Angus Buckling

List of Publications by Citations

199 papers	13,103 citations	63 h-index	110 g-index
215 ext. papers	15,785 ext. citations	9.6 avg, IF	6.75 L-index

#	Paper	IF	Citations
199	Cooperation and competition in pathogenic bacteria. *Nature*, **2004**, 430, 1024-7	50.4	711
198	The Social Lives of Microbes. *Annual Review of Ecology, Evolution, and Systematics*, **2007**, 38, 53-77	13.5	478
197	Antagonistic coevolution between a bacterium and a bacteriophage. *Proceedings of the Royal Society B: Biological Sciences*, **2002**, 269, 931-6	4.4	452
196	Antagonistic coevolution accelerates molecular evolution. *Nature*, **2010**, 464, 275-8	50.4	367
195	Big questions, small worlds: microbial model systems in ecology. *Trends in Ecology and Evolution*, **2004**, 19, 189-97	10.9	338
194	Bacteria-phage antagonistic coevolution in soil. *Science*, **2011**, 332, 106-9	33.3	309
193	Diversity peaks at intermediate productivity in a laboratory microcosm. *Nature*, **2000**, 406, 508-12	50.4	249
192	Cooperation, virulence and siderophore production in bacterial parasites. *Proceedings of the Royal Society B: Biological Sciences*, **2003**, 270, 37-44	4.4	243
191	Disturbance and diversity in experimental microcosms. *Nature*, **2000**, 408, 961-4	50.4	236
190	The role of parasites in sympatric and allopatric host diversification. *Nature*, **2002**, 420, 496-9	50.4	229
189	Coevolution with viruses drives the evolution of bacterial mutation rates. *Nature*, **2007**, 450, 1079-81	50.4	223
188	The effect of migration on local adaptation in a coevolving host-parasite system. *Nature*, **2005**, 437, 253-6	50.4	214
187	CRISPR-Cas systems: beyond adaptive immunity. *Nature Reviews Microbiology*, **2014**, 12, 317-26	22.2	213
186	The causes of Pseudomonas diversity. *Microbiology (United Kingdom)*, **2000**, 146 (Pt 10), 2345-2350	2.9	210
185	Host-parasite coevolutionary arms races give way to fluctuating selection. *Ecology Letters*, **2011**, 14, 635-42	14	199
184	The phage therapy paradigm: prêt-à-porter or sur-mesure?. *Pharmaceutical Research*, **2011**, 28, 934-7	4.5	188
183	Bacteriocins, spite and virulence. *Proceedings of the Royal Society B: Biological Sciences*, **2004**, 271, 1529-35	4.4	186

182	Cooperation and virulence of clinical Pseudomonas aeruginosa populations. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 6339-44	11.5	178
181	Prophages mediate defense against phage infection through diverse mechanisms. *ISME Journal*, **2016**, 10, 2854-2866	11.9	176
180	Differential impact of simultaneous migration on coevolving hosts and parasites. *BMC Evolutionary Biology*, **2007**, 7, 1	3	174
179	The Beagle in a bottle. *Nature*, **2009**, 457, 824-9	50.4	167
178	The diversity-generating benefits of a prokaryotic adaptive immune system. *Nature*, **2016**, 532, 385-8	50.4	167
177	Parasite Exposure Drives Selective Evolution of Constitutive versus Inducible Defense. *Current Biology*, **2015**, 25, 1043-9	6.3	166
176	Rapid evolution of metabolic traits explains thermal adaptation in phytoplankton. *Ecology Letters*, **2016**, 19, 133-142	10	162
175	Cooperation and virulence in acute Pseudomonas aeruginosa infections. *BMC Biology*, **2006**, 4, 21	7.3	151
174	Viscous medium promotes cooperation in the pathogenic bacterium Pseudomonas aeruginosa. *Proceedings of the Royal Society B: Biological Sciences*, **2009**, 276, 3531-8	4.4	147
173	The emergence and maintenance of diversity: insights from experimental bacterial populations. *Trends in Ecology and Evolution*, **2000**, 15, 243-247	10.9	146
172	The population genetics of antibiotic resistance: integrating molecular mechanisms and treatment contexts. *Nature Reviews Genetics*, **2010**, 11, 405-14	30.1	140
171	The evolution of specificity in evolving and coevolving antagonistic interactions between a bacteria and its phage. *Evolution; International Journal of Organic Evolution*, **2008**, 62, 1-11	3.8	140
170	Evolutionary Ecology of Prokaryotic Immune Mechanisms. *Microbiology and Molecular Biology Reviews*, **2016**, 80, 745-63	13.2	139
169	Quality and safety requirements for sustainable phage therapy products. *Pharmaceutical Research*, **2015**, 32, 2173-9	4.5	129
168	Quorum sensing inhibition selects for virulence and cooperation in Pseudomonas aeruginosa. *PLoS Pathogens*, **2010**, 6, e1000883	7.6	127
167	Local adaptation of bacteriophages to their bacterial hosts in soil. *Science*, **2009**, 325, 833	33.3	125
166	Siderophore-mediated cooperation and virulence in Pseudomonas aeruginosa. *FEMS Microbiology Ecology*, **2007**, 62, 135-41	4.3	119
165	Population mixing accelerates coevolution. *Ecology Letters*, **2003**, 6, 975-979	10	118

164	Interspecific competition and siderophore-mediated cooperation in Pseudomonas aeruginosa. *ISME Journal*, **2008**, 2, 49-55	11.9	112
163	Anti-CRISPR Phages Cooperate to Overcome CRISPR-Cas Immunity. *Cell*, **2018**, 174, 908-916.e12	56.2	108
162	The effect of a bacteriophage on diversification of the opportunistic bacterial pathogen, Pseudomonas aeruginosa. *Proceedings of the Royal Society B: Biological Sciences*, **2005**, 272, 1385-91	4.4	108
161	Spite and virulence in the bacterium Pseudomonas aeruginosa. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 5703-7	11.5	105
160	Cooperation peaks at intermediate disturbance. *Current Biology*, **2007**, 17, 761-5	6.3	104
159	Phenotypic switching of antibiotic resistance circumvents permanent costs in Staphylococcus aureus. *Current Biology*, **2001**, 11, 1810-4	6.3	103
158	Experimental coevolution with bacteria and phage. The Pseudomonas fluorescens--Phi2 model system. *Infection, Genetics and Evolution*, **2007**, 7, 547-52	4.5	99
157	Mechanisms linking diversity, productivity and invasibility in experimental bacterial communities. *Proceedings of the Royal Society B: Biological Sciences*, **2002**, 269, 2277-83	4.4	97
156	The effect of spatial heterogeneity and parasites on the evolution of host diversity. *Proceedings of the Royal Society B: Biological Sciences*, **2004**, 271, 107-11	4.4	96
155	Character displacement promotes cooperation in bacterial biofilms. *Current Biology*, **2006**, 16, 2030-4	6.3	95
154	Effects of sequential and simultaneous applications of bacteriophages on populations of Pseudomonas aeruginosa in vitro and in wax moth larvae. *Applied and Environmental Microbiology*, **2012**, 78, 5646-52	4.8	92
153	Density dependence and cooperation: theory and a test with bacteria. *Evolution; International Journal of Organic Evolution*, **2009**, 63, 2315-25	3.8	90
152	Generalism and the evolution of parasite virulence. *Trends in Ecology and Evolution*, **2013**, 28, 592-6	10.9	88
151	The distribution of fitness effects of beneficial mutations in Pseudomonas aeruginosa. *PLoS Genetics*, **2009**, 5, e1000406	6	88
150	Adaptation limits diversification of experimental bacterial populations. *Science*, **2003**, 302, 2107-9	33.3	86
149	Local biotic environment shapes the spatial scale of bacteriophage adaptation to bacteria. *American Naturalist*, **2011**, 177, 440-51	3.7	84
148	Antagonistic coevolution with parasites increases the cost of host deleterious mutations. *Proceedings of the Royal Society B: Biological Sciences*, **2006**, 273, 45-9	4.4	84
147	Interference competition and parasite virulence. *Proceedings of the Royal Society B: Biological Sciences*, **2004**, 271, 785-8	4.4	84

146	The costs of evolving resistance in heterogeneous parasite environments. *Proceedings of the Royal Society B: Biological Sciences*, **2012**, 279, 1896-903	4.4	82
145	Adaptation of phytoplankton to a decade of experimental warming linked to increased photosynthesis. *Nature Ecology and Evolution*, **2017**, 1, 94	12.3	78
144	Source-sink dynamics shape the evolution of antibiotic resistance and its pleiotropic fitness cost. *Proceedings of the Royal Society B: Biological Sciences*, **2007**, 274, 2351-6	4.4	78
143	Coevolution with bacteriophages drives genome-wide host evolution and constrains the acquisition of abiotic-beneficial mutations. *Molecular Biology and Evolution*, **2015**, 32, 1425-35	8.3	77
142	Genetic basis of infectivity evolution in a bacteriophage. *Molecular Ecology*, **2011**, 20, 981-9	5.7	77
141	Bacteria-phage coevolution and the emergence of generalist pathogens. *American Naturalist*, **2011**, 177, 44-53	3.7	72
140	Co-evolution with lytic phage selects for the mucoid phenotype of Pseudomonas fluorescens SBW25. *ISME Journal*, **2012**, 6, 1148-58	11.9	70
139	DDT resistance in flies carries no cost. *Current Biology*, **2005**, 15, R587-9	6.3	69
138	Phages limit the evolution of bacterial antibiotic resistance in experimental microcosms. *Evolutionary Applications*, **2012**, 5, 575-82	4.8	65
137	Resource supply and the evolution of public-goods cooperation in bacteria. *BMC Biology*, **2008**, 6, 20	7.3	63
136	Effects of predation on real-time host-parasite coevolutionary dynamics. *Ecology Letters*, **2013**, 16, 39-46	10	62
135	Niche occupation limits adaptive radiation in experimental microcosms. *PLoS ONE*, **2007**, 2, e193	3.7	62
134	Siderophore production and biofilm formation as linked social traits. *ISME Journal*, **2009**, 3, 632-4	11.9	60
133	Introducing yesterday's phage therapy in today's medicine. *Future Virology*, **2012**, 7, 379-390	2.4	58
132	Ecological selection of siderophore-producing microbial taxa in response to heavy metal contamination. *Ecology Letters*, **2018**, 21, 117-127	10	58
131	Diversity-disturbance relationships: frequency and intensity interact. *Biology Letters*, **2012**, 8, 768-71	3.6	53
130	Real-time microbial adaptive diversification in soil. *Ecology Letters*, **2013**, 16, 650-5	10	51
129	Host mixing and disease emergence. *Current Biology*, **2009**, 19, 764-7	6.3	51

128	Local adaptation of a bacterium is as important as its presence in structuring a natural microbial community. *Nature Communications*, **2016**, 7, 12453	17.4	50
127	Bacteriophage selection against a plasmid-encoded sex apparatus leads to the loss of antibiotic-resistance plasmids. *Biology Letters*, **2011**, 7, 902-5	3.6	50
126	Co-evolution with Staphylococcus aureus leads to lipopolysaccharide alterations in Pseudomonas aeruginosa. *ISME Journal*, **2017**, 11, 2233-2243	11.9	49
125	Bacteria-virus coevolution. *Advances in Experimental Medicine and Biology*, **2012**, 751, 347-70	3.6	48
124	Hypermutability impedes cooperation in pathogenic bacteria. *Current Biology*, **2005**, 15, 1968-71	6.3	48
123	Population mixing promotes arms race host-parasite coevolution. *Proceedings of the Royal Society B: Biological Sciences*, **2015**, 282, 20142297	4.4	46
122	Metabolic compensation constrains the temperature dependence of gross primary production. *Ecology Letters*, **2017**, 20, 1250-1260	10	46
121	Higher resources decrease fluctuating selection during host-parasite coevolution. *Ecology Letters*, **2014**, 17, 1380-8	10	46
120	Selection on non-social traits limits the invasion of social cheats. *Ecology Letters*, **2012**, 15, 841-6	10	45
119	A Single Community Dominates Structure and Function of a Mixture of Multiple Methanogenic Communities. *Current Biology*, **2017**, 27, 3390-3395.e4	6.3	44
118	Selection for antimicrobial resistance is reduced when embedded in a natural microbial community. *ISME Journal*, **2019**, 13, 2927-2937	11.9	44
117	Gut dysbiosis in cystic fibrosis. *Journal of Cystic Fibrosis*, **2012**, 11, 454-5	4.1	44
116	The Reproductive Microbiome: An Emerging Driver of Sexual Selection, Sexual Conflict, Mating Systems, and Reproductive Isolation. *Trends in Ecology and Evolution*, **2020**, 35, 220-234	10.9	43
115	Antagonistic coevolution limits population persistence of a virus in a thermally deteriorating environment. *Ecology Letters*, **2011**, 14, 282-8	10	43
114	Plasmodium chabaudi: effect of antimalarial drugs on gametocytogenesis. *Experimental Parasitology*, **1999**, 93, 45-54	2.1	43
113	Hypermutability and compensatory adaptation in antibiotic-resistant bacteria. *American Naturalist*, **2010**, 176, 303-11	3.7	42
112	Siderophore cooperation of the bacterium Pseudomonas fluorescens in soil. *Biology Letters*, **2015**, 11, 20140934	3.6	41
111	The effect of partial host immunity on the transmission of malaria parasites. *Proceedings of the Royal Society B: Biological Sciences*, **2001**, 268, 2325-30	4.4	41

110	Protist predation can favour cooperation within bacterial species. *Biology Letters*, **2013**, 9, 20130548	3.6	40
109	Agr interference between clinical Staphylococcus aureus strains in an insect model of virulence. *Journal of Bacteriology*, **2006**, 188, 7686-8	3.5	40
108	Virus Satellites Drive Viral Evolution and Ecology. *PLoS Genetics*, **2015**, 11, e1005609	6	40
107	Microbial experiments on adaptive landscapes. *BioEssays*, **2005**, 27, 1167-73	4.1	38
106	Experimental evolution of adaptive phenotypic plasticity in a parasite. *Current Biology*, **2013**, 23, 139-42	6.3	35
105	A social life for discerning microbes. *Cell*, **2008**, 135, 600-3	56.2	35
104	The interactive effects of parasites, disturbance, and productivity on experimental adaptive radiations. *Evolution; International Journal of Organic Evolution*, **2008**, 62, 467-77	3.8	35
103	Experimental evolution and bacterial resistance: (co)evolutionary costs and trade-offs as opportunities in phage therapy research. *Bacteriophage*, **2015**, 5, e1050153		34
102	A trade-off between oxidative stress resistance and DNA repair plays a role in the evolution of elevated mutation rates in bacteria. *Proceedings of the Royal Society B: Biological Sciences*, **2013**, 280, 20130007	4.4	32
101	Ecological drivers of the evolution of public-goods cooperation in bacteria. *Ecology*, **2010**, 91, 334-40	4.6	32
100	Protists have divergent effects on bacterial diversity along a productivity gradient. *Biology Letters*, **2010**, 6, 639-42	3.6	31
99	Social evolution of toxic metal bioremediation in Pseudomonas aeruginosa. *Proceedings of the Royal Society B: Biological Sciences*, **2014**, 281,	4.4	30
98	Pseudomonas aeruginosa adaptation to lungs of cystic fibrosis patients leads to lowered resistance to phage and protist enemies. *PLoS ONE*, **2013**, 8, e75380	3.7	30
97	Study of the attachment of Pseudomonas aeruginosa on gold and modified gold surfaces using surface plasmon resonance. *Biotechnology Progress*, **2004**, 20, 1233-6	2.8	30
96	Growth rate, transmission mode and virulence in human pathogens. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2017**, 372,	5.8	29
95	Cooperative production of siderophores by Pseudomonas aeruginosa. *Frontiers in Bioscience - Landmark*, **2009**, 14, 4113-26	2.8	29
94	Source populations act as coevolutionary pacemakers in experimental selection mosaics containing hotspots and coldspots. *American Naturalist*, **2009**, 173, E171-6	3.7	27
93	The impact of migration from parasite-free patches on antagonistic host-parasite coevolution. *Evolution; International Journal of Organic Evolution*, **2007**, 61, 1238-43	3.8	27

92	Evolutionary temperature compensation of carbon fixation in marine phytoplankton. *Ecology Letters*, **2020**, 23, 722-733	10	26
91	Immigration of susceptible hosts triggers the evolution of alternative parasite defence strategies. *Proceedings of the Royal Society B: Biological Sciences*, **2016**, 283,	4.4	26
90	The effect of elevated mutation rates on the evolution of cooperation and virulence of Pseudomonas aeruginosa. *Evolution; International Journal of Organic Evolution*, **2010**, 64, 515-21	3.8	26
89	Impact of bacterial mutation rate on coevolutionary dynamics between bacteria and phages. *Evolution; International Journal of Organic Evolution*, **2010**, 64, 2980-7	3.8	26
88	Bacteria from natural populations transfer plasmids mostly towards their kin. *Proceedings of the Royal Society B: Biological Sciences*, **2019**, 286, 20191110	4.4	25
87	Multidrug therapy and evolution of antibiotic resistance: when order matters. *Applied and Environmental Microbiology*, **2012**, 78, 6137-42	4.8	24
86	Quantifying the relative importance of niches and neutrality for coexistence in a model microbial system. *Functional Ecology*, **2009**, 23, 1139-1147	5.6	24
85	Surface plasmon resonance shows that type IV pili are important in surface attachment by Pseudomonas aeruginosa. *Journal of the Royal Society Interface*, **2005**, 2, 255-9	4.1	24
84	Environmental regulation of mutation rates at specific sites. *Trends in Microbiology*, **2002**, 10, 580-4	12.4	24
83	The effect of phage genetic diversity on bacterial resistance evolution. *ISME Journal*, **2020**, 14, 828-836	11.9	24
82	Spatial structure mitigates fitness costs in host-parasite coevolution. *American Naturalist*, **2014**, 183, E64-74	3.7	23
81	The impact of resource availability on bacterial resistance to phages in soil. *PLoS ONE*, **2015**, 10, e0123752	3.7	23
80	Phages can constrain protist predation-driven attenuation of Pseudomonas aeruginosa virulence in multienemy communities. *ISME Journal*, **2014**, 8, 1820-30	11.9	23
79	Coevolution between cooperators and cheats in a microbial system. *Evolution; International Journal of Organic Evolution*, **2009**, 63, 2248-56	3.8	23
78	Spite and the scale of competition in Pseudomonas aeruginosa. *American Naturalist*, **2011**, 178, 276-85	3.7	23
77	Community coalescence: an eco-evolutionary perspective. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2020**, 375, 20190252	5.8	22
76	The mode of host-parasite interaction shapes coevolutionary dynamics and the fate of host cooperation. *Proceedings of the Royal Society B: Biological Sciences*, **2012**, 279, 3742-8	4.4	22
75	Adaptation to public goods cheats in. *Proceedings of the Royal Society B: Biological Sciences*, **2017**, 284,	4.4	22

74	Temperature-dependent changes to host-parasite interactions alter the thermal performance of a bacterial host. *ISME Journal*, **2020**, 14, 389-398	11.9	22
73	Spite versus cheats: competition among social strategies shapes virulence in Pseudomonas aeruginosa. *Evolution; International Journal of Organic Evolution*, **2012**, 66, 3472-84	3.8	21
72	Host diversity limits the evolution of parasite local adaptation. *Molecular Ecology*, **2017**, 26, 1756-1763	5.7	21
71	Coevolution with phages does not influence the evolution of bacterial mutation rates in soil. *ISME Journal*, **2013**, 7, 2242-4	11.9	21
70	Competition and dispersal in Pseudomonas aeruginosa. *American Naturalist*, **2010**, 176, 83-9	3.7	21
69	Identification of factors contributing to T-cell toxicity of Staphylococcus aureus clinical isolates. *Journal of Clinical Microbiology*, **2008**, 46, 2112-4	9.7	21
68	Resident microbial communities inhibit growth and antibiotic-resistance evolution of Escherichia coli in human gut microbiome samples. *PLoS Biology*, **2020**, 18, e3000465	9.7	20
67	Adaptation to abiotic conditions drives local adaptation in bacteria and viruses coevolving in heterogeneous environments. *Biology Letters*, **2016**, 12, 20150879	3.6	19
66	Iron availability shapes the evolution of bacteriocin resistance in Pseudomonas aeruginosa. *ISME Journal*, **2016**, 10, 2060-6	11.9	18
65	High relatedness selects against hypermutability in bacterial metapopulations. *Proceedings of the Royal Society B: Biological Sciences*, **2007**, 274, 1341-7	4.4	18
64	Host-parasite fluctuating selection in the absence of specificity. *Proceedings of the Royal Society B: Biological Sciences*, **2017**, 284,	4.4	17
63	Using experimental evolution to explore natural patterns between bacterial motility and resistance to bacteriophages. *ISME Journal*, **2011**, 5, 1809-17	11.9	17
62	Parasites mediate the relationship between host diversity and disturbance frequency. *Ecology Letters*, **2004**, 7, 1029-1034	10	17
61	Selection experiments reveal trade-offs between swimming and twitching motilities in Pseudomonas aeruginosa. *Evolution; International Journal of Organic Evolution*, **2011**, 65, 3060-9	3.8	16
60	Biodiversity-function relationships in methanogenic communities. *Molecular Ecology*, **2018**, 27, 4641-4654	5.7	16
59	Linking phytoplankton community metabolism to the individual size distribution. *Ecology Letters*, **2018**, 21, 1152-1161	10	16
58	Coevolutionary dynamics shape the structure of bacteria-phage infection networks. *Evolution; International Journal of Organic Evolution*, **2019**, 73, 1001-1011	3.8	14
57	Host population bottlenecks drive parasite extinction during antagonistic coevolution. *Evolution; International Journal of Organic Evolution*, **2016**, 70, 235-40	3.8	13

56	The interplay between microevolution and community structure in microbial populations. *Current Opinion in Biotechnology*, **2013**, 24, 821-5	11.4	13
55	The sociality of bioremediation: Hijacking the social lives of microbial populations to clean up heavy metal contamination. *EMBO Reports*, **2015**, 16, 1241-5	6.5	13
54	The evolution of bacterial mutation rates under simultaneous selection by interspecific and social parasitism. *Proceedings of the Royal Society B: Biological Sciences*, **2013**, 280, 20131913	4.4	13
53	Clonal distribution and phase-variable expression of a major histocompatibility complex analogue protein in Staphylococcus aureus. *Journal of Bacteriology*, **2005**, 187, 2917-9	3.5	13
52	The evolution of antibiotic resistance: insight into the roles of molecular mechanisms of resistance and treatment context. *Discovery Medicine*, **2010**, 10, 112-8	2.5	13
51	An experimental study of strong reciprocity in bacteria. *Biology Letters*, **2014**, 10, 20131069	3.6	12
50	Fast-killing parasites can be favoured in spatially structured populations. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2017**, 372,	5.8	11
49	Effects of epistasis on infectivity range during host-parasite coevolution. *Evolution; International Journal of Organic Evolution*, **2014**, 68, 2972-82	3.8	11
48	Experimental (co)evolution in a multi-species microbial community results in local maladaptation. *Ecology Letters*, **2020**, 23, 1673-1681	10	11
47	Disentangling the mechanisms underpinning disturbance-mediated invasion. *Proceedings of the Royal Society B: Biological Sciences*, **2020**, 287, 20192415	4.4	10
46	Mechanisms and consequences of diversity-generating immune strategies. *Nature Reviews Immunology*, **2017**, 17, 719-728	36.5	10
45	The effect of Quorum sensing inhibitors on the evolution of CRISPR-based phage immunity in Pseudomonas aeruginosa. *ISME Journal*, **2021**, 15, 2465-2473	11.9	10
44	No effect of intraspecific relatedness on public goods cooperation in a complex community. *Evolution; International Journal of Organic Evolution*, **2018**, 72, 1165-1173	3.8	9
43	Sexual Selection in Bacteria?. *Trends in Microbiology*, **2019**, 27, 972-981	12.4	8
42	Resource-dependent antagonistic coevolution leads to a new paradox of enrichment. *Ecology*, **2016** , 97, 1319-28	4.6	8
41	Increased copy number couples the evolution of plasmid horizontal transmission and plasmid-encoded antibiotic resistance. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	8
40	Migration highways and migration barriers created by host-parasite interactions. *Ecology Letters*, **2016**, 19, 1479-1485	10	7
39	The effect of cheats on siderophore diversity in Pseudomonas aeruginosa. *Journal of Evolutionary Biology*, **2018**, 31, 1330-1339	2.3	7

38	Specific adaptation to strong competitors can offset the negative effects of population size reductions. *Proceedings of the Royal Society B: Biological Sciences*, **2018**, 285,	4.4	6
37	Anthropogenic remediation of heavy metals selects against natural microbial remediation. *Proceedings of the Royal Society B: Biological Sciences*, **2019**, 286, 20190804	4.4	6
36	The role of 'soaking' in spiteful toxin production in Pseudomonas aeruginosa. *Biology Letters*, **2013**, 9, 20120569	3.6	6
35	Wider access to genotypic space facilitates loss of cooperation in a bacterial mutator. *PLoS ONE*, **2011**, 6, e17254	3.7	6
34	Overcoming the growth-infectivity trade-off in a bacteriophage slows bacterial resistance evolution. *Evolutionary Applications*, **2021**, 14, 2055-2063	4.8	6
33	Addiction systems antagonize bacterial adaptive immunity. *FEMS Microbiology Letters*, **2019**, 366,	2.9	5
32	Warmer temperatures enhance beneficial mutation effects. *Journal of Evolutionary Biology*, **2020**, 33, 1020	2.3	5
31	A shared coevolutionary history does not alter the outcome of coalescence in experimental populations of Pseudomonas fluorescens. *Journal of Evolutionary Biology*, **2019**, 32, 58-65	2.3	5
30	How disturbance history alters invasion success: biotic legacies and regime change. *Ecology Letters*, **2021**, 24, 687-697	10	5
29	Temperature drives diversification in a model adaptive radiation. *Proceedings of the Royal Society B: Biological Sciences*, **2018**, 285,	4.4	5
28	Targeting antibiotic resistant bacteria with phage reduces bacterial density in an insect host. *Biology Letters*, **2019**, 15, 20180895	3.6	4
27	Epidemiology. Keep it local. *Science*, **2007**, 315, 1227-8	33.3	4
26	Increased copy number couples the evolution of plasmid horizontal transmission and antibiotic resistance		4
25	Compost spatial heterogeneity promotes evolutionary diversification of a bacterium. *Journal of Evolutionary Biology*, **2021**, 34, 246-255	2.3	4
24	Resource heterogeneity and the evolution of public goods cooperation. *Evolution Letters*, **2020**, 4, 155-163	5.3	3
23	Within-host interference competition can prevent invasion of rare parasites. *Parasitology*, **2018**, 145, 770-774	2.7	3
22	Multidrug therapy and evolution of antibiotic resistance: when order matters. *Applied and Environmental Microbiology*, **2013**, 79, 6521	4.8	3
21	Parasite genetic distance and local adaptation in co-evolving bacteria-bacteriophage populations. *Molecular Ecology*, **2017**, 26, 1747-1755	5.7	3

20	Determining the prevalence, identity and possible origin of bacterial pathogens in soil. *Environmental Microbiology*, **2020**, 22, 5327-5340	5.2	3
19	Evolution of diversity explains the impact of pre-adaptation of a focal species on the structure of a natural microbial community. *ISME Journal*, **2020**, 14, 2877-2889	11.9	3
18	Stress causes interspecific facilitation within a compost community. *Ecology Letters*, **2021**, 24, 2169-2177	10	3
17	Antimicrobial resistance acquisition via natural transformation: context is everything. *Current Opinion in Microbiology*, **2021**, 64, 133-138	7.9	2
16	Anti-CRISPR phages cooperate to overcome CRISPR-Cas immunity		2
15	Selection for antibiotic resistance is reduced when embedded in a natural microbial community		2
14	The impact of propagule pressure on whole community invasions in biomethane-producing communities. *IScience*, **2021**, 24, 102659	6.1	2
13	Parallel evolution of Pseudomonas aeruginosa phage resistance and virulence loss in response to phage treatment and .. *ELife*, **2022**, 11,	8.9	2
12	Mitigation of evolved bacterial resistance to phage therapy.. *Current Opinion in Virology*, **2022**, 53, 101204	7.5	2
11	Disturbance-mediated invasions are dependent on community resource abundance.. *Ecology*, **2022**, e3728	6	2
10	Microbial Community Composition of Mine Wastes in Cornwall and West Devon (UK). *Solid State Phenomena*, **2017**, 262, 290-293	0.4	1
9	Short-term evolution under copper stress increases probability of plasmid uptake		1
8	Transient CRISPR immunity leads to coexistence with phages		1
7	Ecological selection of siderophore-producing microbial taxa in response to heavy metal contamination		1
6	Rapid decline of adaptation of to soil biotic environment.. *Biology Letters*, **2022**, 18, 20210593	3.6	1
5	Greater Phage Genotypic Diversity Constrains Arms-Race Coevolution.. *Frontiers in Cellular and Infection Microbiology*, **2022**, 12, 834406	5.9	1
4	No effect of natural transformation on the evolution of resistance to bacteriophages in the Acinetobacter baylyi model system. *Scientific Reports*, **2016**, 6, 37144	4.9	0
3	Interspecific Niche Competition Increases Morphological Diversity in Multi-Species Microbial Communities. *Frontiers in Microbiology*, **2021**, 12, 699190	5.7	0

2	Duration and timing interactions of early-life stress and the potential for recovery. *Ecosphere*, **2021**, 12, e03620	3.1	0
1	The use of model Pseudomonas fluorescens populations to study the causes and consequences of microbial diversity **2005**, 83-99		