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	Priority effects in microbiome assembly. Nature Reviews Microbiology, 2022, 20, 109-121.	28.6	180
2	Multiyear Time-Shift Study of Bacteria and Phage Dynamics in the Phyllosphere. American Naturalist, 2022, 199, 126-140.	2.1	13
3	Water stress and disruption of mycorrhizas induce parallel shifts in phyllosphere microbiome composition. New Phytologist, 2022, 234, 2018-2031.	7.3	19
4	Plant neighborhood shapes diversity and reduces interspecific variation of the phyllosphere microbiome. ISME Journal, 2022, 16, 1376-1387.	9.8	43
5	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
6	Understanding the Impacts of Bacteriophage Viruses: From Laboratory Evolution to Natural Ecosystems. Annual Review of Virology, 2022, 9, 57-78.	6.7	30
7	Polyploidy and microbiome associations mediate similar responses to pathogens in Arabidopsis. Current Biology, 2022, 32, 2719-2729.e5.	3.9	12
8	Bacteria-Phage Antagonistic Coevolution and the Implications for Phage Therapy. , 2021, , 231-251.		3
9	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
10	The phyllosphere. Current Biology, 2020, 30, R1143-R1146.	3.9	64
11	High-throughput mapping of the phage resistance landscape in E. coli. PLoS Biology, 2020, 18, e3000877.	5.6	91
12	Biofilm Structure Promotes Coexistence of Phage-Resistant and Phage-Susceptible Bacteria. MSystems, 2020, 5, .	3.8	52
13	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
14	Microbiome: Insect Herbivory Drives Plant Phyllosphere Dysbiosis. Current Biology, 2020, 30, R412-R414.	3.9	12
15	Bacteriophage-Mediated Reduction of Bacterial Speck on Tomato Seedlings. Phage, 2020, 1, 205-212.	1.7	4
16	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
17	High-throughput mapping of the phage resistance landscape in E. coli. , 2020, 18, e3000877.		0
18	High-throughput mapping of the phage resistance landscape in E. coli. , 2020, 18, e3000877.		0

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19	High-throughput mapping of the phage resistance landscape in E. coli. , 2020, 18, e3000877.		0
20	High-throughput mapping of the phage resistance landscape in E. coli. , 2020, 18, e3000877.		0
21	High-throughput mapping of the phage resistance landscape in E. coli. , 2020, 18, e3000877.		0
22	High-throughput mapping of the phage resistance landscape in E. coli. , 2020, 18, e3000877.		0
23	Protective microbiomes can limit the evolution of host pathogen defense. Evolution Letters, 2019, 3, 534-543.	3.3	25
24	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
25	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
26	Heavy metal pollution and co-selection for antibiotic resistance: A microbial palaeontology approach. Environment International, 2019, 132, 105117.	10.0	167
27	The Pathobiome in Animal and Plant Diseases. Trends in Ecology and Evolution, 2019, 34, 996-1008.	8.7	208
28	Scientistsâ€™ warning to humanity: microorganisms and climate change. Nature Reviews Microbiology, 2019, 17, 569-586.	28.6	1,138
29	Why Evolve Reliance on the Microbiome for Timing of Ontogeny?. MBio, 2019, 10, .	4.1	22
30	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
31	New approaches to characterizing bacteriaâ€“phage interactions in microbial communities and microbiomes. Environmental Microbiology Reports, 2019, 11, 15-16.	2.4	8
32	The impact of bacteriophages on phyllosphere bacterial abundance and composition. Molecular Ecology, 2018, 27, 2025-2038.	3.9	82
33	Resistance gained, resistance lost: An explanation for hostâ€“parasite coexistence. PLoS Biology, 2018, 16, e3000013.	5.6	30
34	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
35	Multifaceted Impacts of Bacteriophages in the Plant Microbiome. Annual Review of Phytopathology, 2018, 56, 361-380.	7.8	48
36	Nutrient- and Dose-Dependent Microbiome-Mediated Protection against a Plant Pathogen. Current Biology, 2018, 28, 2487-2492.e3.	3.9	185

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37	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
38	Introduction: microbial local adaptation: insights from natural populations, genomics and experimental evolution. Molecular Ecology, 2017, 26, 1703-1710.	3.9	24
39	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
40	Perturbation of Gut Microbiome Leads to Fluctuations in Phage Population Density. Gastroenterology, 2017, 152, S819-S820.	1.3	1
41	Hostâ€“parasite fluctuating selection in the absence of specificity. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20171615.	2.6	25
42	The microbiome beyond the horizon of ecological and evolutionary theory. Nature Ecology and Evolution, 2017, 1, 1606-1615.	7.8	216
43	Britt Koskella. Current Biology, 2017, 27, R1252-R1254.	3.9	0
44	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
45	Coevolution of Host and Pathogen. , 2017, , 115-140.		10
46	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
47	Bacteria-Phage Antagonistic Coevolution and the Implications for Phage Therapy. , 2017, , 1-21.		12
48	Understanding the ecology and evolution of hostâ€“parasite interactions across scales. Evolutionary Applications, 2016, 9, 37-52.	3.1	146
49	Coevolution, Bacterial-Phage. , 2016, , 305-313.		0
50	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
51	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
52	Assessing Illumina technology for the high-throughput sequencing of bacteriophage genomes. PeerJ, 2016, 4, e2055.	2.0	38
53	Research highlights for issue 2: recent applications in molecular evolution. Evolutionary Applications, 2015, 8, 119-120.	3.1	0
54	Research highlights for issue 6: the <scp>CRISPR</scp>/Cas revolution. Evolutionary Applications, 2015, 8, 525-526.	3.1	1

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55	Research highlights for issue 7: the evolution of invasiveness. Evolutionary Applications, 2015, 8, 633-634.	3.1	1
56	Research highlights for issue 10: understanding complex lifecycles. Evolutionary Applications, 2015, 8, 917-918.	3.1	0
57	Research highlights for issue 4: applied evolution in fisheries science. Evolutionary Applications, 2015, 8, 305-306.	3.1	0
58	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
59	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
60	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
61	Thirteen challenges in modelling plant diseases. Epidemics, 2015, 10, 6-10.	3.0	145
62	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
63	Adaptation in Natural Microbial Populations. Annual Review of Ecology, Evolution, and Systematics, 2015, 46, 503-522.	8.3	47
64	Evolutionary applications research highlight for issue 1. Evolutionary Applications, 2015, 8, 1-1.	3.1	4
65	Research highlights for issue 5: disease spillover among natural and managed populations. Evolutionary Applications, 2015, 8, 411-412.	3.1	0
66	The Potential Role of Bacteriophages in Shaping Plant-Bacterial Interactions. , 2015, , 199-220.		2
67	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
68	Interesting Open Questions in Disease Ecology and Evolution. American Naturalist, 2014, 184, S1-S8.	2.1	74
69	Research highlights for issue 3. Evolutionary Applications, 2014, 7, 337-338.	3.1	0
70	Research highlights for issue 5: the role of the microbiome in shaping evolution. Evolutionary Applications, 2014, 7, 519-520.	3.1	0
71	Research highlights for issue 6: the applicability of model system research. Evolutionary Applications, 2014, 7, 607-608.	3.1	0
72	Research highlight for issue 8: disease evolution and ecology across space. Evolutionary Applications, 2014, 7, 869-870.	3.1	0

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73	Evolutionary Applications research highlights for issue 10: the everâ€evolving field of agriculture. Evolutionary Applications, 2014, 7, 1159-1160.	3.1	0
74	Bacteriaâ€"phage coevolution as a driver of ecological and evolutionary processes in microbial communities. FEMS Microbiology Reviews, 2014, 38, 916-931.	8.6	614
75	Research highlights for issue 4: Predicting the evolutionary response of populations to climate change. Evolutionary Applications, 2014, 7, 431-432.	3.1	0
76	Bacteriaâ€"Phage Interactions in Natural Environments. Advances in Applied Microbiology, 2014, 89, 135-183.	2.4	138
77	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
78	Understanding Bacteriophage Specificity in Natural Microbial Communities. Viruses, 2013, 5, 806-823.	3.3	291
79	Experimental coevolution of species interactions. Trends in Ecology and Evolution, 2013, 28, 367-375.	8.7	180
80	Phage-Mediated Selection on Microbiota of a Long-Lived Host. Current Biology, 2013, 23, 1256-1260.	3.9	89
81	Exploring the risks of phage application in the environment. Frontiers in Microbiology, 2013, 4, 358.	3.5	97
82	The costs of evolving resistance in heterogeneous parasite environments. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 1896-1903.	2.6	106
83	Coevolution of Host and Pathogen. , 2011, , 147-171.		4
84	Local Biotic Environment Shapes the Spatial Scale of Bacteriophage Adaptation to Bacteria. American Naturalist, 2011, 177, 440-451.	2.1	99
85	Using experimental evolution to explore natural patterns between bacterial motility and resistance to bacteriophages. ISME Journal, 2011, 5, 1809-1817.	9.8	24
86	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
87	Sex and the Red Queen. , 2009, , 133-159.		22
88	Hybrid Fitness in a Locally Adapted Parasite. American Naturalist, 2008, 172, 772-782.	2.1	25
89	A synthesis of experimental work on parasite local adaptation. Ecology Letters, 2007, 10, 418-434.	6.4	344
90	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

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91	Pathogen Relatedness Affects the Prevalence of Withinâ€Host Competition. American Naturalist, 2006, 168, 121-126.	2.1	46
92	Mutation Pressure and the Evolution of Organelle Genomic Architecture. Science, 2006, 311, 1727-1730.	12.6	490
93	Pathogen Relatedness Affects the Prevalence of within-Host Competition. American Naturalist, 2006, 168, 121.	2.1	7
94	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