

# Michael J Tildesley

## List of Publications by Year in descending order

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Version: 2024-02-01

82  
papers

3,027  
citations

236833

25  
h-index

223716

46  
g-index

109  
all docs

109  
docs citations

109  
times ranked

3374  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vaccination and non-pharmaceutical interventions for COVID-19: a mathematical modelling study. <i>Lancet Infectious Diseases</i> , The, 2021, 21, 793-802.	4.6	453
2	Optimal reactive vaccination strategies for a foot-and-mouth outbreak in the UK. <i>Nature</i> , 2006, 440, 83-86.	13.7	216
3	Modelling optimal vaccination strategy for SARS-CoV-2 in the UK. <i>PLoS Computational Biology</i> , 2021, 17, e1008849.	1.5	142
4	Key questions for modelling COVID-19 exit strategies. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20201405.	1.2	106
5	Adaptive Management and the Value of Information: Learning Via Intervention in Epidemiology. <i>PLoS Biology</i> , 2014, 12, e1001970.	2.6	98
6	Possible future waves of SARS-CoV-2 infection generated by variants of concern with a range of characteristics. <i>Nature Communications</i> , 2021, 12, 5730.	5.8	90
7	Predictions of COVID-19 dynamics in the UK: Short-term forecasting and analysis of potential exit strategies. <i>PLoS Computational Biology</i> , 2021, 17, e1008619.	1.5	87
8	Impact of spatial clustering on disease transmission and optimal control. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 1041-1046.	3.3	85
9	The role of pre-emptive culling in the control of foot-and-mouth disease. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 3239-3248.	1.2	84
10	Decision-making for foot-and-mouth disease control: Objectives matter. <i>Epidemics</i> , 2016, 15, 10-19.	1.5	71
11	Accuracy of models for the 2001 foot-and-mouth epidemic. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 1459-1468.	1.2	68
12	Harnessing multiple models for outbreak management. <i>Science</i> , 2020, 368, 577-579.	6.0	64
13	The Impact of Movements and Animal Density on Continental Scale Cattle Disease Outbreaks in the United States. <i>PLoS ONE</i> , 2014, 9, e91724.	1.1	61
14	INFERENCE FOR INDIVIDUAL-LEVEL MODELS OF INFECTIOUS DISEASES IN LARGE POPULATIONS. <i>Statistica Sinica</i> , 2010, 20, 239-261.	0.2	57
15	Real-time decision-making during emergency disease outbreaks. <i>PLoS Computational Biology</i> , 2018, 14, e1006202.	1.5	46
16	Essential information: Uncertainty and optimal control of Ebola outbreaks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5659-5664.	3.3	43
17	Is a good predictor of final epidemic size: Foot-and-mouth disease in the UK. <i>Journal of Theoretical Biology</i> , 2009, 258, 623-629.	0.8	42
18	Modeling the spread and control of foot-and-mouth disease in Pennsylvania following its discovery and options for control. <i>Preventive Veterinary Medicine</i> , 2012, 104, 224-239.	0.7	42

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19	The impact of school reopening on the spread of COVID-19 in England. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200261.	1.8	41
20	A Bayesian Ensemble Approach for Epidemiological Projections. <i>PLoS Computational Biology</i> , 2015, 11, e1004187.	1.5	40
21	Topographic determinants of foot and mouth disease transmission in the UK 2001 epidemic. <i>BMC Veterinary Research</i> , 2006, 2, 3.	0.7	37
22	Ensemble modelling and structured decision-making to support Emergency Disease Management. <i>Preventive Veterinary Medicine</i> , 2017, 138, 124-133.	0.7	36
23	Vaccination against Foot-And-Mouth Disease: Do Initial Conditions Affect Its Benefit?. <i>PLoS ONE</i> , 2013, 8, e77616.	1.1	32
24	Rapid in-country sequencing of whole virus genomes to inform rabies elimination programmes. <i>Wellcome Open Research</i> , 2020, 5, 3.	0.9	30
25	Challenges for modelling interventions for future pandemics. <i>Epidemics</i> , 2022, 38, 100546.	1.5	30
26	Modelling foot-and-mouth disease: A comparison between the UK and Denmark. <i>Preventive Veterinary Medicine</i> , 2008, 85, 107-124.	0.7	29
27	Epidemic predictions in an imperfect world: modelling disease spread with partial data. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20150205.	1.2	27
28	Rapid in-country sequencing of whole virus genomes to inform rabies elimination programmes. <i>Wellcome Open Research</i> , 2020, 5, 3.	0.9	26
29	Quantifying pupil-to-pupil SARS-CoV-2 transmission and the impact of lateral flow testing in English secondary schools. <i>Nature Communications</i> , 2022, 13, 1106.	5.8	24
30	On the origin of filamentary structure in sunspot penumbrae: non-linear results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 350, 657-670.	1.6	23
31	Disease Prevention versus Data Privacy: Using Landcover Maps to Inform Spatial Epidemic Models. <i>PLoS Computational Biology</i> , 2012, 8, e1002723.	1.5	22
32	Fitting to the UK COVID-19 outbreak, short-term forecasts and estimating the reproductive number. <i>Statistical Methods in Medical Research</i> , 2022, 31, 1716-1737.	0.7	22
33	Modelling H5N1 in Bangladesh across spatial scales: Model complexity and zoonotic transmission risk. <i>Epidemics</i> , 2017, 20, 37-55.	1.5	19
34	Disentangling the influence of livestock vs. farm density on livestock disease epidemics. <i>Ecosphere</i> , 2018, 9, e02294.	1.0	18
35	Effect of data quality on estimates of farm infectiousness trends in the UK 2001 foot-and-mouth disease epidemic. <i>Journal of the Royal Society Interface</i> , 2007, 4, 235-241.	1.5	17
36	The impact of surveillance and control on highly pathogenic avian influenza outbreaks in poultry in Dhaka division, Bangladesh. <i>PLoS Computational Biology</i> , 2018, 14, e1006439.	1.5	17

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37	The role of movement restrictions in limiting the economic impact of livestock infections. <i>Nature Sustainability</i> , 2019, 2, 834-840.	11.5	17
38	An analysis of school absences in England during the COVID-19 pandemic. <i>BMC Medicine</i> , 2021, 19, 137.	2.3	17
39	Early warning signals of infectious disease transitions: a review. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210555.	1.5	17
40	Modelling SARS-CoV-2 transmission in a UK university setting. <i>Epidemics</i> , 2021, 36, 100476.	1.5	17
41	Context matters: using reinforcement learning to develop human-readable, state-dependent outbreak response policies. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180277.	1.8	16
42	Quantifying the Value of Perfect Information in Emergency Vaccination Campaigns. <i>PLoS Computational Biology</i> , 2017, 13, e1005318.	1.5	16
43	Concurrent assessment of epidemiological and operational uncertainties for optimal outbreak control: Ebola as a case study. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20190774.	1.2	15
44	SARS-CoV-2 infection in UK university students: lessons from September–December 2020 and modelling insights for future student return. <i>Royal Society Open Science</i> , 2021, 8, 210310.	1.1	15
45	Could Changes in the Agricultural Landscape of Northeastern China Have Influenced the Long-Distance Transmission of Highly Pathogenic Avian Influenza H5Nx Viruses?. <i>Frontiers in Veterinary Science</i> , 2017, 4, 225.	0.9	14
46	The problem of detrending when analysing potential indicators of disease elimination. <i>Journal of Theoretical Biology</i> , 2019, 481, 183-193.	0.8	14
47	The performance of approximations of farm contiguity compared to contiguity defined using detailed geographical information in two sample areas in Scotland: implications for foot-and-mouth disease modelling. <i>BMC Veterinary Research</i> , 2013, 9, 198.	0.7	13
48	Prospects for detecting early warning signals in discrete event sequence data: Application to epidemiological incidence data. <i>PLoS Computational Biology</i> , 2020, 16, e1007836.	1.5	13
49	A network modelling approach to assess non-pharmaceutical disease controls in a worker population: An application to SARS-CoV-2. <i>PLoS Computational Biology</i> , 2021, 17, e1009058.	1.5	12
50	On the origin of filamentary structure in sunspot penumbrae: linear instabilities. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 338, 497-507.	1.6	11
51	Assessing the impact of lateral flow testing strategies on within-school SARS-CoV-2 transmission and absences: A modelling study. <i>PLoS Computational Biology</i> , 2022, 18, e1010158.	1.5	11
52	Effects of regional differences and demography in modelling foot-and-mouth disease in cattle at the national scale. <i>Interface Focus</i> , 2020, 10, 20190054.	1.5	10
53	Strategic testing approaches for targeted disease monitoring can be used to inform pandemic decision-making. <i>PLoS Biology</i> , 2021, 19, e3001307.	2.6	9
54	Insights from quantitative and mathematical modelling on the proposed 2030 goals for Yaws. <i>Gates Open Research</i> , 2019, 3, 1576.	2.0	9

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55	Modelling livestock infectious disease control policy under differing social perspectives on vaccination behaviour. <i>PLoS Computational Biology</i> , 2022, 18, e1010235.	1.5	9
56	Challenges and opportunities for using national animal datasets to support foot-and-mouth disease control. <i>Transboundary and Emerging Diseases</i> , 2021, 68, 1800-1813.	1.3	8
57	Synergistic interventions to control COVID-19: Mass testing and isolation mitigates reliance on distancing. <i>PLoS Computational Biology</i> , 2021, 17, e1009518.	1.5	8
58	Precautionary breaks: Planned, limited duration circuit breaks to control the prevalence of SARS-CoV2 and the burden of COVID-19 disease. <i>Epidemics</i> , 2021, 37, 100526.	1.5	8
59	Epidemiological and Virological Characteristics of Pandemic Influenza A (H1N1) School Outbreaks in China in 2009. <i>PLoS ONE</i> , 2012, 7, e45898.	1.1	7
60	Rapid simulation of spatial epidemics: A spectral method. <i>Journal of Theoretical Biology</i> , 2015, 370, 121-134.	0.8	7
61	Preserving privacy whilst maintaining robust epidemiological predictions. <i>Epidemics</i> , 2016, 17, 35-41.	1.5	7
62	Evidence for history-dependence of influenza pandemic emergence. <i>Scientific Reports</i> , 2017, 7, 43623.	1.6	7
63	Need for speed: An optimized gridding approach for spatially explicit disease simulations. <i>PLoS Computational Biology</i> , 2018, 14, e1006086.	1.5	7
64	Quantitative impacts of incubation phase transmission of foot-and-mouth disease virus. <i>Scientific Reports</i> , 2019, 9, 2707.	1.6	7
65	Cattle farmer psychosocial profiles and their association with control strategies for bovine viral diarrhoea. <i>Journal of Dairy Science</i> , 2022, 105, 3559-3573.	1.4	7
66	Vaccination strategies for foot-and-mouth disease (reply). <i>Nature</i> , 2007, 445, E12-E13.	13.7	6
67	Insights into mucosal innate responses to <i>Escherichia coli</i> O157 : H7 colonization of cattle by mathematical modelling of excretion dynamics. <i>Journal of the Royal Society Interface</i> , 2012, 9, 518-527.	1.5	6
68	Anticipating future learning affects current control decisions: A comparison between passive and active adaptive management in an epidemiological setting. <i>Journal of Theoretical Biology</i> , 2020, 506, 110380.	0.8	6
69	Modelling the persistence and control of Rift Valley fever virus in a spatially heterogeneous landscape. <i>Nature Communications</i> , 2021, 12, 5593.	5.8	6
70	Dynamics of the 2004 avian influenza H5N1 outbreak in Thailand: The role of duck farming, sequential model fitting and control. <i>Preventive Veterinary Medicine</i> , 2018, 159, 171-181.	0.7	5
71	Causes of delayed outbreak responses and their impacts on epidemic spread. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20200933.	1.5	5
72	One Health Surveillance for Rabies: A Case Study of Integrated Bite Case Management in Albay Province, Philippines. <i>Frontiers in Tropical Diseases</i> , 2022, 3, .	0.5	5

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73	Potential for epidemic take-off from the primary outbreak farm via livestock movements. BMC Veterinary Research, 2011, 7, 76.	0.7	4
74	Climate drivers of plague epidemiology in British India, 1898â€“1949. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20200538.	1.2	4
75	Point pattern simulation modelling of extensive and intensive chicken farming in Thailand: Accounting for clustering and landscape characteristics. Agricultural Systems, 2019, 173, 335-344.	3.2	3
76	Realistic assumptions about spatial locations and clustering of premises matter for models of foot-and-mouth disease spread in the United States. PLoS Computational Biology, 2020, 16, e1007641.	1.5	3
77	Developments in statistical inference when assessing spatiotemporal disease clustering with the tau statistic. Spatial Statistics, 2021, 42, 100438.	0.9	3
78	Reparameterization of a mathematical model of African horse sickness virus using data from a systematic literature search. Transboundary and Emerging Diseases, 2022, 69, .	1.3	3
79	The effect of notification window length on the epidemiological impact of COVID-19 contact tracing mobile applications. Communications Medicine, 2022, 2, .	1.9	3
80	How predictable are flu pandemics?. Significance, 2017, 14, 28-33.	0.3	2
81	A model exploration of carrier and movement transmission as potential explanatory causes for the persistence of footâ€“andâ€“mouth disease in endemic regions. Transboundary and Emerging Diseases, 2021, , .	1.3	2
82	Inference for a spatio-temporal model with partial spatial data: African horse sickness virus in Morocco. Epidemics, 2022, 39, 100566.	1.5	1