

Alex M Zimmer

List of Publications by Year in descending order

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Version: 2024-02-01

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	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. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2010, 180, 1191-1204.	1.5	77
2	Ammonia and urea handling by early life stages of fishes. <i>Journal of Experimental Biology</i> , 2017, 220, 3843-3855.	1.7	52
3	Waterborne copper exposure inhibits ammonia excretion and branchial carbonic anhydrase activity in euryhaline guppies acclimated to both fresh water and sea water. <i>Aquatic Toxicology</i> , 2012, 122-123, 172-180.	4.0	50
4	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, .	1.7	47
5	Ammonia transport across the skin of adult rainbow trout (<i>Oncorhynchus mykiss</i>) exposed to high environmental ammonia (HEA). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2014, 184, 77-90.	1.5	28
6	Branchial and extra-branchial ammonia excretion in goldfish (<i>Carassius auratus</i>) following thermally induced gill remodeling. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2012, 162, 185-192.	1.8	24
7	What is the primary function of the early teleost gill? Evidence for Na ⁺ /NH ₄ ⁺ exchange in developing rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20141422.	2.6	21
8	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.	1.8	21
9	An in vitro analysis of intestinal ammonia handling in fasted and fed freshwater rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2014, 184, 91-105.	1.5	18
10	Role of internal convection in respiratory gas transfer and aerobic metabolism in larval zebrafish (<i>Danio rerio</i>). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019, 316, R255-R264.	1.8	17
11	Mechanisms of Ca ²⁺ uptake in freshwater and seawater-acclimated killifish, <i>Fundulus heteroclitus</i> , and their response to acute salinity transfer. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2019, 189, 47-60.	1.5	17
12	Different mechanisms of Na ⁺ uptake and ammonia excretion by the gill and yolk sac epithelium of early life stage rainbow trout. <i>Journal of Experimental Biology</i> , 2017, 220, 775-786.	1.7	16
13	It's all in the gills: Evaluation of O ₂ uptake in Pacific hagfish refutes a major respiratory role for the skin. <i>Journal of Experimental Biology</i> , 2016, 219, 2814-2818.	1.7	16
14	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.	1.8	15
15	Evaluating the physiological significance of hypoxic hyperventilation in larval zebrafish (<i>Danio rerio</i>). <i>Journal of Experimental Biology</i> , 2017, 220, 1785-1794.	1.7	15
16	Acute exposure to high environmental ammonia (HEA) triggers the emersion response in the green shore crab. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2017, 204, 65-75.	1.8	13
17	Exposure to waterborne Cu inhibits cutaneous Na ⁺ uptake in post-hatch larval rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Aquatic Toxicology</i> , 2014, 150, 151-158.	4.0	11
18	Physiology and aquaculture: A review of ion and acid-base regulation by the gills of fishes. <i>Fish and Fisheries</i> , 2022, 23, 874-898.	5.3	11

#	ARTICLE	IF	CITATIONS
19	Exposure to Acute Severe Hypoxia Leads to Increased Urea Loss and Disruptions in Acid-Base and Ionoregulatory Balance in Dogfish Sharks (<i>Squalus acanthias</i>). <i>Physiological and Biochemical Zoology</i> , 2014, 87, 623-639.	1.5	10
20	Acute exposure to waterborne copper inhibits both the excretion and uptake of ammonia in freshwater rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2015, 168, 48-54.	2.6	10
21	Ammonia first? The transition from cutaneous to branchial ammonia excretion in developing rainbow trout (<i>Oncorhynchus mykiss</i>) is not altered by exposure to chronically high NaCl. <i>Journal of Experimental Biology</i> , 2015, 218, 1467-70.	1.7	8
22	Reassessing the contribution of the Na ⁺ /H ⁺ exchanger Nhe3b to Na ⁺ uptake in zebrafish (<i>Danio</i>)	1.7	8
23	The Rhesus glycoprotein Rhcgb is expendable for ammonia excretion and Na ⁺ uptake in zebrafish (<i>Danio rerio</i>). <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2020, 247, 110722.	1.8	8
24	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> , 2020, 223, .	1.7	7
25	Intestinal ammonia transport in freshwater and seawater acclimated rainbow trout (<i>Oncorhynchus</i>)	1.8	6
26	The Effects of Acute Copper and Ammonia Challenges on Ammonia and Urea Excretion by the Blue Crab <i>Callinectes sapidus</i> . <i>Archives of Environmental Contamination and Toxicology</i> , 2017, 72, 461-470.	4.1	6
27	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> , 2021, 320, R55-R68.	1.8	6
28	Physiological and molecular ontogeny of branchial and extra-branchial urea excretion in posthatch rainbow trout (<i>Oncorhynchus mykiss</i>). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 310, R305-R312.	1.8	4
29	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.	1.8	4
30	Chemical niches and ionoregulatory traits: applying ionoregulatory physiology to the conservation management of freshwater fishes. , 2021, 9, coab066.		3
31	The skin of adult rainbow trout is not a significant site of ammonia clearance from the blood. <i>Journal of Fish Biology</i> , 2021, 99, 1529-1534.	1.6	3
32	Reductionist approaches to the study of ionoregulation in fishes. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2021, 255, 110597.	1.6	1