Andrew Clarke

List of Publications by Year
in descending order

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75 papers	8,841 citations	44069 48 h-index	91884 69 g-index
84 all docs	84 docs citations	84 times ranked	8586 citing authors

#	Article	IF	Citations
1	Scaling of metabolic rate with body mass and temperature in teleost fish. Journal of Animal Ecology, 1999, 68, 893-905.	2.8	1,104
2	Costs and consequences of evolutionary temperature adaptation. Trends in Ecology and Evolution, 2003, 18, 573-581.	8.7	392
3	Climate, energy and diversity. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 2257-2266.	2.6	357
4	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
5	Macrophysiology: A Conceptual Reunification. American Naturalist, 2009, 174, 595-612.	2.1	298
6	The spatial structure of Antarctic biodiversity. Ecological Monographs, 2014, 84, 203-244.	5.4	286
7	How isolated is Antarctica?. Trends in Ecology and Evolution, 2005, 20, 1-3.	8.7	253
8	What Is Cold Adaptation and How Should We Measure It?. American Zoologist, 1991, 31, 81-92.	0.7	249
9	Climate Change and Invasibility of the Antarctic Benthos. Annual Review of Ecology, Evolution, and Systematics, 2007, 38, 129-154.	8.3	248
10	Seasonality in the antarctic marine environment. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1988, 90, 461-473.	0.2	196
11	Evolution and adaptive radiation of antarctic fishes. Trends in Ecology and Evolution, 1996, 11, 212-218.	8.7	188
12	Temperature, metabolic power and the evolution of endothermy. Biological Reviews, 2010, 85, 703-727.	10.4	183
13	Biodiversity and biogeography of Antarctic and sub-Antarctic mollusca. Deep-Sea Research Part II: Topical Studies in Oceanography, 2006, 53, 985-1008.	1.4	175
14	Scaling of basal metabolic rate with body mass and temperature in mammals. Journal of Animal Ecology, 2010, 79, 610-619.	2.8	171
15	Exploring biological constraints on the glacial history of Antarctica. Quaternary Science Reviews, 2009, 28, 3035-3048.	3.0	166
16	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
17	The seasonal cycle of phytoplankton, macronutrients, and the microbial community in a nearshore antarctic marine ecosystem. Limnology and Oceanography, 1996, 41, 1281-1294.	3.1	158
18	Temporal variation in Antarctic sea-ice: analysis of a long term fast-ice record from the South Orkney Islands. Deep-Sea Research Part I: Oceanographic Research Papers, 1995, 42, 1045-1062.	1.4	156

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19	Testing the metabolic theory of ecology. Ecology Letters, 2012, 15, 1465-1474.	6.4	155
20	Population dynamics of marine benthic invertebrates in Antarctic and subantarctic environments: are there unique adaptations?. Antarctic Science, 1993, 5, 253-266.	0.9	144
21	Wintertime controls on summer stratification and productivity at the western Antarctic Peninsula. Limnology and Oceanography, 2013, 58, 1035-1047.	3.1	139
22	Spatial patterns of diversity in the sea: bryozoan species richness in the North Atlantic. Journal of Animal Ecology, 2000, 69, 799-814.	2.8	131
23	Evolution and diversity of the benthic fauna of the Southern Ocean continental shelf. Antarctic Science, 2004, 16, 559-568.	0.9	127
24	LARGE-SCALE BIOGEOGRAPHIC PATTERNS IN MARINE MOLLUSKS: A CONFLUENCE OF HISTORY AND PRODUCTIVITY?. Ecology, 2005, 86, 2288-2297.	3.2	127
25	A Low Temperature Limit for Life on Earth. PLoS ONE, 2013, 8, e66207.	2.5	117
26	Adult Antarctic Krill Feeding at Abyssal Depths. Current Biology, 2008, 18, 282-285.	3.9	116
27	Evolutionary dynamics at high latitudes: speciation and extinction in polar marine faunas. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 3655-3666.	4.0	115
28	Seasonality of feeding activity in Antarctic suspension feeders. Polar Biology, 1995, 15, 335.	1.2	112
29	Spatial and temporal variation in shallow seawater temperatures around Antarctica. Deep-Sea Research Part II: Topical Studies in Oceanography, 2006, 53, 853-865.	1.4	112
30	The thermal limits to life on Earth. International Journal of Astrobiology, 2014, 13, 141-154.	1.6	108
31	How well do we know the Antarctic marine fauna? A preliminary study of macroecological and biogeographical patterns in Southern Ocean gastropod and bivalve molluscs. Diversity and Distributions, 2007, 13, 620-632.	4.1	104
32	Polar marine ecosystems: major threats and future change. Environmental Conservation, 2003, 30, 1-25.	1.3	103
33	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
34	Temperature and extinction in the sea: a physiologist's view. Paleobiology, 1993, 19, 499-518.	2.0	96
35	Antarctic marine benthic diversity: patterns and processes. Journal of Experimental Marine Biology and Ecology, 2008, 366, 48-55.	1.5	93
36	Scaling of body temperature in mammals and birds. Functional Ecology, 2008, 22, 58-67.	3.6	85

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37	The distribution, abundance and seasonality of pelagic marine invertebrate larvae in the maritime Antarctic. Philosophical Transactions of the Royal Society B: Biological Sciences, 1999, 354, 471-484.	4.0	84
38	Spatial variation in seabed temperatures in the Southern Ocean: Implications for benthic ecology and biogeography. Journal of Geophysical Research, 2009, 114, .	3.3	84
39	Seasonal progression of diatom assemblages in surface waters of Ryder Bay, Antarctica. Polar Biology, 2010, 33, 13-29.	1.2	77
40	Ice Scour Disturbance in Antarctic Waters. Science, 2008, 321, 371-371.	12.6	76
41	Quantifying Antarctic marine biodiversity: The SCAR-MarBIN data portal. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 18-29.	1.4	71
42	Diversity, latitude and time: Patterns in the shallow sea. , 1997, , 122-147.		68
43	A unique assemblage of epibenthic sessile suspension feeders with archaic features in the high-Antarctic. Deep-Sea Research Part II: Topical Studies in Oceanography, 2006, 53, 1029-1052.	1.4	68
44	The Freshwater System West of the Antarctic Peninsula: Spatial and Temporal Changes. Journal of Climate, 2013, 26, 1669-1684.	3.2	68
45	Seasonal variation in the feeding activity of four species of Antarctic bryozoan in relation to environmental factors. Journal of Experimental Marine Biology and Ecology, 1994, 181, 117-133.	1.5	63
46	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
47	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
48	Seasonal cycle of seawater bromoform and dibromomethane concentrations in a coastal bay on the western Antarctic Peninsula. Global Biogeochemical Cycles, 2009, 23, .	4.9	58
49	A Comparison of Adaptive Radiations of Antarctic Fish with those of NonAntarctic Fish. , 1998, , 3-26.		57
50	Growth in the limpet Nacella concinna from contrasting sites in Antarctica. Polar Biology, 2004, 28, 62.	1.2	57
51	Seasonal and interannual variation of dissolved iodine speciation at a coastal Antarctic site. Marine Chemistry, 2010, 118, 171-181.	2.3	49
52	Seasonal variation in the diversity and abundance of pelagic larvae of Antarctic marine invertebrates. Marine Biology, 2009, 156, 2033-2047.	1.5	48
53	Genomics: applications to Antarctic ecosystems. Polar Biology, 2005, 28, 351-365.	1.2	44
54	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

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55	Introduction. Antarctic ecology from genes to ecosystems: the impact of climate change and the importance of scale. Philosophical Transactions of the Royal Society B: Biological Sciences, 2007, 362, 5-9.	4.0	43
56	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
57	Growth in the slow lane: protein metabolism in the Antarctic limpetNacella concinna(Strebel) Tj ETQq1 1 0.784314 rgBT /Over	1.7	37
58	Antarctic Genomics. Comparative and Functional Genomics, 2004, 5, 230-238.	2.0	34
59	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
60	Energy Flow in Growth and Production. Trends in Ecology and Evolution, 2019, 34, 502-509.	8.7	29
61	Diet and body temperature in mammals and birds. Global Ecology and Biogeography, 2014, 23, 1000-1008.	5.8	28
62	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
63	An introduction to EASIZ (Ecology of the Antarctic Sea Ice Zone): An integrated programme of water column, benthos and bentho-pelagic coupling in the coastal environment of Antarctica. Deep-Sea Research Part II: Topical Studies in Oceanography, 2006, 53, 803-814.	1.4	21
64	Climateâ€induced change in biogenic bromine emissions from the Antarctic marine biosphere. Global Biogeochemical Cycles, 2012, 26, .	4.9	19
65	Ten principles of thermal ecology. , 2017, , .		18
66	Dinosaur Energetics: Setting the Bounds on Feasible Physiologies and Ecologies. American Naturalist, 2013, 182, 283-297.	2.1	17
67	Introduction. Antarctic ecology: from genes to ecosystems. Part 2. Evolution, diversity and functional ecology. Philosophical Transactions of the Royal Society B: Biological Sciences, 2007, 362, 2187-2189.	4.0	13
68	Hierarchical Population Genetic Structure in a Direct Developing Antarctic Marine Invertebrate. PLoS ONE, 2013, 8, e63954.	2.5	10
69	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
70	An extreme marine environment: a 14-month record of temperature in a polar tidepool. Polar Biology, 2020, 43, 2021-2030.	1.2	6
71	Seasonal and interannual variability of feeding in Antarctic benthos. Limnology and Oceanography, 2022, 67, 962-972.	3.1	5
72	Life in the freezer: protein metabolism in Antarctic fish. Royal Society Open Science, 2022, 9, 211272.	2.4	5

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73	Climate and diversity: the role of history. , 2007, , 225-245.		2
74	John Croxall and marine conservation biology: an introduction to the symposium. Aquatic Conservation: Marine and Freshwater Ecosystems, 2007, 17, S1-S5.	2.0	0
75	Biologically significant rises in shallow sea temperatures at King George Island, West Antarctic Peninsula. Polar Biology, 2008, , 1.	1.2	0