

C Jessica E Metcalf

List of Publications by Year in descending order

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Version: 2024-02-01

185
papers

11,265
citations

39113

52
h-index

48101

92
g-index

219
all docs

219
docs citations

219
times ranked

17350
citing authors

#	ARTICLE	IF	CITATIONS
1	Infectious disease in an era of global change. <i>Nature Reviews Microbiology</i> , 2022, 20, 193-205.	13.6	509
2	Modeling infectious disease dynamics in the complex landscape of global health. <i>Science</i> , 2015, 347, aaa4339.	6.0	492
3	Disease and healthcare burden of COVID-19 in the United States. <i>Nature Medicine</i> , 2020, 26, 1212-1217.	15.2	358
4	The impact of COVID-19 nonpharmaceutical interventions on the future dynamics of endemic infections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 30547-30553.	3.3	325
5	Evolutionary bet-hedging in the real world: empirical evidence and challenges revealed by plants. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 3055-3064.	1.2	322
6	Long-term measles-induced immunomodulation increases overall childhood infectious disease mortality. <i>Science</i> , 2015, 348, 694-699.	6.0	319
7	Assessing the global threat from Zika virus. <i>Science</i> , 2016, 353, aaf8160.	6.0	311
8	Aggregated mobility data could help fight COVID-19. <i>Science</i> , 2020, 368, 145-146.	6.0	303
9	Urbanization and humidity shape the intensity of influenza epidemics in U.S. cities. <i>Science</i> , 2018, 362, 75-79.	6.0	272
10	Susceptible supply limits the role of climate in the early SARS-CoV-2 pandemic. <i>Science</i> , 2020, 369, 315-319.	6.0	253
11	The use of mobile phone data to inform analysis of COVID-19 pandemic epidemiology. <i>Nature Communications</i> , 2020, 11, 4961.	5.8	246
12	Advancing population ecology with integral projection models: a practical guide. <i>Methods in Ecology and Evolution</i> , 2014, 5, 99-110.	2.2	231
13	The microbiome beyond the horizon of ecological and evolutionary theory. <i>Nature Ecology and Evolution</i> , 2017, 1, 1606-1615.	3.4	216
14	Use of serological surveys to generate key insights into the changing global landscape of infectious disease. <i>Lancet, The</i> , 2016, 388, 728-730.	6.3	213
15	Immune life history, vaccination, and the dynamics of SARS-CoV-2 over the next 5 years. <i>Science</i> , 2020, 370, 811-818.	6.0	210
16	Why evolutionary biologists should be demographers. <i>Trends in Ecology and Evolution</i> , 2007, 22, 205-212.	4.2	199
17	Epidemiological and evolutionary considerations of SARS-CoV-2 vaccine dosing regimes. <i>Science</i> , 2021, 372, 363-370.	6.0	185
18	Reduced vaccination and the risk of measles and other childhood infections post-Ebola. <i>Science</i> , 2015, 347, 1240-1242.	6.0	169

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19	Household COVID-19 risk and in-person schooling. <i>Science</i> , 2021, 372, 1092-1097.	6.0	162
20	Connecting Mobility to Infectious Diseases: The Promise and Limits of Mobile Phone Data. <i>Journal of Infectious Diseases</i> , 2016, 214, S414-S420.	1.9	158
21	Spatial and temporal dynamics of superspreading events in the 2014–2015 West Africa Ebola epidemic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2337-2342.	3.3	151
22	Successive passaging of a plant-associated microbiome reveals robust habitat and host genotype-dependent selection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1148-1159.	3.3	146
23	Thirteen challenges in modelling plant diseases. <i>Epidemics</i> , 2015, 10, 6-10.	1.5	145
24	Quantifying seasonal population fluxes driving rubella transmission dynamics using mobile phone data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11114-11119.	3.3	124
25	Environmental Drivers of the Spatiotemporal Dynamics of Respiratory Syncytial Virus in the United States. <i>PLoS Pathogens</i> , 2015, 11, e1004591.	2.1	119
26	Which interventions work best in a pandemic?. <i>Science</i> , 2020, 368, 1063-1065.	6.0	114
27	Opportunities and challenges in modeling emerging infectious diseases. <i>Science</i> , 2017, 357, 149-152.	6.0	113
28	Hand, Foot, and Mouth Disease in China: Modeling Epidemic Dynamics of Enterovirus Serotypes and Implications for Vaccination. <i>PLoS Medicine</i> , 2016, 13, e1001958.	3.9	106
29	Towards the endgame and beyond: complexities and challenges for the elimination of infectious diseases. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120137.	1.8	103
30	Understanding Herd Immunity. <i>Trends in Immunology</i> , 2015, 36, 753-755.	2.9	102
31	Modeling the Influence of Genetic and Environmental Variation on the Expression of Plant Life Cycles across Landscapes. <i>American Naturalist</i> , 2015, 185, 212-227.	1.0	94
32	<i>IPMpack</i> : an R package for integral projection models. <i>Methods in Ecology and Evolution</i> , 2013, 4, 195-200.	2.2	93
33	Identifying climate drivers of infectious disease dynamics: recent advances and challenges ahead. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20170901.	1.2	91
34	Seasonality and comparative dynamics of six childhood infections in pre-vaccination Copenhagen. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 4111-4118.	1.2	90
35	Partitioning Regulatory Mechanisms of Within-Host Malaria Dynamics Using the Effective Propagation Number. <i>Science</i> , 2011, 333, 984-988.	6.0	86
36	The Cinderella syndrome: why do malaria-infected cells burst at midnight?. <i>Trends in Parasitology</i> , 2013, 29, 10-16.	1.5	83

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37	Mathematical models to guide pandemic response. <i>Science</i> , 2020, 369, 368-369.	6.0	83
38	Is life's history buffering or lability adaptive in stochastic environments?. <i>Oikos</i> , 2009, 118, 972-980.	1.2	82
39	Mapping vaccination coverage to explore the effects of delivery mechanisms and inform vaccination strategies. <i>Nature Communications</i> , 2019, 10, 1633.	5.8	80
40	Vaccine nationalism and the dynamics and control of SARS-CoV-2. <i>Science</i> , 2021, 373, eabj7364.	6.0	80
41	The path of least resistance: aggressive or moderate treatment?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140566.	1.2	79
42	High resolution age-structured mapping of childhood vaccination coverage in low and middle income countries. <i>Vaccine</i> , 2018, 36, 1583-1591.	1.7	78
43	Epidemic dynamics of respiratory syncytial virus in current and future climates. <i>Nature Communications</i> , 2019, 10, 5512.	5.8	78
44	Variation in SARS-CoV-2 outbreaks across sub-Saharan Africa. <i>Nature Medicine</i> , 2021, 27, 447-453.	15.2	77
45	Multinational patterns of seasonal asymmetry in human movement influence infectious disease dynamics. <i>Nature Communications</i> , 2017, 8, 2069.	5.8	73
46	The potential effect of improved provision of rabies post-exposure prophylaxis in Gavi-eligible countries: a modelling study. <i>Lancet Infectious Diseases</i> , The, 2019, 19, 102-111.	4.6	72
47	Seroepidemiologic Study Designs for Determining SARS-COV-2 Transmission and Immunity. <i>Emerging Infectious Diseases</i> , 2020, 26, 1978-1986.	2.0	71
48	Evolution of Delayed Reproduction in Uncertain Environments: A Life's History Perspective. <i>American Naturalist</i> , 2008, 172, 797-805.	1.0	68
49	A time to grow and a time to die: a new way to analyze the dynamics of size, light, age, and death of tropical trees. <i>Ecology</i> , 2009, 90, 2766-2778.	1.5	67
50	Forecasting Epidemiological and Evolutionary Dynamics of Infectious Diseases. <i>Trends in Ecology and Evolution</i> , 2016, 31, 776-788.	4.2	66
51	Impact of birth rate, seasonality and transmission rate on minimum levels of coverage needed for rubella vaccination. <i>Epidemiology and Infection</i> , 2012, 140, 2290-2301.	1.0	62
52	Predicting the evolutionary dynamics of seasonal adaptation to novel climates in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E2812-21.	3.3	62
53	Estimating Drivers of Autochthonous Transmission of Chikungunya Virus in its Invasion of the Americas. <i>PLOS Currents</i> , 2015, 7, .	1.4	62
54	A signature of tree health? Shifts in the microbiome and the ecological drivers of horse chestnut bleeding canker disease. <i>New Phytologist</i> , 2017, 215, 737-746.	3.5	61

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55	The geography of measles vaccination in the African Great Lakes region. <i>Nature Communications</i> , 2017, 8, 15585.	5.8	60
56	Six challenges in modelling for public health policy. <i>Epidemics</i> , 2015, 10, 93-96.	1.5	59
57	Estimating SARS-CoV-2 seroprevalence and epidemiological parameters with uncertainty from serological surveys. <i>ELife</i> , 2021, 10, .	2.8	59
58	Evolution of flowering decisions in a stochastic, density-dependent environment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 10466-10470.	3.3	56
59	Measuring the Performance of Vaccination Programs Using Cross-Sectional Surveys: A Likelihood Framework and Retrospective Analysis. <i>PLoS Medicine</i> , 2011, 8, e1001110.	3.9	54
60	Characterizing the impact of spatial clustering of susceptibility for measles elimination. <i>Vaccine</i> , 2019, 37, 732-741.	1.7	54
61	Rubella metapopulation dynamics and importance of spatial coupling to the risk of congenital rubella syndrome in Peru. <i>Journal of the Royal Society Interface</i> , 2011, 8, 369-376.	1.5	52
62	A Global Immunological Observatory to meet a time of pandemics. <i>ELife</i> , 2020, 9, .	2.8	52
63	Transport networks and inequities in vaccination: remoteness shapes measles vaccine coverage and prospects for elimination across Africa. <i>Epidemiology and Infection</i> , 2015, 143, 1457-1466.	1.0	51
64	Lives saved with vaccination for 10 pathogens across 112 countries in a pre-COVID-19 world. <i>ELife</i> , 2021, 10, .	2.8	50
65	Persistent Chaos of Measles Epidemics in the Prevaccination United States Caused by a Small Change in Seasonal Transmission Patterns. <i>PLoS Computational Biology</i> , 2016, 12, e1004655.	1.5	49
66	Tree growth inference and prediction when the point of measurement changes: modelling around buttresses in tropical forests. <i>Journal of Tropical Ecology</i> , 2009, 25, 1-12.	0.5	47
67	Maximizing and evaluating the impact of test-trace-isolate programs: A modeling study. <i>PLoS Medicine</i> , 2021, 18, e1003585.	3.9	43
68	Plant neighborhood shapes diversity and reduces interspecific variation of the phyllosphere microbiome. <i>ISME Journal</i> , 2022, 16, 1376-1387.	4.4	43
69	The epidemiology of rubella in Mexico: seasonality, stochasticity and regional variation. <i>Epidemiology and Infection</i> , 2011, 139, 1029-1038.	1.0	41
70	The Evolution of Variance Control. <i>Trends in Ecology and Evolution</i> , 2020, 35, 22-33.	4.2	40
71	Five challenges in evolution and infectious diseases. <i>Epidemics</i> , 2015, 10, 40-44.	1.5	38
72	Growth-survival trade-offs and allometries in rosette-forming perennials. <i>Functional Ecology</i> , 2006, 20, 217-225.	1.7	37

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73	Environmental uncertainty, autocorrelation and the evolution of survival. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 2153-2160.	1.2	37
74	The potential impact of coinfection on antimicrobial chemotherapy and drug resistance. <i>Trends in Microbiology</i> , 2015, 23, 537-544.	3.5	36
75	Disentangling serology to elucidate henipa and filovirus transmission in Madagascar fruit bats. <i>Journal of Animal Ecology</i> , 2019, 88, 1001-1016.	1.3	36
76	Persistence in Epidemic Metapopulations: Quantifying the Rescue Effects for Measles, Mumps, Rubella and Whooping Cough. <i>PLoS ONE</i> , 2013, 8, e74696.	1.1	35
77	Six challenges in the eradication of infectious diseases. <i>Epidemics</i> , 2015, 10, 97-101.	1.5	35
78	Measles and the canonical path to elimination. <i>Science</i> , 2019, 364, 584-587.	6.0	35
79	Assessing the influence of climate on wintertime SARS-CoV-2 outbreaks. <i>Nature Communications</i> , 2021, 12, 846.	5.8	35
80	Life history in a model system: opening the black box with <i>Arabidopsis thaliana</i> . <i>Ecology Letters</i> , 2009, 12, 593-600.	3.0	33
81	Implications of spatially heterogeneous vaccination coverage for the risk of congenital rubella syndrome in South Africa. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20120756.	1.5	33
82	The effects of host age and spatial location on bacterial community composition in the English Oak tree (<i>Quercus robur</i>). <i>Environmental Microbiology Reports</i> , 2016, 8, 649-658.	1.0	33
83	Structured models of infectious disease: Inference with discrete data. <i>Theoretical Population Biology</i> , 2012, 82, 275-282.	0.5	32
84	A spatial regression model for the disaggregation of areal unit based data to high-resolution grids with application to vaccination coverage mapping. <i>Statistical Methods in Medical Research</i> , 2019, 28, 3226-3241.	0.7	32
85	Statistical modelling of annual variation for inference on stochastic population dynamics using Integral Projection Models. <i>Methods in Ecology and Evolution</i> , 2015, 6, 1007-1017.	2.2	31
86	Seven challenges in modeling vaccine preventable diseases. <i>Epidemics</i> , 2015, 10, 11-15.	1.5	31
87	Why leveraging sex differences in immune tradeoffs may illuminate the evolution of senescence. <i>Functional Ecology</i> , 2020, 34, 129-140.	1.7	31
88	Natural selection for imprecise vertical transmission in host-microbiota systems. <i>Nature Ecology and Evolution</i> , 2022, 6, 77-87.	3.4	31
89	Modelling the first dose of measles vaccination: the role of maternal immunity, demographic factors, and delivery systems. <i>Epidemiology and Infection</i> , 2011, 139, 265-274.	1.0	29
90	Impact on Epidemic Measles of Vaccination Campaigns Triggered by Disease Outbreaks or Serosurveys: A Modeling Study. <i>PLoS Medicine</i> , 2016, 13, e1002144.	3.9	29

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91	Schedule and magnitude of reproductive investment under immune trade-offs explains sex differences in immunity. <i>Nature Communications</i> , 2018, 9, 4391.	5.8	29
92	Negative Selection on BRCA1 Susceptibility Alleles Sheds Light on the Population Genetics of Late-Onset Diseases and Aging Theory. <i>PLoS ONE</i> , 2007, 2, e1206.	1.1	29
93	Estimating sources and sinks of malaria parasites in Madagascar. <i>Nature Communications</i> , 2018, 9, 3897.	5.8	28
94	Balancing Evidence and Uncertainty when Considering Rubella Vaccine Introduction. <i>PLoS ONE</i> , 2013, 8, e67639.	1.1	27
95	Epidemic dynamics, interactions and predictability of enteroviruses associated with hand, foot and mouth disease in Japan. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180507.	1.5	27
96	The duration of travel impacts the spatial dynamics of infectious diseases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 22572-22579.	3.3	27
97	Demographic buffering: titrating the effects of birth rate and imperfect immunity on epidemic dynamics. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20141245.	1.5	26
98	Opportunities and challenges of integral projection models for modelling host-parasite dynamics. <i>Journal of Animal Ecology</i> , 2016, 85, 343-355.	1.3	26
99	Using models to shape measles control and elimination strategies in low- and middle-income countries: A review of recent applications. <i>Vaccine</i> , 2020, 38, 979-992.	1.7	26
100	Overcoming data sparseness and parametric constraints in modeling of tree mortality: a new nonparametric Bayesian model. <i>Canadian Journal of Forest Research</i> , 2009, 39, 1677-1687.	0.8	25
101	Protective microbiomes can limit the evolution of host pathogen defense. <i>Evolution Letters</i> , 2019, 3, 534-543.	1.6	25
102	Bottom-up regulation of malaria population dynamics in mice co-infected with lung migratory nematodes. <i>Ecology Letters</i> , 2015, 18, 1387-1396.	3.0	24
103	Demographically framing trade-offs between sensitivity and specificity illuminates selection on immunity. <i>Nature Ecology and Evolution</i> , 2017, 1, 1766-1772.	3.4	24
104	Seasonal Population Movements and the Surveillance and Control of Infectious Diseases. <i>Trends in Parasitology</i> , 2017, 33, 10-20.	1.5	24
105	A cline in seed dormancy helps conserve the environment experienced during reproduction across the range of <i>Arabidopsis thaliana</i> . <i>American Journal of Botany</i> , 2016, 103, 47-59.	0.8	23
106	Healthcare utilization, provisioning of post-exposure prophylaxis, and estimation of human rabies burden in Madagascar. <i>Vaccine</i> , 2019, 37, A35-A44.	1.7	23
107	Transient sensitivities of non-indigenous shrub species indicate complicated invasion dynamics. <i>Biological Invasions</i> , 2008, 10, 833-846.	1.2	22
108	Revealing mechanisms underlying variation in malaria virulence: effective propagation and host control of uninfected red blood cell supply. <i>Journal of the Royal Society Interface</i> , 2012, 9, 2804-2813.	1.5	22

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109	Why Evolve Reliance on the Microbiome for Timing of Ontogeny?. <i>MBio</i> , 2019, 10, .	1.8	22
110	Avoiding the crowds: the evolution of plastic responses to seasonal cues in a densityâ€dependent world. <i>Journal of Ecology</i> , 2015, 103, 819-828.	1.9	21
111	Elucidating transmission dynamics and host-parasite-vector relationships for rodent-borne <i>Bartonella</i> spp. in Madagascar. <i>Epidemics</i> , 2017, 20, 56-66.	1.5	19
112	Dynamic response of airborne infections to climate change: predictions for varicella. <i>Climatic Change</i> , 2018, 148, 547-560.	1.7	19
113	Comparative dynamics, seasonality in transmission, and predictability of childhood infections in Mexico. <i>Epidemiology and Infection</i> , 2017, 145, 607-625.	1.0	18
114	Seasonal gaps in measles vaccination coverage in Madagascar. <i>Vaccine</i> , 2019, 37, 2511-2519.	1.7	18
115	Predictability in a highly stochastic system: final size of measles epidemics in small populations. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20141125.	1.5	17
116	Demographics, epidemiology and the impact of vaccination campaigns in a measles-free world â€ Can elimination be maintained?. <i>Vaccine</i> , 2017, 35, 1488-1493.	1.7	17
117	Measles outbreak risk in Pakistan: exploring the potential of combining vaccination coverage and incidence data with novel data-streams to strengthen control. <i>Epidemiology and Infection</i> , 2018, 146, 1575-1583.	1.0	17
118	Seed predators and the evolutionarily stable flowering strategy in the invasive plant, <i>Carduus nutans</i> . <i>Evolutionary Ecology</i> , 2009, 23, 893-906.	0.5	16
119	Challenges in Modelling Infectious Disease Dynamics: Preface. <i>Epidemics</i> , 2015, 10, iii-iv.	1.5	16
120	Hand, Foot, and Mouth Disease in China: Critical Community Size and Spatial Vaccination Strategies. <i>Scientific Reports</i> , 2016, 6, 25248.	1.6	15
121	Population trends for two Malagasy fruit bats. <i>Biological Conservation</i> , 2019, 234, 165-171.	1.9	15
122	Trajectory of individual immunity and vaccination required for SARS-CoV-2 community immunity: a conceptual investigation. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20200683.	1.5	15
123	The importance of the generation interval in investigating dynamics and control of new SARS-CoV-2 variants. <i>Journal of the Royal Society Interface</i> , 2022, 19, .	1.5	15
124	Rubella vaccination: must not be business as usual. <i>Lancet</i> , The, 2012, 380, 217-218.	6.3	14
125	Introduction of rubella-containing-vaccine to Madagascar: implications for roll-out and local elimination. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20151101.	1.5	14
126	Vaccine-driven virulence evolution: consequences of unbalanced reductions in mortality and transmission and implications for pertussis vaccines. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190642.	1.5	14

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127	Disentangling the dynamical underpinnings of differences in SARS-CoV-2 pathology using within-host ecological models. <i>PLoS Pathogens</i> , 2020, 16, e1009105.	2.1	14
128	A general model for the demographic signatures of the transition from pandemic emergence to endemicity. <i>Science Advances</i> , 2021, 7, .	4.7	13
129	Immuno-epidemiology and the predictability of viral evolution. <i>Science</i> , 2022, 376, 1161-1162.	6.0	13
130	Characterizing the dynamics of rubella relative to measles: the role of stochasticity. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130643.	1.5	12
131	Opportunities and challenges of a World Serum Bank – Authors' reply. <i>Lancet, The</i> , 2017, 389, 252.	6.3	12
132	Rubella vaccination in India: identifying broad consequences of vaccine introduction and key knowledge gaps. <i>Epidemiology and Infection</i> , 2018, 146, 65-77.	1.0	12
133	Perfect counterfactuals for epidemic simulations. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180279.	1.8	12
134	A competing-risks model explains hierarchical spatial coupling of measles epidemics en route to national elimination. <i>Nature Ecology and Evolution</i> , 2020, 4, 934-939.	3.4	12
135	Challenges in modeling the emergence of novel pathogens. <i>Epidemics</i> , 2021, 37, 100516.	1.5	12
136	How geographic access to care shapes disease burden: The current impact of post-exposure prophylaxis and potential for expanded access to prevent human rabies deaths in Madagascar. <i>PLoS Neglected Tropical Diseases</i> , 2021, 15, e0008821.	1.3	11
137	The limits of SARS-CoV-2 predictability. <i>Nature Ecology and Evolution</i> , 2021, 5, 1052-1054.	3.4	11
138	The evolution of powerful yet perilous immune systems. <i>Trends in Immunology</i> , 2022, 43, 117-131.	2.9	11
139	What happens if density increases? Conservation implications of population influx into refuges. <i>Animal Conservation</i> , 2007, 10, 478-486.	1.5	10
140	Monitoring for outbreak-associated excess mortality in an African city: Detection limits in Antananarivo, Madagascar. <i>International Journal of Infectious Diseases</i> , 2021, 103, 338-342.	1.5	10
141	Challenges and Opportunities in Disease Forecasting in Outbreak Settings: A Case Study of Measles in Lola Prefecture, Guinea. <i>American Journal of Tropical Medicine and Hygiene</i> , 2018, 98, 1489-1497.	0.6	10
142	Enterovirus D68: a test case for the use of immunological surveillance to develop tools to mitigate the pandemic potential of emerging pathogens. <i>Lancet Microbe, The</i> , 2022, 3, e83-e85.	3.4	10
143	Climatological, virological and sociological drivers of current and projected dengue fever outbreak dynamics in Sri Lanka. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20200075.	1.5	8
144	Characterizing human mobility patterns in rural settings of sub-Saharan Africa. <i>ELife</i> , 2021, 10, .	2.8	8

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145	Assessing the risk of vaccine-driven virulence evolution in SARS-CoV-2. Royal Society Open Science, 2022, 9, 211021.	1.1	8
146	Optimal Semelparity. PLoS ONE, 2013, 8, e57133.	1.1	7
147	Phylogeography of rubella virus in Asia: Vaccination and demography shape synchronous outbreaks. Epidemics, 2019, 28, 100346.	1.5	7
148	Evolving resistance to pathogens. Science, 2019, 363, 1277-1278.	6.0	7
149	Tensor decomposition for infectious disease incidence data. Methods in Ecology and Evolution, 2020, 11, 1690-1700.	2.2	7
150	Using Serology with Models to Clarify the Trajectory of the SARS-CoV-2 Emerging Outbreak. Trends in Immunology, 2020, 41, 849-851.	2.9	7
151	Why are there so few (or so many) circulating coronaviruses?. Trends in Immunology, 2021, 42, 751-763.	2.9	7
152	Response to Comment on "Long-term measles-induced immunomodulation increases overall childhood infectious disease mortality". Science, 2019, 365, .	6.0	7
153	Study Protocol: A Cross-Sectional Examination of Socio-Demographic and Ecological Determinants of Nutrition and Disease Across Madagascar. Frontiers in Public Health, 2020, 8, 500.	1.3	6
154	Existing human mobility data sources poorly predicted the spatial spread of SARS-CoV-2 in Madagascar. Epidemics, 2022, 38, 100534.	1.5	6
155	Measurement of vaccine-derived immunity: how do we use all the data?. Expert Review of Vaccines, 2012, 11, 747-749.	2.0	5
156	Improving measles incidence inference using age-structured serological data. Epidemiology and Infection, 2018, 146, 1699-1706.	1.0	5
157	Using Serology to Anticipate Measles Post-honeymoon Period Outbreaks. Trends in Microbiology, 2020, 28, 597-600.	3.5	5
158	Fine-scale variation in malaria prevalence across ecological regions in Madagascar: a cross-sectional study. BMC Public Health, 2021, 21, 1018.	1.2	5
159	Invasion Dynamics of Teratogenic Infections in Light of Rubella Control: Implications for Zika Virus. PLOS Currents, 2016, 8, .	1.4	5
160	Long-term trends in seasonality of mortality in urban Madagascar: the role of the epidemiological transition. Global Health Action, 2020, 13, 1717411.	0.7	4
161	Lessons Learned and Paths Forward for Rabies Dog Vaccination in Madagascar: A Case Study of Pilot Vaccination Campaigns in Moramanga District. Tropical Medicine and Infectious Disease, 2021, 6, 48.	0.9	4
162	Trip duration drives shift in travel network structure with implications for the predictability of spatial disease spread. PLoS Computational Biology, 2021, 17, e1009127.	1.5	4

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163	Challenges in evaluating risks and policy options around endemic establishment or elimination of novel pathogens. <i>Epidemics</i> , 2021, 37, 100507.	1.5	4
164	Impact of health system strengthening on delivery strategies to improve child immunisation coverage and inequalities in rural Madagascar. <i>BMJ Global Health</i> , 2022, 7, e006824.	2.0	4
165	Assessing the Effects of Measles Virus Infections on Childhood Infectious Disease Mortality in Brazil. <i>Journal of Infectious Diseases</i> , 2022, 227, 133-140.	1.9	4
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