

Charles R Tyler

List of Publications by Citations

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196
papers

15,778
citations

66
h-index

122
g-index

205
ext. papers

17,398
ext. citations

6.7
avg, IF

6.65
L-index

#	Paper	IF	Citations
196	Widespread Sexual Disruption in Wild Fish. <i>Environmental Science & Technology</i> , 1998 , 32, 2498-2506	10.3	1563
195	Silver nanoparticles: behaviour and effects in the aquatic environment. <i>Environment International</i> , 2011 , 37, 517-31	12.9	909
194	Egg quality in fish: what makes a good egg?. <i>Reviews in Fish Biology and Fisheries</i> , 1997 , 7, 387-416	6	533
193	Long-term exposure to environmental concentrations of the pharmaceutical ethynylestradiol causes reproductive failure in fish. <i>Environmental Health Perspectives</i> , 2004 , 112, 1725-33	8.4	460
192	Uptake and retention of microplastics by the shore crab <i>Carcinus maenas</i> . <i>Environmental Science & Technology</i> , 2014 , 48, 8823-30	10.3	404
191	Pharmaceuticals in the aquatic environment: a critical review of the evidence for health effects in fish. <i>Critical Reviews in Toxicology</i> , 2010 , 40, 287-304	5.7	403
190	Relative potencies and combination effects of steroidal estrogens in fish. <i>Environmental Science & Technology</i> , 2003 , 37, 1142-9	10.3	395
189	Manufactured nanoparticles: their uptake and effects on fish--a mechanistic analysis. <i>Ecotoxicology</i> , 2008 , 17, 396-409	2.9	323
188	Effects of aqueous exposure to silver nanoparticles of different sizes in rainbow trout. <i>Toxicological Sciences</i> , 2010 , 115, 521-34	4.4	265
187	Validation of radioimmunoassays for two salmon gonadotropins (GTH I and GTH II) and their plasma concentrations throughout the reproductive cycle in male and female rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Biology of Reproduction</i> , 1996 , 54, 1375-82	3.9	261
186	Gene expression profiles revealing the mechanisms of anti-androgen- and estrogen-induced feminization in fish. <i>Aquatic Toxicology</i> , 2007 , 81, 219-31	5.1	260
185	Long-Term Temporal Changes in the Estrogenic Composition of Treated Sewage Effluent and Its Biological Effects on Fish. <i>Environmental Science & Technology</i> , 2000 , 34, 1521-1528	10.3	236
184	Uptake and biological effects of environmentally relevant concentrations of the nonsteroidal anti-inflammatory pharmaceutical diclofenac in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Environmental Science & Technology</i> , 2010 , 44, 2176-82	10.3	232
183	Acute Toxicity, Teratogenic, and Estrogenic Effects of Bisphenol A and Its Alternative Replacements Bisphenol S, Bisphenol F, and Bisphenol AF in Zebrafish Embryo-Larvae. <i>Environmental Science & Technology</i> , 2017 , 51, 12796-12805	10.3	223
182	Bioavailability of nanoscale metal oxides TiO(2), CeO(2), and ZnO to fish. <i>Environmental Science & Technology</i> , 2010 , 44, 1144-51	10.3	223
181	Assessing the biological potency of binary mixtures of environmental estrogens using vitellogenin induction in juvenile rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Environmental Science & Technology</i> , 2001 , 35, 2476-81	10.3	222
180	Toxicogenomics in regulatory ecotoxicology. <i>Environmental Science & Technology</i> , 2006 , 40, 4055-65	10.3	221

179	Exposure of juvenile roach (<i>Rutilus rutilus</i>) to treated sewage effluent induces dose-dependent and persistent disruption in gonadal duct development. <i>Environmental Science & Technology</i> , 2001 , 35, 462-70	10.3	208
178	An in vivo testing system for endocrine disruptors in fish early life stages using induction of vitellogenin. <i>Environmental Toxicology and Chemistry</i> , 1999 , 18, 337-347	3.8	207
177	Sexual disruption in a second species of wild cyprinid fish (the gudgeon, <i>Gobio gobio</i>) in United Kingdom Freshwaters. <i>Environmental Toxicology and Chemistry</i> , 2001 , 20, 2841-2847	3.8	183
176	Endocrine disrupting chemicals and sexual behaviors in fish—a critical review on effects and possible consequences. <i>Critical Reviews in Toxicology</i> , 2012 , 42, 653-68	5.7	174
175	The consequences of feminization in breeding groups of wild fish. <i>Environmental Health Perspectives</i> , 2011 , 119, 306-11	8.4	170
174	Microplastic ingestion by riverine macroinvertebrates. <i>Science of the Total Environment</i> , 2019 , 646, 68-74	10.2	167
173	Molecular mechanisms of toxicity of silver nanoparticles in zebrafish embryos. <i>Environmental Science & Technology</i> , 2013 , 47, 8005-14	10.3	164
172	Statistical modeling suggests that antiandrogens in effluents from wastewater treatment works contribute to widespread sexual disruption in fish living in English rivers. <i>Environmental Health Perspectives</i> , 2009 , 117, 797-802	8.4	147
171	A catchment-scale perspective of plastic pollution. <i>Global Change Biology</i> , 2019 , 25, 1207	11.4	144
170	Effects of atrazine on sex steroid dynamics, plasma vitellogenin concentration and gonad development in adult goldfish (<i>Carassius auratus</i>). <i>Aquatic Toxicology</i> , 2004 , 66, 369-79	5.1	142
169	Changes in estrogenic and androgenic activities at different stages of treatment in wastewater treatment works. <i>Environmental Toxicology and Chemistry</i> , 2002 , 21, 972-979	3.8	139
168	Identifying health impacts of exposure to copper using transcriptomics and metabolomics in a fish model. <i>Environmental Science & Technology</i> , 2010 , 44, 820-6	10.3	135
167	Dominance hierarchies in zebrafish (<i>Danio rerio</i>) and their relationship with reproductive success. <i>Zebrafish</i> , 2010 , 7, 109-17	2	133
166	Estrogenic potency of effluent from two sewage treatment works in the United Kingdom. <i>Environmental Toxicology and Chemistry</i> , 1999 , 18, 932-937	3.8	133
165	Interspecies comparisons on the uptake and toxicity of silver and cerium dioxide nanoparticles. <i>Environmental Toxicology and Chemistry</i> , 2012 , 31, 144-54	3.8	131
164	Molecular characterization of putative yolk processing enzymes and their expression during oogenesis and embryogenesis in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Biology of Reproduction</i> , 2001 , 65, 1701-9	3.9	118
163	Window of sensitivity for the estrogenic effects of ethinylestradiol in early life-stages of fathead minnow, <i>Pimephales promelas</i> . <i>Ecotoxicology</i> , 2002 , 11, 423-34	2.9	117
162	Multiple molecular effect pathways of an environmental oestrogen in fish. <i>Journal of Molecular Endocrinology</i> , 2006 , 37, 121-34	4.5	113

161	Integrating human and environmental health in antibiotic risk assessment: A critical analysis of protection goals, species sensitivity and antimicrobial resistance. <i>Environment International</i> , 2017 , 109, 155-169	12.9	107
160	Sexual reprogramming and estrogenic sensitization in wild fish exposed to ethinylestradiol. <i>Environmental Science & Technology</i> , 2009 , 43, 1219-25	10.3	105
159	Effects of silver and cerium dioxide micro- and nano-sized particles on <i>Daphnia magna</i> . <i>Journal of Environmental Monitoring</i> , 2011 , 13, 1227-35		104
158	Health impacts of estrogens in the environment, considering complex mixture effects. <i>Environmental Health Perspectives</i> , 2007 , 115, 1704-10	8.4	104
157	Nonylphenol affects gonadotropin levels in the pituitary gland and plasma of female rainbow trout. <i>Environmental Science & Technology</i> , 2001 , 35, 2909-16	10.3	101
156	Populations of a cyprinid fish are self-sustaining despite widespread feminization of males. <i>BMC Biology</i> , 2014 , 12, 1	7.3	100
155	Differential sensitivity of honey bees and bumble bees to a dietary insecticide (imidacloprid). <i>Zoology</i> , 2012 , 115, 365-71	1.7	100
154	Plasma biomarkers in fish provide evidence for endocrine modulation in the Elbe River, Germany. <i>Environmental Science & Technology</i> , 2002 , 36, 2311-21	10.3	99
153	Bioassay-directed identification of novel antiandrogenic compounds in bile of fish exposed to wastewater effluents. <i>Environmental Science & Technology</i> , 2011 , 45, 10660-7	10.3	98
152	Assessing the sensitivity of different life stages for sexual disruption in roach (<i>Rutilus rutilus</i>) exposed to effluents from wastewater treatment works. <i>Environmental Health Perspectives</i> , 2005 , 113, 1299-307	8.4	93
151	Population-level consequences for wild fish exposed to sublethal concentrations of chemicals: a critical review. <i>Fish and Fisheries</i> , 2016 , 17, 545-566	6	92
150	The Pathobiome in Animal and Plant Diseases. <i>Trends in Ecology and Evolution</i> , 2019 , 34, 996-1008	10.9	90
149	Effects of particle size and coating on nanoscale Ag and TiO ₂ exposure in zebrafish (<i>Danio rerio</i>) embryos. <i>Nanotoxicology</i> , 2013 , 7, 1315-24	5.3	90
148	Roach, Sex, and Gender-Bending Chemicals: The Feminization of Wild Fish in English Rivers. <i>BioScience</i> , 2008 , 58, 1051-1059	5.7	89
147	An environmental estrogen alters reproductive hierarchies, disrupting sexual selection in group-spawning fish. <i>Environmental Science & Technology</i> , 2008 , 42, 5020-5	10.3	88
146	Physiological and health consequences of social status in zebrafish (<i>Danio rerio</i>). <i>Physiology and Behavior</i> , 2010 , 101, 576-87	3.5	86
145	High doses of intravenously administered titanium dioxide nanoparticles accumulate in the kidneys of rainbow trout but with no observable impairment of renal function. <i>Toxicological Sciences</i> , 2009 , 109, 372-80	4.4	85
144	Estrogen-induced alterations in amh and dmrt1 expression signal for disruption in male sexual development in the zebrafish. <i>Environmental Science & Technology</i> , 2007 , 41, 6305-10	10.3	85

143	Imaging metal oxide nanoparticles in biological structures with CARS microscopy. <i>Optics Express</i> , 2008 , 16, 3408-19	3.3	80
142	Comparative responsiveness to natural and synthetic estrogens of fish species commonly used in the laboratory and field monitoring. <i>Aquatic Toxicology</i> , 2012 , 109, 250-8	5.1	78
141	Gonadal transcriptome responses and physiological consequences of exposure to oestrogen in breeding zebrafish (<i>Danio rerio</i>). <i>Aquatic Toxicology</i> , 2007 , 83, 134-42	5.1	76
140	Development of an in vivo screening assay for estrogenic chemicals using juvenile rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Environmental Toxicology and Chemistry</i> , 2000 , 19, 2812-2820	3.8	75
139	Altered sexual development in roach (<i>Rutilus rutilus</i>) exposed to environmental concentrations of the pharmaceutical 17alpha-ethinylestradiol and associated expression dynamics of aromatases and estrogen receptors. <i>Toxicological Sciences</i> , 2008 , 106, 113-23	4.4	73
138	Implications of persistent exposure to treated wastewater effluent for breeding in wild roach (<i>Rutilus rutilus</i>) populations. <i>Environmental Science & Technology</i> , 2011 , 45, 1673-9	10.3	71
137	Molecular characterization and expression of two ovarian lipoprotein receptors in the rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Biology of Reproduction</i> , 1998 , 58, 1146-53	3.9	71
136	Differing species responsiveness of estrogenic contaminants in fish is conferred by the ligand binding domain of the estrogen receptor. <i>Environmental Science & Technology</i> , 2014 , 48, 5254-63	10.3	70
135	Do hormone-modulating chemicals impact on reproduction and development of wild amphibians?. <i>Biological Reviews</i> , 2015 , 90, 1100-17	13.5	68
134	Hepatic transcriptomic and metabolomic responses in the stickleback (<i>Gasterosteus aculeatus</i>) exposed to environmentally relevant concentrations of dibenzanthracene. <i>Environmental Science & Technology</i> , 2009 , 43, 6341-8	10.3	67
133	Estrogenic wastewater treatment works effluents reduce egg production in fish. <i>Environmental Science & Technology</i> , 2009 , 43, 2976-82	10.3	67
132	Hepatic transcriptomic and metabolomic responses in the Stickleback (<i>Gasterosteus aculeatus</i>) exposed to ethinyl-estradiol. <i>Aquatic Toxicology</i> , 2010 , 97, 174-87	5.1	66
131	Cloning and characterization of cDNAs for hormones and/or receptors of growth hormone, insulin-like growth factor-I, thyroid hormone, and corticosteroid and the gender-, tissue-, and developmental-specific expression of their mRNA transcripts in fathead minnow (<i>Pimephales promelas</i>). <i>General and Comparative Endocrinology</i> , 2007 , 150, 151-63	3	65
130	Associations between altered vitellogenin concentrations and adverse health effects in fathead minnow (<i>Pimephales promelas</i>). <i>Aquatic Toxicology</i> , 2007 , 85, 176-83	5.1	65
129	Sequestration of zinc from zinc oxide nanoparticles and life cycle effects in the sediment dweller amphipod <i>Corophium volutator</i> . <i>Environmental Science & Technology</i> , 2012 , 46, 1128-35	10.3	63
128	Endocrine disruption in aquatic systems: up-scaling research to address ecological consequences. <i>Biological Reviews</i> , 2018 , 93, 626-641	13.5	63
127	Expression and localization of messenger ribonucleic acid for the vitellogenin receptor in ovarian follicles throughout oogenesis in the rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Biology of Reproduction</i> , 1999 , 60, 1057-68	3.9	62
126	Tracing bioavailability of ZnO nanoparticles using stable isotope labeling. <i>Environmental Science & Technology</i> , 2012 , 46, 12137-45	10.3	61

125	Metabolomics reveals target and off-target toxicities of a model organophosphate pesticide to roach (<i>Rutilus rutilus</i>): implications for biomonitoring. <i>Environmental Science & Technology</i> , 2011 , 45, 3759-67	10.3	61
124	Variability in measures of reproductive success in laboratory-kept colonies of zebrafish and implications for studies addressing population-level effects of environmental chemicals. <i>Aquatic Toxicology</i> , 2008 , 87, 115-26	5.1	61
123	The development of a radioimmunoassay for carp, <i>Cyprinus carpio</i> , vitellogenin. <i>Fish Physiology and Biochemistry</i> , 1990 , 8, 129-40	2.7	61
122	Climate change and pollution speed declines in zebrafish populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E1237-46	11.5	59
121	Characterization of cerium oxide nanoparticles-part 1: size measurements. <i>Environmental Toxicology and Chemistry</i> , 2012 , 31, 983-93	3.8	59
120	A new approach for plasma (xeno)metabolomics based on solid-phase extraction and nanoflow liquid chromatography-nanoelectrospray ionisation mass spectrometry. <i>Journal of Chromatography A</i> , 2014 , 1365, 72-85	4.5	58
119	Apparent underdiagnosis of Cerebrotendinous Xanthomatosis revealed by analysis of ~60,000 human exomes. <i>Molecular Genetics and Metabolism</i> , 2015 , 116, 298-304	3.7	56
118	Profiles and some initial identifications of (anti)androgenic compounds in fish exposed to wastewater treatment works effluents. <i>Environmental Science & Technology</i> , 2010 , 44, 1137-43	10.3	56
117	Evaluating antimicrobial resistance in the global shrimp industry. <i>Reviews in Aquaculture</i> , 2020 , 12, 966-986	9.6	55
116	Route of exposure affects the oestrogenic response of fish to 4-tert-nonylphenol. <i>Aquatic Toxicology</i> , 2003 , 65, 267-79	5.1	53
115	Biosensor zebrafish provide new insights into potential health effects of environmental estrogens. <i>Environmental Health Perspectives</i> , 2012 , 120, 990-6	8.4	51
114	Impact of environmental estrogens on Yfish considering the diversity of estrogen signaling. <i>General and Comparative Endocrinology</i> , 2013 , 191, 190-201	3	50
113	The xenometabolome and novel contaminant markers in fish exposed to a wastewater treatment works effluent. <i>Environmental Science & Technology</i> , 2012 , 46, 9080-8	10.3	50
112	Functional associations between two estrogen receptors, environmental estrogens, and sexual disruption in the roach (<i>Rutilus rutilus</i>). <i>Environmental Science & Technology</i> , 2007 , 41, 3368-74	10.3	50
111	Characterization of cerium oxide nanoparticles-part 2: nonsize measurements. <i>Environmental Toxicology and Chemistry</i> , 2012 , 31, 994-1003	3.8	49
110	Interactive effects of pesticide exposure and pathogen infection on bee health—a critical analysis. <i>Biological Reviews</i> , 2016 , 91, 1006-1019	13.5	49
109	Adaptive capabilities and fitness consequences associated with pollution exposure in fish. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017 , 372,	5.8	48
108	Pharmacology beyond the patient - The environmental risks of human drugs. <i>Environment International</i> , 2019 , 129, 320-332	12.9	48

107	Environmental estrogen-induced alterations of male aggression and dominance hierarchies in fish: a mechanistic analysis. <i>Environmental Science & Technology</i> , 2012 , 46, 3472-9	10.3	48
106	Selectivity of protein sequestration by vitellogenic oocytes of the rainbow trout, <i>Salmo gairdneri</i> . <i>The Journal of Experimental Zoology</i> , 1988 , 248, 199-206		48
105	Gas-liquid chromatography-tandem mass spectrometry methodology for the quantitation of estrogenic contaminants in bile of fish exposed to wastewater treatment works effluents and from wild populations. <i>Journal of Chromatography A</i> , 2010 , 1217, 112-8	4.5	47
104	Impacts of early life exposure to estrogen on subsequent breeding behavior and reproductive success in zebrafish. <i>Environmental Science & Technology</i> , 2010 , 44, 6481-7	10.3	44
103	Environmental health impacts of equine estrogens derived from hormone replacement therapy. <i>Environmental Science & Technology</i> , 2009 , 43, 3897-904	10.3	44
102	Understanding the molecular basis for differences in responses of fish estrogen receptor subtypes to environmental estrogens. <i>Environmental Science & Technology</i> , 2015 , 49, 7439-47	10.3	43
101	The purification and partial characterization of carp, <i>Cyprinus carpio</i> , vitellogenin. <i>Fish Physiology and Biochemistry</i> , 1990 , 8, 111-20	2.7	43
100	Follicle-stimulating hormone and its alpha and beta subunits in rainbow trout (<i>Oncorhynchus mykiss</i>): purification, characterization, development of specific radioimmunoassays, and their seasonal plasma and pituitary concentrations in females. <i>Biology of Reproduction</i> , 2001 , 65, 288-94	3.9	41
99	Gene expression profiling for understanding chemical causation of biological effects for complex mixtures: a case study on estrogens. <i>Environmental Science & Technology</i> , 2007 , 41, 8187-94	10.3	40
98	Fish p53 as a possible biomarker for genotoxins in the aquatic environment 1999 , 33, 177-184		40
97	A mini review of bisphenol A (BPA) effects on cancer-related cellular signaling pathways. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 8459-8467	5.1	39
96	Density-dependent processes in the life history of fishes: evidence from laboratory populations of zebrafish <i>Danio rerio</i> . <i>PLoS ONE</i> , 2012 , 7, e37550	3.7	39
95	Disruption of the Prostaglandin Metabolome and Characterization of the Pharmaceutical Exposome in Fish Exposed to Wastewater Treatment Works Effluent As Revealed by Nanoflow-Nanospray Mass Spectrometry-Based Metabolomics. <i>Environmental Science & Technology</i> , 2017 , 51, 616-624	10.3	38
94	Effects of advanced treatments of wastewater effluents on estrogenic and reproductive health impacts in fish. <i>Environmental Science & Technology</i> , 2010 , 44, 4348-54	10.3	38
93	Fipronil pesticide as a suspect in historical mass mortalities of honey bees. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 13033-13038	11.5	38
92	Are toxicological responses in laboratory (inbred) zebrafish representative of those in outbred (wild) populations? - A case study with an endocrine disrupting chemical. <i>Environmental Science & Technology</i> , 2011 , 45, 4166-72	10.3	37
91	The organophosphorous pesticide, fenitrothion, acts as an anti-androgen and alters reproductive behavior of the male three-spined stickleback, <i>Gasterosteus aculeatus</i> . <i>Ecotoxicology</i> , 2009 , 18, 122-33	2.9	36
90	ECOdrug: a database connecting drugs and conservation of their targets across species. <i>Nucleic Acids Research</i> , 2018 , 46, D930-D936	20.1	36

89	Probiotics and competitive exclusion of pathogens in shrimp aquaculture. <i>Reviews in Aquaculture</i> , 2021 , 13, 324-352	8.9	33
88	Transgenic fish systems and their application in ecotoxicology. <i>Critical Reviews in Toxicology</i> , 2015 , 45, 124-41	5.7	32
87	Functional distinctions associated with the diversity of sex steroid hormone receptors ESR and AR. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2018 , 184, 38-46	5.1	32
86	Concentrating mixtures of neuroactive pharmaceuticals and altered neurotransmitter levels in the brain of fish exposed to a wastewater effluent. <i>Science of the Total Environment</i> , 2018 , 621, 782-790	10.2	32
85	Population relevance of toxicant mediated changes in sex ratio in fish: An assessment using an individual-based zebrafish (<i>Danio rerio</i>) model. <i>Ecological Modelling</i> , 2014 , 280, 76-88	3	31
84	Bioavailability and Kidney Responses to Diclofenac in the Fathead Minnow (<i>Pimephales promelas</i>). <i>Environmental Science & Technology</i> , 2017 , 51, 1764-1774	10.3	30
83	Effects of the lipid regulating drug clofibrac acid on PPAR β -regulated gene transcript levels in common carp (<i>Cyprinus carpio</i>) at pharmacological and environmental exposure levels. <i>Aquatic Toxicology</i> , 2015 , 161, 127-37	5.1	30
82	Bioavailability of the imidazole antifungal agent clotrimazole and its effects on key biotransformation genes in the common carp (<i>Cyprinus carpio</i>). <i>Aquatic Toxicology</i> , 2014 , 152, 57-65	5.1	30
81	Do stressful conditions make adaptation difficult? Guppies in the oil-polluted environments of southern Trinidad. <i>Evolutionary Applications</i> , 2015 , 8, 854-70	4.8	30
80	Comparative breeding and behavioral responses to ethinylestradiol exposure in wild and laboratory maintained zebrafish (<i>Danio rerio</i>) populations. <i>Environmental Science & Technology</i> , 2012 , 46, 11377-83	10.3	30
79	Effects of pharmaceuticals on the expression of genes involved in detoxification in a carp primary hepatocyte model. <i>Environmental Science & Technology</i> , 2012 , 46, 6306-14	10.3	29
78	Estrogenic Mechanisms and Cardiac Responses Following Early Life Exposure to Bisphenol A (BPA) and Its Metabolite 4-Methyl-2,4-bis(p-hydroxyphenyl)pent-1-ene (MBP) in Zebrafish. <i>Environmental Science & Technology</i> , 2018 , 52, 6656-6665	10.3	28
77	Molecular mechanisms and tissue targets of brominated flame retardants, BDE-47 and TBBPA, in embryo-larval life stages of zebrafish (<i>Danio rerio</i>). <i>Aquatic Toxicology</i> , 2019 , 209, 99-112	5.1	27
76	Adoption of in vitro systems and zebrafish embryos as alternative models for reducing rodent use in assessments of immunological and oxidative stress responses to nanomaterials. <i>Critical Reviews in Toxicology</i> , 2018 , 48, 252-271	5.7	27
75	Cerium oxide nanoparticles induce oxidative stress in the sediment-dwelling amphipod <i>Corophium volutator</i> . <i>Nanotoxicology</i> , 2016 , 10, 480-7	5.3	23
74	Developmental impairment in eurasian dipper nestlings exposed to urban stream pollutants. <i>Environmental Toxicology and Chemistry</i> , 2014 , 33, 1315-23	3.8	23
73	4-dimensional functional profiling in the convulsant-treated larval zebrafish brain. <i>Scientific Reports</i> , 2017 , 7, 6581	4.9	22
72	Sensory systems and ionocytes are targets for silver nanoparticle effects in fish. <i>Nanotoxicology</i> , 2016 , 10, 1276-86	5.3	21

71	Persistent contaminants as potential constraints on the recovery of urban river food webs from gross pollution. <i>Water Research</i> , 2019 , 163, 114858	12.5	21
70	Establishment of estrogen receptor 1 (ESR1)-knockout medaka: ESR1 is dispensable for sexual development and reproduction in medaka, <i>Oryzias latipes</i> . <i>Development Growth and Differentiation</i> , 2017 , 59, 552-561	3	21
69	Development of a transient expression assay for detecting environmental oestrogens in zebrafish and medaka embryos. <i>BMC Biotechnology</i> , 2012 , 12, 32	3.5	21
68	Cloning, expression and functional characterization of carp, <i>Cyprinus carpio</i> , estrogen receptors and their differential activations by estrogens. <i>Journal of Applied Toxicology</i> , 2013 , 33, 41-9	4.1	20
67	Environmental chemicals active as human antiandrogens do not activate a stickleback androgen receptor but enhance a feminising effect of oestrogen in roach. <i>Aquatic Toxicology</i> , 2015 , 168, 48-59	5.1	20
66	An optimised experimental test procedure for measuring chemical effects on reproduction in the fathead minnow, <i>Pimephales promelas</i> . <i>Aquatic Toxicology</i> , 2007 , 81, 90-8	5.1	20
65	Tracing engineered nanomaterials in biological tissues using coherent anti-Stokes Raman scattering (CARS) microscopy - A critical review. <i>Nanotoxicology</i> , 2015 , 9, 928-39	5.3	18
64	Development and validation of a direct homologous quantitative sandwich ELISA for fathead minnow (<i>Pimephales promelas</i>) vitellogenin. <i>Aquatic Toxicology</i> , 2006 , 78, 202-6	5.1	18
63	The Evolution of Cooperation: Interacting Phenotypes among Social Partners. <i>American Naturalist</i> , 2017 , 189, 630-643	3.7	17
62	A restatement of the natural science evidence base on the effects of endocrine disrupting chemicals on wildlife. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019 , 286, 20182416	4.4	17
61	Developmental expression and modulation of the vitellogenin receptor in ovarian follicles of the rainbow trout, <i>Oncorhynchus mykiss</i> . <i>The Journal of Experimental Zoology</i> , 1994 , 269, 458-466		17
60	Evolution of estrogen receptors in ray-finned fish and their comparative responses to estrogenic substances. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2016 , 158, 189-197	5.1	15
59	A tiered assessment strategy for more effective evaluation of bioaccumulation of chemicals in fish. <i>Regulatory Toxicology and Pharmacology</i> , 2016 , 75, 20-6	3.4	15
58	Parentage outcomes in response to estrogen exposure are modified by social grouping in zebrafish. <i>Environmental Science & Technology</i> , 2009 , 43, 8400-5	10.3	15
57	High-Content and Semi-Automated Quantification of Responses to Estrogenic Chemicals Using a Novel Translucent Transgenic Zebrafish. <i>Environmental Science & Technology</i> , 2016 , 50, 6536-45	10.3	15
56	Evolution of non-kin cooperation: social assortment by cooperative phenotype in guppies. <i>Royal Society Open Science</i> , 2019 , 6, 181493	3.3	13
55	Ecotoxicological assessment of nanoparticle-containing acrylic copolymer dispersions in fairy shrimp and zebrafish embryos. <i>Environmental Science: Nano</i> , 2017 , 4, 1981-1997	7.1	13
54	Characterization of <i>Oryzias latipes</i> glucocorticoid receptors and their unique response to progestins. <i>Journal of Applied Toxicology</i> , 2015 , 35, 302-9	4.1	13

53	A practicable laboratory flow-through exposure system for assessing the health effects of effluents in fish. <i>Aquatic Toxicology</i> , 2008 , 88, 164-72	5.1	13
52	How do abiotic environmental conditions influence shrimp susceptibility to disease? A critical analysis focussed on White Spot Disease. <i>Journal of Invertebrate Pathology</i> , 2021 , 186, 107369	2.6	12
51	New insights into organ-specific oxidative stress mechanisms using a novel biosensor zebrafish. <i>Environment International</i> , 2019 , 133, 105138	12.9	12
50	Eurasian dipper eggs indicate elevated organohalogenated contaminants in urban rivers. <i>Environmental Science & Technology</i> , 2013 , 47, 8931-9	10.3	12
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