

David J Mckenzie

List of Publications by Year in descending order

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122
papers

5,841
citations

66234

42
h-index

95083

68
g-index

127
all docs

127
docs citations

127
times ranked

4478
citing authors

#	ARTICLE	IF	CITATIONS
1	Settleable atmospheric particulate matter induces stress and affects the oxygen-carrying capacity and innate immunity in Nile tilapia (<i>Oreochromis niloticus</i>). <i>Comparative Biochemistry and Physiology Part C: Toxicology and Pharmacology</i> , 2022, 257, 109330.	1.3	5
2	Intraspecific variation in tolerance of warming in fishes. <i>Journal of Fish Biology</i> , 2021, 98, 1536-1555.	0.7	69
3	Aerobic swimming in intensive finfish aquaculture: applications for production, mitigation and selection. <i>Reviews in Aquaculture</i> , 2021, 13, 138-155.	4.6	32
4	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.	0.7	11
5	The role of mechanistic physiology in investigating impacts of global warming on fishes. <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	50
6	An investigation of links between metabolic rate and feed efficiency in European sea bass <i>Dicentrarchus labrax</i> . <i>Journal of Animal Science</i> , 2021, 99, .	0.2	5
7	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.	1.3	21
8	Effects of global warming on fishes and fisheries. <i>Journal of Fish Biology</i> , 2021, 98, 1489-1492.	0.7	24
9	Cardiac and behavioural responses to hypoxia and warming in free-swimming gilthead seabream, <i>Sparus aurata</i> . <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	7
10	Is starvation a cause of overmortality of the Mediterranean sardine?. <i>Marine Environmental Research</i> , 2021, 170, 105441.	1.1	3
11	Use of complex physiological traits as ecotoxicological biomarkers in tropical freshwater fishes. <i>Journal of Experimental Zoology Part A: Ecological and Integrative Physiology</i> , 2021, 335, 745-760.	0.9	3
12	Guidelines for reporting methods to estimate metabolic rates by aquatic intermittent-flow respirometry. <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	57
13	Evolutionary and cardiorespiratory physiology of air-breathing and amphibious fishes. <i>Acta Physiologica</i> , 2020, 228, e13406.	1.8	40
14	Identifying adverse outcome pathways (AOP) for Amsterdam city fish by integrated field monitoring. <i>Environmental Toxicology and Pharmacology</i> , 2020, 74, 103301.	2.0	7
15	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.	0.7	7
16	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>tráãra</i> , <i>Hoplias malabaricus</i> . <i>Ecotoxicology</i> , 2020, 29, 375-388.	1.1	12
17	Using aerobic exercise to evaluate sub-lethal tolerance of acute warming in fishes. <i>Journal of Experimental Biology</i> , 2020, 223, .	0.8	25
18	Social dynamics obscure the effect of temperature on air breathing in <i>Corydoras</i> catfish. <i>Journal of Experimental Biology</i> , 2020, 223, .	0.8	4

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19	Food in the Sea: Size Also Matters for Pelagic Fish. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	29
20	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.	0.8	17
21	Noisy waters. <i>Journal of Fish Biology</i> , 2019, 94, 691-691.	0.7	0
22	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.	2.9	28
23	Oxygen- and capacity-limited thermal tolerance: blurring ecology and physiology. <i>Journal of Experimental Biology</i> , 2018, 221, .	0.8	204
24	Aggression supersedes individual oxygen demand to drive group air-breathing in a social catfish. <i>Journal of Animal Ecology</i> , 2018, 87, 223-234.	1.3	12
25	In modelling effects of global warming, invalid assumptions lead to unrealistic projections. <i>Global Change Biology</i> , 2018, 24, 553-556.	4.2	49
26	Control of air-breathing in fishes: Central and peripheral receptors. <i>Acta Histochemica</i> , 2018, 120, 642-653.	0.9	20
27	Lagoon nurseries make a major contribution to adult populations of a highly prized coastal fish. <i>Limnology and Oceanography</i> , 2017, 62, 1219-1233.	1.6	37
28	Models projecting the fate of fish populations under climate change need to be based on valid physiological mechanisms. <i>Global Change Biology</i> , 2017, 23, 3449-3459.	4.2	123
29	Physiological determinants of individual variation in sensitivity to an organophosphate pesticide in Nile tilapia <i>Oreochromis niloticus</i> . <i>Aquatic Toxicology</i> , 2017, 189, 108-114.	1.9	6
30	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.	0.8	9
31	Effects of glyphosate and the glyphosate based herbicides Roundup Original ® and Roundup Transorb ® on respiratory morphophysiology of bullfrog tadpoles. <i>Chemosphere</i> , 2016, 156, 37-44.	4.2	43
32	Measuring oxygen uptake in fishes with bimodal respiration. <i>Journal of Fish Biology</i> , 2016, 88, 206-231.	0.7	24
33	Conservation physiology of marine fishes: state of the art and prospects for policy. , 2016, 4, cow046.		89
34	Understanding the individual to implement the ecosystem approach to fisheries management. , 2016, 4, cow005.		46
35	A new analysis of hypoxia tolerance in fishes using a database of critical oxygen level (P_{crit}). , 2016, 4, cow012.		133
36	Metabolic rate in fishes: definitions, methods and significance for conservation physiology. <i>Journal of Fish Biology</i> , 2016, 88, 1-9.	0.7	75

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37	Candidate gene variation in gilthead sea bream reveals complex spatiotemporal selection patterns between marine and lagoon habitats. <i>Marine Ecology - Progress Series</i> , 2016, 558, 115-127.	0.9	7
38	To boldly gulp: standard metabolic rate and boldness have context-dependent influences on risk-taking to breathe air in a catfish. <i>Journal of Experimental Biology</i> , 2015, 218, 3762-3770.	0.8	37
39	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.	1.0	28
40	Fish swimming in schools save energy regardless of their spatial position. <i>Behavioral Ecology and Sociobiology</i> , 2015, 69, 219-226.	0.6	195
41	Fast growers sprint slower: effects of food deprivation and re-feeding on sprint swimming performance in individual juvenile European sea bass. <i>Journal of Experimental Biology</i> , 2014, 217, 859-65.	0.8	37
42	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.	0.8	63
43	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.	0.8	23
44	Conservation physiology across scales: insights from the marine realm. , 2014, 2, cou024-cou024.		37
45	Swimming in air-breathing fishes. <i>Journal of Fish Biology</i> , 2014, 84, 661-681.	0.7	17
46	Air-breathing fishes. <i>Journal of Fish Biology</i> , 2014, 84, 547-553.	0.7	11
47	Temporal stability of otolith elemental fingerprints discriminates among lagoon nursery habitats. <i>Estuarine, Coastal and Shelf Science</i> , 2013, 131, 182-193.	0.9	37
48	Root Effect Hemoglobin May Have Evolved to Enhance General Tissue Oxygen Delivery. <i>Science</i> , 2013, 340, 1327-1329.	6.0	130
49	Environmental stressors alter relationships between physiology and behaviour. <i>Trends in Ecology and Evolution</i> , 2013, 28, 651-658.	4.2	291
50	Local Adaptation to Altitude Underlies Divergent Thermal Physiology in Tropical Killifishes of the Genus <i>Aphyosemion</i> . <i>PLoS ONE</i> , 2013, 8, e54345.	1.1	29
51	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.	1.1	46
52	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.	0.9	16
53	Conservation physiology of marine fishes: advancing the predictive capacity of models. <i>Biology Letters</i> , 2012, 8, 900-903.	1.0	43
54	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.	0.8	27

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55	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. <i>Aquaculture</i> , 2012, 324-325, 226-233.	1.7	41
56	Effects of stocking density and sustained aerobic exercise on growth, energetics and welfare of rainbow trout. <i>Aquaculture</i> , 2012, 338-341, 216-222.	1.7	78
57	Aerobic capacity influences the spatial position of individuals within fish schools. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 357-364.	1.2	147
58	A relationship between metabolic rate and risk-taking behaviour is revealed during hypoxia in juvenile European sea bass. <i>Functional Ecology</i> , 2012, 26, 134-143.	1.7	139
59	Behavioural and kinematic components of the fast-start escape response in fish: individual variation and temporal repeatability. <i>Journal of Experimental Biology</i> , 2011, 214, 3102-3110.	0.8	78
60	Fuel, fasting, fear: routine metabolic rate and food deprivation exert synergistic effects on risk-taking in individual juvenile European sea bass. <i>Journal of Animal Ecology</i> , 2011, 80, 1024-1033.	1.3	172
61	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.	0.9	23
62	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.	0.7	16
63	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.	0.8	25
64	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
65	Control of respiration in fish, amphibians and reptiles. <i>Brazilian Journal of Medical and Biological Research</i> , 2010, 43, 409-424.	0.7	48
66	Physiological mechanisms underlying a trade-off between growth rate and tolerance of feed deprivation in the European sea bass (<i>Dicentrarchus labrax</i>). <i>Journal of Experimental Biology</i> , 2010, 213, 1143-1152.	0.8	94
67	An Investigation of Metabolic Prioritization in the European Sea Bass, <i>Dicentrarchus labrax</i> . <i>Physiological and Biochemical Zoology</i> , 2010, 83, 68-77.	0.6	62
68	Individual variation and repeatability in aerobic and anaerobic swimming performance of European sea bass, <i>Dicentrarchus labrax</i> . <i>Journal of Experimental Biology</i> , 2010, 213, 26-32.	0.8	123
69	Sublethal Concentrations of Ammonia Impair Performance of the Teleost Fast-Start Escape Response. <i>Physiological and Biochemical Zoology</i> , 2009, 82, 353-362.	0.6	41
70	Recovery by the Norway lobster <i>Nephrops norvegicus</i> (L.) from the physiological stresses of trawling: Influence of season and live-storage position. <i>Journal of Experimental Marine Biology and Ecology</i> , 2009, 373, 124-132.	0.7	34
71	Abolition of reflex bradycardia by cardiac vagotomy has no effect on the regulation of oxygen uptake by Atlantic cod in progressive hypoxia. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2009, 153, 332-338.	0.8	32
72	Correlations between aerobic and anaerobic performance in individual European sea bass. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2009, 153, S99-S100.	0.8	0

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73	Effects of stocking density on the energetics and welfare of rainbow trout. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2009, 153, S140.	0.8	0
74	Swim more, weigh less: Linking physiological energetic and behavioural ecology in individual European seabass. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2009, 153, S146-S147.	0.8	0
75	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.	0.8	53
76	Chapter 2 Behavioral Responses and Ecological Consequences. <i>Fish Physiology</i> , 2009, , 25-77.	0.2	71
77	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.	0.7	42
78	Gastrointestinal Blood Flow and Postprandial Metabolism in Swimming Sea Bass <i>Dicentrarchus labrax</i> . <i>Physiological and Biochemical Zoology</i> , 2008, 81, 663-672.	0.6	51
79	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.	0.8	52
80	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.	1.8	66
81	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.	1.8	60
82	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.	1.7	43
83	Locomotion in Primitive Fishes. <i>Fish Physiology</i> , 2007, , 319-380.	0.2	11
84	Swimming alters responses to hypoxia in the Adriatic sturgeon <i>Acipenser naccarii</i> . <i>Journal of Fish Biology</i> , 2007, 70, 651-658.	0.7	36
85	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.	0.7	12
86	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.	0.8	23
87	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.	0.8	57
88	Effects of oleic acid on the high threshold barium current in seabass <i>Dicentrarchus labrax</i> ventricular myocytes. <i>Journal of Experimental Biology</i> , 2006, 209, 4033-4039.	0.8	6
89	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.	0.7	53
90	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. <i>Physiological and Biochemical Zoology</i> , 2005, 78, 744-755.	0.6	81

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91	Linking swimming performance, cardiac pumping ability and cardiac anatomy in rainbow trout. Journal of Experimental Biology, 2005, 208, 1775-1784.	0.8	170
92	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.	1.9	34
93	The effects of sustained exercise and hypoxia upon oxygen tensions in the red muscle of rainbow trout. Journal of Experimental Biology, 2004, 207, 3629-3637.	0.8	60
94	Sub-lethal plasma ammonia accumulation and the exercise performance of salmonids. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2003, 135, 515-526.	0.8	54
95	Anion exchange in the giant erythrocytes of African lungfish. Journal of Fish Biology, 2003, 62, 1044-1052.	0.7	6
96	Effects of growth hormone transgenesis on metabolic rate, exercise performance and hypoxia tolerance in tilapia hybrids. Journal of Fish Biology, 2003, 63, 398-409.	0.7	86
97	Tolerance of chronic hypercapnia by the European eel <i>Anguilla anguilla</i> . Journal of Experimental Biology, 2003, 206, 1717-1726.	0.8	65
98	Adrenergic receptors, Na ⁺ / H ⁺ exchange and volume regulation in lungfish erythrocytes. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2002, 172, 87-93.	0.7	11
99	Tolerance of acute hypercapnic acidosis by the European eel (<i>Anguilla anguilla</i>). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2002, 172, 339-346.	0.7	31
100	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>). Canadian Journal of Fisheries and Aquatic Sciences, 2001, 58, 1104-1112.	0.7	66
101	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.	0.7	40
102	Effects of dietary fatty acids on the respiratory and cardiovascular physiology of fish. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2001, 128, 605-619.	0.8	49
103	Title is missing!. Fish Physiology and Biochemistry, 2000, 22, 281-296.	0.9	35
104	Effects of Plasma Total Ammonia Content and pH on Urea Excretion in Nile Tilapia. Physiological and Biochemical Zoology, 1999, 72, 116-125.	0.6	8
105	Highlights of the 3rd International Symposium on Sturgeon: Conclusions and Recommendations. Journal of Applied Ichthyology, 1999, 15, 1-6.	0.3	69
106	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.	0.3	39
107	Some aspects of osmotic and ionic regulation in Adriatic sturgeon <i>Acipenser naccarii</i> . II: Morpho-physiological adjustments to hyperosmotic environments. Journal of Applied Ichthyology, 1999, 15, 61-66.	0.3	42
108	Cardiovascular responses to hypoxia in the Adriatic sturgeon (<i>Acipenser naccarii</i>). Journal of Applied Ichthyology, 1999, 15, 67-72.	0.3	15

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109	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.	0.3	19
110	Title is missing!. <i>Fish Physiology and Biochemistry</i> , 1998, 19, 123-134.	0.9	68
111	Title is missing!. <i>Fish Physiology and Biochemistry</i> , 1998, 19, 111-122.	0.9	98
112	Oxygen consumption and ventilatory reflex responses are influenced by dietary lipids in sturgeon. <i>Fish Physiology and Biochemistry</i> , 1997, 16, 365-379.	0.9	45
113	Cardioventilatory responses to hypoxia and NaCN in the neotenus axolotl. <i>Respiration Physiology</i> , 1996, 106, 255-262.	2.8	13
114	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.	0.7	21
115	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.	0.9	51
116	Aspects of cardioventilatory control in the adriatic sturgeon (<i>Acipenser naccarii</i>). <i>Respiration Physiology</i> , 1995, 100, 45-53.	2.8	53
117	Effects of changes in plasma pH, CO ₂ and ammonia on ventilation in trout. <i>Fish Physiology and Biochemistry</i> , 1993, 10, 507-515.	0.9	37
118	The role of dietary n-3 fatty acid and vitamin e supplements in growth of sturgeon (<i>Acipenser</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382	0.7	34
119	A comparison of highly unsaturated fatty acid levels in wild and farmed eels (<i>Anguilla Anguilla</i>). <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1992, 101, 79-81.	0.2	40
120	Ventilatory and Cardiovascular Responses to Blood pH, Plasma P _{co} ₂ , 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
121	The Effects of Branchial Denervation and Pseudobranch Ablation on Cardioventilatory Control in an Air-Breathing Fish. <i>Journal of Experimental Biology</i> , 1991, 161, 347-365.	0.8	80
122	Does <i>Amia Calva</i> aestivate?. <i>Fish Physiology and Biochemistry</i> , 1990, 8, 147-158.	0.9	19