Michael B Morrissey

List of Publications by Year
in descending order

66 papers	4,257 citations	136940 32 h-index	128286 60 g-index
75 all docs	75 docs citations	75 times ranked	4803 citing authors

#	Article	IF	Citations
1	An ecologist's guide to the animal model. Journal of Animal Ecology, 2010, 79, 13-26.	2.8	849
2	Precipitation drives global variation in natural selection. Science, 2017, 355, 959-962.	12.6	267
3	The danger of applying the breeder's equation in observational studies of natural populations. Journal of Evolutionary Biology, 2010, 23, 2277-2288.	1.7	212
4	DIRECTIONAL SELECTION IN TEMPORALLY REPLICATED STUDIES IS REMARKABLY CONSISTENT. Evolution; International Journal of Organic Evolution, 2012, 66, 435-442.	2.3	187
5	The spatial patterns of directional phenotypic selection. Ecology Letters, 2013, 16, 1382-1392.	6.4	183
6	The Maintenance of Genetic Variation Due to Asymmetric Gene Flow in Dendritic Metapopulations. American Naturalist, 2009, 174, 875-889.	2.1	158
7	General Methods for Evolutionary Quantitative Genetic Inference from Generalized Mixed Models. Genetics, 2016, 204, 1281-1294.	2.9	156
8	<scp>pedantics:</scp> an <scp>r</scp> package for pedigree-based genetic simulation and pedigree manipulation, characterization and viewing. Molecular Ecology Resources, 2010, 10, 711-719.	4.8	135
9	Indirect genetics effects and evolutionary constraint: an analysis of social dominance in red deer, Cervus elaphus. Journal of Evolutionary Biology, 2011, 24, 772-783.	1.7	128
10	Meta-analysis of magnitudes, differences and variation in evolutionary parameters. Journal of Evolutionary Biology, 2016, 29, 1882-1904.	1.7	120
11	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, 2399-2410.	2.3	119
12	Discovery of species-wide tool use in the Hawaiian crow. Nature, 2016, 537, 403-407.	27.8	88
13	Physiological Changes in Largemouth Bass Caused by Live-Release Angling Tournaments in Southeastern Ontario. North American Journal of Fisheries Management, 2003, 23, 760-769.	1.0	82
14	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, 337-352.	2.8	82
15	UNIFICATION OF REGRESSION-BASED METHODS FOR THE ANALYSIS OF NATURAL SELECTION. Evolution; International Journal of Organic Evolution, 2013, 67, 2094-2100.	2.3	80
16	Fixed-effect variance and the estimation of repeatabilities and heritabilities: issues and solutions. Journal of Evolutionary Biology, 2018, 31, 621-632.	1.7	73
17	Evolution of adaptive diversity and genetic connectivity in Arctic charr (Salvelinus alpinus) in Iceland. Heredity, 2011, 106, 472-487.	2.6	69
18	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.	7.1	69

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19	Genetic variance in fitness indicates rapid contemporary adaptive evolution in wild animals. Science, 2022, 376, 1012-1016.	12.6	69
20	SELECTION AND EVOLUTION OF CAUSALLY COVARYING TRAITS. Evolution; International Journal of Organic Evolution, 2014, 68, 1748-1761.	2.3	67
21	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, 2309-2321.	1.7	62
22	What Are the Environmental Determinants of Phenotypic Selection? A Meta-analysis of Experimental Studies. American Naturalist, 2017, 190, 363-376.	2.1	60
23	Incidence and Physiological Consequences of Decompression in Smallmouth Bass after Live-Release Angling Tournaments. Transactions of the American Fisheries Society, 2005, 134, 1038-1047.	1.4	52
24	Genetic Analysis of Life-History Constraint and Evolution in a Wild Ungulate Population. American Naturalist, 2012, 179, E97-E114.	2.1	52
25	Variation in reaction norms: Statistical considerations and biological interpretation. Evolution; International Journal of Organic Evolution, 2016, 70, 1944-1959.	2.3	52
26	The role of selection and evolution in changing parturition date in a red deer population. PLoS Biology, 2019, 17, e3000493.	5.6	52
27	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, .	0.7	48
28	Experimental resource pulses influence social-network dynamics and the potential for information flow in tool-using crows. Nature Communications, 2015, 6, 7197.	12.8	46
29	Evolutionary quantitative genetics of nonlinear developmental systems. Evolution; International Journal of Organic Evolution, 2015, 69, 2050-2066.	2.3	45
30	Phenological and phenotypic changes in Atlantic salmon populations in response to a changing climate. ICES Journal of Marine Science, 2012, 69, 1686-1698.	2.5	42
31	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, 757-768.	1.7	39
32	A Multivariate Analysis of Genetic Constraints to Life History Evolution in a Wild Population of Red Deer. Genetics, 2014, 198, 1735-1749.	2.9	37
33	The potential costs of accounting for genotypic errors in molecular parentage analyses. Molecular Ecology, 2005, 14, 4111-4121.	3.9	35
34	No evidence that warmer temperatures are associated with selection for smaller body sizes. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191332.	2.6	35
35	Calibrating animal-borne proximity loggers. Methods in Ecology and Evolution, 2015, 6, 656-667.	5.2	28
36	Individual variation in movement throughout the life cycle of a stream-dwelling salmonid fish. Molecular Ecology, 2011, 20, 235-248.	3.9	27

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37	In search of the best methods for multivariate selection analysis. Methods in Ecology and Evolution, 2014, 5, 1095-1109.	5.2	27
38	Physiological Responses of Walleyes to Live-Release Angling Tournaments. North American Journal of Fisheries Management, 2003, 23, 1238-1246.	1.0	25
39	Bayesian approaches to the quantitative genetic analysis of natural populations. , 2014, , 228-253.		25
40	Towards robust evolutionary inference with integral projection models. Journal of Evolutionary Biology, 2017, 30, 270-288.	1.7	24
41	Inference of selection gradients using performance measures as fitness proxies. Methods in Ecology and Evolution, 2017, 8, 663-677.	5.2	22
42	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	20
43	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	18
44	Quantification and decomposition of environment-selection relationships. Evolution; International Journal of Organic Evolution, 2018, 72, 851-866.	2.3	17
45	Quantifying the causal pathways contributing to natural selection. Evolution; International Journal of Organic Evolution, 2020, 74, 2560-2574.	2.3	16
46	Interplay of robustness and plasticity of life‐history traits drives ecotypic differentiation in thermally distinct habitats. Journal of Evolutionary Biology, 2015, 28, 1057-1066.	1.7	14
47	Multivariate selection and intersexual genetic constraints in a wild bird population. Journal of Evolutionary Biology, 2016, 29, 2022-2035.	1.7	13
48	Pedigree-Based Estimation of Reproductive Value. Journal of Heredity, 2019, 110, 433-444.	2.4	13
49	Rejoinder: Further considerations for meta‐analysis of transformed quantities such as absolute values. Journal of Evolutionary Biology, 2016, 29, 1922-1931.	1.7	12
50	Natural selection for body shape in resource polymorphic Icelandic Arctic charr. Journal of Evolutionary Biology, 2018, 31, 1498-1512.	1.7	12
51	Analytical results for directional and quadratic selection gradients for log‐linear models of fitness functions. Evolution; International Journal of Organic Evolution, 2022, 76, 1378-1390.	2.3	11
52	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.	2.6	10
53	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, 1037-1047.	2.3	9
54	A note on simulating null distributions for G matrix comparisons. Evolution; International Journal of Organic Evolution, 2019, 73, 2512-2517.	2.3	8

#	ARTICLE	IF	CITATIONS
55	Marker‐assisted determination of the relationship between body size and reproductive success and consequences for evaluation of adaptive life histories. Molecular Ecology, 2009, 18, 4330-4340.	3.9	6
56	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.	3.1	6
57	Genetic divergence among broodstocks of Arctic charr Salvelinus alpinus in eastern Canada derived from the same founding populations. Aquaculture Research, 2011, 42, 1440-1452.	1.8	5
58	Exploiting natural history variation: looking to fishes for quantitative genetic models of natural populations. Ecology of Freshwater Fish, 2011, 20, 328-345.	1.4	5
59	The distinction between repeatability and correlation in studies of animal behaviour. Animal Behaviour, 2021, 175, 201-217.	1.9	5
60	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.	1.6	5
61	Causation, not collinearity: Identifying sources of bias when modelling the evolution of brain size and other allometric traits. Evolution Letters, 2022, 6, 234-244.	3.3	5
62	Revisiting advice on the analysis of count data. Methods in Ecology and Evolution, 2020, 11, 1133-1140.	5.2	3
63	Animal personality adds complexity to the processes of divergence between sympatric morphs of Arctic charr. Animal Behaviour, 2021, 175, 57-73.	1.9	3
64	Response to Comment on "Precipitation drives global variation in natural selection" Science, 2018, 359, .	12.6	2
65	Re-identification of individuals from images using spot constellations: a case study in Arctic charr (*Salvelinus alpinus*). Royal Society Open Science, 2021, 8, 201768.	2.4	2
66	Into the wild—WAMBAM goes to Canada. Molecular Ecology, 2018, 27, 1098-1102.	3.9	1