

David J Mckenzie

List of Publications by Year in descending order

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122
papers

5,841
citations

66343
42
h-index

95266
68
g-index

127
all docs

127
docs citations

127
times ranked

4478
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental stressors alter relationships between physiology and behaviour. Trends in Ecology and Evolution, 2013, 28, 651-658.	8.7	291
2	Oxygen- and capacity-limited thermal tolerance: blurring ecology and physiology. Journal of Experimental Biology, 2018, 221, .	1.7	204
3	Fish swimming in schools save energy regardless of their spatial position. Behavioral Ecology and Sociobiology, 2015, 69, 219-226.	1.4	195
4	Fuel, fasting, fear: routine metabolic rate and food deprivation exert synergistic effects on risk-taking in individual juvenile European sea bass. Journal of Animal Ecology, 2011, 80, 1024-1033.	2.8	172
5	Linking swimming performance, cardiac pumping ability and cardiac anatomy in rainbow trout. Journal of Experimental Biology, 2005, 208, 1775-1784.	1.7	170
6	Aerobic capacity influences the spatial position of individuals within fish schools. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 357-364.	2.6	147
7	A relationship between metabolic rate and risk-taking behaviour is revealed during hypoxia in juvenile European sea bass. Functional Ecology, 2012, 26, 134-143.	3.6	139
8	A new analysis of hypoxia tolerance in fishes using a database of critical oxygen level (P_{crit}). , 2016, 4, cow012.		133
9	Root Effect Hemoglobin May Have Evolved to Enhance General Tissue Oxygen Delivery. Science, 2013, 340, 1327-1329.	12.6	130
10	Individual variation and repeatability in aerobic and anaerobic swimming performance of European sea bass, <i>Dicentrarchus labrax</i> . Journal of Experimental Biology, 2010, 213, 26-32.	1.7	123
11	Models projecting the fate of fish populations under climate change need to be based on valid physiological mechanisms. Global Change Biology, 2017, 23, 3449-3459.	9.5	123
12	Title is missing!. Fish Physiology and Biochemistry, 1998, 19, 111-122.	2.3	98
13	Physiological mechanisms underlying a trade-off between growth rate and tolerance of feed deprivation in the European sea bass (<i>Dicentrarchus labrax</i>). Journal of Experimental Biology, 2010, 213, 1143-1152.	1.7	94
14	Conservation physiology of marine fishes: state of the art and prospects for policy. , 2016, 4, cow046.		89
15	Effects of growth hormone transgenesis on metabolic rate, exercise performance and hypoxia tolerance in tilapia hybrids. Journal of Fish Biology, 2003, 63, 398-409.	1.6	86
16	Reflex Cardioventilatory Responses to Hypoxia in the Flathead Gray Mullet (<i>Mugil cephalus</i>) and Their Behavioral Modulation by Perceived Threat of Predation and Water Turbidity. Physiological and Biochemical Zoology, 2005, 78, 744-755.	1.5	81
17	The Effects of Branchial Denervation and Pseudobranch Ablation on Cardioventilatory Control in an Air-Breathing Fish. Journal of Experimental Biology, 1991, 161, 347-365.	1.7	80
18	Behavioural and kinematic components of the fast-start escape response in fish: individual variation and temporal repeatability. Journal of Experimental Biology, 2011, 214, 3102-3110.	1.7	78

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19	Effects of stocking density and sustained aerobic exercise on growth, energetics and welfare of rainbow trout. <i>Aquaculture</i> , 2012, 338-341, 216-222.	3.5	78
20	Metabolic rate in fishes: definitions, methods and significance for conservation physiology. <i>Journal of Fish Biology</i> , 2016, 88, 1-9.	1.6	75
21	Chapter 2 Behavioral Responses and Ecological Consequences. <i>Fish Physiology</i> , 2009, , 25-77.	0.8	71
22	Highlights of the 3rd International Symposium on Sturgeon: Conclusions and Recommendations. <i>Journal of Applied Ichthyology</i> , 1999, 15, 1-6.	0.7	69
23	Intraspecific variation in tolerance of warming in fishes. <i>Journal of Fish Biology</i> , 2021, 98, 1536-1555.	1.6	69
24	Title is missing!. <i>Fish Physiology and Biochemistry</i> , 1998, 19, 123-134.	2.3	68
25	Effects of acclimation to brackish water on the growth, respiratory metabolism, and swimming performance of young-of-the-year Adriatic sturgeon (<i>Acipenser naccarii</i>). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2001, 58, 1104-1112.	1.4	66
26	Complex physiological traits as biomarkers of the sub-lethal toxicological effects of pollutant exposure in fishes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007, 362, 2043-2059.	4.0	66
27	Tolerance of chronic hypercapnia by the European eel <i>Anguilla anguilla</i> . <i>Journal of Experimental Biology</i> , 2003, 206, 1717-1726.	1.7	65
28	Differential expression of the heat shock protein Hsp70 in natural populations of the tilapia, <i>Sarotherodon melanotheron</i> , acclimatised to a range of environmental salinities. <i>BMC Ecology</i> , 2010, 10, 11.	3.0	65
29	Anaemia only causes a small reduction in the upper critical temperature of sea bass: is oxygen delivery the limiting factor for tolerance of acute warming in fishes?. <i>Journal of Experimental Biology</i> , 2014, 217, 4275-8.	1.7	63
30	An Investigation of Metabolic Prioritization in the European Sea Bass, <i>Dicentrarchus labrax</i> . <i>Physiological and Biochemical Zoology</i> , 2010, 83, 68-77.	1.5	62
31	The effects of sustained exercise and hypoxia upon oxygen tensions in the red muscle of rainbow trout. <i>Journal of Experimental Biology</i> , 2004, 207, 3629-3637.	1.7	60
32	Environmental constraints upon locomotion and predator-prey interactions in aquatic organisms: an introduction. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007, 362, 1929-1936.	4.0	60
33	Associations between tissue fatty acid composition and physiological traits of performance and metabolism in the seabass (<i>Dicentrarchus labrax</i>). <i>Journal of Experimental Biology</i> , 2006, 209, 3429-3439.	1.7	57
34	Guidelines for reporting methods to estimate metabolic rates by aquatic intermittent-flow respirometry. <i>Journal of Experimental Biology</i> , 2021, 224, .	1.7	57
35	Sub-lethal plasma ammonia accumulation and the exercise performance of salmonids. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2003, 135, 515-526.	1.8	54
36	Aspects of cardioventilatory control in the adriatic sturgeon (<i>Acipenser naccarii</i>). <i>Respiration Physiology</i> , 1995, 100, 45-53.	2.7	53

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37	Effects of changes in water salinity upon exercise and cardiac performance in the European seabass (<i>Dicentrarchus labrax</i>). <i>Marine Biology</i> , 2005, 147, 855-862.	1.5	53
38	Effects of feeding and hypoxia on cardiac performance and gastrointestinal blood flow during critical speed swimming in the sea bass <i>Dicentrarchus labrax</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2009, 154, 233-240.	1.8	53
39	The autonomic control and functional significance of the changes in heart rate associated with air breathing in the jeju, <i>Hoplerythrinus unitaeniatus</i> . <i>Journal of Experimental Biology</i> , 2007, 210, 4224-4232.	1.7	52
40	Effects of diet on spontaneous locomotor activity and oxygen consumption in Adriatic sturgeon (<i>Acipenser naccarii</i>). <i>Fish Physiology and Biochemistry</i> , 1995, 14, 341-355.	2.3	51
41	Gastrointestinal Blood Flow and Postprandial Metabolism in Swimming Sea Bass <i>Dicentrarchus labrax</i> . <i>Physiological and Biochemical Zoology</i> , 2008, 81, 663-672.	1.5	51
42	The role of mechanistic physiology in investigating impacts of global warming on fishes. <i>Journal of Experimental Biology</i> , 2021, 224, .	1.7	50
43	Effects of dietary fatty acids on the respiratory and cardiovascular physiology of fish. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2001, 128, 605-619.	1.8	49
44	In modelling effects of global warming, invalid assumptions lead to unrealistic projections. <i>Global Change Biology</i> , 2018, 24, 553-556.	9.5	49
45	Control of respiration in fish, amphibians and reptiles. <i>Brazilian Journal of Medical and Biological Research</i> , 2010, 43, 409-424.	1.5	48
46	Understanding the individual to implement the ecosystem approach to fisheries management. , 2016, 4, cow005.		46
47	Relationships among Traits of Aerobic and Anaerobic Swimming Performance in Individual European Sea Bass <i>Dicentrarchus labrax</i> . <i>PLoS ONE</i> , 2013, 8, e72815.	2.5	46
48	Oxygen consumption and ventilatory reflex responses are influenced by dietary lipids in sturgeon. <i>Fish Physiology and Biochemistry</i> , 1997, 16, 365-379.	2.3	45
49	Ventilatory and Cardiovascular Responses to Blood pH, Plasma P _{CO₂} , Blood O ₂ Content, and Catecholamines in an Air-Breathing Fish, the Bowfin (<i>Amia calva</i>). <i>Physiological Zoology</i> , 1991, 64, 432-450.	1.5	43
50	Aspects of respiratory physiology and energetics in rainbow trout (<i>Oncorhynchus mykiss</i>) families with different size-at-age and condition factor. <i>Aquaculture</i> , 2007, 263, 280-294.	3.5	43
51	Conservation physiology of marine fishes: advancing the predictive capacity of models. <i>Biology Letters</i> , 2012, 8, 900-903.	2.3	43
52	Effects of glyphosate and the glyphosate based herbicides Roundup Original Â® and Roundup Transorb Â® on respiratory morphophysiology of bullfrog tadpoles. <i>Chemosphere</i> , 2016, 156, 37-44.	8.2	43
53	Some aspects of osmotic and ionic regulation in Adriatic sturgeon <i>Acipenser naccarii</i> . II: Morpho-physiological adjustments to hyperosmotic environments. <i>Journal of Applied Ichthyology</i> , 1999, 15, 61-66.	0.7	42
54	Essential fatty acids influence metabolic rate and tolerance of hypoxia in Dover sole (<i>Solea solea</i>) larvae and juveniles. <i>Marine Biology</i> , 2008, 154, 1041-1051.	1.5	42

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55	Sublethal Concentrations of Ammonia Impair Performance of the Teleost Fast Start Escape Response. Physiological and Biochemical Zoology, 2009, 82, 353-362.	1.5	41
56	The effects of stocking density and low level sustained exercise on the energetic efficiency of rainbow trout (<i>Oncorhynchus mykiss</i>) reared at 19°C. Aquaculture, 2012, 324-325, 226-233.	3.5	41
57	A comparison of highly unsaturated fatty acid levels in wild and farmed eels (<i>Anguilla Anguilla</i>). Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1992, 101, 79-81.	0.2	40
58	Effects of acclimation to brackish water on tolerance of salinity challenge by young-of-the-year Adriatic sturgeon (<i>Acipenser naccarii</i>). Canadian Journal of Fisheries and Aquatic Sciences, 2001, 58, 1113-1121.	1.4	40
59	Evolutionary and cardiorespiratory physiology of air-breathing and amphibious fishes. Acta Physiologica, 2020, 228, e13406.	3.8	40
60	Some aspects of osmotic and ionic regulation in Adriatic sturgeon <i>Acipenser naccarii</i> . I: Ontogenesis of salinity tolerance. Journal of Applied Ichthyology, 1999, 15, 57-60.	0.7	39
61	Effects of changes in plasma pH, CO ₂ and ammonia on ventilation in trout. Fish Physiology and Biochemistry, 1993, 10, 507-515.	2.3	37
62	Temporal stability of otolith elemental fingerprints discriminates among lagoon nursery habitats. Estuarine, Coastal and Shelf Science, 2013, 131, 182-193.	2.1	37
63	Fast growers sprint slower: effects of food deprivation and re-feeding on sprint swimming performance in individual juvenile European sea bass. Journal of Experimental Biology, 2014, 217, 859-65.	1.7	37
64	Conservation physiology across scales: insights from the marine realm. , 2014, 2, cou024-cou024.		37
65	To boldly gulp: standard metabolic rate and boldness have context-dependent influences on risk-taking to breathe air in a catfish. Journal of Experimental Biology, 2015, 218, 3762-3770.	1.7	37
66	Lagoon nurseries make a major contribution to adult populations of a highly prized coastal fish. Limnology and Oceanography, 2017, 62, 1219-1233.	3.1	37
67	Swimming alters responses to hypoxia in the Adriatic sturgeon <i>Acipenser naccarii</i> . Journal of Fish Biology, 2007, 70, 651-658.	1.6	36
68	Title is missing!. Fish Physiology and Biochemistry, 2000, 22, 281-296.	2.3	35
69	The role of dietary n-3 fatty acid and vitamin e supplements in growth of sturgeon (<i>Acipenser</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.6	34
70	Tissue levels and biomarkers of organic contaminants in feral and caged chub (<i>Leuciscus cephalus</i>) from rivers in the West Midlands, UK. Aquatic Toxicology, 2005, 73, 394-405.	4.0	34
71	Recovery by the Norway lobster <i>Nephrops norvegicus</i> (L.) from the physiological stresses of trawling: Influence of season and live-storage position. Journal of Experimental Marine Biology and Ecology, 2009, 373, 124-132.	1.5	34
72	Abolition of reflex bradycardia by cardiac vagotomy has no effect on the regulation of oxygen uptake by Atlantic cod in progressive hypoxia. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 153, 332-338.	1.8	32

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73	Aerobic swimming in intensive finfish aquaculture: applications for production, mitigation and selection. <i>Reviews in Aquaculture</i> , 2021, 13, 138-155.	9.0	32
74	Tolerance of acute hypercapnic acidosis by the European eel (<i>Anguilla anguilla</i>). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2002, 172, 339-346.	1.5	31
75	Local Adaptation to Altitude Underlies Divergent Thermal Physiology in Tropical Killifishes of the Genus <i>Aphyosemion</i> . <i>PLoS ONE</i> , 2013, 8, e54345.	2.5	29
76	Food in the Sea: Size Also Matters for Pelagic Fish. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	29
77	Getting a Good Start in Life? A Comparative Analysis of the Quality of Lagoons as Juvenile Habitats for the Gilthead Seabream <i>Sparus aurata</i> in the Gulf of Lions. <i>Estuaries and Coasts</i> , 2015, 38, 1937-1950.	2.2	28
78	Microcystin “LR exposure causes cardiorespiratory impairments and tissue oxidative damage in trahira, <i>Hoplias malabaricus</i> . <i>Ecotoxicology and Environmental Safety</i> , 2019, 173, 436-443.	6.0	28
79	The contribution of air breathing to aerobic scope and exercise performance in the banded knifefish <i>Gymnotus carapo</i> L.. <i>Journal of Experimental Biology</i> , 2012, 215, 1323-1330.	1.7	27
80	Autonomic regulation of the heart during digestion and aerobic swimming in the European sea bass (<i>Dicentrarchus labrax</i>). <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2010, 156, 463-468.	1.8	25
81	Using aerobic exercise to evaluate sub-lethal tolerance of acute warming in fishes. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	25
82	Measuring oxygen uptake in fishes with bimodal respiration. <i>Journal of Fish Biology</i> , 2016, 88, 206-231.	1.6	24
83	Effects of global warming on fishes and fisheries. <i>Journal of Fish Biology</i> , 2021, 98, 1489-1492.	1.6	24
84	Venous responses during exercise in rainbow trout, <i>Oncorhynchus mykiss</i> : β -adrenergic control and the antihypotensive function of the renin-angiotensin system. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2006, 144, 401-409.	1.8	23
85	Salinity-related variation in gene expression in wild populations of the black-chinned tilapia from various West African coastal marine, estuarine and freshwater habitats. <i>Estuarine, Coastal and Shelf Science</i> , 2011, 91, 102-109.	2.1	23
86	Physiological mechanisms underlying individual variation in tolerance of food deprivation in juvenile European sea bass, <i>Dicentrarchus labrax</i> . <i>Journal of Experimental Biology</i> , 2014, 217, 3283-3292.	1.7	23
87	Effects of diet on responses to exhaustive exercise in Nile tilapia (<i>Oreochromis nilotica</i>) acclimated to three different temperatures. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1996, 114, 43-50.	0.6	21
88	Changes in foraging mode caused by a decline in prey size have major bioenergetic consequences for a small pelagic fish. <i>Journal of Animal Ecology</i> , 2021, 90, 2289-2301.	2.8	21
89	Control of air-breathing in fishes: Central and peripheral receptors. <i>Acta Histochemica</i> , 2018, 120, 642-653.	1.8	20
90	Does <i>Amia Calva</i> aestivate?. <i>Fish Physiology and Biochemistry</i> , 1990, 8, 147-158.	2.3	19

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91	The influence of dietary fatty acid composition on the respiratory and cardiovascular physiology of Adriatic sturgeon (<i>Acipenser naccarii</i>): a review. <i>Journal of Applied Ichthyology</i> , 1999, 15, 265-269.	0.7	19
92	Swimming in air-breathing fishes. <i>Journal of Fish Biology</i> , 2014, 84, 661-681.	1.6	17
93	Muscle bioenergetics of two emblematic Mediterranean fish species: <i>Sardina pilchardus</i> and <i>Sparus aurata</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2019, 235, 174-179.	1.8	17
94	Reflex bradycardia does not influence oxygen consumption during hypoxia in the European eel (<i>Anguilla anguilla</i>). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2010, 180, 495-502.	1.5	16
95	Mechanisms of protein degradation in mantle muscle and proposed gill remodeling in starved <i>Sepia officinalis</i> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012, 303, R427-R437.	1.8	16
96	Cardiovascular responses to hypoxia in the Adriatic sturgeon (<i>Acipenser naccarii</i>). <i>Journal of Applied Ichthyology</i> , 1999, 15, 67-72.	0.7	15
97	Cardioventilatory responses to hypoxia and NaCN in the neotenus axolotl. <i>Respiration Physiology</i> , 1996, 106, 255-262.	2.7	13
98	Effects of water viscosity upon ventilation and metabolism of a flatfish, the common sole <i>Solea solea</i> (L.). <i>Marine Biology</i> , 2007, 152, 803-814.	1.5	12
99	Aggression supersedes individual oxygen demand to drive group air-breathing in a social catfish. <i>Journal of Animal Ecology</i> , 2018, 87, 223-234.	2.8	12
100	Interactive effects of mercury exposure and hypoxia on ECG patterns in two Neotropical freshwater fish species: <i>Matrinxã</i> , <i>Brycon amazonicus</i> and <i>tráa</i> , <i>Hoplias malabaricus</i> . <i>Ecotoxicology</i> , 2020, 29, 375-388.	2.4	12
101	Adrenergic receptors, Na ⁺ /H ⁺ exchange and volume regulation in lungfish erythrocytes. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2002, 172, 87-93.	1.5	11
102	Locomotion in Primitive Fishes. <i>Fish Physiology</i> , 2007, , 319-380.	0.8	11
103	Air-breathing fishes. <i>Journal of Fish Biology</i> , 2014, 84, 547-553.	1.6	11
104	Oxygen uptake, heart rate and activities of locomotor muscles during a critical swimming speed protocol in the gilthead sea bream <i>Sparus aurata</i> . <i>Journal of Fish Biology</i> , 2021, 98, 886-890.	1.6	11
105	The role of the autonomic nervous system in control of cardiac and air-breathing responses to sustained aerobic exercise in the African sharptooth catfish <i>Clarias gariepinus</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2017, 203, 273-280.	1.8	9
106	Effects of Plasma Total Ammonia Content and pH on Urea Excretion in Nile Tilapia. <i>Physiological and Biochemical Zoology</i> , 1999, 72, 116-125.	1.5	8
107	Identifying adverse outcome pathways (AOP) for Amsterdam city fish by integrated field monitoring. <i>Environmental Toxicology and Pharmacology</i> , 2020, 74, 103301.	4.0	7
108	Variations in isotope incorporation rates and trophic discrimination factors of carbon and nitrogen stable isotopes in scales from three European sea bass (<i>Dicentrarchus labrax</i>) populations. <i>Journal of Experimental Marine Biology and Ecology</i> , 2020, 533, 151468.	1.5	7

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109	Cardiac and behavioural responses to hypoxia and warming in free-swimming gilthead seabream, <i>Sparus aurata</i> . Journal of Experimental Biology, 2021, 224, .	1.7	7
110	Candidate gene variation in gilthead sea bream reveals complex spatiotemporal selection patterns between marine and lagoon habitats. Marine Ecology - Progress Series, 2016, 558, 115-127.	1.9	7
111	Anion exchange in the giant erythrocytes of African lungfish. Journal of Fish Biology, 2003, 62, 1044-1052.	1.6	6
112	Effects of oleic acid on the high threshold barium current in seabass <i>Dicentrarchus labrax</i> ventricular myocytes. Journal of Experimental Biology, 2006, 209, 4033-4039.	1.7	6
113	Physiological determinants of individual variation in sensitivity to an organophosphate pesticide in Nile tilapia <i>Oreochromis niloticus</i> . Aquatic Toxicology, 2017, 189, 108-114.	4.0	6
114	An investigation of links between metabolic rate and feed efficiency in European sea bass <i>Dicentrarchus labrax</i> . Journal of Animal Science, 2021, 99, .	0.5	5
115	Settleable atmospheric particulate matter induces stress and affects the oxygen-carrying capacity and innate immunity in Nile tilapia (<i>Oreochromis niloticus</i>). Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2022, 257, 109330.	2.6	5
116	Social dynamics obscure the effect of temperature on air breathing in <i>Corydoras</i> catfish. Journal of Experimental Biology, 2020, 223, .	1.7	4
117	Is starvation a cause of overmortality of the Mediterranean sardine?. Marine Environmental Research, 2021, 170, 105441.	2.5	3
118	Use of complex physiological traits as ecotoxicological biomarkers in tropical freshwater fishes. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2021, 335, 745-760.	1.9	3
119	Correlations between aerobic and anaerobic performance in individual European sea bass. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 153, S99-S100.	1.8	0
120	Effects of stocking density on the energetics and welfare of rainbow trout. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 153, S140.	1.8	0
121	Swim more, weigh less: Linking physiological energetic and behavioural ecology in individual European seabass. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 153, S146-S147.	1.8	0
122	Noisy waters. Journal of Fish Biology, 2019, 94, 691-691.	1.6	0