

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	Anesthetic efficacy of metomidate and comparison of plasma cortisol responses to tricaine methanesulfonate, quinaldine and clove oil anesthetized channel catfish <i>Ictalurus punctatus</i> . <i>Aquaculture</i> , 2003, 218, 177-185.	3.5	182
2	Stability of reference genes for real-time PCR analyses in channel catfish (<i>Ictalurus punctatus</i>) tissues under varying physiological conditions. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2008, 151, 296-304.	1.6	120
3	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 (<i>Ictalurus punctatus</i>). <i>Domestic Animal Endocrinology</i> , 2005, 28, 202-215.	1.6	112
4	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. <i>PLoS ONE</i> , 2016, 11, e0166379.	2.5	102
5	Effect of isoeugenol sedation on plasma cortisol, glucose, and lactate dynamics in channel catfish <i>Ictalurus punctatus</i> exposed to three stressors. <i>Aquaculture</i> , 2004, 238, 469-481.	3.5	100
6	Assembly of 500,000 inter-specific catfish expressed sequence tags and large scale gene-associated marker development for whole genome association studies. <i>Genome Biology</i> , 2010, 11, R8.	9.6	83
7	Effects of fasting on circulating IGF-binding proteins, glucose, and cortisol in channel catfish (<i>Ictalurus punctatus</i>). <i>Domestic Animal Endocrinology</i> , 2004, 26, 231-240.	1.6	82
8	Purification, cDNA cloning, and characterization of ghrelin in channel catfish, <i>Ictalurus punctatus</i> . <i>General and Comparative Endocrinology</i> , 2005, 143, 201-210.	1.8	81
9	Effects of exogenous cortisol on the GH/IGF-I/IGFBP network in channel catfish. <i>Domestic Animal Endocrinology</i> , 2005, 28, 391-404.	1.6	75
10	Using Portable Lactate and Glucose Meters for Catfish Research: Acceptable Alternatives to Established Laboratory Methods?. <i>North American Journal of Aquaculture</i> , 2006, 68, 291-295.	1.4	72
11	Effects of cortisol and stress on channel catfish (<i>Ictalurus punctatus</i>) pathogen susceptibility and lysozyme activity following exposure to <i>Edwardsiella ictaluri</i> . <i>General and Comparative Endocrinology</i> , 2005, 142, 256-262.	1.8	66
12	Reduction in channel catfish hepatic growth hormone receptor expression in response to food deprivation and exogenous cortisol. <i>Domestic Animal Endocrinology</i> , 2006, 31, 340-356.	1.6	63
13	Insect (black soldier fly, <i>Hermetia illucens</i>) meal supplementation prevents the soybean meal-induced intestinal enteritis in rainbow trout and health benefits of using insect oil. <i>Fish and Shellfish Immunology</i> , 2021, 109, 116-124.	3.6	60
14	Pre- and postprandial changes in orexigenic and anorexigenic factors in channel catfish (<i>Ictalurus</i>)	1.8	59
15	Effect of fasting on nycthemeral concentrations of plasma growth hormone (GH), insulin-like growth factor I (IGF-I), and cortisol in channel catfish (<i>Ictalurus punctatus</i>). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2005, 142, 217-223.	1.6	55
16	Quantitative dietary lysine requirement of juvenile striped bass <i>Morone saxatilis</i> . <i>Aquaculture Nutrition</i> , 2000, 6, 207-212.	2.7	53
17	Estimating the quantitative essential amino acid requirements of striped bass <i>Morone saxatilis</i> , using fillet A/E ratios. <i>Aquaculture Nutrition</i> , 1998, 4, 225-232.	2.7	48
18	Validation of a Time-Resolved Fluoroimmunoassay for Measuring Plasma Cortisol in Channel Catfish <i>Ictalurus punctatus</i> . <i>Journal of the World Aquaculture Society</i> , 2002, 33, 184-187.	2.4	46

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19	Effects of bovine growth hormone (Posilac®) on growth performance, body composition, and IGF1Ps in two strains of channel catfish. <i>Aquaculture</i> , 2004, 232, 651-663.	3.5	43
20	Routine Measures of Stress Are Reduced in Mature Channel Catfish during and after AQUI-S Anesthesia and Recovery. <i>North American Journal of Aquaculture</i> , 2005, 67, 72-78.	1.4	41
21	Effects of rested-harvest using the anesthetic AQUI-S, on channel catfish, <i>Ictalurus punctatus</i> , physiology and fillet quality. <i>Aquaculture</i> , 2007, 262, 302-318.	3.5	39
22	Effect of dietary cortisol administration on growth and reproductive success of channel catfish. <i>Journal of Fish Biology</i> , 2004, 64, 589-596.	1.6	37
23	Comparison of Channel Catfish and Blue Catfish Gut Microbiota Assemblages Shows Minimal Effects of Host Genetics on Microbial Structure and Inferred Function. <i>Frontiers in Microbiology</i> , 2018, 9, 1073.	3.5	36
24	Sequence and Expression of a cDNA Encoding Both Pituitary Adenylate Cyclase Activating Polypeptide and Growth Hormone-Releasing Hormone-like Peptide in Channel Catfish (<i>Ictalurus punctatus</i>). <i>General and Comparative Endocrinology</i> , 2001, 122, 354-363.	1.8	33
25	Sequence, genomic organization and expression of two channel catfish, <i>Ictalurus punctatus</i> , ghrelin receptors. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2009, 154, 451-464.	1.8	30
26	Development of an enzyme-linked immunosorbent assay for the measurement of plasma growth hormone (GH) levels in channel catfish (<i>Ictalurus punctatus</i>): assessment of environmental salinity and GH secretagogues on plasma GH levels. <i>General and Comparative Endocrinology</i> , 2003, 133, 314-322.	1.8	29
27	Molecular cloning of proopiomelanocortin cDNA and multi-tissue mRNA expression in channel catfish. <i>General and Comparative Endocrinology</i> , 2004, 137, 312-321.	1.8	28
28	Effect of Fasting on Pituitary Growth Hormone Expression and Circulating Growth Hormone Levels in Striped Bass. <i>North American Journal of Aquaculture</i> , 2002, 64, 278-283.	1.4	27
29	Hydrogen Peroxide Treatment during Egg Incubation Improves Channel Catfish Hatching Success. <i>North American Journal of Aquaculture</i> , 2003, 65, 314-317.	1.4	27
30	Effects of dietary arginine on endocrine growth factors of channel catfish, <i>Ictalurus punctatus</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2013, 166, 215-221.	1.8	27
31	Effects of Transport Water Temperature, Aerator Type, and Oxygen Level on Channel Catfish <i>Ictalurus punctatus</i> Fillet Quality. <i>Journal of the World Aquaculture Society</i> , 2004, 35, 412-419.	2.4	26
32	Lipopolysaccharide regulates myostatin and MyoD independently of an increase in plasma cortisol in channel catfish (<i>Ictalurus punctatus</i>). <i>Domestic Animal Endocrinology</i> , 2005, 28, 64-73.	1.6	24
33	Quantitative Dietary Threonine Requirement of Juvenile Striped Bass <i>Morone saxatilis</i> . <i>Journal of the World Aquaculture Society</i> , 1999, 30, 319-323.	2.4	23
34	Elucidating the roles of gut neuropeptides on channel catfish feed intake, glycemia, and hypothalamic NPY and POMC expression. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2015, 188, 168-174.	1.8	23
35	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 (<i>Oncorhynchus mykiss</i>). <i>Animal Nutrition</i> , 2021, 7, 1360-1370.	5.1	23
36	Pathogen loads, clearance and plasma cortisol response in channel catfish, <i>Ictalurus punctatus</i> (Rafinesque), following challenge with <i>Edwardsiella ictaluri</i> . <i>Journal of Fish Diseases</i> , 2003, 26, 433-437.	1.9	22

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37	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. <i>North American Journal of Aquaculture</i> , 2006, 68, 92-98.	1.4	21
38	Endocrine Responses of Fast- and Slow-Growing Families of Channel Catfish. <i>North American Journal of Aquaculture</i> , 2008, 70, 240-250.	1.4	21
39	Chronic exposure to environmental cadmium affects growth and survival, cellular stress, and glucose metabolism in juvenile channel catfish (<i>Ictalurus punctatus</i>). <i>Aquatic Toxicology</i> , 2021, 230, 105705.	4.0	21
40	Effect of Dietary Carbohydrate on Growth, Glucose Tolerance, and Liver Composition of Juvenile Striped Bass. <i>North American Journal of Aquaculture</i> , 1999, 61, 286-292.	1.4	19
41	Effect of Low Temperature Incubation of Channel Catfish (<i>Ictalurus punctatus</i>) Eggs on Development, Survival, and Growth. <i>Journal of the World Aquaculture Society</i> , 2001, 32, 189-194.	2.4	19
42	Efficacy of Formalin as an Egg Disinfectant for Improving Hybrid Catfish (Channel Catfish × Blue) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	1.4	19
43	Apparent digestibility of protein, amino acids and gross energy in rainbow trout fed various feed ingredients with or without protease. <i>Aquaculture</i> , 2020, 524, 735270.	3.5	19
44	Amino Acid Availability of Four Practical Feed Ingredients Fed to Striped Bass <i>Morone saxatilis</i> . <i>Journal of the World Aquaculture Society</i> , 1999, 30, 58-64.	2.4	18
45	Comparison of estradiol, testosterone, vitellogenin and cathepsin profiles among young adult channel catfish (<i>Ictalurus punctatus</i>) females from four selectively bred strains. <i>Aquaculture</i> , 2007, 264, 390-397.	3.5	18
46	Effects of GH on immune and endocrine responses of channel catfish challenged with <i>Edwardsiella ictaluri</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2007, 146, 47-53.	1.8	18
47	Genomic structure of the proopiomelanocortin gene and expression during acute low-water stress in channel catfish. <i>General and Comparative Endocrinology</i> , 2005, 143, 104-112.	1.8	16
48	Elucidating the Effects of Cortisol and Stress on Economically Important Traits in Channel Catfish. <i>North American Journal of Aquaculture</i> , 2008, 70, 223-235.	1.4	16
49	Detection of Fish Hormones by Electrochemical Impedance Spectroscopy and Quartz Crystal Microbalance. <i>Sensing and Bio-Sensing Research</i> , 2017, 13, 1-8.	4.2	16
50	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 (<i>Oncorhynchus mykiss</i>). <i>Aquaculture</i> , 2019, 513, 734435.	3.5	16
51	Insect meal inclusion as a novel feed ingredient in soy-based diets improves performance of rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Aquaculture</i> , 2021, 544, 737096.	3.5	16
52	Effect of Feeding Frequency on Feed Consumption, Growth, and Feed Efficiency in Aquarium-reared Norris and NWAC103 Channel Catfish (<i>Ictalurus punctatus</i>). <i>Journal of the World Aquaculture Society</i> , 2006, 37, 490-495.	2.4	15
53	The dietary lysine requirement for optimum protein retention differs with rainbow trout (<i>Oncorhynchus mykiss</i> Walbaum) strain. <i>Aquaculture</i> , 2020, 514, 734483.	3.5	15
54	Functional feeds marginally alter immune expression and microbiota of Atlantic salmon (<i>Salmo salar</i>) gut, gill, and skin mucosa though evidence of tissue-specific signatures and host-microbe coadaptation remain. <i>Animal Microbiome</i> , 2022, 4, 20.	3.8	15

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55	Accounting for Water Temperature during Hydrogen Peroxide Treatment of Channel Catfish Eggs. <i>North American Journal of Aquaculture</i> , 2004, 66, 162-164.	1.4	14
56	Pathogen Levels, Lysozyme, and Cortisol Response in Channel Catfish with Susceptibility Differences to <i>Edwardsiella ictaluri</i> . <i>Journal of Aquatic Animal Health</i> , 2005, 17, 138-146.	1.4	12
57	Rates of cortisol increase and decrease in channel catfish and sunshine bass exposed to an acute confinement stressor. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2006, 143, 134-139.	2.6	10
58	Exposure to environmentally relevant cadmium concentrations negatively impacts early life stages of channel catfish (<i>Ictalurus punctatus</i>). <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2019, 216, 43-51.	2.6	10
59	Optimizing the fatty acid profile of novel terrestrial oil blends in low fishmeal diets of rainbow trout (<i>Oncorhynchus mykiss</i>) yields comparable fish growth, total fillet n-3 LC-PUFA content, and health performance relative to fish oil. <i>Aquaculture</i> , 2021, 545, 737230.	3.5	10
60	Exogenous recombinant bovine growth hormone stimulates growth and hepatic IGF expression in shovelnose sturgeon <i>Scaphirhynchus platorhynchus</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2015, 180, 18-22.	1.8	9
61	Ontogeny of the cortisol stress response and glucocorticoid receptor expression during early development in channel catfish, <i>Ictalurus punctatus</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2019, 231, 119-123.	1.8	9
62	Differences in Growth and Nutrient Efficiency Between and Within Two Channel Catfish <i>Ictalurus punctatus</i> Strains. <i>Journal of the World Aquaculture Society</i> , 2005, 36, 8-13.	2.4	8
63	Effect of Carp Pituitary Extract and Luteinizing Hormone Releasing Analog Hormone on Reproductive Indices and Spawning of 3-Year-Old Channel Catfish. <i>North American Journal of Aquaculture</i> , 2008, 70, 138-146.	1.4	8
64	Enhancing fish performance in aquaculture. <i>Animal Frontiers</i> , 2016, 6, 42-49.	1.7	8
65	Histidine requirement of rainbow trout (<i>Oncorhynchus mykiss</i>) fed a low fishmeal-based diet for maximum growth and protein retention. <i>Aquaculture Research</i> , 2021, 52, 3785-3795.	1.8	8
66	An initial evaluation of fishmeal replacement with soy protein sources on growth and immune responses of burbot (<i>Lota lota maculosa</i>). <i>Aquaculture</i> , 2021, 545, 737157.	3.5	8
67	Efficacy of AQUI-S 20E as a Sedative for Handling and Cortisol Suppression in Pallid Sturgeon. <i>North American Journal of Fisheries Management</i> , 2013, 33, 1172-1178.	1.0	7
68	Targeted gene expression panels and microbiota analysis provide insight into the effects of alternative production diet formulations on channel catfish nutritional physiology. <i>Aquaculture</i> , 2018, 489, 46-55.	3.5	7
69	Characterization of a third ghrelin receptor, GHS-R3a, in channel catfish reveals novel expression patterns and a high affinity for homologous ligand. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2019, 229, 1-9.	1.8	7
70	Effects of Loading Density on Golden Shiner Survival during and after Hauling. <i>North American Journal of Aquaculture</i> , 2009, 71, 24-29.	1.4	5
71	Comparison of Growth, Body Composition, and Stress Responses of USDA103, USDA403, Industry, and Fast Growing Lines of Channel Catfish. <i>Journal of the World Aquaculture Society</i> , 2010, 41, 156-162.	2.4	5
72	Effect of Altering Dietary Protein: Energy Ratios on Juvenile Pallid Sturgeon Growth Performance. <i>North American Journal of Aquaculture</i> , 2014, 76, 28-35.	1.4	5

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73	Identification of a Calcium-Critical Period During Channel Catfish Embryo Development. Journal of the World Aquaculture Society, 2004, 35, 291-295.	2.4	4
74	Evaluation of Sodium Carbonate Peroxyhydrate as a Potential Catfish Egg Disinfectant. Journal of Aquatic Animal Health, 2009, 21, 117-123.	1.4	4
75	Preliminary Investigation of Dietary Soy Sensitivity in Shovelnose Sturgeon. Journal of Applied Aquaculture, 2014, 26, 356-369.	1.4	4
76	Characterization of two channel catfish, <i>Ictalurus punctatus</i> , glucocorticoid receptors and expression following an acute stressor. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2018, 216, 42-51.	1.8	4
77	Nutritional physiology. , 2022, , 593-641.		4
78	Optimization of Feed Formulation for Mature Female Striped Bass. North American Journal of Aquaculture, 2000, 62, 290-293.	1.4	3
79	Functional characterization of insulin-like growth factors in an ancestral fish species, the Shovelnose sturgeon <i>Scaphirhynchus platorhynchus</i> . Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2016, 199, 21-27.	1.8	3
80	Evaluation of the Cortisol Stress Response in a Marine Perciform Fish, the San Pedro Oplegnathus insignis. North American Journal of Aquaculture, 2012, 74, 438-442.	1.4	2
81	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
82	Rapid acclimation of the cortisol stress response in adult turquoise killifish <i>Nothobranchius furzeri</i> . Laboratory Animals, 2019, 53, 383-393.	1.0	2
83	Stress Responses in Pallid Sturgeon Following Three Simulated Hatchery Stressors. North American Journal of Aquaculture, 2014, 76, 170-177.	1.4	1
84	Researching the Physiology and Culture of <i>Scaphirhynchus</i> Sturgeon. Fisheries, 2013, 38, 221-223.	0.8	0
85	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
86	Introduction to the XIIIth ICBF conference special issue. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2019, 236, 110519.	1.8	0