

# Jonathan Dushoff

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

6,544  
citations

117625

34  
h-index

233421

45  
g-index

47  
all docs

47  
docs citations

47  
times ranked

7658  
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimating the Global Burden of Endemic Canine Rabies. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003709.	3.0	1,008
2	Native bees provide insurance against ongoing honey bee losses. <i>Ecology Letters</i> , 2007, 10, 1105-1113.	6.4	401
3	Transmission Dynamics and Prospects for the Elimination of Canine Rabies. <i>PLoS Biology</i> , 2009, 7, e1000053.	5.6	374
4	Robust estimation of microbial diversity in theory and in practice. <i>ISME Journal</i> , 2013, 7, 1092-1101.	9.8	321
5	Dynamical resonance can account for seasonality of influenza epidemics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 16915-16916.	7.1	311
6	The Risk of a Mosquito-Borne Infection in a Heterogeneous Environment. <i>PLoS Biology</i> , 2004, 2, e368.	5.6	269
7	A conceptual guide to measuring species diversity. <i>Oikos</i> , 2021, 130, 321-338.	2.7	246
8	Ecology and evolution of the flu. <i>Trends in Ecology and Evolution</i> , 2002, 17, 334-340.	8.7	233
9	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, 181-187.	3.4	230
10	The combined effects of pathogens and predators on insect outbreaks. <i>Nature</i> , 2004, 430, 341-345.	27.8	222
11	Network metrics reveal differences in social organization between two fission–fusion species, <i>Grevy's zebra</i> and <i>onager</i> . <i>Oecologia</i> , 2007, 151, 140-149.	2.0	210
12	Hemagglutinin sequence clusters and the antigenic evolution of influenza A virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 6263-6268.	7.1	205
13	Prevalence of Epistasis in the Evolution of Influenza A Surface Proteins. <i>PLoS Genetics</i> , 2011, 7, e1001301.	3.5	182
14	Rabies Exposures, Post-Exposure Prophylaxis and Deaths in a Region of Endemic Canine Rabies. <i>PLoS Neglected Tropical Diseases</i> , 2008, 2, e339.	3.0	176
15	The Genesis and Spread of Reassortment Human Influenza A/H3N2 Viruses Conferring Adamantane Resistance. <i>Molecular Biology and Evolution</i> , 2007, 24, 1811-1820.	8.9	174
16	Exploring reservoir dynamics: a case study of rabies in the Serengeti ecosystem. <i>Journal of Applied Ecology</i> , 2008, 45, 1246-1257.	4.0	166
17	Effects of School Closure on Incidence of Pandemic Influenza in Alberta, Canada. <i>Annals of Internal Medicine</i> , 2012, 156, 173.	3.9	166
18	Codon bias and frequency-dependent selection on the hemagglutinin epitopes of influenza A virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 7152-7157.	7.1	154

#	ARTICLE	IF	CITATIONS
19	Pathogen-Driven Outbreaks in Forest Defoliators Revisited: Building Models from Experimental Data. <i>American Naturalist</i> , 2000, 156, 105-120.	2.1	135
20	Synchronous cycles of domestic dog rabies in sub-Saharan Africa and the impact of control efforts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 7717-7722.	7.1	132
21	Designing Programs for Eliminating Canine Rabies from Islands: Bali, Indonesia as a Case Study. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2372.	3.0	128
22	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
23	Testing Simple Indices of Habitat Proximity. <i>American Naturalist</i> , 2005, 165, 707-717.	2.1	94
24	Detecting selection using a single genome sequence of <i>M. tuberculosis</i> and <i>P. falciparum</i> . <i>Nature</i> , 2004, 428, 942-945.	27.8	86
25	Vaccinating to Protect a Vulnerable Subpopulation. <i>PLoS Medicine</i> , 2007, 4, e174.	8.4	72
26	Host-Pathogen Interactions, Insect Outbreaks, and Natural Selection for Disease Resistance. <i>American Naturalist</i> , 2008, 172, 829-842.	2.1	69
27	On State-Space Reduction in Multi-Strain Pathogen Models, with an Application to Antigenic Drift in Influenza A. <i>PLoS Computational Biology</i> , 2007, 3, e159.	3.2	50
28	Age-specific mortality risk from pandemic influenza. <i>Journal of Theoretical Biology</i> , 2011, 288, 29-34.	1.7	50
29	Evolution and persistence of influenza A and other diseases. <i>Mathematical Biosciences</i> , 2004, 188, 17-28.	1.9	47
30	Male and female bees show large differences in floral preference. <i>PLoS ONE</i> , 2019, 14, e0214909.	2.5	45
31	On the use of hemagglutination-inhibition for influenza surveillance: Surveillance data are predictive of influenza vaccine effectiveness. <i>Vaccine</i> , 2009, 27, 2447-2452.	3.8	44
32	Mechanistic modelling of the three waves of the 1918 influenza pandemic. <i>Theoretical Ecology</i> , 2011, 4, 283-288.	1.0	41
33	Codon Usage and Selection on Proteins. <i>Journal of Molecular Evolution</i> , 2006, 63, 635-653.	1.8	40
34	Patterns of spread of influenza A in Canada. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20131174.	2.6	32
35	Natural Selection for Nucleotide Usage at Synonymous and Nonsynonymous Sites in Influenza A Virus Genes. <i>Journal of Virology</i> , 2008, 82, 4938-4945.	3.4	25
36	Avoiding spurious findings of nonrandom social structure in association data. <i>Animal Behaviour</i> , 2009, 77, 1381-1385.	1.9	24

#	ARTICLE	IF	CITATIONS
37	Directionality in the evolution of influenza A haemagglutinin. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 2455-2464.	2.6	21
38	US flu mortality estimates are based on solid science. BMJ: British Medical Journal, 2006, 332, 177.2-178.	2.3	18
39	Eco-Evolutionary Theory and Insect Outbreaks. American Naturalist, 2017, 189, 616-629.	2.1	13
40	Acceleration of plague outbreaks in the second pandemic. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27703-27711.	7.1	12
41	On the Accessibility of Adaptive Phenotypes of a Bacterial Metabolic Network. PLoS Computational Biology, 2009, 5, e1000472.	3.2	11
42	Estimating Selection Pressures from Limited Comparative Data. Molecular Biology and Evolution, 2006, 23, 1457-1459.	8.9	8
43	The risk of incomplete personal protection coverage in vector-borne disease. Journal of the Royal Society Interface, 2016, 13, 20150666.	3.4	7
44	Patterns of seasonal and pandemic influenza-associated health care and mortality in Ontario, Canada. BMC Public Health, 2019, 19, 1237.	2.9	2