

# Nicolas Bury

## List of Publications by Year in descending order

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Version: 2024-02-01

76  
papers

3,775  
citations

156536

32  
h-index

150775

59  
g-index

80  
all docs

80  
docs citations

80  
times ranked

4658  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multicompartment and cross-species monitoring of contaminants of emerging concern in an estuarine habitat. <i>Environmental Pollution</i> , 2021, 270, 116300.	3.7	22
2	Developing <i>in vitro</i> models to assess fish gill excretion of emerging contaminants. <i>Analytical Methods</i> , 2021, 13, 1470-1478.	1.3	5
3	Effect of Water pH on the Uptake of Acidic (Ibuprofen) and Basic (Propranolol) Drugs in a Fish Gill Cell Culture Model. <i>Environmental Science &amp; Technology</i> , 2021, 55, 6848-6856.	4.6	13
4	Effects of Habitat Restoration on Fish Communities in Urban Streams. <i>Water (Switzerland)</i> , 2021, 13, 2170.	1.2	4
5	The zebrafish <i>Znt1</i> mutant reveals roles of zinc transporter-1a in embryonic development. <i>Journal of Trace Elements in Medicine and Biology</i> , 2020, 60, 126496.	1.5	10
6	Use of X-ray micro-computed tomography to study the moult cycle of the freshwater amphipod <i>Gammarus pulex</i> . <i>Zoology</i> , 2020, 143, 125833.	0.6	3
7	Hatching gland development and hatching in zebrafish embryos: A role for zinc and its transporters <i>Zip10</i> and <i>Znt1a</i> . <i>Biochemical and Biophysical Research Communications</i> , 2020, 528, 698-705.	1.0	18
8	Prediction of bioconcentration factors in fish and invertebrates using machine learning. <i>Science of the Total Environment</i> , 2019, 648, 80-89.	3.9	60
9	Sublethal exposure to copper suppresses the ability to acclimate to hypoxia in a model fish species. <i>Aquatic Toxicology</i> , 2019, 217, 105325.	1.9	14
10	Biomonitoring of pesticides, pharmaceuticals and illicit drugs in a freshwater invertebrate to estimate toxic or effect pressure. <i>Environment International</i> , 2019, 129, 595-606.	4.8	83
11	Influence of urban river restoration on nitrogen dynamics at the sediment-water interface. <i>PLoS ONE</i> , 2019, 14, e0212690.	1.1	8
12	Co-exposure to polystyrene plastic beads and polycyclic aromatic hydrocarbon contaminants in fish gill (RT <sub>gill</sub> -W1) and intestinal (RT <sub>gut</sub> -GC) epithelial cells derived from rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Environmental Science &amp; Technology</i> , 2019, 53, 1576-1584.	4.6	14
13	The Use of Molecular Descriptors To Model Pharmaceutical Uptake by a Fish Primary Gill Cell Culture Epithelium. <i>Environmental Science &amp; Technology</i> , 2019, 53, 1576-1584.	4.6	14
14	A review of the pharmaceutical exposome in aquatic fauna. <i>Environmental Pollution</i> , 2018, 239, 129-146.	3.7	189
15	Machine Learning for Environmental Toxicology: A Call for Integration and Innovation. <i>Environmental Science &amp; Technology</i> , 2018, 52, 12953-12955.	4.6	34
16	Uptake, biotransformation and elimination of selected pharmaceuticals in a freshwater invertebrate measured using liquid chromatography tandem mass spectrometry. <i>Chemosphere</i> , 2017, 183, 389-400.	4.2	31
17	Regulation of plasma glucose and sulfate excretion in Pacific hagfish, <i>Eptatretus stoutii</i> is not mediated by 11-deoxycortisol. <i>General and Comparative Endocrinology</i> , 2017, 247, 107-115.	0.8	11
18	Do polyethylene microplastic beads alter the intestinal uptake of Ag in rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Environmental Science &amp; Technology</i> , 2017, 51, 200-206.	3.7	60

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19	Considering aspects of the 3Rs principles within experimental animal biology. <i>Journal of Experimental Biology</i> , 2017, 220, 3007-3016.	0.8	157
20	The evolution, structure and function of the ray finned fish (Actinopterygii) glucocorticoid receptors. <i>General and Comparative Endocrinology</i> , 2017, 251, 4-11.	0.8	19
21	Hypoxia Suppressed Copper Toxicity during Early Development in Zebrafish Embryos in a Process Mediated by the Activation of the HIF Signaling Pathway. <i>Environmental Science &amp; Technology</i> , 2016, 50, 4502-4512.	4.6	31
22	Lagos lagoon sediment organic extracts and polycyclic aromatic hydrocarbons induce embryotoxic, teratogenic and genotoxic effects in <i>Danio rerio</i> (zebrafish) embryos. <i>Environmental Science and Pollution Research</i> , 2016, 23, 14489-14501.	2.7	47
23	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.	4.6	38
24	Targeted metabolomics of <i>Gammarus pulex</i> following controlled exposures to selected pharmaceuticals in water. <i>Science of the Total Environment</i> , 2016, 562, 777-788.	3.9	36
25	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.	3.9	30
26	Procedures for the reconstruction, primary culture and experimental use of rainbow trout gill epithelia. <i>Nature Protocols</i> , 2016, 11, 490-498.	5.5	28
27	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.	3.9	59
28	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.	1.9	49
29	Bioaccumulation of arsenic and silver by the caddisfly larvae <i>Hydropsyche siltalai</i> and <i>H. pellucidula</i> : A biodynamic modeling approach. <i>Aquatic Toxicology</i> , 2015, 161, 196-207.	1.9	28
30	Environmental monitoring of urban streams using a primary fish gill cell culture system (FIGCS). <i>Ecotoxicology and Environmental Safety</i> , 2015, 120, 279-285.	2.9	18
31	Influence of polyethylene microplastic beads on the uptake and localization of silver in zebrafish ( <i>Danio rerio</i> ). <i>Environmental Pollution</i> , 2015, 206, 73-79.	3.7	202
32	Cytotoxic and genotoxic responses of the RTgill-W1 fish cells in combination with the yeast oestrogen screen to determine the sediment quality of Lagos lagoon, Nigeria. <i>Mutagenesis</i> , 2015, 30, 117-127.	1.0	25
33	Inhibition of potential uptake pathways for silver nanoparticles in the estuarine snail <i>Peringia ulvae</i> . <i>Nanotoxicology</i> , 2015, 9, 493-501.	1.6	44
34	Biodynamic modelling of the bioaccumulation of trace metals (Ag, As and Zn) by an infaunal estuarine invertebrate, the clam <i>Scrobicularia plana</i> . <i>Aquatic Toxicology</i> , 2014, 154, 121-130.	1.9	39
35	Gill cell culture systems as models for aquatic environmental monitoring. <i>Journal of Experimental Biology</i> , 2014, 217, 639-650.	0.8	55
36	A primary Fish Gill Cell System (FIGCS) for environmental monitoring of river waters. <i>Aquatic Toxicology</i> , 2014, 154, 184-192.	1.9	32

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37	Copper and zinc detoxification in <i>Gammarus pulex</i> (L.). <i>Journal of Experimental Biology</i> , 2012, 215, 822-832.	0.8	18
38	Evidence for a divergence in function between two glucocorticoid receptors from a basal teleost. <i>BMC Evolutionary Biology</i> , 2012, 12, 137.	3.2	19
39	Differential tolerance of two <i>Gammarus pulex</i> populations transplanted from different metallogenic regions to a polymetal gradient. <i>Aquatic Toxicology</i> , 2011, 102, 95-103.	1.9	53
40	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.	1.9	16
41	Molecular determinants of hormone sensitivity in rainbow trout glucocorticoid receptors 1 and 2. <i>Molecular and Cellular Endocrinology</i> , 2011, 333, 181-189.	1.6	21
42	The effect of metal pollution on the population genetic structure of brown trout ( <i>Salmo trutta</i> L.) residing in the River Hayle, Cornwall, UK. <i>Environmental Pollution</i> , 2011, 159, 3595-3603.	3.7	42
43	Bioavailability of a natural lead-contaminated invertebrate diet to zebrafish. <i>Environmental Toxicology and Chemistry</i> , 2010, 29, 708-714.	2.2	17
44	Mapping of AF1 transactivation domains in duplicated rainbow trout glucocorticoid receptors. <i>Journal of Molecular Endocrinology</i> , 2010, 45, 391-404.	1.1	10
45	Differential uptake and oxidative stress response in zebrafish fed a single dose of the principal copper and zinc enriched sub-cellular fractions of <i>Gammarus pulex</i> . <i>Aquatic Toxicology</i> , 2010, 99, 466-472.	1.9	10
46	Effect of elevated dietary copper on Cu-transport protein expression and localisation and metal status of zebrafish. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2009, 153, S78-S79.	0.8	2
47	The effects of metal pollution on the population genetic traits of brown trout ( <i>Salmo trutta</i> L.) living in the River Hayle, Cornwall, UK. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2009, 153, S93.	0.8	0
48	Chromosomal genes conferring tolerance to heavy metal (Ag) toxicity. <i>The Environmentalist</i> , 2009, 29, 85-92.	0.7	1
49	An in vitro method to assess toxicity of waterborne metals to fish. <i>Toxicology and Applied Pharmacology</i> , 2008, 230, 67-77.	1.3	46
50	Stress and innate immunity in carp: Corticosteroid receptors and pro-inflammatory cytokines. <i>Molecular Immunology</i> , 2008, 46, 70-79.	1.0	93
51	Corticosteroid receptors involved in stress regulation in common carp, <i>Cyprinus carpio</i> . <i>Journal of Endocrinology</i> , 2008, 198, 403-417.	1.2	152
52	Natural Arsenic Contaminated Diets Perturb Reproduction in Fish. <i>Environmental Science &amp; Technology</i> , 2008, 42, 5354-5360.	4.6	82
53	Cortisol stimulates the zinc signaling pathway and expression of metallothioneins and ZnT1 in rainbow trout gill epithelial cells. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 294, R623-R629.	0.9	15
54	The A/B Domain of the Teleost Glucocorticoid Receptors Influences Partial Nuclear Localization in the Absence of Hormone. <i>Endocrinology</i> , 2008, 149, 4567-4576.	1.4	11

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55	Short-term exposure to waterborne free silver has acute effects on membrane current of <i>Xenopus</i> oocytes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 317-323.	1.4	9
56	Influence of Culture Conditions on Metal-Induced Responses in a Cultured Rainbow Trout Gill Epithelium. <i>Environmental Science &amp; Technology</i> , 2007, 41, 6505-6513.	4.6	22
57	The gills as an important uptake route for the essential nutrient iron in freshwater rainbow trout <i>Oncorhynchus mykiss</i> . <i>Journal of Fish Biology</i> , 2007, 71, 115-128.	0.7	77
58	Evolution of the corticosteroid receptor signalling pathway in fish. <i>General and Comparative Endocrinology</i> , 2007, 153, 47-56.	0.8	188
59	Bioaccumulation. , 2007, , 55-87.		2
60	The changes to apical silver membrane uptake, and basolateral membrane silver export in the gills of rainbow trout ( <i>Oncorhynchus mykiss</i> ) on exposure to sublethal silver concentrations. <i>Aquatic Toxicology</i> , 2005, 72, 135-145.	1.9	12
61	Intestinal zinc uptake in freshwater rainbow trout: evidence for apical pathways associated with potassium efflux and modified by calcium. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2004, 1663, 214-221.	1.4	15
62	Nutritive metal uptake in teleost fish. <i>Journal of Experimental Biology</i> , 2003, 206, 11-23.	0.8	407
63	Zinc uptake across the apical membrane of freshwater rainbow trout intestine is mediated by high affinity, low affinity, and histidine-facilitated pathways. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2003, 1614, 211-219.	1.4	53
64	Iron acquisition by teleost fish. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2003, 135, 97-105.	1.3	70
65	Waterborne iron acquisition by a freshwater teleost fish, zebrafish <i>Danio rerio</i> . <i>Journal of Experimental Biology</i> , 2003, 206, 3529-3535.	0.8	42
66	Influence of Chloride and Metals on Silver Bioavailability to Atlantic Salmon ( <i>Salmo salar</i> ) and Rainbow Trout ( <i>Oncorhynchus mykiss</i> ) Yolk-Sac Fry. <i>Environmental Science &amp; Technology</i> , 2002, 36, 2884-2888.	4.6	33
67	Derivation of a toxicity-based model to predict how water chemistry influences silver toxicity to invertebrates. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2002, 133, 259-270.	1.3	28
68	Binding and movement of silver in the intestinal epithelium of a marine teleost fish, the European flounder ( <i>Platichthys flesus</i> ). <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2002, 133, 125-135.	1.3	10
69	Physiological impact of salinity increase at organism and red blood cell levels in the European flounder ( <i>Platichthys flesus</i> ). <i>Journal of Experimental Marine Biology and Ecology</i> , 2002, 274, 159-174.	0.7	23
70	A mineralocorticoid-like receptor in the rainbow trout, <i>Oncorhynchus mykiss</i> : cloning and characterization of its steroid binding domain. <i>Steroids</i> , 2000, 65, 319-328.	0.8	124
71	Mechanism of branchial apical silver uptake by rainbow trout is via the proton-coupled Na <sup>+</sup> channel. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1999, 277, R1385-R1391.	0.9	89
72	Effects of altering freshwater chemistry on physiological responses of rainbow trout to silver exposure. <i>Environmental Toxicology and Chemistry</i> , 1999, 18, 49-55.	2.2	94

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73	Effects of chloride, calcium, and dissolved organic carbon on silver toxicity: Comparison between rainbow trout and fathead minnows. <i>Environmental Toxicology and Chemistry</i> , 1999, 18, 56-62.	2.2	96
74	Cortisol protects against copper induced necrosis and promotes apoptosis in fish gill chloride cells in vitro. <i>Aquatic Toxicology</i> , 1998, 40, 193-202.	1.9	80
75	In vivo and in vitro intestinal transport of 3H-microcystin-LR, a cyanobacterial toxin, in rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Aquatic Toxicology</i> , 1998, 42, 139-148.	1.9	67
76	The effects of the cyanobacterium <i>Microcystis aeruginosa</i> , the cyanobacterial hepatotoxin microcystin-LR, and ammonia on growth rate and ionic regulation of brown trout. <i>Journal of Fish Biology</i> , 1995, 46, 1042-1054.	0.7	60