

Steve F Perry

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75
papers

2,217
citations

23
h-index

46
g-index

78
ext. papers

2,492
ext. citations

3.5
avg, IF

5.39
L-index

#	Paper	IF	Citations
75	The chloride cell: structure and function in the gills of freshwater fishes. <i>Annual Review of Physiology</i> , 1997 , 59, 325-47	23.1	430
74	Effects of cortisol on gill chloride cell morphology and ionic uptake in the freshwater trout, <i>Salmo gairdneri</i> . <i>Cell and Tissue Research</i> , 1990 , 259, 429-442	4.2	181
73	Control and coordination of gas transfer in fishes. <i>Canadian Journal of Zoology</i> , 1989 , 67, 2961-2970	1.5	141
72	Sensing and transfer of respiratory gases at the fish gill. <i>The Journal of Experimental Zoology</i> , 2002 , 293, 249-63		108
71	Control and consequences of adrenergic activation of red blood cell Na ⁺ /H ⁺ exchange on blood oxygen and carbon dioxide transport in fish. <i>The Journal of Experimental Zoology</i> , 1992 , 263, 160-75		91
70	Ammonia excretion via Rhcg1 facilitates Na ⁺ uptake in larval zebrafish, <i>Danio rerio</i> , in acidic water. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011 , 301, R1517-28 ^{3.2}		77
69	The physiology of fish at low pH: the zebrafish as a model system. <i>Journal of Experimental Biology</i> , 2014 , 217, 651-62	3	75
68	The effects of soft-water acclimation on gill structure in the rainbow trout <i>Oncorhynchus mykiss</i> . <i>Cell and Tissue Research</i> , 1996 , 285, 75-82	4.2	67
67	Strategies for maintaining Na ⁺ balance in zebrafish (<i>Danio rerio</i>) during prolonged exposure to acidic water. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2011 , 160, 52-62	2.6	65
66	Cardiorespiratory adjustments during hypercarbia in rainbow trout <i>Oncorhynchus mykiss</i> are initiated by external CO ₂ receptors on the first gill arch. <i>Journal of Experimental Biology</i> , 2002 , 205, 3357-3365		55
65	Mechanisms and regulation of Na ⁽⁺⁾ uptake by freshwater fish. <i>Respiratory Physiology and Neurobiology</i> , 2012 , 184, 249-56	2.8	51
64	Mechanisms and consequences of carbon dioxide sensing in fish. <i>Respiratory Physiology and Neurobiology</i> , 2012 , 184, 309-15	2.8	44
63	Do zebrafish Rh proteins act as dual ammonia-CO ₂ channels?. <i>Journal of Experimental Zoology</i> , 2010 , 313, 618-21		44
62	Cardiorespiratory adjustments during hypercarbia in rainbow trout <i>Oncorhynchus mykiss</i> are initiated by external CO ₂ receptors on the first gill arch. <i>Journal of Experimental Biology</i> , 2002 , 205, 3357-65	3	42
61	The autonomic nervous system and chromaffin tissue: neuroendocrine regulation of catecholamine secretion in non-mammalian vertebrates. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2011 , 165, 54-66	2.4	40
60	The role of hydrogen sulphide in the control of breathing in hypoxic zebrafish (<i>Danio rerio</i>). <i>Journal of Physiology</i> , 2014 , 592, 3075-88	3.9	39
59	A role for nitric oxide in the control of breathing in zebrafish (<i>Danio rerio</i>). <i>Journal of Experimental Biology</i> , 2015 , 218, 3746-53	3	38

58	Sensing and surviving hypoxia in vertebrates. <i>Annals of the New York Academy of Sciences</i> , 2016 , 1365, 43-58	6.5	35
57	Fooling a freshwater fish: how dietary salt transforms the rainbow trout gill into a seawater gill phenotype. <i>Journal of Experimental Biology</i> , 2006 , 209, 4591-6	3	33
56	Ionic and acid-base regulation. <i>Fish Physiology</i> , 2010 , 29, 311-344	2	32
55	Acid-base regulation in the plainfin midshipman (<i>Porichthys notatus</i>): an aglomerular marine teleost. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2010 , 180, 1213-25	2.2	32
54	The Role of Circulating Catecholamines in the Ventilatory and Hypertensive Responses to Hypoxia in the Atlantic Cod (<i>Gadus morhua</i>). <i>Physiological Zoology</i> , 1991 , 64, 1087-1109		32
53	Hydrogen sulfide stimulates catecholamine secretion in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009 , 296, R133-40	3.2	26
52	Cardiac responses to hypercapnia in larval zebrafish (<i>Danio rerio</i>): the links between CO ₂ chemoreception, catecholamines and carbonic anhydrase. <i>Journal of Experimental Biology</i> , 2014 , 217, 3569-78	3	21
51	Heme oxygenase-1 (HO-1) mediated respiratory responses to hypoxia in the goldfish, <i>Carassius auratus</i> . <i>Respiratory Physiology and Neurobiology</i> , 2014 , 199, 1-8	2.8	20
50	Air breathing and aquatic gas exchange during hypoxia in armoured catfish. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2017 , 187, 117-133	2.2	20
49	The water channel aquaporin-1a1 facilitates movement of CO ₂ and ammonia in zebrafish (<i>Danio rerio</i>) larvae. <i>Journal of Experimental Biology</i> , 2015 , 218, 3931-40	3	20
48	Loss-of-function approaches in comparative physiology: is there a future for knockdown experiments in the era of genome editing?. <i>Journal of Experimental Biology</i> , 2019 , 222,	3	19
47	The effects of experimental anaemia on CO ₂ excretion in vitro in rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Fish Physiology and Biochemistry</i> , 1996 , 15, 83-94	2.7	19
46	An Essential Role for Parathyroid Hormone in Gill Formation and Differentiation of Ion-Transporting Cells in Developing Zebrafish. <i>Endocrinology</i> , 2015 , 156, 2384-94	4.8	18
45	The consequences of reversible gill remodelling on ammonia excretion in goldfish (<i>Carassius auratus</i>). <i>Journal of Experimental Biology</i> , 2010 , 213, 3656-65	3	18
44	Neuroendocrine control of ionic balance in zebrafish. <i>General and Comparative Endocrinology</i> , 2016 , 234, 40-6	3	18
43	The interactive effects of exercise and gill remodeling in goldfish (<i>Carassius auratus</i>). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2012 , 182, 935-45	2.2	17
42	The effects of repeated physical stress or fasting on catecholamine storage and release in the rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Journal of Fish Biology</i> , 1994 , 45, 365-378	1.9	17
41	Conflict and Compromise: Using Reversible Remodeling to Manage Competing Physiological Demands at the Fish Gill. <i>Physiology</i> , 2018 , 33, 412-422	9.8	16

40	A role for sodium-chloride cotransporters in the rapid regulation of ion uptake following acute environmental acidosis: new insights from the zebrafish model. <i>American Journal of Physiology - Cell Physiology</i> , 2016 , 311, C931-C941	5.4	15
39	An emerging role for gasotransmitters in the control of breathing and ionic regulation in fish. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2016 , 186, 145-59	2.2	14
38	Role of internal convection in respiratory gas transfer and aerobic metabolism in larval zebrafish (Danio rerio). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019 , 316, R255-R264	3.2	13
37	Effects of metabolic acid-base disturbances and elevated catecholamines on the acid-base disequilibrium in the arterial blood of rainbow trout. <i>The Journal of Experimental Zoology</i> , 1996 , 274, 281-290		13
36	Interactive effects of development and hypoxia on catecholamine synthesis and cardiac function in zebrafish (Danio rerio). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2011 , 181, 527-38	2.2	12
35	Hydrogen sulfide promotes calcium uptake in larval zebrafish. <i>American Journal of Physiology - Cell Physiology</i> , 2015 , 309, C60-9	5.4	11
34	Hif-1 β paralogs play a role in the hypoxic ventilatory response of larval and adult zebrafish (). <i>Journal of Experimental Biology</i> , 2019 , 222,	3	11
33	Breathing with fins: do the pectoral fins of larval fishes play a respiratory role?. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020 , 318, R89-R97	3.2	10
32	Evaluating the physiological significance of hypoxic hyperventilation in larval zebrafish (). <i>Journal of Experimental Biology</i> , 2019 , 222,	3	10
31	Loss of hypoxia-inducible factor 1 β affects hypoxia tolerance in larval and adult zebrafish (). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020 , 287, 20200798	4.4	9
30	The role of angiotensin II in regulating catecholamine secretion during hypoxia in rainbow trout <i>Oncorhynchus mykiss</i> . <i>Journal of Experimental Biology</i> , 2001 , 204, 4169-4176	3	9
29	Role of endogenous carbon monoxide in the control of breathing in zebrafish (Danio rerio). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016 , 311, R1262-R1270	2.7	9
28	Hypoxia inducible factor-1 knockout does not impair acute thermal tolerance or heat hardening in zebrafish. <i>Biology Letters</i> , 2020 , 16, 20200292	3.6	8
27	Evidence for a role of heme oxygenase-1 in the control of cardiac function in zebrafish (Danio rerio) larvae exposed to hypoxia. <i>Journal of Experimental Biology</i> , 2016 , 219, 1563-71	3	8
26	Assessing the role of the acid-sensing ion channel ASIC4b in sodium uptake by larval zebrafish. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2018 , 226, 1-10	2.6	7
25	Cardio-respiratory effects of chloramine-T exposure in rainbow trout. <i>Experimental Biology Online</i> , 1999 , 4, 1-59		7
24	Relationships between the peak hypoxic ventilatory response and critical O tension in larval and adult zebrafish (). <i>Journal of Experimental Biology</i> , 2020 , 223,	3	6
23	The Rhesus glycoprotein Rhcg is expendable for ammonia excretion and Na uptake in zebrafish (Danio rerio). <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2020 , 247, 110722	2.6	4

22	Reassessing the contribution of the Na/H exchanger Nhe3b to Na uptake in zebrafish () using CRISPR/Cas9 gene editing. <i>Journal of Experimental Biology</i> , 2020 , 223,	3	4
21	Neuroendocrine control of breathing in fish. <i>Molecular and Cellular Endocrinology</i> , 2020 , 509, 110800	4.4	4
20	Effects of chronic dietary salt loading on the renin angiotensin and adrenergic systems of rainbow trout (<i>Oncorhynchus mykiss</i>). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011 , 301, R811-21	3.2	3
19	Branchial Ionic Flux Responses in Rainbow Trout to Chloramine-T after Acclimation to Different Levels of Water Hardness. <i>Journal of Aquatic Animal Health</i> , 1997 , 9, 196-202	2.6	3
18	Respirometry and cutaneous oxygen flux measurements reveal a negligible aerobic cost of ion regulation in larval zebrafish (). <i>Journal of Experimental Biology</i> , 2020 , 223,	3	3
17	The evolutionary and physiological significance of the Hif pathway in teleost fishes. <i>Journal of Experimental Biology</i> , 2021 , 224,	3	3
16	Use of gene knockout to examine serotonergic control of ion uptake in zebrafish reveals the importance of controlling for genetic background: A cautionary tale. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2019 , 238, 110558	2.6	2
15	Expression of ion transport genes in ionocytes isolated from larval zebrafish () exposed to acidic or Na-deficient water. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020 , 319, R412-R427	3.2	2
14	Does hypoxia-inducible factor 1 β play a role in regulating cutaneous oxygen flux in larval zebrafish (<i>Danio rerio</i>)?. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2021 , 191, 645-655	2.2	2
13	Inhibition of calcium uptake during hypoxia in developing zebrafish is mediated by hypoxia-inducible factor. <i>Journal of Experimental Biology</i> , 2016 , 219, 3988-3995	3	2
12	Disruption of tph1 genes demonstrates the importance of serotonin in regulating ventilation in larval zebrafish (<i>Danio rerio</i>). <i>Respiratory Physiology and Neurobiology</i> , 2021 , 285, 103594	2.8	2
11	Hypoxia inducible factor 1 β s minimally involved in determining the time domains of the hypoxic ventilatory response in adult zebrafish (<i>Danio rerio</i>). <i>Respiratory Physiology and Neurobiology</i> , 2021 , 294, 103774	2.8	2
10	A time differential staining technique coupled with full bilateral gill denervation to study ionocytes in fish. <i>Journal of Visualized Experiments</i> , 2015 ,	1.6	1
9	Aquatic surface respiration improves survival during hypoxia in zebrafish () lacking hypoxia-inducible factor 1 β . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022 , 289, 20211863	4.4	1
8	The role of TASK-2 channels in CO sensing in zebrafish (). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020 , 319, R329-R342	3.2	1
7	Respiratory responses to external ammonia in zebrafish (<i>Danio rerio</i>). <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2021 , 251, 110822	2.6	1
6	Use of a carbonic anhydrase Ca17a knockout to investigate mechanisms of ion uptake in zebrafish (). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021 , 320, R55-R68	3.2	1
5	Does blood flow limit acute hypoxia performance in larval zebrafish (<i>Danio rerio</i>)?. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2021 , 191, 469-478	2.2	1

4	The effects of dissolved organic carbon on the reflex ventilatory responses of the neotropical teleost (<i>Colossoma macropomum</i>) to hypoxia or hypercapnia. <i>Chemosphere</i> , 2021 , 277, 130314	8.4	1
3	Hif-1 β s not required for the development of cardiac adrenergic control in zebrafish (<i>Danio rerio</i>). <i>Journal of Experimental Zoology Part A: Ecological and Integrative Physiology</i> , 2021 , 335, 623-631	1.9	0
2	Marking the Retirement of Chris Wood from McMaster University. <i>Journal of Experimental Biology</i> , 2014 , 217, 637-8	3	
1	Hydrogen Sulfide as an Oxygen Sensor in Trout Chemoreceptors. <i>FASEB Journal</i> , 2008 , 22, 1224.1	0.9	