

Kirill S Korolev

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

2,548
citations

361413

20
h-index

414414

32
g-index

46
all docs

46
docs citations

46
times ranked

3306
citing authors

#	ARTICLE	IF	CITATIONS
1	Slow expanders invade by forming dented fronts in microbial colonies. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	14
2	Bacterial dysbiosis predicts the diagnosis of Crohn's disease in Saudi children. Saudi Journal of Gastroenterology, 2021, 27, 144.	1.1	1
3	Genealogical structure changes as range expansions transition from pushed to pulled. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	10
4	Traveling fronts in self-replicating persistent random walks with multiple internal states. New Journal of Physics, 2020, 22, 083034.	2.9	2
5	Pinned, locked, pushed, and pulled traveling waves in structured environments. Theoretical Population Biology, 2019, 127, 102-119.	1.1	15
6	Genetic drift in range expansions is very sensitive to density dependence in dispersal and growth. Ecology Letters, 2019, 22, 1817-1827.	6.4	35
7	Evolution at the Edge of Expanding Populations. American Naturalist, 2019, 194, 291-305.	2.1	40
8	Available energy fluxes drive a transition in the diversity, stability, and functional structure of microbial communities. PLoS Computational Biology, 2019, 15, e1006793.	3.2	101
9	Cooperation mitigates diversity loss in a spatially expanding microbial population. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23582-23587.	7.1	24
10	Fluctuations uncover a distinct class of traveling waves. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E3645-E3654.	7.1	73
11	Chirality provides a direct fitness advantage and facilitates intermixing in cellular aggregates. PLoS Computational Biology, 2018, 14, e1006645.	3.2	11
12	Interactions between species introduce spurious associations in microbiome studies. PLoS Computational Biology, 2018, 14, e1005939.	3.2	28
13	Fungal dysbiosis predicts the diagnosis of pediatric Crohn's disease. World Journal of Gastroenterology, 2018, 24, 4510-4516.	3.3	16
14	Fungal Microbiota Profile in Newly Diagnosed Treatment-naïve Children with Crohn's Disease. Journal of Crohn's and Colitis, 2017, 11, 586-592.	1.3	38
15	Chirality in microbial biofilms is mediated by close interactions between the cell surface and the substratum. ISME Journal, 2017, 11, 1688-1701.	9.8	25
16	Genetic load makes cancer cells more sensitive to common drugs: evidence from Cancer Cell Line Encyclopedia. Scientific Reports, 2017, 7, 1938.	3.3	9
17	Range expansions transition from pulled to pushed waves as growth becomes more cooperative in an experimental microbial population. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6922-6927.	7.1	82
18	Detecting Microbial Dysbiosis Associated with Pediatric Crohn Disease Despite the High Variability of the Gut Microbiota. Cell Reports, 2016, 14, 945-955.	6.4	49

#	ARTICLE	IF	CITATIONS
19	Physical basis of large microtubule aster growth. <i>ELife</i> , 2016, 5, .	6.0	58
20	Evolution Arrests Invasions of Cooperative Populations. <i>Physical Review Letters</i> , 2015, 115, 208104.	7.8	23
21	Relation between stability and resilience determines the performance of early warning signals under different environmental drivers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10056-10061.	7.1	60
22	Public Good Diffusion Limits Microbial Mutualism. <i>Physical Review Letters</i> , 2015, 114, 168102.	7.8	32
23	Turning ecology and evolution against cancer. <i>Nature Reviews Cancer</i> , 2014, 14, 371-380.	28.4	245
24	Tug-of-war between driver and passenger mutations in cancer and other adaptive processes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15138-15143.	7.1	138
25	Genetic Drift Suppresses Bacterial Conjugation in Spatially Structured Populations. <i>Biophysical Journal</i> , 2014, 106, 944-954.	0.5	31
26	Impact of deleterious passenger mutations on cancer progression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2910-2915.	7.1	274
27	Slower recovery in space before collapse of connected populations. <i>Nature</i> , 2013, 496, 355-358.	27.8	158
28	The Fate of Cooperation during Range Expansions. <i>PLoS Computational Biology</i> , 2013, 9, e1002994.	3.2	40
29	Range expansion promotes cooperation in an experimental microbial metapopulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7354-7359.	7.1	92
30	Radial Domany-Kinzel models with mutation and selection. <i>Physical Review E</i> , 2013, 87, 012103.	2.1	42
31	Selective sweeps in growing microbial colonies. <i>Physical Biology</i> , 2012, 9, 026008.	1.8	150
32	Generic Indicators for Loss of Resilience Before a Tipping Point Leading to Population Collapse. <i>Science</i> , 2012, 336, 1175-1177.	12.6	524
33	A Quantitative Test of Population Genetics Using Spatiogenetic Patterns in Bacterial Colonies. <i>American Naturalist</i> , 2011, 178, 538-552.	2.1	94