Sachi Kaushik

List of Publications by Citations

259 papers	15,857 citations	72 h-index	113 g-index
267 ext. papers	17,383 ext. citations	3.6 avg, IF	6.44 L-index

#	Paper	IF	Citations
259	Partial or total replacement of fish meal by soybean protein on growth, protein utilization, potential estrogenic or antigenic effects, cholesterolemia and flesh quality in rainbow trout, Oncorhynchus mykiss. *Aquaculture*, **1995**, 133, 257-274	4.4	561
258	Almost total replacement of fish meal by plant protein sources in the diet of a marine teleost, the European seabass, Dicentrarchus labrax. *Aquaculture*, **2004**, 230, 391-404	4.4	385
257	Protein growth performance, amino acid utilisation and somatotropic axis responsiveness to fish meal replacement by plant protein sources in gilthead sea bream (Sparus aurata). *Aquaculture*, **2004**, 232, 493-510	4.4	315
256	Nutritional regulation of hepatic glucose metabolism in fish. *Fish Physiology and Biochemistry*, **2009**, 35, 519-39	2.7	302
255	Effect of fish meal replacement by plant protein sources on non-specific defence mechanisms and oxidative stress in gilthead sea bream (Sparus aurata). *Aquaculture*, **2005**, 249, 387-400	4.4	292
254	Replacement of fish meal by plant proteins in the diet of rainbow trout (Oncorhynchus mykiss): digestibility and growth performance. *Aquaculture*, **1995**, 130, 177-186	4.4	277
253	Total replacement of fish oil by soybean or linseed oil with a return to fish oil in turbot (Psetta maxima). *Aquaculture*, **2003**, 217, 465-482	4.4	247
252	Regulation of hepatic lipogenesis by dietary protein/energy in juvenile European seabass (Dicentrarchus labrax). *Aquaculture*, **1998**, 161, 169-186	4.4	240
251	Dietary lipid level, hepatic lipogenesis and flesh quality in turbot (Psetta maxima). *Aquaculture*, **2001**, 193, 291-309	4.4	212
250	Protein and amino acid nutrition and metabolism in fish: current knowledge and future needs. *Aquaculture Research*, **2010**, 41, 322-332	1.9	211
249	Whole body amino acid composition of European seabass (Dicentrarchus labrax), gilthead seabream (Sparus aurata) and turbot (Psetta maxima) with an estimation of their IAA requirement profiles. *Aquatic Living Resources*, **1998**, 11, 355-358	1.5	197
248	Energy requirements, utilization and dietary supply to salmonids. *Aquaculture*, **1994**, 124, 81-97	4.4	181
247	Modifications of digestive enzymes in trout (Oncorhynchus mykiss) and sea bream (Sparus aurata) in response to dietary fish meal replacement by plant protein sources. *Aquaculture*, **2008**, 282, 68-74	4.4	178
246	Digestibility of extruded peas, extruded lupin, and rapeseed meal in rainbow trout (Oncorhynchus mykiss) and turbot (Psetta maxima). *Aquaculture*, **2000**, 188, 285-298	4.4	178
245	Effect of digestible energy on nitrogen and energy balance in rainbow trout. *Aquaculture*, **1985**, 50, 89-101	4.4	178
244	Effect of long-term feeding with a plant protein mixture based diet on growth and body/fillet quality traits of large rainbow trout (Oncorhynchus mykiss). *Aquaculture*, **2004**, 236, 413-429	4.4	168
243	Partial or total replacement of fish meal by corn gluten meal in diet for turbot (Psetta maxima). *Aquaculture*, **1999**, 180, 99-117	4.4	166

242	Hepatic glucokinase is induced by dietary carbohydrates in rainbow trout, gilthead seabream, and common carp. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2000**, 278, R1164-70	3.2	162
241	Growth performance and adiposity in gilthead sea bream (Sparus aurata): risks and benefits of high energy diets. *Aquaculture*, **1999**, 171, 279-292	4.4	159
240	Effect of normal and waxy maize starch on growth, food utilization and hepatic glucose metabolism in European sea bass (Dicentrarchus labrax) juveniles. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2006**, 143, 89-96	2.6	157
239	Replacing dietary fish oil by vegetable oils has little effect on lipogenesis, lipid transport and tissue lipid uptake in rainbow trout (Oncorhynchus mykiss). *British Journal of Nutrition*, **2006**, 96, 299-309	3.6	155
238	High levels of vegetable oils in plant protein-rich diets fed to gilthead sea bream (Sparus aurata L.): growth performance, muscle fatty acid profiles and histological alterations of target tissues. *British Journal of Nutrition*, **2008**, 100, 992-1003	3.6	150
237	Fatty acid profile of fish following a change in dietary fatty acid source: model of fatty acid composition with a dilution hypothesis. *Aquaculture*, **2003**, 225, 283-293	4.4	142
236	An in vivo and in vitro assessment of TOR signaling cascade in rainbow trout (Oncorhynchus mykiss). *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2008**, 295, R329-35	3.2	138
235	Contribution of digestible energy from carbohydrates and estimation of protein/energy requirements for growth of rainbow trout (Oncorhynchus mykiss). *Aquaculture*, **1992**, 106, 161-169	4.4	132
234	Nutritional bioenergetics and estimation of waste production in non-salmonids. *Aquatic Living Resources*, **1998**, 11, 211-217	1.5	129
233	Combined replacement of fish meal and oil in practical diets for fast growing juveniles of gilthead sea bream (Sparus aurata L.): Networking of systemic and local components of GH/IGF axis. *Aquaculture*, **2007**, 267, 199-212	4.4	129
232	Proteomic sensitivity to dietary manipulations in rainbow trout. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2003**, 1651, 17-29	4	125
231	Effects of dietary amino acid profile on growth performance, key metabolic enzymes and somatotropic axis responsiveness of gilthead sea bream (Sparus aurata). *Aquaculture*, **2003**, 220, 749-767	4.4	125
230	Lack of significant long-term effect of dietary carbohydrates on hepatic glucose-6-phosphatase expression in rainbow trout (Oncorhynchus mykiss). *Journal of Nutritional Biochemistry*, **2000**, 11, 22-9	6.3	123
229	Nutritional regulation and tissue specificity of gene expression for proteins involved in hepatic glucose metabolism in rainbow trout (Oncorhynchus mykiss). *Journal of Experimental Biology*, **2001**, 204, 2351-2360	3	121
228	Dietary plant-protein substitution affects hepatic metabolism in rainbow trout (Oncorhynchus mykiss). *British Journal of Nutrition*, **2004**, 92, 71-80	3.6	117
227	Dietary protein source affects lipid metabolism in the European seabass (Dicentrarchus labrax). *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2005**, 142, 19-31	2.6	117
226	Glucokinase is highly induced and glucose-6-phosphatase poorly repressed in liver of rainbow trout (Oncorhynchus mykiss) by a single meal with glucose. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2001**, 128, 275-83	2.3	116
225	Cloning and nutritional regulation of a Delta6-desaturase-like enzyme in the marine teleost gilthead seabream (Sparus aurata). *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2003**, 135, 449-60	2.3	115

224	Potential of plant-protein sources as fish meal substitutes in diets for turbot (Psetta maxima): growth, nutrient utilisation and thyroid status. *Aquaculture*, **2000**, 188, 363-382	4.4	115
223	Effects of the total replacement of fish-based diet with plant-based diet on the hepatic transcriptome of two European sea bass (Dicentrarchus labrax) half-sibfamilies showing different growth rates with the plant-based diet. *BMC Genomics*, **2011**, 12, 522	4.5	112
222	Replacement of a large portion of fish oil by vegetable oils does not affect lipogenesis, lipid transport and tissue lipid uptake in European seabass (Dicentrarchus labrax L.). *Aquaculture*, **2006**, 261, 1077-1087	4.4	112
221	Mineral requirements of fish: a systematic review. *Reviews in Aquaculture*, **2016**, 8, 172-219	8.9	110
220	Environmental impact assessment of salmonid feeds using Life Cycle Assessment (LCA). *Ambio*, **2004**, 33, 316-23	6.5	110
219	Effect of high-level fish meal replacement by plant proteins in gilthead sea bream (Sparus aurata) on growth and body/fillet quality traits. *Aquaculture Nutrition*, **2007**, 13, 361-372	3.2	108
218	Growth performance and metabolic utilization of diets with native and waxy maize starch by gilthead sea bream (Sparus aurata) juveniles. *Aquaculture*, **2008**, 274, 101-108	4.4	107
217	Regulation of feed intake, growth, nutrient and energy utilisation in European sea bass (Dicentrarchus labrax) fed high fat diets. *Aquaculture*, **2004**, 231, 529-545	4.4	104
216	Dietary carbohydrate-to-protein ratio affects TOR signaling and metabolism-related gene expression in the liver and muscle of rainbow trout after a single meal. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2011**, 300, R733-43	3.2	102
215	Regulation of metabolism by dietary carbohydrates in two lines of rainbow trout divergently selected for muscle fat content. *Journal of Experimental Biology*, **2012**, 215, 2567-78	3	101
214	The optimum dietary indispensable amino acid pattern for growing Atlantic salmon (Salmo salar L.) fry. *British Journal of Nutrition*, **2003**, 90, 865-76	3.6	100
213	Cloning, tissue distribution and nutritional regulation of a Delta6-desaturase-like enzyme in rainbow trout. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2001**, 130, 83-93	2.3	100
212	Effect of digestible carbohydrates on protein/energy utilization and on glucose metabolism in rainbow trout (Salmo gairdneri R.). *Aquaculture*, **1989**, 79, 63-74	4.4	98
211	Differential gene expression after total replacement of dietary fish meal and fish oil by plant products in rainbow trout (Oncorhynchus mykiss) liver. *Aquaculture*, **2009**, 294, 123-131	4.4	97
210	Insulin regulates the expression of several metabolism-related genes in the liver and primary hepatocytes of rainbow trout (Oncorhynchus mykiss). *Journal of Experimental Biology*, **2008**, 211, 2510-8	3	95
209	Gluconeogenic enzyme gene expression is decreased by dietary carbohydrates in common carp (Cyprinus carpio) and gilthead seabream (Sparus aurata). *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **2002**, 1579, 35-42		95
208	Excess dietary arginine affects urea excretion but does not improve N utilisation in rainbow trout Oncorhynchus mykiss and turbot Psetta maxima. *Aquaculture*, **2003**, 217, 559-576	4.4	94
207	Nutritional regulation and tissue specificity of gene expression for proteins involved in hepatic glucose metabolism in rainbow trout (Oncorhynchus mykiss). *Journal of Experimental Biology*, **2001**, 204, 2351-60	3	92

206	Dietary Carbohydrate Utilization by European Sea Bass (Dicentrarchus labrax L.) and Gilthead Sea Bream (Sparus aurata L.) Juveniles. *Reviews in Fisheries Science*, **2011**, 19, 201-215		90
205	Control of skeletal muscle fibres and adipose cells size in the flesh of rainbow trout. *Journal of Fish Biology*, **1997**, 50, 296-314	1.9	89
204	Voluntary feed intake, nitrogen and phosphorus losses in rainbow trout () fed increasing dietary levels of soy protein concentrate. *Aquatic Living Resources*, **1998**, 11, 239-246	1.5	89
203	Hepatic glucokinase and glucose-6-phosphatase responses to dietary glucose and starch in gilthead sea bream (Sparus aurata) juveniles reared at two temperatures. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2008**, 149, 80-6	2.6	88
202	Relation between dietary lipid level and voluntary feed intake, growth, nutrient gain, lipid deposition and hepatic lipogenesis in rainbow trout. *Reproduction, Nutrition, Development*, **2001**, 41, 487-503		88
201	Influence of the diet on the microbial diversity of faecal and gastrointestinal contents in gilthead sea bream (Sparus aurata) and intestinal contents in goldfish (Carassius auratus). *FEMS Microbiology Ecology*, **2011**, 78, 285-96	4.3	85
200	Morphometric evaluation of changes in the digestive tract of rainbow trout (Oncorhynchus mykiss) due to fish meal replacement with soy protein concentrate. *Aquaculture*, **2007**, 273, 127-138	4.4	85
199	Dietary low-glucosinolate rapeseed meal affects thyroid status and nutrient utilization in rainbow trout (Oncorhynchus mykiss). *British Journal of Nutrition*, **2000**, 83, 653-64	3.6	84
198	Fat deposition and flesh quality in seawater reared, triploid brown trout (Salmo trutta) as affected by dietary fat levels and starvation. *Aquaculture*, **2001**, 193, 325-345	4.4	84
197	Effects of dietary incorporation of a co-extruded plant protein (rapeseed and peas) on growth, nutrient utilization and muscle fatty acid composition of rainbow trout (Oncorhynchus mykiss). *Aquaculture*, **1993**, 113, 339-353	4.4	83
196	Effects of low protein intake on extra-hepatic gluconeogenic enzyme expression and peripheral glucose phosphorylation in rainbow trout (Oncorhynchus mykiss). *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2005**, 140, 333-40	2.3	82
195	Effect of genistein-enriched diets on the endocrine process of gametogenesis and on reproduction efficiency of the rainbow trout Oncorhynchus mykiss. *General and Comparative Endocrinology*, **2001**, 121, 173-87	3	80
194	Mucins as diagnostic and prognostic biomarkers in a fish-parasite model: transcriptional and functional analysis. *PLoS ONE*, **2013**, 8, e65457	3.7	79
193	Molecular characterization of gilthead sea bream (Sparus aurata) lipoprotein lipase. Transcriptional regulation by season and nutritional condition in skeletal muscle and fat storage tissues. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2005**, 142, 224-32	2.3	78
192	Influence of oligosaccharides on the digestibility of lupin meals when fed to rainbow trout, Oncorhynchus mykiss. *Aquaculture*, **2003**, 219, 703-713	4.4	75
191	Effects of rapeseed meal-glucosinolates on thyroid metabolism and feed utilization in rainbow trout. *General and Comparative Endocrinology*, **2001**, 124, 343-58	3	74
190	Effect of fishmeal and fish oil replacement by vegetable meals and oils on gut health of European sea bass (Dicentrarchus labrax). *Aquaculture*, **2017**, 468, 386-398	4.4	73
189	Low protein intake is associated with reduced hepatic gluconeogenic enzyme expression in rainbow trout (Oncorhynchus mykiss). *Journal of Nutrition*, **2003**, 133, 2561-4	4.1	73

188	Feeding status regulates the polyubiquitination step of the ubiquitin-proteasome-dependent proteolysis in rainbow trout (Oncorhynchus mykiss) muscle. *Journal of Nutrition*, **2008**, 138, 487-91	4.1	72
187	Hepatic phosphoenolpyruvate carboxykinase gene expression is not repressed by dietary carbohydrates in rainbow trout (Oncorhynchus mykiss). *Journal of Experimental Biology*, **2001**, 204, 359-365	3	72
186	Metformin improves postprandial glucose homeostasis in rainbow trout fed dietary carbohydrates: a link with the induction of hepatic lipogenic capacities?. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2009**, 297, R707-15	3.2	71
185	Dietary arginine requirement of young rainbow trout (Oncorhynchus mykiss). *Comparative Biochemistry and Physiology A, Comparative Physiology*, **1992**, 102, 211-6		71
184	Protein sparing effect of dietary lipids in common dentex (): A comparative study with sea bream () and sea bass (). *Aquatic Living Resources*, **1999**, 12, 23-30	1.5	70
183	The positive impact of the early-feeding of a plant-based diet on its future acceptance and utilisation in rainbow trout. *PLoS ONE*, **2013**, 8, e83162	3.7	69
182	Total replacement of fish oil by soybean or linseed oil with a return to fish oil in Turbot (Psetta maxima): 2. Flesh quality properties. *Aquaculture*, **2003**, 220, 737-747	4.4	68
181	Hepatic protein kinase B (Akt)-target of rapamycin (TOR)-signalling pathways and intermediary metabolism in rainbow trout (Oncorhynchus mykiss) are not significantly affected by feeding plant-based diets. *British Journal of Nutrition*, **2009**, 102, 1564-73	3.6	67
180	Nutrient requirements, supply and utilization in the context of carp culture. *Aquaculture*, **1995**, 129, 225-241	4.4	67
179	Arginine requirement and status assessed by different biochemical indices in rainbow trout (Salmo gairdneri R.). *Aquaculture*, **1988**, 70, 75-95	4.4	67
178	Antioxidant defense system is altered by dietary oxidized lipid in first-feeding rainbow trout (Oncorhynchus mykiss). *Aquaculture*, **2014**, 424-425, 220-227	4.4	66
177	Incorporation of high levels of extruded lupin in diets for rainbow trout (Oncorhynchus mykiss): nutritional value and effect on thyroid status. *Aquaculture*, **1998**, 163, 325-345	4.4	66
176	Preliminary results on sea bass (Dicentrarchus labrax) larvae rearing with compound diet from first feeding. Comparison with carp (Cyprinus carpio) larvae. *Aquaculture*, **1998**, 169, 1-7	4.4	66
175	Quantitative arginine requirement of Atlantic salmon (Salmo salar) reared in sea water. *Aquaculture* , **1994**, 124, 13-25	4.4	65
174	Dietary vegetable oils do not alter the intestine transcriptome of gilthead sea bream (Sparus aurata), but modulate the transcriptomic response to infection with Enteromyxum leei. *BMC Genomics*, **2012**, 13, 470	4.5	64
173	The time course of fish oil wash-out follows a simple dilution model in gilthead sea bream (Sparus aurata L.) fed graded levels of vegetable oils. *Aquaculture*, **2009**, 288, 98-105	4.4	64
172	Improvement of feed intake through supplementation with an attractant mix in European seabass fed plant-protein rich diets. *Aquatic Living Resources*, **1997**, 10, 385-389	1.5	64
171	Muscle insulin binding and plasma levels in relation to liver glucokinase activity, glucose metabolism and dietary carbohydrates in rainbow trout. *Regulatory Peptides*, **2003**, 110, 123-32		64

170	Thermal acclimation and dietary lipids alter the composition, but not fluidity, of trout sperm plasma membrane. *Lipids*, **1995**, 30, 23-33	1.6	64
169	Environmental impacts of plant-based salmonid diets at feed and farm scales. *Aquaculture*, **2011**, 321, 61-70	4.4	63
168	Skeletal muscle growth dynamics and expression of related genes in white and red muscles of rainbow trout fed diets with graded levels of a mixture of plant protein sources as substitutes for fishmeal. *Aquaculture*, **2010**, 303, 50-58	4.4	63
167	High levels of dietary fat impair glucose homeostasis in rainbow trout. *Journal of Experimental Biology*, **2012**, 215, 169-78	3	63
166	Rapid metabolic adaptation in European sea bass (Dicentrarchus labrax) juveniles fed different carbohydrate sources after heat shock stress. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2006**, 145, 73-81	2.6	63
165	Dietary methionine availability affects the main factors involved in muscle protein turnover in rainbow trout (Oncorhynchus mykiss). *British Journal of Nutrition*, **2014**, 112, 493-503	3.6	62
164	Dietary ascorbic acid needs of common carp (Cyprinus carpio) larvae. *Aquaculture*, **1998**, 161, 453-461	4.4	62
163	Influence of bacterial protein incorporation and of sulphur amino acid supplementation to such diets on growth of rainbow trout, Salmo gairdnerii Richardson. *Aquaculture*, **1980**, 19, 163-175	4.4	62
162	Nutritional value of soy protein concentrate for larvae of common carp (Cyprinus carpio) based on growth performance and digestive enzyme activities. *Aquaculture*, **1997**, 153, 63-80	4.4	61
161	Nutritional and hormonal control of lipolysis in isolated gilthead seabream (Sparus aurata) adipocytes. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2005**, 289, R259-65	3.2	61
160	Rainbow trout can discriminate between feeds with different oil sources. *Physiology and Behavior*, **2005**, 85, 107-14	3.5	61
159	Hepatic phosphoenolpyruvate carboxykinase gene expression is not repressed by dietary carbohydrates in rainbow trout (Oncorhynchus mykiss). *Journal of Experimental Biology*, **2001**, 204, 359-65	3	61
158	Effects of dietary methionine and taurine supplementation to low-fish meal diets on growth performance and oxidative status of European sea bass (Dicentrarchus labrax) juveniles. *Aquaculture*, **2017**, 479, 447-454	4.4	60
157	Digestibility, postprandial ammonia excretion and selected plasma metabolites in European sea bass (Dicentrarchus labrax) fed pelleted or extruded diets with or without wheat gluten. *Aquaculture*, **1999**, 179, 45-56	4.4	60
156	An in vivo and in vitro assessment of autophagy-related gene expression in muscle of rainbow trout (Oncorhynchus mykiss). *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2010**, 157, 258-66	2.3	59
155	Effects of dietary phytoestrogens in vivo and in vitro in rainbow trout and Siberian sturgeon: interests and limits of the in vitro studies of interspecies differences. *General and Comparative Endocrinology*, **2002**, 126, 39-51	3	59
154	Studies on the nutrition of Siberian sturgeon, Acipenser baeri: I. Utilization of digestible carbohydrates by sturgeon. *Aquaculture*, **1989**, 76, 97-107	4.4	58
153	Influence of partial substitution of dietary fish meal on the activity of digestive enzymes in the intestinal brush border membrane of gilthead sea bream, Sparus aurata and goldfish, Carassius auratus. *Aquaculture*, **2010**, 306, 233-237	4.4	57

152	Molecular characterization and expression analysis of six peroxiredoxin paralogous genes in gilthead sea bream (Sparus aurata): insights from fish exposed to dietary, pathogen and confinement stressors. *Fish and Shellfish Immunology*, **2011**, 31, 294-302	4.3	56
151	Tissue-specific robustness of fatty acid signatures in cultured gilthead sea bream (Sparus aurata L.) fed practical diets with a combined high replacement of fish meal and fish oil. *Journal of Animal Science*, **2010**, 88, 1759-70	0.7	55
150	The role of hepatic, renal and intestinal gluconeogenic enzymes in glucose homeostasis of juvenile rainbow trout. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2008**, 178, 429-38	2.2	54
149	Influence of the forms and levels of dietary selenium on antioxidant status and oxidative stress-related parameters in rainbow trout (Oncorhynchus mykiss) fry. *British Journal of Nutrition*, **2015**, 113, 1876-87	3.6	52
148	Patterns of Nitrogen Excretion and Oxygen Consumption During Ontogenesis of Common Carp (Cyprinus carpio). *Canadian Journal of Fisheries and Aquatic Sciences*, **1982**, 39, 1095-1105	2.4	52
147	Molecular pathways associated with the nutritional programming of plant-based diet acceptance in rainbow trout following an early feeding exposure. *BMC Genomics*, **2016**, 17, 449	4.5	51
146	Link between lipid metabolism and voluntary food intake in rainbow trout fed coconut oil rich in medium-chain TAG. *British Journal of Nutrition*, **2012**, 107, 1714-25	3.6	51
145	Lipid peroxidative stress and antioxidant defence status during ontogeny of rainbow trout (Oncorhynchus mykiss). *British Journal of Nutrition*, **2008**, 100, 102-11	3.6	51
144	Effects of lysine administration on plasma arginine and on some nitrogenous catabolites in rainbow trout. *Comparative Biochemistry and Physiology A, Comparative Physiology*, **1984**, 79, 459-462		51
143	Molecular cloning, tissue distribution and sequence analysis of complete glucokinase cDNAs from gilthead seabream (Sparus aurata), rainbow trout (Oncorhynchus mykiss) and common carp (Cyprinus carpio). *Biochimica Et Biophysica Acta - General Subjects*, **2000**, 1474, 61-9	4	50
142	Partial replacement of dietary protein nitrogen with dispensable amino acids in diets of Nile tilapia, Oreochromis niloticus. *Comparative Biochemistry and Physiology A, Comparative Physiology*, **1994**, 109, 469-477		50
141	Constraints on energy intake in fish: the link between diet composition, energy metabolism, and energy intake in rainbow trout. *PLoS ONE*, **2012**, 7, e34743	3.7	49
140	Growth and body composition of zebrafish (Danio rerio) larvae fed a compound feed from first feeding onward: toward implications on nutrient requirements. *Zebrafish*, **2011**, 8, 87-95	2	49
139	Studies on the nutrition of Siberian sturgeon, Acipenser baeri. II. Utilization of dietary non-protein energy by sturgeon. *Aquaculture*, **1991**, 93, 143-154	4.4	49
138	Effect of partial substitution of dietary protein by a single gluconeogenic dispensable amino acid on hepatic glucose metabolism in rainbow trout (Oncorhynchus mykiss). *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2003**, 134, 337-47	2.6	47
137	The effects of dietary carbohydrate sources and forms on metabolic response and intestinal microbiota in sea bass juveniles, Dicentrarchus labrax. *Aquaculture*, **2014**, 422-423, 47-53	4.4	46
136	Apparent low ability of liver and muscle to adapt to variation of dietary carbohydrate:protein ratio in rainbow trout (Oncorhynchus mykiss). *British Journal of Nutrition*, **2013**, 109, 1359-72	3.6	46
135	Assessment of the health and antioxidant trade-off in gilthead sea bream (Sparus aurata L.) fed alternative diets with low levels of contaminants. *Aquaculture*, **2009**, 296, 87-95	4.4	46

134	Skeletal muscle cellularity and expression of myogenic regulatory factors and myosin heavy chains in rainbow trout (Oncorhynchus mykiss): effects of changes in dietary plant protein sources and amino acid profiles. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2010**, 156, 561-8	2.6	46
133	Modulation of the IgM gene expression and IgM immunoreactive cell distribution by the nutritional background in gilthead sea bream (Sparus aurata) challenged with Enteromyxum leei (Myxozoa). *Fish and Shellfish Immunology*, **2012**, 33, 401-10	4.3	45
132	Modifications of intestinal nutrient absorption in response to dietary fish meal replacement by plant protein sources in sea bream (Sparus aurata) and rainbow trout (Onchorynchus mykiss). *Aquaculture*, **2011**, 317, 146-154	4.4	45
131	Regulation of the somatotropic axis by dietary factors in rainbow trout (Oncorhynchus mykiss). *British Journal of Nutrition*, **2005**, 94, 353-61	3.6	45
130	Rearing of sturgeon (Acipenser baeri Brandt) larvae. *Aquaculture*, **1985**, 47, 185-192	4.4	45
129	Nutritional assessment of somatolactin function in gilthead sea bream (Sparus aurata): concurrent changes in somatotropic axis and pancreatic hormones. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2004**, 138, 533-42	2.6	44
128	Quantifying dietary phosphorus requirement of fish a meta-analytic approach. *Aquaculture Nutrition*, **2013**, 19, 233-249	3.2	43
127	Effect of frequency of feeding on nitrogen and energy balance in rainbow trout under maintenance conditions. *Aquaculture*, **1988**, 73, 207-216	4.4	43
126	Relationship between protein intake and voluntary energy intake as affected by body weight with an estimation of maintenance needs in rainbow trout. *Zeitschrift Fur Tierphysiologie, Tierernahrung Und Futtermittelkunde*, **1984**, 51, 57-69		41
125	Rearing of coregonid (Coregonus schinzi palea cuv. et val.) larvae using dry and live food I. Preliminary data. *Aquaculture*, **1984**, 41, 11-20	4.4	40
124	Combined replacement of fishmeal and fish oil in European sea bass (Dicentrarchus labrax): Production performance, tissue composition and liver morphology. *Aquaculture*, **2017**, 474, 101-112	4.4	39
123	Reduced lipid intake leads to changes in digestive enzymes in the intestine but has minor effects on key enzymes of hepatic intermediary metabolism in rainbow trout (Oncorhynchus mykiss). *Animal*, **2007**, 1, 1272-82	3.1	39
122	Cloning and tissue distribution of a carnitine palmitoyltransferase I gene in rainbow trout (Oncorhynchus mykiss). *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2003**, 135, 139-51	2.3	39
121	Effect of dietary methionine level on muscle growth mechanisms in juvenile rainbow trout (Oncorhynchus mykiss). *Aquaculture*, **2018**, 483, 273-285	4.4	38
120	Macronutrient-induced differences in food intake relate with hepatic oxidative metabolism and hypothalamic regulatory neuropeptides in rainbow trout (Oncorhynchus mykiss). *Physiology and Behavior*, **2012**, 106, 499-505	3.5	38
119	Effects of dietary phosphorus and calcium level on growth and skeletal development in rainbow trout (Oncorhynchus mykiss) fry. *Aquaculture*, **2009**, 297, 141-150	4.4	38
118	A comparative study of the metabolic response in rainbow trout and Nile tilapia to changes in dietary macronutrient composition. *British Journal of Nutrition*, **2013**, 109, 816-26	3.6	37
117	Dietary nutrient composition affects digestible energy utilisation for growth: a study on Nile tilapia (Oreochromis niloticus) and a literature comparison across fish species. *British Journal of Nutrition*, **2012**, 108, 277-89	3.6	37

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