Martin Grosell

List of Publications by Year
in descending order

182 papers	8,031 citations	47006 47 h-index	64796 79 g-index
187 all docs	187 docs citations	187 times ranked	4861 citing authors

#	Article	IF	Citations
1	Deepwater Horizon crude oil impacts the developing hearts of large predatory pelagic fish. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1510-8.	7.1	359
2	Physiological impacts of elevated carbon dioxide and ocean acidification on fish. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 307, R1061-R1084.	1.8	320
3	Copper uptake across rainbow trout gills. Journal of Experimental Biology, 2002, 205, 1179-1188.	1.7	266
4	Physiology is pivotal for interactions between salinity and acute copper toxicity to fish and invertebrates. Aquatic Toxicology, 2007, 84, 162-172.	4.0	249
5	Intestinal anion exchange in marine fish osmoregulation. Journal of Experimental Biology, 2006, 209, 2813-2827.	1.7	224
6	Acute Embryonic or Juvenile Exposure to Deepwater Horizon Crude Oil Impairs the Swimming Performance of Mahi-Mahi (Coryphaena hippurus). Environmental Science & Technology, 2014, 48, 7053-7061.	10.0	200
7	Copper uptake across rainbow trout gills: mechanisms of apical entry. Journal of Experimental Biology, 2002, 205, 1179-88.	1.7	198
8	Intestinal bicarbonate secretion by marine teleost fishâ€”why and how?. Biochimica Et Biophysica Acta - Biomembranes, 2002, 1566, 182-193.	2.6	185
9	Osmoregulation and Excretion. , 2014, 4, 405-573.		163
10	The effects of weathering and chemical dispersion on Deepwater Horizon crude oil toxicity to mahi-mahi (Coryphaena hippurus) early life stages. Science of the Total Environment, 2016, 543, 644-651.	8.0	159
11	Impacts of ocean acidification on respiratory gas exchange and acidâ€“base balance in a marine teleost, Opsanus beta. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2012, 182, 921-934.	1.5	157
12	Time- and Oil-Dependent Transcriptomic and Physiological Responses to Deepwater Horizon Oil in Mahi-Mahi (Coryphaena hippurus) Embryos and Larvae. Environmental Science & Technology, 2016, 50, 7842-7851.	10.0	123
13	High rates of HCO3â€“ secretion and Clâ€“ absorption against adverse gradients in the marine teleost intestine: the involvement of an electrogenic anion exchanger and H+-pump metabolon?. Journal of Experimental Biology, 2009, 212, 1684-1696.	1.7	121
14	Intestinal bicarbonate secretion in marine teleost fishâ€”source of bicarbonate, pH sensitivity, and consequences for whole animal acidâ€“base and calcium homeostasis. Biochimica Et Biophysica Acta - Biomembranes, 2003, 1618, 163-174.	2.6	118
15	Copper toxicity across salinities from freshwater to seawater in the euryhaline fish Fundulus heteroclitus: Is copper an ionoregulatory toxicant in high salinities?. Aquatic Toxicology, 2006, 80, 131-139.	4.0	110
16	Acute Silver Toxicity in Aquatic Animals Is a Function of Sodium Uptake Rate. Environmental Science & Technology, 2002, 36, 1763-1766.	10.0	108
17	The Gulf of Mexico ecosystem, six years after the Macondo oil well blowout. Deep-Sea Research Part II: Topical Studies in Oceanography, 2016, 129, 4-19.	1.4	99
18	Toxicity of Silver, Zinc, Copper, and Nickel to the Copepod Acartia tonsa Exposed via a Phytoplankton Diet. Environmental Science & Technology, 2006, 40, 2063-2068.	10.0	95

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19	Corresponding morphological and molecular indicators of crude oil toxicity to the developing hearts of mahi mahi. Scientific Reports, 2015, 5, 17326.	3.3	93
20	The involvement of H+-ATPase and carbonic anhydrase in intestinal HCO3â€“ secretion in seawater-acclimated rainbow trout. Journal of Experimental Biology, 2009, 212, 1940-1948.	1.7	92
21	Bioavailability of silver and its relationship to ionoregulation and silver speciation across a range of salinities in the gulf toadfish (Opsanus beta). Aquatic Toxicology, 2004, 70, 137-157.	4.0	90
22	Effects of salinity on intestinal bicarbonate secretion and compensatory regulation of acidâ€“base balance inOpsanus beta. Journal of Experimental Biology, 2008, 211, 2327-2335.	1.7	87
23	Copper metabolism in actively growing rainbow trout (Oncorhynchus mykiss): interactions between dietary and waterborne copper uptake. Journal of Experimental Biology, 2002, 205, 279-90.	1.7	87
24	Intestinal anion exchange in marine teleosts is involved in osmoregulation and contributes to the oceanic inorganic carbon cycle. Acta Physiologica, 2011, 202, 421-434.	3.8	85
25	Feeding and osmoregulation: dual function of the marine teleost intestine. Journal of Experimental Biology, 2006, 209, 2939-2951.	1.7	83
26	Impacts of Deepwater Horizon crude oil exposure on adult mahiâ€mahi (Coryphaena) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	4.3	83
27	Effects of prolonged copper exposure in the marine gulf toadfish (Opsanus beta) II: copper accumulation, drinking rate and Na+/K+-ATPase activity in osmoregulatory tissues. Aquatic Toxicology, 2004, 68, 263-275.	4.0	81
28	CHRONIC TOXICITY OF LEAD TO THREE FRESHWATER INVERTEBRATESâ€" BRACHIONUS CALYCIFLORUS, CHIRONOMUS TENTANS, AND LYMNAEA STAGNALIS. Environmental Toxicology and Chemistry, 2006, 25, 97.	4.3	81
29	The role of the gastrointestinal tract in salt and water balance. Fish Physiology, 2010, 30, 135-164.	0.8	77
30	Intestinal carbonic anhydrase, bicarbonate, and proton carriers play a role in the acclimation of rainbow trout to seawater. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 293, R2099-R2111.	1.8	72
31	Intestinal anion exchange in teleost water balance. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 148, 14-22.	1.8	72
32	Maintaining osmotic balance with an aglomerular kidney. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2006, 143, 447-458.	1.8	71
33	Effects of prolonged copper exposure in the marine gulf toadfish (Opsanus beta). Aquatic Toxicology, 2004, 68, 249-262.	4.0	70
34	Effects of crude oil on in situ cardiac function in young adult mahiâ€"mahi (Coryphaena hippurus). Aquatic Toxicology, 2016, 180, 274-281.	4.0	68
35	Effects of Deepwater Horizon crude oil exposure, temperature and developmental stage on oxygen consumption of embryonic and larval mahi-mahi (Coryphaena hippurus). Aquatic Toxicology, 2016, 181, 113-123.	4.0	67
36	Acidâ€"base responses to feeding and intestinal Clâ€" uptake in freshwater- and seawater-acclimated killifish,Fundulus heteroclitus, an agastric euryhaline teleost. Journal of Experimental Biology, 2010, 213, 2681-2692.	1.7	65

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37	Use of Multiple Linear Regression Models for Setting Water Quality Criteria for Copper: A Complementary Approach to the Biotic Ligand Model. Environmental Science & Technology, 2017, 51, 5182-5192.	10.0	64
38	Copper metabolism and gut morphology in rainbow trout (Oncorhynchus mykiss) during chronic sublethal dietary copper eÃ—posure. Canadian Journal of Fisheries and Aquatic Sciences, 2001, 58, 293-305.	1.4	64
39	Sensitivity of the spiny dogfish (Squalus acanthias) to waterborne silver exposure. Aquatic Toxicology, 2001, 54, 261-275.	4.0	63
40	Ultraviolet Radiation Enhances the Toxicity of Deepwater Horizon Oil to Mahi-mahi (Coryphaena hippurus) Embryos. Environmental Science & Technology, 2016, 50, 2011-2017.	10.0	58
41	Physiological responses to acute silver exposure in the freshwater crayfish (Cambarus diogenes) Tj ETQq1 1 0.784314 rgBT /Overlock	4.3	57
42	Physiological Basis for Large Differences in Resistance to Nitrite among Freshwater and Freshwater-Acclimated Euryhaline Fishes. Environmental Science & Technology, 2005, 39, 98-102.	10.0	56
43	Postprandial acidâ€“base balance and ion regulation in freshwater and seawater-acclimated European flounder, Platichthys flesus. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2007, 177, 597-608.	1.5	55
44	Copper metabolism and gut morphology in rainbow trout (Oncorhynchus mykiss) during chronic sublethal dietary copper exposure. Canadian Journal of Fisheries and Aquatic Sciences, 2001, 58, 293-305.	1.4	51
45	Body fluid volume regulation in elasmobranch fish. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 148, 3-13.	1.8	51
46	Modulation of NaCl absorption by [HCO₃^{â^'}] in the marine teleost intestine is mediated by soluble adenylyl cyclase. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 299, R62-R71.	1.8	51
47	A critical analysis of transepithelial potential in intact killifish (Fundulus heteroclitus) subjected to acute and chronic changes in salinity. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2008, 178, 713-727.	1.5	50
48	High net calcium uptake explains the hypersensitivity of the freshwater pulmonate snail, Lymnaea stagnalis, to chronic lead exposure. Aquatic Toxicology, 2009, 91, 302-311.	4.0	49
49	Acid-base physiology and CO2 homeostasis: Regulation and compensation in response to elevated environmental CO2. Fish Physiology, 2019, , 69-132.	0.8	49
50	Mechanisms of dietary Cu uptake in freshwater rainbow trout: evidence for Na-assisted Cu transport and a specific metal carrier in the intestine. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2007, 177, 433-446.	1.5	48
51	Gastro-intestinal handling of water and solutes in three species of elasmobranch fish, the white-spotted bamboo shark, Chiloscyllium plagiosum, little skate, Leucoraja erinacea and the clear nose skate Raja eglanteria. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2010, 155, 493-502.	1.8	47
52	Physical characterization of high-affinity gastrointestinal Cu transport in vitro in freshwater rainbow trout Oncorhynchus mykiss. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2006, 176, 793-806.	1.5	46
53	Intestinal transport following transfer to increased salinity in an anadromous fish (Oncorhynchus) Tj ETQq1 1 0.784314 rgBT /Overlock 159, 150-158.	1.8	46
54	Physiological impacts of Deepwater Horizon oil on fish. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2019, 224, 108558.	2.6	46

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55	Evolutionary aspects of intestinal bicarbonate secretion in fish. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2006, 143, 523-529.	1.8	43
56	The serotonin subtype 1A receptor regulates cortisol secretion in the Gulf toadfish, Opsanus beta. General and Comparative Endocrinology, 2010, 168, 377-387.	1.8	43
57	Capture, transport, prophylaxis, acclimation, and continuous spawning of Mahi-mahi (Coryphaena) Tj ETQq1 1 0.784314 rgBT /Overlock	3.5	43
58	Physiological responses of corals to ocean acidification and copper exposure. Marine Pollution Bulletin, 2018, 133, 781-790.	5.0	43
59	Waterborne iron acquisition by a freshwater teleost fish, zebrafish Danio rerio. Journal of Experimental Biology, 2003, 206, 3529-3535.	1.7	42
60	The toxicity and physiological effects of copper on the freshwater pulmonate snail, Lymnaea stagnalis. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2011, 154, 261-267.	2.6	41
61	Methods matter in repeating ocean acidification studies. Nature, 2020, 586, E20-E24.	27.8	41
62	Toxicogenomics of water chemistry influence on chronic lead exposure to the fathead minnow (Pimephales promelas). Aquatic Toxicology, 2008, 87, 200-209.	4.0	39
63	Ocean Acidification Leads to Counterproductive Intestinal Base Loss in the Gulf Toadfish (Opsanus) Tj ETQq1 1 0.784314 rgBT /Ov	1.5	39
64	Effects of chronic waterborne nickel exposure on growth, ion homeostasis, acid-base balance, and nickel uptake in the freshwater pulmonate snail, Lymnaea stagnalis. Aquatic Toxicology, 2014, 150, 36-44.	4.0	39
65	Comparative characterization of Na+ transport in Cyprinodon variegatus variegatus and Cyprinodon variegatus hubbsi: a model species complex for studying teleost invasion of freshwater. Journal of Experimental Biology, 2012, 215, 1199-1209.	1.7	37
66	Characterization and response of antioxidant systems in the tissues of the freshwater pond snail (Lymnaea stagnalis) during acute copper exposure. Aquatic Toxicology, 2016, 176, 38-44.	4.0	37
67	Cardio-respiratory function during exercise in the cobia, Rachycentron canadum: The impact of crude oil exposure. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2017, 201, 58-65.	2.6	37
68	Kinetics of radiolabelled silver uptake and depuration in the gills of rainbow trout (Oncorhynchus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2002, 56, 197-213.	4.0	36
69	Effects of water chemistry on the chronic toxicity of lead to the cladoceran, Ceriodaphnia dubia. Ecotoxicology and Environmental Safety, 2011, 74, 238-243.	6.0	36
70	Independence of net water flux from paracellular permeability in the intestine ofFundulus heteroclitus, a euryhaline teleost. Journal of Experimental Biology, 2012, 215, 508-517.	1.7	36
71	The solubility of fishâ€produced high magnesium calcite in seawater. Journal of Geophysical Research, 2012, 117, .	3.3	36
72	Exposure to ultraviolet radiation late in development increases the toxicity of oil to mahiâ€mahi (Coryphaena hippurus) embryos. Environmental Toxicology and Chemistry, 2017, 36, 1592-1598.	4.3	35

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73	Branchial and renal handling of urea in the gulf toadfish, Opsanus beta: the effect of exogenous urea loading. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2003, 134, 763-776.	1.8	34
74	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.	1.5	34
75	Combined effects of elevated temperature and Deepwater Horizon oil exposure on the cardiac performance of larval mahi-mahi, Coryphaena hippurus. PLoS ONE, 2018, 13, e0203949.	2.5	33
76	Development and validation of a biotic ligand model for predicting chronic toxicity of lead to Ceriodaphnia dubia. Environmental Toxicology and Chemistry, 2014, 33, 394-403.	4.3	32
77	Copper homeostasis and toxicity in the elasmobranch Raja erinacea and the teleost Myoxocephalus octodecemspinosus during exposure to elevated water-borne copper. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2003, 135, 179-190.	2.6	31
78	Novel transcriptome assembly and comparative toxicity pathway analysis in mahi-mahi (Coryphaena) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.3	31
79	Physiological responses to acute silver exposure in the freshwater crayfish (Cambarus diogenes) Tj ETQq1 1 0.784314 rgBT /Overlock	4.3	31
80	Influence of bicarbonate and humic acid on effects of chronic waterborne lead exposure to the fathead minnow (Pimephales promelas). Aquatic Toxicology, 2010, 96, 135-144.	4.0	30
81	Investigations into the mechanism of lead toxicity to the freshwater pulmonate snail, Lymnaea stagnalis. Aquatic Toxicology, 2012, 106-107, 147-156.	4.0	29
82	Effects of waterborne copper delivered under two different exposure and salinity regimes on osmotic and ionic regulation in the mudflat fiddler crab, Minuca rapax (Ocypodidae, Brachyura). Ecotoxicology and Environmental Safety, 2017, 143, 201-209.	6.0	29
83	Combined effects of oil exposure, temperature and ultraviolet radiation on buoyancy and oxygen consumption of embryonic mahi-mahi, Coryphaena hippurus. Aquatic Toxicology, 2017, 191, 113-121.	4.0	29
84	Impacts of Deepwater Horizon Crude Oil on Mahi-Mahi (Coryphaena hippurus) Heart Cell Function. Environmental Science & Technology, 2019, 53, 9895-9904.	10.0	29
85	The time course of silver accumulation in rainbow trout during static exposure to silver nitrate: physiological regulation or an artifact of the exposure conditions?. Aquatic Toxicology, 2004, 66, 55-72.	4.0	28
86	Characterization of mechanisms for Ca2+ and HCO3â€“/CO32â€“ acquisition for shell formation in embryos of the freshwater common pond snail Lymnaea stagnalis. Journal of Experimental Biology, 2010, 213, 4092-4098.	1.7	28
87	Assessment of early life stage mahiâ€mahi windows of sensitivity during acute exposures to Deepwater Horizon crude oil. Environmental Toxicology and Chemistry, 2017, 36, 1887-1895.	4.3	28
88	Damsels in Distress: Oil Exposure Modifies Behavior and Olfaction in Bicolor Damselfish (Stegastes partitus). Environmental Science & Technology, 2019, 53, 10993-11001.	10.0	28
89	Concentration of MgSO₄in the intestinal lumen ofOpsanus betalimits osmoregulation in response to acute hypersalinity stress. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 300, R895-R909.	1.8	27
90	Selected regulation of gastrointestinal acidâ€“base secretion and tissue metabolism for the diamondback water snake and Burmese python. Journal of Experimental Biology, 2012, 215, 185-196.	1.7	27

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91	A novel system for embryo-larval toxicity testing of pelagic fish: Applications for impact assessment of Deepwater Horizon crude oil. Chemosphere, 2016, 162, 261-268.	8.2	27
92	Oil Exposure Impairs In Situ Cardiac Function in Response to Î²-Adrenergic Stimulation in Cobia (Rachycentron canadum). Environmental Science & Technology, 2017, 51, 14390-14396.	10.0	26
93	Effects of corexit 9500A and Corexit-crude oil mixtures on transcriptomic pathways and developmental toxicity in early life stage mahi-mahi (Coryphaena hippurus). Aquatic Toxicology, 2019, 212, 233-240.	4.0	26
94	Growth inhibition in early life-stage tests predicts full life-cycle toxicity effects of lead in the freshwater pulmonate snail, Lymnaea stagnalis. Aquatic Toxicology, 2013, 128-129, 60-66.	4.0	25
95	Morphology and cardiac physiology are differentially affected by temperature in developing larvae of the marine fish mahi-mahi (Coryphaena hippurus). Biology Open, 2017, 6, 800-809.	1.2	25
96	Changes in microRNAâ€“mRNA Signatures Agree with Morphological, Physiological, and Behavioral Changes in Larval Mahi-Mahi Treated with Deepwater Horizon Oil. Environmental Science & Technology, 2018, 52, 13501-13510.	10.0	25
97	Internal redistribution of radiolabelled silver among tissues of rainbow trout (Oncorhynchus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 2003, 63, 139-157.	4.0	24
98	The impact of acute PAH exposure on the toadfish glucocorticoid stress response. Aquatic Toxicology, 2017, 192, 89-96.	4.0	24
99	Effects of thermal stress and nitrate enrichment on the larval performance of two Caribbean reef corals. Coral Reefs, 2018, 37, 173-182.	2.2	24
100	Combined effects of hypoxia or elevated temperature and Deepwater Horizon crude oil exposure on juvenile mahi-mahi swimming performance. Marine Environmental Research, 2018, 139, 129-135.	2.5	24
101	TEP on the tide in killifish (Fundulus heteroclitus): effects of progressively changing salinity and prior acclimation to intermediate or cycling salinity. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2009, 179, 459-467.	1.5	23
102	Comparative Investigation of Copper Tolerance and Identification of Putative Tolerance Related Genes in Tardigrades. Frontiers in Physiology, 2017, 8, 95.	2.8	23
103	Physiological Responses of Fish to Oil Spills. Annual Review of Marine Science, 2021, 13, 137-160.	11.6	23
104	Dimethyl Sulfide is a Chemical Attractant for Reef Fish Larvae. Scientific Reports, 2017, 7, 2498.	3.3	22
105	Effects of acute and chronic waterborne lead exposure on the swimming performance and aerobic scope of fathead minnows (Pimephales promelas). Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2011, 154, 7-13.	2.6	21
106	Temperature and acidâ€“base balance in the American lobster Homarus americanus. Journal of Experimental Biology, 2007, 210, 1245-1254.	1.7	20
107	Fundulus heteroclitus acutely transferred from seawater to high salinity require few adjustments to intestinal transport associated with osmoregulation. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2011, 160, 156-165.	1.8	20
108	Guanylin peptides regulate electrolyte and fluid transport in the Gulf toadfish (Opsanus beta) posterior intestine. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 307, R1167-R1179.	1.8	20

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109	Esophageal desalination is mediated by Na+, H+ exchanger-2 in the gulf toadfish (Opsanus beta). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2014, 171, 57-63.	1.8	19
110	Changes to Intestinal Transport Physiology and Carbonate Production at Various CO₂Levels in a Marine Teleost, the Gulf Toadfish (Opsanus beta). Physiological and Biochemical Zoology, 2016, 89, 402-416.	1.5	18
111	Deepwater Horizon crude oil exposure alters cholesterol biosynthesis with implications for developmental cardiotoxicity in larval mahi-mahi (Coryphaena hippurus). Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2019, 220, 31-35.	2.6	18
112	The Influence of Dietary Na on Cu Accumulation in Juvenile Rainbow Trout Exposed to Combined Dietary and Waterborne Cu in Soft Water. Archives of Environmental Contamination and Toxicology, 2005, 49, 520-527.	4.1	17
113	Diet influences salinity preference of an estuarine fish, the killifishFundulus heteroclitus. Journal of Experimental Biology, 2012, 215, 1965-1974.	1.7	17
114	The role of the rectum in osmoregulation and the potential effect of renoguanylin on SLC26a6 transport activity in the Gulf toadfish (Opsanus beta). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 311, R179-R191.	1.8	17
115	Impacts of Petroleum, Petroleum Components, and Dispersants on Organisms and Populations. Oceanography, 2021, 34, 136-151.	1.0	17
116	Heart Performance Determination by Visualization in Larval Fishes: Influence of Alternative Models for Heart Shape and Volume. Frontiers in Physiology, 2017, 8, 464.	2.8	16
117	Exposure to Crude Oil from the Deepwater Horizon Oil Spill Impairs Oil Avoidance Behavior without Affecting Olfactory Physiology in Juvenile Mahi-Mahi (Coryphaena hippurus). Environmental Science & Technology, 2019, 53, 14001-14009.	10.0	16
118	Acute crude oil exposure alters mitochondrial function and ADP affinity in cardiac muscle fibers of young adult Mahi-mahi (Coryphaena hippurus). Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2019, 218, 88-95.	2.6	16
119	Benefits from the Sea: Sentinel Species and Animal Models of Human Health. Oceanography, 2006, 19, 126-133.	1.0	16
120	Effects of waterborne silver in a marine teleost, the gulf toadfish (Opsanus beta): Effects of feeding and chronic exposure on bioaccumulation and physiological responses. Aquatic Toxicology, 2010, 99, 138-148.	4.0	15
121	Differential Expression of MicroRNAs in Embryos and Larvae of Mahi-Mahi (Coryphaena) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 Letters, 2017, 4, 523-529.	8.7	15
122	Maximum salinity tolerance and osmoregulatory capabilities of European perchPerca fluviatilispopulations originating from different salinity habitats. , 2019, 7, coz004.		15
123	Acquisition of Ca2+ and HCO3 â^'/CO3 2â^' for shell formation in embryos of the common pond snail Lymnaea stagnalis. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2010, 180, 953-965.	1.5	14
124	Mechanisms of transepithelial ammonia excretion and luminal alkalinization in the gut of an intestinal air-breathing fish, Misgurnus anguilliacaudatus. Journal of Experimental Biology, 2013, 216, 623-32.	1.7	14
125	Nutritional physiology of mahi-mahi (Coryphaena hippurus): Postprandial metabolic response to different diets and metabolic impacts on swim performance. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2018, 215, 28-34.	1.8	14
126	Intra-Specific Difference in the Effect of Salinity on Physiological Performance in European Perch (Perca fluviatilis) and Its Ecological Importance for Fish in Estuaries. Biology, 2019, 8, 89.	2.8	14

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127	The effects of total dissolved solids on egg fertilization and water hardening in two salmonidsâ€"Arctic Grayling (Thymallus arcticus) and Dolly Varden (Salvelinus malma). Aquatic Toxicology, 2010, 97, 109-115.	4.0	13
128	Exposure to Hydraulic Fracturing Flowback Water Impairs Mahi-Mahi (Coryphaena) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Science & Technology, 2020, 54, 13579-13589.	10.0	13
129	Impacts of a local music festival on fish stress hormone levels and the adjacent underwater soundscape. Environmental Pollution, 2020, 265, 114925.	7.5	13
130	Studies on lipid metabolism in trout (Oncorhynchus mykiss) branchial cultures. The Journal of Experimental Zoology, 2002, 293, 683-692.	1.4	12
131	EFFECTS OF WATER HARDNESS ON TOXICOLOGICAL RESPONSES TO CHRONIC WATERBORNE SILVER EXPOSURE IN EARLY LIFE STAGES OF RAINBOW TROUT (ONCORHYNCHUS MYKISS). Environmental Toxicology and Chemistry, 2005, 24, 1642.	4.3	12
132	Na ⁺ K ⁺ ATPase isoform switching in zebrafish during transition to dilute freshwater habitats. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20190630.	2.6	12
133	Mahiâ€mahi (Coryphaena hippurus) life development: morphological, physiological, behavioral and molecular phenotypes. Developmental Dynamics, 2019, 248, 337-350.	1.8	12
134	Tissue Accumulation and the Effects of Long-Term Dietary Copper Contamination on Osmoregulation in the Mudflat Fiddler Crab Minuca rapax (Crustacea, Ocypodidae). Bulletin of Environmental Contamination and Toxicology, 2020, 104, 755-762.	2.7	12
135	Hydromineral balance in the marine gulf toadfish (Opsanus beta) exposed to waterborne or infused nickel. Aquatic Toxicology, 2006, 80, 70-81.	4.0	11
136	Osmoregulatory capabilities of the gray snapper,Lutjanus griseus: salinity challenges and field observations. Marine and Freshwater Behaviour and Physiology, 2011, 44, 185-196.	0.9	11
137	Comparative evaluation of Na+ uptake in Cyprinodon variegatus variegatus (Lacepede) and Cyprinodon variegatus hubbsi (Carr) (Cyprinodontiformes, Teleostei): Evaluation of NHE function in high and low Na+ freshwater. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2015, 185, 115-124.	1.8	11
138	A proteinaceous organic matrix regulates carbonate mineral production in the marine teleost intestine. Scientific Reports, 2016, 6, 34494.	3.3	11
139	The osmorespiratory compromise in the euryhaline killifish: water regulation during hypoxia. Journal of Experimental Biology, 2019, 222, .	1.7	11
140	CO2 and calcification processes in fish. Fish Physiology, 2019, , 133-159.	0.8	11
141	An integrated systems-level model of the toxicity of brevetoxin based on high-resolution magic-angle spinning nuclear magnetic resonance (HRMAS NMR) metabolic profiling of zebrafish embryos. Science of the Total Environment, 2022, 803, 149858.	8.0	11
142	The developing zebrafish kidney is impaired by Deepwater Horizon crude oil early-life stage exposure: A molecular to whole-organism perspective. Science of the Total Environment, 2022, 808, 151988.	8.0	11
143	The differential role of renoguanylin in osmoregulation and apical Cl^{â^'}/HCO₃^{â^'}exchange activity in the posterior intestine of the Gulf toadfish (Opsanus beta). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 309, R399-R409.	1.8	10
144	Developmental transcriptomic analyses for mechanistic insights into critical pathways involved in embryogenesis of pelagic mahi-mahi (Coryphaena hippurus). PLoS ONE, 2017, 12, e0180454.	2.5	10

#	Article	IF	Citations
145	Renoguanylin stimulates apical CFTR translocation and decreases HCO3â^' secretion through PKA activity in the Gulf toadfish (Opsanus beta). Journal of Experimental Biology, 2018, 221, .	1.7	10
146	The potential for salt toxicity: Can the trans-epithelial potential (TEP) across the gills serve as a metric for major ion toxicity in fish?. Aquatic Toxicology, 2020, 226, 105568.	4.0	10
147	Is aquaporinâ€3 involved in waterâ€permeability changes in the killifish during hypoxia and normoxic recovery, in freshwater or seawater?. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2020, 333, 511-525.	1.9	10
148	BIOLOGICALLY INCORPORATED DIETARY SILVER HAS NO IONOREGULATORY EFFECTS IN AMERICAN RED CRAYFISH (PROCAMBARUS CLARKII). Environmental Toxicology and Chemistry, 2004, 23, 388.	4.3	9
149	The Effects of Dietary Silver on Larval Growth in the Echinoderm Lytechinus variegatus. Archives of Environmental Contamination and Toxicology, 2012, 63, 95-100.	4.1	9
150	Characterizing egg quality and larval performance from captive mahi-mahiCoryphaena hippurus(Linnaeus, 1758) spawns over time. Aquaculture Research, 2018, 49, 282-293.	1.8	9
151	Embryonic buoyancy control as a mechanism of ultraviolet radiation avoidance. Science of the Total Environment, 2019, 651, 3070-3078.	8.0	9
152	Electrical aspects of the osmorespiratory compromise: TEP responses to hypoxia in the euryhaline killifish (Fundulus heteroclitus) in fresh water and sea water. Journal of Experimental Biology, 2015, 218, 2152-5.	1.7	8
153	Fluid and osmolyte recovery in the common pond snailLymnaea stagnalisfollowing full-body withdrawal. Journal of Experimental Biology, 2008, 211, 327-336.	1.7	7
154	Thiocyanate, calcium and sulfate as causes of toxicity to Ceriodaphnia dubia in a hard rock mining effluent. Ecotoxicology and Environmental Safety, 2010, 73, 1646-1652.	6.0	7
155	Measuring intestinal fluid transport in vitro: Gravimetric method versus non-absorbable marker. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2016, 194, 27-36.	1.8	7
156	Fractionation of the Gulf toadfish intestinal precipitate organic matrix reveals potential functions of individual proteins. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2017, 208, 35-45.	1.8	7
157	Intestinal Transport Processes in Marine Fish Osmoregulation. , 2007, , 333-357.		7
158	Are Membrane Lipids Involved in Osmoregulation? Studies in vivo on the European eel, Anguilla anguilla, After Reduced Ambient Salinity. Environmental Biology of Fishes, 2004, 70, 57-65.	1.0	6
159	Uptake, handling, and excretion of Na+ and Cl- from the diet in vivo in freshwater and seawater-acclimated killifish, Fundulus heteroclitus, an agastric teleost. Journal of Experimental Biology, 2013, 216, 3925-36.	1.7	6
160	Comparison of the organic matrix found in intestinal CaCO3 precipitates produced by several marine teleost species. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2018, 221, 15-23.	1.8	6
161	A Mystery Tale: Nickel Is Fickle When Snails Failâ€"Investigating the Variability in Ni Toxicity to the Great Pond Snail. Integrated Environmental Assessment and Management, 2020, 16, 983-997.	2.9	6
162	Quantifying the effects of pop-up satellite archival tags on the swimming performance and behavior of young-adult mahi-mahi (Coryphaena hippurus). Canadian Journal of Fisheries and Aquatic Sciences, 2021, 78, 32-39.	1.4	6

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163	Subcellular fractionation of Cu exposed oysters, Crassostrea virginica, and Cu accumulation from a biologically incorporated Cu rich oyster diet in Fundulus heteroclitus in fresh and sea water. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2009, 149, 531-537.	2.6	5
164	Characterization of Na+ uptake in the endangered desert pupfish, Cyprinodon macularius (Baird and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf		5
165	Salt-water acclimation of the estuarine crocodile Crocodylus porosus involves enhanced ion transport properties of the urodaeum and rectum. Journal of Experimental Biology, 2020, 223, .	1.7	5
166	Predictive modeling of selenium accumulation in brine shrimp in saline environments. Integrated Environmental Assessment and Management, 2011, 7, 478-482.	2.9	4
167	Interrogation of the Gulf toadfish intestinal proteome response to hypersalinity exposure provides insights into osmoregulatory mechanisms and regulation of carbonate mineral precipitation. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2018, 27, 66-76.	1.0	4
168	Whole-Transcriptome Sequencing of Epidermal Mucus as a Novel Method for Oil Exposure Assessment in Juvenile Mahi-Mahi (Coryphaena hippurus). Environmental Science and Technology Letters, 2019, 6, 538-544.	8.7	4
169	Magnesium transport in the aglomerular kidney of the Gulf toadfish (Opsanus beta). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2021, 191, 865-880.	1.5	4
170	Ultraviolet avoidance by embryonic buoyancy control in three species of marine fish. Science of the Total Environment, 2022, 806, 150542.	8.0	4
171	Development of visual function in early life stage mahi-mahi (coryphaena hippurus). Marine and Freshwater Behaviour and Physiology, 2020, 53, 203-214.	0.9	3
172	Ontogeny of Orientation during the Early Life History of the Pelagic Teleost Mahi-Mahi, Coryphaena hippurus Linnaeus, 1758. Oceans, 2020, 1, 237-250.	1.3	3
173	Special issue on aquaculture: New opportunities to address global food supply for comparative biochemistry and physiology. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2019, 233, 1-3.	1.6	2
174	Temperature sensitivity differs between heart and red muscle mitochondria in mahi-mahi (Coryphaena) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.3	2
175	Effects of temperature on athletic performance in the pelagic Mahiâ€mahi (Coryphaena hippurus). FASEB Journal, 2019, 33, 726.3.	0.5	2
176	Enhanced oxygen unloading in two marine percomorph teleosts. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2021, 264, 111101.	1.8	2
177	The effects of acute temperature change and digestive status on in situ cardiac function in mahi-mahi (Coryphaena hippurus). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2021, 255, 110915.	1.8	1
178	Crude oil impairs heart cell function in the mahiâ€mahi (Coryphaena hippurus). FASEB Journal, 2018, 32, 602.11.	0.5	1
179	The Effects of Ocean Acidification in the California sea hare (Aplysia californica). FASEB Journal, 2020, 34, 1-1.	0.5	1
180	Using phenotypic plasticity: focus on â€œIdentification of renal transporters involved in sulfate excretion in marine teleost fishâ€• American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 297, R1645-R1646.	1.8	0

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181	A marine teleost, Opsanus beta, compensates acidosis in hypersaline water by H+ excretion or reduced HCO3â˜ excretion rather than HCO3â˜ uptake. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2021, 191, 85-98.	1.5	0
182	Effects of Elevated CO 2 on Yellowfin tuna (Thunnus albacares) Early Life Stage Respiration and Ammonia Excretion. FASEB Journal, 2020, 34, 1-1.	0.5	0