

Andy Gardner

List of Publications by Year in descending order

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Version: 2024-02-01

149
papers

13,134
citations

36303

51
h-index

26613

107
g-index

161
all docs

161
docs citations

161
times ranked

8298
citing authors

#	ARTICLE	IF	CITATIONS
1	Sexual antagonism in haplodiploids. <i>Evolution; International Journal of Organic Evolution</i> , 2022, 76, 292-309.	2.3	9
2	Population viscosity promotes altruism under density-dependent dispersal. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022, 289, 20212668.	2.6	5
3	Reproductive value and the evolution of altruism. <i>Trends in Ecology and Evolution</i> , 2022, 37, 346-358.	8.7	7
4	The evolution of religiosity by kin selection. <i>Religion, Brain and Behavior</i> , 2022, 12, 347-364.	0.7	4
5	Sex, males, and hermaphrodites in the scale insect <i>Icerya purchasi</i> *. <i>Evolution; International Journal of Organic Evolution</i> , 2021, 75, 2972-2983.	2.3	12
6	Sex-biased demography modulates male harm across the genome. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20212237.	2.6	2
7	A gene's-eye view of sexual antagonism. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20201633.	2.6	30
8	Adjustment of sex allocation to co-foundress number and kinship under local mate competition: An inclusive fitness analysis. <i>Journal of Evolutionary Biology</i> , 2020, 33, 1806-1812.	1.7	12
9	Price's equation made clear. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190361.	4.0	32
10	Resource heterogeneity and the evolution of public goods cooperation. <i>Evolution Letters</i> , 2020, 4, 155-163.	3.3	10
11	The demography of human warfare can drive sex differences in altruism. <i>Evolutionary Human Sciences</i> , 2020, 2, .	1.7	10
12	Does kin discrimination promote cooperation?. <i>Biology Letters</i> , 2020, 16, 20190742.	2.3	12
13	Kin discrimination and demography modulate patterns of sexual conflict. <i>Nature Ecology and Evolution</i> , 2020, 4, 1141-1148.	7.8	12
14	Parent-of-origin specific gene expression and dispersal. <i>Current Opinion in Behavioral Sciences</i> , 2019, 25, 36-43.	3.9	3
15	The agent concept is a scientific tool. <i>Metascience</i> , 2019, 28, 359-363.	0.3	4
16	How to make a haploid male. <i>Evolution Letters</i> , 2019, 3, 173-184.	3.3	9
17	The greenbeard effect. <i>Current Biology</i> , 2019, 29, R430-R431.	3.9	9
18	Genomic Imprinting As a Window into Human Language Evolution. <i>BioEssays</i> , 2019, 41, 1800212.	2.5	5

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19	The social evolution of sleep: sex differences, intragenomic conflicts and clinical pathologies. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20182188.	2.6	4
20	Sexual selection in complex communities: Integrating interspecific reproductive interference in structured populations. <i>Evolution; International Journal of Organic Evolution</i> , 2019, 73, 1025-1036.	2.3	7
21	No effect of intraspecific relatedness on public goods cooperation in a complex community. <i>Evolution; International Journal of Organic Evolution</i> , 2018, 72, 1165-1173.	2.3	17
22	Intragroup and intragenomic conflict over chemical defense against predators. <i>Ecology and Evolution</i> , 2018, 8, 3322-3329.	1.9	3
23	Inclusive fitness for in-laws. <i>Biology Letters</i> , 2018, 14, 20180515.	2.3	23
24	Inference of ecological and social drivers of human brain-size evolution. <i>Nature</i> , 2018, 557, 554-557.	27.8	170
25	Monogamy promotes altruistic sterility in insect societies. <i>Royal Society Open Science</i> , 2018, 5, 172190.	2.4	14
26	Why war is a man's game. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20180975.	2.6	14
27	The relation between R. A. Fisher's sexy-son hypothesis and W. D. Hamilton's greenbeard effect. <i>Evolution Letters</i> , 2018, 2, 190-200.	3.3	6
28	Intrafamily and intragenomic conflicts in human warfare. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20162699.	2.6	19
29	Short-Sighted Virus Evolution and a Germline Hypothesis for Chronic Viral Infections. <i>Trends in Microbiology</i> , 2017, 25, 336-348.	7.7	50
30	Sexual selection modulates genetic conflicts and patterns of genomic imprinting. <i>Evolution; International Journal of Organic Evolution</i> , 2017, 71, 526-540.	2.3	13
31	The purpose of adaptation. <i>Interface Focus</i> , 2017, 7, 20170005.	3.0	27
32	The meaning of intragenomic conflict. <i>Nature Ecology and Evolution</i> , 2017, 1, 1807-1815.	7.8	52
33	The ecology of sex explains patterns of helping in arthropod societies. <i>Ecology Letters</i> , 2016, 19, 862-872.	6.4	24
34	The Strategic Revolution. <i>Cell</i> , 2016, 166, 1345-1348.	28.9	2
35	Sex ratios, virginity, and local resource enhancement in a quasisocial parasitoid. <i>Entomologia Experimentalis Et Applicata</i> , 2016, 159, 243-251.	1.4	18
36	The constant philopater hypothesis: a new life history invariant for dispersal evolution. <i>Journal of Evolutionary Biology</i> , 2016, 29, 153-166.	1.7	17

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37	Intragenomic Conflict over Soldier Allocation in Polyembryonic Parasitoid Wasps. <i>American Naturalist</i> , 2016, 187, E106-E115.	2.1	13
38	Misconceptions on the application of biological market theory to the mycorrhizal symbiosis. <i>Nature Plants</i> , 2016, 2, 16063.	9.3	23
39	Restricting mutualistic partners to enforce trade reliance. <i>Nature Communications</i> , 2016, 7, 10322.	12.8	16
40	Hamilton's Rule. <i>American Naturalist</i> , 2015, 186, ii-iii.	2.1	1
41	Simultaneous failure of two sex-allocation invariants: implications for sex-ratio variation within and between populations. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20150570.	2.6	18
42	Kin Selection. , 2015, , 26-31.		15
43	Major evolutionary transitions in individuality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10112-10119.	7.1	278
44	Sex-biased dispersal, kin selection and the evolution of sexual conflict. <i>Journal of Evolutionary Biology</i> , 2015, 28, 1901-1910.	1.7	28
45	Mother and Offspring in Conflict: Why Not?. <i>PLoS Biology</i> , 2015, 13, e1002084.	5.6	12
46	More on the genetical theory of multilevel selection. <i>Journal of Evolutionary Biology</i> , 2015, 28, 1747-1751.	1.7	15
47	Group selection versus group adaptation. <i>Nature</i> , 2015, 524, E3-E4.	27.8	15
48	Intragenomic Conflict over Dispersal. <i>American Naturalist</i> , 2015, 186, E61-E71.	2.1	15
49	The genetical theory of multilevel selection. <i>Journal of Evolutionary Biology</i> , 2015, 28, 305-319.	1.7	84
50	Total reproductive value of juvenile females is twice that of juvenile males under X-linkage and haplodiploidy. <i>Journal of Theoretical Biology</i> , 2014, 359, 236-237.	1.7	11
51	Ant Larvae as Players in Social Conflict: Relatedness and Individual Identity Mediate Cannibalism Intensity. <i>American Naturalist</i> , 2014, 184, E161-E174.	2.1	29
52	Ecology drives intragenomic conflict over menopause. <i>Ecology Letters</i> , 2014, 17, 165-174.	6.4	21
53	Dynamics of sex ratio and female unmatedness under haplodiploidy. <i>Ecology and Evolution</i> , 2014, 4, 1623-1628.	1.9	9
54	Mating ecology explains patterns of genome elimination. <i>Ecology Letters</i> , 2014, 17, 1602-1612.	6.4	51

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55	Inclusive fitness: 50 years on. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130356.	4.0	46
56	Life, the universe and everything. <i>Biology and Philosophy</i> , 2014, 29, 207-215.	1.4	14
57	Evolution of paternal care in diploid and haplodiploid populations. <i>Journal of Evolutionary Biology</i> , 2014, 27, 1012-1019.	1.7	12
58	Haplodiploidy and the Evolution of Eusociality: Worker Revolution. <i>American Naturalist</i> , 2014, 184, 303-317.	2.1	12
59	Genomic imprinting and the units of adaptation. <i>Heredity</i> , 2014, 113, 104-111.	2.6	12
60	A BIOLOGICAL MARKET ANALYSIS OF THE PLANT-MYCORRHIZAL SYMBIOSIS. <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 2603-2618.	2.3	84
61	Darwinism, not mutationism, explains the design of organisms. <i>Progress in Biophysics and Molecular Biology</i> , 2013, 111, 97-98.	2.9	6
62	Adaptation and Inclusive Fitness. <i>Current Biology</i> , 2013, 23, R577-R584.	3.9	132
63	Can natural selection favour altruism between species?. <i>Journal of Evolutionary Biology</i> , 2013, 26, 1854-1865.	1.7	18
64	EVOLUTION OF HELPING AND HARMING IN HETEROGENEOUS GROUPS. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 2284-2298.	2.3	34
65	Ecology, Not the Genetics of Sex Determination, Determines Who Helps in Eusocial Populations. <i>Current Biology</i> , 2013, 23, 2383-2387.	3.9	64
66	Multicoloured greenbeards, bacteriocin diversity and the rock-paper-scissors game. <i>Journal of Evolutionary Biology</i> , 2013, 26, 2081-2094.	1.7	42
67	Haplodiploidy, Sex-Ratio Adjustment, and Eusociality. <i>American Naturalist</i> , 2013, 181, E60-E67.	2.1	34
68	Evolution of Helping and Harming in Viscous Populations When Group Size Varies. <i>American Naturalist</i> , 2013, 181, 609-622.	2.1	24
69	Cosmological natural selection and the purpose of the universe. <i>Complexity</i> , 2013, 18, 48-56.	1.6	33
70	Haplodiploidy and the Evolution of Eusociality: Worker Reproduction. <i>American Naturalist</i> , 2013, 182, 421-438.	2.1	19
71	Ultimate explanations concern the adaptive rationale for organism design. <i>Biology and Philosophy</i> , 2013, 28, 787-791.	1.4	12
72	The social evolution of dispersal with public goods cooperation. <i>Journal of Evolutionary Biology</i> , 2013, 26, 2644-2653.	1.7	14

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73	What do humans maximize?. , 2012, , 23-49.		3
74	How do communication systems emerge?. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 1943-1949.	2.6	62
75	Quorum sensing and the confusion about diffusion. Trends in Microbiology, 2012, 20, 586-594.	7.7	136
76	Haplodiploidy and the Evolution of Eusociality: Split Sex Ratios. American Naturalist, 2012, 179, 240-256.	2.1	54
77	The sociobiology of sex: inclusive fitness consequences of inter-sexual interactions. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 2314-2323.	4.0	47
78	A MODEL FOR GENOMIC IMPRINTING IN THE SOCIAL BRAIN: ELDERLY. Evolution; International Journal of Organic Evolution, 2012, 66, 1567-1581.	2.3	31
79	EVOLUTION OF HELPING AND HARMING IN HETEROGENEOUS POPULATIONS. Evolution; International Journal of Organic Evolution, 2012, 66, 2065-2079.	2.3	49
80	A general ploidy model for the evolution of helping in viscous populations. Journal of Theoretical Biology, 2012, 304, 297-303.	1.7	10
81	Evolution of maternal care in diploid and haplodiploid populations. Journal of Evolutionary Biology, 2012, 25, 1479-1486.	1.7	12
82	Inclusive fitness. New Scientist, 2011, 211, 30.	0.0	1
83	Sex and Death: The Effects of Innate Immune Factors on the Sexual Reproduction of Malaria Parasites. PLoS Pathogens, 2011, 7, e1001309.	4.7	51
84	The genetical theory of kin selection. Journal of Evolutionary Biology, 2011, 24, 1020-1043.	1.7	336
85	A formal theory of the selfish gene. Journal of Evolutionary Biology, 2011, 24, 1801-1813.	1.7	56
86	A MODEL FOR GENOMIC IMPRINTING IN THE SOCIAL BRAIN: ADULTS. Evolution; International Journal of Organic Evolution, 2011, 65, 462-475.	2.3	75
87	ARE GREENBEARDS INTRAGENOMIC OUTLAWS?. Evolution; International Journal of Organic Evolution, 2011, 65, 2729-2742.	2.3	27
88	Inclusive fitness theory and eusociality. Nature, 2011, 471, E1-E4.	27.8	339
89	Sixteen common misconceptions about the evolution of cooperation in humans. Evolution and Human Behavior, 2011, 32, 231-262.	2.2	485
90	Kin selection under blending inheritance. Journal of Theoretical Biology, 2011, 284, 125-129.	1.7	14

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91	Spite and the Scale of Competition in <i>Pseudomonas aeruginosa</i> . <i>American Naturalist</i> , 2011, 178, 276-285.	2.1	25
92	Evolution of parental care driven by mutual reinforcement of parental food provisioning and sibling competition. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 196-203.	2.6	46
93	The Evolution of Hermaphroditism by an Infectious Male-Derived Cell Lineage: An Inclusive-Fitness Analysis. <i>American Naturalist</i> , 2011, 178, 191-201.	2.1	16
94	The Meaning of Death: Evolution and Ecology of Apoptosis in Protozoan Parasites. <i>PLoS Pathogens</i> , 2011, 7, e1002320.	4.7	72
95	Sex-biased dispersal of adults mediates the evolution of altruism among juveniles. <i>Journal of Theoretical Biology</i> , 2010, 262, 339-345.	1.7	58
96	GREENBEARDS. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 25-38.	2.3	225
97	THE ENFORCEMENT OF COOPERATION BY POLICING. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 2139-52.	2.3	50
98	A MODEL FOR GENOMIC IMPRINTING IN THE SOCIAL BRAIN: JUVENILES. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 2587-2600.	2.3	86
99	Wild, Gardner & West reply. <i>Nature</i> , 2010, 463, E9-E10.	27.8	5
100	Repression of competition favours cooperation: experimental evidence from bacteria. <i>Journal of Evolutionary Biology</i> , 2010, 23, 699-706.	1.7	32
101	Social evolution theory: a review of methods and approaches. , 2010, , 132-158.		51
102	Altruism, Spite, and Greenbeards. <i>Science</i> , 2010, 327, 1341-1344.	12.6	217
103	Diminishing Returns From Beneficial Mutations and Pervasive Epistasis Shape the Fitness Landscape for Rifampicin Resistance in <i>Pseudomonas aeruginosa</i> . <i>Genetics</i> , 2010, 186, 1345-1354.	2.9	156
104	Ecological drivers of the evolution of public-goods cooperation in bacteria. <i>Ecology</i> , 2010, 91, 334-340.	3.2	65
105	Spite and virulence in the bacterium <i>Pseudomonas aeruginosa</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5703-5707.	7.1	126
106	Adaptation as organism design. <i>Biology Letters</i> , 2009, 5, 861-864.	2.3	107
107	Adaptation and the evolution of parasite virulence in a connected world. <i>Nature</i> , 2009, 459, 983-986.	27.8	156
108	LIMITED DISPERSAL, BUDDING DISPERSAL, AND COOPERATION: AN EXPERIMENTAL STUDY. <i>Evolution; International Journal of Organic Evolution</i> , 2009, 63, 939-949.	2.3	163

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109	DENSITY DEPENDENCE AND COOPERATION: THEORY AND A TEST WITH BACTERIA. <i>Evolution; International Journal of Organic Evolution</i> , 2009, 63, 2315-2325.	2.3	115
110	Capturing the superorganism: a formal theory of group adaptation. <i>Journal of Evolutionary Biology</i> , 2009, 22, 659-671.	1.7	319
111	Budding dispersal and the sex ratio. <i>Journal of Evolutionary Biology</i> , 2009, 22, 1036-1045.	1.7	35
112	Integrating physiological, ecological and evolutionary change: a Price equation approach. <i>Ecology Letters</i> , 2009, 12, 744-757.	6.4	57
113	Resource supply and the evolution of public-goods cooperation in bacteria. <i>BMC Biology</i> , 2008, 6, 20.	3.8	95
114	Sex ratio adjustment and kin discrimination in malaria parasites. <i>Nature</i> , 2008, 453, 609-614.	27.8	198
115	Social semantics: how useful has group selection been?. <i>Journal of Evolutionary Biology</i> , 2008, 21, 374-385.	1.7	134
116	Nice natives and mean migrants: the evolution of dispersal-dependent social behaviour in viscous populations. <i>Journal of Evolutionary Biology</i> , 2008, 21, 1480-1491.	1.7	66
117	The Price equation. <i>Current Biology</i> , 2008, 18, R198-R202.	3.9	91
118	Social Evolution: This Microbe Will Self-Destruct. <i>Current Biology</i> , 2008, 18, R1021-R1023.	3.9	15
119	The Evolution and Ecology of Cooperation – History and Concepts. , 2008, , 1-36.		35
120	Pacing a small cage: mutation and RNA viruses. <i>Trends in Ecology and Evolution</i> , 2008, 23, 188-193.	8.7	136
121	Communication in bacteria. , 2008, , 11-32.		6
122	The Relation between Multilocus Population Genetics and Social Evolution Theory. <i>American Naturalist</i> , 2007, 169, 207-226.	2.1	132
123	Frequency Dependence and Cooperation: Theory and a Test with Bacteria. <i>American Naturalist</i> , 2007, 170, 331-342.	2.1	266
124	Spiteful Soldiers and Sex Ratio Conflict in Polyembryonic Parasitoid Wasps. <i>American Naturalist</i> , 2007, 169, 519-533.	2.1	79
125	Evolutionary theory of bacterial quorum sensing: when is a signal not a signal?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007, 362, 1241-1249.	4.0	206
126	The Social Lives of Microbes. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2007, 38, 53-77.	8.3	636

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127	Direct fitness or inclusive fitness: how shall we model kin selection?. <i>Journal of Evolutionary Biology</i> , 2007, 20, 301-309.	1.7	119
128	The causes and consequences of variation in offspring size: a case study using <i>Daphnia</i> . <i>Journal of Evolutionary Biology</i> , 2007, 20, 577-587.	1.7	28
129	Social semantics: altruism, cooperation, mutualism, strong reciprocity and group selection. <i>Journal of Evolutionary Biology</i> , 2007, 20, 415-432.	1.7	1,541
130	Siderophore-mediated cooperation and virulence in <i>Pseudomonas aeruginosa</i> . <i>FEMS Microbiology Ecology</i> , 2007, 62, 135-141.	2.7	146
131	Cooperation Peaks at Intermediate Disturbance. <i>Current Biology</i> , 2007, 17, 761-765.	3.9	122
132	Evolutionary Explanations for Cooperation. <i>Current Biology</i> , 2007, 17, R661-R672.	3.9	815
133	Social Evolution: The Decline and Fall of Genetic Kin Recognition. <i>Current Biology</i> , 2007, 17, R810-R812.	3.9	56
134	Is Bacterial Persistence a Social Trait?. <i>PLoS ONE</i> , 2007, 2, e752.	2.5	83
135	The evolutionary consequences of plasticity in host-pathogen interactions. <i>Theoretical Population Biology</i> , 2006, 69, 323-331.	1.1	29
136	Demography, altruism, and the benefits of budding. <i>Journal of Evolutionary Biology</i> , 2006, 19, 1707-1716.	1.7	189
137	Social evolution theory for microorganisms. <i>Nature Reviews Microbiology</i> , 2006, 4, 597-607.	28.6	993
138	Recombination and the evolution of mutational robustness. <i>Journal of Theoretical Biology</i> , 2006, 241, 707-715.	1.7	31
139	Cooperation and the Scale of Competition in Humans. <i>Current Biology</i> , 2006, 16, 1103-1106.	3.9	181
140	Altruism. <i>Current Biology</i> , 2006, 16, R482-R483.	3.9	30
141	Spite. <i>Current Biology</i> , 2006, 16, R662-R664.	3.9	35
142	A Dimensionless Invariant for Relative Size at Sex Change in Animals: Explanation and Implications. <i>American Naturalist</i> , 2005, 165, 551-566.	2.1	23
143	Bacteriocins, spite and virulence. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 1529-1535.	2.6	208
144	ECOLOGY: Spite Among Siblings. <i>Science</i> , 2004, 305, 1413-1414.	12.6	28

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145	Spite and the scale of competition. <i>Journal of Evolutionary Biology</i> , 2004, 17, 1195-1203.	1.7	190
146	Cooperation and Punishment, Especially in Humans. <i>American Naturalist</i> , 2004, 164, 753-764.	2.1	205
147	Even more extreme fertility insurance and the sex ratios of protozoan blood parasites. <i>Journal of Theoretical Biology</i> , 2003, 223, 515-521.	1.7	43
148	IS EVOLVABILITY INVOLVED IN THE ORIGIN OF MODULAR VARIATION?. <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 1448-1450.	2.3	18
149	IS EVOLVABILITY INVOLVED IN THE ORIGIN OF MODULAR VARIATION?. <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 1448.	2.3	0