

Chris M Wood

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719
papers

27,271
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78
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113
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738
ext. papers

29,388
ext. citations

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L-index

#	Paper	IF	Citations
719	Biotic ligand model, a flexible tool for developing site-specific water quality guidelines for metals. <i>Environmental Science & Technology</i> , 2004 , 38, 6177-92	10.3	496
718	Acid-Base and Ion Balance, Metabolism, and their Interactions, after Exhaustive Exercise in Fish. <i>Journal of Experimental Biology</i> , 1991 , 160, 285-308	3	289
717	Why do fish die after severe exercise?. <i>Journal of Fish Biology</i> , 1983 , 22, 189-201	1.9	283
716	A new paradigm for ammonia excretion in aquatic animals: role of Rhesus (Rh) glycoproteins. <i>Journal of Experimental Biology</i> , 2009 , 212, 2303-12	3	265
715	Effects of chronic sublethal exposure to waterborne Cu, Cd or Zn in rainbow trout. 1: Iono-regulatory disturbance and metabolic costs. <i>Aquatic Toxicology</i> , 2000 , 50, 231-243	5.1	249
714	The biotic ligand model: a historical overview. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2002 , 133, 3-35	3.2	235
713	Copper uptake across rainbow trout gills. <i>Journal of Experimental Biology</i> , 2002 , 205, 1179-1188	3	223
712	Urea excretion as a strategy for survival in a fish living in a very alkaline environment. <i>Nature</i> , 1989 , 337, 165-6	50.4	221
711	Toward a better understanding of the bioavailability, physiology, and toxicity of silver in fish: Implications for water quality criteria. <i>Environmental Toxicology and Chemistry</i> , 1998 , 17, 547-561	3.8	214
710	The effects of chronic plasma cortisol elevation on the feeding behaviour, growth, competitive ability, and swimming performance of juvenile rainbow trout. <i>Physiological and Biochemical Zoology</i> , 1999 , 72, 286-95	2	197
709	Copper uptake across rainbow trout gills: mechanisms of apical entry. <i>Journal of Experimental Biology</i> , 2002 , 205, 1179-88	3	180
708	The mechanism of acute silver nitrate toxicity in freshwater rainbow trout (<i>Oncorhynchus mykiss</i>) is inhibition of gill Na ⁺ and Cl ⁻ transport. <i>Aquatic Toxicology</i> , 1997 , 38, 145-163	5.1	179
707	Ammonia excretion in rainbow trout (<i>Oncorhynchus mykiss</i>): evidence for Rh glycoprotein and H ⁺ -ATPase involvement. <i>Physiological Genomics</i> , 2007 , 31, 463-74	3.6	176
706	The use of fish cells in ecotoxicology. The report and recommendations of ECVAM Workshop 47. <i>ATLA Alternatives To Laboratory Animals</i> , 2003 , 31, 317-51	2.1	176
705	Disturbances in Haematology, Fluid Volume Distribution and Circulatory Function Associated with Low Environmental pH in the Rainbow Trout, <i>Salmo Gairdneri</i> . <i>Journal of Experimental Biology</i> , 1982 , 99, 397-415	3	173
704	Physiology and modeling of mechanisms of silver uptake and toxicity in fish. <i>Environmental Toxicology and Chemistry</i> , 1999 , 18, 71-83	3.8	171
703	The physiology of waterborne silver toxicity in freshwater rainbow trout (<i>Oncorhynchus mykiss</i>) 1. The effects of ionic Ag ⁺ . <i>Aquatic Toxicology</i> , 1996 , 35, 93-109	5.1	167

702	Oxidative stress response and gene expression with acute copper exposure in zebrafish (<i>Danio rerio</i>). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007 , 293, R1882-92	3.2	165
701	Cadmium disrupts behavioural and physiological responses to alarm substance in juvenile rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Journal of Experimental Biology</i> , 2003 , 206, 1779-90	3	149
700	Toxicity, silver accumulation and metallothionein induction in freshwater rainbow trout during exposure to different silver salts. <i>Environmental Toxicology and Chemistry</i> , 1996 , 15, 1102-1108	3.8	144
699	Control and coordination of gas transfer in fishes. <i>Canadian Journal of Zoology</i> , 1989 , 67, 2961-2970	1.5	141
698	Ion balance, acid-base regulation, and chloride cell function in the common killifish, <i>Fundulus heteroclitus</i> euryhaline estuarine teleost. <i>Estuaries and Coasts</i> , 1994 , 17, 34		139
697	Mechanisms of ion and acid-base regulation at the gills of freshwater fish. <i>The Journal of Experimental Zoology</i> , 1992 , 263, 143-59		139
696	Mechanism of acute silver toxicity in <i>Daphnia magna</i> . <i>Environmental Toxicology and Chemistry</i> , 2003 , 22, 1361-1367	3.8	137
695	Effects of chronic sublethal exposure to waterborne Cu, Cd or Zn in rainbow trout 2: tissue specific metal accumulation. <i>Aquatic Toxicology</i> , 2000 , 50, 245-256	5.1	133
694	Utility of tissue residues for predicting effects of metals on aquatic organisms. <i>Integrated Environmental Assessment and Management</i> , 2011 , 7, 75-98	2.5	131
693	Cadmium accumulation, gill Cd binding, acclimation, and physiological effects during long term sublethal Cd exposure in rainbow trout. <i>Aquatic Toxicology</i> , 1999 , 46, 101-119	5.1	131
692	Ionoregulatory disruption as the acute toxic mechanism for lead in the rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Aquatic Toxicology</i> , 2003 , 64, 215-34	5.1	125
691	Flux measurements as indices of H ⁺ and metal effects on freshwater fish. <i>Aquatic Toxicology</i> , 1992 , 22, 239-263	5.1	120
690	Cu uptake and turnover in both Cu-acclimated and non-acclimated rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Aquatic Toxicology</i> , 1997 , 38, 257-276	5.1	116
689	Ammonia and urea dynamics in the Lake Magadi tilapia, a ureotelic teleost fish adapted to an extremely alkaline environment. <i>Respiration Physiology</i> , 1989 , 77, 1-20		115
688	Gene expression after freshwater transfer in gills and opercular epithelia of killifish: insight into divergent mechanisms of ion transport. <i>Journal of Experimental Biology</i> , 2005 , 208, 2719-29	3	114
687	Physiological effects of chronic copper exposure to rainbow trout (<i>Oncorhynchus mykiss</i>) in hard and soft water: Evaluation of chronic indicators. <i>Environmental Toxicology and Chemistry</i> , 2000 , 19, 2298-2308	3.8	112
686	Lactate and Proton Dynamics in the Rainbow Trout (<i>Salmo Gairdneri</i>). <i>Journal of Experimental Biology</i> , 1983 , 104, 247-268	3	111
685	Copper metabolism in actively growing rainbow trout (<i>Oncorhynchus mykiss</i>): interactions between dietary and waterborne copper uptake. <i>Journal of Experimental Biology</i> , 2002 , 205, 279-290	3	111

684	Tissue-specific cadmium accumulation, metallothionein induction, and tissue zinc and copper levels during chronic sublethal cadmium exposure in juvenile rainbow trout. <i>Archives of Environmental Contamination and Toxicology</i> , 2001 , 41, 468-74	3.2	110
683	The effect of hypoxia on gill morphology and ionoregulatory status in the Lake Qinghai scaleless carp, <i>Gymnocypris przewalskii</i> . <i>Journal of Experimental Biology</i> , 2008 , 211, 1063-74	3	109
682	Effects of chronic Cd exposure via the diet or water on internal organ-specific distribution and subsequent gill Cd uptake kinetics in juvenile rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Environmental Toxicology and Chemistry</i> , 2001 , 20, 597-607	3.8	109
681	A Physiologically Based Biotic Ligand Model for Predicting the Acute Toxicity of Waterborne Silver to Rainbow Trout in Freshwaters. <i>Environmental Science & Technology</i> , 2000 , 34, 4199-4207	10.3	109
680	Acute waterborne nickel toxicity in the rainbow trout (<i>Oncorhynchus mykiss</i>) occurs by a respiratory rather than ionoregulatory mechanism. <i>Aquatic Toxicology</i> , 2003 , 63, 65-82	5.1	101
679	A Critical Examination of the Physical and Adrenergic Factors Affecting Blood Flow Through the Gills of the Rainbow Trout. <i>Journal of Experimental Biology</i> , 1974 , 60, 241-265	3	100
678	Respiratory gas exchange, nitrogenous waste excretion, and fuel usage during starvation in juvenile rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1996 , 165, 542-51	2.2	99
677	Ion Flux Rates, Acid-Base Status, and Blood Gases in Rainbow Trout, <i>Salmo gairdneri</i> , Exposed to Toxic Zinc in Natural Soft Water. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1985 , 42, 1332-1341	2.4	99
676	Characterization of branchial lead-calcium interaction in the freshwater rainbow trout <i>Oncorhynchus mykiss</i> . <i>Journal of Experimental Biology</i> , 2004 , 207, 813-25	3	98
675	Acid-Base and Ionic Exchanges at Gills and Kidney After Exhaustive Exercise in the Rainbow Trout. <i>Journal of Experimental Biology</i> , 1988 , 136, 461-481	3	98
674	Rhesus glycoprotein gene expression in the mangrove killifish <i>Kryptolebias marmoratus</i> exposed to elevated environmental ammonia levels and air. <i>Journal of Experimental Biology</i> , 2007 , 210, 2419-29	3	97
673	Mechanisms of acute and chronic waterborne nickel toxicity in the freshwater cladoceran, <i>Daphnia magna</i> . <i>Environmental Science & Technology</i> , 2003 , 37, 4382-9	10.3	97
672	Tissue-specific cadmium and metallothionein levels in rainbow trout chronically acclimated to waterborne or dietary cadmium. <i>Archives of Environmental Contamination and Toxicology</i> , 2005 , 48, 381-90	3.2	95
671	Alkaline tide and nitrogen conservation after feeding in an elasmobranch (<i>Squalus acanthias</i>). <i>Journal of Experimental Biology</i> , 2005 , 208, 2693-705	3	95
670	Acute silver toxicity in aquatic animals is a function of sodium uptake rate. <i>Environmental Science & Technology</i> , 2002 , 36, 1763-6	10.3	95
669	The influence of swimming activity on water balance in the rainbow trout (<i>Salmo gairdneri</i>). <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1973 , 82, 257-276	2.3	95
668	Canada's Species at Risk Act. <i>Fisheries</i> , 2005 , 30, 11-19	1.1	94
667	Intraspecific divergence of ionoregulatory physiology in the euryhaline teleost <i>Fundulus heteroclitus</i> : possible mechanisms of freshwater adaptation. <i>Journal of Experimental Biology</i> , 2004 , 207, 3399-410	3	93

666	Calcium/cadmium interactions at uptake surfaces in rainbow trout: waterborne versus dietary routes of exposure. <i>Environmental Toxicology and Chemistry</i> , 2005 , 24, 2954-64	3.8	93
665	Individual variation and interrelationships between swimming performance, growth rate, and feeding in juvenile rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1998 , 55, 1583-1590	2.4	93
664	Effects of chloride, calcium, and dissolved organic carbon on silver toxicity: Comparison between rainbow trout and fathead minnows. <i>Environmental Toxicology and Chemistry</i> , 1999 , 18, 56-62	3.8	91
663	Haemolymph gas transport, acid-base regulation, and anaerobic metabolism during exercise in the land crab (<i>Cardisoma carnifex</i>). <i>The Journal of Experimental Zoology</i> , 1981 , 218, 23-35		90
662	Water chemistry changes in the gill micro-environment of rainbow trout: experimental observations and theory. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1989 , 159, 527-537	2.2	89
661	The influence of temperature and anaemia on the adrenergic and cholinergic mechanisms controlling heart rate in the rainbow trout. <i>Canadian Journal of Zoology</i> , 1979 , 57, 2440-2447	1.5	88
660	The Influence of Experimental Anaemia on Blood Acid-Base Regulation In Vivo and In Vitro in the Starry Flounder (<i>Platichthys Stellatus</i>) and the Rainbow Trout (<i>Salmo Gairdneri</i>). <i>Journal of Experimental Biology</i> , 1982 , 96, 221-237	3	88
659	Seven things fish know about ammonia and we don't. <i>Respiratory Physiology and Neurobiology</i> , 2012 , 184, 231-40	2.8	87
658	Metal uptake and acute toxicity in zebrafish: common mechanisms across multiple metals. <i>Aquatic Toxicology</i> , 2011 , 105, 385-93	5.1	87
657	The cost of living for freshwater fish in a warmer, more polluted world. <i>Global Change Biology</i> , 2001 , 7, 345-355	11.4	87
656	The influence of swimming activity on sodium balance in the rainbow trout (<i>Salmo gairdneri</i>). <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1973 , 82, 207-233	2.3	87
655	Niche dimensions in fishes: an integrative view. <i>Physiological and Biochemical Zoology</i> , 2010 , 83, 808-26	2	86
654	The two faces of DOC. <i>Aquatic Toxicology</i> , 2011 , 105, 3-8	5.1	85
653	Mechanistic analysis of acute, Ni-induced respiratory toxicity in the rainbow trout (<i>Oncorhynchus mykiss</i>): an exclusively branchial phenomenon. <i>Aquatic Toxicology</i> , 2004 , 69, 11-24	5.1	85
652	Bioavailability of silver and its relationship to ionoregulation and silver speciation across a range of salinities in the gulf toadfish (<i>Opsanus beta</i>). <i>Aquatic Toxicology</i> , 2004 , 70, 137-57	5.1	85
651	ATP-dependent silver transport across the basolateral membrane of rainbow trout gills. <i>Toxicology and Applied Pharmacology</i> , 1999 , 159, 1-8	4.6	85
650	Copper metabolism in actively growing rainbow trout (<i>Oncorhynchus mykiss</i>): interactions between dietary and waterborne copper uptake. <i>Journal of Experimental Biology</i> , 2002 , 205, 279-90	3	85
649	Effects of altering freshwater chemistry on physiological responses of rainbow trout to silver exposure. <i>Environmental Toxicology and Chemistry</i> , 1999 , 18, 49-55	3.8	84

648	Blood acid-base regulation during environmental hyperoxia in the rainbow trout (<i>Salmo gairdneri</i>). <i>Respiration Physiology</i> , 1980 , 42, 351-72		84
647	Control of ventilation in the hypercapnic skate <i>Raja ocellata</i> : I. Blood and extradural fluid. <i>Respiration Physiology</i> , 1990 , 80, 259-77		83
646	Oxygen and carbon dioxide exchange during exercise in the land crab (<i>Cardisoma carnifex</i>). <i>The Journal of Experimental Zoology</i> , 1981 , 218, 7-22		83
645	Nitrogenous Waste Excretion, Acid-Base Regulation, and Ionoregulation in Rainbow Trout (<i>Oncorhynchus mykiss</i>) Exposed to Extremely Alkaline Water. <i>Physiological Zoology</i> , 1991 , 64, 1069-1086		83
644	In situ measurement of coastal ocean movements and survival of juvenile Pacific salmon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 8708-13	11.5	82
643	Tribute to R. G. Boutilier: the effect of size on the physiological and behavioural responses of oscar, <i>Astronotus ocellatus</i> , to hypoxia. <i>Journal of Experimental Biology</i> , 2006 , 209, 1197-205	3	81
642	Costs of chronic waterborne zinc exposure and the consequences of zinc acclimation on the gill/zinc interactions of rainbow trout in hard and soft water. <i>Environmental Toxicology and Chemistry</i> , 1999 , 18, 1014-1025	3.8	81
641	Ammonia transport in cultured gill epithelium of freshwater rainbow trout: the importance of Rhesus glycoproteins and the presence of an apical Na ⁺ /NH ₄ ⁺ exchange complex. <i>Journal of Experimental Biology</i> , 2009 , 212, 878-92	3	78
640	Physiological analysis of the stress response associated with acute silver nitrate exposure in freshwater rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Environmental Toxicology and Chemistry</i> , 1998 , 17, 579-588	3.8	78
639	Cultured gill epithelia as models for the freshwater fish gill. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2002 , 1566, 72-83	3.8	78
638	Control of ventilation in the hypercapnic skate <i>Raja ocellata</i> : II. Cerebrospinal fluid and intracellular pH in the brain and other tissues. <i>Respiration Physiology</i> , 1990 , 80, 279-97		78
637	Physiological Consequences of Severe Exercise in the Inactive Benthic Flathead Sole (<i>Hippoglossoides Elassodon</i>): A Comparison With The Active Pelagic Rainbow Trout (<i>Salmo Gairdneri</i>). <i>Journal of Experimental Biology</i> , 1983 , 104, 269-288	3	78
636	Rh glycoprotein expression is modulated in pufferfish (<i>Takifugu rubripes</i>) during high environmental ammonia exposure. <i>Journal of Experimental Biology</i> , 2010 , 213, 3150-60	3	77
635	Characterization of ion and acid-base transport in the fresh water adapted mummichog (<i>Fundulus heteroclitus</i>). <i>The Journal of Experimental Zoology</i> , 1997 , 279, 208-219		77
634	Urea and water permeability in dogfish (<i>Squalus acanthias</i>) gills. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 1998 , 119, 117-23	2.6	77
633	Physiological and molecular mechanisms of osmoregulatory plasticity in killifish after seawater transfer. <i>Journal of Experimental Biology</i> , 2008 , 211, 2450-9	3	77
632	Evaluation of the effect of reactive sulfide on the acute toxicity of silver (I) to <i>Daphnia magna</i> . Part 2: Toxicity results. <i>Environmental Toxicology and Chemistry</i> , 2002 , 21, 1294-1300	3.8	77
631	Effects of Chronic Waterborne and Dietary Metal Exposures on Gill Metal-Binding: Implications for the Biotic Ligand Model. <i>Human and Ecological Risk Assessment (HERA)</i> , 2003 , 9, 813-846	4.9	77

630	The Function of the Urinary Bladder In Vivo in the Freshwater Rainbow Trout. <i>Journal of Experimental Biology</i> , 1991 , 155, 567-583	3	77
629	Diverse strategies for ion regulation in fish collected from the ion-poor, acidic Rio Negro. <i>Physiological and Biochemical Zoology</i> , 2002 , 75, 37-47	2	76
628	The adaptations of fish to extremely alkaline environments. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1996 , 113, 665-673	2.3	76
627	The mechanisms of acid-base and ionoregulation in the freshwater rainbow trout during environmental hyperoxia and subsequent normoxia. III. Branchial exchanges. <i>Respiration Physiology</i> , 1984 , 55, 175-92		76
626	The effect of postprandial changes in pH along the gastrointestinal tract on the distribution of ions between the solid and fluid phases of chyme in rainbow trout. <i>Aquaculture Nutrition</i> , 2009 , 15, 282-296	3.2	75
625	Oxidative stress parameters and antioxidant response to sublethal waterborne zinc in a euryhaline teleost <i>Fundulus heteroclitus</i> : protective effects of salinity. <i>Aquatic Toxicology</i> , 2012 , 110-111, 187-93	5.1	74
624	Effects of dietary calcium and cadmium on cadmium accumulation, calcium and cadmium uptake from the water, and their interactions in juvenile rainbow trout. <i>Aquatic Toxicology</i> , 2005 , 72, 99-117	5.1	74
623	Physicochemical and spectroscopic properties of natural organic matter (NOM) from various sources and implications for ameliorative effects on metal toxicity to aquatic biota. <i>Aquatic Toxicology</i> , 2011 , 103, 179-90	5.1	73
622	The alkaline tide and ammonia excretion after voluntary feeding in freshwater rainbow trout. <i>Journal of Experimental Biology</i> , 2008 , 211, 2533-41	3	73
621	Daphnia need to be gut-cleared too: the effect of exposure to and ingestion of metal-contaminated sediment on the gut-clearance patterns of <i>D. magna</i> . <i>Aquatic Toxicology</i> , 2005 , 71, 143-54	5.1	73
620	Apparent H ⁺ Excretion and CO ₂ Dynamics Accompanying Carapace Mineralization in the Blue Crab (<i>Callinectes Sapidus</i>) Following Moulting. <i>Journal of Experimental Biology</i> , 1985 , 114, 181-196	3	73
619	Water dynamics in the digestive tract of the freshwater rainbow trout during the processing of a single meal. <i>Journal of Experimental Biology</i> , 2006 , 209, 1883-93	3	72
618	Dogmas and controversies in the handling of nitrogenous wastes: the effect of feeding and fasting on the excretion of ammonia, urea and other nitrogenous waste products in rainbow trout. <i>Journal of Experimental Biology</i> , 2004 , 207, 1993-2002	3	72
617	A protective effect of dietary calcium against acute waterborne cadmium uptake in rainbow trout. <i>Aquatic Toxicology</i> , 2004 , 67, 57-73	5.1	72
616	The effects of acid and acid/aluminum exposure on circulating plasma cortisol levels and other blood parameters in the rainbow trout, <i>Salmo gairdneri</i> . <i>Journal of Fish Biology</i> , 1988 , 32, 63-76	1.9	72
615	Protective effects of calcium against chronic waterborne cadmium exposure to juvenile rainbow trout. <i>Environmental Toxicology and Chemistry</i> , 2000 , 19, 2725-2734	3.8	71
614	Physiological disturbances in rainbow trout (<i>Salmo gairdneri</i>) during acid and aluminum exposures in soft water of two calcium concentrations. <i>Canadian Journal of Zoology</i> , 1989 , 67, 314-324	1.5	71
613	The skin of fish as a transport epithelium: a review. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2013 , 183, 877-91	2.2	70

612	Functional characterization of Rhesus glycoproteins from an ammoniotelic teleost, the rainbow trout, using oocyte expression and SIET analysis. <i>Journal of Experimental Biology</i> , 2010 , 213, 1049-59	3	70
611	Renal Cu and Na excretion and hepatic Cu metabolism in both Cu acclimated and non acclimated rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Aquatic Toxicology</i> , 1998 , 40, 275-291	5.1	70
610	Osmoregulation, ionoregulation and acid-base regulation by the gastrointestinal tract after feeding in the elasmobranch (<i>Squalus acanthias</i>). <i>Journal of Experimental Biology</i> , 2007 , 210, 1335-49	3	70
609	Metabolic Costs and Physiological Consequences of Acclimation to Aluminum in Juvenile Rainbow Trout (<i>Oncorhynchus mykiss</i>). 2: Gill Morphology, Swimming Performance, and Aerobic Scope. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1994 , 51, 536-544	2.4	70
608	Substrate utilization during graded aerobic exercise in rainbow trout. <i>Journal of Experimental Biology</i> , 2002 , 205, 2067-2077	3	70
607	The effect of water chemistry on the acute toxicity of nickel to the cladoceran <i>Daphnia pulex</i> and the development of a biotic ligand model. <i>Aquatic Toxicology</i> , 2009 , 91, 221-8	5.1	69
606	Effects of prolonged copper exposure in the marine gulf toadfish (<i>Opsanus beta</i>) II: copper accumulation, drinking rate and Na ⁺ /K ⁺ -ATPase activity in osmoregulatory tissues. <i>Aquatic Toxicology</i> , 2004 , 68, 263-75	5.1	69
605	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, 1191-204	2.2	68
604	Cortisol effects on aerobic and anaerobic metabolism, nitrogen excretion, and whole-body composition in juvenile rainbow trout. <i>Physiological and Biochemical Zoology</i> , 2001 , 74, 858-68	2	68
603	Na ⁺ and Cl ⁻ Uptake Kinetics, Diffusive Effluxes and Acidic Equivalent Fluxes Across the Gills of Rainbow Trout: I. Responses to Environmental Hyperoxia. <i>Journal of Experimental Biology</i> , 1990 , 152, 521-547	3	68
602	Kinetic analyses of waterborne Ca and Cd transport and their interactions in the gills of rainbow trout (<i>Oncorhynchus mykiss</i>) and yellow perch (<i>Perca flavescens</i>), two species differing greatly in acute waterborne Cd sensitivity. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2004 , 174, 243-53	2.2	67
601	Responses of an Amazonian teleost, the tambaqui (<i>Colossoma macropomum</i>), to low pH in extremely soft water. <i>Physiological Zoology</i> , 1998 , 71, 658-70		67
600	Muscle as the primary site of urea cycle enzyme activity in an alkaline lake-adapted tilapia, <i>Oreochromis alcalicus grahami</i> . <i>Journal of Biological Chemistry</i> , 1999 , 274, 29858-61	5.4	67
599	The oxygen debt hypothesis in juvenile rainbow trout after exhaustive exercise. <i>Respiration Physiology</i> , 1991 , 84, 245-59		67
598	A pharmacological analysis of the adrenergic and cholinergic mechanisms regulating branchial vascular resistance in the rainbow trout (<i>Salmo gairdneri</i>). <i>Canadian Journal of Zoology</i> , 1975 , 53, 1569-77.5		67
597	Protection by natural blackwater against disturbances in ion fluxes caused by low pH exposure in freshwater stingrays endemic to the Rio Negro. <i>Physiological and Biochemical Zoology</i> , 2003 , 76, 12-27	2	66
596	Bicarbonate secretion plays a role in chloride and water absorption of the European flounder intestine. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005 , 288, R936-46	3.2	66
595	Mechanism of branchial apical silver uptake by rainbow trout is via the proton-coupled Na ⁽⁺⁾ channel. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1999 , 277, R1385-91	3.2	66

594	Patterns of heart and scaphognathite activity in the crab <i>Cancer magister</i> . <i>The Journal of Experimental Zoology</i> , 1977 , 202, 33-43		66
593	Cadmium affects the social behaviour of rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Aquatic Toxicology</i> , 2003 , 65, 171-85	5.1	65
592	Intestinal HCO ₃ ⁻ secretion in marine teleost fish: evidence for an apical rather than a basolateral Cl ⁻ /HCO ₃ ⁻ exchanger. <i>Fish Physiology and Biochemistry</i> , 2001 , 24, 81-95	2.7	65
591	Effects of water pH and calcium concentration on ion balance in fish of the Rio Negro, Amazon. <i>Physiological Zoology</i> , 1998 , 71, 15-22		65
590	Ion and acid-base regulation in the freshwater mummichog (<i>Fundulus heteroclitus</i>): a departure from the standard model for freshwater teleosts. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 1999 , 122, 445-456	2.6	65
589	Branchial Ion and Acid-Base Transfer in Freshwater Teleost Fish: Environmental Hyperoxia as a Probe. <i>Physiological Zoology</i> , 1991 , 64, 68-102		65
588	Acute toxicity, accumulation and tissue distribution of copper in the blue crab <i>Callinectes sapidus</i> acclimated to different salinities: in vivo and in vitro studies. <i>Aquatic Toxicology</i> , 2011 , 101, 88-99	5.1	64
587	A matter of potential concern: natural organic matter alters the electrical properties of fish gills. <i>Environmental Science & Technology</i> , 2008 , 42, 9385-90	10.3	64
586	Plasticity of osmoregulatory function in the killifish intestine: drinking rates, salt and water transport, and gene expression after freshwater transfer. <i>Journal of Experimental Biology</i> , 2006 , 209, 4040-50	3	64
585	Effects of chronic waterborne nickel exposure on two successive generations of <i>Daphnia magna</i> . <i>Environmental Toxicology and Chemistry</i> , 2004 , 23, 1051-6	3.8	64
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