

Louise Dyson

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

2,597
citations

516561

16
h-index

315616

38
g-index

65
all docs

65
docs citations

65
times ranked

4578
citing authors

#	ARTICLE	IF	CITATIONS
1	Risk of mortality in patients infected with SARS-CoV-2 variant of concern 202012/1: matched cohort study. <i>BMJ, The</i> , 2021, 372, n579.	3.0	648
2	Vaccination and non-pharmaceutical interventions for COVID-19: a mathematical modelling study. <i>Lancet Infectious Diseases, The</i> , 2021, 21, 793-802.	4.6	453
3	Modelling optimal vaccination strategy for SARS-CoV-2 in the UK. <i>PLoS Computational Biology</i> , 2021, 17, e1008849.	1.5	142
4	Multiscale mechanisms of cell migration during development: theory and experiment. <i>Development (Cambridge)</i> , 2012, 139, 2935-2944.	1.2	133
5	Noise-Induced Bistable States and Their Mean Switching Time in Foraging Colonies. <i>Physical Review Letters</i> , 2014, 112, 038101.	2.9	106
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	Quantitative analyses and modelling to support achievement of the 2020 goals for nine neglected tropical diseases. <i>Parasites and Vectors</i> , 2015, 8, 630.	1.0	80
9	Measuring and modelling the effects of systematic non-adherence to mass drug administration. <i>Epidemics</i> , 2017, 18, 56-66.	1.5	72
10	Age-Related Changes in Speed and Mechanism of Adult Skeletal Muscle Stem Cell Migration. <i>Stem Cells</i> , 2012, 30, 1182-1195.	1.4	68
11	Macroscopic limits of individual-based models for motile cell populations with volume exclusion. <i>Physical Review E</i> , 2012, 86, 031903.	0.8	41
12	Quantification of the natural history of visceral leishmaniasis and consequences for control. <i>Parasites and Vectors</i> , 2015, 8, 521.	1.0	41
13	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
14	The importance of volume exclusion in modelling cellular migration. <i>Journal of Mathematical Biology</i> , 2015, 71, 691-711.	0.8	34
15	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
16	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
17	Onset of collective motion in locusts is captured by a minimal model. <i>Physical Review E</i> , 2015, 92, 052708.	0.8	18
18	An analysis of school absences in England during the COVID-19 pandemic. <i>BMC Medicine</i> , 2021, 19, 137.	2.3	17

#	ARTICLE	IF	CITATIONS
19	Early warning signals of infectious disease transitions: a review. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210555.	1.5	17
20	Modelling SARS-CoV-2 transmission in a UK university setting. <i>Epidemics</i> , 2021, 36, 100476.	1.5	17
21	A chemotactic model of trunk neural crest cell migration. <i>Genesis</i> , 2018, 56, e23239.	0.8	16
22	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
23	Targeted Treatment of Yaws With Household Contact Tracing: How Much Do We Miss?. <i>American Journal of Epidemiology</i> , 2018, 187, 837-844.	1.6	14
24	The problem of detrending when analysing potential indicators of disease elimination. <i>Journal of Theoretical Biology</i> , 2019, 481, 183-193.	0.8	14
25	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
26	Staged Models for Interdisciplinary Research. <i>PLoS ONE</i> , 2016, 11, e0157261.	1.1	12
27	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
28	The risk of SARS-CoV-2 outbreaks in low prevalence settings following the removal of travel restrictions. <i>Communications Medicine</i> , 2021, 1, .	1.9	12
29	Modelling acidosis and the cell cycle in multicellular tumour spheroids. <i>Journal of Theoretical Biology</i> , 2012, 298, 107-115.	0.8	11
30	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
31	Insights from quantitative and mathematical modelling on the proposed 2030 goals for Yaws. <i>Gates Open Research</i> , 2019, 3, 1576.	2.0	9
32	Modeling Treatment Strategies to Inform Yaws Eradication. <i>Emerging Infectious Diseases</i> , 2020, 26, 2685-2693.	2.0	8
33	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
34	A generation of junior faculty is at risk from the impacts of COVID-19. <i>PLoS Biology</i> , 2021, 19, e3001266.	2.6	6
35	The statistics of fixation times for systems with recruitment. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2015, 2015, P01013.	0.9	4
36	Simplification and analysis of a model of social interaction in voting. <i>European Physical Journal B</i> , 2016, 89, 1.	0.6	4

#	ARTICLE	IF	CITATIONS
37	How modelling can help steer the course set by the World Health Organization 2021-2030 roadmap on neglected tropical diseases. Gates Open Research, 2021, 5, 112.	2.0	4
38	How modelling can help steer the course set by the World Health Organization 2021-2030 roadmap on neglected tropical diseases. Gates Open Research, 0, 5, 112.	2.0	1
39	Modelling results on the impact of COVID-19 testing in schools. Lancet Infectious Diseases, The, 2022, 22, 915-916.	4.6	1
40	Diagnosing risk factors alongside mass drug administration using serial diagnostic testsâ€”which test first?. Transactions of the Royal Society of Tropical Medicine and Hygiene, 2018, 112, 342-348.	0.7	0
41	Estimating HIV, HCV and HSV2 incidence from emergency department serosurvey. Gates Open Research, 0, 5, 116.	2.0	0
42	Approximating Steady State Distributions for Household Structured Epidemic Models. Journal of Theoretical Biology, 2021, 534, 110974.	0.8	0