

Carl T Bergstrom

List of Publications by Year in descending order

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Version: 2024-02-01

93
papers

14,649
citations

43973

48
h-index

45213

90
g-index

107
all docs

107
docs citations

107
times ranked

15301
citing authors

#	ARTICLE	IF	CITATIONS
1	Maps of random walks on complex networks reveal community structure. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1118-1123.	3.3	3,471
2	Science of science. Science, 2018, 359, .	6.0	701
3	An information-theoretic framework for resolving community structure in complex networks. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7327-7331.	3.3	611
4	The map equation. European Physical Journal: Special Topics, 2009, 178, 13-23.	1.2	593
5	The Role of Gender in Scholarly Authorship. PLoS ONE, 2013, 8, e66212.	1.1	562
6	Mapping Change in Large Networks. PLoS ONE, 2010, 5, e8694.	1.1	474
7	The role of evolution in the emergence of infectious diseases. Nature, 2003, 426, 658-661.	13.7	473
8	The epidemiology of antibiotic resistance in hospitals: Paradoxes and prescriptions. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 1938-1943.	3.3	359
9	Eigenfactor: Measuring the value and prestige of scholarly journals. College and Research Libraries News, 2007, 68, 314-316.	0.1	355
10	Natural Selection, Infectious Transfer and the Existence Conditions for Bacterial Plasmids. Genetics, 2000, 155, 1505-1519.	1.2	332
11	Multilevel Compression of Random Walks on Networks Reveals Hierarchical Organization in Large Integrated Systems. PLoS ONE, 2011, 6, e18209.	1.1	332
12	From The Cover: Ecological theory suggests that antimicrobial cycling will not reduce antimicrobial resistance in hospitals. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13285-13290.	3.3	330
13	The Eigenfactor, h Metrics: Figure 1.. Journal of Neuroscience, 2008, 28, 11433-11434.	1.7	310
14	Cost and conflict in animal signals and human language. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 13189-13194.	3.3	276
15	Evolutionary principles and their practical application. Evolutionary Applications, 2011, 4, 159-183.	1.5	230
16	Applying evolutionary biology to address global challenges. Science, 2014, 346, 1245993.	6.0	228
17	Nodal Dynamics, Not Degree Distributions, Determine the Structural Controllability of Complex Networks. PLoS ONE, 2012, 7, e38398.	1.1	225
18	Bacteria are different: Observations, interpretations, speculations, and opinions about the mechanisms of adaptive evolution in prokaryotes. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 6981-6985.	3.3	215

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19	Men Set Their Own Cites High: Gender and Self-citation across Fields and over Time. <i>Socius</i> , 2017, 3, 237802311773890.	1.1	213
20	Differences in impact factor across fields and over time. <i>Journal of the Association for Information Science and Technology</i> , 2009, 60, 27-34.	2.6	197
21	Making evolutionary biology a basic science for medicine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 1800-1807.	3.3	189
22	Germline Bottlenecks and the Evolutionary Maintenance of Mitochondrial Genomes. <i>Genetics</i> , 1998, 149, 2135-2146.	1.2	171
23	Signaling among relatives. III. Talk is cheap. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 5100-5105.	3.3	162
24	Transmission bottlenecks as determinants of virulence in rapidly evolving pathogens. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 5095-5100.	3.3	159
25	The fitness value of information. <i>Oikos</i> , 2010, 119, 219-230.	1.2	153
26	On the evolutionary origin of aging. <i>Aging Cell</i> , 2007, 6, 235-244.	3.0	139
27	Publication bias and the canonization of false facts. <i>ELife</i> , 2016, 5, .	2.8	138
28	Multiple mating, sperm competition and meiotic drive. <i>Journal of Evolutionary Biology</i> , 1995, 8, 265-282.	0.8	137
29	Models of CD8+ Responses: 1. What is the Antigen-independent Proliferation Program. <i>Journal of Theoretical Biology</i> , 2003, 221, 585-598.	0.8	137
30	The Eigenfactor Metrics™: A Network Approach to Assessing Scholarly Journals. <i>College and Research Libraries</i> , 2010, 71, 236-244.	0.2	134
31	Stewardship of global collective behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	129
32	WITHIN-HOST POPULATION DYNAMICS AND THE EVOLUTION OF MICROPARASITES IN A HETEROGENEOUS HOST POPULATION. <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 213-223.	1.1	124
33	Misinformation in and about science. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	118
34	The Red King effect: When the slowest runner wins the coevolutionary race. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 593-598.	3.3	117
35	Assessing citations with the Eigenfactor™ Metrics. <i>Neurology</i> , 2008, 71, 1850-1851.	1.5	103
36	A Recommendation System Based on Hierarchical Clustering of an Article-Level Citation Network. <i>IEEE Transactions on Big Data</i> , 2016, 2, 113-123.	4.4	103

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37	Alarm calls as costly signals of antipredator vigilance: the watchful babbler game. <i>Animal Behaviour</i> , 2001, 61, 535-543.	0.8	100
38	The Evolution of Mutator Genes in Bacterial Populations: The Roles of Environmental Change and Timing. <i>Genetics</i> , 2003, 164, 843-854.	1.2	100
39	Signalling among relatives. I. Is costly signalling too costly?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1997, 352, 609-617.	1.8	82
40	Between cheap and costly signals: the evolution of partially honest communication. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20121878.	1.2	82
41	A population-epigenetic model to infer site-specific methylation rates from double-stranded DNA methylation patterns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 5802-5807.	3.3	81
42	The costs and benefits of library site licenses to academic journals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 897-902.	3.3	77
43	Signalling among Relatives. <i>Theoretical Population Biology</i> , 1998, 54, 146-160.	0.5	74
44	On the Evolution of Behavioral Heterogeneity in Individuals and Populations. <i>Biology and Philosophy</i> , 1998, 13, 205-231.	0.7	73
45	Theory, models and biology. <i>ELife</i> , 2015, 4, e07158.	2.8	73
46	The transmission sense of information. <i>Biology and Philosophy</i> , 2011, 26, 159-176.	0.7	70
47	When Unreliable Cues Are Good Enough. <i>American Naturalist</i> , 2013, 182, 313-327.	1.0	69
48	Author-level Eigenfactor metrics: Evaluating the influence of authors, institutions, and countries within the social science research network community. <i>Journal of the Association for Information Science and Technology</i> , 2013, 64, 787-801.	2.6	66
49	Contest models highlight inherent inefficiencies of scientific funding competitions. <i>PLoS Biology</i> , 2019, 17, e3000065.	2.6	57
50	Finding Cultural Holes: How Structure and Culture Diverge in Networks of Scholarly Communication. <i>Sociological Science</i> , 0, 1, 221-238.	2.0	52
51	A public choice framework for controlling transmissible and evolving diseases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 1696-1701.	3.3	50
52	Separating equilibria in continuous signalling games. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2002, 357, 1595-1606.	1.8	49
53	Big Macs and Eigenfactor scores: Don't let correlation coefficients fool you. <i>Journal of the Association for Information Science and Technology</i> , 2010, 61, 1800-1807.	2.6	47
54	Mathematical models of RNA silencing: Unidirectional amplification limits accidental self-directed reactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 11511-11516.	3.3	46

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55	The evolution of functionally referential meaning in a structured world. <i>Journal of Theoretical Biology</i> , 2007, 246, 225-233.	0.8	40
56	Effect of human leukocyte antigen heterozygosity on infectious disease outcome: The need for allele-specific measures. <i>BMC Medical Genetics</i> , 2003, 4, 2.	2.1	38
57	Pandemic Influenza: Risk of Multiple Introductions and the Need to Prepare for Them. <i>PLoS Medicine</i> , 2006, 3, e135.	3.9	37
58	Model-driven mitigation measures for reopening schools during the COVID-19 pandemic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	37
59	The economics of ecology journals. <i>Frontiers in Ecology and the Environment</i> , 2006, 4, 488-495.	1.9	36
60	How to improve the use of metrics. <i>Nature</i> , 2010, 465, 870-872.	13.7	36
61	Bivalve network reveals latitudinal selectivity gradient at the end-Cretaceous mass extinction. <i>Scientific Reports</i> , 2013, 3, .	1.6	35
62	How do adaptive immune systems control pathogens while avoiding autoimmunity?. <i>Trends in Ecology and Evolution</i> , 2006, 21, 22-28.	4.2	33
63	Little Evidence for Genetic Susceptibility to Influenza A (H5N1) from Family Clustering Data. <i>Emerging Infectious Diseases</i> , 2007, 13, 1074-1076.	2.0	31
64	Predicting an epidemic trajectory is difficult. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 28549-28551.	3.3	31
65	The disadvantage of combinatorial communication. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 2337-2343.	1.2	29
66	EVOLUTION AND MEDICINE IN UNDERGRADUATE EDUCATION: A PRESCRIPTION FOR ALL BIOLOGY STUDENTS. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 1991-2006.	1.1	29
67	COST EFFECTIVENESS OF OPEN ACCESS PUBLICATIONS. <i>Economic Inquiry</i> , 2014, 52, 1315-1321.	1.0	29
68	Does mother nature punish rotten kids?. , 1999, 1, 47-72.		18
69	Information gerrymandering in social networks skews collective decision-making. <i>Nature</i> , 2019, 573, 40-41.	13.7	18
70	Invited Commentary: Real-Time Tracking of Control Measures for Emerging Infections. <i>American Journal of Epidemiology</i> , 2004, 160, 517-519.	1.6	17
71	Adaptive behavior can produce maladaptive anxiety due to individual differences in experience. <i>Evolution, Medicine and Public Health</i> , 2016, 2016, 270-285.	1.1	16
72	Risky Business: Sexual and Asexual Reproduction in Variable Environments. <i>Journal of Theoretical Biology</i> , 1999, 197, 541-556.	0.8	12

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73	Evolutionary biology within medicine: a perspective of growing value. <i>BMJ: British Medical Journal</i> , 2011, 343, d7671-d7671.	2.4	12
74	Depression and anxiety: maladaptive byproducts of adaptive mechanisms. <i>Evolution, Medicine and Public Health</i> , 2016, 2016, 214-218.	1.1	12
75	More on Data Sharing. <i>New England Journal of Medicine</i> , 2016, 374, 1895-1897.	13.9	12
76	Timing of antimicrobial use influences the evolution of antimicrobial resistance during disease epidemics. <i>Evolution, Medicine and Public Health</i> , 2014, 2014, 150-161.	1.1	10
77	Mapping change in the overnight money market. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015, 424, 44-51.	1.2	10
78	Taking the bad with the good. <i>Nature</i> , 2015, 521, 431-432.	13.7	9
79	The ecology and evolution of antibiotic-resistant bacteria. , 2007, , 125-138.		9
80	Why ex post peer review encourages high-risk research while ex ante review discourages it. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	9
81	Can Ignorance Promote Democracy?. <i>Science</i> , 2011, 334, 1503-1504.	6.0	8
82	Response to commentaries on "The Transmission Sense of Information". <i>Biology and Philosophy</i> , 2011, 26, 195-200.	0.7	7
83	Honest signalling with costly gambles. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130469.	1.5	6
84	Multiple Outbreaks and Flu Containment Plans. <i>Science</i> , 2006, 312, 845b-845b.	6.0	5
85	Choosing Partners: A Classroom Experiment. <i>Journal of Economic Education</i> , 2013, 44, 47-57.	0.8	4
86	Author-Level Eigenfactor Metrics: Evaluating the Influence of Authors, Institutions and Countries Within the SSRN Community. <i>SSRN Electronic Journal</i> , 2011, , .	0.4	3
87	Mapping Change in the Federal Funds Market. <i>SSRN Electronic Journal</i> , 0, , .	0.4	3
88	On RNA interference as template immunity. <i>Journal of Biosciences</i> , 2005, 30, 295-297.	0.5	2
89	You lookin' at me?. <i>British Journal of Clinical Pharmacology</i> , 2016, 82, 1149-1149.	1.1	2
90	Response to "Big Macs and Eigenfactor scores: The correlation conundrum". <i>Journal of the Association for Information Science and Technology</i> , 2010, 61, 2592-2592.	2.6	1

#	ARTICLE	IF	CITATIONS
91	Reply to Cheong and Jones: The role of science in responding to collective behavioral threats. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2114477118.	3.3	1
92	well-formed.eigenfactor. , 2009, , .		0
93	well-formed.eigenfactor. , 2009, , .		0