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List of Publications by Year
in descending order

55 papers	3,505 citations	257450 24 h-index	189892 50 g-index
57 all docs	57 docs citations	57 times ranked	5296 citing authors

#	Article	IF	Citations
1	Phenotypic plasticity and population viability: the importance of environmental predictability. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 3391-3400.	2.6	352
2	The portfolio concept in ecology and evolution. Frontiers in Ecology and the Environment, 2015, 13, 257-263.	4.0	349
3	Adaptive responses of animals to climate change are most likely insufficient. Nature Communications, 2019, 10, 3109.	12.8	285
4	Interacting Effects of Phenotypic Plasticity and Evolution on Population Persistence in a Changing Climate. Conservation Biology, 2011, 25, 56-63.	4.7	245
5	Phenological mismatch strongly affects individual fitness but not population demography in a woodland passerine. Journal of Animal Ecology, 2013, 82, 131-144.	2.8	215
6	Reproductive Senescence in a Longâ€Lived Seabird: Rates of Decline in Lateâ€Life Performance Are Associated with Varying Costs of Early Reproduction. American Naturalist, 2008, 171, E89-E101.	2.1	200
7	Climate change and marine vertebrates. Science, 2015, 350, 772-777.	12.6	181
8	Population Growth in a Wild Bird Is Buffered Against Phenological Mismatch. Science, 2013, 340, 488-491.	12.6	180
9	Disrupted seasonal biology impacts health, food security and ecosystems. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20151453.	2.6	130
10	Anadromy, potamodromy and residency in brown trout Salmo trutta: the role of genes and the environment. Journal of Fish Biology, 2019, 95, 692-718.	1.6	122
11	Predicting demographically sustainable rates of adaptation: can great tit breeding time keep pace with climate change?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120289.	4.0	115
12	The paradox of â€œpremature migrationâ€•by adult anadromous salmonid fishes: patterns and hypotheses. Canadian Journal of Fisheries and Aquatic Sciences, 2016, 73, 1015-1030.	1.4	113
13	Timing is everything: flexible phenology and shifting selection in a colonial seabird. Journal of Animal Ecology, 2009, 78, 376-387.	2.8	103
14	Time to Evolve? Potential Evolutionary Responses of Fraser River Sockeye Salmon to Climate Change and Effects on Persistence. PLoS ONE, 2011, 6, e20380.	2.5	94
15	Responding to environmental change: plastic responses vary little in a synchronous breeder. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 2713-2719.	2.6	93
16	Why climate change will invariably alter selection pressures on phenology. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20141611.	2.6	86
17	Environmental and genetic determinants of innovativeness in a natural population of birds. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150184.	4.0	49
18	Timing in a fluctuating environment: environmental variability and asymmetric fitness curves can lead to adaptively mismatched avian reproduction. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 3161-3169.	2.6	46

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19	Longitudinal bio-logging reveals interplay between extrinsic and intrinsic carry-over effects in a long-lived vertebrate. Ecology, 2014, 95, 2077-2083.	3.2	42
20	Falseâ€negative detections from environmental DNA collected in the presence of large numbers of killer whales (Orcinus orca). Environmental DNA, 2019, 1, 316-328.	5.8	32
21	Quantifying heritable variation in fitness-related traits of wild, farmed and hybrid Atlantic salmon families in a wild river environment. Heredity, 2015, 115, 173-184.	2.6	31
22	Captive-bred Atlantic salmon released into the wild have fewer offspring than wild-bred fish and decrease population productivity. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20201671.	2.6	30
23	A Comparison of the Efficacy of Pond-Net and Box Sampling Methods in Turloughs â€“ Irish Ephemeral Aquatic Systems. Hydrobiologia, 2004, 524, 133-144.	2.0	28
24	Skipped breeding in common guillemots in a changing climate: restraint or constraint?. Frontiers in Ecology and Evolution, 2015, 3, .	2.2	28
25	Parasite Treatment Affects Maternal Investment in Sons. Science, 2008, 321, 1681-1682.	12.6	27
26	The Interplay Between Extrinsic and Intrinsic Factors in Determining Migration Decisions in Brown Trout (Salmo trutta): An Experimental Study. Frontiers in Ecology and Evolution, 2019, 7, .	2.2	24
27	The ecological causes and consequences of hard and soft selection. Ecology Letters, 2021, 24, 1505-1521.	6.4	24
28	Parasitism in early life: environmental conditions shape withinâ€brood variation in responses to infection. Ecology and Evolution, 2014, 4, 3408-3419.	1.9	21
29	Density dependence and microevolution interactively determine effects of phenology mismatch on population dynamics. Oikos, 2015, 124, 81-91.	2.7	20
30	Molecular pedigree reconstruction and estimation of evolutionary parameters in a wild Atlantic salmon river system with incomplete sampling: a power analysis. BMC Evolutionary Biology, 2014, 14, 68.	3.2	19
31	Response of chinook salmon to climate change. Nature Climate Change, 2015, 5, 613-615.	18.8	19
32	Feather mass and winter moult extent are heritable but not associated with fitness-related traits in a long-distance migratory bird. Evolutionary Ecology, 2013, 27, 1199-1216.	1.2	18
33	Food and temperature stressors have opposing effects in determining flexible migration decisions in brown trout (Salmo trutta). Global Change Biology, 2020, 26, 2878-2896.	9.5	18
34	Impacts of Parasites in Early Life: Contrasting Effects on Juvenile Growth for Different Family Members. PLoS ONE, 2012, 7, e32236.	2.5	16
35	Testing for biases in selection on avian reproductive traits and partitioning direct and indirect selection using quantitative genetic models. Evolution; International Journal of Organic Evolution, 2016, 70, 2211-2225.	2.3	15
36	Evolutionary stasis of a heritable morphological trait in a wild fish population despite apparent directional selection. Ecology and Evolution, 2019, 9, 7096-7111.	1.9	14

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37	The signature of fine scale local adaptation in Atlantic salmon revealed from common garden experiments inÂnature. Evolutionary Applications, 2015, 8, 881-900.	3.1	13
38	Lakeâ€specific variation in growth, migration timing and survival of juvenile sockeye salmon Oncorhynchus nerka: separating environmental from genetic influences. Journal of Fish Biology, 2010, 77, 692-705.	1.6	12
39	Availability of holding habitat in lakes and rivers affects the incidence of spring (premature) upriver migration by Atlantic salmon. Canadian Journal of Fisheries and Aquatic Sciences, 2017, 74, 668-679.	1.4	11
40	Telemetry and genetics reveal asymmetric dispersal of aÂlakeâ€feeding salmonid between inflow and outflow spawning streams at a microgeographic scale. Ecology and Evolution, 2020, 10, 1762-1783.	1.9	11
41	Heritability estimation via molecular pedigree reconstruction in a wild fish population reveals substantial evolutionary potential for sea age at maturity, but not size within age classes. Canadian Journal of Fisheries and Aquatic Sciences, 2019, 76, 790-805.	1.4	10
42	Spawning-related movements in a salmonid appear timed to reduce exposure to visually oriented predators. Animal Behaviour, 2020, 170, 65-79.	1.9	10
43	Metabolic traits in brown trout (Salmo trutta) vary in response to food restriction and intrinsic factors. , 2020, 8, coaa096.		9
44	Entomological Surveillance as a Cornerstone of Malaria Elimination: A Critical Appraisal. , 0, , .		8
45	Evolution and Expression of the Immune System of a Facultatively Anadromous Salmonid. Frontiers in Immunology, 2021, 12, 568729.	4.8	7
46	Associations between metabolic traits and growth rate in brown trout (Salmo trutta) depend on thermal regime. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20211509.	2.6	6
47	Escalating the conflict? Intersex genetic correlations influence adaptation to environmental change in facultatively migratory populations. Evolutionary Applications, 2022, 15, 773-789.	3.1	6
48	Maternal Effects in a Wild Songbird Are Environmentally Plastic but Only Marginally Alter the Rate of Adaptation. American Naturalist, 2018, 191, E144-E158.	2.1	5
49	Directional selection and the evolution of breeding date in birds, revisited: Hard selection and the evolution of plasticity. Evolution Letters, 2022, 6, 178-188.	3.3	5
50	Alternative migratory tactics in brown trout (Salmo trutta) are underpinned by divergent regulation of metabolic but not neurological genes. Ecology and Evolution, 2021, 11, 8347-8362.	1.9	3
51	Development of a Doubleâ€Breakaway Passâ€Through PIT Tag Antenna System for Floodâ€Prone Rivers. North American Journal of Fisheries Management, 2020, 40, 952-958.	1.0	2
52	Hyper- and Hypo-Osmoregulatory Performance of Atlantic Salmon (Salmo salar) Smolts Infected With Pomphorhynchus tereticollis (Acanthocephala). Frontiers in Ecology and Evolution, 2021, 9, .	2.2	1
53	Population genetics reveal patterns of natural colonisation of an ecologically and commercially important invasive fish. Canadian Journal of Fisheries and Aquatic Sciences, 0, , 1-15.	1.4	1
54	The portfolio effect cushions mosquito populations and malaria transmission against vector control interventions. Malaria Journal, 2018, 17, 291.	2.3	0

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55	Can Arctic seabirds adapt to climate change?. Functional Ecology, 2019, 33, 2068-2070.	3.6	0