Charles R Tyler

List of Publications by Year
in descending order

202 papers	19,240 citations	10986 71 h-index	12272 133 g-index
205 all docs	205 docs citations	205 times ranked	16773 citing authors

#	Article	IF	Citations
1	Widespread Sexual Disruption in Wild Fish. Environmental Science & Technology, 1998, 32, 2498-2506.	10.0	1,723
2	Silver nanoparticles: Behaviour and effects in the aquatic environment. Environment International, 2011, 37, 517-531.	10.0	1,026
3	Egg quality in fish: what makes a good egg?. Reviews in Fish Biology and Fisheries, 1997, 7, 387-416.	4.9	638
4	Uptake and Retention of Microplastics by the Shore Crab <i>Carcinus maenas</i>. Environmental Science & Technology, 2014, 48, 8823-8830.	10.0	563
5	Long-Term Exposure to Environmental Concentrations of the Pharmaceutical Ethynylestradiol Causes Reproductive Failure in Fish. Environmental Health Perspectives, 2004, 112, 1725-1733.	6.0	545
6	Pharmaceuticals in the aquatic environment: A critical review of the evidence for health effects in fish. Critical Reviews in Toxicology, 2010, 40, 287-304.	3.9	466
7	Relative Potencies and Combination Effects of Steroidal Estrogens in Fish. Environmental Science & Technology, 2003, 37, 1142-1149.	10.0	427
8	Manufactured nanoparticles: their uptake and effects on fishâ€"a mechanistic analysis. Ecotoxicology, 2008, 17, 396-409.	2.4	385
9	Acute Toxicity, Teratogenic, and Estrogenic Effects of Bisphenol A and Its Alternative Replacements Bisphenol S, Bisphenol F, and Bisphenol AF in Zebrafish Embryo-Larvae. Environmental Science & Technology, 2017, 51, 12796-12805.	10.0	344
10	Effects of Aqueous Exposure to Silver Nanoparticles of Different Sizes in Rainbow Trout. Toxicological Sciences, 2010, 115, 521-534.	3.1	299
11	Microplastic ingestion by riverine macroinvertebrates. Science of the Total Environment, 2019, 646, 68-74.	8.0	293
12	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 (Oncorhynchus Mykiss)1. Biology of Reproduction, 1996, 54, 1375-1382.	2.7	291
13	Gene expression profiles revealing the mechanisms of anti-androgen- and estrogen-induced feminization in fish. Aquatic Toxicology, 2007, 81, 219-231.	4.0	272
14	Uptake and Biological Effects of Environmentally Relevant Concentrations of the Nonsteroidal Anti-inflammatory Pharmaceutical Diclofenac in Rainbow Trout (Oncorhynchus mykiss). Environmental Science & Technology, 2010, 44, 2176-2182.	10.0	267
15	Long-Term Temporal Changes in the Estrogenic Composition of Treated Sewage Effluent and Its Biological Effects on Fish. Environmental Science & Technology, 2000, 34, 1521-1528.	10.0	261
16	A catchmentâ€scale perspective of plastic pollution. Global Change Biology, 2019, 25, 1207-1221.	9.5	260
17	Bioavailability of Nanoscale Metal Oxides TiO₂, CeO₂, and ZnO to Fish. Environmental Science & Technology, 2010, 44, 1144-1151.	10.0	251
18	Toxicogenomics in Regulatory Ecotoxicology. Environmental Science & Technology, 2006, 40, 4055-4065.	10.0	247

#	Article	IF	Citations
19	Assessing the Biological Potency of Binary Mixtures of Environmental Estrogens using Vitellogenin Induction in Juvenile Rainbow Trout (Oncorhynchus mykiss). Environmental Science & Technology, 2001, 35, 2476-2481.	10.0	245
20	Exposure of Juvenile Roach (<i>Rutilus rutilus</i>) to Treated Sewage Effluent Induces Dose-Dependent and Persistent Disruption in Gonadal Duct Development. Environmental Science & Technology, 2001, 35, 462-470.	10.0	232
21	An in vivo testing system for endocrine disruptors in fish early life stages using induction of vitellogenin. Environmental Toxicology and Chemistry, 1999, 18, 337-347.	4.3	218
22	The Pathobiome in Animal and Plant Diseases. Trends in Ecology and Evolution, 2019, 34, 996-1008.	8.7	208
23	The Consequences of Feminization in Breeding Groups of Wild Fish. Environmental Health Perspectives, 2011, 119, 306-311.	6.0	199
24	Populations of a cyprinid fish are self-sustaining despite widespread feminization of males. BMC Biology, 2014, 12, 1.	3.8	199
25	Molecular Mechanisms of Toxicity of Silver Nanoparticles in Zebrafish Embryos. Environmental Science & Technology, 2013, 47, 8005-8014.	10.0	198
26	Endocrine disrupting chemicals and sexual behaviors in fish â€“ a critical review on effects and possible consequences. Critical Reviews in Toxicology, 2012, 42, 653-668.	3.9	193
27	Sexual disruption in a second species of wild cyprinid fish (the gudgeon,<i>Gobio gobio</i>) in United Kingdom Freshwaters. Environmental Toxicology and Chemistry, 2001, 20, 2841-2847.	4.3	190
28	Effects of atrazine on sex steroid dynamics, plasma vitellogenin concentration and gonad development in adult goldfish (Carassius auratus). Aquatic Toxicology, 2004, 66, 369-379.	4.0	169
29	Statistical Modeling Suggests that Antiandrogens in Effluents from Wastewater Treatment Works Contribute to Widespread Sexual Disruption in Fish Living in English Rivers. Environmental Health Perspectives, 2009, 117, 797-802.	6.0	163
30	Integrating human and environmental health in antibiotic risk assessment: A critical analysis of protection goals, species sensitivity and antimicrobial resistance. Environment International, 2017, 109, 155-169.	10.0	163
31	Dominance Hierarchies in Zebrafish (<i>Danio rerio</i>) and Their Relationship with Reproductive Success. Zebrafish, 2010, 7, 109-117.	1.1	159
32	Interspecies comparisons on the uptake and toxicity of silver and cerium dioxide nanoparticles. Environmental Toxicology and Chemistry, 2012, 31, 144-154.	4.3	154
33	Identifying Health Impacts of Exposure to Copper Using Transcriptomics and Metabolomics in a Fish Model. Environmental Science & Technology, 2010, 44, 820-826.	10.0	152
34	Changes in estrogenic and androgenic activities at different stages of treatment in wastewater treatment works. Environmental Toxicology and Chemistry, 2002, 21, 972-979.	4.3	150
35	Estrogenic potency of effluent from two sewage treatment works in the United Kingdom. Environmental Toxicology and Chemistry, 1999, 18, 932-937.	4.3	142
36	Window of sensitivity for the estrogenic effects of ethinylestradiol in early life-stages of fathead minnow, Pimephales promelas. Ecotoxicology, 2002, 11, 423-434.	2.4	140

#	Article	IF	Citations
37	Molecular Characterization of Putative Yolk Processing Enzymes and Their Expression During Oogenesis and Embryogenesis in Rainbow Trout (Oncorhynchus mykiss)1. Biology of Reproduction, 2001, 65, 1701-1709.	2.7	132
38	Evaluating antimicrobial resistance in the global shrimp industry. Reviews in Aquaculture, 2020, 12, 966-986.	9.0	132
39	Differential sensitivity of honey bees and bumble bees to a dietary insecticide (imidacloprid). Zoology, 2012, 115, 365-371.	1.2	128
40	Multiple molecular effect pathways of an environmental oestrogen in fish. Journal of Molecular Endocrinology, 2006, 37, 121-134.	2.5	127
41	Sexual Reprogramming and Estrogenic Sensitization in Wild Fish Exposed to Ethinylestradiol. Environmental Science & Technology, 2009, 43, 1219-1225.	10.0	119
42	Populationâ€level consequences for wild fish exposed to sublethal concentrations of chemicals â€“ a critical review. Fish and Fisheries, 2016, 17, 545-566.	5.3	119
43	Effects of silver and cerium dioxide micro- and nano-sized particles on Daphnia magna. Journal of Environmental Monitoring, 2011, 13, 1227.	2.1	118
44	Health Impacts of Estrogens in the Environment, Considering Complex Mixture Effects. Environmental Health Perspectives, 2007, 115, 1704-1710.	6.0	117
45	Bioassay-Directed Identification of Novel Antiandrogenic Compounds in Bile of Fish Exposed to Wastewater Effluents. Environmental Science & Technology, 2011, 45, 10660-10667.	10.0	115
46	Plasma Biomarkers in Fish Provide Evidence for Endocrine Modulation in the Elbe River, Germany. Environmental Science & Technology, 2002, 36, 2311-2321.	10.0	112
47	Nonylphenol Affects Gonadotropin Levels in the Pituitary Gland and Plasma of Female Rainbow Trout. Environmental Science & Technology, 2001, 35, 2909-2916.	10.0	110
48	Assessing the Sensitivity of Different Life Stages for Sexual Disruption in Roach (<i>Rutilus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 T Perspectives, 2005, 113, 1299-1307.	6.0	109
49	Roach, Sex, and Gender-Bending Chemicals: The Feminization of Wild Fish in English Rivers. BioScience, 2008, 58, 1051-1059.	4.9	103
50	Physiological and health consequences of social status in zebrafish (Danio rerio). Physiology and Behavior, 2010, 101, 576-587.	2.1	103
51	Pharmacology beyond the patient â€“ The environmental risks of human drugs. Environment International, 2019, 129, 320-332.	10.0	101
52	Effects of particle size and coating on nanoscale Ag and TiO₂exposure in zebrafish (<i>Danio rerio</i>) embryos. Nanotoxicology, 2013, 7, 1315-1324.	3.0	98
53	Estrogen-Induced Alterations in <i>amh</i> and <i>dmrt1</i> Expression Signal for Disruption in Male Sexual Development in the Zebrafish. Environmental Science & Technology, 2007, 41, 6305-6310.	10.0	96
54	High Doses of Intravenously Administered Titanium Dioxide Nanoparticles Accumulate in the Kidneys of Rainbow Trout but with no Observable Impairment of Renal Function. Toxicological Sciences, 2009, 109, 372-380.	3.1	96

#	Article	IF	Citations
55	An Environmental Estrogen Alters Reproductive Hierarchies, Disrupting Sexual Selection in Group-Spawning Fish. Environmental Science & Technology, 2008, 42, 5020-5025.	10.0	95
56	Endocrine disruption in aquatic systems: upâ€scaling research to address ecological consequences. Biological Reviews, 2018, 93, 626-641.	10.4	93
57	Gonadal transcriptome responses and physiological consequences of exposure to oestrogen in breeding zebrafish (Danio rerio). Aquatic Toxicology, 2007, 83, 134-142.	4.0	89
58	Imaging metal oxide nanoparticles in biological structures with CARS microscopy. Optics Express, 2008, 16, 3408.	3.4	89
59	Comparative responsiveness to natural and synthetic estrogens of fish species commonly used in the laboratory and field monitoring. Aquatic Toxicology, 2012, 109, 250-258.	4.0	88
60	Do hormoneâ€modulating chemicals impact on reproduction and development of wild amphibians?. Biological Reviews, 2015, 90, 1100-1117.	10.4	88
61	Development of an in vivo screening assay for estrogenic chemicals using juvenile rainbow trout (<i>Oncorhynchus mykiss</i>). Environmental Toxicology and Chemistry, 2000, 19, 2812-2820.	4.3	82
62	Molecular Characterization and Expression of two Ovarian Lipoprotein Receptors in the Rainbow Trout, Oncorhynchus mykiss 1. Biology of Reproduction, 1998, 58, 1146-1153.	2.7	79
63	Apparent underdiagnosis of Cerebrotendinous Xanthomatosis revealed by analysis of ~60,000 human exomes. Molecular Genetics and Metabolism, 2015, 116, 298-304.	1.1	79
64	Climate change and pollution speed declines in zebrafish populations. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1237-46.	7.1	79
65	Differing Species Responsiveness of Estrogenic Contaminants in Fish Is Conferred by the Ligand Binding Domain of the Estrogen Receptor. Environmental Science & Technology, 2014, 48, 5254-5263.	10.0	77
66	Altered Sexual Development in Roach (Rutilus rutilus) Exposed to Environmental Concentrations of the Pharmaceutical 17Î±-Ethinylestradiol and Associated Expression Dynamics of Aromatases and Estrogen Receptors. Toxicological Sciences, 2008, 106, 113-123.	3.1	76
67	Implications of Persistent Exposure to Treated Wastewater Effluent for Breeding in Wild Roach (<i>Rutilus rutilus</i>) Populations. Environmental Science & Technology, 2011, 45, 1673-1679.	10.0	75
68	Probiotics and competitive exclusion of pathogens in shrimp aquaculture. Reviews in Aquaculture, 2021, 13, 324-352.	9.0	74
69	Expression and Localization of Messenger Ribonucleic Acid for the Vitellogenin Receptor in Ovarian Follicles Throughout Oogenesis in the Rainbow Trout, Oncorhynchus mykiss1. Biology of Reproduction, 1999, 60, 1057-1068.	2.7	73
70	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 (Pimephales) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 132	1.8	73
71	Estrogenic Wastewater Treatment Works Effluents Reduce Egg Production in Fish. Environmental Science & Technology, 2009, 43, 2976-2982.	10.0	73
72	Characterization of cerium oxide nanoparticlesâ€"Part 1: Size measurements. Environmental Toxicology and Chemistry, 2012, 31, 983-993.	4.3	72

#	Article	IF	Citations
73	Associations between altered vitellogenin concentrations and adverse health effects in fathead minnow (Pimephales promelas). Aquatic Toxicology, 2007, 85, 176-183.	4.0	71
74	Hepatic Transcriptomic and Metabolomic Responses in the Stickleback (<i>Gasterosteus aculeatus</i>) Exposed to Environmentally Relevant Concentrations of Dibenzanthracene. Environmental Science & Technology, 2009, 43, 6341-6348.	10.0	71
75	Hepatic transcriptomic and metabolomic responses in the Stickleback (Gasterosteus aculeatus) exposed to ethinyl-estradiol. Aquatic Toxicology, 2010, 97, 174-187.	4.0	71
76	Sequestration of Zinc from Zinc Oxide Nanoparticles and Life Cycle Effects in the Sediment Dweller Amphipod <i>Corophium volutator</i>. Environmental Science & Technology, 2012, 46, 1128-1135.	10.0	71
77	Tracing Bioavailability of ZnO Nanoparticles Using Stable Isotope Labeling. Environmental Science & Technology, 2012, 46, 12137-12145.	10.0	71
78	Variability in measures of reproductive success in laboratory-kept colonies of zebrafish and implications for studies addressing population-level effects of environmental chemicals. Aquatic Toxicology, 2008, 87, 115-126.	4.0	69
79	Metabolomics Reveals Target and Off-Target Toxicities of a Model Organophosphate Pesticide to Roach (Rutilus rutilus): Implications for Biomonitoring. Environmental Science & Technology, 2011, 45, 3759-3767.	10.0	68
80	The development of a radioimmunoassay for carp, Cyprinus carpio, vitellogenin. Fish Physiology and Biochemistry, 1990, 8, 129-140.	2.3	65
81	A new approach for plasma (xeno)metabolomics based on solid-phase extraction and nanoflow liquid chromatography-nanoelectrospray ionisation mass spectrometry. Journal of Chromatography A, 2014, 1365, 72-85.	3.7	63
82	Adaptive capabilities and fitness consequences associated with pollution exposure in fish. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160042.	4.0	63
83	Route of exposure affects the oestrogenic response of fish to 4-tert-nonylphenol. Aquatic Toxicology, 2003, 65, 267-279.	4.0	62
84	Interactive effects of pesticide exposure and pathogen infection on bee healthÂâ€“Âa critical analysis. Biological Reviews, 2016, 91, 1006-1019.	10.4	62
85	Profiles and Some Initial Identifications of (Anti)Androgenic Compounds in Fish Exposed to Wastewater Treatment Works Effluents. Environmental Science & Technology, 2010, 44, 1137-1143.	10.0	61
86	Impact of environmental estrogens on Yfish considering the diversity of estrogen signaling. General and Comparative Endocrinology, 2013, 191, 190-201.	1.8	61
87	Biosensor Zebrafish Provide New Insights into Potential Health Effects of Environmental Estrogens. Environmental Health Perspectives, 2012, 120, 990-996.	6.0	60
88	Fipronil pesticide as a suspect in historical mass mortalities of honey bees. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 13033-13038.	7.1	60
89	Characterization of cerium oxide nanoparticlesâ€"Part 2: Nonsize measurements. Environmental Toxicology and Chemistry, 2012, 31, 994-1003.	4.3	58
90	Selectivity of protein sequestration by vitellogenic oocytes of the rainbow trout,Salmo gairdneri. The Journal of Experimental Zoology, 1988, 248, 199-206.	1.4	57

#	Article	IF	Citations
91	The Xenometabolome and Novel Contaminant Markers in Fish Exposed to a Wastewater Treatment Works Effluent. Environmental Science & Technology, 2012, 46, 9080-9088.	10.0	57
92	Environmental Estrogen-Induced Alterations of Male Aggression and Dominance Hierarchies in Fish: A Mechanistic Analysis. Environmental Science & Technology, 2012, 46, 3472-3479.	10.0	56
93	ECOdrug: a database connecting drugs and conservation of their targets across species. Nucleic Acids Research, 2018, 46, D930-D936.	14.5	56
94	A mini review of bisphenol A (BPA) effects on cancer-related cellular signaling pathways. Environmental Science and Pollution Research, 2019, 26, 8459-8467.	5.3	56
95	Functional Associations between Two Estrogen Receptors, Environmental Estrogens, and Sexual Disruption in the Roach (<i>Rutilus rutilus</i>). Environmental Science & Technology, 2007, 41, 3368-3374.	10.0	54
96	Understanding the Molecular Basis for Differences in Responses of Fish Estrogen Receptor Subtypes to Environmental Estrogens. Environmental Science & Technology, 2015, 49, 7439-7447.	10.0	53
97	Gasâ€"liquid chromatographyâ€"tandem mass spectrometry methodology for the quantitation of estrogenic contaminants in bile of fish exposed to wastewater treatment works effluents and from wild populations. Journal of Chromatography A, 2010, 1217, 112-118.	3.7	51
98	Molecular mechanisms and tissue targets of brominated flame retardants, BDE-47 and TBBPA, in embryo-larval life stages of zebrafish (Danio rerio). Aquatic Toxicology, 2019, 209, 99-112.	4.0	50
99	The purification and partial characterization of carp, Cyprinus carpio, vitellogenin. Fish Physiology and Biochemistry, 1990, 8, 111-120.	2.3	48
100	Density-Dependent Processes in the Life History of Fishes: Evidence from Laboratory Populations of Zebrafish Danio rerio. PLoS ONE, 2012, 7, e37550.	2.5	48
101	Transgenic fish systems and their application in ecotoxicology. Critical Reviews in Toxicology, 2015, 45, 124-141.	3.9	48
102	Functional distinctions associated with the diversity of sex steroid hormone receptors ESR and AR. Journal of Steroid Biochemistry and Molecular Biology, 2018, 184, 38-46.	2.5	48
103	Impacts of Early Life Exposure to Estrogen on Subsequent Breeding Behavior and Reproductive Success in Zebrafish. Environmental Science & Technology, 2010, 44, 6481-6487.	10.0	47
104	Follicle-Stimulating Hormone and Its Î± and Î² Subunits in Rainbow Trout (Oncorhynchus mykiss): Purification, Characterization, Development of Specific Radioimmunoassays, and Their Seasonal Plasma and Pituitary Concentrations in Females1. Biology of Reproduction, 2001, 65, 288-294.	2.7	46
105	Environmental Health Impacts of Equine Estrogens Derived from Hormone Replacement Therapy. Environmental Science & Technology, 2009, 43, 3897-3904.	10.0	46
106	Bioavailability and Kidney Responses to Diclofenac in the Fathead Minnow (<i>Pimephales) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td	10.0	46
107	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. Environmental Science & Technology, 2017, 51, 616-624.	10.0	46
108	Adoption of<i>in vitro</i>systems and zebrafish embryos as alternative models for reducing rodent use in assessments of immunological and oxidative stress responses to nanomaterials. Critical Reviews in Toxicology, 2018, 48, 252-271.	3.9	46

#	Article	IF	Citations
109	Concentrating mixtures of neuroactive pharmaceuticals and altered neurotransmitter levels in the brain of fish exposed to a wastewater effluent. Science of the Total Environment, 2018, 621, 782-790.	8.0	46
110	Fish p53 as a possible biomarker for genotoxins in the aquatic environment. , 1999, 33, 177-184.		45
111	Estrogenic Mechanisms and Cardiac Responses Following Early Life Exposure to Bisphenol A (BPA) and Its Metabolite 4-Methyl-2,4-bis(<i>p</i>-hydroxyphenyl)pent-1-ene (MBP) in Zebrafish. Environmental Science & Technology, 2018, 52, 6656-6665.	10.0	45
112	Gene Expression Profiling for Understanding Chemical Causation of Biological Effects for Complex Mixtures: A Case Study on Estrogens. Environmental Science & Technology, 2007, 41, 8187-8194.	10.0	42
113	The organophosphorous pesticide, fenitrothion, acts as an anti-androgen and alters reproductive behavior of the male three-spined stickleback, Gasterosteus aculeatus. Ecotoxicology, 2009, 18, 122-133.	2.4	41
114	Effects of Advanced Treatments of Wastewater Effluents on Estrogenic and Reproductive Health Impacts in Fish. Environmental Science & Technology, 2010, 44, 4348-4354.	10.0	41
115	Are Toxicological Responses in Laboratory (Inbred) Zebrafish Representative of Those in Outbred (Wild) Populations? â˜" A Case Study with an Endocrine Disrupting Chemical. Environmental Science & Technology, 2011, 45, 4166-4172.	10.0	41
116	How do abiotic environmental conditions influence shrimp susceptibility to disease? A critical analysis focussed on White Spot Disease. Journal of Invertebrate Pathology, 2021, 186, 107369.	3.2	41
117	Population relevance of toxicant mediated changes in sex ratio in fish: An assessment using an individual-based zebrafish (Danio rerio) model. Ecological Modelling, 2014, 280, 76-88.	2.5	39
118	Do stressful conditions make adaptation difficult? Guppies in the oilâ€polluted environments of southern Trinidad. Evolutionary Applications, 2015, 8, 854-870.	3.1	39
119	4-dimensional functional profiling in the convulsant-treated larval zebrafish brain. Scientific Reports, 2017, 7, 6581.	3.3	39
120	Effects of the lipid regulating drug clofibric acid on PPARÎ±-regulated gene transcript levels in common carp (Cyprinus carpio) at pharmacological and environmental exposure levels. Aquatic Toxicology, 2015, 161, 127-137.	4.0	37
121	A restatement of the natural science evidence base on the effects of endocrine disrupting chemicals on wildlife. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20182416.	2.6	37
122	Effects of Pharmaceuticals on the Expression of Genes Involved in Detoxification in a Carp Primary Hepatocyte Model. Environmental Science & Technology, 2012, 46, 6306-6314.	10.0	36
123	Effects of environmental enrichment on survivorship, growth, sex ratio and behaviour in laboratory maintained zebrafish <scp><i>Danio rerio</i></scp>. Journal of Fish Biology, 2019, 94, 86-95.	1.6	36
124	Bioavailability of the imidazole antifungal agent clotrimazole and its effects on key biotransformation genes in the common carp (Cyprinus carpio). Aquatic Toxicology, 2014, 152, 57-65.	4.0	35
125	Persistent contaminants as potential constraints on the recovery of urban river food webs from gross pollution. Water Research, 2019, 163, 114858.	11.3	35
126	Establishment of estrogen receptor 1 (ESR1)â€knockout medaka: <scp>ESR</scp>1 is dispensable for sexual development and reproduction in medaka, <i>Oryzias latipes</i>. Development Growth and Differentiation, 2017, 59, 552-561.	1.5	32

#	Article	IF	Citations
127	Comparative Breeding and Behavioral Responses to Ethinylestradiol Exposure in Wild and Laboratory Maintained Zebrafish (<i>Danio rerio</i>) Populations. Environmental Science & Technology, 2012, 46, 11377-11383.	10.0	31
128	Developmental impairment in eurasian dipper nestlings exposed to urban stream pollutants. Environmental Toxicology and Chemistry, 2014, 33, 1315-1323.	4.3	30
129	Evolution of non-kin cooperation: social assortment by cooperative phenotype in guppies. Royal Society Open Science, 2019, 6, 181493.	2.4	30
130	Development and validation of a direct homologous quantitative sandwich ELISA for fathead minnow (Pimephales promelas) vitellogenin. Aquatic Toxicology, 2006, 78, 202-206.	4.0	28
131	Cerium oxide nanoparticles induce oxidative stress in the sediment-dwelling amphipodCorophium volutator. Nanotoxicology, 2016, 10, 480-487.	3.0	27
132	The Evolution of Cooperation: Interacting Phenotypes among Social Partners. American Naturalist, 2017, 189, 630-643.	2.1	27
133	Sensory systems and ionocytes are targets for silver nanoparticle effects in fish. Nanotoxicology, 2016, 10, 1276-1286.	3.0	26
134	Environmental chemicals active as human antiandrogens do not activate a stickleback androgen receptor but enhance a feminising effect of oestrogen in roach. Aquatic Toxicology, 2015, 168, 48-59.	4.0	25
135	Antioxidant properties of dietary supplements of free and nanoencapsulated silymarin and their ameliorative effects on silver nanoparticles induced oxidative stress in Nile tilapia (Oreochromis) Tj ETQq1 1 0.784314 rgBT /Overlock	3.4	25
136	Global variation in freshwater physicoâ€chemistry and its influence on chemical toxicity in aquatic wildlife. Biological Reviews, 2021, 96, 1528-1546.	10.4	25
137	Development of a transient expression assay for detecting environmental oestrogens in zebrafish and medaka embryos. BMC Biotechnology, 2012, 12, 32.	3.3	24
138	Developmental expression and modulation of the vitellogenin receptor in ovarian follicles of the rainbow trout,Oncorhynchus mykiss. The Journal of Experimental Zoology, 1994, 269, 458-466.	1.4	23
139	New insights into organ-specific oxidative stress mechanisms using a novel biosensor zebrafish. Environment International, 2019, 133, 105138.	10.0	23
140	Cloning, expression and functional characterization of carp, <i>Cyprinus carpio</i>, estrogen receptors and their differential activations by estrogens. Journal of Applied Toxicology, 2013, 33, 41-49.	2.8	22
141	An optimised experimental test procedure for measuring chemical effects on reproduction in the fathead minnow, Pimephales promelas. Aquatic Toxicology, 2007, 81, 90-98.	4.0	21
142	Tracing engineered nanomaterials in biological tissues using coherent anti-Stokes Raman scattering (CARS) microscopy â€" A critical review. Nanotoxicology, 2015, 9, 928-939.	3.0	21
143	Biological Traits and the Transfer of Persistent Organic Pollutants through River Food Webs. Environmental Science & Technology, 2019, 53, 13246-13256.	10.0	21
144	Variability in cyanobacteria sensitivity to antibiotics and implications for environmental risk assessment. Science of the Total Environment, 2019, 695, 133804.	8.0	20

#	Article	IF	Citations
145	Stakeholder perspectives on the importance of water quality and other constraints for sustainable mariculture. Environmental Science and Policy, 2020, 114, 506-518.	4.9	20
146	A tiered assessment strategy for more effective evaluation of bioaccumulation of chemicals in fish. Regulatory Toxicology and Pharmacology, 2016, 75, 20-26.	2.7	19
147	Raising awareness of antimicrobial resistance in rural aquaculture practice in Bangladesh through digital communications: a pilot study. Global Health Action, 2019, 12, 1734735.	1.9	19
148	Neutrophil activation by nanomaterials inÂvitro: comparing strengths and limitations of primary human cells with those of an immortalized (HL-60) cell line. Nanotoxicology, 2021, 15, 1-20.	3.0	19
149	Impacts of land use on water quality and the viability of bivalve shellfish mariculture in the UK: A case study and review for SW England. Environmental Science and Policy, 2021, 126, 122-131.	4.9	19
150	Improving zebrafish laboratory welfare and scientific research through understanding their natural history. Biological Reviews, 2022, 97, 1038-1056.	10.4	19
151	Evolution of estrogen receptors in ray-finned fish and their comparative responses to estrogenic substances. Journal of Steroid Biochemistry and Molecular Biology, 2016, 158, 189-197.	2.5	18
152	Expression dynamics of genes in the hypothalamic-pituitary-thyroid (HPT) cascade and their responses to 3,3â€²,5-triiodo-l-thyronine (T3) highlights potential vulnerability to thyroid-disrupting chemicals in zebrafish (Danio rerio) embryo-larvae. Aquatic Toxicology, 2020, 225, 105547.	4.0	18
153	High-Content and Semi-Automated Quantification of Responses to Estrogenic Chemicals Using a Novel Translucent Transgenic Zebrafish. Environmental Science & Technology, 2016, 50, 6536-6545.	10.0	17
154	Functional brain imaging in larval zebrafish for characterising the effects of seizurogenic compounds acting via a range of pharmacological mechanisms. British Journal of Pharmacology, 2021, 178, 2671-2689.	5.4	16
155	Are synthetic glucocorticoids in the aquatic environment a risk to fish?. Environment International, 2022, 162, 107163.	10.0	16
156	Parentage Outcomes in Response to Estrogen Exposure are Modified by Social Grouping in Zebrafish. Environmental Science & Technology, 2009, 43, 8400-8405.	10.0	15
157	Ecotoxicological assessment of nanoparticle-containing acrylic copolymer dispersions in fairy shrimp and zebrafish embryos. Environmental Science: Nano, 2017, 4, 1981-1997.	4.3	15
158	Environment and food web structure interact to alter the trophic magnification of persistent chemicals across river ecosystems. Science of the Total Environment, 2020, 717, 137271.	8.0	15
159	A practicable laboratory flow-through exposure system for assessing the health effects of effluents in fish. Aquatic Toxicology, 2008, 88, 164-172.	4.0	14
160	Production without medicalisation: Risk practices and disease in Bangladesh aquaculture. Geographical Journal, 2021, 187, 39-50.	3.1	14
161	Eurasian Dipper Eggs Indicate Elevated Organohalogenated Contaminants in Urban Rivers. Environmental Science & Technology, 2013, 47, 130717151648003.	10.0	13
162	Characterization of <i>Oryzias latipes</i> glucocorticoid receptors and their unique response to progestins. Journal of Applied Toxicology, 2015, 35, 302-309.	2.8	13

#	Article	IF	Citations
163	Development of a common carp (Cyprinus carpio) pregnane X receptor (cPXR) transactivation reporter assay and its activation by azole fungicides and pharmaceutical chemicals. Toxicology in Vitro, 2017, 41, 114-122.	2.4	13
164	Quantifying habitat provisioning at macroalgal cultivation sites. Reviews in Aquaculture, 2022, 14, 1671-1694.	9.0	13
165	Growth rate during early life affects sexual differentiation in roach (Rutilus rutilus). Environmental Biology of Fishes, 2009, 85, 277-284.	1.0	12
166	Hepatic transcriptional responses to copper in the three-spined stickleback are affected by their pollution exposure history. Aquatic Toxicology, 2017, 184, 26-36.	4.0	12
167	Effects of Exposure to WwTW Effluents over Two Generations on Sexual Development and Breeding in Roach <i>Rutilus rutilus</i>. Environmental Science & Technology, 2015, 49, 12994-13002.	10.0	11
168	Effects of neonicotinoid exposure on molecular and physiological indicators of honey bee immunocompetence. Apidologie, 2018, 49, 196-208.	2.0	11
169	The fate of cerium oxide nanoparticles in sediments and their routes of uptake in a freshwater worm. Nanotoxicology, 2019, 13, 894-908.	3.0	11
170	AN IN VIVO TESTING SYSTEM FOR ENDOCRINE DISRUPTORS IN FISH EARLY LIFE STAGES USING INDUCTION OF VITELLOGENIN. Environmental Toxicology and Chemistry, 1999, 18, 337.	4.3	11
171	The <i>vas::egfp</i> transgenic zebrafish: A practical model for studies on the molecular mechanisms by which environmental estrogens affect gonadal sex differentiation. Environmental Toxicology and Chemistry, 2014, 33, 602-605.	4.3	10
172	Assessing population impacts of toxicant-induced disruption of breeding behaviours using an individual-based model for the three-spined stickleback. Ecological Modelling, 2018, 387, 107-117.	2.5	10
173	Fish toxicogenomics. Advances in Experimental Biology, 2008, 2, 75-325.	0.1	9
174	Effects of intracerebroventricular administered fluoxetine on cardio-ventilatory functions in rainbow trout (Oncorhynchus mykiss). General and Comparative Endocrinology, 2014, 205, 176-184.	1.8	9
175	Ecotoxicology of Nanomaterials in Aquatic Systems. Frontiers of Nanoscience, 2015, 8, 3-45.	0.6	9
176	The roach (Rutilus rutilus) as a sentinel for assessing endocrine disruption. Environmental Sciences: an International Journal of Environmental Physiology and Toxicology, 2007, 14, 235-53.	0.1	9
177	Investigation of Nitrification and Nitrogen Removal from Centrate in a Submerged Attachedâ€Growth Bioreactor. Water Environment Research, 2008, 80, 222-228.	2.7	8
178	ESTROGENIC POTENCY OF EFFLUENT FROM TWO SEWAGE TREATMENT WORKS IN THE UNITED KINGDOM. Environmental Toxicology and Chemistry, 1999, 18, 932.	4.3	8
179	Endocrine disruption. General and Comparative Endocrinology, 2007, 153, 13-14.	1.8	7
180	CHANGES IN ESTROGENIC AND ANDROGENIC ACTIVITIES AT DIFFERENT STAGES OF TREATMENT IN WASTEWATER TREATMENT WORKS. Environmental Toxicology and Chemistry, 2002, 21, 972.	4.3	7

#	Article	IF	Citations
181	Harmful Algal Blooms and their impacts on shellfish mariculture follow regionally distinct patterns of water circulation in the western English Channel during the 2018 heatwave. Harmful Algae, 2022, 111, 102166.	4.8	7
182	Monoclonal antibody enzyme-linked immunosorbent assay to quantify vitellogenin for studies on environmental estrogens in the rainbow trout (Oncorhynchus mykiss). Environmental Toxicology and Chemistry, 2002, 21, 47-54.	4.3	7
183	A newly developed genetic sex marker and its application to understanding chemically induced feminisation in roach (<i>Rutilus rutilus</i>). Molecular Ecology Resources, 2020, 20, 1007-1022.	4.8	6
184	Seasonal variation in oestrogenic potency and biological effects of wastewater treatment works effluents assessed using ERE-GFP transgenic zebrafish embryo-larvae. Aquatic Toxicology, 2021, 237, 105864.	4.0	6
185	Co-exposure of zinc oxide nanoparticles and multi-layer graphenes in blackfish (Capoeta fusca): evaluation of lethal, behavioural, and histopathological effects. Ecotoxicology, 2022, 31, 425.	2.4	6
186	A laboratory investigation into features of morphology and physiology for their potential to predict reproductive success in male frogs. PLoS ONE, 2020, 15, e0241625.	2.5	5
187	Development of methods to detect occurrence and effects of endocrineâ€disrupting chemicals: Fueling a fundamental shift in regulatory ecotoxicology. Environmental Toxicology and Chemistry, 2013, 32, 2661-2662.	4.3	4
188	Capturing ecology in modeling approaches applied to environmental risk assessment of endocrine active chemicals in fish. Critical Reviews in Toxicology, 2018, 48, 109-120.	3.9	4
189	Feminizing effects of ethinylestradiol in roach (Rutilus rutilus) populations with different estrogenic pollution exposure histories. Aquatic Toxicology, 2022, 249, 106229.	4.0	4
190	Ontogeny and Dynamics of the Gonadal Development, Embryogenesis, and Gestation in <i>Xenotoca eiseni</i> (Cyprinodontiformes, Goodeidae). Sexual Development, 2019, 13, 297-310.	2.0	3
191	Geographic Range and Natural Distribution. , 2020, , 41-56.		3
192	Characterization of G proteinâ€coupled estrogen receptors in Japanese medaka, <scp><i>Oryzias latipes</i></scp>. Journal of Applied Toxicology, 2021, 41, 1390-1399.	2.8	3
193	Investigation into Adaptation in Genes Associated with Response to Estrogenic Pollution in Populations of Roach (<i>Rutilus rutilus</i>) Living in English Rivers. Environmental Science & Technology, 2020, 54, 15935-15945.	10.0	3
194	Estrogens regulate early embryonic development of the olfactory sensory system via estrogen-responsive glia. Development (Cambridge), 2022, 149, .	2.5	3
195	Application of Transgenic Zebrafish Models for Studying the Effects of Estrogenic Endocrine Disrupting Chemicals on Embryonic Brain Development. Frontiers in Pharmacology, 2022, 13, 718072.	3.5	3
196	Shipbuilding Docks as Experimental Systems for Realistic Assessments of Anthropogenic Stressors on Marine Organisms. BioScience, 2017, 67, 853-859.	4.9	2
197	Development and Application of a Microplate Assay for Toxicity Testing on Aquatic Cyanobacteria. Environmental Toxicology and Chemistry, 2020, 39, 705-720.	4.3	2
198	Understanding Set Points - The Key To Victory In Tennis and Plant Optimization. Proceedings of the Water Environment Federation, 2001, 2001, 236-248.	0.0	1

#	Article	IF	Citations
199	The Dirty Dozen: Design, Construction, and Operational History of Deer Island's EggShaped Digesters. Proceedings of the Water Environment Federation, 2002, 2002, 734-756.	0.0	0
200	Aeration Study Optimization at the Deer Island Treatment Plant for the Greater Metropolitan Area of Boston, Massachusetts. Proceedings of the Water Environment Federation, 2014, 2014, 6625-6644.	0.0	0
201	Lou Guillette: Scientist and communicator par excellence. Molecular Reproduction and Development, 2015, 82, Fmi-Fmv.	2.0	0
202	Effects of maternal exposure to environmentally relevant concentrations of 17Î±-ethinyloestradiol in a live bearing freshwater fish, Xenotoca eiseni (Cyprinodontiformes, Goodeidae). Aquatic Toxicology, 2021, 232, 105746.	4.0	0