Brian C Small

List of Publications by Year
in descending order

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86 papers	2,498 citations	201674 27 h-index	214800 47 g-index
86 all docs	86 docs citations	86 times ranked	2025 citing authors

#	Article	IF	Citations
1	Nutritional physiology. , 2022, , 593-641.		4
2	Functional feeds marginally alter immune expression and microbiota of Atlantic salmon (Salmo salar) gut, gill, and skin mucosa though evidence of tissue-specific signatures and hostâ€“microbe coadaptation remain. Animal Microbiome, 2022, 4, 20.	3.8	15
3	Chronic exposure to environmental cadmium affects growth and survival, cellular stress, and glucose metabolism in juvenile channel catfish (Ictalurus punctatus). Aquatic Toxicology, 2021, 230, 105705.	4.0	21
4	Insect (black soldier fly, Hermetia illucens) meal supplementation prevents the soybean meal-induced intestinal enteritis in rainbow trout and health benefits of using insect oil. Fish and Shellfish Immunology, 2021, 109, 116-124.	3.6	60
5	Histidine requirement of rainbow trout (Oncorhynchus mykiss) fed a low fishmealâ€based diet for maximum growth and protein retention. Aquaculture Research, 2021, 52, 3785-3795.	1.8	8
6	Insect meal inclusion as a novel feed ingredient in soy-based diets improves performance of rainbow trout (Oncorhynchus mykiss). Aquaculture, 2021, 544, 737096.	3.5	16
7	An initial evaluation of fishmeal replacement with soy protein sources on growth and immune responses of burbot (Lota lota maculosa). Aquaculture, 2021, 545, 737157.	3.5	8
8	Optimizing the fatty acid profile of novel terrestrial oil blends in low fishmeal diets of rainbow trout (Oncorhynchus mykiss) yields comparable fish growth, total fillet n-3 LC-PUFA content, and health performance relative to fish oil. Aquaculture, 2021, 545, 737230.	3.5	10
9	Insect (black soldier fly larvae) oil as a potential substitute for fish or soy oil in the fish meal-based diet of juvenile rainbow trout (Oncorhynchus mykiss). Animal Nutrition, 2021, 7, 1360-1370.	5.1	23
10	The dietary lysine requirement for optimum protein retention differs with rainbow trout (Oncorhynchus mykiss Walbaum) strain. Aquaculture, 2020, 514, 734483.	3.5	15
11	Apparent digestibility of protein, amino acids and gross energy in rainbow trout fed various feed ingredients with or without protease. Aquaculture, 2020, 524, 735270.	3.5	19
12	Rapid acclimation of the cortisol stress response in adult turquoise killifish Nothobranchius furzeri. Laboratory Animals, 2019, 53, 383-393.	1.0	2
13	Introduction to the XIIIth ICBF conference special issue. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2019, 236, 110519.	1.8	0
14	Effects of lowering dietary fishmeal and crude protein levels on growth performance, body composition, muscle metabolic gene expression, and chronic stress response of rainbow trout (Oncorhynchus mykiss). Aquaculture, 2019, 513, 734435.	3.5	16
15	Ontogeny of the cortisol stress response and glucocorticoid receptor expression during early development in channel catfish, Ictalurus punctatus. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2019, 231, 119-123.	1.8	9
16	Exposure to environmentally relevant cadmium concentrations negatively impacts early life stages of channel catfish (Ictalurus punctatus). Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2019, 216, 43-51.	2.6	10
17	Characterization of a third ghrelin receptor, GHS-R3a, in channel catfish reveals novel expression patterns and a high affinity for homologous ligand. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2019, 229, 1-9.	1.8	7
18	Targeted gene expression panels and microbiota analysis provide insight into the effects of alternative production diet formulations on channel catfish nutritional physiology. Aquaculture, 2018, 489, 46-55.	3.5	7

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19	Characterization of two channel catfish, Ictalurus punctatus, glucocorticoid receptors and expression following an acute stressor. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2018, 216, 42-51.	1.8	4
20	Comparison of Channel Catfish and Blue Catfish Gut Microbiota Assemblages Shows Minimal Effects of Host Genetics on Microbial Structure and Inferred Function. Frontiers in Microbiology, 2018, 9, 1073.	3.5	36
21	Detection of Fish Hormones by Electrochemical Impedance Spectroscopy and Quartz Crystal Microbalance. Sensing and Bio-Sensing Research, 2017, 13, 1-8.	4.2	16
22	Differential Seasonal Steroid and Gonadotropin Expression in Full-Sibling Female Channel Catfish Maturing at Two or Three Years of Age under Normal and Accelerated Thermoperiods. North American Journal of Aquaculture, 2017, 79, 18-26.	1.4	0
23	Enhancing fish performance in aquaculture. Animal Frontiers, 2016, 6, 42-49.	1.7	8
24	Functional characterization of insulin-like growth factors in an ancestral fish species, the Shovelnose sturgeon Scaphirhynchus platorhynchus. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2016, 199, 21-27.	1.8	3
25	Development of a multitissue microfluidic array for assessing changes in gene expression associated with channel catfish appetite, growth, metabolism, and intestinal health. Aquaculture, 2016, 464, 213-221.	3.5	2
26	Ontogenetic Characterization of the Intestinal Microbiota of Channel Catfish through 16S rRNA Gene Sequencing Reveals Insights on Temporal Shifts and the Influence of Environmental Microbes. PLoS ONE, 2016, 11, e0166379.	2.5	102
27	Elucidating the roles of gut neuropeptides on channel catfish feed intake, glycemia, and hypothalamic NPY and POMC expression. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2015, 188, 168-174.	1.8	23
28	Exogenous recombinant bovine growth hormone stimulates growth and hepatic IGF expression in shovelnose sturgeon Scaphirhynchus platorhynchus. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2015, 180, 18-22.	1.8	9
29	Preliminary Investigation of Dietary Soy Sensitivity in Shovelnose Sturgeon. Journal of Applied Aquaculture, 2014, 26, 356-369.	1.4	4
30	Stress Responses in Pallid Sturgeon Following Three Simulated Hatchery Stressors. North American Journal of Aquaculture, 2014, 76, 170-177.	1.4	1
31	Effect of Altering Dietary Protein: Energy Ratios on Juvenile Pallid Sturgeon Growth Performance. North American Journal of Aquaculture, 2014, 76, 28-35.	1.4	5
32	Efficacy of AQUI-S 20E as a Sedative for Handling and Cortisol Suppression in Pallid Sturgeon. North American Journal of Fisheries Management, 2013, 33, 1172-1178.	1.0	7
33	Researching the Physiology and Culture ofScaphirhynchusSturgeon. Fisheries, 2013, 38, 221-223.	0.8	0
34	Effects of dietary arginine on endocrine growth factors of channel catfish, Ictalurus punctatus. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2013, 166, 215-221.	1.8	27
35	Evaluation of the Cortisol Stress Response in a Marine Perciform Fish, the San PedroOplegnathus insignis. North American Journal of Aquaculture, 2012, 74, 438-442.	1.4	2
36	Pre- and postprandial changes in orexigenic and anorexigenic factors in channel catfish (Ictalurus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.8	59

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37	Comparison of Growth, Body Composition, and Stress Responses of USDA103, USDA403, Industry, and Fast Growing Lines of Channel Catfish. Journal of the World Aquaculture Society, 2010, 41, 156-162.	2.4	5
38	Assembly of 500,000 inter-specific catfish expressed sequence tags and large scale gene-associated marker development for whole genome association studies. Genome Biology, 2010, 11, R8.	9.6	83
39	Evaluation of Sodium Carbonate Peroxyhydrate as a Potential Catfish Egg Disinfectant. Journal of Aquatic Animal Health, 2009, 21, 117-123.	1.4	4
40	Sequence, genomic organization and expression of two channel catfish, Ictalurus punctatus, ghrelin receptors. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 154, 451-464.	1.8	30
41	Effects of Loading Density on Golden Shiner Survival during and after Hauling. North American Journal of Aquaculture, 2009, 71, 24-29.	1.4	5
42	Stability of reference genes for real-time PCR analyses in channel catfish (Ictalurus punctatus) tissues under varying physiological conditions. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2008, 151, 296-304.	1.6	120
43	Endocrine Responses of Fast- and Slow-Growing Families of Channel Catfish. North American Journal of Aquaculture, 2008, 70, 240-250.	1.4	21
44	Elucidating the Effects of Cortisol and Stress on Economically Important Traits in Channel Catfish. North American Journal of Aquaculture, 2008, 70, 223-235.	1.4	16
45	Effect of Carp Pituitary Extract and Luteinizing Hormone Releasing Analog Hormone on Reproductive Indices and Spawning of 3â€Yearâ€Old Channel Catfish. North American Journal of Aquaculture, 2008, 70, 138-146.	1.4	8
46	Effects of rested-harvest using the anesthetic AQUI-Sâ„¢ on channel catfish, Ictalurus punctatus, physiology and fillet quality. Aquaculture, 2007, 262, 302-318.	3.5	39
47	Comparison of estradiol, testosterone, vitellogenin and cathepsin profiles among young adult channel catfish (Ictalurus punctatus) females from four selectively bred strains. Aquaculture, 2007, 264, 390-397.	3.5	18
48	Effects of GH on immune and endocrine responses of channel catfish challenged with Edwardsiella ictaluri. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 146, 47-53.	1.8	18
49	Improvements in Channel Catfish Growth after Two Generations of Selection and Comparison of Performance Traits among Channel Catfish, Blue Catfish, and Hybrid Catfish Fingerlings in an Aquarium Rack System. North American Journal of Aquaculture, 2006, 68, 92-98.	1.4	21
50	Efficacy of Formalin as an Egg Disinfectant for Improving Hybrid Catfish (Channel Catfish Ã— Blue) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.4	19
51	Using Portable Lactate and Glucose Meters for Catfish Research: Acceptable Alternatives to Established Laboratory Methods?. North American Journal of Aquaculture, 2006, 68, 291-295.	1.4	72
52	Rates of cortisol increase and decrease in channel catfish and sunshine bass exposed to an acute confinement stressor. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2006, 143, 134-139.	2.6	10
53	Reduction in channel catfish hepatic growth hormone receptor expression in response to food deprivation and exogenous cortisol. Domestic Animal Endocrinology, 2006, 31, 340-356.	1.6	63
54	Effect of Feeding Frequency on Feed Consumption, Growth, and Feed Efficiency in Aquarium-reared Norris and NWAC103 Channel Catfish (Ictalurus punctatus). Journal of the World Aquaculture Society, 2006, 37, 490-495.	2.4	15

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55	Effects of cortisol and stress on channel catfish (Ictalurus punctatus) pathogen susceptibility and lysozyme activity following exposure to Edwardsiella ictaluri. General and Comparative Endocrinology, 2005, 142, 256-262.	1.8	66
56	Genomic structure of the proopiomelanocortin gene and expression during acute low-water stress in channel catfish. General and Comparative Endocrinology, 2005, 143, 104-112.	1.8	16
57	Purification, cDNA cloning, and characterization of ghrelin in channel catfish, Ictalurus punctatus. General and Comparative Endocrinology, 2005, 143, 201-210.	1.8	81
58	Routine Measures of Stress Are Reduced in Mature Channel Catfish during and after AQUI-S Anesthesia and Recovery. North American Journal of Aquaculture, 2005, 67, 72-78.	1.4	41
59	Pathogen Levels, Lysozyme, and Cortisol Response in Channel Catfish with Susceptibility Differences toEdwardsiella ictaluri. Journal of Aquatic Animal Health, 2005, 17, 138-146.	1.4	12
60	Effect of fasting on nychthemeral concentrations of plasma growth hormone (GH), insulin-like growth factor I (IGF-I), and cortisol in channel catfish (Ictalurus punctatus). Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2005, 142, 217-223.	1.6	55
61	Lipopolysaccharide regulates myostatin and MyoD independently of an increase in plasma cortisol in channel catfish (Ictalurus punctatus). Domestic Animal Endocrinology, 2005, 28, 64-73.	1.6	24
62	Establishment of a time-resolved fluoroimmunoassay for measuring plasma insulin-like growth factor I (IGF-I) in fish: effect of fasting on plasma concentrations and tissue mRNA expression of IGF-I and growth hormone (GH) in channel catfish (Ictalurus punctatus). Domestic Animal Endocrinology, 2005, 28, 202-215.	1.6	112
63	Effects of exogenous cortisol on the GH/IGF-I/IGFBP network in channel catfish. Domestic Animal Endocrinology, 2005, 28, 391-404.	1.6	75
64	Differences in Growth and Nutrient Efficiency Between and Within Two Channel Catfish Ictalurus punctatus Strains. Journal of the World Aquaculture Society, 2005, 36, 8-13.	2.4	8
65	Effect of dietary cortisol administration on growth and reproductive success of channel catfish. Journal of Fish Biology, 2004, 64, 589-596.	1.6	37
66	Effects of Transport Water Temperature, Aerator Type, and Oxygen Level on Channel Catfish Ictalurus punctatus Fillet Quality. Journal of the World Aquaculture Society, 2004, 35, 412-419.	2.4	26
67	Identification of a Calcium-Critical Period During Channel Catfish Embryo Development. Journal of the World Aquaculture Society, 2004, 35, 291-295.	2.4	4
68	Molecular cloning of proopiomelanocortin cDNA and multi-tissue mRNA expression in channel catfish. General and Comparative Endocrinology, 2004, 137, 312-321.	1.8	28
69	Accounting for Water Temperature during Hydrogen Peroxide Treatment of Channel Catfish Eggs. North American Journal of Aquaculture, 2004, 66, 162-164.	1.4	14
70	Effects of fasting on circulating IGF-binding proteins, glucose, and cortisol in channel catfish (Ictalurus punctatus). Domestic Animal Endocrinology, 2004, 26, 231-240.	1.6	82
71	Effect of isoeugenol sedation on plasma cortisol, glucose, and lactate dynamics in channel catfish Ictalurus punctatus exposed to three stressors. Aquaculture, 2004, 238, 469-481.	3.5	100
72	Effects of bovine growth hormone (PosilacÂ®) on growth performance, body composition, and IGFBPs in two strains of channel catfish. Aquaculture, 2004, 232, 651-663.	3.5	43

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73	Development of an enzyme-linked immunosorbent assay for the measurement of plasma growth hormone (GH) levels in channel catfish (Ictalurus punctatus): assessment of environmental salinity and GH secretogogues on plasma GH levels. General and Comparative Endocrinology, 2003, 133, 314-322.	1.8	29
74	Pathogen loads, clearance and plasma cortisol response in channel catfish, Ictalurus punctatus (Rafinesque), following challenge with Edwardsiella ictaluri. Journal of Fish Diseases, 2003, 26, 433-437.	1.9	22
75	Hydrogen Peroxide Treatment during Egg Incubation Improves Channel Catfish Hatching Success. North American Journal of Aquaculture, 2003, 65, 314-317.	1.4	27
76	Anesthetic efficacy of metomidate and comparison of plasma cortisol responses to tricaine methanesulfonate, quinaldine and clove oil anesthetized channel catfish Ictalurus punctatus. Aquaculture, 2003, 218, 177-185.	3.5	182
77	Effect of Fasting on Pituitary Growth Hormone Expression and Circulating Growth Hormone Levels in Striped Bass. North American Journal of Aquaculture, 2002, 64, 278-283.	1.4	27
78	Validation of a Time-Resolved Fluoroimmunoassay for Measuring Plasma Cortisol in Channel CatfishIctalurus punctatus. Journal of the World Aquaculture Society, 2002, 33, 184-187.	2.4	46
79	Sequence and Expression of a cDNA Encoding Both Pituitary Adenylate Cyclase Activating Polypeptide and Growth Hormone-Releasing Hormone-like Peptide in Channel Catfish (Ictalurus punctatus). General and Comparative Endocrinology, 2001, 122, 354-363.	1.8	33
80	Effect of Lowâ€Temperature Incubation of Channel Catfish Ictalurus punctatus Eggs on Development, Survival, and Growth. Journal of the World Aquaculture Society, 2001, 32, 189-194.	2.4	19
81	Quantitative dietary lysine requirement of juvenile striped bass Morone saxatilis. Aquaculture Nutrition, 2000, 6, 207-212.	2.7	53
82	Optimization of Feed Formulation for Mature Female Striped Bass. North American Journal of Aquaculture, 2000, 62, 290-293.	1.4	3
83	Effect of Dietary Carbohydrate on Growth, Glucose Tolerance, and Liver Composition of Juvenile Striped Bass. North American Journal of Aquaculture, 1999, 61, 286-292.	1.4	19
84	Amino Acid Availability of Four Practical Feed Ingredients Fed to Striped BassMorone saxatilis. Journal of the World Aquaculture Society, 1999, 30, 58-64.	2.4	18
85	Quantitative Dietary Threonine Requirement of Juvenile Striped Bass Morone saxatilis. Journal of the World Aquaculture Society, 1999, 30, 319-323.	2.4	23
86	Estimating the quantitative essential amino acid requirements of striped bass Morone saxatilis , using fillet A/E ratios. Aquaculture Nutrition, 1998, 4, 225-232.	2.7	48