

Dominique P Bureau

List of Publications by Year in descending order

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70
papers

4,120
citations

172457

29
h-index

114465

63
g-index

70
all docs

70
docs citations

70
times ranked

3317
citing authors

#	ARTICLE	IF	CITATIONS
1	Feeding aquaculture in an era of finite resources. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15103-15110.	7.1	1,111
2	The effects of purified alcohol extracts from soy products on feed intake and growth of chinook salmon (<i>Oncorhynchus tshawytscha</i>) and rainbow trout (<i>Oncorhynchus mykiss</i>). Aquaculture, 1998, 161, 27-43.	3.5	246
3	Effects of feeding level and water temperature on growth, nutrient and energy utilization and waste outputs of rainbow trout (<i>O.</i>). Aquatic Living Resources, 1998, 11, 227-238.	1.2	180
4	Modelling growth and body composition in fish nutrition: where have we been and where are we going?. Aquaculture Research, 2010, 41, 161-181.	1.8	121
5	Quantitative description of body composition and rates of nutrient deposition in rainbow trout (<i>Oncorhynchus mykiss</i>). Aquaculture, 2007, 273, 165-181.	3.5	116
6	Diet digestible energy content affects lysine utilization, but not dietary lysine requirements of rainbow trout (<i>Oncorhynchus mykiss</i>) for maximum growth. Aquaculture, 2004, 235, 569-586.	3.5	115
7	Effect of feeding level on growth and nutrient deposition in rainbow trout (<i>Oncorhynchus mykiss</i>) Tj ETQq1 1 0.784314 rgBT/Overlock 110	1.8	110
8	Towards effective nutritional management of waste outputs in aquaculture, with particular reference to salmonid aquaculture operations. Aquaculture Research, 2010, 41, 777-792.	1.8	108
9	Reduction of Waste Output from Salmonid Aquaculture through Feeds and Feeding. Progressive Fish-Culturist, 1997, 59, 155-160.	0.6	106
10	Effect of replacing fish meal with soybean meal on growth, feed utilization and carcass composition of cuneate drum (<i>Nibea miichthioides</i>). Aquaculture, 2006, 261, 1307-1313.	3.5	105
11	Dietary incorporation of soybean meal and exogenous enzyme cocktail can affect physical characteristics of faecal material egested by rainbow trout (<i>Oncorhynchus mykiss</i>). Aquaculture, 2006, 254, 466-475.	3.5	101
12	Chemical Composition and Preliminary Theoretical Estimates of Waste Outputs of Rainbow Trout Reared in Commercial Cage Culture Operations in Ontario. North American Journal of Aquaculture, 2003, 65, 33-38.	1.4	92
13	Rainbow trout (<i>Oncorhynchus mykiss</i>) is extremely sensitive to the feed-borne <i>Fusarium</i> mycotoxin deoxynivalenol (DON). Aquaculture, 2011, 311, 224-232.	3.5	92
14	Replacement of fish meal by rendered animal protein ingredients in feeds for cuneate drum (<i>Nibea</i>) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	3.5	88
15	Evidence of three growth stanzas in rainbow trout (<i>Oncorhynchus mykiss</i>) across life stages and adaptation of the thermal-unit growth coefficient. Aquaculture, 2007, 267, 139-146.	3.5	88
16	Effects of dietary protein and energy levels on growth, feed utilization and body composition of cuneate drum (<i>Nibea miichthioides</i>). Aquaculture, 2006, 252, 421-428.	3.5	87
17	Effects of feeding frequency and ration level on growth, feed utilization and nitrogen waste output of cuneate drum (<i>Nibea miichthioides</i>) reared in net pens. Aquaculture, 2007, 271, 350-356.	3.5	70
18	Effects of dietary fatty acid composition on the regulation of carnitine palmitoyltransferase (CPT) I in rainbow trout (<i>Oncorhynchus mykiss</i>). Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2009, 152, 85-93.	1.6	57

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19	Potential of using a blend of rendered animal protein ingredients to replace fish meal in practical diets for malabar grouper (<i>Epinephelus malabaricus</i>). <i>Aquaculture</i> , 2008, 281, 113-117.	3.5	54
20	Development of a model to estimate digestible lipid content of salmonid fish feeds. <i>Aquaculture</i> , 2009, 286, 271-276.	3.5	53
21	Effects of lipid on growth and feed utilization of white seabass (<i>Atractoscion nobilis</i>) fingerlings. <i>Aquaculture</i> , 2006, 253, 557-563.	3.5	52
22	The Effect of Dietary Lipid and Long-chain PUFA Levels on Growth, Energy Utilization, Carcass Quality, and Immune Function of Rainbow Trout, <i>Oncorhynchus mykiss</i> . <i>Journal of the World Aquaculture Society</i> , 2008, 39, 1-21.	2.4	50
23	Replacing Fish Meal with Rendered Animal Protein Ingredients in Diets for Malabar Grouper, <i>Epinephelus malabaricus</i> , Reared in Net Pens. <i>Journal of the World Aquaculture Society</i> , 2009, 40, 67-75.	2.4	49
24	Sustainability issues related to feeding salmonids: a Canadian perspective. <i>Reviews in Aquaculture</i> , 2013, 5, 199-219.	9.0	46
25	Exploring the possibility of quantifying the effects of plant protein ingredients in fish feeds using meta-analysis and nutritional model simulation-based approaches. <i>Aquaculture</i> , 2012, 356-357, 284-301.	3.5	44
26	Comparison of the bioavailability of lysine in blood meals of various origins to that of l-lysine HCL for rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Aquaculture</i> , 2007, 262, 402-409.	3.5	42
27	Bioenergetics-Based Factorial Model to Determine Feed Requirement and Waste Output of Tilapia Produced under Commercial Conditions. <i>Aquaculture</i> , 2013, 410-411, 138-147.	3.5	41
28	Evidence that soyasaponin Bb retards disease progression in a murine model of polycystic kidney disease. <i>Kidney International</i> , 2003, 63, 1230-1239.	5.2	38
29	Diet energy source affects lysine utilization for protein deposition in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Aquaculture</i> , 2011, 317, 107-114.	3.5	37
30	Deoxynivalenol: Mechanisms of action and its effects on various terrestrial and aquatic species. <i>Food and Chemical Toxicology</i> , 2021, 157, 112616.	3.6	34
31	Apparent Digestibility of Macronutrients and Fatty Acids from Microalgae (<i>Schizochytrium</i> sp.) Fed to Rainbow Trout (<i>Oncorhynchus mykiss</i>): A Potential Candidate for Fish Oil Substitution. <i>Animals</i> , 2021, 11, 456.	2.3	30
32	Determination of Phosphorus Fractions in Animal Protein Ingredients. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 1571-1574.	5.2	29
33	Assessing the bioavailability of L-methionine and a methionine hydroxy analogue (MHA-Ca) compared to DL-methionine in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Aquaculture Research</i> , 2017, 48, 332-346.	1.8	29
34	A mathematical model to explain variations in estimates of starch digestibility and predict digestible starch content of salmonid fish feeds. <i>Aquaculture</i> , 2009, 294, 282-287.	3.5	28
35	The actions of <i>in ovo</i> cortisol on egg fertility, embryo development and the expression of growth-related genes in rainbow trout embryos, and the growth performance of juveniles. <i>Molecular Reproduction and Development</i> , 2010, 77, 922-931.	2.0	28
36	Effect of different <i>Artemia</i> enrichments and feeding protocol for rearing juvenile long snout seahorse, <i>Hippocampus guttulatus</i> . <i>Aquaculture</i> , 2011, 318, 439-443.	3.5	28

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37	Effects of Wheat Naturally Contaminated with Fusarium Mycotoxins on Growth Performance and Selected Health Indices of Red Tilapia (<i>Oreochromis niloticus</i> Å— <i>O. mossambicus</i>). <i>Toxins</i> , 2015, 7, 1929-1944.	3.4	27
38	Effects of binder type and binder addition on the growth of juvenile <i>Palaemonetes varians</i> and <i>Palaemon elegans</i> (Crustacea: Palaemonidae). <i>Aquaculture International</i> , 2008, 16, 427-436.	2.2	23
39	Digestibility of amino acids in Indian mustard protein concentrate and Indian mustard meal compared to that of a soy protein concentrate in rainbow trout and Atlantic salmon. <i>Aquaculture</i> , 2012, 356-357, 128-134.	3.5	22
40	Algal and Vegetable Oils as Sustainable Fish Oil Substitutes in Rainbow Trout Diets: An Approach to Reduce Contaminant Exposure. <i>Journal of Food Quality</i> , 2018, 2018, 1-12.	2.6	21
41	Diets containing corn naturally contaminated with deoxynivalenol reduces the susceptibility of rainbow trout (<i>Oncorhynchus mykiss</i>) to experimental <i>Flavobacterium psychrophilum</i> infection. <i>Aquaculture Research</i> , 2016, 47, 787-796.	1.8	19
42	Global metabolic responses of the lenok (<i>Brachymystax lenok</i>) to thermal stress. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2019, 29, 308-319.	1.0	19
43	Growth and efficiency of feed usage by Atlantic salmon (<i>Salmo salar</i>) fed diets with different dietary protein: Energy ratios at two feeding levels. <i>Fisheries Science</i> , 2002, 68, 878-888.	1.6	18
44	A web-based combined nutritional model to precisely predict growth, feed requirement and waste output of gibel carp (<i>Carassius auratus gibelio</i>) in aquaculture operations. <i>Aquaculture</i> , 2018, 492, 335-348.	3.5	18
45	Estimating changes in essential amino acid requirements of rainbow trout and Atlantic salmon as a function of body weight or diet composition using a novel factorial requirement model. <i>Aquaculture</i> , 2019, 513, 734440.	3.5	18
46	Mathematical modeling for the management of the carrying capacity of aquaculture enterprises in lakes and reservoirs. <i>Pesquisa Agropecuaria Brasileira</i> , 2017, 52, 695-706.	0.9	17
47	Effect of body weight on lysine utilization efficiency in Nile Tilapia (<i>Oreochromis niloticus</i>). <i>Aquaculture</i> , 2019, 505, 47-53.	3.5	17
48	A novel enzymatic pre-treatment improves amino acid utilization in feather meal fed to rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Aquaculture Research</i> , 2019, 50, 1459-1474.	1.8	16
49	A factorial model to predict phosphorus waste output of rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Aquaculture Research</i> , 2008, 39, 1059-1068.	1.8	15
50	Growth, Reproductive Performances, and Brood Quality of Long Snout Seahorse, <i>Hippocampus guttulatus</i> , Fed Enriched Shrimp Diets. <i>Journal of the World Aquaculture Society</i> , 2012, 43, 802-813.	2.4	14
51	Quantitative dietary requirement of juvenile Atlantic ditch shrimp <i>Palaemonetes varians</i> for lysine, methionine and arginine. <i>Aquaculture Research</i> , 2015, 46, 1822-1830.	1.8	14
52	Evaluation of the efficacy of a commercial feed additive against the adverse effects of feed-borne deoxynivalenol (DON) on the performance of rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Aquaculture</i> , 2017, 473, 237-245.	3.5	14
53	Nutrient deposition partitioning and priorities between body compartments in two size classes of rainbow trout in response to feed restriction. <i>British Journal of Nutrition</i> , 2014, 111, 1361-1372.	2.3	13
54	Growth and whole body composition of lake trout (<i>Salvelinus namaycush</i>), brook trout (<i>Salvelinus</i>) first-feeding to 16 weeks post first-feeding. <i>Aquaculture</i> , 2005, 249, 195-204.	3.5	12

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55	Effects of temperature, density and early weaning on the survival and growth of Atlantic ditch shrimp (<i>Palaemonetes varians</i>) larvae. <i>Aquaculture Research</i> , 2009, 40, 1468-1473.	1.8	11
56	Feeding increasing levels of corn gluten meal induces suboptimal muscle pigmentation of rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Aquaculture Research</i> , 2016, 47, 1972-1983.	1.8	11
57	A mechanistic model of nutritional control of protein synthesis in animal tissues. <i>Journal of Theoretical Biology</i> , 2010, 262, 361-369.	1.7	10
58	The effects of naturally occurring or purified deoxynivalenol (DON) on growth performance, nutrient utilization and histopathology of rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Aquaculture</i> , 2019, 505, 319-332.	3.5	10
59	Terrestrial Animal Fats. , 2010, , 245-266.		9
60	A comparative investigation of the effects of feed-borne deoxynivalenol (DON) on growth performance, nutrient utilization and metabolism of detoxification in rainbow trout (<i>Oncorhynchus mykiss</i>) fed with different levels of carbohydrates. <i>Aquaculture</i> , 2019, 505, 306-318.	3.5	9
61	Bioavailability of arginine from Indian mustard protein concentrate and meal compared with that of a soy protein concentrate in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Aquaculture Research</i> , 2015, 46, 2092-2103.	1.8	8
62	Dietary fatty acid composition and the homeostatic regulation of mitochondrial phospholipid classes in red muscle of rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Journal of Experimental Zoology</i> , 2015, 323, 60-71.	1.2	7
63	Mathematical descriptions of indeterminate growth. <i>Journal of Theoretical Biology</i> , 2017, 425, 88-96.	1.7	5
64	RELEVANCE OF A RAPID APPRAISAL APPROACH TO IDENTIFY LOCALLY AVAILABLE FEED INGREDIENTS TO SMALL-SCALE NILE TILAPIA (<i>Oreochromis niloticus</i> L.) AQUACULTURE. <i>Aquaculture, Economics and Management</i> , 2007, 11, 151-169.	4.2	4
65	Assessing the bioavailability of L-lysine sulfate compared to L-lysine HCl in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Aquaculture</i> , 2015, 448, 327-333.	3.5	4
66	Effects of soybean and sunflower meals on the growth, feed utilization, and gene expression in two Canadian strains of juvenile Arctic charr (<i>Salvelinus alpinus</i>). <i>Aquaculture</i> , 2017, 481, 191-201.	3.5	4
67	Reduction of carotenoids in corn gluten meal: Effects on growth performance and muscle pigmentation of rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Canadian Journal of Animal Science</i> , 2015, 95, 79-92.	1.5	2
68	Growth trajectory analysis of Pacific whiteleg shrimp (<i>Litopenaeus vannamei</i>): Comparison of the specific growth rate, the thermal growth coefficient and its adaptations. <i>Aquaculture Research</i> , 2020, 51, 480-489.	1.8	2
69	Efficiency of Conversion of Feed Inputs into Animal Biomass. , 2008, , 547-567.		2
70	Development of a microplate method for the determination of hepatic UDP-glucuronosyltransferase activity in rainbow trout (<i>Oncorhynchus mykiss</i>) and Nile tilapia (<i>Oreochromis niloticus</i>). <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2021, 248, 109114.	2.6	0