

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	The molecular evolution of acquired resistance to targeted EGFR blockade in colorectal cancers. <i>Nature</i> , 2012, 486, 537-540.	13.7	1,506
2	Evolutionary dynamics of cancer in response to targeted combination therapy. <i>ELife</i> , 2013, 2, e00747.	2.8	516
3	Evolutionary dynamics on any population structure. <i>Nature</i> , 2017, 544, 227-230.	13.7	324
4	Limited heterogeneity of known driver gene mutations among the metastases of individual patients with pancreatic cancer. <i>Nature Genetics</i> , 2017, 49, 358-366.	9.4	316
5	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
6	Games on graphs. <i>EMS Surveys in Mathematical Sciences</i> , 2014, 1, 113-151.	1.5	126
7	Spatial dilemmas of diffusible public goods. <i>ELife</i> , 2013, 2, e01169.	2.8	119
8	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
9	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
10	Dynamics of targeted cancer therapy. <i>Trends in Molecular Medicine</i> , 2012, 18, 311-316.	3.5	78
11	How mutation affects evolutionary games on graphs. <i>Journal of Theoretical Biology</i> , 2012, 299, 97-105.	0.8	74
12	Evolution of cooperation on large networks with community structure. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20180677.	1.5	73
13	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
14	Adaptive Dynamics with Interaction Structure. <i>American Naturalist</i> , 2013, 181, E139-E163.	1.0	54
15	The COMBREX Project: Design, Methodology, and Initial Results. <i>PLoS Biology</i> , 2013, 11, e1001638.	2.6	54
16	Social goods dilemmas in heterogeneous societies. <i>Nature Human Behaviour</i> , 2020, 4, 819-831.	6.2	49
17	Games among relatives revisited. <i>Journal of Theoretical Biology</i> , 2015, 378, 103-116.	0.8	41
18	The general form of Hamilton's rule makes no predictions and cannot be tested empirically. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5665-5670.	3.3	40

#	ARTICLE	IF	CITATIONS
19	The Molecular Clock of Neutral Evolution Can Be Accelerated or Slowed by Asymmetric Spatial Structure. <i>PLoS Computational Biology</i> , 2015, 11, e1004108.	1.5	38
20	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
21	Hamilton's rule. <i>Journal of Theoretical Biology</i> , 2017, 414, 176-230.	0.8	35
22	Evolution of cooperation with asymmetric social interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	34
23	The effect of one additional driver mutation on tumor progression. <i>Evolutionary Applications</i> , 2013, 6, 34-45.	1.5	33
24	Conjoining uncooperative societies facilitates evolution of cooperation. <i>Nature Human Behaviour</i> , 2018, 2, 492-499.	6.2	33
25	Optional games on cycles and complete graphs. <i>Journal of Theoretical Biology</i> , 2014, 356, 98-112.	0.8	31
26	Evolutionary games on isothermal graphs. <i>Nature Communications</i> , 2019, 10, 5107.	5.8	30
27	Fixation probabilities in evolutionary dynamics under weak selection. <i>Journal of Mathematical Biology</i> , 2021, 82, 14.	0.8	29
28	Multiscale Information Theory and the Marginal Utility of Information. <i>Entropy</i> , 2017, 19, 273.	1.1	28
29	Transient amplifiers of selection and reducers of fixation for death-Birth updating on graphs. <i>PLoS Computational Biology</i> , 2020, 16, e1007529.	1.5	28
30	Four classes of interactions for evolutionary games. <i>Physical Review E</i> , 2015, 92, 022820.	0.8	26
31	A mathematical formalism for natural selection with arbitrary spatial and genetic structure. <i>Journal of Mathematical Biology</i> , 2019, 78, 1147-1210.	0.8	26
32	Inclusive Fitness Theorizing Invokes Phenomena That Are Not Relevant for the Evolution of Eusociality. <i>PLoS Biology</i> , 2015, 13, e1002134.	2.6	24
33	Fixation probabilities in graph-structured populations under weak selection. <i>PLoS Computational Biology</i> , 2021, 17, e1008695.	1.5	22
34	Cooperation and the Fate of Microbial Societies. <i>PLoS Biology</i> , 2013, 11, e1001549.	2.6	21
35	The evolution of non-reproductive workers in insect colonies with haplodiploid genetics. <i>ELife</i> , 2015, 4, e08918.	2.8	21
36	The limits of weak selection and large population size in evolutionary game theory. <i>Journal of Mathematical Biology</i> , 2017, 75, 1285-1317.	0.8	20

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37	Assortment and the evolution of cooperation in a Moran process with exponential fitness. <i>Journal of Theoretical Biology</i> , 2016, 409, 38-46.	0.8	19
38	Evolution of worker policing. <i>Journal of Theoretical Biology</i> , 2016, 399, 103-116.	0.8	19
39	Fourier decomposition of payoff matrix for symmetric three-strategy games. <i>Physical Review E</i> , 2014, 90, 042811.	0.8	18
40	Evolutionary shift dynamics on a cycle. <i>Journal of Theoretical Biology</i> , 2012, 311, 28-39.	0.8	17
41	There is no inclusive fitness at the level of the individual. <i>Current Opinion in Behavioral Sciences</i> , 2016, 12, 122-128.	2.0	14
42	Mutation Rate Evolution in Replicator Dynamics. <i>Bulletin of Mathematical Biology</i> , 2012, 74, 2650-75.	0.9	13
43	Payoff components and their effects in a spatial three-strategy evolutionary social dilemma. <i>Physical Review E</i> , 2015, 92, 012813.	0.8	13
44	Frequency-Dependent Selection Can Lead to Evolution of High Mutation Rates. <i>American Naturalist</i> , 2014, 183, E131-E153.	1.0	7
45	Stationary frequencies and mixing times for neutral drift processes with spatial structure. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018, 474, 20180238.	1.0	7
46	Inclusive Fitness Theory Becomes an End in Itself. <i>BioScience</i> , 2015, 65, 1103-1104.	2.2	3
47	Multiscale Information Theory for Complex Systems: Theory and Applications. , 2017, , 176-199.		2
48	Unique recovery from edge information. , 2015, , .		1
49	Statistical Inference Is Not Needed When the Solution Is Already Known. <i>BioScience</i> , 2016, 66, 186-186.	2.2	0
50	The Marr conjecture and uniqueness of wavelet transforms. <i>Annals of Mathematical Sciences and Applications</i> , 2018, 3, 473-528.	0.2	0
51	Transient amplifiers of selection and reducers of fixation for death-Birth updating on graphs. , 2020, 16, e1007529.		0
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