Lutz Becks

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4256132/publications.pdf

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		331670	289244
41	1,839	21	40
papers	citations	h-index	g-index

47	47	47	2085
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reduction of adaptive genetic diversity radically alters ecoâ€evolutionary community dynamics. Ecology Letters, 2010, 13, 989-997.	6.4	218
2	Experimental demonstration of chaos in a microbial food web. Nature, 2005, 435, 1226-1229.	27.8	208
3	The functional genomics of an ecoâ€evolutionary feedback loop: linking gene expression, trait evolution, and community dynamics. Ecology Letters, 2012, 15, 492-501.	6.4	159
4	The Evolution of Sex Is Favoured During Adaptation to New Environments. PLoS Biology, 2012, 10, e1001317.	5.6	135
5	Higher rates of sex evolve in spatially heterogeneous environments. Nature, 2010, 468, 89-92.	27.8	118
6	Rapid contemporary evolution and clonal food web dynamics. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 1579-1591.	4.0	99
7	Ecoâ€evolutionary dynamics in a coevolving hostâ€“virus system. Ecology Letters, 2016, 19, 450-459.	6.4	94
8	Consumer co-evolution as an important component of the eco-evolutionary feedback. Nature Communications, 2014, 5, 5226.	12.8	84
9	Why rapid, adaptive evolution matters for community dynamics. Frontiers in Ecology and Evolution, 2014, 2, .	2.2	59
10	Rapid prey evolution and the dynamics of two-predator food webs. Theoretical Ecology, 2011, 4, 133-152.	1.0	56
11	Sublethal streptomycin concentrations and lytic bacteriophage together promote resistance evolution. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160040.	4.0	39
12	Dual-stressor selection alters eco-evolutionary dynamics in experimental communities. Nature Ecology and Evolution, 2018, 2, 1974-1981.	7.8	38
13	Traitâ€“fitness relationships determine how tradeâ€off shapes affect species coexistence. Ecology, 2017, 98, 3188-3198.	3.2	37
14	Environmental fluctuations restrict eco-evolutionary dynamics in predatorâ€“prey system. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20150013.	2.6	36
15	Dynamical trade-offs arise from antagonistic coevolution and decrease intraspecific diversity. Nature Communications, 2017, 8, 2059.	12.8	30
16	Eco-evolutionary feedback promotes Red Queen dynamics and selects for sex in predator populations. Evolution; International Journal of Organic Evolution, 2016, 70, 641-652.	2.3	29
17	Population size changes and selection drive patterns of parallel evolution in a hostâ€“virus system. Nature Communications, 2018, 9, 1706.	12.8	29
18	Rapid evolution of hosts begets species diversity at the cost of intraspecific diversity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11193-11198.	7.1	26

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19	Evolutionary dynamics of transposable elements in bdelloid rotifers. ELife, 2021, 10, .	6.0	26
20	Different types of synchrony in chaotic and cyclic communities. Nature Communications, 2013, 4, 1359.	12.8	25
21	Evolutionary contribution to coexistence of competitors in microbial food webs. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170415.	2.6	23
22	Genomics of host-pathogen interactions: challenges and opportunities across ecological and spatiotemporal scales. PeerJ, 2019, 7, e8013.	2.0	23
23	TRANSITIONS FROM STABLE EQUILIBRIA TO CHAOS, AND BACK, IN AN EXPERIMENTAL FOOD WEB. Ecology, 2008, 89, 3222-3226.	3.2	22
24	Repeatable ecological dynamics govern the response of experimental communities to antibiotic pulse perturbation. Nature Ecology and Evolution, 2020, 4, 1385-1394.	7.8	22
25	Ecological and Evolutionary Processes Shaping Viral Genetic Diversity. Viruses, 2019, 11, 220.	3.3	21
26	The feedback between selection and demography shapes genomic diversity during coevolution. Science Advances, 2019, 5, eaax0530.	10.3	20
27	Extortion strategies resist disciplining when higher competitiveness is rewarded with extra gain. Nature Communications, 2019, 10, 783.	12.8	20
28	Genomic evolution of bacterial populations under coselection by antibiotics and phage. Molecular Ecology, 2017, 26, 1848-1859.	3.9	19
29	Why Are Algal Viruses Not Always Successful?. Viruses, 2018, 10, 474.	3.3	17
30	Predator coevolution and prey trait variability determine species coexistence. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20190245.	2.6	17
31	Use of dd<scp>PCR</scp> in experimental evolution studies. Methods in Ecology and Evolution, 2016, 7, 340-351.	5.2	16
32	The evolution of convex trade-offs enables the transition towards multicellularity. Nature Communications, 2021, 12, 4222.	12.8	16
33	Co-evolution as an important component explaining microbial predator-prey interaction. Journal of Theoretical Biology, 2020, 486, 110095.	1.7	15
34	The role of stressors in altering ecoâ€evolutionary dynamics. Functional Ecology, 2019, 33, 73-83.	3.6	13
35	Using Microevolution to Explain the Macroevolutionary Observations for the Evolution of Sex. Interdisciplinary Evolution Research, 2015, , 279-299.	0.3	5
36	Strong selection and high mutation supply characterize experimental Chlorovirus evolution. Virus Evolution, 2022, 8, veac003.	4.9	5

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37	Antagonistic species interaction drives selection for sex in a predatorâ€“prey system. Journal of Evolutionary Biology, 2020, 33, 1180-1191.	1.7	4
38	Change in prey genotype frequency rescues predator from extinction. Royal Society Open Science, 2022, 9, .	2.4	4
39	Simultaneous Giant Virus and Virophage Quantification Using Droplet Digital PCR. Viruses, 2022, 14, 1056.	3.3	3
40	Effect of mutation supply on population dynamics and trait evolution in an experimental microbial community. Ecology Letters, 2022, 25, 355-365.	6.4	1
41	Contextâ€dependent costs and benefits of endosymbiotic interactions in a ciliateâ€“algae system. Environmental Microbiology, 0, , .	3.8	1