

Andrew G Mcadam

List of Publications by Year in descending order

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Version: 2024-02-01

112
papers

5,190
citations

94269

37
h-index

106150

65
g-index

134
all docs

134
docs citations

134
times ranked

5045
citing authors

#	ARTICLE	IF	CITATIONS
1	Genetic and plastic responses of a northern mammal to climate change. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 591-596.	1.2	383
2	Density Triggers Maternal Hormones That Increase Adaptive Offspring Growth in a Wild Mammal. <i>Science</i> , 2013, 340, 1215-1217.	6.0	336
3	Anticipatory Reproduction and Population Growth in Seed Predators. <i>Science</i> , 2006, 314, 1928-1930.	6.0	214
4	Keeping Pace with Fast Climate Change: Can Arctic Life Count on Evolution?. <i>Integrative and Comparative Biology</i> , 2004, 44, 140-151.	0.9	207
5	Self-recognition, color signals, and cycles of greenbeard mutualism and altruism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 7372-7377.	3.3	154
6	Seasonal, spatial, and maternal effects on gut microbiome in wild red squirrels. <i>Microbiome</i> , 2017, 5, 163.	4.9	148
7	Life histories of female red squirrels and their contributions to population growth and lifetime fitness. <i>Ecoscience</i> , 2007, 14, 362.	0.6	130
8	MATERNAL EFFECTS AND THE POTENTIAL FOR EVOLUTION IN A NATURAL POPULATION OF ANIMALS. <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 846-851.	1.1	121
9	Fecal cortisol metabolite levels in free-ranging North American red squirrels: Assay validation and the effects of reproductive condition. <i>General and Comparative Endocrinology</i> , 2010, 167, 279-286.	0.8	110
10	The functional response of a hoarding seed predator to mast seeding. <i>Ecology</i> , 2010, 91, 2673-2683.	1.5	102
11	Associations between overwinter survival and resting metabolic rate in juvenile North American red squirrels. <i>Functional Ecology</i> , 2010, 24, 597-607.	1.7	102
12	Cohort effects in red squirrels: the influence of density, food abundance and temperature on future survival and reproductive success. <i>Journal of Animal Ecology</i> , 2008, 77, 305-314.	1.3	100
13	Expenditure freeze: the metabolic response of small mammals to cold environments. <i>Ecology Letters</i> , 2005, 8, 1326-1333.	3.0	99
14	Archiving Primary Data: Solutions for Long-Term Studies. <i>Trends in Ecology and Evolution</i> , 2015, 30, 581-589.	4.2	98
15	LIFETIME SELECTION ON HERITABLE LIFE-HISTORY TRAITS IN A NATURAL POPULATION OF RED SQUIRRELS. <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 2416-2423.	1.1	93
16	Causes of maladaptation. <i>Evolutionary Applications</i> , 2019, 12, 1229-1242.	1.5	85
17	VARIATION IN VIABILITY SELECTION AMONG COHORTS OF JUVENILE RED SQUIRRELS (TAMIASCIURUS) Tj ETQq1 1 0,784314,rgBT /O	1.1	84
18	Low heritabilities, but genetic and maternal correlations between red squirrel behaviours. <i>Journal of Evolutionary Biology</i> , 2012, 25, 614-624.	0.8	83

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19	OXIDATIVE DAMAGE INCREASES WITH REPRODUCTIVE ENERGY EXPENDITURE AND IS REDUCED BY FOOD-SUPPLEMENTATION. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 67, no-no.	1.1	78
20	Vigilance as a benefit of intermittent locomotion in small mammals. <i>Animal Behaviour</i> , 1998, 55, 109-117.	0.8	76
21	INTRALOCUS SEXUAL CONFLICT OVER IMMUNE DEFENSE, GENDER LOAD, AND SEX-SPECIFIC SIGNALING IN A NATURAL LIZARD POPULATION. <i>Evolution; International Journal of Organic Evolution</i> , 2009, 63, 3124-3135.	1.1	76
22	Constraints to projecting the effects of climate change on mammals. <i>Climate Research</i> , 2006, 32, 151-158.	0.4	75
23	Survival costs of reproduction vary with age in North American red squirrels. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 1129-1135.	1.2	74
24	Fluctuating optimum and temporally variable selection on breeding date in birds and mammals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31969-31978.	3.3	69
25	Genetic variance in fitness indicates rapid contemporary adaptive evolution in wild animals. <i>Science</i> , 2022, 376, 1012-1016.	6.0	69
26	Effects of food abundance on genetic and maternal variation in the growth rate of juvenile red squirrels. <i>Journal of Evolutionary Biology</i> , 2003, 16, 1249-1256.	0.8	67
27	Behavioral responses of territorial red squirrels to natural and experimental variation in population density. <i>Behavioral Ecology and Sociobiology</i> , 2012, 66, 865-878.	0.6	65
28	How does diet affect fecal steroid hormone metabolite concentrations? An experimental examination in red squirrels. <i>General and Comparative Endocrinology</i> , 2011, 174, 124-131.	0.8	62
29	Persistent maternal effects on juvenile survival in North American red squirrels. <i>Biology Letters</i> , 2007, 3, 289-291.	1.0	60
30	Maternal effects and the response to selection in red squirrels. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 75-79.	1.2	52
31	Reproductive timing and reliance on hoarded capital resources by lactating red squirrels. <i>Oecologia</i> , 2013, 173, 1203-1215.	0.9	51
32	Dietary protein constraint on age at maturity: an experimental test with wild deer mice. <i>Journal of Animal Ecology</i> , 1999, 68, 733-740.	1.3	50
33	Indirect genetic effects clarify how traits can evolve even when fitness does not. <i>Evolution Letters</i> , 2019, 3, 4-14.	1.6	45
34	Adaptive social and maternal induction of antipredator dorsal patterns in a lizard with alternative social strategies. <i>Ecology Letters</i> , 2007, 10, 798-808.	3.0	44
35	Social traits, social networks and evolutionary biology. <i>Journal of Evolutionary Biology</i> , 2017, 30, 2088-2103.	0.8	44
36	Very low levels of direct additive genetic variance in fitness and fitness components in a red squirrel population. <i>Ecology and Evolution</i> , 2014, 4, 1729-1738.	0.8	43

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37	Light loggers reveal weather-driven changes in the daily activity patterns of arboreal and semifossorial rodents. <i>Journal of Mammalogy</i> , 2014, 95, 1230-1239.	0.6	43
38	Reproductive phenology of a food-hoarding mast-seed consumer: resource- and density-dependent benefits of early breeding in red squirrels. <i>Oecologia</i> , 2014, 174, 777-788.	0.9	41
39	Adopting kin enhances inclusive fitness in asocial red squirrels. <i>Nature Communications</i> , 2010, 1, 22.	5.8	40
40	Seasonal stage differences overwhelm environmental and individual factors as determinants of energy expenditure in free-ranging red squirrels. <i>Functional Ecology</i> , 2012, 26, 677-687.	1.7	40
41	Linking intraspecific variation in territory size, cone supply, and survival of North American red squirrels. <i>Journal of Mammalogy</i> , 2013, 94, 1048-1058.	0.6	40
42	Multilevel and sex-specific selection on competitive traits in North American red squirrels. <i>Evolution; International Journal of Organic Evolution</i> , 2017, 71, 1841-1854.	1.1	39
43	Communal nesting in an "asocial" mammal: social thermoregulation among spatially dispersed kin. <i>Behavioral Ecology and Sociobiology</i> , 2013, 67, 757-763.	0.6	35
44	Attentive red squirrel mothers have faster growing pups and higher lifetime reproductive success. <i>Behavioral Ecology and Sociobiology</i> , 2020, 74, 1.	0.6	34
45	Familiar Neighbors, but Not Relatives, Enhance Fitness in a Territorial Mammal. <i>Current Biology</i> , 2021, 31, 438-445.e3.	1.8	33
46	Familiarity with neighbours affects intrusion risk in territorial red squirrels. <i>Animal Behaviour</i> , 2017, 133, 11-20.	0.8	32
47	Maturation costs of reproduction due to clutch size and ontogenetic conflict as revealed in the invisible fraction. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 629-638.	1.2	31
48	Selection on female behaviour fluctuates with offspring environment. <i>Journal of Evolutionary Biology</i> , 2014, 27, 2308-2321.	0.8	31
49	Behavioral classification of low-frequency acceleration and temperature data from a free-ranging small mammal. <i>Ecology and Evolution</i> , 2019, 9, 619-630.	0.8	31
50	Within-Season Synchrony of a Masting Conifer Enhances Seed Escape. <i>American Naturalist</i> , 2012, 179, 536-544.	1.0	28
51	Individual variation in phenotypic plasticity of the stress axis. <i>Biology Letters</i> , 2019, 15, 20190260.	1.0	28
52	Red squirrels use territorial vocalizations for kin discrimination. <i>Animal Behaviour</i> , 2015, 107, 79-85.	0.8	27
53	Decoupling the effects of food and density on life-history plasticity of wild animals using field experiments: Insights from the steward who sits in the shadow of its tail, the North American red squirrel. <i>Journal of Animal Ecology</i> , 2020, 89, 2397-2414.	1.3	27
54	Lactating red squirrels experiencing high heat load occupy less insulated nests. <i>Biology Letters</i> , 2009, 5, 166-168.	1.0	26

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55	MATERNAL ADJUSTMENT OF EGG SIZE ORGANIZES ALTERNATIVE ESCAPE BEHAVIORS, PROMOTING ADAPTIVE PHENOTYPIC INTEGRATION. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 1607-1621.	1.1	26
56	The nature of nurture in a wild mammal's fitness. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20142422.	1.2	26
57	Phenological shifts in North American red squirrels: disentangling the roles of phenotypic plasticity and microevolution. <i>Journal of Evolutionary Biology</i> , 2018, 31, 810-821.	0.8	26
58	The new kid on the block: immigrant males win big whereas females pay fitness cost after dispersal. <i>Ecology Letters</i> , 2020, 23, 430-438.	3.0	26
59	Maternal androgens and behaviour in free-ranging North American red squirrels. <i>Animal Behaviour</i> , 2011, 81, 469-479.	0.8	25
60	Life on the edge: the demography of short-season populations of deer mice. <i>Oikos</i> , 2001, 93, 69-76.	1.2	24
61	Reducing accidental shrew mortality associated with small-mammal livetrapping II: a field experiment with bait supplementation. <i>Journal of Mammalogy</i> , 2013, 94, 754-760.	0.6	24
62	Post-weaning parental care increases fitness but is not heritable in North American red squirrels. <i>Journal of Evolutionary Biology</i> , 2015, 28, 1203-1212.	0.8	24
63	Experimental evidence that density mediates negative frequency-dependent selection on aggression. <i>Journal of Animal Ecology</i> , 2018, 87, 1091-1101.	1.3	24
64	Seed Masting Causes Fluctuations in Optimum Litter Size and Lag Load in a Seed Predator. <i>American Naturalist</i> , 2019, 194, 574-589.	1.0	24
65	Indirect effects on fitness between individuals that have never met via an extended phenotype. <i>Ecology Letters</i> , 2019, 22, 697-706.	3.0	24
66	Territorial defence behaviour in red squirrels is influenced by local density. <i>Behaviour</i> , 2012, 149, 369-390.	0.4	23
67	Predators, energetics and fitness drive neonatal reproductive failure in red squirrels. <i>Journal of Animal Ecology</i> , 2015, 84, 249-259.	1.3	22
68	North American red squirrels mitigate costs of territory defence through social plasticity. <i>Animal Behaviour</i> , 2019, 151, 29-42.	0.8	22
69	The heritability of multiple male mating in a promiscuous mammal. <i>Biology Letters</i> , 2011, 7, 368-371.	1.0	21
70	Social effects of territorial neighbours on the timing of spring breeding in North American red squirrels. <i>Journal of Evolutionary Biology</i> , 2019, 32, 559-571.	0.8	20
71	Reducing accidental shrew mortality associated with small-mammal livetrapping I: an inter- and intrastudy analysis. <i>Journal of Mammalogy</i> , 2013, 94, 745-753.	0.6	19
72	Plastic response to a proxy cue of predation risk when direct cues are unreliable. <i>Ecology</i> , 2013, 94, 2237-2248.	1.5	19

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73	Frequency-Dependent and Correlational Selection Pressures Have Conflicting Consequences for Assortative Mating in a Color-Polymorphic Lizard, <i>Uta stansburiana</i> . <i>American Naturalist</i> , 2014, 184, 188-197.	1.0	19
74	Body temperature, heart rate, and activity patterns of two boreal homeotherms in winter: Homeostasis, allostasis, and ecological coexistence. <i>Functional Ecology</i> , 2020, 34, 2292-2301.	1.7	19
75	MASTREE+: Time-series of plant reproductive effort from six continents. <i>Global Change Biology</i> , 2022, 28, 3066-3082.	4.2	19
76	Optimisation of energetic and reproductive gains explains behavioural responses to environmental variation across seasons and years. <i>Ecology Letters</i> , 2020, 23, 841-850.	3.0	18
77	MATERNAL EFFECTS AND THE POTENTIAL FOR EVOLUTION IN A NATURAL POPULATION OF ANIMALS. <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 846.	1.1	17
78	GAPE-LIMITED PREDATORS AS AGENTS OF SELECTION ON THE DEFENSIVE MORPHOLOGY OF AN INVASIVE INVERTEBRATE. <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 2633-2643.	1.1	17
79	Nest attendance of lactating red squirrels (<i>Tamiasciurus hudsonicus</i>): influences of biological and environmental correlates. <i>Journal of Mammalogy</i> , 2016, 97, 806-814.	0.6	16
80	Fitness consequences of peak reproductive effort in a resource pulse system. <i>Scientific Reports</i> , 2017, 7, 9335.	1.6	16
81	Stress activity is not predictive of coping style in North American red squirrels. <i>Behavioral Ecology and Sociobiology</i> , 2019, 73, 1.	0.6	16
82	Territory acquisition mediates the influence of predators and climate on juvenile red squirrel survival. <i>Journal of Animal Ecology</i> , 2020, 89, 1408-1418.	1.3	16
83	Daily energy expenditure during lactation is strongly selected in a free-living mammal. <i>Functional Ecology</i> , 2015, 29, 195-208.	1.7	14
84	Glucocorticoids coordinate changes in gut microbiome composition in wild North American red squirrels. <i>Scientific Reports</i> , 2022, 12, 2605.	1.6	14
85	VARIATION IN VIABILITY SELECTION AMONG COHORTS OF JUVENILE RED SQUIRRELS (<i>TAMIASCIURUS</i>) <i>Tj ETQq1 1 0,784314,rgBT/O</i>	1.1	13
86	Maternal glucocorticoids promote offspring growth without inducing oxidative stress or shortening telomeres in wild red squirrels. <i>Journal of Experimental Biology</i> , 2020, 223, .	0.8	13
87	MATERNAL ADJUSTMENT OF EGG SIZE ORGANIZES ALTERNATIVE ESCAPE BEHAVIORS, PROMOTING ADAPTIVE PHENOTYPIC INTEGRATION. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 1607-21.	1.1	13
88	Sex-specific hoarding behavior in North American red squirrels (<i>Tamiasciurus hudsonicus</i>). <i>Journal of Mammalogy</i> , 2013, 94, 761-770.	0.6	12
89	Sexually selected infanticide by male red squirrels in advance of a mast year. <i>Ecology</i> , 2018, 99, 1242-1244.	1.5	12
90	Experimental Increases in Glucocorticoids Alter Function of the HPA Axis in Wild Red Squirrels without Negatively Impacting Survival and Reproduction. <i>Physiological and Biochemical Zoology</i> , 2019, 92, 445-458.	0.6	11

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91	Sex- and context-specific associations between personality and a measure of fitness but no link with life history traits. <i>Animal Behaviour</i> , 2020, 167, 23-39.	0.8	11
92	Anticipatory reproduction in squirrels can succeed in the absence of extra food. <i>New Zealand Journal of Zoology</i> , 2013, 40, 337-339.	0.6	10
93	Solutions for Archiving Data in Long-Term Studies: A Reply to Whitlock et al.. <i>Trends in Ecology and Evolution</i> , 2016, 31, 85-87.	4.2	10
94	A fitness trade-off between seasons causes multigenerational cycles in phenotype and population size. <i>ELife</i> , 2017, 6, .	2.8	10
95	The effects of dietary protein content on growth and maturation in deer mice. <i>Canadian Journal of Zoology</i> , 1999, 77, 1822-1828.	0.4	9
96	Genetic and maternal effects on tail spine and body length in the invasive spiny water flea (<i>Bythotrephes longimanus</i>). <i>Evolutionary Applications</i> , 2012, 5, 306-316.	1.5	9
97	Seasonal plasticity of maternal behaviour in <i>Peromyscus maniculatus</i> . <i>Behaviour</i> , 2014, 151, 1641-1662.	0.4	8
98	Variation in space and time: a long-term examination of density-dependent dispersal in a woodland rodent. <i>Oecologia</i> , 2020, 193, 903-912.	0.9	8
99	Using playback of territorial calls to investigate mechanisms of kin discrimination in red squirrels. <i>Behavioral Ecology</i> , 2017, 28, 382-390.	1.0	7
100	Maternal glucocorticoids have minimal effects on HPA axis activity and behavior of juvenile wild North American red squirrels. <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	7
101	The effects of stress and glucocorticoids on vocalizations: a test in North American red squirrels. <i>Behavioral Ecology</i> , 2019, 30, 1030-1040.	1.0	6
102	Evolutionary stasis despite selection on a heritable trait in an invasive zooplankton. <i>Journal of Evolutionary Biology</i> , 2015, 28, 1091-1102.	0.8	5
103	Social Effects on Annual Fitness in Red Squirrels. <i>Journal of Heredity</i> , 2022, 113, 69-78.	1.0	5
104	Carry-over effects of resource competition and social environment on aggression. <i>Behavioral Ecology</i> , 0, , .	1.0	4
105	Breeding by young-of-the-year female deer mice: Why weight?. <i>Ecoscience</i> , 1999, 6, 400-405.	0.6	3
106	Local differentiation in the defensive morphology of an invasive zooplankton species is not genetically based. <i>Biological Invasions</i> , 2018, 20, 235-250.	1.2	3
107	Individual variation in the dear enemy phenomenon via territorial vocalizations in red squirrels. <i>Behaviour</i> , 2018, 155, 1073-1096.	0.4	3
108	Is biasing offspring sex ratio adaptive? A test of Fisher's principle across multiple generations of a wild mammal in a fluctuating environment. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20181251.	1.2	3

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109	Examining the effects of heterospecific abundance on dispersal in forest small mammals. <i>Journal of Mammalogy</i> , 2021, 102, 1484-1496.	0.6	2
110	Animal personality: a comparison of standardized assays and focal observations in North American red squirrels. <i>Animal Behaviour</i> , 2022, 190, 221-232.	0.8	2
111	LIFETIME SELECTION ON HERITABLE LIFE-HISTORY TRAITS IN A NATURAL POPULATION OF RED SQUIRRELS. <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 2416.	1.1	1
112	An independent experiment does not support stress-mediated kin discrimination through red squirrel vocalizations. <i>Animal Behaviour</i> , 2021, 176, 185-192.	0.8	0