

# Carol Bucking

## List of Publications by Year in descending order

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55  
papers

1,729  
citations

257450

24  
h-index

289244

40  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1526  
citing authors

#	ARTICLE	IF	CITATIONS
1	Seasonal shifts in the insect gut microbiome are concurrent with changes in cold tolerance and immunity. <i>Functional Ecology</i> , 2018, 32, 2357-2368.	3.6	105
2	The skin of fish as a transport epithelium: a review. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2013, 183, 877-891.	1.5	102
3	The effect of postprandial changes in pH along the gastrointestinal tract on the distribution of ions between the solid and fluid phases of chyme in rainbow trout. <i>Aquaculture Nutrition</i> , 2009, 15, 282-296.	2.7	93
4	Communication of Radiation-Induced Stress or Bystander Signals between Fish in Vivo. <i>Environmental Science &amp; Technology</i> , 2006, 40, 6859-6864.	10.0	92
5	The alkaline tide and ammonia excretion after voluntary feeding in freshwater rainbow trout. <i>Journal of Experimental Biology</i> , 2008, 211, 2533-2541.	1.7	87
6	Water dynamics in the digestive tract of the freshwater rainbow trout during the processing of a single meal. <i>Journal of Experimental Biology</i> , 2006, 209, 1883-1893.	1.7	86
7	Osmoregulation, ionoregulation and acid-base regulation by the gastrointestinal tract after feeding in the elasmobranch ( <i>Squalus acanthias</i> ). <i>Journal of Experimental Biology</i> , 2007, 210, 1335-1349.	1.7	85
8	Toxicity of dissolved Cu, Zn, Ni and Cd to developing embryos of the blue mussel ( <i>Mytilus trossolus</i> ) and the protective effect of dissolved organic carbon. <i>Comparative Biochemistry and Physiology Part C: Toxicology and Pharmacology</i> , 2009, 149, 340-348.	2.6	77
9	Acid-base responses to feeding and intestinal Cl <sup>-</sup> uptake in freshwater- and seawater-acclimated killifish, <i>Fundulus heteroclitus</i> , an agastric euryhaline teleost. <i>Journal of Experimental Biology</i> , 2010, 213, 2681-2692.	1.7	65
10	Evidence for a protective response by the gill proteome of rainbow trout exposed to X-ray induced bystander signals. <i>Proteomics</i> , 2007, 7, 4171-4180.	2.2	63
11	Gastrointestinal processing of Na <sup>+</sup> , Cl <sup>-</sup> , and K <sup>+</sup> during digestion: implications for homeostatic balance in freshwater rainbow trout. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 291, R1764-R1772.	1.8	62
12	The alkaline tide goes out and the nitrogen stays in after feeding in the dogfish shark, <i>Squalus acanthias</i> . <i>Respiratory Physiology and Neurobiology</i> , 2007, 159, 163-170.	1.6	60
13	Gastrointestinal transport of Ca <sup>2+</sup> and Mg <sup>2+</sup> during the digestion of a single meal in the freshwater rainbow trout. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2007, 177, 349-360.	1.5	49
14	Adaptations to <i>in situ</i> feeding: novel nutrient acquisition pathways in an ancient vertebrate. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 3096-3101.	2.6	47
15	Renal function in the freshwater rainbow trout ( <i>Oncorhynchus mykiss</i> ) following acute and prolonged exposure to waterborne nickel. <i>Aquatic Toxicology</i> , 2005, 72, 119-133.	4.0	43
16	Pre-exposure to Waterborne Nickel Downregulates Gastrointestinal Nickel Uptake in Rainbow Trout: Indirect Evidence for Nickel Essentiality. <i>Environmental Science &amp; Technology</i> , 2008, 42, 1359-1364.	10.0	42
17	Environmental and nutritional regulation of expression and function of two peptide transporter (PepT1) isoforms in a euryhaline teleost. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2012, 161, 379-387.	1.8	42
18	Post-prandial metabolic alkalosis in the seawater-acclimated trout: the alkaline tide comes in. <i>Journal of Experimental Biology</i> , 2009, 212, 2159-2166.	1.7	39

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19	A broader look at ammonia production, excretion, and transport in fish: a review of impacts of feeding and the environment. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2017, 187, 1-18.	1.5	38
20	Copper toxicity in the spiny dogfish ( <i>Squalus acanthias</i> ): Urea loss contributes to the osmoregulatory disturbance. <i>Aquatic Toxicology</i> , 2007, 84, 133-141.	4.0	29
21	The role of the kidney in compensating the alkaline tide, electrolyte load, and fluid balance disturbance associated with feeding in the freshwater rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2010, 156, 74-83.	1.8	29
22	The role of feeding in salt and water balance. <i>Fish Physiology</i> , 2010, 30, 165-212.	0.8	28
23	Digestion of a single meal affects gene expression of ion and ammonia transporters and glutamine synthetase activity in the gastrointestinal tract of freshwater rainbow trout. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2012, 182, 341-350.	1.5	28
24	Assimilation of water and dietary ions by the gastrointestinal tract during digestion in seawater-acclimated rainbow trout. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2011, 181, 615-630.	1.5	27
25	Digestion under Duress: Nutrient Acquisition and Metabolism during Hypoxia in the Pacific Hagfish. <i>Physiological and Biochemical Zoology</i> , 2011, 84, 607-617.	1.5	20
26	Immunohistochemical localization of urea and ammonia transporters in two confamilial fish species, the ureotelic gulf toadfish ( <i>Opsanus beta</i> ) and the ammoniotelic plainfin midshipman ( <i>Porichthys</i> )	1.0	19
27	Sperm performance under hypoxic conditions in the intertidal fish <i>Porichthys notatus</i> . <i>Canadian Journal of Zoology</i> , 2009, 87, 464-469.	1.0	19
28	Characterization of dietary Ni uptake in the rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Aquatic Toxicology</i> , 2009, 93, 205-216.	4.0	18
29	Postcopulatory consequences of female mate choice in a fish with alternative reproductive tactics. <i>Behavioral Ecology</i> , 2016, 27, 312-320.	2.2	18
30	Renal regulation of plasma glucose in the freshwater rainbow trout. <i>Journal of Experimental Biology</i> , 2005, 208, 2731-2739.	1.7	17
31	Diet influences salinity preference of an estuarine fish, the killifish <i>Fundulus heteroclitus</i> . <i>Journal of Experimental Biology</i> , 2012, 215, 1965-1974.	1.7	17
32	Gastrointestinal assimilation of Cu during digestion of a single meal in the freshwater rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2006, 143, 394-401.	2.6	15
33	Characterisation of l-alanine and glycine absorption across the gut of an ancient vertebrate. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2011, 181, 765-771.	1.5	15
34	Nitrogen metabolism of the intestine during digestion in a teleost fish, the plainfin midshipman ( <i>Porichthys notatus</i> ). <i>Journal of Experimental Biology</i> , 2013, 216, 2821-32.	1.7	15
35	The role of intestinal bacteria in ammonia detoxification ability of teleost fish. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	15
36	Waste Nitrogen Metabolism and Excretion in Zebrafish Embryos: Effects of Light, Ammonia, and Nicotinamide. <i>Journal of Experimental Zoology</i> , 2013, 319, 391-403.	1.2	12

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37	Divergent Hypoxia Tolerance in Adult Males and Females of the Plainfin Midshipman ( <i>Porichthys</i> )	1.5	12
38	A waterborne chemical cue from Gulf toadfish, <i>Opsanus beta</i> , prompts pulsatile urea excretion in conspecifics. <i>Physiology and Behavior</i> , 2017, 171, 92-99.	2.1	11
39	Feeding and Digestion in Elasmobranchs: Tying Diet and Physiology Together. <i>Fish Physiology</i> , 2015, 34, 347-394.	0.8	10
40	Intrinsic reproductive isolating mechanisms in the maintenance of a hybrid zone between ecologically divergent subspecies. <i>Journal of Evolutionary Biology</i> , 2017, 30, 848-864.	1.7	10
41	Identification of the putative goldfish ( <i>Carassius auratus</i> ) magnesium transporter SLC41a1 and functional regulation in the gill, kidney, and intestine in response to dietary and environmental manipulations. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2017, 206, 69-81.	1.8	9
42	Does urea reabsorption occur via the glucose pathway in the kidney of the freshwater rainbow trout?. <i>Fish Physiology and Biochemistry</i> , 2004, 30, 1-12.	2.3	8
43	Impacts of low salinity exposure and antibiotic application on gut transport activity in the Pacific spiny dogfish, <i>Squalus acanthias suckleyi</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2020, 190, 535-545.	1.5	8
44	Uptake, handling, and excretion of Na <sup>+</sup> and Cl <sup>-</sup> from the diet <i>in vivo</i> in freshwater and seawater-acclimated killifish, <i>Fundulus heteroclitus</i> , an agastric teleost. <i>Journal of Experimental Biology</i> , 2013, 216, 3925-36.	1.7	6
45	The gut content microbiome of wild-caught rainbow darter is altered during laboratory acclimation. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2021, 39, 100835.	1.0	6
46	Is nickel an essential metal for aquatic animals?. <i>Integrated Environmental Assessment and Management</i> , 2008, 4, 266-7.	2.9	6
47	Is nickel an essential metal for aquatic animals?. <i>Integrated Environmental Assessment and Management</i> , 2008, 4, 266-267.	2.9	4
48	The interactive effect of digesting a meal and thermal acclimation on maximal enzyme activities in the gill, kidney, and intestine of goldfish ( <i>Carassius auratus</i> ). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2017, 187, 959-972.	1.5	4
49	Quantification of Mg <sup>2+</sup> , Ca <sup>2+</sup> and H <sup>+</sup> transport by the gastrointestinal tract of the goldfish, <i>Carassius auratus</i> , using the Scanning Ion-selective Electrode Technique (SIET). <i>PLoS ONE</i> , 2018, 13, e0207782.	2.5	4
50	Feeding in <i>Eptatretus cirrhatus</i> : effects on metabolism, gut structure and digestive processes, and the influence of post-prandial dissolved oxygen availability. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2019, 229, 52-59.	1.8	4
51	The gut microbiome may influence post-prandial nitrogen handling in an elasmobranch, the Pacific spiny dogfish ( <i>Squalus suckleyi</i> ). <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2022, 272, 111269.	1.8	4
52	Is Nickel an Essential Metal for Aquatic Animals. <i>Integrated Environmental Assessment and Management</i> , 2008, 4, 266.	2.9	2
53	Defecation and the fate of dietary sodium in the common killifish ( <i>Fundulus heteroclitus</i> )	1.5	1
54	Zonation of Ca <sup>2+</sup> transport and enzyme activity in the caeca of rainbow trout – a simple structure with complex functions. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	1

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55	FORAGING NOT BASED ON LUCK FOR HORSESHOE BATS. <i>Journal of Experimental Biology</i> , 2011, 214, v-v.	1.7	0