

Benjamin I Allen

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

4,436
citations

218592

26
h-index

223716

46
g-index

57
all docs

57
docs citations

57
times ranked

7036
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of cooperation with asymmetric social interactions. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	34
2	Fixation probabilities in evolutionary dynamics under weak selection. Journal of Mathematical Biology, 2021, 82, 14.	0.8	29
3	Fixation probabilities in graph-structured populations under weak selection. PLoS Computational Biology, 2021, 17, e1008695.	1.5	22
4	Transient amplifiers of selection and reducers of fixation for death-Birth updating on graphs. PLoS Computational Biology, 2020, 16, e1007529.	1.5	28
5	Social goods dilemmas in heterogeneous societies. Nature Human Behaviour, 2020, 4, 819-831.	6.2	49
6	Transient amplifiers of selection and reducers of fixation for death-Birth updating on graphs. , 2020, 16, e1007529.		0
7	Transient amplifiers of selection and reducers of fixation for death-Birth updating on graphs. , 2020, 16, e1007529.		0
8	Transient amplifiers of selection and reducers of fixation for death-Birth updating on graphs. , 2020, 16, e1007529.		0
9	Transient amplifiers of selection and reducers of fixation for death-Birth updating on graphs. , 2020, 16, e1007529.		0
10	Evolutionary games on isothermal graphs. Nature Communications, 2019, 10, 5107.	5.8	30
11	Evolution of cooperation on large networks with community structure. Journal of the Royal Society Interface, 2019, 16, 20180677.	1.5	73
12	A mathematical formalism for natural selection with arbitrary spatial and genetic structure. Journal of Mathematical Biology, 2019, 78, 1147-1210.	0.8	26
13	Stationary frequencies and mixing times for neutral drift processes with spatial structure. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20180238.	1.0	7
14	Conjoining uncooperative societies facilitates evolution of cooperation. Nature Human Behaviour, 2018, 2, 492-499.	6.2	33
15	The Marr conjecture and uniqueness of wavelet transforms. Annals of Mathematical Sciences and Applications, 2018, 3, 473-528.	0.2	0
16	Limited heterogeneity of known driver gene mutations among the metastases of individual patients with pancreatic cancer. Nature Genetics, 2017, 49, 358-366.	9.4	316
17	The general form of Hamilton's rule makes no predictions and cannot be tested empirically. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5665-5670.	3.3	40
18	Evolutionary dynamics on any population structure. Nature, 2017, 544, 227-230.	13.7	324

#	ARTICLE	IF	CITATIONS
19	Multiscale Information Theory for Complex Systems: Theory and Applications. , 2017, , 176-199.		2
20	The limits of weak selection and large population size in evolutionary game theory. Journal of Mathematical Biology, 2017, 75, 1285-1317.	0.8	20
21	Hamilton's rule. Journal of Theoretical Biology, 2017, 414, 176-230.	0.8	35
22	Multiscale Information Theory and the Marginal Utility of Information. Entropy, 2017, 19, 273.	1.1	28
23	Assortment and the evolution of cooperation in a Moran process with exponential fitness. Journal of Theoretical Biology, 2016, 409, 38-46.	0.8	19
24	There is no inclusive fitness at the level of the individual. Current Opinion in Behavioral Sciences, 2016, 12, 122-128.	2.0	14
25	Statistical Inference Is Not Needed When the Solution Is Already Known. BioScience, 2016, 66, 186-186.	2.2	0
26	Evolution of worker policing. Journal of Theoretical Biology, 2016, 399, 103-116.	0.8	19
27	Payoff components and their effects in a spatial three-strategy evolutionary social dilemma. Physical Review E, 2015, 92, 012813.	0.8	13
28	Unique recovery from edge information. , 2015, , .		1
29	Four classes of interactions for evolutionary games. Physical Review E, 2015, 92, 022820.	0.8	26
30	The Molecular Clock of Neutral Evolution Can Be Accelerated or Slowed by Asymmetric Spatial Structure. PLoS Computational Biology, 2015, 11, e1004108.	1.5	38
31	Inclusive Fitness Theorizing Invokes Phenomena That Are Not Relevant for the Evolution of Eusociality. PLoS Biology, 2015, 13, e1002134.	2.6	24
32	Games among relatives revisited. Journal of Theoretical Biology, 2015, 378, 103-116.	0.8	41
33	Inclusive Fitness Theory Becomes an End in Itself. BioScience, 2015, 65, 1103-1104.	2.2	3
34	The evolution of non-reproductive workers in insect colonies with haplodiploid genetics. ELife, 2015, 4, e08918.	2.8	21
35	Games on graphs. EMS Surveys in Mathematical Sciences, 2014, 1, 113-151.	1.5	126
36	Fourier decomposition of payoff matrix for symmetric three-strategy games. Physical Review E, 2014, 90, 042811.	0.8	18

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37	Measures of success in a class of evolutionary models with fixed population size and structure. <i>Journal of Mathematical Biology</i> , 2014, 68, 109-143.	0.8	64
38	Optional games on cycles and complete graphs. <i>Journal of Theoretical Biology</i> , 2014, 356, 98-112.	0.8	31
39	Frequency-Dependent Selection Can Lead to Evolution of High Mutation Rates. <i>American Naturalist</i> , 2014, 183, E131-E153.	1.0	7
40	Limitations of inclusive fitness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20135-20139.	3.3	100
41	The effect of one additional driver mutation on tumor progression. <i>Evolutionary Applications</i> , 2013, 6, 34-45.	1.5	33
42	Adaptive Dynamics with Interaction Structure. <i>American Naturalist</i> , 2013, 181, E139-E163.	1.0	54
43	Experimental interrogation of the path dependence and stochasticity of protein evolution using phage-assisted continuous evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9007-9012.	3.3	92
44	A Population-Based Experimental Model for Protein Evolution: Effects of Mutation Rate and Selection Stringency on Evolutionary Outcomes. <i>Biochemistry</i> , 2013, 52, 1490-1499.	1.2	37
45	The COMBREX Project: Design, Methodology, and Initial Results. <i>PLoS Biology</i> , 2013, 11, e1001638.	2.6	54
46	Cooperation and the Fate of Microbial Societies. <i>PLoS Biology</i> , 2013, 11, e1001549.	2.6	21
47	Evolutionary dynamics of cancer in response to targeted combination therapy. <i>ELife</i> , 2013, 2, e00747.	2.8	516
48	Spatial dilemmas of diffusible public goods. <i>ELife</i> , 2013, 2, e01169.	2.8	119
49	Evolutionary shift dynamics on a cycle. <i>Journal of Theoretical Biology</i> , 2012, 311, 28-39.	0.8	17
50	Dynamics of targeted cancer therapy. <i>Trends in Molecular Medicine</i> , 2012, 18, 311-316.	3.5	78
51	Mutation Rate Evolution in Replicator Dynamics. <i>Bulletin of Mathematical Biology</i> , 2012, 74, 2650-75.	0.9	13
52	The molecular evolution of acquired resistance to targeted EGFR blockade in colorectal cancers. <i>Nature</i> , 2012, 486, 537-540.	13.7	1,506
53	How mutation affects evolutionary games on graphs. <i>Journal of Theoretical Biology</i> , 2012, 299, 97-105.	0.8	74
54	A New Phylogenetic Diversity Measure Generalizing the Shannon Index and Its Application to Phyllostomid Bats. <i>American Naturalist</i> , 2009, 174, 236-243.	1.0	155