

# 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	Estimating Pelagic Fish Biomass in a Tropical Seascape Using Echosounding and Baited Stereo-Videography. <i>Ecosystems</i> , 2022, 25, 1400-1417.	3.4	2
2	The Potential for Aquaculture to Reduce Poverty and Control Schistosomiasis in Côte d'Ivoire (Ivory Coast). <i>Aquaculture</i> , 2022, 30, 467-497.	9.1	7
3	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
4	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
5	Mercury biomagnification in a Southern Ocean food web. <i>Environmental Pollution</i> , 2021, 275, 116620.	7.5	39
6	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
7	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
8	The Simrad EK60 echosounder dataset from the Malaspina circumnavigation. <i>Scientific Data</i> , 2021, 8, 259.	5.3	2
9	Using Predicted Patterns of 3D Prey Distribution to Map King Penguin Foraging Habitat. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	5
10	Sampling the fish gill microbiome: a comparison of tissue biopsies and swabs. <i>BMC Microbiology</i> , 2021, 21, 313.	3.3	15
11	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
12	Mercury levels in Southern Ocean squid: Variability over the last decade. <i>Chemosphere</i> , 2020, 239, 124785.	8.2	30
13	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
14	Molecular identification of potential aquaculture pathogens adherent to cnidarian zooplankton. <i>Aquaculture</i> , 2020, 518, 734801.	3.5	9
15	Successful ecosystem-based management of Antarctic krill should address uncertainties in krill recruitment, behaviour and ecological adaptation. <i>Communications Earth &amp; Environment</i> , 2020, 1, .	6.8	64
16	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
17	Main drivers of mercury levels in Southern Ocean lantern fish <i>Myctophidae</i> . <i>Environmental Pollution</i> , 2020, 264, 114711.	7.5	12
18	Cryptic hydrozoan blooms pose risks to gill health in farmed North Atlantic salmon ( <i>Salmo salar</i> ). <i>ICES Journal of Marine Science</i> , 2020, 77, 1379-1390.	0.8	28

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19	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
20	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
21	A Multidisciplinary Approach for Generating Globally Consistent Data on Mesophotic, Deep-Pelagic, and Bathyal Biological Communities. <i>Oceanography</i> , 2018, 31, .	1.0	36
22	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
23	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
24	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
25	Plankton. <i>Current Biology</i> , 2017, 27, R478-R483.	3.9	34
26	Biogeography of the Global Ocean's Mesopelagic Zone. <i>Current Biology</i> , 2017, 27, 113-119.	3.9	176
27	Moonlight Drives Ocean-Scale Mass Vertical Migration of Zooplankton during the Arctic Winter. <i>Current Biology</i> , 2016, 26, 244-251.	3.9	136
28	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
29	Fewer but Not Smaller Schools in Declining Fish and Krill Populations. <i>Current Biology</i> , 2015, 25, 75-79.	3.9	33
30	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
31	Moonlit swimming: vertical distributions of macrozooplankton and nekton during the polar night. <i>Polar Biology</i> , 2015, 38, 75-85.	1.2	33
32	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
33	Diel vertical migration. <i>Current Biology</i> , 2014, 24, R1074-R1076.	3.9	171
34	Fin whale ( <i>Balaenoptera physalus</i> ) target strength measurements. <i>Marine Mammal Science</i> , 2013, 29, 371-388.	1.8	4
35	The ecosystem of the Mid-Atlantic Ridge at the sub-polar front and Charlie's 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
36	Zooplankton and micronekton biovolume at the Mid-Atlantic Ridge and Charlie'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

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37	The ECO-MAR (Ecosystem of the Mid-Atlantic Ridge at the Sub-Polar Front and Charlie Gibbs Fracture) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 462 T	0.7	10
38	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. General and Comparative Endocrinology, 2013, 189, 66-73.	1.8	17
39	Does Presence of a Mid-Ocean Ridge Enhance Biomass and Biodiversity?. PLoS ONE, 2013, 8, e61550.	2.5	68
40	Trophic interaction of invertebrate zooplankton on either side of the Charlie Gibbs Fracture Zone/Subpolar Front of the Mid-Atlantic Ridge. Journal of Marine Systems, 2012, 94, 174-184.	2.1	25
41	Abundance patterns and species assemblages of euphausiids associated with the Mid-Atlantic Ridge, North Atlantic. Journal of Plankton Research, 2011, 33, 1510-1525.	1.8	25
42	Estimating the Density of Antarctic Krill (<i>Euphausia Superba</i>) from Multi-Beam Echo-Sounder Observations Using Distance Sampling Methods. Journal of the Royal Statistical Society Series C: Applied Statistics, 2011, 60, 301-316.	1.0	20
43	Seasonal and diel vertical migration of zooplankton in the High Arctic during the autumn midnight sun of 2008. Marine Biodiversity, 2011, 41, 365-382.	1.0	32
44	Spatial and temporal variability in the structure of aggregations of Antarctic krill ( <i>Euphausia</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 T	2.5	20
45	Drivers of variability in Euphausiid species abundance throughout the Pacific Ocean. Journal of Plankton Research, 2011, 33, 1342-1357.	1.8	13
46	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. Limnology and Oceanography, 2010, 55, 831-845.	3.1	71
47	Shapes of Krill Swarms and Fish Schools Emerge as Aggregation Members Avoid Predators and Access Oxygen. Current Biology, 2010, 20, 1758-1762.	3.9	74
48	Through a glass less darklyâ€”New approaches for studying the distribution, abundance and biology of Euphausiids. Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 496-507.	1.4	32
49	Three-dimensional observations of swarms of Antarctic krill ( <i>Euphausia superba</i> ) made using a multi-beam echosounder. Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 508-518.	1.4	29
50	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. Limnology and Oceanography, 2010, 55, 831-845.	3.1	56
51	A Bayesian approach to estimating target strength. ICES Journal of Marine Science, 2009, 66, 1197-1204.	2.5	15
52	Modelling three-dimensional directivity of sound scattering by Antarctic krill: progress towards biomass estimation using multibeam sonar. ICES Journal of Marine Science, 2009, 66, 1245-1251.	2.5	10
53	Impacts of Climate Change on Marine Organisms and Ecosystems. Current Biology, 2009, 19, R602-R614.	3.9	455
54	Drivers of euphausiid species abundance and numerical abundance in the Atlantic Ocean. Marine Biology, 2009, 156, 2539-2553.	1.5	29

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55	Depthâ€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
56	Diel vertical migration of Arctic zooplankton during the polar night. <i>Biology Letters</i> , 2009, 5, 69-72.	2.3	146
57	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
58	Scaling laws of marine predator search behaviour. <i>Nature</i> , 2008, 451, 1098-1102.	27.8	852
59	Antarctic Ecosystem: Are Deep Krill Ecological Outliers or Portents of a Paradigm Shift?. <i>Current Biology</i> , 2008, 18, R252-R254.	3.9	19
60	Spatial demography of <i>Calanus finmarchicus</i> in the Irminger Sea. <i>Progress in Oceanography</i> , 2008, 76, 39-88.	3.2	47
61	Fisheries Ecology: Hunger for Shark Fin Soup Drives Clam Chowder off the Menu. <i>Current Biology</i> , 2007, 17, R555-R557.	3.9	4
62	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
63	Enhanced survival of 0-group gadoid fish under jellyfish umbrellas. <i>Marine Biology</i> , 2007, 150, 1397-1401.	1.5	48
64	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
65	Jellyfish overtake fish in a heavily fished ecosystem. <i>Current Biology</i> , 2006, 16, R492-R493.	3.9	304
66	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
67	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
68	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
69	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
70	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
71	Towards the acoustic estimation of jellyfish abundance. <i>Marine Ecology - Progress Series</i> , 2005, 295, 105-111.	1.9	43
72	Evidence for impacts by jellyfish on North Sea herring recruitment. <i>Marine Ecology - Progress Series</i> , 2005, 298, 157-167.	1.9	116

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73	Single-target echo detections of jellyfish. ICES Journal of Marine Science, 2004, 61, 383-393.	2.5	60
74	Interannual variability in abundance of North Sea jellyfish and links to the North Atlantic Oscillation. Limnology and Oceanography, 2004, 49, 637-643.	3.1	142
75	Biomass of Antarctic krill in the Scotia Sea in January/February 2000 and its use in revising an estimate of precautionary yield. Deep-Sea Research Part II: Topical Studies in Oceanography, 2004, 51, 1215-1236.	1.4	80
76	Oceanographic variability and changes in Antarctic krill ( <i>Euphausia superba</i> ) abundance at South Georgia. Fisheries Oceanography, 2003, 12, 569-583.	1.7	110
77	Biogeochemistry of a Southern Ocean plankton ecosystem: Using natural variability in community composition to study the role of metazooplankton in carbon and nitrogen cycles. Journal of Geophysical Research, 2003, 108, .	3.3	16
78	An investigation of avoidance by Antarctic krill of RRS James Clark Ross using the Autosub-2 autonomous underwater vehicle. Fisheries Research, 2003, 60, 569-576.	1.7	29
79	Identification of Southern Ocean acoustic targets using aggregation backscatter and shape characteristics. ICES Journal of Marine Science, 2003, 60, 641-649.	2.5	36
80	A Bayesian maximum entropy reconstruction of stock distribution and inference of stock density from line-transect acoustic-survey data. ICES Journal of Marine Science, 2003, 60, 446-452.	2.5	13
81	Autonomous underwater vehicles: future platforms for fisheries acoustics. ICES Journal of Marine Science, 2003, 60, 684-691.	2.5	66
82	Antarctic Krill Under Sea Ice: Elevated Abundance in a Narrow Band Just South of Ice Edge. Science, 2002, 295, 1890-1892.	12.6	237
83	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
84	Verification of the acoustic techniques used to identify Antarctic krill. ICES Journal of Marine Science, 2002, 59, 1326-1336.	2.5	85
85	Ecology of Southern Ocean pack ice. Advances in Marine Biology, 2002, 43, 171-IN4.	1.4	133
86	Setting a Precautionary Catch Limit for Antarctic Krill. Oceanography, 2002, 15, 26-33.	1.0	49
87	Are penguins and seals in competition for Antarctic krill at South Georgia?. Marine Biology, 2002, 140, 205-213.	1.5	90
88	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> . Journal of Plankton Research, 2001, 23, 1073-1080.	1.8	34
89	Diving Depths of Northern Gannets: Acoustic Observations of <i>Sula Bassana</i> from an Autonomous Underwater Vehicle. Auk, 2001, 118, 529-534.	1.4	20
90	Title is missing!. Hydrobiologia, 2001, 451, 275-286.	2.0	24

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91	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
92	Acoustic observations of jellyfish in the Namibian Benguela. <i>Marine Ecology - Progress Series</i> , 2001, 210, 55-66.	1.9	81
93	Fish do not avoid survey vessels. <i>Nature</i> , 2000, 404, 35-36.	27.8	109
94	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
95	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	3
96	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
97	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
98	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
99	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
100	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
101	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
102	Acoustic discrimination of Southern Ocean zooplankton. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1998, 45, 1155-1173.	1.4	68
103	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
104	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
105	Interannual variability in krill abundance at South Georgia. <i>Marine Ecology - Progress Series</i> , 1997, 150, 87-98.	1.9	77
106	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
107	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
108	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

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109	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
110	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
111	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
112	The inshore fish assemblages of the Galápagos archipelago. <i>Biological Conservation</i> , 1994, 70, 49-57.	4.1	26
113	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
114	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
115	Improved bathymetry leads to >4000 new seamount predictions in the global ocean “but beware of phantom seamounts!”. <i>UCL Open Environment</i> , 0, 4, .	0.0	5