

Alan Grafen

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

3,964
citations

218381

26
h-index

264894

42
g-index

43
all docs

43
docs citations

43
times ranked

2150
citing authors

#	ARTICLE	IF	CITATIONS
1	Sexual selection unhandicapped by the fisher process. <i>Journal of Theoretical Biology</i> , 1990, 144, 473-516.	0.8	578
2	Inclusive fitness theory and eusociality. <i>Nature</i> , 2011, 471, E1-E4.	13.7	339
3	Do animals really recognize kin?. <i>Animal Behaviour</i> , 1990, 39, 42-54.	0.8	338
4	The logic of divisively asymmetric contests: respect for ownership and the desperado effect. <i>Animal Behaviour</i> , 1987, 35, 462-467.	0.8	295
5	Optimization of inclusive fitness. <i>Journal of Theoretical Biology</i> , 2006, 238, 541-563.	0.8	260
6	How not to measure inclusive fitness. <i>Nature</i> , 1982, 298, 425-426.	13.7	215
7	The hawk-dove game played between relatives. <i>Animal Behaviour</i> , 1979, 27, 905-907.	0.8	179
8	Formal Darwinism, the individual's "maximizing" agent analogy and beta-hedging. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1999, 266, 799-803.	1.2	179
9	ALTRUISM VIA KIN-SELECTION STRATEGIES THAT RELY ON ARBITRARY TAGS WITH WHICH THEY COEVOLVE. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 1833-1838.	1.1	178
10	Split sex ratios and the evolutionary origins of eusociality. <i>Journal of Theoretical Biology</i> , 1986, 122, 95-121.	0.8	124
11	A theory of Fisher's reproductive value. <i>Journal of Mathematical Biology</i> , 2006, 53, 15-60.	0.8	120
12	The formal Darwinism project: a mid-term report. <i>Journal of Evolutionary Biology</i> , 2007, 20, 1243-1254.	0.8	97
13	A First Formal Link between the Price Equation and an Optimization Program. <i>Journal of Theoretical Biology</i> , 2002, 217, 75-91.	0.8	89
14	An inclusive fitness analysis of altruism on a cyclical network. <i>Journal of Evolutionary Biology</i> , 2007, 20, 2278-2283.	0.8	80
15	Detecting kin selection at work using inclusive fitness. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 713-719.	1.2	75
16	The evolution of index signals to avoid the cost of dishonesty. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140876.	1.2	75
17	Natural selection of altruism in inelastic viscous homogeneous populations. <i>Journal of Theoretical Biology</i> , 2008, 252, 694-710.	0.8	74
18	The formal darwinism project in outline. <i>Biology and Philosophy</i> , 2014, 29, 155-174.	0.7	66

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19	Are green beard genes outlaws?. <i>Animal Behaviour</i> , 1981, 29, 954-955.	0.8	60
20	Life history correlations and demography. <i>Nature</i> , 1986, 320, 88-88.	13.7	59
21	Formalizing Darwinism and inclusive fitness theory. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 3135-3141.	1.8	57
22	Biological Fitness and the Fundamental Theorem of Natural Selection. <i>American Naturalist</i> , 2015, 186, 1-14.	1.0	55
23	Developments of the Price equation and natural selection under uncertainty. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2000, 267, 1223-1227.	1.2	53
24	Fisher the evolutionary biologist. <i>Journal of the Royal Statistical Society: Series D (the Statistician)</i> , 2003, 52, 319-329.	0.2	44
25	Evolutionary theory: Hamilton's rule OK. <i>Nature</i> , 1985, 318, 310-311.	13.7	40
26	Biological fitness and the Price Equation in class-structured populations. <i>Journal of Theoretical Biology</i> , 2015, 373, 62-72.	0.8	36
27	The simplest formal argument for fitness optimization. <i>Journal of Genetics</i> , 2008, 87, 421-433.	0.4	30
28	Inclusive fitness is an indispensable approximation for understanding organismal design. <i>Evolution; International Journal of Organic Evolution</i> , 2019, 73, 1066-1076.	1.1	22
29	Total reproductive values for females and for males in sexual diploids are not equal. <i>Journal of Theoretical Biology</i> , 2014, 359, 233-235.	0.8	17
30	The left hand side of the Fundamental Theorem of Natural Selection. <i>Journal of Theoretical Biology</i> , 2018, 456, 175-189.	0.8	17
31	Origin of mutants disputed. <i>Nature</i> , 1988, 336, 525-526.	13.7	13
32	Green beard as death warrant. <i>Nature</i> , 1998, 394, 521-522.	13.7	13
33	Fertility and Labour Supply in <i>Femina economica</i> . <i>Journal of Theoretical Biology</i> , 1998, 194, 429-455.	0.8	13
34	Foundations of a mathematical theory of darwinism. <i>Journal of Mathematical Biology</i> , 2014, 69, 295-334.	0.8	13
35	The Price equation and reproductive value. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190356.	1.8	12
36	William Donald Hamilton. 1 August 1936 – 7 March 2000. <i>Biographical Memoirs of Fellows of the Royal Society</i> , 2004, 50, 109-132.	0.1	11

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37	Various remarks on Lehmann and Keller's article. <i>Journal of Evolutionary Biology</i> , 2006, 19, 1397-1399.	0.8	10
38	The formal darwinism project in outline: response to commentaries. <i>Biology and Philosophy</i> , 2014, 29, 281-292.	0.7	10
39	Defining fitness in an uncertain world. <i>Journal of Mathematical Biology</i> , 2018, 76, 1059-1099.	0.8	10
40	Extending the range of additivity in using inclusive fitness. <i>Ecology and Evolution</i> , 2021, 11, 1970-1983.	0.8	6
41	Should we ask for more than consistency of Darwinism with Mendelism?. <i>Studies in History and Philosophy of Science Part C: Studies in History and Philosophy of Biological and Biomedical Sciences</i> , 2019, 78, 101224.	0.8	1
42	A simple completion of Fisher's fundamental theorem of natural selection. <i>Ecology and Evolution</i> , 2021, 11, 735-742.	0.8	1
43	The fundamental theorem of natural selection. <i>Journal of Animal Breeding and Genetics</i> , 2018, 135, 393-394.	0.8	0