Fredrik Jutfelt

List of Publications by Year
in descending order

83 papers	4,578 citations	109264 35 h-index	110317 64 g-index
91 all docs	91 docs citations	91 times ranked	4002 citing authors

#	Article	IF	Citations
1	Aerobic scope measurements of fishes in an era of climate change: respirometry, relevance and recommendations. Journal of Experimental Biology, 2013, 216, 2771-2782.	0.8	705
2	Oxygen- and capacity-limited thermal tolerance: blurring ecology and physiology. Journal of Experimental Biology, 2018, 221, .	0.8	204
3	Aerobic scope fails to explain the detrimental effects on growth resulting from warming and elevated CO2 in Atlantic halibut. Journal of Experimental Biology, 2014, 217, 711-717.	0.8	197
4	Physiological constraints to climate warming in fish follow principles of plastic floors and concrete ceilings. Nature Communications, 2016, 7, 11447.	5.8	192
5	Dietary soya saponins increase gut permeability and play a key role in the onset of soyabean-induced enteritis in Atlantic salmon (Salmo salar L.). British Journal of Nutrition, 2008, 100, 120-129.	1.2	188
6	Health of farmed fish: its relation to fish welfare and its utility as welfare indicator. Fish Physiology and Biochemistry, 2012, 38, 85-105.	0.9	172
7	Behavioural Disturbances in a Temperate Fish Exposed to Sustained High-CO2 Levels. PLoS ONE, 2013, 8, e65825.	1.1	131
8	Intestinal transport mechanisms and plasma cortisol levels during normal and out-of-season parrâ€“smolt transformation of Atlantic salmon, Salmo salar. Aquaculture, 2003, 222, 265-285.	1.7	114
9	Damaging effect of the fish pathogen Aeromonas salmonicida ssp. salmonicida on intestinal enterocytes of Atlantic salmon (Salmo salar L.). Cell and Tissue Research, 2004, 318, 305-311.	1.5	107
10	The impact of temperature on the metabolome and endocrine metabolic signals in Atlantic salmon (Salmo salar). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2013, 164, 44-53.	0.8	105
11	Ocean Acidification Effects on Atlantic Cod Larval Survival and Recruitment to the Fished Population. PLoS ONE, 2016, 11, e0155448.	1.1	104
12	Ocean acidification does not impair the behaviour of coral reef fishes. Nature, 2020, 577, 370-375.	13.7	100
13	Warmer water temperature results in oxidative damage in an Antarctic fish, the bald notothen. Journal of Experimental Marine Biology and Ecology, 2015, 468, 130-137.	0.7	94
14	CTmax is repeatable and doesnâ€™t reduce growth in zebrafish. Scientific Reports, 2018, 8, 7099.	1.6	84
15	Low potential for evolutionary rescue from climate change in a tropical fish. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 33365-33372.	3.3	78
16	Elevated <scp>CO</scp>₂ affects embryonic development and larval phototaxis in a temperate marine fish. Ecology and Evolution, 2013, 3, 3637-3646.	0.8	75
17	Elevated carbon dioxide alters the plasma composition and behaviour of a shark. Biology Letters, 2014, 10, 20140538.	1.0	75
18	Simulated climate change causes immune suppression and protein damage in the crustacean Nephrops norvegicus. Fish and Shellfish Immunology, 2012, 33, 1095-1101.	1.6	69

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19	Parrâ€“smolt transformation and dietary vegetable lipids affect intestinal nutrient uptake, barrier function and plasma cortisol levels in Atlantic salmon. Aquaculture, 2007, 273, 298-311.	1.7	68
20	Twoâ€current choice flumes for testing avoidance and preference in aquatic animals. Methods in Ecology and Evolution, 2017, 8, 379-390.	2.2	65
21	Influence of Ocean Acidification on a Natural Winter-to-Summer Plankton Succession: First Insights from a Long-Term Mesocosm Study Draw Attention to Periods of Low Nutrient Concentrations. PLoS ONE, 2016, 11, e0159068.	1.1	64
22	Cardiac oxygen limitation during an acute thermal challenge in the European perch: effects of chronic environmental warming and experimental hyperoxia. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 311, R440-R449.	0.9	59
23	Altered neurotransmitter function in CO₂-exposed stickleback (Gasterosteus) Tj ETQq1 1 0.784314 rgBT /Overlock 1		57
24	Translocation of viable Aeromonas salmonicida across the intestine of rainbow trout, Oncorhynchus mykiss (Walbaum). Journal of Fish Diseases, 2006, 29, 255-262.	0.9	56
25	Atlantic cod actively avoid CO2 and predator odour, even after long-term CO2 exposure. Frontiers in Zoology, 2013, 10, 81.	0.9	56
26	Experimental manipulations of tissue oxygen supply do not affect warming tolerance of European perch. Journal of Experimental Biology, 2015, 218, 2448-54.	0.8	56
27	Effects of Increased CO2 on Fish Gill and Plasma Proteome. PLoS ONE, 2014, 9, e102901.	1.1	56
28	â€˜Aerobic scope protectionâ€™ reduces ectotherm growth under warming. Functional Ecology, 2021, 35, 1397-1407.	1.7	54
29	9â€“28 d of exposure to elevated pCO2 reduces avoidance of predator odour but had no effect on behavioural lateralization or swimming activity in a temperate wrasse (Ctenolabrus rupestris). ICES Journal of Marine Science, 2016, 73, 620-632.	1.2	53
30	Reduced physiological plasticity in a fish adapted to stable temperatures. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	50
31	Are model organisms representative for climate change research? Testing thermal tolerance in wild and laboratory zebrafish populations. , 2019, 7, coz036.		47
32	Sn-2-monoacylglycerol, not glycerol, is preferentially utilised for triacylglycerol and phosphatidylcholine biosynthesis in Atlantic salmon (Salmo salar L.) intestine. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2007, 146, 115-123.	0.7	46
33	The involvement of Aeromonas salmonicida virulence factors in bacterial translocation across the rainbow trout, Oncorhynchus mykiss (Walbaum), intestine. Journal of Fish Diseases, 2008, 31, 141-151.	0.9	46
34	Translocation of infectious pancreatic necrosis virus across the intestinal epithelium of Atlantic salmon (Salmo salar L.). Aquaculture, 2011, 321, 85-92.	1.7	40
35	Ocean warming and acidification modulate energy budget and gill ion regulatory mechanisms in Atlantic cod (Gadus morhua). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2015, 185, 767-781.	0.7	39
36	Response to Farrell and to PÃ¶rtner and Giomi. Journal of Experimental Biology, 2013, 216, 4495-4497.	0.8	38

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37	On the Observation of Wild Zebrafish (Danio rerio) in India. Zebrafish, 2019, 16, 546-553.	0.5	38
38	Juvenile Atlantic cod behavior appears robust to near-future CO2 levels. Frontiers in Zoology, 2015, 12, 11.	0.9	37
39	Food web changes under ocean acidification promote herring larvae survival. Nature Ecology and Evolution, 2018, 2, 836-840.	3.4	37
40	Effects of autonomic blockade on acute thermal tolerance and cardioventilatory performance in rainbow trout, Oncorhynchus mykiss. Journal of Thermal Biology, 2014, 44, 47-54.	1.1	33
41	Growth performance and survival of larval Atlantic herring, under the combined effects of elevated temperatures and CO2. PLoS ONE, 2018, 13, e0191947.	1.1	33
42	Meta-analysis reveals an extreme â€œdecline effectâ€•in the impacts of ocean acidification on fish behavior. PLoS Biology, 2022, 20, e3001511.	2.6	33
43	Brain cooling marginally increases acute upper thermal tolerance in Atlantic cod. Journal of Experimental Biology, 2019, 222, .	0.8	32
44	Response to â€˜How and how not to investigate the oxygen and capacity limitation of thermal tolerance (OCLTT) and aerobic scope â€“ remarks on the article by GrÃ¤ns et al.â€™. Journal of Experimental Biology, 2014, 217, 4433-4435.	0.8	31
45	Metabolic adaptation to warm water in fish. Functional Ecology, 2020, 34, 1138-1141.	1.7	28
46	Long-term exposure to elevated carbon dioxide does not alter activity levels of a coral reef fish in response to predator chemical cues. Behavioral Ecology and Sociobiology, 2017, 71, 108.	0.6	27
47	Behavioural responses to simulated bird attacks in marine three-spined sticklebacks after exposure to high CO2 levels. Marine and Freshwater Research, 2015, 66, 877.	0.7	26
48	Chronic Exposure to Oxazepam Pollution Produces Tolerance to Anxiolytic Effects in Zebrafish (Danio rerio). Environmental Science & Technology, 2020, 54, 1760-1769.	4.6	26
49	INTEGRATED FUNCTION AND CONTROL OF THE GUT | Barrier Function of the Gut. , 2011, , 1322-1331.		25
50	A vegetable oil feeding history affects digestibility and intestinal fatty acid uptake in juvenile rainbow trout Oncorhynchus mykiss. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 152, 552-559.	0.8	24
51	Behavioural lateralization in a detour test is not repeatable in fishes. Animal Behaviour, 2020, 167, 55-64.	0.8	24
52	Low concentrations of the benzodiazepine drug oxazepam induce anxiolytic effects in wild-caught but not in laboratory zebrafish. Science of the Total Environment, 2020, 703, 134701.	3.9	23
53	Effects of Cortisol on the Intestinal Mucosal Immune Response during Cohabitant Challenge with IPNV in Atlantic Salmon (Salmo salar). PLoS ONE, 2014, 9, e94288.	1.1	23
54	Rapid-warming tolerance correlates with tolerance to slow warming but not growth at non-optimal temperatures in zebrafish. Journal of Experimental Biology, 2020, 223, .	0.8	20

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55	Paths towards greater consensus building in experimental biology. Journal of Experimental Biology, 2022, 225, .	0.8	20
56	Swim for it: Effects of simulated fisheries capture on the post-release behaviour of four Great Barrier Reef fishes. Fisheries Research, 2018, 206, 129-137.	0.9	19
57	Investigating the gill-oxygen limitation hypothesis in fishes: intraspecific scaling relationships of metabolic rate and gill surface area. , 2021, 9, .		19
58	Behavioural alterations induced by the anxiolytic pollutant oxazepam are reversible after depuration in a freshwater fish. Science of the Total Environment, 2019, 665, 390-399.	3.9	18
59	Animal size and sea water temperature, but not pH, influence a repeatable startle response behaviour in a wide-ranging marine mollusc. Animal Behaviour, 2021, 173, 191-205.	0.8	18
60	Zebrafish (Danio rerio) behaviour is largely unaffected by elevated pCO₂. , 2016, 4, cow065.		15
61	Keeping science honest. Science, 2018, 359, 1443-1443.	6.0	15
62	How to quantify thermal acclimation capacity?. Global Change Biology, 2019, 25, 1893-1894.	4.2	15
63	Effects of elevated carbon dioxide on male and female behavioural lateralization in a temperate goby. Royal Society Open Science, 2018, 5, 171550.	1.1	13
64	Responses of neurogenesis and neuroplasticity related genes to elevated CO ₂ levels in the brain of three teleost species. Biology Letters, 2017, 13, 20170240.	1.0	13
65	Reply to: Methods matter in repeating ocean acidification studies. Nature, 2020, 586, E25-E27.	13.7	12
66	Expression of genes involved in brain GABAergic neurotransmission in three-spined stickleback exposed to near-future CO2. , 2016, 4, cow068.		11
67	Cardiac reflexes in a warming world: Thermal plasticity of barostatic control and autonomic tones in a temperate fish. Journal of Experimental Biology, 2016, 219, 2880-2887.	0.8	11
68	Chronic environmental warming alters cardiovascular and haematological stress responses in European perch (Perca fluviatilis). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2016, 186, 1023-1031.	0.7	11
69	Warming alters the body shape of European perch Perca fluviatilis. Journal of Fish Biology, 2015, 87, 1234-1247.	0.7	10
70	Scientific Misconduct: The Elephant in the Lab. A Response to Parker et al.. Trends in Ecology and Evolution, 2016, 31, 899-900.	4.2	9
71	No effect of elevated carbon dioxide on reproductive behaviors in the three-spined stickleback. Behavioral Ecology, 2017, 28, 1482-1491.	1.0	9
72	Exorcise citations to the â€˜living deadâ€™ from the literature. Nature, 2018, 558, 189-189.	13.7	8

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73	Roll, right, repeat: short-term repeatability in the self-righting behaviour of a cold-water sea cucumber. Journal of the Marine Biological Association of the United Kingdom, 2020, 100, 115-120.	0.4	8
74	Exposure to elevated carbon dioxide does not impair shortâ€term swimming behaviour or shelterâ€seeking in a predatory coralâ€reef fish. Journal of Fish Biology, 2018, 93, 138-142.	0.7	6
75	Density differences between water masses preclude laminar flow in two-current choice flumes. Oecologia, 2019, 189, 875-881.	0.9	6
76	Extreme blood boosting capacity of an Antarctic fish represents an adaptation to life in a sub-zero environment. Journal of Experimental Biology, 2019, 223, .	0.8	6
77	Ocean acidification causes no detectable effect on swimming activity and body size in a common copepod. Hydrobiologia, 2017, 802, 235-243.	1.0	4
78	Increased energy expenditure is an indirect effect of habitat structural complexity loss. Functional Ecology, 2021, 35, 2316.	1.7	4
79	Response to â€˜The spleen as an unlikely source of red blood cells during increased activity in fishesâ€™. Journal of Experimental Biology, 2020, 223, .	0.8	2
80	Accurate science requires that we base our work on accurate publications. Environmental Pollution, 2020, 261, 114238.	3.7	2
81	Predator presence affects activity patterns but not food consumption or growth of juvenile corkwing wrasse (Symphodus melops). Behavioral Ecology and Sociobiology, 2021, 75, 1.	0.6	2
82	â€œUrchin pinningâ€: Behavioural observations reveal how hungry urchins actively prey upon their sea star predators. Ethology, 2021, 127, 484-489.	0.5	2
83	Health of farmed fish: its relation to fish welfare and its utility as welfare indicator. , 2011, , 85-105.		0