

# Lloyd S Peck

## List of Publications by Year in descending order

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135  
papers

9,574  
citations

31976

53  
h-index

42399

92  
g-index

141  
all docs

141  
docs citations

141  
times ranked

7143  
citing authors

#	ARTICLE	IF	CITATIONS
1	Climate change and the marine ecosystem of the western Antarctic Peninsula. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007, 362, 149-166.	4.0	343
2	Extreme sensitivity of biological function to temperature in Antarctic marine species. <i>Functional Ecology</i> , 2004, 18, 625-630.	3.6	332
3	Animal temperature limits and ecological relevance: effects of size, activity and rates of change. <i>Functional Ecology</i> , 2009, 23, 248-256.	3.6	311
4	Thermal limits and adaptation in marine Antarctic ectotherms: an integrative view. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007, 362, 2233-2258.	4.0	304
5	Macrophysiology: A Conceptual Reunification. <i>American Naturalist</i> , 2009, 174, 595-612.	2.1	298
6	The spatial structure of Antarctic biodiversity. <i>Ecological Monographs</i> , 2014, 84, 203-244.	5.4	286
7	Environmental constraints on life histories in Antarctic ecosystems: tempos, timings and predictability. <i>Biological Reviews</i> , 2006, 81, 75.	10.4	278
8	Polar gigantism dictated by oxygen availability. <i>Nature</i> , 1999, 399, 114-115.	27.8	272
9	Climate Change and Invasibility of the Antarctic Benthos. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2007, 38, 129-154.	8.3	248
10	Antarctic environmental change and biological responses. <i>Science Advances</i> , 2019, 5, eaaz0888.	10.3	215
11	Ecophysiology of Antarctic marine ectotherms: limits to life. <i>Polar Biology</i> , 2002, 25, 31-40.	1.2	193
12	Polar research: Six priorities for Antarctic science. <i>Nature</i> , 2014, 512, 23-25.	27.8	189
13	Acclimation and thermal tolerance in Antarctic marine ectotherms. <i>Journal of Experimental Biology</i> , 2014, 217, 16-22.	1.7	187
14	Upper Temperature Limits of Tropical Marine Ectotherms: Global Warming Implications. <i>PLoS ONE</i> , 2011, 6, e29340.	2.5	176
15	Insights into shell deposition in the Antarctic bivalve <i>Laternula elliptica</i> : gene discovery in the mantle transcriptome using 454 pyrosequencing. <i>BMC Genomics</i> , 2010, 11, 362.	2.8	160
16	Adult acclimation to combined temperature and pO <sub>2</sub> stressors significantly enhances reproductive outcomes compared to short-term exposures. <i>Journal of Animal Ecology</i> , 2015, 84, 773-784.	2.8	159
17	Metabolic Demand, Oxygen Supply, and Critical Temperatures in the Antarctic Bivalve <i>Laternula elliptica</i> . <i>Physiological and Biochemical Zoology</i> , 2002, 75, 123-133.	1.5	144
18	HSP70 heat shock proteins and environmental stress in Antarctic marine organisms: A mini-review. <i>Marine Genomics</i> , 2009, 2, 11-18.	1.1	144

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19	Marine invertebrate skeleton size varies with latitude, temperature and carbonate saturation: implications for global change and ocean acidification. <i>Global Change Biology</i> , 2012, 18, 3026-3038.	9.5	131
20	Early Larval Development of the Sydney Rock Oyster <i>Saccostrea glomerata</i> Under Near-Future Predictions of CO <sub>2</sub> -Driven Ocean Acidification. <i>Journal of Shellfish Research</i> , 2009, 28, 431-437.	0.9	129
21	Poor acclimation capacities in Antarctic marine ectotherms. <i>Marine Biology</i> , 2010, 157, 2051-2059.	1.5	122
22	Links between the structure of an Antarctic shallow-water community and ice-scour frequency. <i>Oecologia</i> , 2004, 141, 121-129.	2.0	118
23	A Cold Limit to Adaptation in the Sea. <i>Trends in Ecology and Evolution</i> , 2016, 31, 13-26.	8.7	116
24	Temperature and basal metabolism in two Antarctic marine herbivores. <i>Journal of Experimental Marine Biology and Ecology</i> , 1989, 127, 1-12.	1.5	113
25	Antarctic marine molluscs do have an HSP70 heat shock response. <i>Cell Stress and Chaperones</i> , 2008, 13, 39-49.	2.9	112
26	Organisms and responses to environmental change. <i>Marine Genomics</i> , 2011, 4, 237-243.	1.1	112
27	Hyperoxia alleviates thermal stress in the Antarctic bivalve, <i>Laternula elliptica</i> : evidence for oxygen limited thermal tolerance. <i>Polar Biology</i> , 2006, 29, 688-693.	1.2	106
28	Growth and metabolism in the Antarctic brachiopod <i>Liothyrella uva</i> . <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1997, 352, 851-858.	4.0	103
29	Variability and change in the west Antarctic Peninsula marine system: Research priorities and opportunities. <i>Progress in Oceanography</i> , 2019, 173, 208-237.	3.2	102
30	Amphipod crustacean size spectra: new insights in the relationship between size and oxygen. <i>Oikos</i> , 2004, 106, 167-175.	2.7	101
31	Antarctic Marine Biodiversity: Adaptations, Environments and Responses to Change. , 2018, , 105-236.		99
32	Predatory behaviour and metabolic costs in the Antarctic muricid gastropod <i>Trophon longstaffi</i> . <i>Polar Biology</i> , 2003, 26, 208-217.	1.2	93
33	Warming by 1°C Drives Species and Assemblage Level Responses in Antarctica's Marine Shallows. <i>Current Biology</i> , 2017, 27, 2698-2705.e3.	3.9	91
34	The HSP70 heat shock response in the Antarctic fish <i>Harpagifer antarcticus</i> . <i>Polar Biology</i> , 2007, 31, 171-180.	1.2	87
35	Antarctica: The final frontier for marine biological invasions. <i>Global Change Biology</i> , 2019, 25, 2221-2241.	9.5	87
36	Hypoxia impacts large adults first: consequences in a warming world. <i>Global Change Biology</i> , 2013, 19, 2251-2263.	9.5	86

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37	Triggers of the HSP70 stress response: environmental responses and laboratory manipulation in an Antarctic marine invertebrate ( <i>Nacella concinna</i> ). <i>Cell Stress and Chaperones</i> , 2009, 14, 649-660.	2.9	85
38	Lack of acclimation in <i>Ophionotus victoriae</i> : brittle stars are not fish. <i>Polar Biology</i> , 2009, 32, 399-402.	1.2	84
39	Lack of an HSP70 heat shock response in two Antarctic marine invertebrates. <i>Polar Biology</i> , 2008, 31, 1059-1065.	1.2	83
40	Biodiversity in marine invertebrate responses to acute warming revealed by a comparative multiomics approach. <i>Global Change Biology</i> , 2017, 23, 318-330.	9.5	80
41	Mitochondrial function and critical temperature in the Antarctic bivalve, <i>Laternula elliptica</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 1999, 124, 179-189.	1.8	79
42	Life in the intertidal: Cellular responses, methylation and epigenetics. <i>Functional Ecology</i> , 2018, 32, 1982-1994.	3.6	79
43	The myth of metabolic cold adaptation: oxygen consumption in stenothermal Antarctic bivalves. <i>Geological Society Special Publication</i> , 2000, 177, 441-450.	1.3	78
44	Remote sensing reveals Antarctic green snow algae as important terrestrial carbon sink. <i>Nature Communications</i> , 2020, 11, 2527.	12.8	75
45	Limitation of size by hypoxia in the fruit fly <i>Drosophila melanogaster</i> . <i>Journal of Experimental Zoology Part A, Comparative Experimental Biology</i> , 2005, 303A, 968-975.	1.3	72
46	Prospects for surviving climate change in Antarctic aquatic species. , 2005, 2, 9.		67
47	Deciphering mollusc shell production: the roles of genetic mechanisms through to ecology, aquaculture and biomimetics. <i>Biological Reviews</i> , 2020, 95, 1812-1837.	10.4	63
48	Geographical variation in thermal tolerance within Southern Ocean marine ectotherms. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2009, 153, 154-161.	1.8	60
49	Ocean acidification does not impact shell growth or repair of the Antarctic brachiopod <i>Liothyrella uva</i> (Broderip, 1833). <i>Journal of Experimental Marine Biology and Ecology</i> , 2015, 462, 29-35.	1.5	60
50	Blue mussel shell shape plasticity and natural environments: a quantitative approach. <i>Scientific Reports</i> , 2018, 8, 2865.	3.3	60
51	Snow algae communities in Antarctica: metabolic and taxonomic composition. <i>New Phytologist</i> , 2019, 222, 1242-1255.	7.3	60
52	Juveniles Are More Resistant to Warming than Adults in 4 Species of Antarctic Marine Invertebrates. <i>PLoS ONE</i> , 2013, 8, e66033.	2.5	59
53	Two methods for the assessment of the oxygen content of small volumes of seawater. <i>Journal of Experimental Marine Biology and Ecology</i> , 1990, 141, 53-62.	1.5	57
54	The effects of temperature on walking and righting in temperate and Antarctic crustaceans. <i>Polar Biology</i> , 2006, 29, 978-987.	1.2	57

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55	Physiological plasticity, long term resistance or acclimation to temperature, in the Antarctic bivalve, <i>Laternula elliptica</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2012, 162, 16-21.	1.8	57
56	Summer metabolism and seasonal changes in biochemical composition of the Antarctic brachiopod <i>Liothyrella uva</i> (Broderip, 1833). <i>Journal of Experimental Marine Biology and Ecology</i> , 1987, 114, 85-97.	1.5	56
57	Very slow development in two Antarctic bivalve molluscs, the infaunal clam <i>Laternula elliptica</i> and the scallop <i>Adamussium colbecki</i> . <i>Marine Biology</i> , 2007, 150, 1191-1197.	1.5	55
58	Iceberg Scour and Shell Damage in the Antarctic Bivalve <i>Laternula elliptica</i> . <i>PLoS ONE</i> , 2012, 7, e46341.	2.5	53
59	Lack of coherence in the warming responses of marine crustaceans. <i>Functional Ecology</i> , 2014, 28, 895-903.	3.6	53
60	Antarctic ecosystems in transition – life between stresses and opportunities. <i>Biological Reviews</i> , 2021, 96, 798-821.	10.4	53
61	Biom mineralization plasticity and environmental heterogeneity predict geographical resilience patterns of foundation species to future change. <i>Global Change Biology</i> , 2019, 25, 4179-4193.	9.5	52
62	Long-term effects of altered pH and temperature on the feeding energetics of the Antarctic sea urchin, <i>Sterechinus neumayeri</i> . <i>Biodiversity</i> , 2016, 17, 34-45.	1.1	51
63	Revealing higher than expected meiofaunal diversity in Antarctic sediments: a metabarcoding approach. <i>Scientific Reports</i> , 2017, 7, 6094.	3.3	51
64	Transcriptional response to heat stress in the Antarctic bivalve <i>Laternula elliptica</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2010, 391, 65-72.	1.5	50
65	Bomb signals in old Antarctic brachiopods. <i>Nature</i> , 1996, 380, 207-208.	27.8	49
66	Experimental influence of pH on the early life-stages of sea urchins II: increasing parental exposure times gives rise to different responses. <i>Invertebrate Reproduction and Development</i> , 2014, 58, 161-175.	0.8	49
67	Feeding, metabolism and growth in the Antarctic limpet, <i>Nacella concinna</i> (Strebel 1908). <i>Marine Biology</i> , 2001, 138, 553-560.	1.5	48
68	Seasonal variation in the diversity and abundance of pelagic larvae of Antarctic marine invertebrates. <i>Marine Biology</i> , 2009, 156, 2033-2047.	1.5	48
69	Latitudinal trends in shell production cost from the tropics to the poles. <i>Science Advances</i> , 2017, 3, e1701362.	10.3	48
70	Patterns of shell repair in articulate brachiopods indicate size constitutes a refuge from predation. <i>Marine Biology</i> , 2009, 156, 1993-2000.	1.5	47
71	Hypoxia tolerance associated with activity reduction is a key adaptation for <i>Laternula elliptica</i> seasonal energetics. <i>Oecologia</i> , 2007, 153, 29-36.	2.0	46
72	Strong Population Genetic Structure in a Broadcast-Spawning Antarctic Marine Invertebrate. <i>Journal of Heredity</i> , 2011, 102, 55-66.	2.4	45

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73	High Energy Phosphate Metabolism during Exercise and Recovery in Temperate and Antarctic Scallops: An In Vivo $^{31}\text{P}$ -NMR Study. <i>Physiological and Biochemical Zoology</i> , 2003, 76, 622-633.	1.5	44
74	Genomics: applications to Antarctic ecosystems. <i>Polar Biology</i> , 2005, 28, 351-365.	1.2	44
75	Brachiopods and climate change. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2007, 98, 451-456.	0.3	44
76	Low heat shock thresholds in wild Antarctic inter-tidal limpets ( <i>Nacella concinna</i> ). <i>Cell Stress and Chaperones</i> , 2008, 13, 51-58.	2.9	44
77	No ocean acidification effects on shell growth and repair in the New Zealand brachiopod <i>Calloria inconspicua</i> (Sowerby, 1846). <i>ICES Journal of Marine Science</i> , 2016, 73, 920-926.	2.5	44
78	Acidification effects on biofouling communities: winners and losers. <i>Global Change Biology</i> , 2015, 21, 1907-1913.	9.5	43
79	Thermal plasticity of mitochondria: A latitudinal comparison between Southern Ocean molluscs. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2009, 152, 423-430.	1.8	40
80	Growth in the slow lane: protein metabolism in the Antarctic limpet <i>Nacella concinna</i> (Strebel) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	1.7	37
81	Trace metals in the Antarctic soft-shelled clam <i>Laternula elliptica</i> : implications for metal pollution from Antarctic research stations. <i>Polar Biology</i> , 2001, 24, 808-817.	1.2	36
82	Movements and burrowing activity in the Antarctic bivalve molluscs <i>Laternula elliptica</i> and <i>Yoldia eightsi</i> . <i>Polar Biology</i> , 2004, 27, 357-367.	1.2	35
83	Multi-year observations on the gametogenic ecology of the Antarctic seastar <i>Odontaster validus</i> . <i>Marine Biology</i> , 2007, 153, 15-23.	1.5	35
84	Seasonal variation in the gametogenic ecology of the Antarctic scallop <i>Adamussium colbecki</i> . <i>Polar Biology</i> , 2003, 26, 727-733.	1.2	33
85	Thermal Reaction Norms and the Scale of Temperature Variation: Latitudinal Vulnerability of Intertidal Nacellid Limpets to Climate Change. <i>PLoS ONE</i> , 2012, 7, e52818.	2.5	29
86	Physiological flexibility: the key to success and survival for Antarctic fairy shrimps in highly fluctuating extreme environments. <i>Freshwater Biology</i> , 2004, 49, 1195-1205.	2.4	28
87	Low global sensitivity of metabolic rate to temperature in calcified marine invertebrates. <i>Oecologia</i> , 2014, 174, 45-54.	2.0	28
88	Thicker Shells Compensate Extensive Dissolution in Brachiopods under Future Ocean Acidification. <i>Environmental Science &amp; Technology</i> , 2019, 53, 5016-5026.	10.0	28
89	Protein Synthesis, RNA Concentrations, Nitrogen Excretion, and Metabolism Vary Seasonally in the Antarctic Holothurian <i>Heterocucumis steineni</i> (Ludwig 1898). <i>Physiological and Biochemical Zoology</i> , 2004, 77, 556-569.	1.5	27
90	Characterisation of the mantle transcriptome and biomineralisation genes in the blunt-gaper clam, <i>Mya truncata</i> . <i>Marine Genomics</i> , 2016, 27, 47-55.	1.1	27

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91	Ship traffic connects Antarctica's fragile coasts to worldwide ecosystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	27
92	A global horizon scan of issues impacting marine and coastal biodiversity conservation. <i>Nature Ecology and Evolution</i> , 2022, 6, 1262-1270.	7.8	27
93	Antarctic intertidal limpet ecophysiology: A winter's summer comparison. <i>Journal of Experimental Marine Biology and Ecology</i> , 2011, 403, 39-45.	1.5	25
94	Adaptation of Proteins to the Cold in Antarctic Fish: A Role for Methionine?. <i>Genome Biology and Evolution</i> , 2019, 11, 220-231.	2.5	25
95	Antarctic ecosystem responses following ice shelf collapse and iceberg calving: Science review and future research. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2021, 12, .	8.1	25
96	Resilience in Greenland intertidal <i>Mytilus</i> : The hidden stress defense. <i>Science of the Total Environment</i> , 2021, 767, 144366.	8.0	25
97	DeVries: the Art of not freezing fish. <i>Journal of Experimental Biology</i> , 2015, 218, 2146-2147.	1.7	24
98	Spatial and temporal dynamics of Antarctic shallow soft-bottom benthic communities: ecological drivers under climate change. <i>BMC Ecology</i> , 2019, 19, 27.	3.0	23
99	Metabolic flexibility: the key to long-term evolutionary success in Bryozoa?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, S18-21.	2.6	22
100	Invertebrate muscle performance at high latitude: swimming activity in the Antarctic scallop, <i>Adamussium colbecki</i> . <i>Polar Biology</i> , 2005, 28, 464-469.	1.2	21
101	Lack of long-term acclimation in Antarctic encrusting species suggests vulnerability to warming. <i>Nature Communications</i> , 2019, 10, 3383.	12.8	21
102	Legacy and Emerging Persistent Organic Pollutants in Antarctic Benthic Invertebrates near Rothera Point, Western Antarctic Peninsula. <i>Environmental Science &amp; Technology</i> , 2020, 54, 2763-2771.	10.0	21
103	Sweepstake reproductive success and collective dispersal produce chaotic genetic patchiness in a broadcast spawner. <i>Science Advances</i> , 2021, 7, eabj4713.	10.3	21
104	Thermal dependency of burrowing in three species within the bivalve genus <i>Laternula</i> : a latitudinal comparison. <i>Marine Biology</i> , 2009, 156, 1977-1984.	1.5	19
105	Limpet feeding rate and the consistency of physiological response to temperature. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2014, 184, 563-570.	1.5	18
106	Very slow embryonic and larval development in the Antarctic limpet <i>Nacella polaris</i> . <i>Polar Biology</i> , 2016, 39, 2273-2280.	1.2	15
107	Reproductive ecology of the circumpolar Antarctic nemertean <i>Parborlasia corrugatus</i> : No evidence for inter-annual variation. <i>Journal of Experimental Marine Biology and Ecology</i> , 2011, 404, 98-107.	1.5	14
108	Variability among individuals is generated at the gene expression level. <i>Ecology</i> , 2015, 96, 2004-2014.	3.2	14

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109	Molecular Responses to Thermal and Osmotic Stress in Arctic Intertidal Mussels ( <i>Mytilus edulis</i> ): The Limits of Resilience. <i>Genes</i> , 2022, 13, 155.	2.4	14
110	Burrowing in the Antarctic anemone, <i>Halcampoides</i> sp., from Signy Island, Antarctica. <i>Journal of Experimental Marine Biology and Ecology</i> , 2000, 252, 45-55.	1.5	13
111	Metabolic responses to temperature stress under elevated pCO <sub>2</sub> in <i>Crepidula fornicata</i> . <i>Journal of Molluscan Studies</i> , 2015, 81, 238-246.	1.2	13
112	A century of coping with environmental and ecological changes via compensatory biomineralization in mussels. <i>Global Change Biology</i> , 2021, 27, 624-639.	9.5	13
113	Latitudinal patterns in intertidal ecosystem structure in West Greenland suggest resilience to climate change. <i>Ecography</i> , 2021, 44, 1156-1168.	4.5	13
114	Remote Sensing Phenology of Antarctic Green and Red Snow Algae Using WorldView Satellites. <i>Frontiers in Plant Science</i> , 2021, 12, 671981.	3.6	13
115	Quantifying susceptibility of marine invertebrate biocomposites to dissolution in reduced pH. <i>Royal Society Open Science</i> , 2019, 6, 190252.	2.4	12
116	Global gradients in intertidal species richness and functional groups. <i>ELife</i> , 2021, 10, .	6.0	12
117	Hierarchical Population Genetic Structure in a Direct Developing Antarctic Marine Invertebrate. <i>PLoS ONE</i> , 2013, 8, e63954.	2.5	10
118	Morphological variation in taxonomic characters of the Antarctic starfish <i>Odontaster validus</i> . <i>Polar Biology</i> , 2018, 41, 2159-2165.	1.2	10
119	Large within, and between, species differences in marine cellular responses: Unpredictability in a changing environment. <i>Science of the Total Environment</i> , 2021, 794, 148594.	8.0	10
120	A Light, Portable Apparatus for the Assessment of Invertebrate Heartbeat Rate. <i>Journal of Experimental Biology</i> , 1988, 136, 495-498.	1.7	10
121	The reproductive ecology of the Antarctic bivalve <i>Aequiyoldia eightsi</i> (Protobranchia: Sareptidae) follows neither Antarctic nor taxonomic patterns. <i>Polar Biology</i> , 2018, 41, 1693-1706.	1.2	9
122	Growth of the Antarctic octocoral <i>Primnoella scotiae</i> and predation by the anemone <i>Dactylanthus antarcticus</i> . <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2013, 92, 73-78.	1.4	8
123	Seasonality of oxygen consumption in five common Antarctic benthic marine invertebrates. <i>Polar Biology</i> , 2018, 41, 897-908.	1.2	8
124	Benthic Biodiversity, Carbon Storage and the Potential for Increasing Negative Feedbacks on Climate Change in Shallow Waters of the Antarctic Peninsula. <i>Biology</i> , 2022, 11, 320.	2.8	8
125	Life Beyond the Ice. , 2015, , 229-252.		7
126	Shell thickness of <i>Nucella lapillus</i> in the North Sea increased over the last 130 years despite ocean acidification. <i>Communications Earth &amp; Environment</i> , 2022, 3, .	6.8	6



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127	Life in the freezer: protein metabolism in Antarctic fish. Royal Society Open Science, 2022, 9, 211272.	2.4	5
128	Juvenile morphology of the large Antarctic canopy-forming brown alga, <i>Desmarestia menziesii</i> J. Agardh. Polar Biology, 2019, 42, 2097-2103.	1.2	4
129	Multiyear trend in reproduction underpins interannual variation in gametogenic development of an Antarctic urchin. Scientific Reports, 2021, 11, 18868.	3.3	2
130	Understanding Adaptations and Responses to Change in Antarctica: Recent Physiological and Genomic Advances in Marine Environments. , 2012, , 157-182.		2
131	Evidence for Carbonate System Mediated Shape Shift in an Intertidal Predatory Gastropod. Frontiers in Marine Science, 0, 9, .	2.5	2
132	Response to van der Meer. Current Biology, 2017, 27, R1303-R1304.	3.9	1
133	Variable heat shock response in Antarctic biofouling serpulid worms. Cell Stress and Chaperones, 2021, 26, 945-954.	2.9	1
134	Life in the extreme environments of our planet under pressure. , 2020, , 151-183.		0
135	The ecophysiology of responding to change in polar marine benthos. , 2020, , 184-217.		0