

Raymond W M Kwong

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

1,262
citations

304368

22
h-index

414034

32
g-index

54
all docs

54
docs citations

54
times ranked

1295
citing authors

#	ARTICLE	IF	CITATIONS
1	The physiology of fish at low pH: the zebrafish as a model system. <i>Journal of Experimental Biology</i> , 2014, 217, 651-662.	0.8	101
2	The uptake, distribution and elimination of paralytic shellfish toxins in mussels and fish exposed to toxic dinoflagellates. <i>Aquatic Toxicology</i> , 2006, 80, 82-91.	1.9	73
3	The role of hydrogen sulphide in the control of breathing in hypoxic zebrafish (<i>Danio rerio</i>). <i>Journal of Physiology</i> , 2014, 592, 3075-3088.	1.3	51
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, .	0.8	47
5	Influence of Microplastics on the Mobility, Bioavailability, and Toxicity of Heavy Metals: A Review. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2021, 107, 710-721.	1.3	47
6	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.	0.8	43
7	Straw return enhances the risks of metals in soil?. <i>Ecotoxicology and Environmental Safety</i> , 2021, 207, 111201.	2.9	42
8	Algal Organic Matter Drives Methanogen-Mediated Methylmercury Production in Water from Eutrophic Shallow Lakes. <i>Environmental Science & Technology</i> , 2021, 55, 10811-10820.	4.6	40
9	Effects of dietary cadmium exposure on tissue-specific cadmium accumulation, iron status and expression of iron-handling and stress-inducible genes in rainbow trout: Influence of elevated dietary iron. <i>Aquatic Toxicology</i> , 2011, 102, 1-9.	1.9	38
10	Cortisol regulates epithelial permeability and sodium losses in zebrafish exposed to acidic water. <i>Journal of Endocrinology</i> , 2013, 217, 253-264.	1.2	37
11	The tight junction protein claudin-b regulates epithelial permeability and sodium handling in larval zebrafish, <i>Danio rerio</i> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 304, R504-R513.	0.9	37
12	Uptake, elimination, and biotransformation of aqueous and dietary DDT in marine fish. <i>Environmental Toxicology and Chemistry</i> , 2008, 27, 2053-2063.	2.2	36
13	A comprehensive review on the neuropathophysiology of selenium. <i>Science of the Total Environment</i> , 2021, 767, 144329.	3.9	33
14	The interactions of iron with other divalent metals in the intestinal tract of a freshwater teleost, rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2009, 150, 442-449.	1.3	30
15	A comprehensive review of the neurobehavioral effects of bisphenol S and the mechanisms of action: New insights from in vitro and in vivo models. <i>Environment International</i> , 2020, 145, 106078.	4.8	30
16	The water channel aquaporin-1a1 facilitates movement of CO ₂ and ammonia in zebrafish (<i>Danio rerio</i>). <i>Journal of Experimental Biology</i> , 2010, 223, 106-114.	0.8	29
17	Involvement of the calcium-sensing receptor in calcium homeostasis in larval zebrafish exposed to low environmental calcium. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 306, R211-R221.	0.9	28
18	Evidence for a role of tight junctions in regulating sodium permeability in zebrafish (<i>Danio rerio</i>) acclimated to ion-poor water. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2013, 183, 203-213.	0.7	26

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19	Understanding the effects of sulfur input on mercury methylation in rice paddy soils. <i>Science of the Total Environment</i> , 2021, 778, 146325.	3.9	26
20	An Essential Role for Parathyroid Hormone in Gill Formation and Differentiation of Ion-Transporting Cells in Developing Zebrafish. <i>Endocrinology</i> , 2015, 156, 2384-2394.	1.4	24
21	How do humans recognize and face challenges of microplastic pollution in marine environments? A bibliometric analysis. <i>Environmental Pollution</i> , 2021, 280, 116959.	3.7	24
22	Transport of selenium across the plasma membrane of primary hepatocytes and enterocytes of rainbow trout. <i>Journal of Experimental Biology</i> , 2012, 215, 1491-1501.	0.8	23
23	Biokinetics and biotransformation of DDTs in the marine green mussels <i>Perna viridis</i> . <i>Aquatic Toxicology</i> , 2009, 93, 196-204.	1.9	22
24	Molecular evidence and physiological characterization of iron absorption in isolated enterocytes of rainbow trout (<i>Oncorhynchus mykiss</i>): Implications for dietary cadmium and lead absorption. <i>Aquatic Toxicology</i> , 2010, 99, 343-350.	1.9	22
25	Neuroendocrine control of ionic balance in zebrafish. <i>General and Comparative Endocrinology</i> , 2016, 234, 40-46.	0.8	22
26	An in vitro examination of intestinal iron absorption in a freshwater teleost, rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2008, 178, 963-975.	0.7	20
27	The Role of Aquaporin and Tight Junction Proteins in the Regulation of Water Movement in Larval Zebrafish (<i>Danio rerio</i>). <i>PLoS ONE</i> , 2013, 8, e70764.	1.1	19
28	A role for transcription factor glial cell missing 2 in Ca ²⁺ homeostasis in zebrafish, <i>Danio rerio</i> . <i>Pflugers Archiv European Journal of Physiology</i> , 2015, 467, 753-765.	1.3	19
29	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, 145-159.	0.7	19
30	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.	2.1	17
31	Zebrafish as a Model System for Investigating the Compensatory Regulation of Ionic Balance during Metabolic Acidosis. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1087.	1.8	17
32	Regulation of metal homeostasis and zinc transporters in early-life stage zebrafish following sublethal waterborne zinc exposure. <i>Aquatic Toxicology</i> , 2020, 225, 105524.	1.9	17
33	Biokinetics of paralytic shellfish toxins in the green-lipped mussel, <i>Perna viridis</i> . <i>Marine Pollution Bulletin</i> , 2007, 54, 1068-1071.	2.3	16
34	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.	0.8	15
35	Effects of elevated dietary iron on the gastrointestinal expression of Nramp genes and iron homeostasis in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Fish Physiology and Biochemistry</i> , 2013, 39, 363-372.	0.9	14
36	Hydrogen sulfide promotes calcium uptake in larval zebrafish. <i>American Journal of Physiology - Cell Physiology</i> , 2015, 309, C60-C69.	2.1	12

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37	The neurophysiological effects of iron in early life stages of zebrafish. <i>Environmental Pollution</i> , 2020, 267, 115625.	3.7	12
38	Hydrogen sulfide inhibits Na ⁺ uptake in larval zebrafish, <i>Danio rerio</i> . <i>Pflugers Archiv European Journal of Physiology</i> , 2015, 467, 651-664.	1.3	11
39	Early developmental exposure to bisphenol A and bisphenol S disrupts socio-cognitive function, isotocin equilibrium, and excitation-inhibition balance in developing zebrafish. <i>NeuroToxicology</i> , 2022, 88, 144-154.	1.4	11
40	Nitrogenous Waste Handling by Larval Zebrafish (<i>Danio rerio</i>) in Alkaline Water. <i>Physiological and Biochemical Zoology</i> , 2015, 88, 137-145.	0.6	10
41	Influence of dietary iron exposure on trace metal homeostasis and expression of metal transporters during development in zebrafish. <i>Environmental Pollution</i> , 2020, 261, 114159.	3.7	10
42	Functional significance and physiological regulation of essential trace metals in fish. <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	10
43	The role of cAMP-mediated intracellular signaling in regulating Na ⁺ uptake in zebrafish larvae. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 306, R51-R60.	0.9	9
44	The sensory-motor responses to environmental acidosis in larval zebrafish: Influences of neurotransmitter and water chemistry. <i>Chemosphere</i> , 2019, 235, 383-390.	4.2	8
45	Reassessing the contribution of the Na ⁺ /H ⁺ exchanger Nhe3b to Na ⁺ uptake in zebrafish (<i>Danio rerio</i>). <i>Journal of Experimental Biology</i> , 2021, 224, 10822.	0.8	8
46	A critical insight into the development, regulation and future prospects of biofuels in Canada. <i>Bioengineered</i> , 2021, 12, 9847-9859.	1.4	8
47	Using zebrafish as a model to assess the individual and combined effects of sub-lethal waterborne and dietary zinc exposure during development. <i>Environmental Pollution</i> , 2021, 284, 117377.	3.7	7
48	Cadmium exposure reduces the density of a specific ionocyte subtype in developing zebrafish. <i>Chemosphere</i> , 2020, 244, 125535.	4.2	6
49	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.	0.8	6
50	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.	0.9	6
51	Cadmium transport in isolated enterocytes of freshwater rainbow trout: Interactions with zinc and iron, effects of complexation with cysteine, and an ATPase-coupled efflux. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2012, 155, 238-246.	1.3	5
52	Inhibition of calcium uptake during hypoxia in developing zebrafish, <i>Danio rerio</i> , is mediated by hypoxia-inducible factor. <i>Journal of Experimental Biology</i> , 2016, 219, 3988-3995.	0.8	5
53	Toxicological assessment of cadmium-containing quantum dots in developing zebrafish: Physiological performance and neurobehavioral responses. <i>Aquatic Toxicology</i> , 2022, 247, 106157.	1.9	5