Michael B Morrissey

List of Publications by Year in Descending Order

68 papers	3,056 citations	28 h-index	55 g-index
75 ext. papers	3,803 ext. citations	6.4 avg, IF	5.63 L-index

#	Paper	IF	Citations
68	A synthesis of senescence predictions for indeterminate growth, and support from multiple tests in wild lake trout.. *Proceedings of the Royal Society B: Biological Sciences*, **2022**, 289, 20212146	4.4	0
67	Genetic variance in fitness indicates rapid contemporary adaptive evolution in wild animals. *Science*, **2022**, 376, 1012-1016	33.3	8
66	Animal personality adds complexity to the processes of divergence between sympatric morphs of Arctic charr. *Animal Behaviour*, **2021**, 175, 57-73	2.8	0
65	The distinction between repeatability and correlation in studies of animal behaviour. *Animal Behaviour*, **2021**, 175, 201-217	2.8	2
64	Horn growth appears to decline under intense trophy hunting, but biases in hunt data challenge the interpretation of the evolutionary basis of trends. *Evolutionary Applications*, **2021**, 14, 1519-1527	4.8	3
63	Re-identification of individuals from images using spot constellations: a case study in Arctic charr (). *Royal Society Open Science*, **2021**, 8, 201768	3.3	0
62	Multivariate analysis of morphology, behaviour, growth and developmental timing in hybrids brings new insights into the divergence of sympatric Arctic charr morphs. *Bmc Ecology and Evolution*, **2021**, 21, 170	21	0
61	Revisiting advice on the analysis of count data. *Methods in Ecology and Evolution*, **2020**, 11, 1133-1140	7.7	2
60	Fluctuating optimum and temporally variable selection on breeding date in birds and mammals. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 31969-31978	11.5	24
59	Quantifying the causal pathways contributing to natural selection. *Evolution; International Journal of Organic Evolution*, **2020**, 74, 2560-2574	3.8	7
58	No evidence that warmer temperatures are associated with selection for smaller body sizes. *Proceedings of the Royal Society B: Biological Sciences*, **2019**, 286, 20191332	4.4	22
57	Pedigree-Based Estimation of Reproductive Value. *Journal of Heredity*, **2019**, 110, 433-444	2.4	2
56	Estimation of Genetic Variance in Fitness, and Inference of Adaptation, When Fitness Follows a Log-Normal Distribution. *Journal of Heredity*, **2019**, 110, 383-395	2.4	12
55	Analogues of the fundamental and secondary theorems of selection, assuming a log-normal distribution of expected fitness. *Journal of Heredity*, **2019**, 110, 396-402	2.4	8
54	The role of selection and evolution in changing parturition date in a red deer population. *PLoS Biology*, **2019**, 17, e3000493	9.7	26
53	A note on simulating null distributions for G matrix comparisons. *Evolution; International Journal of Organic Evolution*, **2019**, 73, 2512-2517	3.8	3
52	Evolutionary Quantitative Genetics **2019**, 421-30		1

51	Quantification and decomposition of environment-selection relationships. *Evolution; International Journal of Organic Evolution*, **2018**, 72, 851-866	3.8	14
50	Response to Comment on "Precipitation drives global variation in natural selection". *Science*, **2018**, 359,	33.3	2
49	Fixed-effect variance and the estimation of repeatabilities and heritabilities: issues and solutions. *Journal of Evolutionary Biology*, **2018**, 31, 621-632	2.3	41
48	Natural selection for body shape in resource polymorphic Icelandic Arctic charr. *Journal of Evolutionary Biology*, **2018**, 31, 1498-1512	2.3	6
47	Multiple Regression Is Not Multiple Regressions: The Meaning of Multiple Regression and the Non-Problem of Collinearity. *Philosophy Theory and Practice in Biology*, **2018**, 10,	2	19
46	Precipitation drives global variation in natural selection. *Science*, **2017**, 355, 959-962	33.3	187
45	Inference of selection gradients using performance measures as fitness proxies. *Methods in Ecology and Evolution*, **2017**, 8, 663-677	7.7	13
44	Towards robust evolutionary inference with integral projection models. *Journal of Evolutionary Biology*, **2017**, 30, 270-288	2.3	19
43	What Are the Environmental Determinants of Phenotypic Selection? A Meta-analysis of Experimental Studies. *American Naturalist*, **2017**, 190, 363-376	3.7	42
42	Discovery of species-wide tool use in the Hawaiian crow. *Nature*, **2016**, 537, 403-7	50.4	62
41	Variation in reaction norms: Statistical considerations and biological interpretation. *Evolution; International Journal of Organic Evolution*, **2016**, 70, 1944-59	3.8	39
40	Rejoinder: Further considerations for meta-analysis of transformed quantities such as absolute values. *Journal of Evolutionary Biology*, **2016**, 29, 1922-1931	2.3	8
39	Multivariate selection and intersexual genetic constraints in a wild bird population. *Journal of Evolutionary Biology*, **2016**, 29, 2022-2035	2.3	8
38	General Methods for Evolutionary Quantitative Genetic Inference from Generalized Mixed Models. *Genetics*, **2016**, 204, 1281-1294	4	91
37	Meta-analysis of magnitudes, differences and variation in evolutionary parameters. *Journal of Evolutionary Biology*, **2016**, 29, 1882-1904	2.3	85
36	Experimental resource pulses influence social-network dynamics and the potential for information flow in tool-using crows. *Nature Communications*, **2015**, 6, 7197	17.4	36
35	Calibrating animal-borne proximity loggers. *Methods in Ecology and Evolution*, **2015**, 6, 656-667	7.7	20
34	Evolutionary quantitative genetics of nonlinear developmental systems. *Evolution; International Journal of Organic Evolution*, **2015**, 69, 2050-66	3.8	29

33	Interplay of robustness and plasticity of life-history traits drives ecotypic differentiation in thermally distinct habitats. *Journal of Evolutionary Biology*, **2015**, 28, 1057-66	2.3	13
32	Robust estimates of environmental effects on population vital rates: an integrated capture-recapture model of seasonal brook trout growth, survival and movement in a stream network. *Journal of Animal Ecology*, **2015**, 84, 337-52	4.7	59
31	In search of the best methods for multivariate selection analysis. *Methods in Ecology and Evolution*, **2014**, 5, 1095-1109	7.7	17
30	Selection and evolution of causally covarying traits. *Evolution; International Journal of Organic Evolution*, **2014**, 68, 1748-61	3.8	49
29	A multivariate analysis of genetic constraints to life history evolution in a wild population of red deer. *Genetics*, **2014**, 198, 1735-49	4	32
28	Bayesian approaches to the quantitative genetic analysis of natural populations **2014**, 228-253		16
27	Unification of regression-based methods for the analysis of natural selection. *Evolution; International Journal of Organic Evolution*, **2013**, 67, 2094-100	3.8	60
26	The spatial patterns of directional phenotypic selection. *Ecology Letters*, **2013**, 16, 1382-92	10	150
25	The prediction of adaptive evolution: empirical application of the secondary theorem of selection and comparison to the breeder's equation. *Evolution; International Journal of Organic Evolution*, **2012**, 66, 2399-410	3.8	86
24	Phenological and phenotypic changes in Atlantic salmon populations in response to a changing climate. *ICES Journal of Marine Science*, **2012**, 69, 1686-1698	2.7	30
23	Genetic analysis of life-history constraint and evolution in a wild ungulate population. *American Naturalist*, **2012**, 179, E97-114	3.7	43
22	Directional selection in temporally replicated studies is remarkably consistent. *Evolution; International Journal of Organic Evolution*, **2012**, 66, 435-42	3.8	156
21	Indirect genetics effects and evolutionary constraint: an analysis of social dominance in red deer, Cervus elaphus. *Journal of Evolutionary Biology*, **2011**, 24, 772-83	2.3	105
20	Genetic divergence among broodstocks of Arctic charr Salvelinus alpinus in eastern Canada derived from the same founding populations. *Aquaculture Research*, **2011**, 42, 1440-1452	1.9	5
19	Individual variation in movement throughout the life cycle of a stream-dwelling salmonid fish. *Molecular Ecology*, **2011**, 20, 235-48	5.7	25
18	Exploiting natural history variation: looking to fishes for quantitative genetic models of natural populations. *Ecology of Freshwater Fish*, **2011**, 20, 328-345	2.1	5
17	A test for the genetic basis of natural selection: an individual-based longitudinal study in a stream-dwelling fish. *Evolution; International Journal of Organic Evolution*, **2011**, 65, 1037-47	3.8	8
16	Evolution of adaptive diversity and genetic connectivity in Arctic charr (Salvelinus alpinus) in Iceland. *Heredity*, **2011**, 106, 472-87	3.6	50

List of Publications

15	An ecologistʊ guide to the animal model. *Journal of Animal Ecology*, **2010**, 79, 13-26	4.7	645
14	The genetic basis of early-life morphological traits and their relation to alternative male reproductive tactics in Atlantic salmon. *Journal of Evolutionary Biology*, **2010**, 23, 757-68	2.3	27
13	The danger of applying the breederʊ equation in observational studies of natural populations. *Journal of Evolutionary Biology*, **2010**, 23, 2277-88	2.3	163
12	pedantics: an r package for pedigree-based genetic simulation and pedigree manipulation, characterization and viewing. *Molecular Ecology Resources*, **2010**, 10, 711-9	8.4	113
11	The maintenance of genetic variation due to asymmetric gene flow in dendritic metapopulations. *American Naturalist*, **2009**, 174, 875-89	3.7	122
10	Marker-assisted determination of the relationship between body size and reproductive success and consequences for evaluation of adaptive life histories. *Molecular Ecology*, **2009**, 18, 4330-40	5.7	6
9	A framework for power and sensitivity analyses for quantitative genetic studies of natural populations, and case studies in Soay sheep (Ovis aries). *Journal of Evolutionary Biology*, **2007**, 20, 2309-21	2.3	56
8	Incidence and Physiological Consequences of Decompression in Smallmouth Bass after Live-Release Angling Tournaments. *Transactions of the American Fisheries Society*, **2005**, 134, 1038-1047	1.7	44
7	The potential costs of accounting for genotypic errors in molecular parentage analyses. *Molecular Ecology*, **2005**, 14, 4111-21	5.7	33
6	Physiological Changes in Largemouth Bass Caused by Live-Release Angling Tournaments in Southeastern Ontario. *North American Journal of Fisheries Management*, **2003**, 23, 760-769	1.1	73
5	Physiological Responses of Walleyes to Live-Release Angling Tournaments. *North American Journal of Fisheries Management*, **2003**, 23, 1238-1246	1.1	19
4	Causation, not collinearity: Identifying sources of bias when modelling the evolution of brain size and other allometric traits. *Evolution Letters*,	5.3	1
3	A synthesis of senescence predictions for indeterminate growth, and support from multiple tests in wild lake trout		1
2	Selection of lamb size and early pregnancy in Soay sheep (Ovies aries)		2
1	General methods for evolutionary quantitative genetic inference from generalised mixed models		1