

David Boyle

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,191
citations

331670

21
h-index

377865

34
g-index

41
all docs

41
docs citations

41
times ranked

1704
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of manufactured nanomaterials on fishes: a target organ and body systems physiology approach. <i>Journal of Fish Biology</i> , 2011, 79, 821-853.	1.6	92
2	Polyvinyl chloride (PVC) plastic fragments release Pb additives that are bioavailable in zebrafish. <i>Environmental Pollution</i> , 2020, 263, 114422.	7.5	89
3	Subtle alterations in swimming speed distributions of rainbow trout exposed to titanium dioxide nanoparticles are associated with gill rather than brain injury. <i>Aquatic Toxicology</i> , 2013, 126, 116-127.	4.0	84
4	Natural Arsenic Contaminated Diets Perturb Reproduction in Fish. <i>Environmental Science & Technology</i> , 2008, 42, 5354-5360.	10.0	82
5	Aquatic toxicity of manufactured nanomaterials: challenges and recommendations for future toxicity testing. <i>Environmental Chemistry</i> , 2014, 11, 207.	1.5	69
6	Do polyethylene microplastic beads alter the intestinal uptake of Ag in rainbow trout (<i>Oncorhynchus</i>)? <i>Aquatic Toxicology</i> , 2014, 152, 195-204.	7.5	60
7	Effects of metal nanoparticles on the lateral line system and behaviour in early life stages of zebrafish (<i>Danio rerio</i>). <i>Aquatic Toxicology</i> , 2014, 152, 318-323.	4.0	52
8	Impaired behavioural response to alarm substance in rainbow trout exposed to copper nanoparticles. <i>Aquatic Toxicology</i> , 2014, 152, 195-204.	4.0	51
9	Demonstrating the translocation of nanoplastics across the fish intestine using palladium-doped polystyrene in a salmon gut-sac. <i>Environment International</i> , 2022, 159, 106994.	10.0	46
10	Bioaccumulation and oxidative stress responses measured in the estuarine ragworm (<i>Nereis</i>). <i>Environmental Pollution</i> , 2013, 182, 70-79.	7.5	45
11	The role of acid-sensing ion channels (ASICs) in epithelial Na ⁺ uptake in adult zebrafish (<i>Danio rerio</i>). <i>Aquatic Toxicology</i> , 2016, 174, 188-198.	1.7	42
12	Critical comparison of intravenous injection of TiO ₂ nanoparticles with waterborne and dietary exposures concludes minimal environmentally-relevant toxicity in juvenile rainbow trout <i>Oncorhynchus mykiss</i> . <i>Environmental Pollution</i> , 2013, 182, 70-79.	7.5	40
13	Sublethal effects of copper sulphate compared to copper nanoparticles in rainbow trout (<i>Oncorhynchus mykiss</i>) at low pH: physiology and metal accumulation. <i>Aquatic Toxicology</i> , 2016, 174, 188-198.	4.0	39
14	Mechanisms of Cl ⁻ uptake in rainbow trout: Cloning and expression of slc26a6, a prospective Cl ⁻ /HCO ₃ ⁻ exchanger. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2015, 180, 43-50.	1.8	34
15	Toxicities of copper oxide nanomaterial and copper sulphate in early life stage zebrafish: Effects of pH and intermittent pulse exposure. <i>Ecotoxicology and Environmental Safety</i> , 2020, 190, 109985.	6.0	33
16	Humic acid ameliorates nanoparticle-induced developmental toxicity in zebrafish. <i>Environmental Science: Nano</i> , 2017, 4, 127-137.	4.3	29
17	Dietary exposure to silver nitrate compared to two forms of silver nanoparticles in rainbow trout: bioaccumulation potential with minimal physiological effects. <i>Environmental Science: Nano</i> , 2019, 6, 1393-1405.	4.3	29
18	Dietary selenomethionine influences the accumulation and depuration of dietary methylmercury in zebrafish (<i>Danio rerio</i>). <i>Aquatic Toxicology</i> , 2015, 158, 211-217.	4.0	27

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19	Aqueous Hg ²⁺ associates with TiO ₂ nanoparticles according to particle size, changes particle agglomeration, and becomes less bioavailable to zebrafish. <i>Aquatic Toxicology</i> , 2016, 174, 242-246.	4.0	23
20	Effects of silver nanoparticles in early life-stage zebrafish are associated with particle dissolution and the toxicity of soluble silver. <i>NanoImpact</i> , 2018, 12, 1-8.	4.5	22
21	Development of a suitable detection method for silver nanoparticles in fish tissue using single particle ICP-MS. <i>Environmental Science: Nano</i> , 2019, 6, 3388-3400.	4.3	21
22	Exposure to Pb-halide perovskite nanoparticles can deliver bioavailable Pb but does not alter endogenous gut microbiota in zebrafish. <i>Science of the Total Environment</i> , 2020, 715, 136941.	8.0	21
23	Use of an exposure chamber to maintain aqueous phase nanoparticle dispersions for improved toxicity testing in fish. <i>Environmental Toxicology and Chemistry</i> , 2015, 34, 583-588.	4.3	20
24	Bioavailability of a natural lead-contaminated invertebrate diet to zebrafish. <i>Environmental Toxicology and Chemistry</i> , 2010, 29, 708-714.	4.3	17
25	Minimal effects of waterborne exposure to single-walled carbon nanotubes on behaviour and physiology of juvenile rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Aquatic Toxicology</i> , 2014, 146, 154-164.	4.0	17
26	Physiological response to a metal-contaminated invertebrate diet in zebrafish: Importance of metal speciation and regulation of metal transport pathways. <i>Aquatic Toxicology</i> , 2011, 105, 21-28.	4.0	16
27	An assessment of the dietary bioavailability of silver nanomaterials in rainbow trout using an <i>ex vivo</i> gut sac technique. <i>Environmental Science: Nano</i> , 2019, 6, 646-660.	4.3	16
28	Characterization of developmental Na ⁺ uptake in rainbow trout larvae supports a significant role for Nhe3b. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2016, 201, 30-36.	1.8	11
29	Polymer-Coated Metal-Oxide Nanoparticles Inhibit IgE Receptor Binding, Cellular Signaling, and Degranulation in a Mast Cell-like Cell Line. <i>Advanced Science</i> , 2015, 2, 1500104.	11.2	8
30	Rosette Nanotubes Alter IgE-Mediated Degranulation in the Rat Basophilic Leukemia (RBL)-2H3 Cell Line. <i>Toxicological Sciences</i> , 2015, 148, 108-120.	3.1	8
31	The bioaccumulation testing strategy for nanomaterials: correlations with particle properties and a meta-analysis of <i>in vitro</i> fish alternatives to <i>in vivo</i> fish tests. <i>Environmental Science: Nano</i> , 2022, 9, 684-701.	4.3	7
32	Intravenous injection of unfunctionalized carbon-based nanomaterials confirms the minimal toxicity observed in aqueous and dietary exposures in juvenile rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Environmental Pollution</i> , 2018, 232, 191-199.	7.5	5
33	The effects of rosette nanotubes with different functionalizations on channel catfish (<i>Ictalurus Tj</i>) ETQq1 1 0.784314 rgBT /Overlock 10 4.3	4.3	4
34	Comparison of the dietary bioavailability of copper sulphate and copper oxide nanomaterials in <i>ex vivo</i> gut sacs of rainbow trout: effects of low pH and amino acids in the lumen. <i>Environmental Science: Nano</i> , 2020, 7, 1967-1979.	4.3	4
35	The bioaccumulation testing strategy for manufactured nanomaterials: physico-chemical triggers and read across from earthworms in a meta-analysis. <i>Environmental Science: Nano</i> , 2021, 8, 3167-3185.	4.3	4
36	Dietary exposure to copper sulphate compared to a copper oxide nanomaterial in rainbow trout: bioaccumulation with minimal physiological effects. <i>Environmental Science: Nano</i> , 2021, 8, 2297-2309.	4.3	3

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37	Quantification of particulate Ag in rainbow trout organs following dietary exposure to silver nitrate, or two forms of engineered silver nanoparticles. <i>Environmental Science: Nano</i> , 2021, 8, 1642-1653.	4.3	3
38	Tolerance of Atlantic salmon (<i>Salmo salar</i>) to dietborne endosulfan assessed by haematology, biochemistry, histology and growth. <i>Aquaculture Nutrition</i> , 2010, 16, 549-558.	2.7	1
39	Carbon nanotubes diminish IgE-mediated degranulation in the rat basophilic leukemia (RBL)-2H3 cell line. <i>NanoImpact</i> , 2018, 9, 31-41.	4.5	1
40	Polymer-coated TiO ₂ nanoparticles bioaccumulate, immunoactivate and suppress pathogenic <i>Mycobacterium chelonae</i> clearance when intravenously injected into goldfish (<i>Carassius auratus L.</i>). <i>Environmental Science: Nano</i> , 2021, 8, 1910-1926.	4.3	1