Lilach Hadany

List of Publications by Year
in descending order

52 papers	1,646 citations	331670 21 h-index	345221 36 g-index
64 all docs	64 docs citations	64 times ranked	1807 citing authors

#	Article	IF	Citations
1	Gamblers: An Antibiotic-Induced Evolvable Cell Subpopulation Differentiated by Reactive-Oxygen-Induced General Stress Response. Molecular Cell, 2019, 74, 785-800.e7.	9.7	126
2	Predicting microbial growth in a mixed culture from growth curve data. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14698-14707.	7.1	102
3	On the Evolutionary Advantage of Fitness-Associated Recombination. Genetics, 2003, 165, 2167-2179.	2.9	92
4	THE EVOLUTION OF STRESS-INDUCED HYPERMUTATION IN ASEXUAL POPULATIONS. Evolution; International Journal of Organic Evolution, 2012, 66, 2315-2328.	2.3	86
5	Flowers respond to pollinator sound within minutes by increasing nectar sugar concentration. Ecology Letters, 2019, 22, 1483-1492.	6.4	79
6	Spontaneous Changes in Ploidy Are Common in Yeast. Current Biology, 2018, 28, 825-835.e4.	3.9	71
7	Condition-dependent sex: who does it, when and why?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150539.	4.0	66
8	Does stress induce (para)sex? Implications for Candida albicans evolution. Trends in Genetics, 2012, 28, 197-203.	6.7	65
9	Stress-induced mutagenesis and complex adaptation. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20141025.	2.6	64
10	The Evolution of Plastic Recombination. Genetics, 2005, 171, 803-812.	2.9	63
11	The Evolution of Condition-Dependent Sex in the Face of High Costs. Genetics, 2007, 176, 1713-1727.	2.9	60
12	Why Are Sex and Recombination So Common?. Annals of the New York Academy of Sciences, 2008, 1133, 26-43.	3.8	59
13	Mutability and Importance of a Hypermutable Cell Subpopulation that Produces Stress-Induced Mutants in Escherichia coli. PLoS Genetics, 2008, 4, e1000208.	3.5	53
14	Implications of stress-induced genetic variation for minimizing multidrug resistance in bacteria. BMC Medicine, 2012, 10, 89.	5.5	51
15	Microbes can help explain the evolution of host altruism. Nature Communications, 2017, 8, 14040.	12.8	47
16	Predicting Antibiotic Resistance in Hospitalized Patients by Applying Machine Learning to Electronic Medical Records. Clinical Infectious Diseases, 2021, 72, e848-e855.	5.8	47
17	Antibiotic Restriction Might Facilitate the Emergence of Multi-drug Resistance. PLoS Computational Biology, 2015, 11, e1004340.	3.2	44
18	Plantâ€“pollinator population dynamics. Theoretical Population Biology, 2010, 78, 270-277.	1.1	43

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19	Conditionâ€Dependent Sex and the Rate of Adaptation. American Naturalist, 2009, 174, S71-S78.	2.1	41
20	Sexual selection and the evolution of obligatory sex. BMC Evolutionary Biology, 2007, 7, 245.	3.2	33
21	Hostâ€“microbiome coevolution can promote cooperation in a rockâ€“paperâ€“scissors dynamics. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20192754.	2.6	30
22	Key issues review: evolution on rugged adaptive landscapes. Reports on Progress in Physics, 2018, 81, 012602.	20.1	25
23	Transgenerational inheritance of sexual attractiveness via small RNAs enhances evolvability in C.Âelegans. Developmental Cell, 2022, 57, 298-309.e9.	7.0	24
24	Antibiotic cross-resistance in the lab and resistance co-occurrence in the clinic: Discrepancies and implications in E. coli. Infection, Genetics and Evolution, 2016, 40, 155-161.	2.3	22
25	Adaptive peak shifts in a heterogenous environment. Theoretical Population Biology, 2003, 63, 41-51.	1.1	20
26	Dispersing away from bad genotypes: the evolution of Fitness-Associated Dispersal (FAD) in homogeneous environments. BMC Evolutionary Biology, 2013, 13, 125.	3.2	20
27	Bimodal regulation of ICR1 levels generates self-organizing auxin distribution. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5471-9.	7.1	20
28	Potential contribution of fish restocking to the recovery of deteriorated coral reefs: an alternative restoration method?. PeerJ, 2016, 4, e1732.	2.0	19
29	Random search with resetting as a strategy for optimal pollination. Physical Review E, 2019, 99, 052119.	2.1	17
30	Why is stress so deadly? An evolutionary perspective. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 881-885.	2.6	16
31	The evolution of paternal care: a role for microbes?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190599.	4.0	15
32	A Conflict Between Two Evolutionary Levels in Trees. Journal of Theoretical Biology, 2001, 208, 507-521.	1.7	10
33	The probability of improvement in Fisherâ€™s geometric model: A probabilistic approach. Theoretical Population Biology, 2015, 99, 1-6.	1.1	10
34	With a little help from my friends: cooperation can accelerate the rate of adaptive valley crossing. BMC Evolutionary Biology, 2017, 17, 143.	3.2	10
35	Pollinatorâ€mediated selection on floral size and tube color in <i>Linum pubescens</i>: Can differential behavior and preference in different times of the day maintain dimorphism?. Ecology and Evolution, 2018, 8, 1096-1106.	1.9	10
36	Evolution of Stress-Induced Mutagenesis in the Presence of Horizontal Gene Transfer. American Naturalist, 2019, 194, 73-89.	2.1	10

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37	Food Selectivity and Diet Switch Can Explain the Slow Feeding of Herbivorous Coral-Reef Fishes during the Morning. PLoS ONE, 2013, 8, e82391.	2.5	8
38	Drug induced superinfection in HIV and the evolution of drug resistance. Infection, Genetics and Evolution, 2008, 8, 40-50.	2.3	7
39	The evolution of obligate sex: the roles of sexual selection and recombination. Ecology and Evolution, 2015, 5, 2572-2583.	1.9	7
40	Modeling the evolution of SARS-CoV-2 under non-pharmaceutical interventions and testing. Evolution, Medicine and Public Health, 2022, 10, 179-188.	2.5	7
41	Reply to Balsa-Canto et al.: Growth models are applicable to growth data, not to stationary-phase data. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 814-815.	7.1	6
42	Regulated superinfection may help HIV adaptation on rugged landscape. Infection, Genetics and Evolution, 2010, 10, 505-510.	2.3	5
43	Resistance profiles of coagulase-negative staphylococci contaminating blood cultures predict pathogen resistance and patient mortality. Journal of Antimicrobial Chemotherapy, 2014, 69, 2541-2546.	3.0	5
44	Floral advertisement and the competition for pollination services. BioSystems, 2015, 132-133, 35-42.	2.0	4
45	Annual climatic fluctuations and short-term genetic variation in the eastern spadefoot toad. Scientific Reports, 2021, 11, 13514.	3.3	3
46	Microbiomeâ€related aspects of locust densityâ€dependent phase transition. Environmental Microbiology, 2022, 24, 507-516.	3.8	3
47	Errors in mutagenesis and the benefit of cell-to-cell signalling in the evolution of stress-induced mutagenesis. Royal Society Open Science, 2017, 4, 170529.	2.4	2
48	Less fit Lamium amplexicaule plants produce more dispersible seeds. Scientific Reports, 2019, 9, 6299.	3.3	2
49	Floral complexity can help maintain plant diversity by inducing pollinator specialization. Journal of Ecology, 2021, 109, 2897-2908.	4.0	2
50	Some topics in theoretical population genetics: Editorial commentaries on a selection of Marc Feldmanâ€™s TPB papers. Theoretical Population Biology, 2019, 129, 4-8.	1.1	1
51	Plantsâ€™ ability to sense and respond to airborne sound is likely to be adaptive: reply to comment by Pyke et al. Ecology Letters, 2020, 23, 1423-1425.	6.4	0
52	Increased sugar concentration in response to a wide range of pollinator sounds can be adaptive for the plant: answer to Raguso <i>et al</i>. Ecology Letters, 2020, 23, 1553-1554.	6.4	0