Michael Travisano

List of Publications by Year
in descending order

74	5,784	30	69
papers	citations	h-index	g-index
		159358	91712
94	94	94	5565
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Adaptive radiation in a heterogeneous environment. Nature, 1998, 394, 69-72.	13.7	1,099
2	Experimental evolution of multicellularity. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1595-1600.	3.3	427
3	Season of Conception in Rural Gambia Affects DNA Methylation at Putative Human Metastable Epialleles. PLoS Genetics, 2010, 6, e1001252.	1.5	393
4	Adaptive Divergence in Experimental Populations of<i>Pseudomonas fluorescens</i>. I. Genetic and Phenotypic Bases of Wrinkly Spreader Fitness. Genetics, 2002, 161, 33-46.	1.2	257
5	Long-Term Experimental Evolution in Escherichia coli. II. Changes in Life-History Traits During Adaptation to a Seasonal Environment. American Naturalist, 1994, 144, 432-456.	1.0	248
6	The Prisoner's Dilemma and polymorphism in yeast SUC genes. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, S25-6.	1.2	237
7	Strategies of microbial cheater control. Trends in Microbiology, 2004, 12, 72-78.	3.5	236
8	Long-Term Experimental Evolution in <i>Escherichia coli.</i> IV. Targets of Selection and the Specificity of Adaptation. Genetics, 1996, 143, 15-26.	1.2	214
9	Dietâ€induced hypermethylation at agouti viable yellow is not inherited transgenerationally through the female. FASEB Journal, 2007, 21, 3380-3385.	0.2	185
10	The emergence and maintenance of diversity: insights from experimental bacterial populations. Trends in Ecology and Evolution, 2000, 15, 243-247.	4.2	171
11	EXPERIMENTAL EVIDENCE FOR SYMPATRIC ECOLOGICAL DIVERSIFICATION DUE TO FREQUENCY-DEPENDENT COMPETITION IN ESCHERICHIA COLI. Evolution; International Journal of Organic Evolution, 2004, 58, 245-260.	1.1	157
12	Hybrid Speciation in Experimental Populations of Yeast. Science, 2002, 298, 1773-1775.	6.0	155
13	Evolution of competitive fitness in experimental populations of E. coli: what makes one genotype a better competitor than another?. Antonie Van Leeuwenhoek, 1998, 73, 35-47.	0.7	154
14	Experimental evolution of an alternating uni- and multicellular life cycle in Chlamydomonas reinhardtii. Nature Communications, 2013, 4, 2742.	5.8	146
15	Origins of multicellular evolvability in snowflake yeast. Nature Communications, 2015, 6, 6102.	5.8	133
16	Detecting Linkage Disequilibrium in Bacterial Populations. Genetics, 1998, 150, 1341-1348.	1.2	120
17	LONGâ€TERM EXPERIMENTAL EVOLUTION IN <i>ESCHERICHIA COLI</i> . III. VARIATION AMONG REPLICATE POPULATIONS IN CORRELATED RESPONSES TO NOVEL ENVIRONMENTS. Evolution; International Journal of Organic Evolution, 1995, 49, 189-200.	1.1	102
18	Antagonism influences assembly of a <i>Bacillus</i> guild in a local community and is depicted as a food-chain network. ISME Journal, 2013, 7, 487-497.	4.4	94

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19	Long-Term Experimental Evolution in Escherichia coli. III. Variation Among Replicate Populations in Correlated Responses to Novel Environments. Evolution; International Journal of Organic Evolution, 1995, 49, 189.	1.1	82
20	Experimental evidence for sympatric ecological diversification due to frequency-dependent competition in Escherichia coli. Evolution; International Journal of Organic Evolution, 2004, 58, 245-60.	1.1	81
21	LOST IN THE MAP. Evolution; International Journal of Organic Evolution, 2013, 67, 305-314.	1.1	78
22	Adaptive Diversification in Genes That Regulate Resource Use in Escherichia coli. PLoS Genetics, 2007, 3, e15.	1.5	63
23	Diversity of culturable thermo-resistant aquatic bacteria along an environmental gradient in Cuatro CiÃ©negas, Coahuila, MÃ©xico. Antonie Van Leeuwenhoek, 2011, 99, 303-318.	0.7	62
24	Ecological perspectives on synthetic biology: insights from microbial population biology. Frontiers in Microbiology, 2015, 6, 143.	1.5	62
25	EPISTATIC INTERACTIONS CAN LOWER THE COST OF RESISTANCE TO MULTIPLE CONSUMERS. Evolution; International Journal of Organic Evolution, 1999, 53, 292-295.	1.1	55
26	Long-Term Experimental Evolution in <i>Escherichia coli</i>. VI. Environmental Constraints on Adaptation and Divergence. Genetics, 1997, 146, 471-479.	1.2	53
27	The lost world of Cuatro CiÃ©negas Basin, a relictual bacterial niche in a desert oasis. ELife, 2018, 7, .	2.8	51
28	DENSITY-DEPENDENT EFFECTS ON ALLELOPATHIC INTERACTIONS IN YEAST. Evolution; International Journal of Organic Evolution, 2008, 62, 521-527.	1.1	49
29	TEMPO AND MODE OF MULTICELLULAR ADAPTATION IN EXPERIMENTALLY EVOLVEDSACCHAROMYCES CEREVISIAE. Evolution; International Journal of Organic Evolution, 2013, 67, 1573-1581.	1.1	45
30	Geometry Shapes Evolution of Early Multicellularity. PLoS Computational Biology, 2014, 10, e1003803.	1.5	45
31	The Repeatability of Adaptive Radiation During Long-Term Experimental Evolution of Escherichia coli in a Multiple Nutrient Environment. PLoS ONE, 2010, 5, e14184.	1.1	39
32	Spatial structure leads to ecological breakdown and loss of diversity. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 2065-2070.	1.2	35
33	EXPERIMENTAL EVIDENCE FOR SYMPATRIC ECOLOGICAL DIVERSIFICATION DUE TO FREQUENCY-DEPENDENT COMPETITION IN ESCHERICHIA COLI. Evolution; International Journal of Organic Evolution, 2004, 58, 245.	1.1	33
34	Travel, Sex, and Food: What's Speciation Got to Do with It?. Astrobiology, 2012, 12, 634-640.	1.5	30
35	Unparallel diversification in bacterial microcosms. Proceedings of the Royal Society B: Biological Sciences, 2005, 272, 1393-1398.	1.2	29
36	Microbes modeling ontogeny. Biology and Philosophy, 2013, 28, 161-188.	0.7	27

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37	Isolation and characterization of a new aromatic compound-degrading alkalitrophic bacteria.. Journal of General and Applied Microbiology, 1998, 44, 101-106.	0.4	24
38	Mesocosms of Aquatic Bacterial Communities from the Cuatro Cienegas Basin (Mexico): A Tool to Test Bacterial Community Response to Environmental Stress. Microbial Ecology, 2012, 64, 346-358.	1.4	23
39	Synergistic cooperation promotes multicellular performance and unicellular free-rider persistence. Nature Communications, 2017, 8, 15707.	5.8	21
40	Phenotypic Microdiversity and Phylogenetic Signal Analysis of Traits Related to Social Interaction in Bacillus spp. from Sediment Communities. Frontiers in Microbiology, 2017, 8, 29.	1.5	21
41	Adaptation, chance, and history in experimental evolution reversals to unicellularity. Evolution; International Journal of Organic Evolution, 2019, 73, 73-83.	1.1	19
42	How Do Microbial Populations and Communities Function as Model Systems?. Quarterly Review of Biology, 2015, 90, 269-293.	0.0	18
43	Thymus: central role in the immune system of the frog. Science, 1975, 190, 1101-1103.	6.0	16
44	Symbiont evolution during the free-living phase can improve host colonization. Microbiology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.7	15
45	Disentangling Direct and Indirect Fitness Effects of Microbial Dormancy. American Naturalist, 2013, 182, 147-156.	1.0	14
46	When Stress Predicts a Shrinking Gene Pool, Trading Early Reproduction for Longevity Can Increase Fitness, Even with Lower Fecundity. PLoS ONE, 2009, 4, e6055.	1.1	12
47	Experimental Evolution of Multicellular Complexity in Saccharomyces cerevisiae. BioScience, 2014, 64, 383-393.	2.2	12
48	The Cost of Being Big: Local Competition, Importance of Dispersal, and Experimental Evolution of Reversal to Unicellularity. American Naturalist, 2018, 192, 731-744.	1.0	12
49	Plastic multicellular development of<i>Myxococcus xanthus</i>: genotypeâ€“environment interactions in a physical gradient. Royal Society Open Science, 2019, 6, 181730.	1.1	12
50	A Spectrum of Pleiotropic Consequences in Development Due to Changes in a Regulatory Pathway. PLoS ONE, 2012, 7, e43413.	1.1	12
51	Adaptation and Exaptation: From Small Molecules to Feathers. Journal of Molecular Evolution, 2022, 90, 166-175.	0.8	12
52	Plasmid hypermutation using a targeted artificial DNA replisome. Science Advances, 2021, 7, .	4.7	10
53	Understanding microbial community diversity metrics derived from metagenomes: performance evaluation using simulated data sets. FEMS Microbiology Ecology, 2012, 82, 37-49.	1.3	9
54	Exploring the evolution of multicellularity in <i>Saccharomyces cerevisiae</i> under bacteria environment: An experimental phylogenetics approach. Ecology and Evolution, 2018, 8, 4619-4630.	0.8	8

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55	Evolution: Towards a genetical theory of adaptation. Current Biology, 2001, 11, R440-R442.	1.8	7
56	Lessons from movement ecology for the return to work: Modeling contacts and the spread of COVID-19. PLoS ONE, 2021, 16, e0242955.	1.1	6
57	Archaeal Communities: The Microbial Phylogenomic Frontier. Frontiers in Genetics, 2021, 12, 693193.	1.1	6
58	Editorial: Conflict and Cooperation in Microbial Societies. Frontiers in Microbiology, 2017, 8, 141.	1.5	5
59	The Evolution of Molecular Compatibility between Bacteriophage Î¦X174 and its Host. Scientific Reports, 2018, 8, 8350.	1.6	5
60	Developmental evolution facilitates rapid adaptation. Scientific Reports, 2017, 7, 15891.	1.6	4
61	Clonal Development is Evolutionarily Superior to Aggregation in Wild-Collected Saccharomyces cerevisiae. , 0, , .		4
62	Response to â€œMethyl donors change the germline epigenetic state of the <i> A ^{vy} </i> alleleâ€• FASEB Journal, 2007, 21, 3021-3022.	0.2	3
63	Adaptation and Divergence during Experimental Evolution of Multicellular Saccharomyces cerevisiae. , 0, , .		3
64	The Fungus <i>Trichoderma</i> Regulates Submerged Conidiation Using the Steroid Pregnenolone. ACS Chemical Biology, 2016, 11, 2568-2575.	1.6	3
65	Evolutionary innovation using EDGE, a system for localized elevated mutagenesis. PLoS ONE, 2020, 15, e0232330.	1.1	3
66	Experimental Evolution of Trichoderma citrinoviride for Faster Deconstruction of Cellulose. PLoS ONE, 2016, 11, e0147024.	1.1	3
67	Long-Term Experimental Evolution and Adaptive Radiation. , 2009, , 111-133.		3
68	Loss-of-heterozygosity facilitates a fitness valley crossing in experimentally evolved multicellular yeast. Proceedings of the Royal Society B: Biological Sciences, 2022, 289, .	1.2	3
69	Rapid adaptation to near extinction in microbial experimental evolution. Journal of Bioeconomics, 2018, 20, 141-152.	1.5	2
70	Parallelism in adaptive radiations of experimentalEscherichia colipopulations. Evolution; International Journal of Organic Evolution, 2016, 70, 98-110.	1.1	1
71	The landscape of innovation in bacteria, battleships, and beyond. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2015565118.	3.3	1
72	Predicting Fitness Effects of Beneficial Mutations in Digital Organisms. , 2007, , .		0

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73	The Niche at the Edge of Life or the Microbial Ecology (Including Microfungi) of Cuatro CiÃ©negas: Mutualisms with Locals, Antagonisms Against Foreigners. Cuatro Cie̔negas Basin: an Endangered Hyperdiverse Oasis, 2018, , 73-82.	0.4	0
74	Dietâ€induced hypermethylation at viable yellow agouti is not inherited transgenerationally. FASEB Journal, 2007, 21, A291.	0.2	0