

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/734715/publications.pdf>

Version: 2024-02-01

377  
papers

34,833  
citations

5574

82  
h-index

4774

169  
g-index

390  
all docs

390  
docs citations

390  
times ranked

19249  
citing authors

#	ARTICLE	IF	CITATIONS
1	Physiology and Climate Change. <i>Science</i> , 2008, 322, 690-692.	12.6	1,953
2	Climate Change Affects Marine Fishes Through the Oxygen Limitation of Thermal Tolerance. <i>Science</i> , 2007, 315, 95-97.	12.6	1,623
3	Climate variations and the physiological basis of temperature dependent biogeography: systemic to molecular hierarchy of thermal tolerance in animals. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2002, 132, 739-761.	1.8	1,152
4	Oxygen- and capacity-limitation of thermal tolerance: a matrix for integrating climate-related stressor effects in marine ecosystems. <i>Journal of Experimental Biology</i> , 2010, 213, 881-893.	1.7	1,121
5	Contrasting futures for ocean and society from different anthropogenic CO <sub>2</sub> emissions scenarios. <i>Science</i> , 2015, 349, aac4722.	12.6	1,059
6	Climate change and temperature-dependent biogeography: oxygen limitation of thermal tolerance in animals. <i>Die Naturwissenschaften</i> , 2001, 88, 137-146.	1.6	951
7	Climate change effects on fishes and fisheries: towards a cause&effect understanding. <i>Journal of Fish Biology</i> , 2010, 77, 1745-1779.	1.6	760
8	Ecosystem effects of ocean acidification in times of ocean warming: a physiologist's view. <i>Marine Ecology - Progress Series</i> , 2008, 373, 203-217.	1.9	697
9	Biological Impact of Elevated Ocean CO <sub>2</sub> Concentrations: Lessons from Animal Physiology and Earth History. <i>Journal of Oceanography</i> , 2004, 60, 705-718.	1.7	594
10	Impacts of ocean acidification on marine shelled molluscs. <i>Marine Biology</i> , 2013, 160, 2207-2245.	1.5	557
11	Climate change tightens a metabolic constraint on marine habitats. <i>Science</i> , 2015, 348, 1132-1135.	12.6	547
12	Physiological basis for high CO <sub>2</sub> tolerance in marine ectothermic animals: pre-adaptation through lifestyle and ontogeny?. <i>Biogeosciences</i> , 2009, 6, 2313-2331.	3.3	544
13	The human imperative of stabilizing global climate change at 1.5°C. <i>Science</i> , 2019, 365, .	12.6	498
14	Sensitivities of extant animal taxa to ocean acidification. <i>Nature Climate Change</i> , 2013, 3, 995-1001.	18.8	421
15	Oxygen- and capacity-limited thermal tolerance: bridging ecology and physiology. <i>Journal of Experimental Biology</i> , 2017, 220, 2685-2696.	1.7	410
16	Thermal bottlenecks in the life cycle define climate vulnerability of fish. <i>Science</i> , 2020, 369, 65-70.	12.6	373
17	Adult exposure influences offspring response to ocean acidification in oysters. <i>Global Change Biology</i> , 2012, 18, 82-92.	9.5	366
18	Synergistic effects of temperature extremes, hypoxia, and increases in CO <sub>2</sub> on marine animals: From Earth history to global change. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	357

#	ARTICLE	IF	CITATIONS
19	Impacts of hypoxia on the structure and processes in pelagic communities (zooplankton,) Tj ETQq1 1 0.784314 rgBT/Overlock 10 Tf 50	3.3	356
20	Impact of Ocean Acidification on Energy Metabolism of Oyster, <i>Crassostrea gigas</i> Changes in Metabolic Pathways and Thermal Response. <i>Marine Drugs</i> , 2010, 8, 2318-2339.	4.6	347
21	Trade-offs in Thermal Adaptation: The Need for a Molecular to Ecological Integration. <i>Physiological and Biochemical Zoology</i> , 2006, 79, 295-313.	1.5	324
22	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
23	Macrophysiology: A Conceptual Reunification. <i>American Naturalist</i> , 2009, 174, 595-612.	2.1	298
24	Climate induced temperature effects on growth performance, fecundity and recruitment in marine fish: developing a hypothesis for cause and effect relationships in Atlantic cod ( <i>Gadus morhua</i> ) and common eelpout ( <i>Zoarces viviparus</i> ). <i>Continental Shelf Research</i> , 2001, 21, 1975-1997.	1.8	287
25	Experimental strategies to assess the biological ramifications of multiple drivers of global ocean change A review. <i>Global Change Biology</i> , 2018, 24, 2239-2261.	9.5	285
26	Predicting the Response of Molluscs to the Impact of Ocean Acidification. <i>Biology</i> , 2013, 2, 651-692.	2.8	266
27	IPCC reasons for concern regarding climate change risks. <i>Nature Climate Change</i> , 2017, 7, 28-37.	18.8	266
28	Temperature-dependence of mitochondrial function and production of reactive oxygen species in the intertidal mud clam <i>Mya arenaria</i> . <i>Journal of Experimental Biology</i> , 2002, 205, 1831-41.	1.7	265
29	Oxygen limitation of thermal tolerance defined by cardiac and ventilatory performance in spider crab, <i>Maja squinado</i> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2000, 279, R1531-R1538.	1.8	264
30	Physiological and metabolic responses to hypoxia in invertebrates. <i>Reviews of Physiology, Biochemistry and Pharmacology</i> , 1993, 125, 43-147.	1.6	253
31	Integrating climate-related stressor effects on marine organisms: unifying principles linking molecule to ecosystem-level changes. <i>Marine Ecology - Progress Series</i> , 2012, 470, 273-290.	1.9	253
32	Ocean Solutions to Address Climate Change and Its Effects on Marine Ecosystems. <i>Frontiers in Marine Science</i> , 2018, 5, .	2.5	248
33	A framework for complex climate change risk assessment. <i>One Earth</i> , 2021, 4, 489-501.	6.8	244
34	Interactive effects of salinity and elevated CO2 levels on juvenile eastern oysters, <i>Crassostrea virginica</i> . <i>Journal of Experimental Biology</i> , 2012, 215, 29-43.	1.7	227
35	On the processes linking climate to ecosystem changes. <i>Journal of Marine Systems</i> , 2010, 79, 374-388.	2.1	219
36	Animal performance and stress: responses and tolerance limits at different levels of biological organisation. <i>Biological Reviews</i> , 2009, 84, 277-292.	10.4	213

#	ARTICLE	IF	CITATIONS
37	Behavioral, metabolic, and molecular stress responses of marine bivalve <i>Mytilus galloprovincialis</i> during long-term acclimation at increasing ambient temperature. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007, 293, R911-R921.	1.8	209
38	Antarctic climate change and the environment. <i>Antarctic Science</i> , 2009, 21, 541-563.	0.9	195
39	Metabolic plasticity and critical temperatures for aerobic scope in a eurythermal marine invertebrate ( <i>Littorina saxatilis</i> , Gastropoda: Littorinidae) from different latitudes. <i>Journal of Experimental Biology</i> , 2003, 206, 195-207.	1.7	194
40	Climate change and the oceans – What does the future hold?. <i>Marine Pollution Bulletin</i> , 2013, 74, 495-505.	5.0	191
41	A Roadmap for Using the UN Decade of Ocean Science for Sustainable Development in Support of Science, Policy, and Action. <i>One Earth</i> , 2020, 2, 34-42.	6.8	191
42	Temperature, metabolic power and the evolution of endothermy. <i>Biological Reviews</i> , 2010, 85, 703-727.	10.4	183
43	Oxidative stress during stressful heat exposure and recovery in the North Sea eelpout <i>Zoarces viviparus</i> L. <i>Journal of Experimental Biology</i> , 2006, 209, 353-363.	1.7	176
44	Determination of intracellular pH and PCO <sub>2</sub> after metabolic inhibition by fluoride and nitrilotriacetic acid. <i>Respiration Physiology</i> , 1990, 81, 255-273.	2.7	175
45	Exposure to elevated temperatures and hydrogen peroxide elicits oxidative stress and antioxidant response in the Antarctic intertidal limpet <i>Nacella concinna</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1998, 120, 425-435.	1.6	169
46	Influence of elevated CO <sub>2</sub> concentrations on thermal tolerance of the edible crab <i>Cancer pagurus</i> . <i>Journal of Thermal Biology</i> , 2007, 32, 144-151.	2.5	169
47	Persistence of Positive Carryover Effects in the Oyster, <i>Saccostrea glomerata</i> , following Transgenerational Exposure to Ocean Acidification. <i>PLoS ONE</i> , 2015, 10, e0132276.	2.5	145
48	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
49	Effects of ocean acidification and warming on the larval development of the spider crab <i>Hyas araneus</i> from different latitudes (54° vs. 79°N). <i>Marine Ecology - Progress Series</i> , 2010, 417, 159-170.	1.9	142
50	Physiological ecology meets climate change. <i>Ecology and Evolution</i> , 2015, 5, 1025-1030.	1.9	138
51	Metabolic Depression During Environmental Stress: The Role of Extracellular versus Intracellular pH in <i>Sipunculus Nudus</i> . <i>Journal of Experimental Biology</i> , 1996, 199, 1801-1807.	1.7	138
52	Climate-dependent evolution of Antarctic ectotherms: An integrative analysis. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 1071-1104.	1.4	136
53	Swimming performance in Atlantic Cod ( <i>Gadus morhua</i> ) following long-term (4–12 months) acclimation to elevated seawater PCO <sub>2</sub> . <i>Aquatic Toxicology</i> , 2009, 92, 30-37.	4.0	136
54	Impacts of seawater acidification on mantle gene expression patterns of the Baltic Sea blue mussel: implications for shell formation and energy metabolism. <i>Marine Biology</i> , 2013, 160, 1845-1861.	1.5	134

#	ARTICLE	IF	CITATIONS
55	Physiological basis of temperature-dependent biogeography: trade-offs in muscle design and performance in polar ectotherms. <i>Journal of Experimental Biology</i> , 2002, 205, 2217-30.	1.7	133
56	CHALLENGING THE COLD: CRABS RECONQUER THE ANTARCTIC. <i>Ecology</i> , 2005, 86, 619-625.	3.2	128
57	Acid-Base Regulation, Metabolism and Energetics in <i>Sipunculus Nudus</i> As a Function of Ambient Carbon Dioxide Level. <i>Journal of Experimental Biology</i> , 1998, 201, 43-55.	1.7	126
58	Extra- and intracellular acid-base balance and ionic regulation in cod ( <i>Gadus morhua</i> ) during combined and isolated exposures to hypercapnia and copper. <i>Marine Biology</i> , 1997, 128, 337-346.	1.5	123
59	Cod and climate in a latitudinal cline: physiological analyses of climate effects in marine fishes. <i>Climate Research</i> , 2008, 37, 253-270.	1.1	120
60	Effects of long-term acclimation to environmental hypercapnia on extracellular acid-base status and metabolic capacity in Mediterranean fish <i>Sparus aurata</i> . <i>Marine Biology</i> , 2007, 150, 1417-1429.	1.5	119
61	Impacts of hypoxic events surpass those of future ocean warming and acidification. <i>Nature Ecology and Evolution</i> , 2021, 5, 311-321.	7.8	116
62	Modelling climate change impacts on marine fish populations: process-based integration of ocean warming, acidification and other environmental drivers. <i>Fish and Fisheries</i> , 2016, 17, 972-1004.	5.3	115
63	Intracellular pH and energy metabolism in the highly stenothermal Antarctic bivalve <i>Limopsis marionensis</i> as a function of ambient temperature. <i>Polar Biology</i> , 1999, 22, 17-30.	1.2	114
64	Production of reactive oxygen species by isolated mitochondria of the Antarctic bivalve <i>Laternula elliptica</i> (King and Broderip) under heat stress. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2003, 134, 79-90.	2.6	114
65	Response of <i>Mytilus galloprovincialis</i> (L.) to increasing seawater temperature and to marteliosis: Metabolic and physiological parameters. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2010, 156, 57-66.	1.8	114
66	Growth and calcification in the cephalopod <i>Sepia officinalis</i> under elevated seawater pCO <sub>2</sub> . <i>Marine Ecology - Progress Series</i> , 2008, 373, 303-309.	1.9	113
67	Metabolic shifts in the Antarctic fish <i>Notothenia rossii</i> in response to rising temperature and PCO <sub>2</sub> . <i>Frontiers in Zoology</i> , 2012, 9, 28.	2.0	111
68	Environmental and functional limits to muscular exercise and body size in marine invertebrate athletes. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2002, 133, 303-321.	1.8	110
69	Mitochondrial mechanisms of cold adaptation in cod ( <i>Gadus morhua</i> L.) populations from different climatic zones. <i>Journal of Experimental Biology</i> , 2006, 209, 2462-2471.	1.7	110
70	Impact of anthropogenic ocean acidification on thermal tolerance of the spider crab <i>Hyas araneus</i> . <i>Biogeosciences</i> , 2009, 6, 2207-2215.	3.3	108
71	Temperature induced anaerobiosis in two populations of the polychaete worm <i>Arenicola marina</i> (L.). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1997, 167, 25-35.	1.5	106
72	Oxygen limited thermal tolerance in fish?. <i>Respiratory Physiology and Neurobiology</i> , 2004, 141, 243-260.	1.6	106

#	ARTICLE	IF	CITATIONS
73	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
74	Get ready for ocean acidification. <i>Nature</i> , 2013, 498, 429-429.	27.8	103
75	Acid-base regulatory ability of the cephalopod ( <i>Sepia officinalis</i> ) in response to environmental hypercapnia. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2010, 180, 323-335.	1.5	102
76	Niche Dimensions in Fishes: An Integrative View. <i>Physiological and Biochemical Zoology</i> , 2010, 83, 808-826.	1.5	100
77	Metabolic power budgeting and adaptive strategies in zoology: examples from scallops and fish The present review is one of a series of occasional review articles that have been invited by the Editors and will feature the broad range of disciplines and expertise represented in our Editorial Advisory Board.. <i>Canadian Journal of Zoology</i> , 2010, 88, 753-763.	1.0	100
78	Biological Impacts of Thermal Extremes: Mechanisms and Costs of Functional Responses Matter. <i>Integrative and Comparative Biology</i> , 2016, 56, 73-84.	2.0	95
79	How does oxidative stress relate to thermal tolerance in the Antarctic bivalve <i>Yoldia eightsi</i> ?. <i>Antarctic Science</i> , 2001, 13, 111-118.	0.9	94
80	Acclimation of ion regulatory capacities in gills of marine fish under environmental hypercapnia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 295, R1660-R1670.	1.8	93
81	Oxygen limitation of thermal tolerance in cod, <i>Gadus morhua</i> L., studied by magnetic resonance imaging and on-line venous oxygen monitoring. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004, 287, R902-R910.	1.8	91
82	Magnetic resonance imaging of sea-ice pore fluids: methods and thermal evolution of pore microstructure. <i>Cold Regions Science and Technology</i> , 2000, 31, 207-225.	3.5	90
83	Cuttlebone calcification increases during exposure to elevated seawater pCO <sub>2</sub> in the cephalopod <i>Sepia officinalis</i> . <i>Marine Biology</i> , 2010, 157, 1653-1663.	1.5	89
84	Oxygen-limited thermal tolerance in Antarctic fish investigated by MRI and <sup>31</sup> P-MRS. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2002, 283, R1254-R1262.	1.8	88
85	Oxidative Stress and Digestive Enzyme Activity of Flatfish Larvae in a Changing Ocean. <i>PLoS ONE</i> , 2015, 10, e0134082.	2.5	87
86	Oxidative stress and antioxidative defense in cephalopods: a function of metabolic rate or age?. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2000, 125, 147-160.	1.6	85
87	Seasonality of energetic functioning and production of reactive oxygen species by lugworm ( <i>Arenicola marina</i> ) mitochondria exposed to acute temperature changes. <i>Journal of Experimental Biology</i> , 2004, 207, 2529-2538.	1.7	85
88	The cost of being a caring mother: the ignored factor in the reproduction of marine invertebrates. <i>Ecology Letters</i> , 2000, 3, 487-494.	6.4	84
89	Integrating climate change in ocean planning. <i>Nature Sustainability</i> , 2020, 3, 505-516.	23.7	83
90	Constraints and trade-offs in climate-dependent adaptation: energy budgets and growth in a latitudinal cline. <i>Scientia Marina</i> , 2005, 69, 271-285.	0.6	80

#	ARTICLE	IF	CITATIONS
91	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
92	Distribution patterns of decapod crustaceans in polar areas: a result of magnesium regulation?. <i>Polar Biology</i> , 2001, 24, 719-723.	1.2	79
93	Growth efficiency and temperature in scallops: a comparative analysis of species adapted to different temperatures. <i>Functional Ecology</i> , 2004, 18, 641-647.	3.6	79
94	Potential impacts of future ocean acidification on marine ecosystems and fisheries: current knowledge and recommendations for future research. <i>ICES Journal of Marine Science</i> , 2011, 68, 1019-1029.	2.5	79
95	Climate Variability and the Energetic Pathways of Evolution: The Origin of Endothermy in Mammals and Birds. <i>Physiological and Biochemical Zoology</i> , 2004, 77, 959-981.	1.5	75
96	Modulation of the cost of pHi regulation during metabolic depression: a (31)P-NMR study in invertebrate ( <i>Sipunculus nudus</i> ) isolated muscle. <i>Journal of Experimental Biology</i> , 2000, 203, 2417-28.	1.7	75
97	Energy budget of hepatocytes from Antarctic fish ( <i>Pachycara brachycephalum</i> and <i>Lepidonotothen</i> ) <i>Tj ETQq1 1 0.784314 rgBT /Overl</i> <i>Journal of Experimental Biology</i> , 2003, 206, 3895-3903.	1.7	73
98	Effects of seasonal and latitudinal cold on oxidative stress parameters and activation of hypoxia inducible factor (HIF-1) in zoarcid fish. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2007, 177, 765-777.	1.5	72
99	Stress response or beneficial temperature acclimation: transcriptomic signatures in Antarctic fish ( <i>Pachycara brachycephalum</i> ). <i>Molecular Ecology</i> , 2014, 23, 3469-3482.	3.9	72
100	Metabolic Biochemistry: Its Role in Thermal Tolerance and in the Capacities of Physiological and Ecological Function. <i>Fish Physiology</i> , 2005, 22, 79-154.	0.8	71
101	Resistance to freshwater exposure in White Sea <i>Littorina</i> spp. I: Anaerobic metabolism and energetics. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2000, 170, 91-103.	1.5	70
102	Thermal acclimation in Antarctic fish: transcriptomic profiling of metabolic pathways. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R1453-R1466.	1.8	70
103	Gene expression profiling in gills of the great spider crab <i>Hyas araneus</i> in response to ocean acidification and warming. <i>BMC Genomics</i> , 2014, 15, 789.	2.8	70
104	Mitochondrial Acclimation Capacities to Ocean Warming and Acidification Are Limited in the Antarctic Nototheniid Fish, <i>Notothenia rossii</i> and <i>Lepidonotothen squamifrons</i> . <i>PLoS ONE</i> , 2013, 8, e68865.	2.5	70
105	Elevated temperature and PCO2 shift metabolic pathways in differentially oxidative tissues of <i>Notothenia rossii</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2013, 166, 48-57.	1.6	69
106	Temperature effects on key metabolic enzymes in <i>Littorina saxatilis</i> and <i>L. obtusata</i> from different latitudes and shore levels. <i>Marine Biology</i> , 2001, 139, 113-126.	1.5	68
107	Impact of ocean acidification and warming on the Mediterranean mussel ( <i>Mytilus galloprovincialis</i> ). <i>Frontiers in Marine Science</i> , 2014, 1, .	2.5	68
108	Differential impacts of ocean acidification and warming on winter and summer progeny of a coastal squid ( <i>Loligo vulgaris</i> ). <i>Journal of Experimental Biology</i> , 2014, 217, 518-525.	1.7	68

#	ARTICLE	IF	CITATIONS
109	Thermal sensitivity of mitochondrial function in the Antarctic Notothenioid <i>Lepidonotothen nudifrons</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1999, 169, 597-604.	1.5	66
110	Exposure history determines pteropod vulnerability to ocean acidification along the US West Coast. <i>Scientific Reports</i> , 2017, 7, 4526.	3.3	66
111	Chronological and physiological ageing in a polar and a temperate mud clam. <i>Mechanisms of Ageing and Development</i> , 2005, 126, 598-609.	4.6	65
112	Impact of ocean acidification on escape performance of the king scallop, <i>Pecten maximus</i> , from Norway. <i>Marine Biology</i> , 2013, 160, 1995-2006.	1.5	65
113	Can respiratory physiology predict thermal niches?. <i>Annals of the New York Academy of Sciences</i> , 2016, 1365, 73-88.	3.8	65
114	Estimating the global risk of anthropogenic climate change. <i>Nature Climate Change</i> , 2021, 11, 879-885.	18.8	65
115	Metabolic and molecular stress responses of sublittoral bearded horse mussel <i>Modiolus barbatus</i> to warming sea water: implications for vertical zonation. <i>Journal of Experimental Biology</i> , 2008, 211, 2889-2898.	1.7	64
116	Contributions of anaerobic metabolism to pH regulation in animal tissues: theory. <i>Journal of Experimental Biology</i> , 1987, 131, 69-87.	1.7	64
117	Determination of intracellular buffer values after metabolic inhibition by fluoride and nitrilotriacetic acid. <i>Respiration Physiology</i> , 1990, 81, 275-288.	2.7	63
118	Climate sensitivity across marine domains of life: limits to evolutionary adaptation shape species interactions. <i>Global Change Biology</i> , 2014, 20, 3059-3067.	9.5	63
119	Changes in metabolic rate and N excretion in the marine invertebrate <i>Sipunculus nudus</i> under conditions of environmental hypercapnia: identifying effective acid-base variables. <i>Journal of Experimental Biology</i> , 2002, 205, 1153-60.	1.7	63
120	Temperature adaptation in eurythermal cod ( <i>Gadus morhua</i> ): a comparison of mitochondrial enzyme capacities in boreal and Arctic populations. <i>Marine Biology</i> , 2003, 142, 589-599.	1.5	62
121	A role for haemolymph oxygen capacity in heat tolerance of eurythermal crabs. <i>Frontiers in Physiology</i> , 2013, 4, 110.	2.8	62
122	Energy metabolism and ATP free-energy change of the intertidal worm <i>Sipunculus nudus</i> below a critical temperature. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1996, 166, 492-500.	1.5	61
123	Metabolic and molecular stress responses of the gilthead seabream <i>Sparus aurata</i> during long-term exposure to increasing temperatures. <i>Marine Biology</i> , 2009, 156, 797-809.	1.5	61
124	Metabolic and molecular stress responses of gilthead seabream <i>Sparus aurata</i> during exposure to low ambient temperature: an analysis of mechanisms underlying the winter syndrome. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2010, 180, 1005-1018.	1.5	61
125	Effects of environmental hypercapnia on animal physiology: A <sup>13</sup> C NMR study of protein synthesis rates in the marine invertebrate <i>Sipunculus nudus</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2006, 144, 479-484.	1.8	60
126	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



#	ARTICLE	IF	CITATIONS
127	Combined effects of short-term exposure to elevated CO <sub>2</sub> and decreased O <sub>2</sub> on the physiology and energy budget of the thick shell mussel <i>Mytilus coruscus</i> . <i>Chemosphere</i> , 2016, 155, 207-216.	8.2	59
128	Antioxidant response of the hard shelled mussel <i>Mytilus coruscus</i> exposed to reduced pH and oxygen concentration. <i>Ecotoxicology and Environmental Safety</i> , 2017, 137, 94-102.	6.0	59
129	Metabolic Rates at Different Oxygen Levels Determined by Direct and Indirect Calorimetry in the Oxyconformer <i>Sipunculus Nudus</i> . <i>Journal of Experimental Biology</i> , 1991, 157, 143-160.	1.7	59
130	Temperature-dependent changes in energy metabolism, intracellular pH and blood oxygen tension in the Atlantic cod. <i>Journal of Fish Biology</i> , 2003, 62, 1239-1253.	1.6	58
131	Oxidative stress and HIF-1 DNA binding during stressful cold exposure and recovery in the North Sea eelpout ( <i>Zoarces viviparus</i> ). <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2006, 143, 494-503.	1.8	58
132	Cadmium-dependent oxygen limitation affects temperature tolerance in eastern oysters ( <i>Crassostrea virginica</i> Gmelin). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 294, R1338-R1346.	1.8	58
133	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
134	Ocean acidification narrows the acute thermal and salinity tolerance of the Sydney rock oyster <i>Saccostrea glomerata</i> . <i>Marine Pollution Bulletin</i> , 2017, 122, 263-271.	5.0	57
135	Mitochondrial proliferation in the permanent vs. temporary cold: enzyme activities and mRNA levels in Antarctic and temperate zoarcid fish. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2003, 285, R1410-R1420.	1.8	56
136	High sensitivity to chronically elevated CO <sub>2</sub> levels in a eurybathic marine sipunculid. <i>Aquatic Toxicology</i> , 2004, 70, 55-61.	4.0	56
137	Thermal tolerance of crustacean larvae (zoea I) in two different populations of the kelp crab <i>Taliepus dentatus</i> (Milne-Edwards). <i>Journal of Experimental Biology</i> , 2009, 212, 1371-1376.	1.7	56
138	Foraging behaviour, swimming performance and malformations of early stages of commercially important fishes under ocean acidification and warming. <i>Climatic Change</i> , 2016, 137, 495-509.	3.6	56
139	Oxygen-dependent asynchrony of embryonic development in embryo masses of brachyuran crabs. <i>Marine Biology</i> , 2003, 142, 559-565.	1.5	55
140	Thermal limits of burrowing capacity are linked to oxygen availability and size in the Antarctic clam <i>Laternula elliptica</i> . <i>Oecologia</i> , 2007, 154, 479-484.	2.0	54
141	Metabolic adaptation of the intertidal worm <i>Sipunculus nudus</i> to functional and environmental hypoxia. <i>Marine Biology</i> , 1984, 79, 237-247.	1.5	53
142	Mitochondrial ageing of a polar and a temperate mud clam. <i>Mechanisms of Ageing and Development</i> , 2005, 126, 610-619.	4.6	53
143	Aerobic mitochondrial capacities in Antarctic and temperate eelpout (Zoarcidae) subjected to warm versus cold acclimation. <i>Polar Biology</i> , 2005, 28, 575-584.	1.2	53
144	Anaerobic metabolic patterns related to stress responses in hypoxia exposed mussels <i>Mytilus galloprovincialis</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2010, 394, 123-133.	1.5	53

#	ARTICLE	IF	CITATIONS
145	Age-dependence of metabolism in mussels <i>Mytilus edulis</i> (L.) from the White Sea. <i>Journal of Experimental Marine Biology and Ecology</i> , 2001, 257, 53-72.	1.5	52
146	Mitochondrial Function in Seasonal Acclimatization versus Latitudinal Adaptation to Cold in the Lugworm <i>Arenicola marina</i> (L.). <i>Physiological and Biochemical Zoology</i> , 2004, 77, 174-186.	1.5	52
147	Anaerobiosis and acid-base status in marine invertebrates: a theoretical analysis of proton generation by anaerobic metabolism. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1984, 155, 1-12.	1.5	51
148	Improved heat tolerance in air drives the recurrent evolution of air-breathing. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20132927.	2.6	51
149	New encounters in Arctic waters: a comparison of metabolism and performance of polar cod ( <i>Boreogadus saida</i> ) and Atlantic cod ( <i>Gadus morhua</i> ) under ocean acidification and warming. <i>Polar Biology</i> , 2016, 39, 1137-1153.	1.2	51
150	Thermal tolerance of larval stages of the Chilean kelp crab <i>Taliepus dentatus</i> . <i>Marine Ecology - Progress Series</i> , 2011, 429, 157-167.	1.9	51
151	Actions to halt biodiversity loss generally benefit the climate. <i>Global Change Biology</i> , 2022, 28, 2846-2874.	9.5	51
152	Mitochondrial oxyconformity and cold adaptation in the polychaete <i>Nereis pelagica</i> and the bivalve <i>Arctica islandica</i> from the Baltic and White Seas. <i>Journal of Experimental Biology</i> , 2000, 203, 3355-68.	1.7	51
153	Hypercapnia induced shifts in gill energy budgets of Antarctic notothenioids. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2010, 180, 347-359.	1.5	50
154	Implications of the Paris agreement for the ocean. <i>Nature Climate Change</i> , 2016, 6, 732-735.	18.8	50
155	Effects of ocean acidification increase embryonic sensitivity to thermal extremes in Atlantic cod, <i>Gadus morhua</i> . <i>Global Change Biology</i> , 2017, 23, 1499-1510.	9.5	50
156	Northern cod species face spawning habitat losses if global warming exceeds 1.5°C. <i>Science Advances</i> , 2018, 4, eaas8821.	10.3	50
157	Energetic aspects of cold adaptation: critical temperatures in metabolic, ionic and acid-base regulation?. , 1998, , 88-120.		49
158	Temperature-dependent expression of cytochrome-c oxidase in Antarctic and temperate fish. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1999, 277, R508-R516.	1.8	49
159	Thermal physiology of the common eelpout ( <i>Zoarces viviparus</i> ). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2003, 173, 365-378.	1.5	49
160	Temperature-dependent energy allocation to growth in Antarctic and boreal eelpout (Zoaridae). <i>Polar Biology</i> , 2006, 30, 95-107.	1.2	49
161	Lower hypoxia thresholds of cuttlefish early life stages living in a warm acidified ocean. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20131695.	2.6	49
162	Lake Baikal amphipods under climate change: thermal constraints and ecological consequences. <i>Ecosphere</i> , 2016, 7, e01308.	2.2	49

#	ARTICLE	IF	CITATIONS
163	A new function for lactate in the toad <i>Bufo marinus</i> . <i>Journal of Applied Physiology</i> , 1994, 76, 2405-2410.	2.5	48
164	Adapting to Climate Change. <i>Science</i> , 2009, 323, 876-877.	12.6	48
165	A snapshot of ocean acidification research. <i>Marine Biology</i> , 2013, 160, 1765-1771.	1.5	48
166	Indicators of oxygen- and capacity-limited thermal tolerance in the lugworm <i>Arenicola marina</i> . <i>Climate Research</i> , 2008, 37, 227-240.	1.1	48
167	Governing for Transformative Change across the Biodiversityâ€“Climateâ€“Society Nexus. <i>BioScience</i> , 2022, 72, 684-704.	4.9	48
168	Anaerobiosis and acid-base status in marine invertebrates: effect of environmental hypoxia on extracellular and intracellular pH in <i>Sipunculus nudus</i> L.. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1984, 155, 13-20.	1.5	47
169	Coordination of metabolism, acidâ€“base regulation and haemocyanin function in cephalopods. <i>Marine and Freshwater Behaviour and Physiology</i> , 1995, 25, 131-148.	0.9	47
170	In vivo MR spectroscopy and MR imaging on non-anaesthetized marine fish: techniques and first results. <i>Magnetic Resonance Imaging</i> , 2002, 20, 165-172.	1.8	47
171	Thermal performance of the European flat oyster, <i>Ostrea edulis</i> (Linnaeus, 1758)â€“explaining ecological findings under climate change. <i>Marine Biology</i> , 2020, 167, 1.	1.5	47
172	Simultaneous observations of haemolymph flow and ventilation in marine spider crabs at different temperatures: a flow weighted MRI study. <i>Magnetic Resonance Imaging</i> , 2001, 19, 1113-1124.	1.8	46
173	Role of blood-oxygen transport in thermal tolerance of the cuttlefish, <i>Sepia officinalis</i> . <i>Integrative and Comparative Biology</i> , 2007, 47, 645-655.	2.0	46
174	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
175	Impact of ocean acidification on thermal tolerance and acidâ€“base regulation of <i>Mytilus edulis</i> (L.) from the North Sea. <i>Journal of Experimental Marine Biology and Ecology</i> , 2015, 473, 16-25.	1.5	46
176	Effects of temperature acclimation on lactate dehydrogenase of cod ( <i>Gadus morhua</i> ): genetic, kinetic and thermodynamic aspects. <i>Journal of Experimental Biology</i> , 2004, 207, 95-112.	1.7	45
177	Critical temperatures in the cephalopod <i>Sepia officinalis</i> investigated using in vivo <sup>31</sup> P NMR spectroscopy. <i>Journal of Experimental Biology</i> , 2006, 209, 891-906.	1.7	45
178	Metabolic suppression during protracted exposure to hypoxia in the jumbo squid, <i>Dosidicus gigas</i> , living in an oxygen minimum zone. <i>Journal of Experimental Biology</i> , 2014, 217, 2555-68.	1.7	45
179	Mitochondrial acclimation potential to ocean acidification and warming of Polar cod ( <i>Boreogadus</i> )	1.7	45
180	Highâ€“Energy Phosphate Metabolism during Exercise and Recovery in Temperate and Antarctic Scallops: An In Vivo <sup>31</sup> Pâ€“NMR Study. <i>Physiological and Biochemical Zoology</i> , 2003, 76, 622-633.	1.5	44

#	ARTICLE	IF	CITATIONS
181	The synergistic effects of increasing temperature and CO <sub>2</sub> levels on activity capacity and acid–base balance in the spider crab, <i>Hyas araneus</i> . <i>Marine Biology</i> , 2013, 160, 2049-2062.	1.5	44
182	Impacts of Climate Variability and Change on (Marine) Animals: Physiological Underpinnings and Evolutionary Consequences. <i>Integrative and Comparative Biology</i> , 2016, 56, 31-44.	2.0	44
183	Sea level rise risks and societal adaptation benefits in low-lying coastal areas. <i>Scientific Reports</i> , 2022, 12, .	3.3	44
184	Synergistic effects of acute warming and low pH on cellular stress responses of the gilthead seabream <i>Sparus aurata</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2015, 185, 185-205.	1.5	43
185	Nothing in experimental biology makes sense except in the light of ecology and evolution – correspondence on <i>J. Exp. Biol.</i> 216, 2771-2782. <i>Journal of Experimental Biology</i> , 2013, 216, 4494-4495.	1.7	42
186	How and how not to investigate the oxygen and capacity limitation of thermal tolerance (OCLTT) and aerobic scope – remarks on the article by GrÅns et al.. <i>Journal of Experimental Biology</i> , 2014, 217, 4432-4433.	1.7	42
187	Oxygen consumption and mode of energy production in the intertidal worm <i>Sipunculus nudus</i> L.: Definition and characterization of the critical PO <sub>2</sub> for an oxyconformer. <i>Respiration Physiology</i> , 1985, 59, 361-377.	2.7	41
188	Environmental constraints and the physiology of performance in squids. <i>African Journal of Marine Science</i> , 1998, 20, 207-221.	0.6	41
189	Impacts of temperature and acidification on larval calcium incorporation of the spider crab <i>Hyas araneus</i> from different latitudes (54° vs. 79°N). <i>Marine Biology</i> , 2011, 158, 2043-2053.	1.5	41
190	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
191	Metabolic response and thermal tolerance of green abalone juveniles ( <i>Haliotis fulgens</i> : Gastropoda) under acute hypoxia and hypercapnia. <i>Journal of Experimental Marine Biology and Ecology</i> , 2017, 497, 11-18.	1.5	40
192	Climate impacts on organisms, ecosystems and human societies: integrating OCLTT into a wider context. <i>Journal of Experimental Biology</i> , 2021, 224, .	1.7	40
193	Squid (<i>Lolliguncula Brevis</i>) Life in Shallow Waters: Oxygen Limitation of Metabolism and Swimming Performance. <i>Journal of Experimental Biology</i> , 1996, 199, 911-921.	1.7	40
194	Temperature-dependent protein synthesis capacities in Antarctic and temperate (North Sea) fish (Zoarcidae). <i>Journal of Experimental Biology</i> , 2005, 208, 2409-2420.	1.7	39
195	Monitoring the biochemical and cellular responses of marine bivalves during thermal stress by using biomarkers. <i>Marine Environmental Research</i> , 2012, 73, 70-77.	2.5	39
196	Ocean warming and acidification modulate energy budget and gill ion regulatory mechanisms in Atlantic cod ( <i>Gadus morhua</i> ). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2015, 185, 767-781.	1.5	39
197	Contributions of anaerobic metabolism to pH regulation in animal tissues: theory. <i>Journal of Experimental Biology</i> , 1987, 131, 69-87.	1.7	39
198	Recovery from anaerobiosis of the lugworm, <i>Arenicola marina</i> L.: Changes of metabolite concentrations in the body-wall musculature. <i>Journal of Comparative Physiology – B</i> , 1979, 133, 227-231.	2.0	38

#	ARTICLE	IF	CITATIONS
199	Connecting to ecology: a challenge for comparative physiologists? Response to "Oxygen- and capacity-limited thermal tolerance: blurring ecology and physiology". <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	38
200	Temperature and energetics: an introduction to cold ocean physiology. , 1998, , 3-30.		37
201	Temperature-dependent oxygen extraction from the ventilatory current and the costs of ventilation in the cephalopod <i>Sepia officinalis</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2006, 176, 607-621.	1.5	37
202	Involvement of p38 MAPK in the Induction of Hsp70 During Acute Thermal Stress in Red Blood Cells of the Gilthead Sea Bream, <i>Sparus aurata</i> . <i>Journal of Experimental Zoology</i> , 2012, 317, 303-310.	1.2	37
203	An Analysis of the Effects of pH on Oxygen Binding by Squid ( <i>Illex illecebrosus</i> , <i>Loligo Pealei</i> ) Haemocyanin. <i>Journal of Experimental Biology</i> , 1990, 150, 407-424.	1.7	37
204	Survivorship of juvenile surf clams <i>Donax serra</i> (Bivalvia, Donacidae) exposed to severe hypoxia and hydrogen sulphide. <i>Journal of Experimental Marine Biology and Ecology</i> , 2002, 271, 9-23.	1.5	36
205	Temperature-dependent lipid levels and components in polar and temperate eelpout (Zoarcidae). <i>Fish Physiology and Biochemistry</i> , 2008, 34, 261-274.	2.3	36
206	Metabolic efficiency in yeast <i>Saccharomyces cerevisiae</i> in relation to temperature dependent growth and biomass yield. <i>Journal of Thermal Biology</i> , 2015, 52, 117-129.	2.5	36
207	The Anaerobic Endproduct Lactate Has a Behavioural and Metabolic Signalling Function in the Shore Crab <i>Carcinus Maenas</i> . <i>Journal of Experimental Biology</i> , 1997, 200, 1015-1024.	1.7	36
208	Physiological ageing in a temperate and a polar swimming scallop. <i>Marine Ecology - Progress Series</i> , 2006, 307, 187-198.	1.9	36
209	The trade-off between heat tolerance and metabolic cost drives the bimodal life strategy at the air-water interface. <i>Scientific Reports</i> , 2016, 6, 19158.	3.3	35
210	Comparison of Aerobic Scope for Metabolic Activity in Aquatic Ectotherms With Temperature Related Metabolic Stimulation: A Novel Approach for Aerobic Power Budget. <i>Frontiers in Physiology</i> , 2018, 9, 1438.	2.8	35
211	Feeding, metabolism and metabolic scope in Antarctic marine ectotherms. , 1998, , 365-390.		34
212	Temperature-dependent pH regulation in stenothermal Antarctic and eurythermal temperate eelpout (Zoarcidae): an in-vivo NMR study. <i>Polar Biology</i> , 2001, 24, 869-874.	1.2	34
213	Thermal sensitivity of cellular energy budgets in some Antarctic fish hepatocytes. <i>Polar Biology</i> , 2005, 28, 805-814.	1.2	34
214	Thermal sensitivity of uncoupling protein expression in polar and temperate fish. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2006, 1, 365-374.	1.0	34
215	Mitochondrial dynamics underlying thermal plasticity of cuttlefish ( <i>Sepia officinalis</i> ) hearts. <i>Journal of Experimental Biology</i> , 2012, 215, 2992-3000.	1.7	34
216	Seasonal variations of cellular stress response of the gilthead sea bream ( <i>Sparus aurata</i> ). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2013, 183, 625-639.	1.5	34

#	ARTICLE	IF	CITATIONS
217	Metabolic Responses of the Toad <i>Bufo marinus</i> to Environmental Hypoxia: An Analysis of the Critical P <sub>50</sub> . <i>Physiological Zoology</i> , 1991, 64, 836-849.	1.5	33
218	Seasonal patterns of metabolism and the heat shock response (HSR) in farmed mussels <i>Mytilus galloprovincialis</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2009, 381, 136-144.	1.5	33
219	Oxyconformity in the intertidal worm <i>Sipunculus nudus</i> : the mitochondrial background and energetic consequences. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2001, 129, 109-120.	1.6	32
220	Do drivers of biodiversity change differ in importance across marine and terrestrial systems? Or is it just different research communities' perspectives?. <i>Science of the Total Environment</i> , 2017, 574, 191-203.	8.0	32
221	Marine clade sensitivities to climate change conform across timescales. <i>Nature Climate Change</i> , 2020, 10, 249-253.	18.8	32
222	Anaerobic Metabolism and Changes in Acid-Base Status: Quantitative Interrelationships and pH Regulation in the Marine Worm <i>Sipunculus Nudus</i> . <i>Journal of Experimental Biology</i> , 1987, 131, 89-105.	1.7	32
223	A review of ammonia-mediated buoyancy in squids (cephalopoda: Teuthoidea). <i>Marine and Freshwater Behaviour and Physiology</i> , 1995, 25, 193-203.	0.9	31
224	Temperature Effects on Hemocyanin Oxygen Binding in an Antarctic Cephalopod. <i>Biological Bulletin</i> , 2001, 200, 67-76.	1.8	31
225	Latitudinal comparisons of reproductive traits in five Brachyuran species along the Chilean coast. <i>Revista Chilena De Historia Natural</i> , 2004, 77, 15.	1.2	31
226	An examination of the metabolic processes underpinning critical swimming in Atlantic cod ( <i>Gadus</i> ). <i>Journal of Experimental Biology</i> , 2004, 177, 3749-3756.	1.7	31
227	Acid-base regulation in exercising squid ( <i>Illex illecebrosus</i> , <i>Loligo pealei</i> ). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1991, 261, R239-R246.	1.8	30
228	Resistance to freshwater exposure in White Sea <i>Littorina</i> spp. II: Acid-base regulation. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2000, 170, 105-115.	1.5	30
229	How does the cold stenothermal gadoid <i>Lota lota</i> survive high water temperatures during summer?. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2004, 174, 149-156.	1.5	30
230	Chapter 4 Oxygen and Capacity Limited Thermal Tolerance. <i>Fish Physiology</i> , 2009, , 143-191.	0.8	30
231	Climate change reduces offspring fitness in littoral spawners: a study integrating organismic response and long-term time-series. <i>Global Change Biology</i> , 2013, 19, 373-386.	9.5	30
232	Thermal Preference Ranges Correlate with Stable Signals of Universal Stress Markers in Lake Baikal Endemic and Holarctic Amphipods. <i>PLoS ONE</i> , 2016, 11, e0164226.	2.5	30
233	Mitochondrial Function in Antarctic Nototheniids with ND6 Translocation. <i>PLoS ONE</i> , 2012, 7, e31860.	2.5	30
234	Elevated pCO <sub>2</sub> Affects Feeding Behavior and Acute Physiological Response of the Brown Crab <i>Cancer pagurus</i> . <i>Frontiers in Physiology</i> , 2018, 9, 1164.	2.8	29

#	ARTICLE	IF	CITATIONS
235	Burning embers: towards more transparent and robust climate-change risk assessments. <i>Nature Reviews Earth &amp; Environment</i> , 2020, 1, 516-529.	29.7	29
236	Temperature and growth rates as modulators of the metabolic capacities of fish muscle. , 1998, , 58-87.		28
237	The strengths of in vivo magnetic resonance imaging (MRI) to study environmental adaptational physiology in fish. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2004, 17, 236-248.	2.0	28
238	Hsp70 is not a sensitive indicator of thermal limitation in <i>Gadus morhua</i> . <i>Journal of Fish Biology</i> , 2005, 67, 767-778.	1.6	28
239	Correlation of cardiac performance with cellular energetic components in the oxygen-deprived turtle heart. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 297, R756-R768.	1.8	28
240	Temperature tolerance of different larval stages of the spider crab <i>Hyas araneus</i> exposed to elevated seawater PCO <sub>2</sub> . <i>Frontiers in Zoology</i> , 2014, 11, 87.	2.0	28
241	Pre-hatching seawater pCO <sub>2</sub> affects development and survival of zoea stages of Arctic spider crab <i>Hyas araneus</i> . <i>Marine Ecology - Progress Series</i> , 2014, 501, 127-139.	1.9	28
242	How do we best synergize climate mitigation actions to co-benefit biodiversity?. <i>Global Change Biology</i> , 2022, 28, 2555-2577.	9.5	28
243	The importance of metabolism in acid-base regulation and acid-base methodology. <i>Canadian Journal of Zoology</i> , 1989, 67, 3005-3017.	1.0	27
244	The Protein Synthesis Machinery Operates at the Same Expense in Eurythermal and Cold Stenothermal Pectinids. <i>Physiological and Biochemical Zoology</i> , 2003, 76, 28-40.	1.5	27
245	Escape performance of temperate king scallop, <i>Pecten maximus</i> under ocean warming and acidification. <i>Marine Biology</i> , 2014, 161, 2819-2829.	1.5	27
246	A first Glimpse at the genome of the Baikalian amphipod <i>Eulimnogammarus verrucosus</i> . <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2014, 322, 177-189.	1.3	27
247	Impact of Ocean Acidification and Warming on the bioenergetics of developing eggs of Atlantic herring <i>Clupea harengus</i> . , 2018, 6, coy050.		27
248	Adjustments of molecular key components of branchial ion and pH regulation in Atlantic cod ( <i>Gadus</i> ). <i>Biochemistry and Molecular Biology</i> , 2016, 193, 33-46.	1.6	26
249	Forecasting future recruitment success for Atlantic cod in the warming and acidifying Barents Sea. <i>Global Change Biology</i> , 2018, 24, 526-535.	9.5	26
250	Fish embryo vulnerability to combined acidification and warming coincides with low capacity for homeostatic regulation. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	26
251	Impact of ocean warming and acidification on the behaviour of two co-occurring gadid species, <i>Boreogadus saida</i> and <i>Gadus morhua</i> , from Svalbard. <i>Marine Ecology - Progress Series</i> , 2017, 571, 183-191.	1.9	26
252	Full time mothers: daily rhythms in brooding and nonbrooding behaviors of Brachyuran crabs. <i>Journal of Experimental Marine Biology and Ecology</i> , 2002, 276, 31-47.	1.5	25

#	ARTICLE	IF	CITATIONS
253	In vitro protein synthesis capacities in a cold stenothermal and a temperate eurythermal pectinid. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2003, 173, 611-620.	1.5	25
254	Effects of hypoxia on the energy status and nitrogen metabolism of African lungfish during aestivation in a mucus cocoon. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2008, 178, 853-865.	1.5	24
255	Oxygen limited thermal tolerance and performance in the lugworm <i>Arenicola marina</i> : A latitudinal comparison. <i>Journal of Experimental Marine Biology and Ecology</i> , 2009, 372, 22-30.	1.5	24
256	Ion regulatory capacity and the biogeography of Crustacea at high southern latitudes. <i>Polar Biology</i> , 2010, 33, 919-928.	1.2	24
257	Ocean acidification but not warming alters sex determination in the Sydney rock oyster, <i>Saccostrea glomerata</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20172869.	2.6	24
258	Squid as Elite Athletes: Locomotory, Respiratory, and Circulatory Integration. , 1990, , 481-503.		24
259	Research Priorities for Understanding Ocean Acidification: Summary From the Second Symposium on the Ocean in a High-CO2 World. <i>Oceanography</i> , 2009, 22, 182-189.	1.0	23
260	Tolerance of <i>Hyas araneus</i> zoea I larvae to elevated seawater PCO2 despite elevated metabolic costs. <i>Marine Biology</i> , 2013, 160, 1943-1953.	1.5	23
261	Cold Tolerance and the Regulation of Cardiac Performance and Hemolymph Distribution in <i>Maja squinado</i> (Crustacea: Decapoda). <i>Physiological and Biochemical Zoology</i> , 2000, 73, 406-415.	1.5	22
262	Seasonal Changes in Metabolism and Cellular Stress Phenomena in the Gilthead Sea Bream ( <i>Sparus</i> ) Tj ETQq0 0,0rgBT /Overlock 10	1.5	22
263	Heat hardening enhances mitochondrial potential for respiration and oxidative defence capacity in the mantle of thermally stressed <i>Mytilus galloprovincialis</i> . <i>Scientific Reports</i> , 2021, 11, 17098.	3.3	22
264	A role for adenosine in metabolic depression in the marine invertebrate <i>Sipunculus nudus</i> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1997, 272, R350-R356.	1.8	21
265	Membrane lipid and protein adaptations in Antarctic fish. , 1998, , 166-189.		21
266	Adaptation to cold and depth: contrasts between polar and deep-sea animals. , 1998, , 33-57.		21
267	Polymorphic microsatellite DNA markers from the marine gastropod <i>Littorina saxatilis</i> . <i>Molecular Ecology Notes</i> , 2002, 2, 27-29.	1.7	21
268	Influence of Temperature, Hypercapnia, and Development on the Relative Expression of Different Hemocyanin Isoforms in the Common Cuttlefish <i>Sepia officinalis</i> . <i>Journal of Experimental Zoology</i> , 2012, 317, 511-523.	1.2	21
269	Intra-population variability of ocean acidification impacts on the physiology of Baltic blue mussels ( <i>Mytilus edulis</i> ): integrating tissue and organism response. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2017, 187, 529-543.	1.5	21
270	Recovery from Anaerobiosis in the Intertidal Worm <i>Sipunculus Nudus</i> : I. Restoration of Aerobic, Steady-State Energy Metabolism. <i>Journal of Experimental Biology</i> , 1986, 122, 37-50.	1.7	21



#	ARTICLE	IF	CITATIONS
271	Effects of low temperature on prooxidant processes and antioxidant defence systems in marine organisms. , 1998, , 212-236.		20
272	Temperature-dependent pH regulation in eurythermal and stenothermal marine fish: an interspecies comparison using <sup>31</sup> P-NMR. <i>Journal of Thermal Biology</i> , 2003, 28, 363-371.	2.5	20
273	Allometry of thermal limitation in the cephalopod <i>Sepia officinalis</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2007, 146, 149-154.	1.8	20
274	Slowest of the slow: latitudinal insensitivity of burrowing capacity in the bivalve <i>Laternula</i> . <i>Marine Biology</i> , 2007, 151, 1823-1830.	1.5	20
275	Differential impacts of elevated CO <sub>2</sub> and acidosis on the energy budget of gill and liver cells from Atlantic cod, <i>Gadus morhua</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2015, 187, 160-167.	1.8	20
276	Aerobic capacities and swimming performance of Polar cod ( <i>Boreogadus saida</i> Lepechin) under ocean acidification and warming conditions. <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	20
277	Single and combined effects of the "Deadly trio" hypoxia, hypercapnia and warming on the cellular metabolism of the great scallop <i>Pecten maximus</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2020, 243-244, 110438.	1.6	20
278	Squid ( <i>Lolliguncula brevis</i> ) life in shallow waters: oxygen limitation of metabolism and swimming performance. <i>Journal of Experimental Biology</i> , 1996, 199, 911-21.	1.7	20
279	High-energy turnover at low temperatures: recovery from exhaustive exercise in Antarctic and temperate eelpouts. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1998, 274, R1789-R1796.	1.8	19
280	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
281	Differential physiological responses to oxygen availability in early life stages of decapods developing in distinct environments. <i>Marine Biology</i> , 2015, 162, 1111-1124.	1.5	19
282	Thermal growth potential of Atlantic cod by the end of the 21st century. <i>Global Change Biology</i> , 2016, 22, 4162-4168.	9.5	19
283	Differences in neurochemical profiles of two gadid species under ocean warming and acidification. <i>Frontiers in Zoology</i> , 2017, 14, 49.	2.0	19
284	Water bicarbonate modulates the response of the shore crab <i>Carcinus maenas</i> to ocean acidification. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2018, 188, 749-764.	1.5	19
285	Assessment of muscular energy metabolism and heat shock response of the green abalone <i>Haliotis fulgens</i> (Gastropoda: Philipi) at extreme temperatures combined with acute hypoxia and hypercapnia. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2019, 227, 1-11.	1.6	19
286	Different sensitivity to heatwaves across the life cycle of fish reflects phenotypic adaptation to environmental niche. <i>Marine Environmental Research</i> , 2020, 162, 105192.	2.5	19
287	Introduction to special section: The Ocean in a High-CO <sub>2</sub> World. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	18
288	Biology of the Antarctic eelpout <i>Pachycara brachycephalum</i> . <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 1131-1140.	1.4	18

#	ARTICLE	IF	CITATIONS
289	Increased Concentrations of Haemolymph Mg <sup>2+</sup> Protect Intracellular Ph and Atp Levels During Temperature Stress and Anoxia in the Common Shrimp <i>Crangon crangon</i> . <i>Journal of Experimental Biology</i> , 1997, 200, 785-792.	1.7	18
290	Hydrogen Peroxide Causes a Decrease in Aerobic Metabolic Rate and in Intracellular pH in the Shrimp <i>Crangon crangon</i> . <i>Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology</i> , 1997, 117, 123-129.	0.5	17
291	Physiological and genetical adaptation to temperature in fish populations. <i>Continental Shelf Research</i> , 2003, 23, 1919-1928.	1.8	17
292	Metabolic costs induced by lactate in the toad <i>Bufo marinus</i> : new mechanism behind oxygen debt?. <i>Journal of Applied Physiology</i> , 2003, 94, 1177-1185.	2.5	17
293	Thermal sensitivity of metabolic enzymes in subarctic and temperate freshwater mussels ( <i>Bivalvia</i> ): Tj ETQq1 1 0.784314 rgBTj/Overload	2.5	17
294	Comparison between transcriptomic responses to short-term stress exposures of a common Holarctic and endemic Lake Baikal amphipods. <i>BMC Genomics</i> , 2019, 20, 712.	2.8	17
295	Interaction between temperature and hypoxia in the alligator. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1993, 265, R1339-R1343.	1.8	16
296	Metabolism and energetics in squid ( <i>Illex illecebrosus</i> , <i>Loligo pealei</i> ) during muscular fatigue and recovery. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1993, 265, R157-R165.	1.8	16
297	Metabolic performance of the squid <i>Lolliguncula brevis</i> (Cephalopoda) during hypoxia: an analysis of the critical PO <sub>2</sub> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2000, 243, 241-259.	1.5	16
298	A Role for Oxygen Delivery and Extracellular Magnesium in Limiting Cold Tolerance of the Sub-Antarctic Stone Crab <i>Paralomis granulosa</i> ?. <i>Physiological and Biochemical Zoology</i> , 2012, 85, 285-298.	1.5	16
299	Impact of long-term moderate hypercapnia and elevated temperature on the energy budget of isolated gills of Atlantic cod ( <i>Gadus morhua</i> ). <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2015, 182, 102-112.	1.8	16
300	Uptake Kinetics and Subcellular Compartmentalization Explain Lethal but Not Sublethal Effects of Cadmium in Two Closely Related Amphipod Species. <i>Environmental Science &amp; Technology</i> , 2017, 51, 7208-7218.	10.0	16
301	Energetic, antioxidant, inflammatory and cell death responses in the red muscle of thermally stressed <i>Sparus aurata</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2020, 190, 403-418.	1.5	16
302	Temperature dependence of ionic and acid-base regulation in boreal and arctic <i>Crangon crangon</i> and <i>Pandalus borealis</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 1997, 211, 69-83.	1.5	15
303	Molecular characterisation and expression of Atlantic cod ( <i>Gadus morhua</i> ) myoglobin from two populations held at two different acclimation temperatures. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2007, 148, 681-689.	1.8	15
304	Blue blood on ice: modulated blood oxygen transport facilitates cold compensation and eurythermy in an Antarctic octopod. <i>Frontiers in Zoology</i> , 2015, 12, 6.	2.0	15
305	De novo transcriptome assembly and gene expression profile of thermally challenged green abalone ( <i>Haliotis fulgens</i> : Gastropoda) under acute hypoxia and hypercapnia. <i>Marine Genomics</i> , 2019, 45, 48-56.	1.1	15
306	Differential expression of duplicated LDH-A genes during temperature acclimation of weatherfish <i>Misgurnus fossilis</i> . <i>FEBS Journal</i> , 2007, 274, 1503-1513.	4.7	14

#	ARTICLE	IF	CITATIONS
307	Characterization and analysis of a transcriptome from the boreal spider crab <i>Hyas araneus</i> . <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2013, 8, 344-351.	1.0	14
308	A first insight into the spleen transcriptome of the notothenioid fish <i>Lepidonotothen nudifrons</i> : Resource description and functional overview. <i>Marine Genomics</i> , 2015, 24, 237-239.	1.1	14
309	Sensitivity to ocean acidification differs between populations of the Sydney rock oyster: Role of filtration and ion-regulatory capacities. <i>Marine Environmental Research</i> , 2018, 135, 103-113.	2.5	13
310	Untargeted metabolic profiling reveals distinct patterns of thermal sensitivity in two related notothenioids. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2018, 217, 43-54.	1.8	13
311	Advances in understanding the impacts of global warming on marine fishes farmed offshore: <i>Sparus aurata</i> as a case study. <i>Journal of Fish Biology</i> , 2020, 98, 1509-1523.	1.6	13
312	Critical PO <sub>2</sub> of Euryoxic Animals. , 1988, , 37-48.		13
313	Metabolic and energy correlates of intracellular pH in progressive fatigue of squid ( <i>L. brevis</i> ) mantle muscle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1996, 271, R1403-R1414.	1.8	12
314	The Potential Role of CO <sub>2</sub> in Initiation and Maintenance of Estivation in the Land Snail <i>Helix lucorum</i> . <i>Physiological and Biochemical Zoology</i> , 2007, 80, 113-124.	1.5	12
315	Simultaneous high-resolution pH and spectrophotometric recordings of oxygen binding in native blood microvolumes. <i>Journal of Experimental Biology</i> , 2014, 217, 1430-6.	1.7	12
316	Microscale genetic differentiation along the vertical shore gradient in White Sea snails <i>Littorina saxatilis</i> (Olivi) assessed by microsatellite markers. <i>Journal of Molluscan Studies</i> , 2003, 69, 388-391.	1.2	11
317	Cold induced changes of adenosine levels in common eelpout ( <i>Zoarces viviparus</i> ): a role in modulating cytochrome <i>c</i> oxidase expression. <i>Journal of Experimental Biology</i> , 2008, 211, 1262-1269.	1.7	11
318	Cross-Chapter Boxes. , 0, , 97-166.		11
319	Key impacts of climate engineering on biodiversity and ecosystems, with priorities for future research. <i>Journal of Integrative Environmental Sciences</i> , 0, , 1-26.	2.5	11
320	Proton-Equivalent Ion Transfer in <i>Sipunculus Nudus</i> as a Function of Ambient Oxygen Tension: Relationships With Energy Metabolism. <i>Journal of Experimental Biology</i> , 1991, 156, 21-39.	1.7	11
321	Field studies and projections of climate change effects on the bearded horse mussel <i>Modiolus barbatus</i> in the Gulf of Thermaikos, Greece. <i>Marine Ecology - Progress Series</i> , 2012, 449, 183-196.	1.9	11
322	Acid-base regulation in the toad <i>Bufo marinus</i> during environmental hypoxia. <i>Respiration Physiology</i> , 1991, 85, 217-230.	2.7	10
323	The effect of hydrogen peroxide on isolated body wall of the lugworm <i>Arenicola marina</i> (L.) at different extracellular pH levels. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2001, 128, 391-399.	2.6	10
324	Microsatellite DNA variation indicates low levels of genetic differentiation among cuttlefish ( <i>Sepia</i> ) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50</i> <i>Physiology Part D: Genomics and Proteomics</i> , 2006, 1, 375-383.	1.0	10

#	ARTICLE	IF	CITATIONS
325	Do amphibious crabs have amphibious eggs? A case study of <i>Armases miersii</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2011, 409, 107-113.	1.5	10
326	TEMPERATURE   Effects of Climate Change. , 2011, , 1738-1745.		10
327	Physiological capacity of <i>Cancer setosus</i> larvae " Adaptation to El Niño Southern Oscillation conditions. <i>Journal of Experimental Marine Biology and Ecology</i> , 2012, 413, 100-105.	1.5	10
328	Effects of environmental and experimental stress on Antarctic fish. , 1998, , 299-326.		9
329	Invasive studies of intracellular acid-base parameters: quantitative analyses during environmental and functional stress. , 1999, , 69-98.		9
330	Coordination between ventilatory pressure oscillations and venous return in the cephalopod <i>Sepia officinalis</i> under control conditions, spontaneous exercise and recovery. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2006, 177, 1-17.	1.5	9
331	Temperature-dependent activity in early life stages of the stone crab <i>Paralomis granulosa</i> (Decapoda.) <i>Journal of Experimental Marine Biology and Ecology</i> , 2011, 397, 27-37.	1.5	9
332	Adaptations to semi-terrestrial life in embryos of East African mangrove crabs: a comparative approach. <i>Marine Biology</i> , 2013, 160, 2483-2492.	1.5	9
333	Environmentally low-temperature kinetic and thermodynamic study of lactate dehydrogenase from Atlantic cod ( <i>G. morhua</i> ) using a 96-well microplate technique. <i>Analytical Biochemistry</i> , 2004, 330, 10-20.	2.4	8
334	Thermal acclimation to 4 or 10°C imparts minimal benefit on swimming performance in Atlantic cod ( <i>Gadus morhua</i> L.). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2009, 179, 623-633.	1.5	8
335	Oxygen and capacity limited thermal tolerance of the lugworm <i>Arenicola marina</i> : A seasonal comparison. <i>Journal of Experimental Marine Biology and Ecology</i> , 2011, 409, 300-309.	1.5	8
336	Field studies on the relation between the accumulation of heavy metals and metabolic and HSR in the bearded horse mussel <i>Modiolus barbatus</i> . <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2011, 153, 133-140.	2.6	8
337	Microsatellite markers for the notothenioid fish <i>Lepidonotothen nudifrons</i> and two congeneric species. <i>BMC Research Notes</i> , 2016, 9, 238.	1.4	8
338	STC1 and PTHrP Modify Carbohydrate and Lipid Metabolism in Liver of a Teleost Fish. <i>Scientific Reports</i> , 2019, 9, 723.	3.3	8
339	The Intracellular pH of a Molluscan Smooth Muscle During a Contraction-Catch-Relaxation Cycle Estimated by the Distribution of [14C]DMO and by 31P-NMR Spectroscopy. <i>Journal of Experimental Biology</i> , 1990, 150, 81-93.	1.7	8
340	Impact of ocean acidification and warming on mitochondrial enzymes and membrane lipids in two Gadoid species. <i>Polar Biology</i> , 2020, 43, 1109-1120.	1.2	7
341	Thermal reaction norms of key metabolic enzymes reflect divergent physiological and behavioral adaptations of closely related amphipod species. <i>Scientific Reports</i> , 2021, 11, 4562.	3.3	7
342	Interactions of Anaerobic Propionate Formation and Acid-Base Status in <i>Arenicola marina</i> : An Analysis of Propionyl-CoA Carboxylase. <i>Physiological Zoology</i> , 1994, 67, 892-909.	1.5	7

#	ARTICLE	IF	CITATIONS
343	Temperature-dependent shift of pHi in fish white muscle: contributions of passive and active processes. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1997, 272, R84-R89.	1.8	6
344	Ultrastructure of pedal muscle as a function of temperature in nacellid limpets. <i>Marine Biology</i> , 2010, 157, 1705-1712.	1.5	6
345	Response of branchial Na <sup>+</sup> /K <sup>+</sup> ATPase to changes in ambient temperature in Atlantic cod ( <i>Gadus</i> ) Tj ETQq1 1 0.784314 rgBT /Overloc Systemic, and Environmental Physiology, 2016, 186, 461-470.	1.5	6
346	Does the membrane pacemaker theory of metabolism explain the size dependence of metabolic rate in marine mussels?. <i>Journal of Experimental Biology</i> , 2017, 220, 1423-1434.	1.7	6
347	In vivo <sup>31</sup> P-MRS of muscle bioenergetics in marine invertebrates: Future ocean limits scallops' performance. <i>Magnetic Resonance Imaging</i> , 2019, 61, 239-246.	1.8	6
348	Reply to: methodological inconsistencies define thermal bottlenecks in fish life cycle. <i>Evolutionary Ecology</i> , 2022, 36, 293-298.	1.2	6
349	The role of phosphofructokinase in glycolytic control in the facultative anaerobe <i>Sipunculus nudus</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1991, 161, 581-589.	1.5	5
350	Physiological ecology in cold ocean fisheries: a case study in Atlantic cod. , 1998, , 463-489.		5
351	Muscle bioenergetics of speeding fish: In vivo <sup>31</sup> P-NMR studies in a 4.7 T MR scanner with an integrated swim tunnel. <i>Concepts in Magnetic Resonance Part B</i> , 2008, 33B, 62-73.	0.7	5
352	Ideas and perspectives: When ocean acidification experiments are not the same, repeatability is not tested. <i>Biogeosciences</i> , 2021, 18, 1787-1792.	3.3	5
353	Low annual temperature likely prevents the Holarctic amphipod <i>Gammarus lacustris</i> from invading Lake Baikal. <i>Scientific Reports</i> , 2021, 11, 10532.	3.3	5
354	Energy metabolism and ATP free-energy change of the intertidal worm <i>Sipunculus nudus</i> below a critical temperature. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1996, 166, 492-500.	1.5	5
355	Athleten des Meeres: Zur Äkophysologie pelagischer Kalmare. <i>Biologie in Unserer Zeit</i> , 1994, 24, 192-199.	0.2	4
356	Ecosystem impacts of climate change and ocean acidification: A case for "global" conservation physiology. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2009, 153, S59.	1.8	4
357	CO <sub>2</sub> induced pH <sub>i</sub> changes in the brain of polar fish: a TauCEST application. <i>NMR in Biomedicine</i> , 2018, 31, e3955.	2.8	4
358	Excess Oxygen in Polar Evolution: A Whole Organism Perspective. <i>From Pole To Pole</i> , 2013, , 67-87.	0.1	4
359	Composition and relative abundance of microsatellite repeats in genome of <i>Littorina saxatilis</i> (Olivi) (Gastropoda: Littorinidae). <i>Journal of Molluscan Studies</i> , 2001, 67, 499-510.	1.2	3
360	Integrated studies of organismal plasticity through physiological and transcriptomic approaches: examples from marine polar regions. <i>Briefings in Functional Genomics</i> , 2016, 15, 365-372.	2.7	3

#	ARTICLE	IF	CITATIONS
361	Impact of ocean acidification on thermal tolerance and acid-base regulation of <i>Mytilus edulis</i> from the White Sea. <i>Polar Biology</i> , 2018, 41, 2261-2273.	1.2	3
362	Kinetics of enzymes in cold-stenothermal invertebrates. , 1998, , 190-211.		2
363	SWIMMING AND OTHER ACTIVITIES   Cellular Energy Utilization: Environmental Influences on Metabolism. , 2011, , 1645-1651.		2
364	Studying the cardiovascular system of a marine crustacean with magnetic resonance imaging at 9.4ÅT. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2019, 32, 567-579.	2.0	2
365	Non-invasive quantification of cardiac stroke volume in the edible crab <i>Cancer pagurus</i> . <i>Frontiers in Zoology</i> , 2019, 16, 46.	2.0	2
366	Transcriptome-level effects of the model organic pollutant phenanthrene and its solvent acetone in three amphipod species. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2020, 33, 100630.	1.0	2
367	pH Homeostasis in Terrestrial Vertebrates: A Comparison of Traditional and New Concepts. <i>Advances in Comparative and Environmental Physiology</i> , 1995, , 51-62.	0.5	2
368	The integrative and evolutionary biology of gas-binding copper proteins: an introduction. <i>Integrative and Comparative Biology</i> , 2007, 47, 628-630.	2.0	1
369	Frontiers in Aquatic Physiology - grand challenge. <i>Frontiers in Physiology</i> , 2010, 1, 6.	2.8	1
370	Non-invasive MRI Studies of Ventilatory and Cardiovascular Performance in Edible Crabs <i>Cancer pagurus</i> During Warming Under Elevated CO2 Levels. <i>Frontiers in Physiology</i> , 2020, 11, 596529.	2.8	1
371	Distribution patterns of decapod crustaceans in polar areas: a result of magnesium regulation?. , 2002, , 246-250.		1
372	Temperature-dependent pH regulation in stenothermal Antarctic and eurythermal temperate eelpout ( <i>Zoarcidae</i> ): an in-vivo NMR study. , 2002, , 266-271.		1
373	Advances in Predicting the Impacts of Global Warming on the Mussels <i>Mytilus galloprovincialis</i> in the Mediterranean Sea. , 2014, , 319-339.		1
374	Ambient media affect thermal response of cellular energy budget. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2009, 153, S173.	1.8	0
375	Professor Helen P. Laburn Ph.D. FRSSAf, 1951â€“2014. <i>Journal of Thermal Biology</i> , 2015, 51, 126-127.	2.5	0
376	Exploring the role of temperature in observed inter-population differences of Atlantic cod ( <i>Gadus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1519-1529.	2.5	0
377	Meeresorganismen unter CO2-Stress. , 2008, , 26-40.		0