

# Steve F Perry

## List of Publications by Year in Descending Order

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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	Aquatic surface respiration improves survival during hypoxia in zebrafish ( <i>Danio rerio</i> ) lacking hypoxia-inducible factor 1 $\alpha$ . <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2022</b> , 289, 20211863	4.4	1
74	Does hypoxia-inducible factor 1 $\beta$ 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> , <b>2021</b> , 191, 645-655	2.2	2
73	Hif-1 $\beta$ 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> , <b>2021</b> , 335, 623-631	1.9	0
72	Respiratory responses to external ammonia in zebrafish ( <i>Danio rerio</i> ). <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , <b>2021</b> , 251, 110822	2.6	1
71	Disruption of <i>tph1</i> genes demonstrates the importance of serotonin in regulating ventilation in larval zebrafish ( <i>Danio rerio</i> ). <i>Respiratory Physiology and Neurobiology</i> , <b>2021</b> , 285, 103594	2.8	2
70	Use of a carbonic anhydrase Ca17a knockout to investigate mechanisms of ion uptake in zebrafish ( <i>Danio rerio</i> ). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2021</b> , 320, R55-R68	3.2	1
69	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> , <b>2021</b> , 191, 469-478	2.2	1
68	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> , <b>2021</b> , 277, 130314	8.4	1
67	The evolutionary and physiological significance of the Hif pathway in teleost fishes. <i>Journal of Experimental Biology</i> , <b>2021</b> , 224,	3	3
66	Hypoxia inducible factor 1 $\beta$ 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> , <b>2021</b> , 294, 103774	2.8	2
65	Hypoxia inducible factor-1 knockout does not impair acute thermal tolerance or heat hardening in zebrafish. <i>Biology Letters</i> , <b>2020</b> , 16, 20200292	3.6	8
64	Loss of hypoxia-inducible factor 1 $\beta$ affects hypoxia tolerance in larval and adult zebrafish ( <i>Danio rerio</i> ). <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2020</b> , 287, 20200798	4.4	9
63	Relationships between the peak hypoxic ventilatory response and critical O <sub>2</sub> tension in larval and adult zebrafish ( <i>Danio rerio</i> ). <i>Journal of Experimental Biology</i> , <b>2020</b> , 223,	3	6
62	The Rhesus glycoprotein Rhcg is expendable for ammonia excretion and Na uptake in zebrafish ( <i>Danio rerio</i> ). <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , <b>2020</b> , 247, 110722	2.6	4
61	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> , <b>2020</b> , 318, R89-R97	3.2	10
60	Expression of ion transport genes in ionocytes isolated from larval zebrafish ( <i>Danio rerio</i> ) exposed to acidic or Na-deficient water. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2020</b> , 319, R412-R427	3.2	2
59	Respirometry and cutaneous oxygen flux measurements reveal a negligible aerobic cost of ion regulation in larval zebrafish ( <i>Danio rerio</i> ). <i>Journal of Experimental Biology</i> , <b>2020</b> , 223,	3	3

58	The role of TASK-2 channels in CO sensing in zebrafish (). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2020</b> , 319, R329-R342	3.2	1
57	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> , <b>2020</b> , 223,	3	4
56	Neuroendocrine control of breathing in fish. <i>Molecular and Cellular Endocrinology</i> , <b>2020</b> , 509, 110800	4.4	4
55	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> , <b>2019</b> , 316, R255-R264	3.2	13
54	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> , <b>2019</b> , 222,	3	19
53	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 &amp; Integrative Physiology</i> , <b>2019</b> , 238, 110558	2.6	2
52	Evaluating the physiological significance of hypoxic hyperventilation in larval zebrafish (). <i>Journal of Experimental Biology</i> , <b>2019</b> , 222,	3	10
51	Hif-1 $\beta$ paralogs play a role in the hypoxic ventilatory response of larval and adult zebrafish (). <i>Journal of Experimental Biology</i> , <b>2019</b> , 222,	3	11
50	Assessing the role of the acid-sensing ion channel ASIC4b in sodium uptake by larval zebrafish. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , <b>2018</b> , 226, 1-10	2.6	7
49	Conflict and Compromise: Using Reversible Remodeling to Manage Competing Physiological Demands at the Fish Gill. <i>Physiology</i> , <b>2018</b> , 33, 412-422	9.8	16
48	Air breathing and aquatic gas exchange during hypoxia in armoured catfish. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , <b>2017</b> , 187, 117-133	2.2	20
47	Sensing and surviving hypoxia in vertebrates. <i>Annals of the New York Academy of Sciences</i> , <b>2016</b> , 1365, 43-58	6.5	35
46	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> , <b>2016</b> , 219, 1563-71	3	8
45	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> , <b>2016</b> , 311, C931-C941	5.4	15
44	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> , <b>2016</b> , 311, R1262-R1270	3.7	9
43	Inhibition of calcium uptake during hypoxia in developing zebrafish is mediated by hypoxia-inducible factor. <i>Journal of Experimental Biology</i> , <b>2016</b> , 219, 3988-3995	3	2
42	Neuroendocrine control of ionic balance in zebrafish. <i>General and Comparative Endocrinology</i> , <b>2016</b> , 234, 40-6	3	18
41	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> , <b>2016</b> , 186, 145-59	2.2	14

40	Hydrogen sulfide promotes calcium uptake in larval zebrafish. <i>American Journal of Physiology - Cell Physiology</i> , <b>2015</b> , 309, C60-9	5.4	11
39	An Essential Role for Parathyroid Hormone in Gill Formation and Differentiation of Ion-Transporting Cells in Developing Zebrafish. <i>Endocrinology</i> , <b>2015</b> , 156, 2384-94	4.8	18
38	A role for nitric oxide in the control of breathing in zebrafish ( <i>Danio rerio</i> ). <i>Journal of Experimental Biology</i> , <b>2015</b> , 218, 3746-53	3	38
37	The water channel aquaporin-1a1 facilitates movement of CO <sub>2</sub> and ammonia in zebrafish ( <i>Danio rerio</i> ) larvae. <i>Journal of Experimental Biology</i> , <b>2015</b> , 218, 3931-40	3	20
36	A time differential staining technique coupled with full bilateral gill denervation to study ionocytes in fish. <i>Journal of Visualized Experiments</i> , <b>2015</b> ,	1.6	1
35	The physiology of fish at low pH: the zebrafish as a model system. <i>Journal of Experimental Biology</i> , <b>2014</b> , 217, 651-62	3	75
34	Marking the Retirement of Chris Wood from McMaster University. <i>Journal of Experimental Biology</i> , <b>2014</b> , 217, 637-8	3	
33	The role of hydrogen sulphide in the control of breathing in hypoxic zebrafish ( <i>Danio rerio</i> ). <i>Journal of Physiology</i> , <b>2014</b> , 592, 3075-88	3.9	39
32	Cardiac responses to hypercapnia in larval zebrafish ( <i>Danio rerio</i> ): the links between CO <sub>2</sub> chemoreception, catecholamines and carbonic anhydrase. <i>Journal of Experimental Biology</i> , <b>2014</b> , 217, 3569-78	3	21
31	Heme oxygenase-1 (HO-1) mediated respiratory responses to hypoxia in the goldfish, <i>Carassius auratus</i> . <i>Respiratory Physiology and Neurobiology</i> , <b>2014</b> , 199, 1-8	2.8	20
30	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> , <b>2012</b> , 182, 935-45	2.2	17
29	Mechanisms and regulation of Na <sup>(+)</sup> uptake by freshwater fish. <i>Respiratory Physiology and Neurobiology</i> , <b>2012</b> , 184, 249-56	2.8	51
28	Mechanisms and consequences of carbon dioxide sensing in fish. <i>Respiratory Physiology and Neurobiology</i> , <b>2012</b> , 184, 309-15	2.8	44
27	The autonomic nervous system and chromaffin tissue: neuroendocrine regulation of catecholamine secretion in non-mammalian vertebrates. <i>Autonomic Neuroscience: Basic and Clinical</i> , <b>2011</b> , 165, 54-66	2.4	40
26	Strategies for maintaining Na <sup>+</sup> balance in zebrafish ( <i>Danio rerio</i> ) during prolonged exposure to acidic water. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , <b>2011</b> , 160, 52-62	2.6	65
25	Interactive effects of development and hypoxia on catecholamine synthesis and cardiac function in zebrafish ( <i>Danio rerio</i> ). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , <b>2011</b> , 181, 527-38	2.2	12
24	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> , <b>2011</b> , 301, R811-21	3.2	3
23	Ammonia excretion via Rhcg1 facilitates Na <sup>+</sup> uptake in larval zebrafish, <i>Danio rerio</i> , in acidic water. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2011</b> , 301, R1517-28	3.2	77

22	The consequences of reversible gill remodelling on ammonia excretion in goldfish ( <i>Carassius auratus</i> ). <i>Journal of Experimental Biology</i> , <b>2010</b> , 213, 3656-65	3	18
21	Ionic and acid-base regulation. <i>Fish Physiology</i> , <b>2010</b> , 29, 311-344	2	32
20	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> , <b>2010</b> , 180, 1213-25	2.2	32
19	Do zebrafish Rh proteins act as dual ammonia-CO <sub>2</sub> channels?. <i>Journal of Experimental Zoology</i> , <b>2010</b> , 313, 618-21		44
18	Hydrogen sulfide stimulates catecholamine secretion in rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2009</b> , 296, R133-40	3.2	26
17	Hydrogen Sulfide as an Oxygen Sensor in Trout Chemoreceptors. <i>FASEB Journal</i> , <b>2008</b> , 22, 1224.1	0.9	
16	Fooling a freshwater fish: how dietary salt transforms the rainbow trout gill into a seawater gill phenotype. <i>Journal of Experimental Biology</i> , <b>2006</b> , 209, 4591-6	3	33
15	Sensing and transfer of respiratory gases at the fish gill. <i>The Journal of Experimental Zoology</i> , <b>2002</b> , 293, 249-63		108
14	Cardiorespiratory adjustments during hypercarbia in rainbow trout <i>Oncorhynchus mykiss</i> are initiated by external CO <sub>2</sub> receptors on the first gill arch. <i>Journal of Experimental Biology</i> , <b>2002</b> , 205, 3357-3365	3	55
13	Cardiorespiratory adjustments during hypercarbia in rainbow trout <i>Oncorhynchus mykiss</i> are initiated by external CO <sub>2</sub> receptors on the first gill arch. <i>Journal of Experimental Biology</i> , <b>2002</b> , 205, 3357-65	3	42
12	The role of angiotensin II in regulating catecholamine secretion during hypoxia in rainbow trout <i>Oncorhynchus mykiss</i> . <i>Journal of Experimental Biology</i> , <b>2001</b> , 204, 4169-4176	3	9
11	Cardio-respiratory effects of chloramine-T exposure in rainbow trout. <i>Experimental Biology Online</i> , <b>1999</b> , 4, 1-59		7
10	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> , <b>1997</b> , 9, 196-202	2.6	3
9	The chloride cell: structure and function in the gills of freshwater fishes. <i>Annual Review of Physiology</i> , <b>1997</b> , 59, 325-47	23.1	430
8	The effects of soft-water acclimation on gill structure in the rainbow trout <i>Oncorhynchus mykiss</i> . <i>Cell and Tissue Research</i> , <b>1996</b> , 285, 75-82	4.2	67
7	The effects of experimental anaemia on CO <sub>2</sub> excretion in vitro in rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Fish Physiology and Biochemistry</i> , <b>1996</b> , 15, 83-94	2.7	19
6	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> , <b>1996</b> , 274, 281-290		13
5	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> , <b>1994</b> , 45, 365-378	1.9	17

4	Control and consequences of adrenergic activation of red blood cell Na <sup>+</sup> /H <sup>+</sup> exchange on blood oxygen and carbon dioxide transport in fish. <i>The Journal of Experimental Zoology</i> , <b>1992</b> , 263, 160-75		91
3	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> , <b>1991</b> , 64, 1087-1109		32
2	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> , <b>1990</b> , 259, 429-442	4.2	181
1	Control and coordination of gas transfer in fishes. <i>Canadian Journal of Zoology</i> , <b>1989</b> , 67, 2961-2970	1.5	141