

# Stewart Owen

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

2,385  
citations

172457

29  
h-index

289244

40  
g-index

40  
all docs

40  
docs citations

40  
times ranked

3127  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vision of a near future: Bridging the human health–environment divide. Toward an integrated strategy to understand mechanisms across species for chemical safety assessment. <i>Toxicology in Vitro</i> , 2020, 62, 104692.	2.4	33
2	Prediction of bioconcentration factors in fish and invertebrates using machine learning. <i>Science of the Total Environment</i> , 2019, 648, 80-89.	8.0	60
3	Pharmacology beyond the patient – The environmental risks of human drugs. <i>Environment International</i> , 2019, 129, 320-332.	10.0	101
4	Establishment and long-term maintenance of primary intestinal epithelial cells cultured from the rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Biology Open</i> , 2018, 7, .	1.2	10
5	Assessing the impact of benzo[ a ]pyrene with the in vitro fish gut model: An integrated approach for eco-genotoxicological studies. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2018, 826, 53-64.	1.7	13
6	Machine Learning for Environmental Toxicology: A Call for Integration and Innovation. <i>Environmental Science &amp; Technology</i> , 2018, 52, 12953-12955.	10.0	34
7	ECOdrug: a database connecting drugs and conservation of their targets across species. <i>Nucleic Acids Research</i> , 2018, 46, D930-D936.	14.5	56
8	International survey on the use and welfare of zebrafish <i>Danio rerio</i> in research. <i>Journal of Fish Biology</i> , 2017, 90, 1891-1905.	1.6	79
9	Application of the rainbow trout derived intestinal cell line (RTgutGC) for ecotoxicological studies: molecular and cellular responses following exposure to copper. <i>Ecotoxicology</i> , 2017, 26, 1117-1133.	2.4	26
10	Investigations to extend viability of a rainbow trout primary gill cell culture. <i>Ecotoxicology</i> , 2017, 26, 1314-1326.	2.4	8
11	The Role of Omics in the Application of Adverse Outcome Pathways for Chemical Risk Assessment. <i>Toxicological Sciences</i> , 2017, 158, 252-262.	3.1	161
12	Pharmaceutical Metabolism in Fish: Using a 3-D Hepatic In Vitro Model to Assess Clearance. <i>PLoS ONE</i> , 2017, 12, e0168837.	2.5	44
13	High-Content and Semi-Automated Quantification of Responses to Estrogenic Chemicals Using a Novel Translucent Transgenic Zebrafish. <i>Environmental Science &amp; Technology</i> , 2016, 50, 6536-6545.	10.0	17
14	The First Attempt at Non-Linear in Silico Prediction of Sampling Rates for Polar Organic Chemical Integrative Samplers (POCIS). <i>Environmental Science &amp; Technology</i> , 2016, 50, 7973-7981.	10.0	38
15	Assessing the reliability of uptake and elimination kinetics modelling approaches for estimating bioconcentration factors in the freshwater invertebrate, <i>Gammarus pulex</i> . <i>Science of the Total Environment</i> , 2016, 547, 396-404.	8.0	30
16	Procedures for the reconstruction, primary culture and experimental use of rainbow trout gill epithelia. <i>Nature Protocols</i> , 2016, 11, 490-498.	12.0	28
17	Direct Measurements of Oxygen Gradients in Spheroid Culture System Using Electron Parametric Resonance Oximetry. <i>PLoS ONE</i> , 2016, 11, e0149492.	2.5	63
18	Individuals Maintain Similar Rates of Protein Synthesis over Time on the Same Plane of Nutrition under Controlled Environmental Conditions. <i>PLoS ONE</i> , 2016, 11, e0152239.	2.5	4

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19	Pharmaceuticals in the freshwater invertebrate, <i>Gammarus pulex</i> , determined using pulverised liquid extraction, solid phase extraction and liquid chromatography-tandem mass spectrometry. <i>Science of the Total Environment</i> , 2015, 511, 153-160.	8.0	59
20	Functional xenobiotic metabolism and efflux transporters in trout hepatocyte spheroid cultures. <i>Toxicology Research</i> , 2015, 4, 494-507.	2.1	26
21	A primary fish gill cell culture model to assess pharmaceutical uptake and efflux: Evidence for passive and facilitated transport. <i>Aquatic Toxicology</i> , 2015, 159, 127-137.	4.0	49
22	Effects of the lipid regulating drug clofibric acid on PPAR $\alpha$ -regulated gene transcript levels in common carp ( <i>Cyprinus carpio</i> ) at pharmacological and environmental exposure levels. <i>Aquatic Toxicology</i> , 2015, 161, 127-137.	4.0	37
23	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.	7.1	79
24	Quantitative Cross-Species Extrapolation between Humans and Fish: The Case of the Anti-Depressant Fluoxetine. <i>PLoS ONE</i> , 2014, 9, e110467.	2.5	116
25	A multi-endpoint in vivo larval zebrafish ( <i>Danio rerio</i> ) model for the assessment of integrated cardiovascular function. <i>Journal of Pharmacological and Toxicological Methods</i> , 2014, 69, 30-38.	0.7	63
26	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.	4.0	35
27	The Read-Across Hypothesis and Environmental Risk Assessment of Pharmaceuticals. <i>Environmental Science &amp; Technology</i> , 2013, 47, 11384-11395.	10.0	187
28	<i>In vitro</i> models of xenobiotic metabolism in trout for use in environmental bioaccumulation studies. <i>Xenobiotica</i> , 2013, 43, 421-431.	1.1	17
29	Do Fish Perceive Anaesthetics as Aversive?. <i>PLoS ONE</i> , 2013, 8, e73773.	2.5	128
30	Towards a more representative in vitro method for fish ecotoxicology: morphological and biochemical characterisation of three-dimensional spheroidal hepatocytes. <i>Ecotoxicology</i> , 2012, 21, 2419-2429.	2.4	41
31	<i>In vivo</i> and <i>in vitro</i> liver and gill EROD activity in rainbow trout ( <i>Oncorhynchus</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock	4.0	26
32	Does structural enrichment for toxicology studies improve zebrafish welfare?. <i>Applied Animal Behaviour Science</i> , 2012, 139, 143-150.	1.9	45
33	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 &amp; Technology</i> , 2011, 45, 4166-4172.	10.0	41
34	The value of repeating studies and multiple controls: replicated 28-day growth studies of rainbow trout exposed to clofibric acid. <i>Environmental Toxicology and Chemistry</i> , 2010, 29, 2831-2839.	4.3	11
35	Key issues concerning environmental enrichment for laboratory-held fish species. <i>Laboratory Animals</i> , 2009, 43, 107-120.	1.0	64
36	Uptake of propranolol, a cardiovascular pharmaceutical, from water into fish plasma and its effects on growth and organ biometry. <i>Aquatic Toxicology</i> , 2009, 93, 217-224.	4.0	89

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37	Validation of a larval zebrafish locomotor assay for assessing the seizure liability of early-stage development drugs. <i>Journal of Pharmacological and Toxicological Methods</i> , 2008, 57, 176-187.	0.7	167
38	Comparative physiology, pharmacology and toxicology of $\beta$ -blockers: Mammals versus fish. <i>Aquatic Toxicology</i> , 2007, 82, 145-162.	4.0	168
39	Protein synthesis, nitrogen excretion and long-term growth of juvenile <i>Pleuronectes flesus</i> . <i>Journal of Fish Biology</i> , 1998, 53, 272-284.	1.6	34
40	Low level infection by eye fluke, <i>Diplostomum</i> spp., affects the vision of three-spined sticklebacks, <i>Gasterosteus aculeatus</i> . <i>Journal of Fish Biology</i> , 1993, 42, 803-806.	1.6	98