Andrew G Hirst

List of Publications by Year
in descending order

68 papers	4,182 citations	117453 34 h-index	118652 62 g-index
69 all docs	69 docs citations	69 times ranked	4092 citing authors

#	Article	IF	Citations
1	Increasing nutrient stress reduces the efficiency of energy transfer through planktonic size spectra. Limnology and Oceanography, 2021, 66, 422-437.	1.6	28
2	Shrinking body sizes in response to warming: explanations for the temperatureâ€“size rule with special emphasis on the role of oxygen. Biological Reviews, 2021, 96, 247-268.	4.7	153
3	Body size and shape responses to warming and resource competition. Functional Ecology, 2021, 35, 1460-1469.	1.7	16
4	Densityâ€dependent modulation of copepod body size and temperatureâ€“size responses in a shelf sea. Limnology and Oceanography, 2021, 66, 3916-3927.	1.6	3
5	A new framework for growth curve fitting based on the von Bertalanffy Growth Function. Scientific Reports, 2020, 10, 7953.	1.6	17
6	Temperatureâ€mediated changes in zooplankton body size: large scale temporal and spatial analysis. Ecography, 2020, 43, 581-590.	2.1	36
7	Selection for increased male size predicts variation in sexual size dimorphism among fish species. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20192640.	1.2	28
8	Ecological pressures and the contrasting scaling of metabolism and body shape in coexisting taxa: cephalopods versus teleost fish. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180543.	1.8	27
9	A synthesis of major environmental-body size clines of the sexes within arthropod species. Oecologia, 2019, 190, 343-353.	0.9	8
10	Rapid shifts in the thermal sensitivity of growth but not development rate causes temperatureâ€“size response variability during ontogeny in arthropods. Oikos, 2019, 128, 823-835.	1.2	19
11	Seasonality of Oithona similis and Calanus helgolandicus reproduction and abundance: contrasting responses to environmental variation at a shelf site. Journal of Plankton Research, 2018, 40, 295-310.	0.8	15
12	Insect temperatureâ€“body size trends common to laboratory, latitudinal and seasonal gradients are not found across altitudes. Functional Ecology, 2018, 32, 948-957.	1.7	41
13	Mortality of <i>Calanus helgolandicus</i>: Sources, differences between the sexes and consumptive and nonconsumptive processes. Limnology and Oceanography, 2018, 63, 1741-1761.	1.6	14
14	Seasonal body size reductions with warming covary with major body size gradients in arthropod species. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170238.	1.2	48
15	Ontogenetic bodyâ€mass scaling of nitrogen excretion relates to body surface area in diverse pelagic invertebrates. Limnology and Oceanography, 2017, 62, 311-319.	1.6	12
16	Bridging Food Webs, Ecosystem Metabolism, and Biogeochemistry Using Ecological Stoichiometry Theory. Frontiers in Microbiology, 2017, 8, 1298.	1.5	53
17	Role of zooplankton dynamics for Southern Ocean phytoplankton biomass and global biogeochemical cycles. Biogeosciences, 2016, 13, 4111-4133.	1.3	84
18	A global synthesis of seasonal temperatureâ€“size responses in copepods. Global Ecology and Biogeography, 2016, 25, 988-999.	2.7	59

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19	Equal temperatureâ€“size responses of the sexes are widespread within arthropod species. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20152475.	1.2	30
20	Temperatureâ€size responses match latitudinalâ€size clines in arthropods, revealing critical differences between aquatic and terrestrial species. Ecology Letters, 2015, 18, 327-335.	3.0	207
21	Shape shifting predicts ontogenetic changes in metabolic scaling in diverse aquatic invertebrates. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20142302.	1.2	52
22	How does Calanus helgolandicus maintain its population in a variable environment? Analysis of a 25-year time series from the English Channel. Progress in Oceanography, 2015, 137, 513-523.	1.5	26
23	Influence of copepod size and behaviour on vulnerability to predation by the scyphomedusa Aurelia aurita. Journal of Plankton Research, 2014, 36, 77-90.	0.8	3
24	Re-assessing copepod growth using the Moult Rate method. Journal of Plankton Research, 2014, 36, 1224-1232.	0.8	9
25	Macroevolutionary patterns of sexual size dimorphism in copepods. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140739.	1.2	36
26	Body shape shifting during growth permits tests that distinguish between competing geometric theories of metabolic scaling. Ecology Letters, 2014, 17, 1274-1281.	3.0	88
27	Shifts in Mass Scaling of Respiration, Feeding, and Growth Rates across Life-Form Transitions in Marine Pelagic Organisms. American Naturalist, 2014, 183, E118-E130.	1.0	143
28	Estimating digestion time in gelatinous predators: a methodological comparison with the scyphomedusa Aurelia aurita. Marine Biology, 2013, 160, 793-804.	0.7	5
29	When growth models are not universal: evidence from marine invertebrates. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20131546.	1.2	26
30	Achieving temperature-size changes in a unicellular organism. ISME Journal, 2013, 7, 28-36.	4.4	40
31	Female-biased sex ratios in marine pelagic copepods: Comment on GusmÃ£o et al. (2013). Marine Ecology - Progress Series, 2013, 489, 297-298.	0.9	1
32	Intraspecific scaling of mass to length in pelagic animals: Ontogenetic shape change and its implications. Limnology and Oceanography, 2012, 57, 1579-1590.	1.6	21
33	Warming-induced reductions in body size are greater in aquatic than terrestrial species. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19310-19314.	3.3	382
34	The temperatureâ€size rule emerges from ontogenetic differences between growth and development rates. Functional Ecology, 2012, 26, 483-492.	1.7	120
35	Growth and Development Rates Have Different Thermal Responses. American Naturalist, 2011, 178, 668-678.	1.0	133
36	How do organisms change size with changing temperature? The importance of reproductive method and ontogenetic timing. Functional Ecology, 2011, 25, 1024-1031.	1.7	76

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37	Does predation controls adult sex ratios and longevities in marine pelagic copepods?. Limnology and Oceanography, 2010, 55, 2193-2206.	1.6	61
38	When Microscopic Organisms Inform General Ecological Theory. Advances in Ecological Research, 2010, 43, 45-85.	1.4	17
39	Seasonal abundance and egg production rates of Oithona similis and Pseudocalanus elongatus in the northern North Sea: a first comparison of egg-ratio and incubation methods. Marine Ecology - Progress Series, 2010, 415, 159-175.	0.9	13
40	Mesoscale physical variability affects zooplankton production in the Labrador Sea. Deep-Sea Research Part I: Oceanographic Research Papers, 2009, 56, 703-715.	0.6	20
41	Spatial demography of Calanus finmarchicus in the Irminger Sea. Progress in Oceanography, 2008, 76, 39-88.	1.5	47
42	Spring mortality of the cyclopoid copepod Oithona similis in polar waters. Marine Ecology - Progress Series, 2008, 372, 169-180.	0.9	17
43	Optimal development time in pelagic copepods. Marine Ecology - Progress Series, 2008, 367, 15-22.	0.9	44
44	Naupliar development times and survival of the copepods Calanus helgolandicus and Calanus finmarchicus in relation to food and temperature. Journal of Plankton Research, 2007, 29, 757-767.	0.8	60
45	Estimating juvenile copepod growth rates: corrections, inter-comparisons and recommendations. Marine Ecology - Progress Series, 2007, 336, 187-202.	0.9	34
46	Biogeochemical fluxes through mesozooplankton. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	1.9	155
47	Natural growth rates in Antarctic krill (Euphausia superba): II. Predictive models based on food, temperature, body length, sex, and maturity stage. Limnology and Oceanography, 2006, 51, 973-987.	1.6	153
48	Natural growth rates in Antarctic krill (Euphausia superba): I. Improving methodology and predicting intermolt period. Limnology and Oceanography, 2006, 51, 959-972.	1.6	77
49	Assessment of Calanus finmarchicus growth and dormancy using the aminoacyl-tRNA synthetases method. Journal of Plankton Research, 2006, 28, 1191-1198.	0.8	27
50	Effects of evolution on egg development time. Marine Ecology - Progress Series, 2006, 326, 29-35.	0.9	36
51	An overview of Calanus helgolandicus ecology in European waters. Progress in Oceanography, 2005, 65, 1-53.	1.5	136
52	Errors in juvenile copepod growth rate estimates are widespread: problems with the Moult Rate method. Marine Ecology - Progress Series, 2005, 296, 263-279.	0.9	42
53	Life-cycle phenotypic composition and mortality of Calanoides acutus (Copepoda: Calanoida) in the Scotia Sea: a modelling approach. Marine Ecology - Progress Series, 2004, 272, 165-181.	0.9	29
54	Fecundity of marine planktonic copepods: global rates and patterns in relation to chlorophyll a, temperature and body weight. Marine Ecology - Progress Series, 2004, 279, 161-181.	0.9	100

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55	A Synthesis of Growth Rates in Marine Epipelagic Invertebrate Zooplankton. Advances in Marine Biology, 2003, 44, 1-142.	0.7	76
56	Growth of marine planktonic copepods: Global rates and patterns in relation to chlorophyll <i>a</i>, temperature, and body weight. Limnology and Oceanography, 2003, 48, 1988-2010.	1.6	296
57	Mortality of marine planktonic copepods: global rates and patterns. Marine Ecology - Progress Series, 2002, 230, 195-209.	0.9	266
58	Pelagic production at the Celtic Sea shelf break. Deep-Sea Research Part II: Topical Studies in Oceanography, 2001, 48, 3049-3081.	0.6	79
59	Diet and community grazing by copepods in an upwelled filament off the NW coast of Spain. Progress in Oceanography, 2001, 51, 399-421.	1.5	42
60	Does egg production represent adult female copepod growth? A call to account for body weight changes. Marine Ecology - Progress Series, 2001, 223, 179-199.	0.9	59
61	Impacts of geophysical seismic surveying on fishing success. Reviews in Fish Biology and Fisheries, 2000, 10, 113-118.	2.4	25
62	Annual pattern of calanoid copepod abundance, prosome length and minor role in pelagic carbon flux in the Solent, UK. Marine Ecology - Progress Series, 1999, 177, 133-146.	0.9	31
63	Acartia bifilosa (Copepoda: Calanoida): a clarification of the species and its varieties inermis and intermedia. Journal of Plankton Research, 1998, 20, 1119-1130.	0.8	10
64	Salinity influences body weight quantification in the scyphomedusa Aurelia aurita:important implications for body weight determination in gelatinous zooplankton. Marine Ecology - Progress Series, 1998, 165, 259-269.	0.9	34
65	Long-term changes in the diel vertical migration behaviour of Calanus finmarchicus in the North Sea are unrelated to fish predation. Marine Ecology - Progress Series, 1998, 171, 307-310.	0.9	6
66	Plankton Dynamics andAurelia auritaProduction in Two Contrasting Ecosystems: Comparisons and Consequences. Estuarine, Coastal and Shelf Science, 1997, 45, 209-219.	0.9	42
67	Are in situ weight-specific growth rates body-size independent in marine planktonic copepods? A re-analysis of the global syntheses and a new empirical model. Marine Ecology - Progress Series, 1997, 154, 155-165.	0.9	82
68	Disentangling the counteracting effects of water content and carbon mass on zooplankton growth. Journal of Plankton Research, 0, , .	0.8	3