Steve F Perry

List of Publications by Year
in descending order

78 papers	2,781 citations	218381 26 h-index	182168 51 g-index
78 all docs	78 docs citations	78 times ranked	1659 citing authors

#	Article	IF	Citations
1	Aquatic surface respiration improves survival during hypoxia in zebrafish (Danio rerio) lacking hypoxia-inducible factor 1-Î±. Proceedings of the Royal Society B: Biological Sciences, 2022, 289, 20211863.	1.2	2
2	A new model for sodium uptake in the zebrafish gill. Acta Physiologica, 2022, 234, e13787.	1.8	4
3	Physiology and aquaculture: A review of ion and acidâ€base regulation by the gills of fishes. Fish and Fisheries, 2022, 23, 874-898.	2.7	11
4	Regulation of heart rate following genetic deletion of the ÃŸ1 adrenergic receptor in larval zebrafish. Acta Physiologica, 2022, 235, .	1.8	8
5	Respiratory responses to external ammonia in zebrafish (Danio rerio). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2021, 251, 110822.	0.8	6
6	Disruption of tph1 genes demonstrates the importance of serotonin in regulating ventilation in larval zebrafish (Danio rerio). Respiratory Physiology and Neurobiology, 2021, 285, 103594.	0.7	11
7	Use of a carbonic anhydrase Ca17a knockout to investigate mechanisms of ion uptake in zebrafish (<i>Danio rerio</i>). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2021, 320, R55-R68.	0.9	6
8	Does blood flow limit acute hypoxia performance in larval zebrafish (Danio rerio)?. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2021, 191, 469-478.	0.7	3
9	Does hypoxia-inducible factor 1Î± play a role in regulating cutaneous oxygen flux in larval zebrafish (Danio rerio)?. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2021, 191, 645-655.	0.7	2
10	Hifâ€1Î± is not required for the development of cardiac adrenergic control in zebrafish (<i>Danio) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 623-631.	0.9	3
11	The effects of dissolved organic carbon on the reflex ventilatory responses of the neotropical teleost (Colossoma macropomum) to hypoxia or hypercapnia. Chemosphere, 2021, 277, 130314.	4.2	2
12	The evolutionary and physiological significance of the Hif pathway in teleost fishes. Journal of Experimental Biology, 2021, 224, .	0.8	16
13	Hypoxia inducible factor 1-Î± is minimally involved in determining the time domains of the hypoxic ventilatory response in adult zebrafish (Danio rerio). Respiratory Physiology and Neurobiology, 2021, 294, 103774.	0.7	5
14	Reassessing the contribution of the Na+/H+ exchanger Nhe3b to Na+ uptake in zebrafish (<i>Danio) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.8	8
15	Breathing with fins: do the pectoral fins of larval fishes play a respiratory role?. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2020, 318, R89-R97.	0.9	21
16	Expression of ion transport genes in ionocytes isolated from larval zebrafish (<i>Danio rerio</i>) exposed to acidic or Na⁺-deficient water. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2020, 319, R412-R427.	0.9	4
17	Respirometry and cutaneous oxygen flux measurements reveal a negligible aerobic cost of ion regulation in larval zebrafish (Danio rerio). Journal of Experimental Biology, 2020, 223, .	0.8	7
18	The role of TASK-2 channels in CO₂sensing in zebrafish (<i>Danio rerio</i>). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2020, 319, R329-R342.	0.9	6

#	ARTICLE	IF	CITATIONS
19	Hypoxia inducible factor-1 <i>Î±</i> knockout does not impair acute thermal tolerance or heat hardening in zebrafish. Biology Letters, 2020, 16, 20200292.	1.0	13
20	Loss of hypoxia-inducible factor 1Î± affects hypoxia tolerance in larval and adult zebrafish (<i>Danio) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.2	18
21	Relationships between the peak hypoxic ventilatory response and critical O2 tension in larval and adult zebrafish (<i>Danio rerio</i>). Journal of Experimental Biology, 2020, 223, .	0.8	12
22	Neuroendocrine control of breathing in fish. Molecular and Cellular Endocrinology, 2020, 509, 110800.	1.6	12
23	The Rhesus glycoprotein Rhcgb is expendable for ammonia excretion and Na+ uptake in zebrafish (Danio rerio). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2020, 247, 110722.	0.8	8
24	Hif-1Î± paralogs play a role in the hypoxic ventilatory response of larval and adult zebrafish (<i>Danio) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.8	16
25	Use of gene knockout to examine serotonergic control of ion uptake in zebrafish reveals the importance of controlling for genetic background: A cautionary tale. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2019, 238, 110558.	0.8	4
26	Role of internal convection in respiratory gas transfer and aerobic metabolism in larval zebrafish (<i>Danio rerio</i>). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2019, 316, R255-R264.	0.9	17
27	Loss-of-function approaches in comparative physiology: is there a future for knockdown experiments in the era of genome editing?. Journal of Experimental Biology, 2019, 222, .	0.8	47
28	Evaluating the physiological significance of hypoxic hyperventilation in larval zebrafish (<i>Danio) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.8	15
29	Conflict and Compromise: Using Reversible Remodeling to Manage Competing Physiological Demands at the Fish Gill. Physiology, 2018, 33, 412-422.	1.6	32
30	Assessing the role of the acid-sensing ion channel ASIC4b in sodium uptake by larval zebrafish. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2018, 226, 1-10.	0.8	15
31	Air breathing and aquatic gas exchange during hypoxia in armoured catfish. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2017, 187, 117-133.	0.7	27
32	A role for sodium-chloride cotransporters in the rapid regulation of ion uptake following acute environmental acidosis: new insights from the zebrafish model. American Journal of Physiology - Cell Physiology, 2016, 311, C931-C941.	2.1	17
33	Role of endogenous carbon monoxide in the control of breathing in zebrafish (Danio rerio). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 311, R1262-R1270.	0.9	13
34	Inhibition of calcium uptake during hypoxia in developing zebrafish, Danio rerio, is mediated by hypoxia-inducible factor. Journal of Experimental Biology, 2016, 219, 3988-3995.	0.8	5
35	Neuroendocrine control of ionic balance in zebrafish. General and Comparative Endocrinology, 2016, 234, 40-46.	0.8	22
36	An emerging role for gasotransmitters in the control of breathing and ionic regulation in fish. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2016, 186, 145-159.	0.7	19

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37	Evidence for a role of heme oxygenase-1 in the control of cardiac function in zebrafish (<i>Danio) Tj ETQq1 1 0.784314 rgBT /Overlock 1	0.8	13
38	Sensing and surviving hypoxia in vertebrates. Annals of the New York Academy of Sciences, 2016, 1365, 43-58.	1.8	68
39	The water channel aquaporin-1a1 facilitates movement of CO2 and ammonia in zebrafish (<i>Danio) Tj ETQq1 1 0.784314 rgBT /Overlo	0.8	29
40	A Time Differential Staining Technique Coupled with Full Bilateral Gill Denervation to Study Ionocytes in Fish. Journal of Visualized Experiments, 2015, , .	0.2	1
41	Hydrogen sulfide promotes calcium uptake in larval zebrafish. American Journal of Physiology - Cell Physiology, 2015, 309, C60-C69.	2.1	12
42	An Essential Role for Parathyroid Hormone in Gill Formation and Differentiation of Ion-Transporting Cells in Developing Zebrafish. Endocrinology, 2015, 156, 2384-2394.	1.4	24
43	A role for nitric oxide in the control of breathing in zebrafish (<i>Danio rerio</i>). Journal of Experimental Biology, 2015, 218, 3746-53.	0.8	43
44	The physiology of fish at low pH: the zebrafish as a model system. Journal of Experimental Biology, 2014, 217, 651-662.	0.8	101
45	Marking the â€˜retirementâ€™ of Chris Wood from McMaster University. Journal of Experimental Biology, 2014, 217, 637-638.	0.8	0
46	The role of hydrogen sulphide in the control of breathing in hypoxic zebrafish (<i>Danio rerio</i>). Journal of Physiology, 2014, 592, 3075-3088.	1.3	51
47	Cardiac responses to hypercapnia in larval zebrafish (Danio rerio): The links between CO2 chemoreception, catecholamines and carbonic anhydrase. Journal of Experimental Biology, 2014, 217, 3569-78.	0.8	30
48	Heme oxygenase-1 (HO-1) mediated respiratory responses to hypoxia in the goldfish, Carassius auratus. Respiratory Physiology and Neurobiology, 2014, 199, 1-8.	0.7	26
49	The interactive effects of exercise and gill remodeling in goldfish (Carassius auratus). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2012, 182, 935-945.	0.7	21
50	Mechanisms and regulation of Na+ uptake by freshwater fish. Respiratory Physiology and Neurobiology, 2012, 184, 249-256.	0.7	59
51	Mechanisms and consequences of carbon dioxide sensing in fish. Respiratory Physiology and Neurobiology, 2012, 184, 309-315.	0.7	51
52	The autonomic nervous system and chromaffin tissue: Neuroendocrine regulation of catecholamine secretion in non-mammalian vertebrates. Autonomic Neuroscience: Basic and Clinical, 2011, 165, 54-66.	1.4	58
53	Strategies for maintaining Na+ balance in zebrafish (Danio rerio) during prolonged exposure to acidic water. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2011, 160, 52-62.	0.8	73
54	Interactive effects of development and hypoxia on catecholamine synthesis and cardiac function in zebrafish (Danio rerio). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2011, 181, 527-38.	0.7	14

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55	Effects of chronic dietary salt loading on the renin angiotensin and adrenergic systems of rainbow trout (<i>Oncorhynchus mykiss</i>). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R811-R821.	0.9	4
56	Ammonia excretion via Rhcg1 facilitates Na⁺uptake in larval zebrafish, Danio rerio, in acidic water. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R1517-R1528.	0.9	86
57	Acidâ€“base regulation in the plainfin midshipman (Porichthys notatus): an aglomerular marine teleost. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2010, 180, 1213-1225.	0.7	34
58	Do zebrafish Rh proteins act as dual ammoniaâ€“CO₂ channels?. Journal of Experimental Zoology, 2010, 313A, 618-621.	1.2	53
59	The consequences of reversible gill remodelling on ammonia excretion in goldfish (Carassius) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	0.8	22
60	Ionic and acidâ€“base regulation. Fish Physiology, 2010, 29, 311-344.	0.2	39
61	Hydrogen sulfide stimulates catecholamine secretion in rainbow trout (<i>Oncorhynchus mykiss</i>). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 296, R133-R140.	0.9	28
62	Hydrogen Sulfide as an Oxygen Sensor in Trout Chemoreceptors. FASEB Journal, 2008, 22, 1224.1.	0.2	0
63	Fooling a freshwater fish: how dietary salt transforms the rainbow trout gill into a seawater gill phenotype. Journal of Experimental Biology, 2006, 209, 4591-4596.	0.8	36
64	Sensing and transfer of respiratory gases at the fish gill. The Journal of Experimental Zoology, 2002, 293, 249-263.	1.4	126
65	Cardiorespiratory adjustments during hypercarbia in rainbow trout<i>Oncorhynchus mykiss</i>are initiated by external CO2receptors on the first gill arch. Journal of Experimental Biology, 2002, 205, 3357-3365.	0.8	60
66	Cardiorespiratory adjustments during hypercarbia in rainbow trout Oncorhynchus mykiss are initiated by external CO(2) receptors on the first gill arch. Journal of Experimental Biology, 2002, 205, 3357-65.	0.8	43
67	The role of angiotensin II in regulating catecholamine secretion during hypoxia in rainbow trout<i>Oncorhynchus mykiss</i>. Journal of Experimental Biology, 2001, 204, 4169-4176.	0.8	10
68	Cardio-respiratory effects of chloramine-T exposure in rainbow trout. Experimental Biology Online, 1999, 4, 1-59.	1.0	10
69	Branchial Ionic Flux Responses in Rainbow Trout to Chloramine-T after Acclimation to Different Levels of Water Hardness. Journal of Aquatic Animal Health, 1997, 9, 196-202.	0.6	3
70	THE CHLORIDE CELL:Structure and Function in the Gills of Freshwater Fishes. Annual Review of Physiology, 1997, 59, 325-347.	5.6	485
71	The effects of soft-water acclimation on gill structure in the rainbow trout Oncorhynchus mykiss. Cell and Tissue Research, 1996, 285, 75-82.	1.5	74
72	The effects of experimental anaemia on CO2 excretionin vitro in rainbow trout,Oncorhynchus mykiss. Fish Physiology and Biochemistry, 1996, 15, 83-94.	0.9	19

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73	Effects of metabolic acid-base disturbances and elevated catecholamines on the acid-base disequilibrium in the arterial blood of rainbow trout. The Journal of Experimental Zoology, 1996, 274, 281-290.	1.4	14
74	The effects of repeated physical stress or fasting on catccholamine storage and release in the rainbow trout, Oncorhynchus mykiss. Journal of Fish Biology, 1994, 45, 365-378.	0.7	18
75	Control and consequences of adrenergic activation of red blood cell Na+/H+ exchange on blood oxygen and carbon dioxide transport in fish. The Journal of Experimental Zoology, 1992, 263, 160-175.	1.4	104
76	The Role of Circulating Catecholamines in the Ventilatory and Hypertensive Responses to Hypoxia in the Atlantic Cod (<i>Gadus morhua</i>). Physiological Zoology, 1991, 64, 1087-1109.	1.5	38
77	Effects of cortisol on gill chloride cell morphology and ionic uptake in the freshwater trout,Salmo gairdneri. Cell and Tissue Research, 1990, 259, 429-442.	1.5	204
78	Control and coordination of gas transfer in fishes. Canadian Journal of Zoology, 1989, 67, 2961-2970.	0.4	160