

C Jessica E Metcalf

List of Publications by Year in descending order

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195
papers

12,240
citations

31796

53
h-index

39236

95
g-index

260
all docs

260
docs citations

260
times ranked

20711
citing authors

#	ARTICLE	IF	CITATIONS
1	Infectious disease in an era of global change. <i>Nature Reviews Microbiology</i> , 2022, 20, 193-205.	29.2	721
2	Modeling infectious disease dynamics in the complex landscape of global health. <i>Science</i> , 2015, 347, aaa4339.	20.9	522
3	Disease and healthcare burden of COVID-19 in the United States. <i>Nature Medicine</i> , 2020, 26, 1212-1217.	30.1	373
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.	7.6	364
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.	2.8	336
6	Assessing the global threat from Zika virus. <i>Science</i> , 2016, 353, aaf8160.	20.9	320
7	Aggregated mobility data could help fight COVID-19. <i>Science</i> , 2020, 368, 145-146.	20.9	315
8	The use of mobile phone data to inform analysis of COVID-19 pandemic epidemiology. <i>Nature Communications</i> , 2020, 11, 4961.	13.2	268
9	Advancing population ecology with integral projection models: a practical guide. <i>Methods in Ecology and Evolution</i> , 2014, 5, 99-110.	5.3	242
10	The microbiome beyond the horizon of ecological and evolutionary theory. <i>Nature Ecology and Evolution</i> , 2017, 1, 1606-1615.	8.0	233
11	Use of serological surveys to generate key insights into the changing global landscape of infectious disease. <i>Lancet, The</i> , 2016, 388, 728-730.	12.1	226
12	Immune life history, vaccination, and the dynamics of SARS-CoV-2 over the next 5 years. <i>Science</i> , 2020, 370, 811-818.	20.9	222
13	Why evolutionary biologists should be demographers. <i>Trends in Ecology and Evolution</i> , 2007, 22, 205-212.	8.8	205
14	Epidemiological and evolutionary considerations of SARS-CoV-2 vaccine dosing regimes. <i>Science</i> , 2021, 372, 363-370.	20.9	204
15	Connecting Mobility to Infectious Diseases: The Promise and Limits of Mobile Phone Data. <i>Journal of Infectious Diseases</i> , 2016, 214, S414-S420.	3.9	164
16	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.	7.6	160
17	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.	7.6	158
18	Thirteen challenges in modelling plant diseases. <i>Epidemics</i> , 2015, 10, 6-10.	3.0	151

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19	Environmental Drivers of the Spatiotemporal Dynamics of Respiratory Syncytial Virus in the United States. <i>PLoS Pathogens</i> , 2015, 11, e1004591.	4.1	129
20	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.	7.6	128
21	Opportunities and challenges in modeling emerging infectious diseases. <i>Science</i> , 2017, 357, 149-152.	20.9	124
22	Hand, Foot, and Mouth Disease in China: Modeling Epidemic Dynamics of Enterovirus Serotypes and Implications for Vaccination. <i>PLoS Medicine</i> , 2016, 13, e1001958.	8.4	114
23	Understanding Herd Immunity. <i>Trends in Immunology</i> , 2015, 36, 753-755.	6.8	108
24	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.	4.2	104
25	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.	2.2	98
26	<i>i><sc>IPM</sc>pack</i>: an <i><sc>R</sc></i> package for integral projection models. <i>Methods in Ecology and Evolution</i>, 2013, 4, 195-200.</i>	5.3	95
27	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.	2.8	95
28	Partitioning Regulatory Mechanisms of Within-Host Malaria Dynamics Using the Effective Propagation Number. <i>Science</i> , 2011, 333, 984-988.	20.9	92
29	The Cinderella syndrome: why do malaria-infected cells burst at midnight?. <i>Trends in Parasitology</i> , 2013, 29, 10-16.	3.3	92
30	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.	2.8	91
31	Mathematical models to guide pandemic response. <i>Science</i> , 2020, 369, 368-369.	20.9	88
32	Epidemic dynamics of respiratory syncytial virus in current and future climates. <i>Nature Communications</i> , 2019, 10, 5512.	13.2	86
33	Vaccine nationalism and the dynamics and control of SARS-CoV-2. <i>Science</i> , 2021, 373, eabj7364.	20.9	85
34	Is life's history buffering or lability adaptive in stochastic environments?. <i>Oikos</i> , 2009, 118, 972-980.	2.7	84
35	High resolution age-structured mapping of childhood vaccination coverage in low and middle income countries. <i>Vaccine</i> , 2018, 36, 1583-1591.	4.0	83
36	Mapping vaccination coverage to explore the effects of delivery mechanisms and inform vaccination strategies. <i>Nature Communications</i> , 2019, 10, 1633.	13.2	83

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37	Variation in SARS-CoV-2 outbreaks across sub-Saharan Africa. <i>Nature Medicine</i> , 2021, 27, 447-453.	30.1	83
38	The path of least resistance: aggressive or moderate treatment?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140566.	2.8	81
39	Multinational patterns of seasonal asymmetry in human movement influence infectious disease dynamics. <i>Nature Communications</i> , 2017, 8, 2069.	13.2	78
40	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.	8.9	77
41	Seroepidemiologic Study Designs for Determining SARS-COV-2 Transmission and Immunity. <i>Emerging Infectious Diseases</i> , 2020, 26, 1978-1986.	4.4	74
42	Forecasting Epidemiological and Evolutionary Dynamics of Infectious Diseases. <i>Trends in Ecology and Evolution</i> , 2016, 31, 776-788.	8.8	71
43	Estimating SARS-CoV-2 seroprevalence and epidemiological parameters with uncertainty from serological surveys. <i>ELife</i> , 2021, 10, .	5.9	71
44	Evolution of Delayed Reproduction in Uncertain Environments: A Lifeâ€History Perspective. <i>American Naturalist</i> , 2008, 172, 797-805.	2.2	70
45	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.	3.5	69
46	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.	2.1	66
47	Six challenges in modelling for public health policy. <i>Epidemics</i> , 2015, 10, 93-96.	3.0	64
48	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.	7.8	64
49	The geography of measles vaccination in the African Great Lakes region. <i>Nature Communications</i> , 2017, 8, 15585.	13.2	64
50	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.	7.6	63
51	Estimating Drivers of Autochthonous Transmission of Chikungunya Virus in its Invasion of the Americas. <i>PLOS Currents</i> , 2015, 7, .	1.6	62
52	A Global Immunological Observatory to meet a time of pandemics. <i>ELife</i> , 2020, 9, .	5.9	60
53	Characterizing the impact of spatial clustering of susceptibility for measles elimination. <i>Vaccine</i> , 2019, 37, 732-741.	4.0	58
54	Lives saved with vaccination for 10 pathogens across 112 countries in a pre-COVID-19 world. <i>ELife</i> , 2021, 10, .	5.9	58

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55	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.	2.1	57
56	Plant neighborhood shapes diversity and reduces interspecific variation of the phyllosphere microbiome. <i>ISME Journal</i> , 2022, 16, 1376-1387.	10.0	57
57	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.	7.6	56
58	Measuring the Performance of Vaccination Programs Using Cross-Sectional Surveys: A Likelihood Framework and Retrospective Analysis. <i>PLoS Medicine</i> , 2011, 8, e1001110.	8.4	55
59	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.	3.4	53
60	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.	3.1	50
61	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.	1.0	47
62	The Evolution of Variance Control. <i>Trends in Ecology and Evolution</i> , 2020, 35, 22-33.	8.8	45
63	Maximizing and evaluating the impact of test-trace-isolate programs: A modeling study. <i>PLoS Medicine</i> , 2021, 18, e1003585.	8.4	45
64	Natural selection for imprecise vertical transmission in host-microbiota systems. <i>Nature Ecology and Evolution</i> , 2022, 6, 77-87.	8.0	42
65	The epidemiology of rubella in Mexico: seasonality, stochasticity and regional variation. <i>Epidemiology and Infection</i> , 2011, 139, 1029-1038.	2.1	41
66	Five challenges in evolution and infectious diseases. <i>Epidemics</i> , 2015, 10, 40-44.	3.0	40
67	Disentangling serology to elucidate henipavirus and filovirus transmission in Madagascar fruit bats. <i>Journal of Animal Ecology</i> , 2019, 88, 1001-1016.	2.9	40
68	Growth-survival trade-offs and allometries in rosette-forming perennials. <i>Functional Ecology</i> , 2006, 20, 217-225.	3.6	38
69	Assessing the influence of climate on wintertime SARS-CoV-2 outbreaks. <i>Nature Communications</i> , 2021, 12, 846.	13.2	38
70	Environmental uncertainty, autocorrelation and the evolution of survival. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 2153-2160.	2.8	37
71	Persistence in Epidemic Metapopulations: Quantifying the Rescue Effects for Measles, Mumps, Rubella and Whooping Cough. <i>PLoS ONE</i> , 2013, 8, e74696.	2.5	37
72	The potential impact of coinfection on antimicrobial chemotherapy and drug resistance. <i>Trends in Microbiology</i> , 2015, 23, 537-544.	7.7	37

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73	Six challenges in the eradication of infectious diseases. <i>Epidemics</i> , 2015, 10, 97-101.	3.0	37
74	Why leveraging sex differences in immune trade-offs may illuminate the evolution of senescence. <i>Functional Ecology</i> , 2020, 34, 129-140.	3.6	37
75	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.	1.6	36
76	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.	5.3	35
77	Life history in a model system: opening the black box with <i>Arabidopsis thaliana</i> . <i>Ecology Letters</i> , 2009, 12, 593-600.	6.7	34
78	Structured models of infectious disease: Inference with discrete data. <i>Theoretical Population Biology</i> , 2012, 82, 275-282.	1.0	34
79	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.	3.4	34
80	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.	2.6	33
81	Estimating sources and sinks of malaria parasites in Madagascar. <i>Nature Communications</i> , 2018, 9, 3897.	13.2	32
82	Seven challenges in modeling vaccine preventable diseases. <i>Epidemics</i> , 2015, 10, 11-15.	3.0	31
83	Impact on Epidemic Measles of Vaccination Campaigns Triggered by Disease Outbreaks or Serosurveys: A Modeling Study. <i>PLoS Medicine</i> , 2016, 13, e1002144.	8.4	31
84	Schedule and magnitude of reproductive investment under immune trade-offs explains sex differences in immunity. <i>Nature Communications</i> , 2018, 9, 4391.	13.2	31
85	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.	4.0	31
86	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.	3.4	30
87	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.	2.1	29
88	Balancing Evidence and Uncertainty when Considering Rubella Vaccine Introduction. <i>PLoS ONE</i> , 2013, 8, e67639.	2.5	29
89	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.	2.5	29
90	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.	3.4	28

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91	The duration of travel impacts the spatial dynamics of infectious diseases. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22572-22579.	7.6	28
92	Bottom-up regulation of malaria population dynamics in mice co-infected with lung migratory nematodes. Ecology Letters, 2015, 18, 1387-1396.	6.7	27
93	Seasonal Population Movements and the Surveillance and Control of Infectious Diseases. Trends in Parasitology, 2017, 33, 10-20.	3.3	27
94	Protective microbiomes can limit the evolution of host pathogen defense. Evolution Letters, 2019, 3, 534-543.	3.4	27
95	Healthcare utilization, provisioning of post-exposure prophylaxis, and estimation of human rabies burden in Madagascar. Vaccine, 2019, 37, A35-A44.	4.0	27
96	Opportunities and challenges of integral projection models for modelling host-parasite dynamics. Journal of Animal Ecology, 2016, 85, 343-355.	2.9	26
97	Overcoming data sparseness and parametric constraints in modeling of tree mortality: a new nonparametric Bayesian model. Canadian Journal of Forest Research, 2009, 39, 1677-1687.	1.8	25
98	Revealing mechanisms underlying variation in malaria virulence: effective propagation and host control of uninfected red blood cell supply. Journal of the Royal Society Interface, 2012, 9, 2804-2813.	3.4	25
99	Why Evolve Reliance on the Microbiome for Timing of Ontogeny?. MBio, 2019, 10, .	4.4	25
100	Demographically framing trade-offs between sensitivity and specificity illuminates selection on immunity. Nature Ecology and Evolution, 2017, 1, 1766-1772.	8.0	24
101	A cline in seed dormancy helps conserve the environment experienced during reproduction across the range of <i>Arabidopsis thaliana</i> . American Journal of Botany, 2016, 103, 47-59.	1.9	23
102	Dynamic response of airborne infections to climate change: predictions for varicella. Climatic Change, 2018, 148, 547-560.	3.7	23
103	Transient sensitivities of non-indigenous shrub species indicate complicated invasion dynamics. Biological Invasions, 2008, 10, 833-846.	2.4	22
104	Avoiding the crowds: the evolution of plastic responses to seasonal cues in a density-dependent world. Journal of Ecology, 2015, 103, 819-828.	4.1	21
105	The importance of the generation interval in investigating dynamics and control of new SARS-CoV-2 variants. Journal of the Royal Society Interface, 2022, 19, .	3.4	20
106	Elucidating transmission dynamics and host-parasite-vector relationships for rodent-borne Bartonella spp. in Madagascar. Epidemics, 2017, 20, 56-66.	3.0	19
107	Comparative dynamics, seasonality in transmission, and predictability of childhood infections in Mexico. Epidemiology and Infection, 2017, 145, 607-625.	2.1	19
108	Seasonal gaps in measles vaccination coverage in Madagascar. Vaccine, 2019, 37, 2511-2519.	4.0	19

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109	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.	3.4	18
110	Demographics, epidemiology and the impact of vaccination campaigns in a measles-free world – Can elimination be maintained?. <i>Vaccine</i> , 2017, 35, 1488-1493.	4.0	18
111	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.	2.1	18
112	Hand, Foot, and Mouth Disease in China: Critical Community Size and Spatial Vaccination Strategies. <i>Scientific Reports</i> , 2016, 6, 25248.	3.4	17
113	Immuno-epidemiology and the predictability of viral evolution. <i>Science</i> , 2022, 376, 1161-1162.	20.9	17
114	Seed predators and the evolutionarily stable flowering strategy in the invasive plant, <i>Carduus nutans</i> . <i>Evolutionary Ecology</i> , 2009, 23, 893-906.	1.3	16
115	Challenges in Modelling Infectious Disease Dynamics: Preface. <i>Epidemics</i> , 2015, 10, iii-iv.	3.0	16
116	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.	3.4	16
117	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.	3.4	16
118	Challenges in modeling the emergence of novel pathogens. <i>Epidemics</i> , 2021, 37, 100516.	3.0	16
119	Population trends for two Malagasy fruit bats. <i>Biological Conservation</i> , 2019, 234, 165-171.	4.2	15
120	A general model for the demographic signatures of the transition from pandemic emergence to endemicity. <i>Science Advances</i> , 2021, 7, .	10.9	15
121	Rubella vaccination: must not be business as usual. <i>Lancet, The</i> , 2012, 380, 217-218.	12.1	14
122	Characterizing the dynamics of rubella relative to measles: the role of stochasticity. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130643.	3.4	14
123	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.	3.4	14
124	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.	8.0	14
125	Disentangling the dynamical underpinnings of differences in SARS-CoV-2 pathology using within-host ecological models. <i>PLoS Pathogens</i> , 2020, 16, e1009105.	4.1	14
126	The evolution of powerful yet perilous immune systems. <i>Trends in Immunology</i> , 2022, 43, 117-131.	6.8	14

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127	Opportunities and challenges of a World Serum Bank – Authors' reply. <i>Lancet, The</i> , 2017, 389, 252.	12.1	13
128	Perfect counterfactuals for epidemic simulations. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180279.	4.2	13
129	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.	3.3	13
130	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.	2.4	13
131	Rubella vaccination in India: identifying broad consequences of vaccine introduction and key knowledge gaps. <i>Epidemiology and Infection</i> , 2018, 146, 65-77.	2.1	12
132	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.	6.7	12
133	Long-term benefits of nonpharmaceutical interventions for endemic infections are shaped by respiratory pathogen dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.6	12
134	Adenosine Promotes the Recovery of Mice from the Cuprizone-Induced Behavioral and Morphological Changes while Effecting on Microglia and Inflammatory Cytokines in the Brain. <i>Journal of Neuroimmune Pharmacology</i> , 2018, 13, 412-425.	4.0	11
135	The limits of SARS-CoV-2 predictability. <i>Nature Ecology and Evolution</i> , 2021, 5, 1052-1054.	8.0	11
136	Characterizing human mobility patterns in rural settings of sub-Saharan Africa. <i>ELife</i> , 2021, 10, .	5.9	11
137	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.	3.5	11
138	Study Protocol: A Cross-Sectional Examination of Socio-Demographic and Ecological Determinants of Nutrition and Disease Across Madagascar. <i>Frontiers in Public Health</i> , 2020, 8, 500.	2.8	10
139	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.	3.4	10
140	Fine-scale variation in malaria prevalence across ecological regions in Madagascar: a cross-sectional study. <i>BMC Public Health</i> , 2021, 21, 1018.	3.0	10
141	Long-term measles antibody profiles following different vaccine schedules in China, a longitudinal study. <i>Nature Communications</i> , 2023, 14, .	13.2	10
142	Phylogeography of rubella virus in Asia: Vaccination and demography shape synchronous outbreaks. <i>Epidemics</i> , 2019, 28, 100346.	3.0	9
143	Invasion Dynamics of Teratogenic Infections in Light of Rubella Control: Implications for Zika Virus. <i>PLOS Currents</i> , 2016, 8, .	1.6	9
144	Assessing the risk of vaccine-driven virulence evolution in SARS-CoV-2. <i>Royal Society Open Science</i> , 2022, 9, 211021.	2.5	9

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145	Using timelines as part of recovery-focused practice in psychosis. <i>Journal of Psychiatric and Mental Health Nursing</i> , 2011, 18, 869-877.	2.4	8
146	Using Serology with Models to Clarify the Trajectory of the SARS-CoV-2 Emerging Outbreak. <i>Trends in Immunology</i> , 2020, 41, 849-851.	6.8	8
147	Why are there so few (or so many) circulating coronaviruses?. <i>Trends in Immunology</i> , 2021, 42, 751-763.	6.8	8
148	Optimal Semelparity. <i>PLoS ONE</i> , 2013, 8, e57133.	2.5	7
149	Evolving resistance to pathogens. <i>Science</i> , 2019, 363, 1277-1278.	20.9	7
150	Tensor decomposition for infectious disease incidence data. <i>Methods in Ecology and Evolution</i> , 2020, 11, 1690-1700.	5.3	7
151	Response to Comment on "Long-term measles-induced immunomodulation increases overall childhood infectious disease mortality". <i>Science</i> , 2019, 365, .	20.9	7
152	Challenges in evaluating risks and policy options around endemic establishment or elimination of novel pathogens. <i>Epidemics</i> , 2021, 37, 100507.	3.0	7
153	Improving measles incidence inference using age-structured serological data. <i>Epidemiology and Infection</i> , 2018, 146, 1699-1706.	2.1	6
154	Lessons Learned and Paths Forward for Rabies Dog Vaccination in Madagascar: A Case Study of Pilot Vaccination Campaigns in Moramanga District. <i>Tropical Medicine and Infectious Disease</i> , 2021, 6, 48.	2.3	6
155	Existing human mobility data sources poorly predicted the spatial spread of SARS-CoV-2 in Madagascar. <i>Epidemics</i> , 2022, 38, 100534.	3.0	6
156	Mechanistic models to meet the challenge of climate change in plant-pathogen systems. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2023, 378, .	4.2	6
157	Measurement of vaccine-derived immunity: how do we use all the data?. <i>Expert Review of Vaccines</i> , 2012, 11, 747-749.	4.5	5
158	Using Serology to Anticipate Measles Post-honeymoon Period Outbreaks. <i>Trends in Microbiology</i> , 2020, 28, 597-600.	7.7	5
159	Cyclic epidemics and extreme outbreaks induced by hydro-climatic variability and memory. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20200521.	3.4	5
160	Long-term trends in seasonality of mortality in urban Madagascar: the role of the epidemiological transition. <i>Global Health Action</i> , 2020, 13, 1717411.	2.0	5
161	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.	5.5	5
162	Assessing the Effects of Measles Virus Infections on Childhood Infectious Disease Mortality in Brazil. <i>Journal of Infectious Diseases</i> , 2022, 227, 133-140.	3.9	5

#	ARTICLE	IF	CITATIONS
163	Impact of disruptions to routine vaccination programs, quantifying burden of measles, and mapping targeted supplementary immunization activities. <i>Epidemics</i> , 2022, 41, 100647.	3.0	5
164	Long term intrinsic cycling in human life course antibody responses to influenza A(H3N2): an observational and modeling study. <i>ELife</i> , 0, 11, .	5.9	5
165	Drivers of measles mortality: the historic fatality burden of famine in Bangladesh. <i>Epidemiology and Infection</i> , 2017, 145, 3361-3369.	2.1	4
166	Trip duration drives shift in travel network structure with implications for the predictability of spatial disease spread. <i>PLoS Computational Biology</i> , 2021, 17, e1009127.	3.1	4
167	Comparing the age and sex trajectories of SARS-CoV-2 morbidity and mortality with other respiratory pathogens. <i>Royal Society Open Science</i> , 2022, 9, .	2.5	4
168	Excess mortality associated with the COVID-19 pandemic during the 2020 and 2021 waves in Antananarivo, Madagascar. <i>BMJ Global Health</i> , 2023, 8, e011801.	5.5	4
169	Rubella Vaccine Introduction in the South African Public Vaccination Schedule: Mathematical Modelling for Decision Making. <i>Vaccines</i> , 2020, 8, 383.	4.5	3
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177	Medium-term scenarios of COVID-19 as a function of immune uncertainties and chronic disease. <i>Journal of the Royal Society Interface</i> , 2023, 20, .	3.4	3
178	The evolutionary dynamics of timing of maternal immunity: evaluating the role of age-specific mortality. <i>Journal of Evolutionary Biology</i> , 2015, 28, 493-502.	1.6	2
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182	Seasonal determinants of access to care: implications for measles outbreak risk in Madagascar. <i>Lancet, The</i> , 2017, 389, S14.	12.1	1
183	Towards better targeting: lessons from a posthoneymoon measles outbreak in Madagascar, 2018â€“2019. <i>BMJ Global Health</i> , 2020, 5, e003153.	5.5	1
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