	10
168	Silica cycling and isotopic composition in northern Marguerite Bay on the rapidly-warming western Antarctic Peninsula. Deep-Sea Research Part II: Topical Studies in Oceanography, 2017, 139, 132-142.	1.4	9
169	The Processing and Application of Inverted Echo Sounder Data from Drake Passage. Journal of Atmospheric and Oceanic Technology, 1997, 14, 871-882.	1.3	7
170	The Southern Ocean, carbon and climate. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130057.	3.4	7
171	On the dynamics of flow past a cylinder: Implications for <scp>CTD</scp> package motions and measurements. Journal of Geophysical Research: Oceans, 2017, 122, 5708-5728.	2.6	7
172	Oceanic fronts control the distribution of dissolved barium in the Southern Ocean. Marine Chemistry, 2018, 204, 95-106.	2.3	7
173	The Role of Eddies and Topography in the Export of Shelf Waters From the West Antarctic Peninsula Shelf. Journal of Geophysical Research: Oceans, 2019, 124, 7718-7742.	2.6	7
174	Ocean mixing: oceanography at a watershed. , 2022, , 1-4.		7
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