Stewart Owen

List of Publications by Year
in descending order

40 papers	2,385 citations	172443 29 h-index	289230 40 g-index
40 all docs	40 docs citations	40 times ranked	3127 citing authors

#	Article	IF	Citations
1	The Read-Across Hypothesis and Environmental Risk Assessment of Pharmaceuticals. Environmental Science & Technology, 2013, 47, 11384-11395.	10.0	187
2	Comparative physiology, pharmacology and toxicology of Î²-blockers: Mammals versus fish. Aquatic Toxicology, 2007, 82, 145-162.	4.0	168
3	Validation of a larval zebrafish locomotor assay for assessing the seizure liability of early-stage development drugs. Journal of Pharmacological and Toxicological Methods, 2008, 57, 176-187.	0.7	167
4	The Role of Omics in the Application of Adverse Outcome Pathways for Chemical Risk Assessment. Toxicological Sciences, 2017, 158, 252-262.	3.1	161
5	Do Fish Perceive Anaesthetics as Aversive?. PLoS ONE, 2013, 8, e73773.	2.5	128
6	Quantitative Cross-Species Extrapolation between Humans and Fish: The Case of the Anti-Depressant Fluoxetine. PLoS ONE, 2014, 9, e110467.	2.5	116
7	Pharmacology beyond the patient â€" The environmental risks of human drugs. Environment International, 2019, 129, 320-332.	10.0	101
8	Low level infection by eye fluke, Diplostomum spp., affects the vision of three-spined sticklebacks, Gasterosteus aculeatus. Journal of Fish Biology, 1993, 42, 803-806.	1.6	98
9	Uptake of propranolol, a cardiovascular pharmaceutical, from water into fish plasma and its effects on growth and organ biometry. Aquatic Toxicology, 2009, 93, 217-224.	4.0	89
10	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
11	International survey on the use and welfare of zebrafish <i>Danio rerio</i> in research. Journal of Fish Biology, 2017, 90, 1891-1905.	1.6	79
12	Key issues concerning environmental enrichment for laboratory-held fish species. Laboratory Animals, 2009, 43, 107-120.	1.0	64
13	A multi-endpoint in vivo larval zebrafish (Danio rerio) model for the assessment of integrated cardiovascular function. Journal of Pharmacological and Toxicological Methods, 2014, 69, 30-38.	0.7	63
14	Direct Measurements of Oxygen Gradients in Spheroid Culture System Using Electron Parametric Resonance Oximetry. PLoS ONE, 2016, 11, e0149492.	2.5	63
15	Prediction of bioconcentration factors in fish and invertebrates using machine learning. Science of the Total Environment, 2019, 648, 80-89.	8.0	60
16	Pharmaceuticals in the freshwater invertebrate, Gammarus pulex, determined using pulverised liquid extraction, solid phase extraction and liquid chromatographyâ€"tandem mass spectrometry. Science of the Total Environment, 2015, 511, 153-160.	8.0	59
17	ECOdrug: a database connecting drugs and conservation of their targets across species. Nucleic Acids Research, 2018, 46, D930-D936.	14.5	56
18	A primary fish gill cell culture model to assess pharmaceutical uptake and efflux: Evidence for passive and facilitated transport. Aquatic Toxicology, 2015, 159, 127-137.	4.0	49

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19	Does structural enrichment for toxicology studies improve zebrafish welfare?. Applied Animal Behaviour Science, 2012, 139, 143-150.	1.9	45
20	Pharmaceutical Metabolism in Fish: Using a 3-D Hepatic In Vitro Model to Assess Clearance. PLoS ONE, 2017, 12, e0168837.	2.5	44
21	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
22	Towards a more representative in vitro method for fish ecotoxicology: morphological and biochemical characterisation of three-dimensional spheroidal hepatocytes. Ecotoxicology, 2012, 21, 2419-2429.	2.4	41
23	The First Attempt at Non-Linear in Silico Prediction of Sampling Rates for Polar Organic Chemical Integrative Samplers (POCIS). Environmental Science & Technology, 2016, 50, 7973-7981.	10.0	38
24	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
25	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
26	Machine Learning for Environmental Toxicology: A Call for Integration and Innovation. Environmental Science & Technology, 2018, 52, 12953-12955.	10.0	34
27	Protein synthesis, nitrogen excretion and long-term growth of juvenilePleuronectes flesus. Journal of Fish Biology, 1998, 53, 272-284.	1.6	34
28	Vision of a near future: Bridging the human healthâ€"environment divide. Toward an integrated strategy to understand mechanisms across species for chemical safety assessment. Toxicology in Vitro, 2020, 62, 104692.	2.4	33
29	Assessing the reliability of uptake and elimination kinetics modelling approaches for estimating bioconcentration factors in the freshwater invertebrate, Gammarus pulex. Science of the Total Environment, 2016, 547, 396-404.	8.0	30
30	Procedures for the reconstruction, primary culture and experimental use of rainbow trout gill epithelia. Nature Protocols, 2016, 11, 490-498.	12.0	28
31	<i>In vivo</i> and <i>in vitro</i> liver and gill EROD activity in rainbow trout (<i>Oncorhynchus) Tj ETQq1 1 0.784314 rgBT /Overlock	4.0	26
32	Functional xenobiotic metabolism and efflux transporters in trout hepatocyte spheroid cultures. Toxicology Research, 2015, 4, 494-507.	2.1	26
33	Application of the rainbow trout derived intestinal cell line (RTgutGC) for ecotoxicological studies: molecular and cellular responses following exposure to copper. Ecotoxicology, 2017, 26, 1117-1133.	2.4	26
34	<i>In vitro</i>models of xenobiotic metabolism in trout for use in environmental bioaccumulation studies. Xenobiotica, 2013, 43, 421-431.	1.1	17
35	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
36	Assessing the impact of benzo[a]pyrene with the in vitro fish gut model: An integrated approach for eco-genotoxicological studies. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2018, 826, 53-64.	1.7	13

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37	The value of repeating studies and multiple controls: replicated 28â€day growth studies of rainbow trout exposed to clofibric acid. Environmental Toxicology and Chemistry, 2010, 29, 2831-2839.	4.3	11
38	Establishment and long-term maintenance of primary intestinal epithelial cells cultured from the rainbow trout,<i>Oncorhynchus mykiss</i>. Biology Open, 2018, 7, .	1.2	10
39	Investigations to extend viability of a rainbow trout primary gill cell culture. Ecotoxicology, 2017, 26, 1314-1326.	2.4	8
40	Individuals Maintain Similar Rates of Protein Synthesis over Time on the Same Plane of Nutrition under Controlled Environmental Conditions. PLoS ONE, 2016, 11, e0152239.	2.5	4