

Troy Day

List of Publications by Year in descending order

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143
papers

11,765
citations

25034

57
h-index

32842

100
g-index

148
all docs

148
docs citations

148
times ranked

10726
citing authors

#	ARTICLE	IF	CITATIONS
1	The evolution of age-specific choosiness when mating. <i>Journal of Evolutionary Biology</i> , 2021, 34, 477-485.	1.7	2
2	The origins and potential future of SARS-CoV-2 variants of concern in the evolving COVID-19 pandemic. <i>Current Biology</i> , 2021, 31, R918-R929.	3.9	246
3	Demystifying individual heterogeneity. <i>Ecology Letters</i> , 2021, 24, 2282-2297.	6.4	12
4	The economics of managing evolution. <i>PLoS Biology</i> , 2021, 19, e3001409.	5.6	6
5	The evolution of age-specific choosiness and reproductive isolation in a model with overlapping generations. <i>Evolution; International Journal of Organic Evolution</i> , 2021, , .	2.3	0
6	Working in a bubble: How can businesses reopen while limiting the risk of COVID-19 outbreaks?. <i>Cmaj</i> , 2020, 192, E1362-E1366.	2.0	11
7	On the evolutionary epidemiology of SARS-CoV-2. <i>Current Biology</i> , 2020, 30, R849-R857.	3.9	160
8	The Price equation and evolutionary epidemiology. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190357.	4.0	20
9	Evolutionary consequences of feedbacks between within-host competition and disease control. <i>Evolution, Medicine and Public Health</i> , 2020, 2020, 30-34.	2.5	7
10	Density Dependence, Senescence, and Williams's™ Hypothesis. <i>Trends in Ecology and Evolution</i> , 2020, 35, 300-302.	8.7	14
11	Nongenetic inheritance and multigenerational plasticity in the nematode <i>C. elegans</i> . <i>ELife</i> , 2020, 9, .	6.0	55
12	Poisson integral type quarantine in a stochastic SIR system. <i>Mathematical Biosciences and Engineering</i> , 2020, 17, 5534-5544.	1.9	0
13	Fighting the Public Health Burden of AIDS With the Human Pegivirus. <i>American Journal of Epidemiology</i> , 2019, 188, 1586-1594.	3.4	13
14	Why is sterility virulence most common in sexually transmitted infections? Examining the role of epidemiology. <i>Evolution; International Journal of Organic Evolution</i> , 2019, 73, 872-882.	2.3	4
15	Social evolution under demographic stochasticity. <i>PLoS Computational Biology</i> , 2019, 15, e1006739.	3.2	7
16	Managing Marek's™ disease in the egg industry. <i>Epidemics</i> , 2019, 27, 52-58.	3.0	17
17	Pathogen evolution in finite populations: slow and steady spreads the best. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180135.	3.4	22
18	The Role of Phenotypic Plasticity in Moderating Evolutionary Conflict. <i>American Naturalist</i> , 2018, 192, 230-240.	2.1	5

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19	The industrialization of farming may be driving virulence evolution. <i>Evolutionary Applications</i> , 2017, 10, 189-198.	3.1	30
20	Female plasticity tends to reduce sexual conflict. <i>Nature Ecology and Evolution</i> , 2017, 1, 54.	7.8	9
21	Modeling stochastic anomalies in an SIS system. <i>Stochastic Analysis and Applications</i> , 2017, 35, 27-39.	1.5	2
22	Time-varying and state-dependent recovery rates in epidemiological models. <i>Infectious Disease Modelling</i> , 2017, 2, 419-430.	1.9	15
23	Resource limitation prevents the emergence of drug resistance by intensifying within-host competition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13774-13779.	7.1	65
24	Does High-Dose Antimicrobial Chemotherapy Prevent the Evolution of Resistance?. <i>PLoS Computational Biology</i> , 2016, 12, e1004689.	3.2	115
25	The adaptive evolution of virulence: a review of theoretical predictions and empirical tests. <i>Parasitology</i> , 2016, 143, 915-930.	1.5	252
26	Forecasting Epidemiological and Evolutionary Dynamics of Infectious Diseases. <i>Trends in Ecology and Evolution</i> , 2016, 31, 776-788.	8.7	66
27	Interpreting phenotypic antibiotic tolerance and persister cells as evolution via epigenetic inheritance. <i>Molecular Ecology</i> , 2016, 25, 1869-1882.	3.9	35
28	Disease eradication on large industrial farms. <i>Journal of Mathematical Biology</i> , 2016, 73, 885-902.	1.9	13
29	Information entropy as a measure of genetic diversity and evolvability in colonization. <i>Molecular Ecology</i> , 2015, 24, 2073-2083.	3.9	14
30	Is selection relevant in the evolutionary emergence of drug resistance?. <i>Trends in Microbiology</i> , 2015, 23, 126-133.	7.7	83
31	Evolution of hosts paying manifold costs of defence. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20150065.	2.6	41
32	Pathogen evolution under host avoidance plasticity. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20151656.	2.6	8
33	The evolutionary advantage of haploid versus diploid microbes in nutrient-poor environments. <i>Journal of Theoretical Biology</i> , 2015, 383, 116-129.	1.7	6
34	Could the human papillomavirus vaccines drive virulence evolution?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20141069.	2.6	29
35	The path of least resistance: aggressive or moderate treatment?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140566.	2.6	79
36	Sexually transmitted infection and the evolution of serial monogamy. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20141726.	2.6	23

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37	A theoretical examination of the relative importance of evolution management and drug development for managing resistance. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20141861.	2.6	42
38	Starvation reveals the cause of infection-induced castration and gigantism. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20141087.	2.6	28
39	Disentangling the interaction among host resources, the immune system and pathogens. <i>Ecology Letters</i> , 2014, 17, 284-293.	6.4	126
40	IMMUNE EVASION AND THE EVOLUTION OF MOLECULAR MIMICRY IN PARASITES. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, n/a-n/a.	2.3	19
41	Nongenetic inheritance and the evolution of costly female preference. <i>Journal of Evolutionary Biology</i> , 2013, 26, 76-87.	1.7	39
42	Aggressive Chemotherapy and the Selection of Drug Resistant Pathogens. <i>PLoS Pathogens</i> , 2013, 9, e1003578.	4.7	81
43	Inferring the causes of the three waves of the 1918 influenza pandemic in England and Wales. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20131345.	2.6	109
44	Computability, Gödel's incompleteness theorem, and an inherent limit on the predictability of evolution. <i>Journal of the Royal Society Interface</i> , 2012, 9, 624-639.	3.4	16
45	The implications of nongenetic inheritance for evolution in changing environments. <i>Evolutionary Applications</i> , 2012, 5, 192-201.	3.1	291
46	THE EVOLUTIONARY EPIDEMIOLOGY OF MULTILOCUS DRUG RESISTANCE. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 1582-1597.	2.3	35
47	A Unified Approach to the Evolutionary Consequences of Genetic and Nongenetic Inheritance. <i>American Naturalist</i> , 2011, 178, E18-E36.	2.1	264
48	Causes of Variation in Malaria Infection Dynamics: Insights from Theory and Data. <i>American Naturalist</i> , 2011, 178, E174-E188.	2.1	26
49	Evolution in structured populations: beyond the kin versus group debate. <i>Trends in Ecology and Evolution</i> , 2011, 26, 193-201.	8.7	71
50	BRIDGING SCALES IN THE EVOLUTION OF INFECTIOUS DISEASE LIFE HISTORIES: APPLICATION. <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 3298-3310.	2.3	40
51	BRIDGING SCALES IN THE EVOLUTION OF INFECTIOUS DISEASE LIFE HISTORIES: THEORY. <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 3448-3461.	2.3	55
52	Inclusive fitness theory and eusociality. <i>Nature</i> , 2011, 471, E1-E4.	27.8	339
53	Evolutionary principles and their practical application. <i>Evolutionary Applications</i> , 2011, 4, 159-183.	3.1	230
54	Optimal control of epidemics with limited resources. <i>Journal of Mathematical Biology</i> , 2011, 62, 423-451.	1.9	147

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55	Mechanistic modelling of the three waves of the 1918 influenza pandemic. <i>Theoretical Ecology</i> , 2011, 4, 283-288.	1.0	41
56	The evolution of drug resistance and the curious orthodoxy of aggressive chemotherapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10871-10877.	7.1	237
57	Optimal antiviral treatment strategies and the effects of resistance. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 1082-1089.	2.6	21
58	Next-generation tools for evolutionary invasion analyses. <i>Journal of the Royal Society Interface</i> , 2010, 7, 561-571.	3.4	113
59	Risk factors for the evolutionary emergence of pathogens. <i>Journal of the Royal Society Interface</i> , 2010, 7, 1455-1474.	3.4	54
60	The Coevolution of Virulence: Tolerance in Perspective. <i>PLoS Pathogens</i> , 2010, 6, e1001006.	4.7	149
61	EDITORIAL: Editorial: evolutionary medicine special issue. <i>Evolutionary Applications</i> , 2009, 2, 7-10.	3.1	4
62	EVOLUTIONARY EPIDEMIOLOGY AND THE DYNAMICS OF ADAPTATION. <i>Evolution; International Journal of Organic Evolution</i> , 2009, 63, 826-838.	2.3	65
63	Nongenetic Inheritance and Its Evolutionary Implications. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2009, 40, 103-125.	8.3	524
64	Mathematical Techniques in the Evolutionary Epidemiology of Infectious Diseases. <i>Series in Contemporary Applied Mathematics</i> , 2009, , 136-149.	0.8	2
65	Host-parasite coevolution and patterns of adaptation across time and space. <i>Journal of Evolutionary Biology</i> , 2008, 21, 1861-1866.	1.7	210
66	REVOLUTIONARY INVASION ANALYSES. <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 2709-2711.	2.3	0
67	Modelling malaria pathogenesis. <i>Cellular Microbiology</i> , 2008, 10, 1947-1955.	2.1	30
68	Epidemiological and evolutionary consequences of targeted vaccination. <i>Molecular Ecology</i> , 2008, 17, 485-499.	3.9	22
69	Why is HIV not vector-borne?. <i>Evolutionary Applications</i> , 2008, 1, 17-27.	3.1	11
70	Linking within- and between-host dynamics in the evolutionary epidemiology of infectious diseases. <i>Trends in Ecology and Evolution</i> , 2008, 23, 511-517.	8.7	303
71	The evolutionary consequences of vaccination. <i>Vaccine</i> , 2008, 26, C1-C3.	3.8	9
72	Evidences of parasite evolution after vaccination. <i>Vaccine</i> , 2008, 26, C4-C7.	3.8	55

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73	Factors Affecting the Evolution of Bleaching Resistance in Corals. <i>American Naturalist</i> , 2008, 171, E72-E88.	2.1	42
74	Understanding and Predicting Strain-Specific Patterns of Pathogenesis in the Rodent Malaria <i>Plasmodium chabaudi</i> . <i>American Naturalist</i> , 2008, 172, E214-E238.	2.1	65
75	On the evolution of reproductive restraint in malaria. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 1217-1224.	2.6	53
76	Evolution of parasite virulence when host responses cause disease. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 2685-2692.	2.6	84
77	The evolutionary epidemiology of vaccination. <i>Journal of the Royal Society Interface</i> , 2007, 4, 803-817.	3.4	96
78	Sperm Competition and the Evolution of Ejaculate Composition. <i>American Naturalist</i> , 2007, 169, E158-E172.	2.1	94
79	Chapter 15: Analyzing Continuous Stochastic Models—Diffusion in Time and Space. , 2007, , 649-691.		0
80	Chapter 11: Techniques for Analyzing Models with Periodic Behavior. , 2007, , 423-453.		0
81	Perfect reciprocity is the only evolutionarily stable strategy in the continuous iterated prisoner's dilemma. <i>Journal of Theoretical Biology</i> , 2007, 247, 11-22.	1.7	48
82	Evolution of cooperation in a finite homogeneous graph. <i>Nature</i> , 2007, 447, 469-472.	27.8	281
83	Applying population-genetic models in theoretical evolutionary epidemiology. <i>Ecology Letters</i> , 2007, 10, 876-888.	6.4	138
84	From inclusive fitness to fixation probability in homogeneous structured populations. <i>Journal of Theoretical Biology</i> , 2007, 249, 101-110.	1.7	69
85	Chapter 12: Evolutionary Invasion Analysis. , 2007, , 454-566.		5
86	The evolutionary consequences of plasticity in host-pathogen interactions. <i>Theoretical Population Biology</i> , 2006, 69, 323-331.	1.1	29
87	The shaping of senescence in the wild. <i>Trends in Ecology and Evolution</i> , 2006, 21, 458-463.	8.7	207
88	Detecting sexual conflict and sexually antagonistic coevolution. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006, 361, 277-285.	4.0	92
89	The evolutionary emergence of pandemic influenza. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 2945-2953.	2.6	19
90	When Is Quarantine a Useful Control Strategy for Emerging Infectious Diseases?. <i>American Journal of Epidemiology</i> , 2006, 163, 479-485.	3.4	127

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91	Insights from Price's equation into evolutionary epidemiology. DIMACS Series in Discrete Mathematics and Theoretical Computer Science, 2006, , 23-43.	0.0	48
92	Population structure attributable to reproductive time: isolation by time and adaptation by time. Molecular Ecology, 2005, 14, 901-916.	3.9	349
93	THE EVOLUTION OF SPERM-ALLOCATION STRATEGIES AND THE DEGREE OF SPERM COMPETITION. Evolution; International Journal of Organic Evolution, 2005, 59, 492-499.	2.3	54
94	MODELLING THE ECOLOGICAL CONTEXT OF EVOLUTIONARY CHANGE: D'ARNOU VU OR SOMETHING NEW?. , 2005, , 273-309.		17
95	The effect of disease life history on the evolutionary emergence of novel pathogens. Proceedings of the Royal Society B: Biological Sciences, 2005, 272, 1949-1956.	2.6	45
96	Escalation, Retreat, and Female Indifference as Alternative Outcomes of Sexually Antagonistic Coevolution. American Naturalist, 2005, 165, S5-S18.	2.1	100
97	Predicting Quarantine Failure Rates. Emerging Infectious Diseases, 2004, 10, 487-488.	4.3	3
98	Stability in negotiation games and the emergence of cooperation. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 669-674.	2.6	43
99	Competitive and Facilitative Evolutionary Diversification. BioScience, 2004, 54, 101.	4.9	90
100	Cooperate with thy neighbour?. Nature, 2004, 428, 611-612.	27.8	10
101	Intralocus Sexual Conflict Can Drive the Evolution of Genomic Imprinting. Genetics, 2004, 167, 1537-1546.	2.9	220
102	Modelling strategies for controlling SARS outbreaks. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 2223-2232.	2.6	304
103	A General Theory for the Evolutionary Dynamics of Virulence. American Naturalist, 2004, 163, E40-E63.	2.1	210
104	To Age or Not to Age--What Is the Question?. Science of Aging Knowledge Environment: SAGE KE, 2004, pe10-pe10.	0.8	0
105	Sexual conflict and indirect benefits. Journal of Evolutionary Biology, 2003, 16, 1055-1060.	1.7	136
106	Host mortality, predation and the evolution of parasite virulence. Ecology Letters, 2003, 6, 310-315.	6.4	51
107	ANTAGONISTIC PLEIOTROPY, MORTALITY SOURCE INTERACTIONS, AND THE EVOLUTIONARY THEORY OF SENESCENCE. Evolution; International Journal of Organic Evolution, 2003, 57, 1478-1488.	2.3	230
108	THE EVOLUTION OF STATIC ALLOMETRY IN SEXUALLY SELECTED TRAITS. Evolution; International Journal of Organic Evolution, 2003, 57, 2450-2458.	2.3	208

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109	A CONSIDERATION OF PATTERNS OF VIRULENCE ARISING FROM HOST-PARASITE COEVOLUTION. <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 671-676.	2.3	52
110	Virulence evolution and the timing of disease life-history events. <i>Trends in Ecology and Evolution</i> , 2003, 18, 113-118.	8.7	125
111	Understanding and managing pathogen evolution: a way forward. <i>Trends in Microbiology</i> , 2003, 11, 206-207.	7.7	14
112	A Theoretical Investigation of the Evolution and Maintenance of Mirror-image Flowers. <i>American Naturalist</i> , 2003, 161, 916-930.	2.1	24
113	THE EVOLUTION OF STATIC ALLOMETRY IN SEXUALLY SELECTED TRAITS. <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 2450.	2.3	8
114	Detecting sexually antagonistic coevolution with population crosses. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 2009-2016.	2.6	62
115	A CONSIDERATION OF PATTERNS OF VIRULENCE ARISING FROM HOST-PARASITE COEVOLUTION. <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 671.	2.3	10
116	THE ROLE OF SIZE-SPECIFIC PREDATION IN THE EVOLUTION AND DIVERSIFICATION OF PREY LIFE HISTORIES. <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 877.	2.3	2
117	Older males signal more reliably. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2002, 269, 2291-2299.	2.6	102
118	Developmental Thresholds and the Evolution of Reaction Norms for Age and Size at Life-History Transitions. <i>American Naturalist</i> , 2002, 159, 338-350.	2.1	275
119	The Evolution of Virulence in Vector-Borne and Directly Transmitted Parasites. <i>Theoretical Population Biology</i> , 2002, 62, 199-213.	1.1	44
120	On the evolution of virulence and the relationship between various measures of mortality. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2002, 269, 1317-1323.	2.6	145
121	Virulence evolution via host exploitation and toxin production in spore-producing pathogens. <i>Ecology Letters</i> , 2002, 5, 471-476.	6.4	82
122	THE ROLE OF SIZE-SPECIFIC PREDATION IN THE EVOLUTION AND DIVERSIFICATION OF PREY LIFE HISTORIES. <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 877-887.	2.3	78
123	What can Invasion Analyses Tell us about Evolution under Stochasticity in Finite Populations?. <i>Selection</i> , 2002, 2, 2-15.	0.8	29
124	Optimal Size and Number of Propagules: Allowance for Discrete Stages and Effects of Maternal Size on Reproductive Output and Offspring Fitness. <i>American Naturalist</i> , 2001, 157, 387-407.	2.1	181
125	Population structure inhibits evolutionary diversification under competition for resources. <i>Genetica</i> , 2001, 112/113, 71-86.	1.1	46
126	PARASITE TRANSMISSION MODES AND THE EVOLUTION OF VIRULENCE. <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 2389-2400.	2.3	129

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127	Interactions between sources of mortality and the evolution of parasite virulence. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2001, 268, 2331-2337.	2.6	52
128	POPULATION MIXING AND THE ADAPTIVE DIVERGENCE OF QUANTITATIVE TRAITS IN DISCRETE POPULATIONS: A THEORETICAL FRAMEWORK FOR EMPIRICAL TESTS. <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 459-466.	2.3	23
129	Population structure inhibits evolutionary diversification under competition for resources. <i>Contemporary Issues in Genetics and Evolution</i> , 2001, , 71-86.	0.9	2
130	SEXUAL SELECTION AND THE EVOLUTION OF COSTLY FEMALE PREFERENCES: SPATIAL EFFECTS. <i>Evolution; International Journal of Organic Evolution</i> , 2000, 54, 715-730.	2.3	83
131	Questioning species realities. <i>Conservation Genetics</i> , 2000, 1, 67-76.	1.5	100
132	Competition and the Effect of Spatial Resource Heterogeneity on Evolutionary Diversification. <i>American Naturalist</i> , 2000, 155, 790-803.	2.1	94
133	A Generalization of Pontryagin's Maximum Principle for Dynamic Evolutionary Games among Relatives. <i>Theoretical Population Biology</i> , 2000, 57, 339-356.	1.1	22
134	Unifying Genetic and Game Theoretic Models of Kin Selection for Continuous Traits. <i>Journal of Theoretical Biology</i> , 1998, 194, 391-407.	1.7	52
135	The Evolution of Temporal Patterns of Selfishness, Altruism, and Group Cohesion. <i>American Naturalist</i> , 1998, 152, 102-113.	2.1	18
136	Von Bertalanffy's Growth Equation Should Not Be Used to Model Age and Size at Maturity. <i>American Naturalist</i> , 1997, 149, 381-393.	2.1	179
137	A TIME COMMITMENT HYPOTHESIS FOR SIZE-DEPENDENT GENDER ALLOCATION. <i>Evolution; International Journal of Organic Evolution</i> , 1997, 51, 988-993.	2.3	27
138	Hamilton's rule meets the Hamiltonian: kin selection on dynamic characters. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1997, 264, 639-644.	2.6	26
139	Evolutionary stability under the replicator and the gradient dynamics. <i>Evolutionary Ecology</i> , 1997, 11, 579-590.	1.2	51
140	The effect of behavioural and morphological plasticity on foraging efficiency in the threespine stickleback (<i>Gasterosteus</i> sp.). <i>Oecologia</i> , 1996, 108, 380-388.	2.0	121
141	The fitness of hybrids. <i>Trends in Ecology and Evolution</i> , 1995, 10, 288.	8.7	10
142	A Comparison of Two Sticklebacks. <i>Evolution; International Journal of Organic Evolution</i> , 1994, 48, 1723.	2.3	96
143	A COMPARISON OF TWO STICKLEBACKS. <i>Evolution; International Journal of Organic Evolution</i> , 1994, 48, 1723-1734.	2.3	149