

Jonathan Dushoff

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

3,203
citations

31
h-index

56
g-index

91
ext. papers

4,452
ext. citations

6.8
avg, IF

5.79
L-index

#	Paper	IF	Citations
80	Increased risk of SARS-CoV-2 reinfection associated with emergence of Omicron in South Africa.. <i>Science</i> , 2022 , 376, eabn4947	33.3	89
79	Many bee species, including rare species, are important for function of entire plant-pollinator networks.. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022 , 289, 20212689	4.4	1
78	The need for linked genomic surveillance of SARS-CoV-2.. <i>Canada Communicable Disease Report</i> , 2022 , 48, 131-139	3.1	1
77	Testing and Isolation Efficacy: Insights from a Simple Epidemic Model.. <i>Bulletin of Mathematical Biology</i> , 2022 , 84, 66	2.1	0
76	Forward-looking serial intervals correctly link epidemic growth to reproduction numbers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	21
75	Speed and strength of an epidemic intervention. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021 , 288, 20201556	4.4	7
74	A conceptual guide to measuring species diversity. <i>Oikos</i> , 2021 , 130, 321-338	4	40
73	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	6.3	79
72	Transmission dynamics are crucial to COVID-19 vaccination policy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3
71	Does Counting Different Life Stages Impact Estimates for Extinction Probabilities for Tsetse (<i>Glossina</i> spp)?.. <i>Bulletin of Mathematical Biology</i> , 2021 , 83, 94	2.1	
70	Modeling shield immunity to reduce COVID-19 epidemic spread. <i>Nature Medicine</i> , 2020 , 26, 849-854	50.5	135
69	Calibration of individual-based models to epidemiological data: A systematic review. <i>PLoS Computational Biology</i> , 2020 , 16, e1007893	5	9
68	The time scale of asymptomatic transmission affects estimates of epidemic potential in the COVID-19 outbreak. <i>Epidemics</i> , 2020 , 31, 100392	5.1	82
67	Awareness-driven behavior changes can shift the shape of epidemics away from peaks and toward plateaus, shoulders, and oscillations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 32764-32771	11.5	49
66	The time scale of asymptomatic transmission affects estimates of epidemic potential in the COVID-19 outbreak 2020 ,		18
65	Potential roles of social distancing in mitigating the spread of coronavirus disease 2019 (COVID-19) in South Korea 2020 ,		20
64	How much do rare and crop-pollinating bees overlap in identity and flower preferences?. <i>Journal of Applied Ecology</i> , 2020 , 57, 413-423	5.8	5

63	Acceleration of plague outbreaks in the second pandemic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 27703-27711	11.5	7
62	Inferring generation-interval distributions from contact-tracing data. <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20190719	4.1	16
61	Reconciling early-outbreak estimates of the basic reproductive number and its uncertainty: framework and applications to the novel coronavirus (SARS-CoV-2) outbreak. <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20200144	4.1	71
60	Calibration of individual-based models to epidemiological data: A systematic review 2020 , 16, e1007893		
59	Calibration of individual-based models to epidemiological data: A systematic review 2020 , 16, e1007893		
58	Calibration of individual-based models to epidemiological data: A systematic review 2020 , 16, e1007893		
57	Calibration of individual-based models to epidemiological data: A systematic review 2020 , 16, e1007893		
56	Calibration of individual-based models to epidemiological data: A systematic review 2020 , 16, e1007893		
55	Calibration of individual-based models to epidemiological data: A systematic review 2020 , 16, e1007893		
54	I can see clearly now: Reinterpreting statistical significance. <i>Methods in Ecology and Evolution</i> , 2019 , 10, 756-759	7.7	60
53	Male and female bees show large differences in floral preference. <i>PLoS ONE</i> , 2019 , 14, e0214909	3.7	23
52	A practical generation-interval-based approach to inferring the strength of epidemics from their speed. <i>Epidemics</i> , 2019 , 27, 12-18	5.1	35
51	Two approaches to forecast Ebola synthetic epidemics. <i>Epidemics</i> , 2018 , 22, 36-42	5.1	9
50	Human ectoparasite transmission of the plague during the Second Pandemic is only weakly supported by proposed mathematical models. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E7892-E7893	11.5	3
49	Equivalence of the Erlang-Distributed SEIR Epidemic Model and the Renewal Equation. <i>SIAM Journal on Applied Mathematics</i> , 2018 , 78, 3258-3278	1.8	45
48	A double-edged sword: does highly active antiretroviral therapy contribute to syphilis incidence by impairing immunity to ?. <i>Sexually Transmitted Infections</i> , 2017 , 93, 374-378	2.8	25
47	Stochasticity and the limits to confidence when estimating R0 of Ebola and other emerging infectious diseases. <i>Journal of Theoretical Biology</i> , 2016 , 408, 145-154	2.3	10
46	The Role of Floral Density in Determining Bee Foraging Behavior: A Natural Experiment. <i>Natural Areas Journal</i> , 2016 , 36, 392-399	0.8	6

45	The Hayflick Limit May Determine the Effective Clonal Diversity of Naive T Cells. <i>Journal of Immunology</i> , 2016 , 196, 4999-5004	5.3	9
44	Modeling post-death transmission of Ebola: challenges for inference and opportunities for control. <i>Scientific Reports</i> , 2015 , 5, 8751	4.9	75
43	Intrinsic and realized generation intervals in infectious-disease transmission. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015 , 282, 20152026	4.4	41
42	Ebola control: effect of asymptomatic infection and acquired immunity. <i>Lancet, The</i> , 2014 , 384, 1499-5004	4.0	63
41	Analytic calculation of finite-population reproductive numbers for direct- and vector-transmitted diseases with homogeneous mixing. <i>Bulletin of Mathematical Biology</i> , 2014 , 76, 1143-54	2.1	2
40	Ebola virus vaccine trials: the ethical mandate for a therapeutic safety net. <i>BMJ, The</i> , 2014 , 349, g7518	5.9	10
39	Estimating initial epidemic growth rates. <i>Bulletin of Mathematical Biology</i> , 2014 , 76, 245-60	2.1	75
38	Effects of mixing in threshold models of social behavior. <i>Physical Review E</i> , 2013 , 88, 012816	2.4	6
37	Population-level effects of clinical immunity to malaria. <i>BMC Infectious Diseases</i> , 2013 , 13, 428	4	15
36	Robust estimation of microbial diversity in theory and in practice. <i>ISME Journal</i> , 2013 , 7, 1092-101	11.9	231
35	Native bees buffer the negative impact of climate warming on honey bee pollination of watermelon crops. <i>Global Change Biology</i> , 2013 , 19, 3103-10	11.4	95
34	A non-negative matrix factorization framework for identifying modular patterns in metagenomic profile data. <i>Journal of Mathematical Biology</i> , 2012 , 64, 697-711	2	26
33	Effects of school closure on incidence of pandemic influenza in Alberta, Canada. <i>Annals of Internal Medicine</i> , 2012 , 156, 173-81	8	138
32	Functional biogeography of ocean microbes revealed through non-negative matrix factorization. <i>PLoS ONE</i> , 2012 , 7, e43866	3.7	32
31	The odds of duplicate gene persistence after polyploidization. <i>BMC Genomics</i> , 2011 , 12, 599	4.5	22
30	Modeling the population-level effects of male circumcision as an HIV-preventive measure: a gendered perspective. <i>PLoS ONE</i> , 2011 , 6, e28608	3.7	17
29	Finding Attractors on a Folding Energy Landscape 2011 , 572-582		
28	Fluctuation domains in adaptive evolution. <i>Theoretical Population Biology</i> , 2010 , 77, 6-13	1.2	5

27	Transmission dynamics and prospects for the elimination of canine rabies. <i>PLoS Biology</i> , 2009 , 7, e53	9.7	300
26	On the accessibility of adaptive phenotypes of a bacterial metabolic network. <i>PLoS Computational Biology</i> , 2009 , 5, e1000472	5	11
25	Reconstructing influenza incidence by deconvolution of daily mortality time series. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 21825-9	11.5	52
24	On the use of hemagglutination-inhibition for influenza surveillance: surveillance data are predictive of influenza vaccine effectiveness. <i>Vaccine</i> , 2009 , 27, 2447-52	4.1	34
23	Host-pathogen interactions, insect outbreaks, and natural selection for disease resistance. <i>American Naturalist</i> , 2008 , 172, 829-42	3.7	54
22	Alternative stable states in host-phage dynamics. <i>Theoretical Ecology</i> , 2008 , 1, 13-19	1.6	72
21	Vaccinating to protect a vulnerable subpopulation. <i>PLoS Medicine</i> , 2007 , 4, e174	11.6	61
20	Mortality due to influenza in the United States--an annualized regression approach using multiple-cause mortality data. <i>American Journal of Epidemiology</i> , 2006 , 163, 181-7	3.8	207
19	Agricultural antibiotics and human health. <i>PLoS Medicine</i> , 2005 , 2, e232	11.6	64
18	Mangrove filtration of anthropogenic nutrients in the Rio Coco Solo, Panama. <i>Management of Environmental Quality</i> , 2004 , 15, 131-142	3.6	19
17	Evolution and persistence of influenza A and other diseases. <i>Mathematical Biosciences</i> , 2004 , 188, 17-28	3.9	41
16	Ecology and evolution of the flu. <i>Trends in Ecology and Evolution</i> , 2002 , 17, 334-340	10.9	196
15	Carrying capacity and demographic stochasticity: scaling behavior of the stochastic logistic model. <i>Theoretical Population Biology</i> , 2000 , 57, 59-65	1.2	13
14	Host heterogeneity and disease endemicity: a moment-based approach. <i>Theoretical Population Biology</i> , 1999 , 56, 325-35	1.2	19
13	Incorporating immunological ideas in epidemiological models. <i>Journal of Theoretical Biology</i> , 1996 , 180, 181-7	2.3	51
12	The effects of population heterogeneity on disease invasion. <i>Mathematical Biosciences</i> , 1995 , 128, 25-40	3.9	61
11	Bounding the levels of transmissibility & immune evasion of the Omicron variant in South Africa		15
10	Speed and strength of an epidemic intervention		1

9	Increased risk of SARS-CoV-2 reinfection associated with emergence of the Omicron variant in South Africa	143
8	A practical generation interval-based approach to inferring the strength of epidemics from their speed	1
7	Inferring generation-interval distributions from contact-tracing data	1
6	Quantifying ethical tradeoffs for vaccine efficacy trials during severe epidemics	2
5	Reconciling early-outbreak estimates of the basic reproductive number and its uncertainty: framework and applications to the novel coronavirus (SARS-CoV-2) outbreak	30
4	Cohort-based approach to understanding the roles of generation and serial intervals in shaping epidemiological dynamics	5
3	Equivalence of the Erlang Seir Epidemic Model and the Renewal Equation	5
2	Male and female bees show large differences in floral preference	1
1	Roles of generation-interval distributions in shaping relative epidemic strength, speed, and control of new SARS-CoV-2 variants	11