Alex M Zimmer

List of Publications by Year
in descending order

32 papers	562 citations	687363 13 h-index	677142 22 g-index
33 all docs	33 docs citations	33 times ranked	442 citing authors

#	Article	IF	Citations
1	Physiology and aquaculture: A review of ion and acidâ€base regulation by the gills of fishes. Fish and Fisheries, 2022, 23, 874-898.	5.3	11
2	Use of a carbonic anhydrase Ca17a knockout to investigate mechanisms of ion uptake in zebrafish (Danio rerio). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2021, 320, R55-R68.	1.8	6
3	Chemical niches and ionoregulatory traits: applying ionoregulatory physiology to the conservation management of freshwater fishes. , 2021, 9, coab066.		3
4	The skin of adult rainbow trout is not a significant site of ammonia clearance from the blood. Journal of Fish Biology, 2021, 99, 1529-1534.	1.6	3
5	Reductionist approaches to the study of ionoregulation in fishes. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2021, 255, 110597.	1.6	1
6	Reassessing the contribution of the Na+/H+ exchanger Nhe3b to Na+ uptake in zebrafish (Danio) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.7	8
7	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.	1.8	21
8	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, .	1.7	7
9	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.	1.8	8
10	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.	1.8	4
11	Role of internal convection in respiratory gas transfer and aerobic metabolism in larval zebrafish (Danio rerio). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2019, 316, R255-R264.	1.8	17
12	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, .	1.7	47
13	Evaluating the physiological significance of hypoxic hyperventilation in larval zebrafish (Danio) Tj ETQq1 1 0.784314 rgBT /Overloc	1.7	15
14	Mechanisms of Ca2+ uptake in freshwater and seawater-acclimated killifish, Fundulus heteroclitus, and their response to acute salinity transfer. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2019, 189, 47-60.	1.5	17
15	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.	1.8	15
16	Different mechanisms of Na+ uptake and ammonia excretion by the gill and yolk sac epithelium of early life stage rainbow trout. Journal of Experimental Biology, 2017, 220, 775-786.	1.7	16
17	The Effects of Acute Copper and Ammonia Challenges on Ammonia and Urea Excretion by the Blue Crab Callinectes sapidus. Archives of Environmental Contamination and Toxicology, 2017, 72, 461-470.	4.1	6
18	Ammonia and urea handling by early life stages of fishes. Journal of Experimental Biology, 2017, 220, 3843-3855.	1.7	52

#	Article	IF	Citations
19	Acute exposure to high environmental ammonia (HEA) triggers the emersion response in the green shore crab. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2017, 204, 65-75.	1.8	13
20	It's all in the gills: Evaluation of O2 uptake in Pacific hagfish refutes a major respiratory role for the skin. Journal of Experimental Biology, 2016, 219, 2814-2818.	1.7	16
21	Physiological and molecular ontogeny of branchial and extra-branchial urea excretion in posthatch rainbow trout (Oncorhynchus mykiss). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 310, R305-R312.	1.8	4
22	Intestinal ammonia transport in freshwater and seawater acclimated rainbow trout (Oncorhynchus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 A, Molecular & Integrative Physiology, 2015, 183, 45-56.	1.8	6
23	Ammonia first? The transition from cutaneous to branchial ammonia excretion in developing rainbow trout (Oncorhynchus mykiss) is not altered by exposure to chronically high NaCl. Journal of Experimental Biology, 2015, 218, 1467-70.	1.7	8
24	Acute exposure to waterborne copper inhibits both the excretion and uptake of ammonia in freshwater rainbow trout (Oncorhynchus mykiss). Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2015, 168, 48-54.	2.6	10
25	Exposure to Acute Severe Hypoxia Leads to Increased Urea Loss and Disruptions in Acid-Base and Ionoregulatory Balance in Dogfish Sharks (Squalus acanthias). Physiological and Biochemical Zoology, 2014, 87, 623-639.	1.5	10
26	What is the primary function of the early teleost gill? Evidence for Na⁺/NH⁺₄exchange in developing rainbow trout (Oncorhynchus mykiss). Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20141422.	2.6	21
27	Exposure to waterborne Cu inhibits cutaneous Na+ uptake in post-hatch larval rainbow trout (Oncorhynchus mykiss). Aquatic Toxicology, 2014, 150, 151-158.	4.0	11
28	Ammonia transport across the skin of adult rainbow trout (Oncorhynchus mykiss) exposed to high environmental ammonia (HEA). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2014, 184, 77-90.	1.5	28
29	An in vitro analysis of intestinal ammonia handling in fasted and fed freshwater rainbow trout (Oncorhynchus mykiss). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2014, 184, 91-105.	1.5	18
30	Waterborne copper exposure inhibits ammonia excretion and branchial carbonic anhydrase activity in euryhaline guppies acclimated to both fresh water and sea water. Aquatic Toxicology, 2012, 122-123, 172-180.	4.0	50
31	Branchial and extra-branchial ammonia excretion in goldfish (Carassius auratus) following thermally induced gill remodeling. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2012, 162, 185-192.	1.8	24
32	Physiological and molecular analysis of the interactive effects of feeding and high environmental ammonia on branchial ammonia excretion and Na+ uptake in freshwater rainbow trout. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2010, 180, 1191-1204.	1.5	77