

Jonathan Dushoff

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7423196/jonathan-dushoff-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Transmission dynamics and prospects for the elimination of canine rabies. <i>PLoS Biology</i> , 2009 , 7, e53	9.7	300
79	Robust estimation of microbial diversity in theory and in practice. <i>ISME Journal</i> , 2013 , 7, 1092-101	11.9	231
78	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
77	Ecology and evolution of the flu. <i>Trends in Ecology and Evolution</i> , 2002 , 17, 334-340	10.9	196
76	Increased risk of SARS-CoV-2 reinfection associated with emergence of the Omicron variant in South Africa		143
75	Effects of school closure on incidence of pandemic influenza in Alberta, Canada. <i>Annals of Internal Medicine</i> , 2012 , 156, 173-81	8	138
74	Modeling shield immunity to reduce COVID-19 epidemic spread. <i>Nature Medicine</i> , 2020 , 26, 849-854	50.5	135
73	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
72	Increased risk of SARS-CoV-2 reinfection associated with emergence of Omicron in South Africa.. <i>Science</i> , 2022 , 376, eabn4947	33.3	89
71	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
70	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
69	Modeling post-death transmission of Ebola: challenges for inference and opportunities for control. <i>Scientific Reports</i> , 2015 , 5, 8751	4.9	75
68	Estimating initial epidemic growth rates. <i>Bulletin of Mathematical Biology</i> , 2014 , 76, 245-60	2.1	75
67	Alternative stable states in host-phage dynamics. <i>Theoretical Ecology</i> , 2008 , 1, 13-19	1.6	72
66	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
65	Agricultural antibiotics and human health. <i>PLoS Medicine</i> , 2005 , 2, e232	11.6	64
64	Ebola control: effect of asymptomatic infection and acquired immunity. <i>Lancet, The</i> , 2014 , 384, 1499-500	10	63

63	The effects of population heterogeneity on disease invasion. <i>Mathematical Biosciences</i> , 1995 , 128, 25-40	3.9	61
62	Vaccinating to protect a vulnerable subpopulation. <i>PLoS Medicine</i> , 2007 , 4, e174	11.6	61
61	I can see clearly now: Reinterpreting statistical significance. <i>Methods in Ecology and Evolution</i> , 2019 , 10, 756-759	7.7	60
60	Host-pathogen interactions, insect outbreaks, and natural selection for disease resistance. <i>American Naturalist</i> , 2008 , 172, 829-42	3.7	54
59	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
58	Incorporating immunological ideas in epidemiological models. <i>Journal of Theoretical Biology</i> , 1996 , 180, 181-7	2.3	51
57	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
56	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
55	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
54	Evolution and persistence of influenza A and other diseases. <i>Mathematical Biosciences</i> , 2004 , 188, 17-28	3.9	41
53	A conceptual guide to measuring species diversity. <i>Oikos</i> , 2021 , 130, 321-338	4	40
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	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
50	Functional biogeography of ocean microbes revealed through non-negative matrix factorization. <i>PLoS ONE</i> , 2012 , 7, e43866	3.7	32
49	Reconciling early-outbreak estimates of the basic reproductive number and its uncertainty: framework and applications to the novel coronavirus (SARS-CoV-2) outbreak		30
48	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
47	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
46	Male and female bees show large differences in floral preference. <i>PLoS ONE</i> , 2019 , 14, e0214909	3.7	23

45	The odds of duplicate gene persistence after polyploidization. <i>BMC Genomics</i> , 2011 , 12, 599	4.5	22
44	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
43	Potential roles of social distancing in mitigating the spread of coronavirus disease 2019 (COVID-19) in South Korea 2020 ,		20
42	Mangrove filtration of anthropogenic nutrients in the Rio Coco Solo, Panama. <i>Management of Environmental Quality</i> , 2004 , 15, 131-142	3.6	19
41	Host heterogeneity and disease endemicity: a moment-based approach. <i>Theoretical Population Biology</i> , 1999 , 56, 325-35	1.2	19
40	The time scale of asymptomatic transmission affects estimates of epidemic potential in the COVID-19 outbreak 2020 ,		18
39	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
38	Inferring generation-interval distributions from contact-tracing data. <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20190719	4.1	16
37	Population-level effects of clinical immunity to malaria. <i>BMC Infectious Diseases</i> , 2013 , 13, 428	4	15
36	Bounding the levels of transmissibility & immune evasion of the Omicron variant in South Africa		15
35	Carrying capacity and demographic stochasticity: scaling behavior of the stochastic logistic model. <i>Theoretical Population Biology</i> , 2000 , 57, 59-65	1.2	13
34	On the accessibility of adaptive phenotypes of a bacterial metabolic network. <i>PLoS Computational Biology</i> , 2009 , 5, e1000472	5	11
33	Roles of generation-interval distributions in shaping relative epidemic strength, speed, and control of new SARS-CoV-2 variants		11
32	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
31	Ebola virus vaccine trials: the ethical mandate for a therapeutic safety net. <i>BMJ, The</i> , 2014 , 349, g7518	5.9	10
30	Calibration of individual-based models to epidemiological data: A systematic review. <i>PLoS Computational Biology</i> , 2020 , 16, e1007893	5	9
29	Two approaches to forecast Ebola synthetic epidemics. <i>Epidemics</i> , 2018 , 22, 36-42	5.1	9
28	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

27	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
26	Speed and strength of an epidemic intervention. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021 , 288, 20201556	4.4	7
25	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
24	Effects of mixing in threshold models of social behavior. <i>Physical Review E</i> , 2013 , 88, 012816	2.4	6
23	Fluctuation domains in adaptive evolution. <i>Theoretical Population Biology</i> , 2010 , 77, 6-13	1.2	5
22	Cohort-based approach to understanding the roles of generation and serial intervals in shaping epidemiological dynamics		5
21	Equivalence of the Erlang Seir Epidemic Model and the Renewal Equation		5
20	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
19	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
18	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
17	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
16	Quantifying ethical tradeoffs for vaccine efficacy trials during severe epidemics		2
15	Speed and strength of an epidemic intervention		1
14	A practical generation interval-based approach to inferring the strength of epidemics from their speed		1
13	Inferring generation-interval distributions from contact-tracing data		1
12	Male and female bees show large differences in floral preference		1
11	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
10	The need for linked genomic surveillance of SARS-CoV-2.. <i>Canada Communicable Disease Report</i> , 2022 , 48, 131-139	3.1	1

- 9 Testing and Isolation Efficacy: Insights from a Simple Epidemic Model.. *Bulletin of Mathematical Biology*, **2022**, 84, 66 2.1 0
- 8 Finding Attractors on a Folding Energy Landscape **2011**, 572-582
- 7 Does Counting Different Life Stages Impact Estimates for Extinction Probabilities for Tsetse (Glossina spp)?.. *Bulletin of Mathematical Biology*, **2021**, 83, 94 2.1
- 6 Calibration of individual-based models to epidemiological data: A systematic review **2020**, 16, e1007893
- 5 Calibration of individual-based models to epidemiological data: A systematic review **2020**, 16, e1007893
- 4 Calibration of individual-based models to epidemiological data: A systematic review **2020**, 16, e1007893
- 3 Calibration of individual-based models to epidemiological data: A systematic review **2020**, 16, e1007893
- 2 Calibration of individual-based models to epidemiological data: A systematic review **2020**, 16, e1007893
- 1 Calibration of individual-based models to epidemiological data: A systematic review **2020**, 16, e1007893