

Andrew S Brierley

List of Publications by Year in descending order

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Version: 2024-02-01

115
papers

6,668
citations

71102

41
h-index

69250

77
g-index

121
all docs

121
docs citations

121
times ranked

6318
citing authors

#	ARTICLE	IF	CITATIONS
1	Scaling laws of marine predator search behaviour. <i>Nature</i> , 2008, 451, 1098-1102.	27.8	852
2	Impacts of Climate Change on Marine Organisms and Ecosystems. <i>Current Biology</i> , 2009, 19, R602-R614.	3.9	455
3	Jellyfish overtake fish in a heavily fished ecosystem. <i>Current Biology</i> , 2006, 16, R492-R493.	3.9	304
4	Antarctic Krill Under Sea Ice: Elevated Abundance in a Narrow Band Just South of Ice Edge. <i>Science</i> , 2002, 295, 1890-1892.	12.6	237
5	Biogeography of the Global Ocean's Mesopelagic Zone. <i>Current Biology</i> , 2017, 27, 113-119.	3.9	176
6	Diel vertical migration. <i>Current Biology</i> , 2014, 24, R1074-R1076.	3.9	171
7	Interannual variability of the South Georgia marine ecosystem: biological and physical sources of variation in the abundance of krill. <i>Fisheries Oceanography</i> , 1998, 7, 381-390.	1.7	150
8	Diel vertical migration of Arctic zooplankton during the polar night. <i>Biology Letters</i> , 2009, 5, 69-72.	2.3	146
9	From siphonophores to deep scattering layers: uncertainty ranges for the estimation of global mesopelagic fish biomass. <i>ICES Journal of Marine Science</i> , 2019, 76, 718-733.	2.5	146
10	Interannual variability in abundance of North Sea jellyfish and links to the North Atlantic Oscillation. <i>Limnology and Oceanography</i> , 2004, 49, 637-643.	3.1	142
11	Moonlight Drives Ocean-Scale Mass Vertical Migration of Zooplankton during the Arctic Winter. <i>Current Biology</i> , 2016, 26, 244-251.	3.9	136
12	Ecology of Southern Ocean pack ice. <i>Advances in Marine Biology</i> , 2002, 43, 171-IN4.	1.4	133
13	Evidence for impacts by jellyfish on North Sea herring recruitment. <i>Marine Ecology - Progress Series</i> , 2005, 298, 157-167.	1.9	116
14	Microplastic study reveals the presence of natural and synthetic fibres in the diet of King Penguins (<i>Aptenodytes patagonicus</i>) foraging from South Georgia. <i>Environment International</i> , 2020, 134, 105303.	10.0	115
15	Oceanographic variability and changes in Antarctic krill (<i>Euphausia superba</i>) abundance at South Georgia. <i>Fisheries Oceanography</i> , 2003, 12, 569-583.	1.7	110
16	Fish do not avoid survey vessels. <i>Nature</i> , 2000, 404, 35-36.	27.8	109
17	Jellyfish abundance and climatic variation: contrasting responses in oceanographically distinct regions of the North Sea, and possible implications for fisheries. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2005, 85, 435-450.	0.8	92
18	Are penguins and seals in competition for Antarctic krill at South Georgia?. <i>Marine Biology</i> , 2002, 140, 205-213.	1.5	90

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19	Verification of the acoustic techniques used to identify Antarctic krill. <i>ICES Journal of Marine Science</i> , 2002, 59, 1326-1336.	2.5	85
20	Acoustic observations of jellyfish in the Namibian Benguela. <i>Marine Ecology - Progress Series</i> , 2001, 210, 55-66.	1.9	81
21	Biomass of Antarctic krill in the Scotia Sea in January/February 2000 and its use in revising an estimate of precautionary yield. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2004, 51, 1215-1236.	1.4	80
22	Interannual variability in krill abundance at South Georgia. <i>Marine Ecology - Progress Series</i> , 1997, 150, 87-98.	1.9	77
23	Shapes of Krill Swarms and Fish Schools Emerge as Aggregation Members Avoid Predators and Access Oxygen. <i>Current Biology</i> , 2010, 20, 1758-1762.	3.9	74
24	Restricted gene flow and evolutionary divergence between geographically separated populations of the Antarctic octopus <i>Pareledone turqueti</i> . <i>Marine Biology</i> , 1997, 129, 97-102.	1.5	71
25	Comparison of zooplankton vertical migration in an ice-free and a seasonally ice-covered Arctic fjord: An insight into the influence of sea ice cover on zooplankton behavior. <i>Limnology and Oceanography</i> , 2010, 55, 831-845.	3.1	71
26	Concordance of interannual fluctuations in acoustically estimated densities of Antarctic krill around South Georgia and Elephant Island: biological evidence of same-year teleconnections across the Scotia Sea. <i>Marine Biology</i> , 1999, 134, 675-681.	1.5	70
27	Acoustic discrimination of Southern Ocean zooplankton. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1998, 45, 1155-1173.	1.4	68
28	Does Presence of a Mid-Ocean Ridge Enhance Biomass and Biodiversity?. <i>PLoS ONE</i> , 2013, 8, e61550.	2.5	68
29	Autonomous underwater vehicles: future platforms for fisheries acoustics. <i>ICES Journal of Marine Science</i> , 2003, 60, 684-691.	2.5	66
30	Use of moored acoustic instruments to measure short-term variability in abundance of Antarctic krill. <i>Limnology and Oceanography: Methods</i> , 2006, 4, 18-29.	2.0	66
31	Successful ecosystem-based management of Antarctic krill should address uncertainties in krill recruitment, behaviour and ecological adaptation. <i>Communications Earth & Environment</i> , 2020, 1, .	6.8	64
32	A post-processing technique to remove background noise from echo integration data. <i>ICES Journal of Marine Science</i> , 1996, 53, 339-344.	2.5	63
33	Single-target echo detections of jellyfish. <i>ICES Journal of Marine Science</i> , 2004, 61, 383-393.	2.5	60
34	Krill-copepod interactions at South Georgia, Antarctica, II. <i>Euphausia superba</i> as a major control on copepod abundance. <i>Marine Ecology - Progress Series</i> , 1999, 176, 63-79.	1.9	60
35	Genetic evidence of population heterogeneity and cryptic speciation in the ommastrephid squid <i>Martialia hyadesi</i> from the Patagonian Shelf and Antarctic Polar Frontal Zone. <i>Marine Biology</i> , 1993, 116, 593-602.	1.5	57
36	Genetic variation in the neritic squid <i>Loligo forbesi</i> (Myopsida: Loliginidae) in the northeast Atlantic Ocean. <i>Marine Biology</i> , 1995, 122, 79-86.	1.5	57

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37	Comparison of zooplankton vertical migration in an ice-free and a seasonally ice-covered Arctic fjord: An insight into the influence of sea ice cover on zooplankton behavior. <i>Limnology and Oceanography</i> , 2010, 55, 831-845.	3.1	56
38	Setting a Precautionary Catch Limit for Antarctic Krill. <i>Oceanography</i> , 2002, 15, 26-33.	1.0	49
39	Enhanced survival of 0-group gadoid fish under jellyfish umbrellas. <i>Marine Biology</i> , 2007, 150, 1397-1401.	1.5	48
40	Spatial demography of <i>Calanus finmarchicus</i> in the Irminger Sea. <i>Progress in Oceanography</i> , 2008, 76, 39-88.	3.2	47
41	The Southern Antarctic Circumpolar Current Front: physical and biological coupling at South Georgia. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2002, 49, 2183-2202.	1.4	44
42	Towards the acoustic estimation of jellyfish abundance. <i>Marine Ecology - Progress Series</i> , 2005, 295, 105-111.	1.9	43
43	Acoustic targets at South Georgia and the South Orkney Islands during a season of krill scarcity. <i>Marine Ecology - Progress Series</i> , 1996, 138, 51-61.	1.9	40
44	Geographic variation in <i>Loligo forbesi</i> in the Northeast Atlantic Ocean: analysis of morphometric data and tests of causal hypotheses. <i>Marine Biology</i> , 1994, 119, 541-547.	1.5	39
45	Mercury biomagnification in a Southern Ocean food web. <i>Environmental Pollution</i> , 2021, 275, 116620.	7.5	39
46	An assessment of the utility of an acoustic Doppler current profiler for biomass estimation. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1998, 45, 1555-1573.	1.4	37
47	Spatio-temporal variability in the distribution of epi- and meso-pelagic acoustic backscatter in the Irminger Sea, North Atlantic, with implications for predation on <i>Calanus finmarchicus</i> . <i>Marine Biology</i> , 2005, 146, 1177-1188.	1.5	37
48	Identification of Southern Ocean acoustic targets using aggregation backscatter and shape characteristics. <i>ICES Journal of Marine Science</i> , 2003, 60, 641-649.	2.5	36
49	A Multidisciplinary Approach for Generating Globally Consistent Data on Mesophotic, Deep-Pelagic, and Bathyal Biological Communities. <i>Oceanography</i> , 2018, 31, .	1.0	36
50	Biometry and size distribution of <i>Chrysaora hysoscella</i> (Cnidaria, Scyphozoa) and <i>Aequorea aequorea</i> (Cnidaria, Hydrozoa) off Namibia with some notes on their parasite <i>Hyperia medusarum</i> . <i>Journal of Plankton Research</i> , 2001, 23, 1073-1080.	1.8	34
51	Plankton. <i>Current Biology</i> , 2017, 27, R478-R483.	3.9	34
52	Fewer but Not Smaller Schools in Declining Fish and Krill Populations. <i>Current Biology</i> , 2015, 25, 75-79.	3.9	33
53	Moonlit swimming: vertical distributions of macrozooplankton and nekton during the polar night. <i>Polar Biology</i> , 2015, 38, 75-85.	1.2	33
54	Multibeam echosounder observations reveal interactions between Antarctic krill and air-breathing predators. <i>Marine Ecology - Progress Series</i> , 2009, 378, 199-209.	1.9	33

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55	Diurnal changes in near-surface ammonium concentration—interplay between zooplankton and phytoplankton. <i>Journal of Plankton Research</i> , 1997, 19, 1305-1330.	1.8	32
56	Through a glass less darkly—New approaches for studying the distribution, abundance and biology of Euphausiids. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2010, 57, 496-507.	1.4	32
57	Seasonal and diel vertical migration of zooplankton in the High Arctic during the autumn midnight sun of 2008. <i>Marine Biodiversity</i> , 2011, 41, 365-382.	1.0	32
58	A method for identifying Sound Scattering Layers and extracting key characteristics. <i>Methods in Ecology and Evolution</i> , 2015, 6, 1190-1198.	5.2	31
59	Mercury levels in Southern Ocean squid: Variability over the last decade. <i>Chemosphere</i> , 2020, 239, 124785.	8.2	30
60	An investigation of avoidance by Antarctic krill of RRS James Clark Ross using the Autosub-2 autonomous underwater vehicle. <i>Fisheries Research</i> , 2003, 60, 569-576.	1.7	29
61	Drivers of euphausiid species abundance and numerical abundance in the Atlantic Ocean. <i>Marine Biology</i> , 2009, 156, 2539-2553.	1.5	29
62	Three-dimensional observations of swarms of Antarctic krill (<i>Euphausia superba</i>) made using a multi-beam echosounder. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2010, 57, 508-518.	1.4	29
63	From sea ice to blubber: linking whale condition to krill abundance using historical whaling records. <i>Polar Biology</i> , 2015, 38, 1195-1202.	1.2	29
64	Depth-dependent swimbladder compression in herring <i>Clupea harengus</i> observed using magnetic resonance imaging. <i>Journal of Fish Biology</i> , 2009, 74, 296-303.	1.6	28
65	Cryptic hydrozoan blooms pose risks to gill health in farmed North Atlantic salmon (<i>Salmo</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 107	0.8	28
66	The inshore fish assemblages of the Galápagos archipelago. <i>Biological Conservation</i> , 1994, 70, 49-57.	4.1	26
67	The ecosystem of the Mid-Atlantic Ridge at the sub-polar front and Charlie—Gibbs Fracture Zone; ECO-MAR project strategy and description of the sampling programme 2007—2010. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2013, 98, 220-230.	1.4	26
68	Krill and salp faecal pellets contribute equally to the carbon flux at the Antarctic Peninsula. <i>Nature Communications</i> , 2021, 12, 7168.	12.8	26
69	An investigation into the zooplankton composition of a prominent 38-kHz scattering layer in the North Sea. <i>Journal of Plankton Research</i> , 2005, 27, 623-633.	1.8	25
70	Abundance patterns and species assemblages of euphausiids associated with the Mid-Atlantic Ridge, North Atlantic. <i>Journal of Plankton Research</i> , 2011, 33, 1510-1525.	1.8	25
71	Trophic interaction of invertebrate zooplankton on either side of the Charlie Gibbs Fracture Zone/Subpolar Front of the Mid-Atlantic Ridge. <i>Journal of Marine Systems</i> , 2012, 94, 174-184.	2.1	25
72	Title is missing!. <i>Hydrobiologia</i> , 2001, 451, 275-286.	2.0	24

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73	Diving Depths of Northern Gannets: Acoustic Observations of <i>Sula Bassana</i> from an Autonomous Underwater Vehicle. <i>Auk</i> , 2001, 118, 529.	1.4	22
74	Regional variation in distribution pattern, population structure and growth rates of <i>Meganyctiphanes norvegica</i> and <i>Thysanoessa longicaudata</i> in the Irminger Sea, North Atlantic. <i>Progress in Oceanography</i> , 2007, 72, 313-342.	3.2	21
75	Diving Depths of Northern Gannets: Acoustic Observations of <i>Sula Bassana</i> from an Autonomous Underwater Vehicle. <i>Auk</i> , 2001, 118, 529-534.	1.4	20
76	Estimating the Density of Antarctic Krill (<i>Euphausia Superba</i>) from Multi-Beam Echo-Sounder Observations Using Distance Sampling Methods. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2011, 60, 301-316.	1.0	20
77	Spatial and temporal variability in the structure of aggregations of Antarctic krill (<i>Euphausia</i>) Tj ETQq1 1 0.784314 $\frac{rgBT}{Overlock}$ 10 $\frac{TF}{TF}$	2.5	20
78	Seamount influences on mid-water shrimps (Decapoda) and gnathophausiids (Lophogastridea) of the South-West Indian Ridge. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2017, 136, 85-97.	1.4	20
79	The distribution of pelagic sound scattering layers across the southwest Indian Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2017, 136, 108-121.	1.4	20
80	Spatial variability in total and organic mercury levels in Antarctic krill <i>Euphausia superba</i> across the Scotia Sea. <i>Environmental Pollution</i> , 2019, 247, 332-339.	7.5	20
81	Broad-bandwidth, sound scattering, and absorption from krill (<i>Meganyctiphanes norvegica</i>), mysids (<i>Praunus flexuosus</i> and <i>Neomysis integer</i>), and shrimp (<i>Crangon crangon</i>). <i>ICES Journal of Marine Science</i> , 2005, 62, 956-965.	2.5	19
82	Antarctic Ecosystem: Are Deep Krill Ecological Outliers or Portents of a Paradigm Shift?. <i>Current Biology</i> , 2008, 18, R252-R254.	3.9	19
83	Effects of sea ice cover on the swarming behaviour of Antarctic krill, <i>Euphausia superba</i> . <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2000, 57, 24-30.	1.4	17
84	Changes in seasonal expression patterns of ecdysone receptor, retinoid X receptor and an A-type allatostatin in the copepod, <i>Calanus finmarchicus</i> , in a sea loch environment: An investigation of possible mediators of diapause. <i>General and Comparative Endocrinology</i> , 2013, 189, 66-73.	1.8	17
85	Automated classification of schools of the silver cyprinid <i>Rastrineobola argentea</i> in Lake Victoria acoustic survey data using random forests. <i>ICES Journal of Marine Science</i> , 2020, 77, 1379-1390.	2.5	17
86	Impacts of jellyfish on marine cage aquaculture: an overview of existing knowledge and the challenges to finfish health. <i>ICES Journal of Marine Science</i> , 2021, 78, 1557-1573.	2.5	17
87	Biogeochemistry of a Southern Ocean plankton ecosystem: Using natural variability in community composition to study the role of metazooplankton in carbon and nitrogen cycles. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	16
88	A Bayesian approach to estimating target strength. <i>ICES Journal of Marine Science</i> , 2009, 66, 1197-1204.	2.5	15
89	Sampling the fish gill microbiome: a comparison of tissue biopsies and swabs. <i>BMC Microbiology</i> , 2021, 21, 313.	3.3	15
90	Biochemical genetic evidence supporting the taxonomic separation of <i>Loligo gahi</i> from the genus <i>Loligo</i> . <i>Antarctic Science</i> , 1994, 6, 143-148.	0.9	14

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91	Biochemical genetic evidence supporting the taxonomic separation of <i>Loligo edulis</i> and <i>Loligo chinensis</i> (Cephalopoda: Teuthoidea) from the genus <i>Loligo</i> . <i>Marine Biology</i> , 1996, 127, 97-104.	1.5	14
92	A Bayesian maximum entropy reconstruction of stock distribution and inference of stock density from line-transect acoustic-survey data. <i>ICES Journal of Marine Science</i> , 2003, 60, 446-452.	2.5	13
93	Drivers of variability in Euphausiid species abundance throughout the Pacific Ocean. <i>Journal of Plankton Research</i> , 2011, 33, 1342-1357.	1.8	13
94	Main drivers of mercury levels in Southern Ocean lantern fish Myctophidae. <i>Environmental Pollution</i> , 2020, 264, 114711.	7.5	12
95	Stuck between a rock and a hard place: zooplankton vertical distribution and hypoxia in the Gulf of Finland, Baltic Sea. <i>Marine Biology</i> , 2015, 162, 1429-1440.	1.5	11
96	A visualization-based post-processing system for analysis of acoustic data. <i>ICES Journal of Marine Science</i> , 1996, 53, 335-338.	2.5	10
97	A comparison of Antarctic euphausiids sampled by net and from geothermally heated waters: insights into sampling bias. <i>Polar Biology</i> , 1999, 22, 109-114.	1.2	10
98	Modelling three-dimensional directivity of sound scattering by Antarctic krill: progress towards biomass estimation using multibeam sonar. <i>ICES Journal of Marine Science</i> , 2009, 66, 1245-1251.	2.5	10
99	Zooplankton and micronekton biovolume at the Mid-Atlantic Ridge and Charlieâ€™s Gibbs Fracture Zone estimated by multi-frequency acoustic survey. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2013, 98, 269-278.	1.4	10
100	The ECO-MAR (Ecosystem of the Mid-Atlantic Ridge at the Sub-Polar Front and Charlie Gibbs Fracture) Tj ETQq0 0 0 rgBT /Overlock 10 T 2013, 9, 624-628.	0.7	10
101	Molecular identification of potential aquaculture pathogens adherent to cnidarian zooplankton. <i>Aquaculture</i> , 2020, 518, 734801.	3.5	9
102	Potential for long-distance dispersal of <i>Euphausia crystallorophias</i> in fast current jets. <i>Marine Biology</i> , 1999, 135, 77-82.	1.5	8
103	Submersible observations on the daytime vertical distribution of <i>Aequorea forskalea</i> off the west coast of southern Africa. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2005, 85, 519-522.	0.8	8
104	Bayesian Network Analysis reveals resilience of the jellyfish <i>Aurelia aurita</i> to an Irish Sea regime shift. <i>Scientific Reports</i> , 2021, 11, 3707.	3.3	8
105	Ecosystem approach to harvesting in the Arctic: Walking the tightrope between exploitation and conservation in the Barents Sea. <i>Ambio</i> , 2021, , 1.	5.5	8
106	The Potential for Aquaculture to Reduce Poverty and Control Schistosomiasis in CÃ“te dâ€™Ivoire (Ivory) Tj ETQq0 0 0 rgBT /Overlock 10 T <i>Aquaculture</i> , 2022, 30, 467-497.	9.1	7
107	Using Predicted Patterns of 3D Prey Distribution to Map King Penguin Foraging Habitat. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	5
108	Improved bathymetry leads to >4000 new seamount predictions in the global ocean â€” but beware of phantom seamounts!. <i>UCL Open Environment</i> , 0, 4, .	0.0	5

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109	Fisheries Ecology: Hunger for Shark Fin Soup Drives Clam Chowder off the Menu. <i>Current Biology</i> , 2007, 17, R555-R557.	3.9	4
110	Fin whale (<i>Balaenoptera physalus</i>) target strength measurements. <i>Marine Mammal Science</i> , 2013, 29, 371-388.	1.8	4
111	Oxidative stress, metabolic activity and mercury concentrations in Antarctic krill <i>Euphausia superba</i> and myctophid fish of the Southern Ocean. <i>Marine Pollution Bulletin</i> , 2021, 166, 112178.	5.0	3
112	Effects of sea ice cover on the swarming behaviour of Antarctic krill, &Euphausia superba. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2000, 57, 24-30.	1.4	3
113	The Simrad EK60 echosounder dataset from the Malaspina circumnavigation. <i>Scientific Data</i> , 2021, 8, 259.	5.3	2
114	Estimating Pelagic Fish Biomass in a Tropical Seascape Using Echosounding and Baited Stereo-Videography. <i>Ecosystems</i> , 2022, 25, 1400-1417.	3.4	2
115	Krill and the diversity of science and society: An introduction to the Third International Symposium on Krill. <i>Journal of Crustacean Biology</i> , 2018, , .	0.8	0