

Daniel E Dykhuizen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10572457/publications.pdf>

Version: 2024-02-01

48
papers

4,188
citations

172207

29
h-index

223531

46
g-index

48
all docs

48
docs citations

48
times ranked

3406
citing authors

#	ARTICLE	IF	CITATIONS
1	Different adaptive strategies in <i>E. coli</i> populations evolving under macronutrient limitation and metal ion limitation. <i>BMC Evolutionary Biology</i> , 2018, 18, 72.	3.2	16
2	Pathogen population structure can explain hospital outbreaks. <i>ISME Journal</i> , 2018, 12, 2835-2843.	4.4	4
3	Evolutionary implications of Liebig's law of the minimum: Selection under low concentrations of two nonsubstitutable nutrients. <i>Ecology and Evolution</i> , 2017, 7, 5296-5309.	0.8	14
4	Evolution of Resistance to Continuously Increasing Streptomycin Concentrations in Populations of <i>Escherichia coli</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 1336-1342.	1.4	28
5	The effects of species properties and community context on establishment success. <i>Oikos</i> , 2015, 124, 355-363.	1.2	10
6	Evolution of Northeastern and Midwestern <i>Borrelia burgdorferi</i> , United States. <i>Emerging Infectious Diseases</i> , 2010, 16, 911-917.	2.0	46
7	Waste and Yet Want Not. <i>Molecular Cell</i> , 2010, 38, 625-626.	4.5	2
8	High frequency of hotspot mutations in core genes of <i>Escherichia coli</i> due to short-term positive selection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 12412-12417.	3.3	95
9	Transcription, Translation, and the Evolution of Specialists and Generalists. <i>Molecular Biology and Evolution</i> , 2009, 26, 2661-2678.	3.5	20
10	The Cost of Expression of <i>Escherichia coli lac</i> Operon Proteins Is in the Process, Not in the Products. <i>Genetics</i> , 2008, 178, 1653-1660.	1.2	187
11	Conspicuous impacts of inconspicuous hosts on the Lyme disease epidemic. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 227-235.	1.2	179
12	The propensity of different <i>Borrelia burgdorferi sensu stricto</i> genotypes to cause disseminated infections in humans. <i>American Journal of Tropical Medicine and Hygiene</i> , 2008, 78, 806-10.	0.6	71
13	VARIATION OF ENZYME ACTIVITIES AT A BRANCHED PATHWAY INVOLVED IN THE UTILIZATION OF GLUCONATE IN <i>ESCHERICHIA COLI</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2007, 55, 897-908.	1.1	0
14	Selection for functional diversity drives accumulation of point mutations in Dr adhesins of <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2007, 64, 180-194.	1.2	32
15	Source-sink dynamics of virulence evolution. <i>Nature Reviews Microbiology</i> , 2006, 4, 548-555.	13.6	134
16	A MODEST MODEL EXPLAINS THE DISTRIBUTION AND ABUNDANCE OF <i>BORRELIA BURGDORFERI</i> STRAINS. <i>American Journal of Tropical Medicine and Hygiene</i> , 2006, 74, 615-622.	0.6	35
17	A modest model explains the distribution and abundance of <i>Borrelia burgdorferi</i> strains. <i>American Journal of Tropical Medicine and Hygiene</i> , 2006, 74, 615-22.	0.6	26
18	Evolutionary genomics of ecological specialization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 11719-11724.	3.3	86

#	ARTICLE	IF	CITATIONS
19	ospC Diversity in <i>Borrelia burgdorferi</i> . <i>Genetics</i> , 2004, 168, 713-722.	1.2	245
20	Evolution of Specialists in an Experimental Microcosm. <i>Genetics</i> , 2004, 167, 2015-2026.	1.2	40
21	Enterobacterial adhesins and the case for studying SNPs in bacteria. <i>Trends in Microbiology</i> , 2003, 11, 115-117.	3.5	42
22	SIZE DOESN'T MATTER: MICROBIAL SELECTION EXPERIMENTS ADDRESS ECOLOGICAL PHENOMENA. <i>Ecology</i> , 2003, 84, 1679-1687.	1.5	13
23	Geographic Uniformity of the Lyme Disease Spirochete (<i>Borrelia burgdorferi</i>) and Its Shared History With Tick Vector (<i>Ixodes scapularis</i>) in the Northeastern United States. <i>Genetics</i> , 2002, 160, 833-849.	1.2	215
24	Enzyme Kinetics, Substitutable Resources and Competition: From Biochemistry to Frequency-Dependent Selection in <i>lac</i> . <i>Genetics</i> , 2002, 162, 485-499.	1.2	37
25	The implications of a low rate of horizontal transfer in <i>Borrelia</i> . <i>Trends in Microbiology</i> , 2001, 9, 344-350.	3.5	105
26	Methods for Estimating Gene Frequencies and Detecting Selection in Bacterial Populations. <i>Genetics</i> , 2000, 155, 499-508.	1.2	17
27	Recombinant Chimeric <i>Borrelia</i> Proteins for Diagnosis of Lyme Disease. <i>Journal of Clinical Microbiology</i> , 2000, 38, 2530-2535.	1.8	32
28	Infection With Multiple Strains of <i>Borrelia burgdorferi</i> Sensu Stricto in Patients With Lyme Disease. <i>Archives of Dermatology</i> , 1999, 135, 1329-33.	1.7	46
29	Pathoadaptive mutations: gene loss and variation in bacterial pathogens. <i>Trends in Microbiology</i> , 1999, 7, 191-195.	3.5	205
30	Genetic Diversity of ospC in a Local Population of <i>Borrelia burgdorferi</i> sensu stricto. <i>Genetics</i> , 1999, 151, 15-30.	1.2	273
31	Four Clones of <i>Borrelia burgdorferi</i> Sensu Stricto Cause Invasive Infection in Humans. <i>Infection and Immunity</i> , 1999, 67, 3518-3524.	1.0	260
32	Santa Rosalia revisited: why are there so many species of bacteria?. , 1998, 73, 25-33.		245
33	The evolution of phage lysis timing. <i>Evolutionary Ecology</i> , 1996, 10, 545-558.	0.5	168
34	Predicted fitness changes along an environmental gradient. <i>Evolutionary Ecology</i> , 1994, 8, 524-541.	0.5	24
35	[45] Chemostats used for studying natural selection and adaptive evolution. <i>Methods in Enzymology</i> , 1993, 224, 613-631.	0.4	42
36	THE INCREASED POTENTIAL FOR SELECTION OF THE <i>LAC</i> OPERON OF <i>ESCHERICHIA COLI</i> . Evolution; <i>International Journal of Organic Evolution</i> , 1993, 47, 741-749.	1.1	16

#	ARTICLE	IF	CITATIONS
37	Mountaineering with microbes. <i>Nature</i> , 1990, 346, 15-16.	13.7	4
38	Experimental Studies of Natural Selection in Bacteria. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 1990, 21, 373-398.	6.7	178
39	Enzyme activity and fitness: Evolution in solution. <i>Trends in Ecology and Evolution</i> , 1990, 5, 257-262.	4.2	114
40	Metabolic Flux and Fitness. <i>Genetics</i> , 1987, 115, 25-31.	1.2	242
41	Distribution and Abundance of Insertion Sequences Among Natural Isolates of <i>Escherichia coli</i> . <i>Genetics</i> , 1987, 115, 51-63.	1.2	153
42	Fitness as a function of β -galactosidase activity in <i>Escherichia coli</i> . <i>Genetical Research</i> , 1986, 48, 1-8.	0.3	91
43	JOINT DISTRIBUTION OF INSERTION ELEMENTS IS4 AND IS5 IN NATURAL ISOLATES OF <i>ESCHERICHIA COLI</i> . <i>Genetics</i> , 1985, 111, 219-231.	1.2	18
44	LIMITS OF ADAPTATION: THE EVOLUTION OF SELECTIVE NEUTRALITY. <i>Genetics</i> , 1985, 111, 655-674.	1.2	279
45	Potential for hitchhiking in the <i>eda-edd-zwf</i> gene cluster of <i>Escherichia coli</i> . <i>Genetical Research</i> , 1984, 43, 229-239.	0.3	8
46	SPECIFIC DELETION OCCURRING IN THE DIRECTED EVOLUTION OF 6-PHOSPHOGLUCONATE DEHYDROGENASE IN <i>ESCHERICHIA COLI</i> . <i>Genetics</i> , 1984, 108, 765-772.	1.2	12
47	Accessory DNAs in the Bacterial Gene Pool: Playground for Coevolution. <i>Novartis Foundation Symposium</i> , 1984, 102, 233-252.	1.2	8
48	FUNCTIONAL EFFECTS OF PGI ALLOZYMES IN <i>ESCHERICHIA COLI</i> . <i>Genetics</i> , 1983, 105, 1-18.	1.2	71