Britt Koskella

List of Publications by Year
in descending order

94 papers	7,480 citations	101543 36 h-index	85541 71 g-index
106 all docs	106 docs citations	106 times ranked	9545 citing authors

#	Article	IF	Citations
1	Scientistsâ€™ warning to humanity: microorganisms and climate change. Nature Reviews Microbiology, 2019, 17, 569-586.	28.6	1,138
2	Bacteriaâ€"phage coevolution as a driver of ecological and evolutionary processes in microbial communities. FEMS Microbiology Reviews, 2014, 38, 916-931.	8.6	614
3	Phage therapy: An alternative to antibiotics in the age of multi-drug resistance. World Journal of Gastrointestinal Pharmacology and Therapeutics, 2017, 8, 162.	1.1	612
4	Mutation Pressure and the Evolution of Organelle Genomic Architecture. Science, 2006, 311, 1727-1730.	12.6	490
5	A synthesis of experimental work on parasite local adaptation. Ecology Letters, 2007, 10, 418-434.	6.4	344
6	Understanding Bacteriophage Specificity in Natural Microbial Communities. Viruses, 2013, 5, 806-823.	3.3	291
7	The microbiome beyond the horizon of ecological and evolutionary theory. Nature Ecology and Evolution, 2017, 1, 1606-1615.	7.8	216
8	The Pathobiome in Animal and Plant Diseases. Trends in Ecology and Evolution, 2019, 34, 996-1008.	8.7	208
9	Nutrient- and Dose-Dependent Microbiome-Mediated Protection against a Plant Pathogen. Current Biology, 2018, 28, 2487-2492.e3.	3.9	185
10	Experimental coevolution of species interactions. Trends in Ecology and Evolution, 2013, 28, 367-375.	8.7	180
11	Priority effects in microbiome assembly. Nature Reviews Microbiology, 2022, 20, 109-121.	28.6	180
12	Heavy metal pollution and co-selection for antibiotic resistance: A microbial palaeontology approach. Environment International, 2019, 132, 105117.	10.0	167
13	Understanding the ecology and evolution of hostâ€"parasite interactions across scales. Evolutionary Applications, 2016, 9, 37-52.	3.1	146
14	Successive passaging of a plant-associated microbiome reveals robust habitat and host genotype-dependent selection. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1148-1159.	7.1	146
15	Thirteen challenges in modelling plant diseases. Epidemics, 2015, 10, 6-10.	3.0	145
16	EVIDENCE FOR NEGATIVE FREQUENCY-DEPENDENT SELECTION DURING EXPERIMENTAL COEVOLUTION OF A FRESHWATER SNAIL AND A STERILIZING TREMATODE. Evolution; International Journal of Organic Evolution, 2009, 63, 2213-2221.	2.3	142
17	Bacteriaâ€"Phage Interactions in Natural Environments. Advances in Applied Microbiology, 2014, 89, 135-183.	2.4	138
18	THE ORIGIN OF SPECIFICITY BY MEANS OF NATURAL SELECTION: EVOLVED AND NONHOST RESISTANCE IN HOST-PATHOGEN INTERACTIONS. Evolution; International Journal of Organic Evolution, 2013, 67, 1-9.	2.3	114

#	Article	IF	Citations
19	The costs of evolving resistance in heterogeneous parasite environments. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 1896-1903.	2.6	106
20	Local Biotic Environment Shapes the Spatial Scale of Bacteriophage Adaptation to Bacteria. American Naturalist, 2011, 177, 440-451.	2.1	99
21	Exploring the risks of phage application in the environment. Frontiers in Microbiology, 2013, 4, 358.	3.5	97
22	High-throughput mapping of the phage resistance landscape in E. coli. PLoS Biology, 2020, 18, e3000877.	5.6	91
23	Phage-Mediated Selection on Microbiota of a Long-Lived Host. Current Biology, 2013, 23, 1256-1260.	3.9	89
24	The impact of bacteriophages on phyllosphere bacterial abundance and composition. Molecular Ecology, 2018, 27, 2025-2038.	3.9	82
25	Interesting Open Questions in Disease Ecology and Evolution. American Naturalist, 2014, 184, S1-S8.	2.1	74
26	The study of hostâ€"microbiome (co)evolution across levels of selection. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190604.	4.0	69
27	The phyllosphere. Current Biology, 2020, 30, R1143-R1146.	3.9	64
28	Shared Forces of Sex Chromosome Evolution in Haploid-Mating and Diploid-Mating OrganismsSequence data from this article have been deposited with the EMBL/GenBank Data Libraries under the accession nos. BZ81929 and BZ782612.. Genetics, 2004, 168, 141-146.	2.9	63
29	ADVICE OF THE ROSE: EXPERIMENTAL COEVOLUTION OF A TREMATODE PARASITE AND ITS SNAIL HOST. Evolution; International Journal of Organic Evolution, 2007, 61, 152-159.	2.3	62
30	A signature of tree health? Shifts in the microbiome and the ecological drivers of horse chestnut bleeding canker disease. New Phytologist, 2017, 215, 737-746.	7.3	61
31	The cost of phage resistance in a plant pathogenic bacterium is contextâ€dependent. Evolution; International Journal of Organic Evolution, 2015, 69, 1321-1328.	2.3	58
32	Bacteria-Phage Interactions across Time and Space: Merging Local Adaptation and Time-Shift Experiments to Understand Phage Evolution. American Naturalist, 2014, 184, S9-S21.	2.1	56
33	Biofilm Structure Promotes Coexistence of Phage-Resistant and Phage-Susceptible Bacteria. MSystems, 2020, 5, .	3.8	52
34	Phage resistance evolution <i>in vitro</i> is not reflective of <i>in vivo</i> outcome in a plantâ€bacteriaâ€phage system*. Evolution; International Journal of Organic Evolution, 2019, 73, 2461-2475.	2.3	51
35	Multifaceted Impacts of Bacteriophages in the Plant Microbiome. Annual Review of Phytopathology, 2018, 56, 361-380.	7.8	48
36	Adaptation in Natural Microbial Populations. Annual Review of Ecology, Evolution, and Systematics, 2015, 46, 503-522.	8.3	47

#	Article	IF	Citations
37	Pathogen Relatedness Affects the Prevalence of Withinâ€Host Competition. American Naturalist, 2006, 168, 121-126.	2.1	46
38	Plant neighborhood shapes diversity and reduces interspecific variation of the phyllosphere microbiome. ISME Journal, 2022, 16, 1376-1387.	9.8	43
39	The evolution of bacterial resistance against bacteriophages in the horse chestnut phyllosphere is general across both space and time. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140297.	4.0	42
40	Transplanting Fecal Virus-Like Particles Reduces High-Fat Diet-Induced Small Intestinal Bacterial Overgrowth in Mice. Frontiers in Cellular and Infection Microbiology, 2019, 9, 348.	3.9	40
41	Assessing Illumina technology for the high-throughput sequencing of bacteriophage genomes. PeerJ, 2016, 4, e2055.	2.0	38
42	Tomato Seed-Associated Bacteria Confer Protection of Seedlings Against Foliar Disease Caused by <i>Pseudomonas syringae</i>. Phytobiomes Journal, 2019, 3, 177-190.	2.7	36
43	Friend and foe: factors influencing the movement of the bacterium <i>Helicobacter pylori</i> along the parasitismâ€"mutualism continuum. Evolutionary Applications, 2015, 8, 9-22.	3.1	33
44	The effects of host age and spatial location on bacterial community composition in the English Oak tree (<i>Quercus robur</i>). Environmental Microbiology Reports, 2016, 8, 649-658.	2.4	33
45	Resistance gained, resistance lost: An explanation for hostâ€"parasite coexistence. PLoS Biology, 2018, 16, e3000013.	5.6	30
46	Understanding the Impacts of Bacteriophage Viruses: From Laboratory Evolution to Natural Ecosystems. Annual Review of Virology, 2022, 9, 57-78.	6.7	30
47	Rapid quantification of bacteriophages and their bacterial hosts in vitro and in vivo using droplet digital PCR. Journal of Virological Methods, 2018, 259, 18-24.	2.1	27
48	Hybrid Fitness in a Locally Adapted Parasite. American Naturalist, 2008, 172, 772-782.	2.1	25
49	Hostâ€"parasite fluctuating selection in the absence of specificity. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20171615.	2.6	25
50	Protective microbiomes can limit the evolution of host pathogen defense. Evolution Letters, 2019, 3, 534-543.	3.3	25
51	Using experimental evolution to explore natural patterns between bacterial motility and resistance to bacteriophages. ISME Journal, 2011, 5, 1809-1817.	9.8	24
52	Introduction: microbial local adaptation: insights from natural populations, genomics and experimental evolution. Molecular Ecology, 2017, 26, 1703-1710.	3.9	24
53	Why Evolve Reliance on the Microbiome for Timing of Ontogeny?. MBio, 2019, 10, .	4.1	22
54	Sex and the Red Queen. , 2009, , 133-159.		22

#	Article	IF	Citations
55	Application of ecological and evolutionary theory to microbiome community dynamics across systems. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20202886.	2.6	19
56	Water stress and disruption of mycorrhizas induce parallel shifts in phyllosphere microbiome composition. New Phytologist, 2022, 234, 2018-2031.	7.3	19
57	Adaptation of the pathogen, <i>Pseudomonas syringae</i>, during experimental evolution on a native vs. alternative host plant. Molecular Ecology, 2017, 26, 1790-1801.	3.9	14
58	Multiyear Time-Shift Study of Bacteria and Phage Dynamics in the Phyllosphere. American Naturalist, 2022, 199, 126-140.	2.1	13
59	Microbiome: Insect Herbivory Drives Plant Phyllosphere Dysbiosis. Current Biology, 2020, 30, R412-R414.	3.9	12
60	Bacteria-Phage Antagonistic Coevolution and the Implications for Phage Therapy. , 2017, , 1-21.		12
61	Polyploidy and microbiome associations mediate similar responses to pathogens in Arabidopsis. Current Biology, 2022, 32, 2719-2729.e5.	3.9	12
62	Coevolution of Host and Pathogen. , 2017, , 115-140.		10
63	The Value of a Comparative Approach to Understand the Complex Interplay between Microbiota and Host Immunity. Frontiers in Immunology, 2017, 8, 1114.	4.8	8
64	New approaches to characterizing bacteriaâ€"phage interactions in microbial communities and microbiomes. Environmental Microbiology Reports, 2019, 11, 15-16.	2.4	8
65	Pathogen Relatedness Affects the Prevalence of within-Host Competition. American Naturalist, 2006, 168, 121.	2.1	7
66	Coevolution of Host and Pathogen. , 2011, , 147-171.		4
67	Evolutionary applications research highlight for issue 1. Evolutionary Applications, 2015, 8, 1-1.	3.1	4
68	Bacteriophage-Mediated Reduction of Bacterial Speck on Tomato Seedlings. Phage, 2020, 1, 205-212.	1.7	4
69	Temporally Selective Modification of the Tomato Rhizosphere and Root Microbiome by Volcanic Ash Fertilizer Containing Micronutrients. Applied and Environmental Microbiology, 2022, 88, e0004922.	3.1	4
70	Bacteria-Phage Antagonistic Coevolution and the Implications for Phage Therapy. , 2021, , 231-251.		3
71	The Potential Role of Bacteriophages in Shaping Plant-Bacterial Interactions. , 2015, , 199-220.		2
72	Research highlights for issue 6: the <scp>CRISPR</scp>/Cas revolution. Evolutionary Applications, 2015, 8, 525-526.	3.1	1

#	Article	IF	Citations
73	Research highlights for issue 7: the evolution of invasiveness. Evolutionary Applications, 2015, 8, 633-634.	3.1	1
74	Understanding adaptation and diversification: Insights from the study of microbial experimental evolution. Evolution; International Journal of Organic Evolution, 2015, 69, 279-280.	2.3	1
75	Perturbation of Gut Microbiome Leads to Fluctuations in Phage Population Density. Gastroenterology, 2017, 152, S819-S820.	1.3	1
76	The effects of host age and spatial location on bacterial community composition in the English Oak tree (<i>Quercus robur</i>). Environmental Microbiology Reports, 2016, , .	2.4	1
77	Research highlights for issue 3. Evolutionary Applications, 2014, 7, 337-338.	3.1	0
78	Research highlights for issue 5: the role of the microbiome in shaping evolution. Evolutionary Applications, 2014, 7, 519-520.	3.1	0
79	Research highlights for issue 6: the applicability of model system research. Evolutionary Applications, 2014, 7, 607-608.	3.1	0
80	Research highlight for issue 8: disease evolution and ecology across space. Evolutionary Applications, 2014, 7, 869-870.	3.1	0
81	Evolutionary Applications research highlights for issue 10: the everâ€evolving field of agriculture. Evolutionary Applications, 2014, 7, 1159-1160.	3.1	0
82	Research highlights for issue 4: Predicting the evolutionary response of populations to climate change. Evolutionary Applications, 2014, 7, 431-432.	3.1	0
83	Research highlights for issue 2: recent applications in molecular evolution. Evolutionary Applications, 2015, 8, 119-120.	3.1	0
84	Research highlights for issue 10: understanding complex lifecycles. Evolutionary Applications, 2015, 8, 917-918.	3.1	0
85	Research highlights for issue 4: applied evolution in fisheries science. Evolutionary Applications, 2015, 8, 305-306.	3.1	0
86	Research highlights for issue 5: disease spillover among natural and managed populations. Evolutionary Applications, 2015, 8, 411-412.	3.1	0
87	Coevolution, Bacterial-Phage. , 2016, , 305-313.		0
88	Britt Koskella. Current Biology, 2017, 27, R1252-R1254.	3.9	0
89	High-throughput mapping of the phage resistance landscape in E. coli. , 2020, 18, e3000877.		0
90	High-throughput mapping of the phage resistance landscape in E. coli. , 2020, 18, e3000877.		0

#	Article	IF	Citations
91	High-throughput mapping of the phage resistance landscape in E. coli. , 2020, 18, e3000877.		0
92	High-throughput mapping of the phage resistance landscape in E. coli. , 2020, 18, e3000877.		0
93	High-throughput mapping of the phage resistance landscape in E. coli. , 2020, 18, e3000877.		0
94	High-throughput mapping of the phage resistance landscape in E. coli. , 2020, 18, e3000877.		0