Sam P Brown

List of Publications by Year
in descending order

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102 papers	7,487 citations	57631 44 h-index	60497 81 g-index
124 all docs	124 docs citations	124 times ranked	8691 citing authors

#	Article	IF	Citations
1	Challenges and opportunities for cheat therapy in the control of bacterial infections. Natural Product Reports, 2022, 39, 325-334.	5.2	1
2	Bacterial Quorum Sensing Allows Graded and Bimodal Cellular Responses to Variations in Population Density. MBio, 2022, 13, e0074522.	1.8	19
3	Microbiome Data Enhances Predictive Models of Lung Function in People With Cystic Fibrosis. Journal of Infectious Diseases, 2021, 223, S246-S256.	1.9	12
4	Community lifespan, niche expansion and the evolution of interspecific cooperation. Journal of Evolutionary Biology, 2021, 34, 352-363.	0.8	0
5	Bacteria can be selected to help beneficial plasmids spread. PLoS Biology, 2021, 19, e3001489.	2.6	1
6	Steering Phages to Combat Bacterial Pathogens. Trends in Microbiology, 2020, 28, 85-94.	3.5	54
7	In silico bacteria evolve robust cooperation via complex quorum-sensing strategies. Scientific Reports, 2020, 10, 8628.	1.6	4
8	Allelic polymorphism shapes community function in evolving Pseudomonas aeruginosa populations. ISME Journal, 2020, 14, 1929-1942.	4.4	47
9	Combinatorial quorum sensing in Pseudomonas aeruginosa allows for novel cheating strategies. Microbiology (United Kingdom), 2020, 166, 777-784.	0.7	10
10	Resistance diagnostics as a public health tool to combat antibiotic resistance: A model-based evaluation. PLoS Biology, 2019, 17, e3000250.	2.6	33
11	Haemolymph removal by Varroa mite destabilizes the dynamical interaction between immune effectors and virus in bees, as predicted by Volterra's model. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20190331.	1.2	53
12	Individualâ€•versus groupâ€optimality in the production of secreted bacterial compounds. Evolution; International Journal of Organic Evolution, 2019, 73, 675-688.	1.1	21
13	Evolving Antibiotics against Resistance: a Potential Platform for Natural Product Development?. MBio, 2019, 10, .	1.8	2
14	Environmentally Mediated Social Dilemmas. Trends in Ecology and Evolution, 2019, 34, 6-18.	4.2	77
15	Pneumococcal quorum sensing drives an asymmetric ownerâ€“intruder competitive strategy during carriage via the competence regulon. Nature Microbiology, 2019, 4, 198-208.	5.9	43
16	Within-host interference competition can prevent invasion of rare parasites. Parasitology, 2018, 145, 770-774.	0.7	5
17	Evolution of bacterial trade in a two-species community. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11874-11875.	3.3	11
18	The State of the Union Is Strong: a Review of ASM's 6th Conference on Cell-Cell Communication in Bacteria. Journal of Bacteriology, 2018, 200, .	1.0	0

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19	Community interactions and spatial structure shape selection on antibiotic resistant lineages. PLoS Computational Biology, 2018, 14, e1006179.	1.5	69
20	Manipulating virulence factor availability can have complex consequences for infections. Evolutionary Applications, 2017, 10, 91-101.	1.5	29
21	Killing by Type VI secretion drives genetic phase separation and correlates with increased cooperation. Nature Communications, 2017, 8, 14371.	5.8	143
22	The route of infection determines Wolbachia antibacterial protection in Drosophila. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170809.	1.2	43
23	Division of Labor, Bet Hedging, and the Evolution of Mixed Biofilm Investment Strategies. MBio, 2017, 8, .	1.8	36
24	Alternative therapeutics for self-limiting infectionsâ€"An indirect approach to the antibiotic resistance challenge. PLoS Biology, 2017, 15, e2003533.	2.6	12
25	Controlling Rogue Cells in Cancer and Bacterial Infections. , 2017, , 243-246.		1
26	Microbiome: Ecology of stable gut communities. Nature Microbiology, 2016, 1, 15016.	5.9	26
27	Challenges in microbial ecology: building predictive understanding of community function and dynamics. ISME Journal, 2016, 10, 2557-2568.	4.4	570
28	Visualizing evolution as it happens. Science, 2016, 353, 1096-1097.	6.0	0
29	An oscillating tragedy of the commons in replicator dynamics with game-environment feedback. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E7518-E7525.	3.3	168
30	Quorum sensing protects bacterial co-operation from exploitation by cheats. ISME Journal, 2016, 10, 1706-1716.	4.4	67
31	The biogeography of polymicrobial infection. Nature Reviews Microbiology, 2016, 14, 93-105.	13.6	233
32	Indirect Fitness Benefits Enable the Spread of Host Genes Promoting Costly Transfer of Beneficial Plasmids. PLoS Biology, 2016, 14, e1002478.	2.6	25
33	Building the microbiome in health and disease: niche construction and social conflict in bacteria. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140298.	1.8	63
34	The demographic determinants of human microbiome health. Trends in Microbiology, 2015, 23, 134-141.	3.5	17
35	Collective sensing and collective responses in quorum-sensing bacteria. Journal of the Royal Society Interface, 2015, 12, 20140882.	1.5	99
36	Bacterial Cooperation Causes Systematic Errors in Pathogen Risk Assessment due to the Failure of the Independent Action Hypothesis. PLoS Pathogens, 2015, 11, e1004775.	2.1	26

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37	Conflict of interest and signal interference lead to the breakdown of honest signaling. Evolution; International Journal of Organic Evolution, 2015, 69, 2371-2383.	1.1	35
38	Single gene locus changes perturb complex microbial communities as much as apex predator loss. Nature Communications, 2015, 6, 8235.	5.8	15
39	Genetic information transfer promotes cooperation in bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11103-11108.	3.3	86
40	Limiting Damage during Infection: Lessons from Infection Tolerance for Novel Therapeutics. PLoS Biology, 2014, 12, e1001769.	2.6	111
41	Cooperative secretions facilitate host range expansion in bacteria. Nature Communications, 2014, 5, 4594.	5.8	43
42	Gallium-mediated siderophore quenching as an evolutionarily robust antibacterial treatment. Evolution, Medicine and Public Health, 2014, 2014, 18-29.	1.1	106
43	Targeting virulence: can we make evolution-proof drugs?. Nature Reviews Microbiology, 2014, 12, 300-308.	13.6	446
44	Combinatorial quorum sensing allows bacteria to resolve their social and physical environment. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4280-4284.	3.3	163
45	War and peace: social interactions in infections. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130365.	1.8	50
46	Life in cells, hosts, and vectors: Parasite evolution across scales. Infection, Genetics and Evolution, 2013, 13, 344-347.	1.0	6
47	Metabolic and Demographic Feedbacks Shape the Emergent Spatial Structure and Function of Microbial Communities. PLoS Computational Biology, 2013, 9, e1003398.	1.5	71
48	The Evolution of Collective Restraint: Policing and Obedience among Non-conjugative Plasmids. PLoS Computational Biology, 2013, 9, e1003036.	1.5	9
49	The interplay between relatedness and horizontal gene transfer drives the evolution of plasmid-carried public goods. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20130400.	1.2	31
50	Synergistic Parasite-Pathogen Interactions Mediated by Host Immunity Can Drive the Collapse of Honeybee Colonies. PLoS Pathogens, 2012, 8, e1002735.	2.1	364
51	The coevolution of toxin and antitoxin genes drives the dynamics of bacterial addiction complexes and intragenomic conflict. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 3706-3715.	1.2	15
52	From Metabolism to Ecology: Cross-Feeding Interactions Shape the Balance between Polymicrobial Conflict and Mutualism. American Naturalist, 2012, 180, 566-576.	1.0	71
53	The mode of hostâ€“parasite interaction shapes coevolutionary dynamics and the fate of host cooperation. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 3742-3748.	1.2	29
54	Evolution of virulence in opportunistic pathogens: generalism, plasticity, and control. Trends in Microbiology, 2012, 20, 336-342.	3.5	321

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55	Synergy and Group Size in Microbial Cooperation. American Naturalist, 2012, 180, 296-305.	1.0	69
56	Within-Host Dynamics of Multi-Species Infections: Facilitation, Competition and Virulence. PLoS ONE, 2012, 7, e38730.	1.1	43
57	Experimental Evolution of a Bacteriophage Virus Reveals the Trajectory of Adaptation across a Fecundity/Longevity Trade-Off. PLoS ONE, 2012, 7, e46322.	1.1	22
58	Cooperation and the evolution of intelligence. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 3027-3034.	1.2	58
59	SPITE VERSUS CHEATS: COMPETITION AMONG SOCIAL STRATEGIES SHAPES VIRULENCE IN PSEUDOMONAS AERUGINOSA. Evolution; International Journal of Organic Evolution, 2012, 66, 3472-3484.	1.1	22
60	Selection on nonâ€social traits limits the invasion of social cheats. Ecology Letters, 2012, 15, 841-846.	3.0	57
61	HORIZONTAL GENE TRANSFER AND THE EVOLUTION OF BACTERIAL COOPERATION. Evolution; International Journal of Organic Evolution, 2011, 65, 21-32.	1.1	79
62	SOCIAL DILEMMAS AMONG SUPERGENES: INTRAGENOMIC SEXUAL CONFLICT AND A SELFING SOLUTION IN OENOTHERA. Evolution; International Journal of Organic Evolution, 2011, 65, 3360-3367.	1.1	7
63	What traits are carried on mobile genetic elements, and why?. Heredity, 2011, 106, 1-10.	1.2	266
64	Inclusive fitness theory and eusociality. Nature, 2011, 471, E1-E4.	13.7	339
65	Bacterial cooperation controlled by mobile elements: kin selection and infectivity are part of the same process. Heredity, 2011, 107, 279-281.	1.2	11
66	Within-Host Competition Drives Selection for the Capsule Virulence Determinant of Streptococcus pneumoniae. Current Biology, 2010, 20, 1222-1226.	1.8	89
67	Joint evolution of multiple social traits: a kin selection analysis. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 415-422.	1.2	39
68	Molecular and regulatory properties of a public good shape the evolution of cooperation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18921-18926.	3.3	117
69	Social evolution in micro-organisms and a Trojan horse approach to medical intervention strategies. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 3157-3168.	1.8	127
70	Bacterial Growth Rate and Host Factors as Determinants of Intracellular Bacterial Distributions in SystemicSalmonella entericaInfections. Infection and Immunity, 2009, 77, 5608-5611.	1.0	16
71	Making sense of microbial consortia using ecology and evolution. Trends in Biotechnology, 2009, 27, 3-4.	4.9	22
72	SYNTHESIS: Evolutionary ecology of microbial wars: withinâ€host competition and (incidental) virulence. Evolutionary Applications, 2009, 2, 32-39.	1.5	86

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73	Horizontal Gene Transfer of the Secretome Drives the Evolution of Bacterial Cooperation and Virulence. Current Biology, 2009, 19, 1683-1691.	1.8	217
74	Evolution of virulence: triggering host inflammation allows invading pathogens to exclude competitors. Ecology Letters, 2008, 11, 44-51.	3.0	53
75	Collective action in an RNA virus. Journal of Evolutionary Biology, 2008, 14, 821-828.	0.8	63
76	Caspaseâ€3â€dependent phagocyte death during systemic Salmonella enterica serovar Typhimurium infection of mice. Immunology, 2008, 125, 28-37.	2.0	33
77	Evolution of pathogens in a manâ€made world. Molecular Ecology, 2008, 17, 475-484.	2.0	72
78	A Social Life for Discerning Microbes. Cell, 2008, 135, 600-603.	13.5	45
79	The Durability of Public Goods Changes the Dynamics and Nature of Social Dilemmas. PLoS ONE, 2007, 2, e593.	1.1	36
80	'Suicide' of crickets harbouring hairworms: a proteomics investigation. Insect Molecular Biology, 2006, 15, 731-742.	1.0	83
81	Ecology of Microbial Invasions: Amplification Allows Virus Carriers to Invade More Rapidly When Rare. Current Biology, 2006, 16, 2048-2052.	1.8	129
82	Cooperation: Integrating Evolutionary and Ecological Perspectives. Current Biology, 2006, 16, R960-R961.	1.8	4
83	Putting â€˜red alertsâ€™ in an ecological and evolutionary context. BioEssays, 2006, 28, 959-959.	1.2	8
84	Intracellular Demography and the Dynamics of Salmonella enterica Infections. PLoS Biology, 2006, 4, e349.	2.6	68
85	Avoid, attack or do both? Behavioral and physiological adaptations in natural enemies faced with novel hosts. BMC Evolutionary Biology, 2005, 5, 60.	3.2	8
86	Do all parasites manipulate their hosts?. Behavioural Processes, 2005, 68, 237-240.	0.5	7
87	The coevolution theory of autumn colours. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 1219-1223.	1.2	104
88	Human birthweight evolution across contrasting environments. Journal of Evolutionary Biology, 2004, 17, 542-553.	0.8	52
89	The joint evolution of defence and inducibility against natural enemies. Journal of Theoretical Biology, 2004, 231, 389-396.	0.8	16
90	Understanding parasite strategies. Trends in Parasitology, 2003, 19, 16-17.	1.5	0

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91	Defence against multiple enemies. Journal of Evolutionary Biology, 2003, 16, 1319-1327.	0.8	27
92	FIELD EVIDENCE FOR DENSITY-DEPENDENT EFFECTS IN THE TREMATODE MICROPHALLUS PAPILLOROBUSTUS IN ITS MANIPULATED HOST, GAMMARUS INSENSIBILIS. Journal of Parasitology, 2003, 89, 668-672.	0.3	39
93	SOCIALLY MEDIATED SPECIATION. Evolution; International Journal of Organic Evolution, 2003, 57, 154.	1.1	5
94	Evolution of Trophic Transmission in Parasites: Why Add Intermediate Hosts?. American Naturalist, 2003, 162, 172-181.	1.0	96
95	Does multiple infection select for raised virulence?. Trends in Microbiology, 2002, 10, 401-405.	3.5	233
96	Host manipulation by Ligula intestinalis : a cause or consequence of parasite aggregation?. International Journal for Parasitology, 2002, 32, 817-824.	1.3	18
97	Understanding parasite strategies: a state-dependent approach?. Trends in Parasitology, 2002, 18, 387-390.	1.5	113
98	Cooperation in the dark: signalling and collective action in quorum-sensing bacteria. Proceedings of the Royal Society B: Biological Sciences, 2001, 268, 961-965.	1.2	152
99	Evolution of trophic transmission in parasites: the need to reach a mating place?. Journal of Evolutionary Biology, 2001, 14, 815-820.	0.8	67
100	PHENOTYPIC MODIFICATION OF ROACH (RUTILUS RUTILUSL.) INFECTED WITHLIGULA INTESTINALISL. (CESTODA: PSEUDOPHYLLIDEA). Journal of Parasitology, 2001, 87, 1002-1010.	0.3	27
101	An unlikely partnership: parasites, concomitant immunity and host defence. Proceedings of the Royal Society B: Biological Sciences, 2001, 268, 2543-2549.	1.2	87
102	Cooperation and conflict in hostâ€“manipulating parasites. Proceedings of the Royal Society B: Biological Sciences, 1999, 266, 1899-1904.	1.2	118