Neil B Metcalfe

List of Publications by Year
in descending order

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239 papers	21,258 citations	12330 69 h-index	11052 137 g-index
247 all docs	247 docs citations	247 times ranked	14103 citing authors

#	Article	IF	Citations
1	Compensation for a bad start: grow now, pay later?. Trends in Ecology and Evolution, 2001, 16, 254-260.	8.7	1,614
2	Developmental plasticity and human health. Nature, 2004, 430, 419-421.	27.8	1,529
3	Oxidative stress as a mediator of life history tradeâ€offs: mechanisms, measurements and interpretation. Ecology Letters, 2009, 12, 75-92.	6.4	1,083
4	Telomere length in early life predicts lifespan. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1743-1748.	7.1	722
5	Carotenoid Modulation of Immune Function and Sexual Attractiveness in Zebra Finches. Science, 2003, 300, 125-127.	12.6	597
6	What causes intraspecific variation in resting metabolic rate and what are its ecological consequences?. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 3465-3473.	2.6	536
7	Oxidative stress as a lifeâ€history constraint: the role of reactive oxygen species in shaping phenotypes from conception to death. Functional Ecology, 2010, 24, 984-996.	3.6	450
8	Growth versus lifespan: perspectives from evolutionary ecology. Experimental Gerontology, 2003, 38, 935-940.	2.8	418
9	Metabolic rate, social status and life-history strategies in Atlantic salmon. Animal Behaviour, 1995, 49, 431-436.	1.9	387
10	Largeâ€“scale geographical variation confirms that climate change causes birds to lay earlier. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 1657-1662.	2.6	357
11	Modelling the proximate basis of salmonid life-history variation, with application to Atlantic salmon, Salmo salar L.. Evolutionary Ecology, 1998, 12, 581-599.	1.2	350
12	Environmental stressors alter relationships between physiology and behaviour. Trends in Ecology and Evolution, 2013, 28, 651-658.	8.7	291
13	Does individual variation in metabolic phenotype predict fish behaviour and performance?. Journal of Fish Biology, 2016, 88, 298-321.	1.6	270
14	GROWTH COMPENSATION IN JUVENILE ATLANTIC SALMON: RESPONSES TO DEPRESSED TEMPERATURE AND FOOD AVAILABILITY. Ecology, 1997, 78, 2385-2400.	3.2	248
15	Food availability and the nocturnal vs. diurnal foraging tradeâ€off in juvenile salmon. Journal of Animal Ecology, 1999, 68, 371-381.	2.8	235
16	Telomere dynamics rather than age predict life expectancy in the wild. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 1679-1683.	2.6	234
17	The influence of predation risk on the feeding motivation and foraging strategy of juvenile Atlantic salmon. Animal Behaviour, 1987, 35, 901-911.	1.9	231
18	Ecological processes in a hormetic framework. Ecology Letters, 2010, 13, 1435-1447.	6.4	230

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19	Can environmental conditions experienced in early life influence future generations?. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140311.	2.6	229
20	The effects of habitat on the vigilance of shorebirds: Is visibility important?. Animal Behaviour, 1984, 32, 981-985.	1.9	215
21	Oxygen- and capacity-limited thermal tolerance: blurring ecology and physiology. Journal of Experimental Biology, 2018, 221, .	1.7	204
22	Changing priorities: the effect of pre-migratory fattening on the trade-off between foraging and vigilance. Behavioral Ecology and Sociobiology, 1984, 15, 203-206.	1.4	203
23	Realâ€time quantitative PCR assay for measurement of avian telomeres. Journal of Avian Biology, 2009, 40, 342-347.	1.2	194
24	Low summer temperatures cause juvenile Atlantic salmon to become nocturnal. Canadian Journal of Zoology, 1995, 73, 446-451.	1.0	192
25	Variation in the link between oxygen consumption and ATP production, and its relevance for animal performance. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20151028.	2.6	187
26	Neonatal nutrition, adult antioxidant defences and sexual attractiveness in the zebra finch. Proceedings of the Royal Society B: Biological Sciences, 2003, 270, 1691-1696.	2.6	186
27	The interaction between behavior and physiology in determining life history patterns in Atlantic salmon (Salmo salar). Canadian Journal of Fisheries and Aquatic Sciences, 1998, 55, 93-103.	1.4	185
28	Anorexia and Defended Energy Levels in Over-Wintering Juvenile Salmon. Journal of Animal Ecology, 1992, 61, 175.	2.8	182
29	Plasma Cortisol Concentrations Before and After Social Stress in Rainbow Trout and Brown Trout. Physiological and Biochemical Zoology, 2001, 74, 383-389.	1.5	173
30	Experimental demonstration of the growth rateâ€“lifespan trade-off. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20122370.	2.6	173
31	Diurnal variation in flight performance and hence potential predation risk in small birds. Proceedings of the Royal Society B: Biological Sciences, 1995, 261, 395-400.	2.6	170
32	Presence of shelter reduces maintenance metabolism of juvenile salmon. Functional Ecology, 2006, 20, 839-845.	3.6	167
33	Early nutrition and phenotypic development: â€˜catch-upâ€™ growth leads to elevated metabolic rate in adulthood. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 1565-1570.	2.6	163
34	Does reproduction cause oxidative stress? An open question. Trends in Ecology and Evolution, 2013, 28, 347-350.	8.7	158
35	Intraspecific resource partitioning in brown trout: the temporal distribution of foraging is determined by social rank. Journal of Animal Ecology, 2001, 70, 980-986.	2.8	157
36	Group foraging in wild brown hares: effects of resource distribution and social status. Animal Behaviour, 1985, 33, 993-999.	1.9	152

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37	Does darkening signal submission in territorial contests between juvenile Atlantic salmon, Salmo salar ?. Animal Behaviour, 1999, 58, 1269-1276.	1.9	143
38	Fighting in fiddler crabs Uca mjoebergi: what determines duration?. Animal Behaviour, 2005, 70, 653-662.	1.9	139
39	The relative roles of domestication, rearing environment, prior residence and body size in deciding territorial contests between hatchery and wild juvenile salmon. Journal of Applied Ecology, 2003, 40, 535-544.	4.0	137
40	Ecological and evolutionary consequences of metabolic rate plasticity in response to environmental change. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180180.	4.0	136
41	Deferred costs of compensatory growth after autumnal food shortage in juvenile salmon. Proceedings of the Royal Society B: Biological Sciences, 2001, 268, 295-301.	2.6	133
42	Metabolic rate evolves rapidly and in parallel with the pace of life history. Nature Communications, 2018, 9, 14.	12.8	128
43	Seasonal changes in feeding motivation of juvenile Atlantic salmon (Salmo salar). Canadian Journal of Zoology, 1986, 64, 2439-2446.	1.0	120
44	Carotenoids, oxidative stress and female mating preference for longer lived males. Proceedings of the Royal Society B: Biological Sciences, 2007, 274, 1591-1596.	2.6	117
45	Seasonal matching of foraging to anticipated energy requirements in anorexic juvenile salmon. Proceedings of the Royal Society B: Biological Sciences, 1996, 263, 13-18.	2.6	114
46	The optimal combination of standard metabolic rate and aerobic scope for somatic growth depends on food availability. Functional Ecology, 2015, 29, 479-486.	3.6	109
47	Fish recognize and prefer to shoal with poor competitors. Proceedings of the Royal Society B: Biological Sciences, 1995, 259, 207-210.	2.6	107
48	Flexibility in metabolic rate confers a growth advantage under changing food availability. Journal of Animal Ecology, 2015, 84, 1405-1411.	2.8	107
49	Juvenile Atlantic Salmon (Salmo salar) with relatively high standard metabolic rates have small metabolic scopes. Functional Ecology, 2002, 16, 73-78.	3.6	104
50	Juvenile salmon with high standard metabolic rates have higher energy costs but can process meals faster. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 2103-2108.	2.6	97
51	The effects of mixed-species flocking on the vigilance of shorebirds: Who do they trust?. Animal Behaviour, 1984, 32, 986-993.	1.9	96
52	Stateâ€“dependent shifts between nocturnal and diurnal activity in salmon. Proceedings of the Royal Society B: Biological Sciences, 1998, 265, 1503-1507.	2.6	96
53	A reassessment of the effect of body mass upon flight speed and predation risk in birds. Animal Behaviour, 1998, 56, 883-889.	1.9	94
54	Title is missing!. Fish Physiology and Biochemistry, 2000, 22, 11-20.	2.3	94

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55	Individuals with higher metabolic rates have lower levels of reactive oxygen species in vivo. Biology Letters, 2015, 11, 20150538.	2.3	94
56	Relationships between Social Status, Otolith Size at first feeding and subsequent growth in Atlantic Salmon (Salmo salar). Journal of Animal Ecology, 1992, 61, 585.	2.8	92
57	Differential patterns of feeding and resource accumulation in maturing and immature Atlantic salmon, Salmo salar. Aquaculture, 1996, 142, 245-257.	3.5	92
58	The effects of social status on life-history variation in juvenile salmon. Canadian Journal of Zoology, 1990, 68, 2630-2636.	1.0	91
59	Seasonal changes in sheltering: effect of light and temperature on diel activity in juvenile salmon. Animal Behaviour, 1997, 54, 1405-1412.	1.9	91
60	Do female association preferences predict the likelihood of reproduction?. Behavioral Ecology and Sociobiology, 2010, 64, 541-548.	1.4	85
61	Daily and seasonal patterns in the feeding behaviour of Atlantic salmon (Salmo salar L.) in a sea cage. Aquaculture, 1993, 117, 165-178.	3.5	81
62	Early life experience primes resistance to oxidative stress. Journal of Experimental Biology, 2012, 215, 2820-2826.	1.7	79
63	Costs of rapid growth: the risk of aggression is higher for fast-growing salmon. Functional Ecology, 1999, 13, 793-800.	3.6	77
64	Effects of an environmental perturbation on the social behaviour and physiological function of brown trout. Animal Behaviour, 2001, 61, 325-333.	1.9	77
65	The impact of dietary restriction, intermittent feeding and compensatory growth on reproductive investment and lifespan in a short-lived fish. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 1703-1708.	2.6	77
66	The performance advantage of a high resting metabolic rate in juvenile salmon is habitat dependent. Journal of Animal Ecology, 2012, 81, 868-875.	2.8	77
67	Alternative competitive strategies in juvenile Atlantic salmon (Salmo salar): evidence from fin damage. Aquaculture, 2000, 184, 291-302.	3.5	74
68	A poor start in life negatively affects dominance status in adulthood independent of body size in green swordtails Xiphophorus helleri. Proceedings of the Royal Society B: Biological Sciences, 2005, 272, 1917-1922.	2.6	74
69	Daily feeding rhythms in Atlantic salmon in sea cages. Aquaculture, 1991, 92, 219-224.	3.5	73
70	Behavioural influences on life-history variation in juvenile Atlantic salmon, Salmo salar. Environmental Biology of Fishes, 1992, 33, 331-340.	1.0	73
71	Habitat Profitability and Choice in a Sit-And-Wait Predator: Juvenile Salmon Prefer Slower Currents on Darker Nights. Journal of Animal Ecology, 1997, 66, 866.	2.8	73
72	Male finches selectively pair with fecund females. Proceedings of the Royal Society B: Biological Sciences, 1996, 263, 1183-1186.	2.6	71

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73	A hidden cost of reproduction: the trade-off between clutch size and escape take-off speed in female zebra finches. Journal of Animal Ecology, 2001, 70, 20-24.	2.8	69
74	Climate change and ageing in ectotherms. Global Change Biology, 2020, 26, 5371-5381.	9.5	68
75	Is smolting a positive or a negative developmental decision?. Aquaculture, 1998, 168, 95-103.	3.5	66
76	Availability of non-carotenoid antioxidants affects the expression of a carotenoid-based sexual ornament. Biology Letters, 2007, 3, 353-356.	2.3	66
77	Is the level of aggression and dispersion in territorial fish dependent on light intensity?. Animal Behaviour, 2001, 61, 1143-1149.	1.9	65
78	Dietary carotenoid availability, sexual signalling and functional fertility in sticklebacks. Biology Letters, 2010, 6, 191-193.	2.3	65
79	Estimated standard metabolic rate interacts with territory quality and density to determine the growth rates of juvenile Atlantic salmon. Functional Ecology, 2011, 25, 1360-1367.	3.6	65
80	Altitudinal variation in the relationship between growth and maturation rate in salmon parr. Journal of Animal Ecology, 2004, 73, 253-260.	2.8	63
81	Effects of neonatal nutrition on adult reproduction in a passerine bird. Ibis, 2006, 148, 509-514.	1.9	62
82	Aerobic scope explains individual variation in feeding capacity. Biology Letters, 2015, 11, 20150793.	2.3	62
83	Predation risk impairs diet selection in juvenile salmon. Animal Behaviour, 1987, 35, 931-933.	1.9	61
84	Context-dependent mate choice in relation to social composition in green swordtails Xiphophorus helleri. Behavioral Ecology, 2008, 19, 998-1005.	2.2	61
85	The pattern of early growth trajectories affects adult breeding performance. Ecology, 2012, 93, 902-912.	3.2	61
86	Familiarity influences body darkening in territorial disputes between juvenile salmon. Animal Behaviour, 2000, 59, 1095-1101.	1.9	60
87	Decreased mitochondrial metabolic requirements in fasting animals carry an oxidative cost. Functional Ecology, 2018, 32, 2149-2157.	3.6	60
88	Does dominance status correlate with growth in wild stream-dwelling Atlantic salmon (Salmo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142	2.2	59
89	Flight muscle atrophy and predation risk in breeding birds. Functional Ecology, 2000, 14, 115-121.	3.6	58
90	Biochemical integration of blood redox state in captive zebra finches (Taeniopygia guttata). Journal of Experimental Biology, 2011, 214, 1148-1152.	1.7	58

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91	Intergenerational Transfer of Ageing: Parental Age and Offspring Lifespan. Trends in Ecology and Evolution, 2020, 35, 927-937.	8.7	58
92	Sexual selection, growth compensation and fast-start swimming performance in Green Swordtails, Xiphophorus helleri. Functional Ecology, 2006, 20, 662-669.	3.6	57
93	Loss of integration is associated with reduced resistance to oxidative stress. Journal of Experimental Biology, 2013, 216, 2213-20.	1.7	56
94	Effect of food pellet shape and texture on the feeding response of juvenile Atlantic salmon. Aquaculture, 1988, 73, 217-228.	3.5	55
95	Seasonal current holding performance of juvenile Atlantic salmon in relation to temperature and smolting. Canadian Journal of Fisheries and Aquatic Sciences, 1996, 53, 80-86.	1.4	55
96	Impaired flight ability during incubation in the pied flycatcher. Journal of Avian Biology, 2002, 33, 179-183.	1.2	55
97	Interactions between parental traits, environmental harshness and growth rate in determining telomere length in wild juvenile salmon. Molecular Ecology, 2016, 25, 5425-5438.	3.9	55
98	Intra- and inter-specific competition for winter concealment habitat in juvenile salmonids. Canadian Journal of Fisheries and Aquatic Sciences, 2002, 59, 1515-1523.	1.4	54
99	Catch-up growth strategies differ between body structures: interactions between age and structure-specific growth in wild nestling Alpine Swifts. Functional Ecology, 2006, 20, 857-864.	3.6	54
100	The deteriorating soma and the indispensable germline: gamete senescence and offspring fitness. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20192187.	2.6	53
101	Pace and stability of embryonic development affect telomere dynamics: an experimental study in a precocial bird model. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20201378.	2.6	53
102	Changing nutritional status causes a shift in the balance of nocturnal to diurnal activity in European Minnows. Functional Ecology, 2001, 15, 304-309.	3.6	52
103	The potential role of the gut microbiota in shaping host energetics and metabolic rate. Journal of Animal Ecology, 2020, 89, 2415-2426.	2.8	52
104	Prior hormetic priming is costly under environmental mismatch. Biology Letters, 2014, 10, 20131010.	2.3	51
105	Sex-dependent effects of nutrition on telomere dynamics in zebra finches (Taeniopygia guttata) Tj ETQq1 1 0.784314 rgBT /O	2.3	51
106	Repeatability of metabolic rate is lower for animals living under field versus laboratory conditions. Journal of Experimental Biology, 2016, 219, 631-4.	1.7	51
107	Fishes in a changing world: learning from the past to promote sustainability of fish populations. Journal of Fish Biology, 2018, 92, 804-827.	1.6	51
108	The use of ventilation frequency as an accurate indicator of metabolic rate in juvenile Atlantic salmon (Salmo salar). Canadian Journal of Fisheries and Aquatic Sciences, 2008, 65, 2081-2087.	1.4	49

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109	The effects of increased flow rates on linear dominance hierarchies and physiological function in brown trout, Salmo trutta. Canadian Journal of Zoology, 2002, 80, 1221-1227.	1.0	48
110	Optimization of Resource Allocation Can Explain the Temporal Dynamics and Honesty of Sexual Signals. American Naturalist, 2009, 174, 515-525.	2.1	48
111	The tradeoff between catchâ€up growth and escape speed: variation between habitats in the cost of compensation. Oikos, 2007, 116, 1144-1151.	2.7	47
112	Variation in Metabolic Rate among Individuals Is Related to Tissue-Specific Differences in Mitochondrial Leak Respiration. Physiological and Biochemical Zoology, 2016, 89, 511-523.	1.5	47
113	Producers, scroungers and foraging group structure. Animal Behaviour, 1996, 51, 171-175.	1.9	46
114	Sympatric association influences within-species dominance relations among juvenile Atlantic salmon and brown trout. Animal Behaviour, 2002, 64, 85-95.	1.9	46
115	The effects of prior residence on behavior and growth rates in juvenile Atlantic salmon (Salmo salar). Behavioral Ecology, 2000, 11, 13-18.	2.2	44
116	The relative influence of prior residency and dominance on the early feeding behaviour of juvenile Atlantic salmon. Animal Behaviour, 2003, 65, 1141-1149.	1.9	41
117	Sex-specific differences in compensation for poor neonatal nutrition in the zebra finch Taeniopygia guttata. Journal of Avian Biology, 2007, 38, 356-366.	1.2	40
118	The trade-off between growth rate and locomotor performance varies with perceived time until breeding. Journal of Experimental Biology, 2010, 213, 3289-3298.	1.7	40
119	The role of physiology in the divergence of two incipient cichlid species. Journal of Evolutionary Biology, 2011, 24, 2639-2652.	1.7	40
120	Costs of compensation: effect of early life conditions and reproduction on flight performance in zebra finches. Oecologia, 2011, 167, 315-323.	2.0	40
121	Dietary carotenoid availability influences a male's ability to provide parental care. Behavioral Ecology, 2007, 18, 1100-1105.	2.2	38
122	Genome size and longevity. Trends in Genetics, 2000, 16, 331-332.	6.7	37
123	Differences in mitochondrial efficiency explain individual variation in growth performance. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191466.	2.6	37
124	Tit-for-tat cooperation in sticklebacks: a critique of Milinski. Animal Behaviour, 1990, 39, 987-988.	1.9	36
125	Competitive ability influences seaward migration age in Atlantic salmon. Canadian Journal of Zoology, 1991, 69, 815-817.	1.0	36
126	The growth benefits of aggressive behavior vary with individual metabolism and resource predictability. Behavioral Ecology, 2013, 24, 253-261.	2.2	36

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127	Flexibility in metabolic rate and activity level determines individual variation in overwinter performance. Oecologia, 2016, 182, 703-712.	2.0	36
128	Experimental demonstration that offspring fathered by old males have shorter telomeres and reduced lifespans. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180268.	2.6	36
129	Experience-induced preference for short-sworded males in the green swordtail, Xiphophorus helleri. Animal Behaviour, 2008, 76, 271-276.	1.9	35
130	Presence of a conspecific causes divergent changes in resting metabolism, depending on its relative size. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 3989-3993.	2.6	35
131	Multigenerational exposure to elevated temperatures leads to a reduction in standard metabolic rate in the wild. Functional Ecology, 2020, 34, 1205-1214.	3.6	35
132	Inadequate food intake at high temperatures is related to depressed mitochondrial respiratory capacity. Journal of Experimental Biology, 2016, 219, 1356-62.	1.7	34
133	Nutrients from salmon parents alter selection pressures on their offspring. Ecology Letters, 2018, 21, 287-295.	6.4	34
134	Effect of growth compensation on subsequent physical fitness in green swordtails Xiphophorus helleri. Biology Letters, 2006, 2, 39-42.	2.3	33
135	The effect of temperature on growth and early maturation in a wild population of Atlantic salmon parr. Journal of Fish Biology, 2005, 67, 1370-1380.	1.6	32
136	Metabolic Rate Interacts with Resource Availability to Determine Individual Variation in Microhabitat Use in the Wild. American Naturalist, 2020, 196, 132-144.	2.1	32
137	Catch-up growth and swimming performance in threespine sticklebacks (Gasterosteus aculeatus): seasonal changes in the cost of compensation. Canadian Journal of Fisheries and Aquatic Sciences, 2005, 62, 2169-2176.	1.4	31
138	Green swordtails alter their age at maturation in response to the population level of male ornamentation. Biology Letters, 2007, 3, 144-146.	2.3	31
139	Egg hormones in a highly fecund vertebrate: do they influence offspring social structure in competitive conditions?. Functional Ecology, 2011, 25, 1379-1388.	3.6	31
140	Divergence in locomotor activity between two strains of rainbow trout Oncorhynchus mykiss with contrasting stress responsiveness. Journal of Fish Biology, 2006, 68, 920-924.	1.6	30
141	How integument colour reflects its carotenoid content: a sticklebackâ€™s perspective. Functional Ecology, 2011, 25, 297-304.	3.6	30
142	Early maternal experience shapes offspring performance in the wild. Ecology, 2013, 94, 618-626.	3.2	30
143	Simultaneous measurement of mitochondrial respiration and <scp>ATP</scp> production in tissue homogenates and calculation of effective P/O ratios. Physiological Reports, 2016, 4, e13007.	1.7	30
144	Journal impact factors. Nature, 1995, 376, 720-720.	27.8	29

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145	FREQUENCY-DEPENDENT SOCIAL DOMINANCE IN A COLOR POLYMORPHIC CICHLID FISH. Evolution; International Journal of Organic Evolution, 2010, 64, no-no.	2.3	29
146	Tests of the sequential randomness of vigilant behaviour using spectral analysis. Animal Behaviour, 1989, 38, 771-777.	1.9	28
147	Anorexia in one-sea-winter Atlantic salmon (Salmo solar) during summer, associated with sexual maturation. Aquaculture, 1997, 151, 405-409.	3.5	28
148	How are animals with ornaments predicted to compensate for a bad start in life? A dynamic optimization model approach. Functional Ecology, 2005, 19, 421-428.	3.6	27
149	Embryonic and postnatal telomere length decrease with ovulation order within clutches. Scientific Reports, 2016, 6, 25915.	3.3	27
150	Shorter juvenile telomere length is associated with higher survival to spawning in migratory Atlantic salmon. Functional Ecology, 2017, 31, 2070-2079.	3.6	27
151	Telomere elongation during early development is independent of environmental temperatures in Atlantic salmon. Journal of Experimental Biology, 2018, 221, .	1.7	27
152	The cost of aggregation: juvenile salmon avoid sharing winter refuges with siblings. Behavioral Ecology, 2003, 14, 602-606.	2.2	25
153	Avian red blood cell mitochondria produce more heat in winter than in autumn. FASEB Journal, 2021, 35, e21490.	0.5	25
154	Why does dominance decline with age in wintering snow buntings?. Animal Behaviour, 1997, 53, 313-322.	1.9	24
155	Does practice shape the brain?. Nature, 1998, 394, 434-434.	27.8	24
156	Experimental demonstration of differences in sheltering behaviour between Icelandic populations of Atlantic salmon (Salmo salar) and Arctic char (Salvelinus alpinus). Canadian Journal of Fisheries and Aquatic Sciences, 2000, 57, 719-724.	1.4	24
157	Ecological consequences of variation in standard metabolism and dominance among salmon parr. Ecology of Freshwater Fish, 2011, 20, 371-376.	1.4	24
158	The RCR and ATP/O Indices Can Give Contradictory Messages about Mitochondrial Efficiency. Integrative and Comparative Biology, 2018, 58, 486-494.	2.0	24
159	How telomere dynamics are influenced by the balance between mitochondrial efficiency, reactive oxygen species production and DNA damage. Molecular Ecology, 2022, 31, 6040-6052.	3.9	24
160	Flocking Preferences in Relation to Vigilance Benefits and Aggression Costs in Mixed-Species Shorebird Flocks. Oikos, 1989, 56, 91.	2.7	23
161	The effects of latitude and day length on fattening strategies of wintering coal tits Periparus ater (L.): a field study and aviary experiment. Journal of Animal Ecology, 2007, 76, 866-872.	2.8	23
162	Are you what you eat? Micronutritional deficiencies during development influence adult personality-related traits. Animal Behaviour, 2015, 101, 129-140.	1.9	23

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163	Links between parental life histories of wild salmon and the telomere lengths of their offspring. Molecular Ecology, 2018, 27, 804-814.	3.9	23
164	A benign juvenile environment reduces the strength of antagonistic pleiotropy and genetic variation in the rate of senescence. Journal of Animal Ecology, 2016, 85, 705-714.	2.8	22
165	Differential use of local enhancement for finding food by resident and transient siskins. Animal Behaviour, 1988, 36, 1549-1550.	1.9	21
166	Relationship between oxidative stress and circulating testosterone and cortisol in pre-spawning female brown trout. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2012, 163, 379-387.	1.8	21
167	Differential effects of food availability on minimum and maximum rates of metabolism. Biology Letters, 2016, 12, 20160586.	2.3	21
168	Perturbations in growth trajectory due to early diet affect ageâ€related deterioration in performance. Functional Ecology, 2016, 30, 625-635.	3.6	21
169	Individuals exhibit consistent differences in their metabolic rates across changing thermal conditions. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2018, 217, 1-6.	1.8	21
170	An Automated System for Monitoring Fish Activity Patterns. Transactions of the American Fisheries Society, 1997, 126, 1036-1040.	1.4	20
171	Early nutritional conditions, growth trajectories and mate choice: does compensatory growth lead to a reduction in adult sexual attractiveness?. Behavioral Ecology and Sociobiology, 2007, 61, 1007-1014.	1.4	20
172	Interactive effects of early and later nutritional conditions on the adult antioxidant defence system in zebra finches. Journal of Experimental Biology, 2015, 218, 2211-7.	1.7	20
173	Diurnal, Seasonal and Altitudinal Variation in Energy Reserves of Wintering Snow Buntings. Journal of Avian Biology, 1997, 28, 216.	1.2	18
174	The influence of energetic requirements on the preferred temperature of overwintering juvenile Atlantic salmon (Salmo salar). Canadian Journal of Fisheries and Aquatic Sciences, 2001, 58, 762-768.	1.4	18
175	Prey Detection by Intertidally Feeding Lapwing. Zeitschrift FÃ¼r Tierpsychologie, 1985, 67, 45-57.	0.2	18
176	A Comparison of Dynamic-State-Dependent Models of the Trade-Off Between Growth, Damage, and Reproduction. American Naturalist, 2011, 178, 774-786.	2.1	18
177	The association between parental life history and offspring phenotype. Journal of Experimental Biology, 2015, 219, 374-82.	1.7	18
178	Using the MitoB method to assess levels of reactive oxygen species in ecological studies of oxidative stress. Scientific Reports, 2017, 7, 41228.	3.3	18
179	Behavioural causes and consequences of life history variation in fish. Marine and Freshwater Behaviour and Physiology, 1993, 23, 205-217.	0.9	17
180	Experimental demonstration of prenatal programming of mitochondrial aerobic metabolism lasting until adulthood. Proceedings of the Royal Society B: Biological Sciences, 2022, 289, 20212679.	2.6	16

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181	Age, Sex and Prior Site Experience Have Independent Effects On the Foraging Success of Wintering Snow Buntings. Behaviour, 1994, 129, 99-111.	0.8	15
182	Effect of time of day, time of year, and life history strategy on time budgeting in juvenile Atlantic salmon, Salmo salar. Canadian Journal of Fisheries and Aquatic Sciences, 1999, 56, 2397-2403.	1.4	15
183	A hidden cost of reproduction: the tradeâ€off between clutch size and escape takeâ€off speed in female zebra finches. Journal of Animal Ecology, 2001, 70, 20-24.	2.8	15
184	Among-sibling differences in the phenotypes of juvenile fish depend on their location within the egg mass and maternal dominance rank. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20122441.	2.6	15
185	The effect of group size on vigilance in <scp>R</scp>uddy <scp>T</scp>urnstones <scp>A</scp>renaria interpres varies with foraging habitat. Ibis, 2013, 155, 246-257.	1.9	15
186	Where and When To Feed: Sex and Experience Affect Access To Food in Wintering Snow Buntings. Behaviour, 1997, 134, 143-160.	0.8	14
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