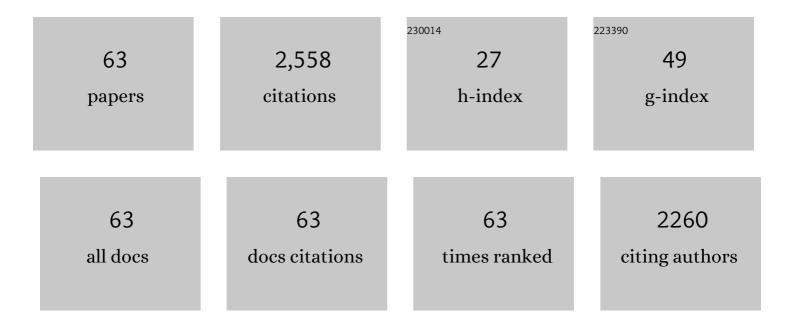
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	How can risk of COVID-19 transmission be minimised in domiciliary care for older people: development, parameterisation and initial results of a simple mathematical model. Epidemiology and Infection, 2022, 150, .	1.0	2
2	Network analysis of England's single parent household COVID-19 control policy impact: a proof-of-concept study. Epidemiology and Infection, 2022, , 1-20.	1.0	1
3	Optimal timing of one-shot interventions for epidemic control. PLoS Computational Biology, 2021, 17, e1008763.	1.5	44
4	The Impact of Contact Structure and Mixing on Control Measures and Disease-Induced Herd Immunity in Epidemic Models: A Mean-Field Model Perspective. Bulletin of Mathematical Biology, 2021, 83, 117.	0.9	8
5	Key questions for modelling COVID-19 exit strategies. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20201405.	1.2	106
6	Epidemic threshold in pairwise models for clustered networks: closures and fast correlations. Journal of Mathematical Biology, 2019, 79, 823-860.	0.8	7
7	Mean-field models for non-Markovian epidemics on networks. Journal of Mathematical Biology, 2018, 76, 755-778.	0.8	42
8	Edge-Based Compartmental Modelling of an SIR Epidemic on a Dual-Layer Static–Dynamic Multiplex Network with Tunable Clustering. Bulletin of Mathematical Biology, 2018, 80, 2698-2733.	0.9	9
9	Constraints and entropy in a model of network evolution. European Physical Journal B, 2017, 90, 1.	0.6	4
10	Super compact pairwise model for SIS epidemic on heterogeneous networks. Journal of Complex Networks, 2016, 4, 187-200.	1.1	15
11	Compact pairwise models for epidemics with multiple infectious stages on degree heterogeneous and clustered networks. Journal of Theoretical Biology, 2016, 407, 387-400.	0.8	4
12	Oscillating epidemics in a dynamic network model: stochastic and mean-field analysis. Journal of Mathematical Biology, 2016, 72, 1153-1176.	0.8	27
13	Beyond clustering: mean-field dynamics on networks with arbitrary subgraph composition. Journal of Mathematical Biology, 2016, 72, 255-281.	0.8	12
14	Solvable non-Markovian dynamic network. Physical Review E, 2015, 92, 042801.	0.8	19
15	Analysis of an epidemic model with awareness decay on regular random networks. Journal of Theoretical Biology, 2015, 365, 457-468.	0.8	27
16	Exact Equations for SIR Epidemics on Tree Graphs. Bulletin of Mathematical Biology, 2015, 77, 614-645.	0.9	33
17	Exact deterministic representation of Markovian \$\${ SIR}\$\$ S I R epidemics on networks with and without loops. Journal of Mathematical Biology, 2015, 70, 437-464.	0.8	28
18	Impact of constrained rewiring on network structure and node dynamics. Physical Review E, 2014, 90, 052806.	0.8	11

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19	Approximate Master Equations for Dynamical Processes on Graphs. Mathematical Modelling of Natural Phenomena, 2014, 9, 43-57.	0.9	7
20	Interdependency and hierarchy of exact and approximate epidemic models on networks. Journal of Mathematical Biology, 2014, 69, 183-211.	0.8	15
21	Higher-order structure and epidemic dynamics in clustered networks. Journal of Theoretical Biology, 2014, 348, 21-32.	0.8	31
22	A Class of Pairwise Models for Epidemic Dynamics on Weighted Networks. Bulletin of Mathematical Biology, 2013, 75, 466-490.	0.9	28
23	From exact stochastic to mean-field ODE models: a new approach to prove convergence results. IMA Journal of Applied Mathematics, 2013, 78, 945-964.	0.8	18
24	Modelling approaches for simple dynamic networks and applications to disease transmission models. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 1332-1355.	1.0	47
25	Epidemic threshold and control in a dynamic network. Physical Review E, 2012, 85, 016103.	0.8	56
26	Models to capture the potential for disease transmission in domestic sheep flocks. Preventive Veterinary Medicine, 2012, 106, 174-184.	0.7	6
27	Approximating evolutionary dynamics on networks using a Neighbourhood Configuration model. Journal of Theoretical Biology, 2012, 312, 13-21.	0.8	8
28	New Moment Closures Based on A Priori Distributions with Applications to Epidemic Dynamics. Bulletin of Mathematical Biology, 2012, 74, 1501-1515.	0.9	11
29	From Markovian to pairwise epidemic models and the performance of moment closure approximations. Journal of Mathematical Biology, 2012, 64, 1021-1042.	0.8	50
30	Differential equation approximations of stochastic network processes: An operator semigroup approach. Networks and Heterogeneous Media, 2012, 7, 43-58.	0.5	7
31	Multiple sources and routes of information transmission: Implications for epidemic dynamics. Mathematical Biosciences, 2011, 231, 197-209.	0.9	35
32	Tools to study trends in community structure: Application to fish and livestock trading networks. Preventive Veterinary Medicine, 2011, 99, 225-228.	0.7	19
33	Exact epidemic models on graphs using graph-automorphism driven lumping. Journal of Mathematical Biology, 2011, 62, 479-508.	0.8	89
34	The potential spread of highly pathogenic avian influenza virus via dynamic contacts between poultry premises in Great Britain. BMC Veterinary Research, 2011, 7, 59.	0.7	19
35	Can epidemic models describe the diffusion of topics across disciplines?. Journal of Informetrics, 2010, 4, 74-82.	1.4	71
36	Large-scale properties of clustered networks: implications for disease dynamics. Journal of Biological Dynamics, 2010, 4, 431-445.	0.8	20

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37	The impact of information transmission on epidemic outbreaks. Mathematical Biosciences, 2010, 225, 1-10.	0.9	172
38	A Contact-Network-Based Formulation of a Preferential Mixing Model. Bulletin of Mathematical Biology, 2009, 71, 888-905.	0.9	14
39	Contact structures in the poultry industry in Great Britain: Exploring transmission routes for a potential avian influenza virus epidemic BMC Veterinary Research, 2008, 4, 27.	0.7	67
40	A network approach to modeling population aggregation and genetic control of pest insects. Theoretical Population Biology, 2008, 74, 324-331.	0.5	12
41	The effect of network mixing patterns on epidemic dynamics and the efficacy of disease contact tracing. Journal of the Royal Society Interface, 2008, 5, 791-799.	1.5	67
42	Estimates for local and movement-based transmission of bovine tuberculosis in British cattle. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 1001-1005.	1.2	110
43	Comment on "Properties of highly clustered networks― Physical Review E, 2008, 78, 048101.	0.8	31
44	Disease dynamics over very different time-scales: foot-and-mouth disease and scrapie on the network of livestock movements in the UK. Journal of the Royal Society Interface, 2007, 4, 907-916.	1.5	143
45	Demographic risk factors for classical and atypical scrapie in Great Britain. Journal of General Virology, 2007, 88, 3486-3492.	1.3	35
46	Parasite strain coexistence in a heterogeneous host population. Oikos, 2006, 115, 495-503.	1.2	2
47	Infectious disease control using contact tracing in random and scale-free networks. Journal of the Royal Society Interface, 2006, 3, 55-62.	1.5	96
48	The network of sheep movements within Great Britain: network properties and their implications for infectious disease spread. Journal of the Royal Society Interface, 2006, 3, 669-677.	1.5	195
49	The effect of contact heterogeneity and multiple routes of transmission on final epidemic size. Mathematical Biosciences, 2006, 203, 124-136.	0.9	94
50	Parameterization of individual-based models: Comparisons with deterministic mean-field models. Journal of Theoretical Biology, 2006, 239, 289-297.	0.8	25
51	Demographic structure and pathogen dynamics on the network of livestock movements in Great Britain. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 1999-2007.	1.2	198
52	Modelling the initial spread of foot-and-mouth disease through animal movements. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 2729-2735.	1.2	131
53	Disease contact tracing in random and clustered networks. Proceedings of the Royal Society B: Biological Sciences, 2005, 272, 1407-1414.	1.2	88
54	Effects of constant electric fields on the buoyant stability of reaction fronts. Physical Review E, 2005, 71, 026224.	0.8	8

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55	Dispersion curves in the diffusional instability of autocatalytic reaction fronts. Physical Review E, 2005, 72, 026219.	0.8	18
56	Homogenization induced by chaotic mixing and diffusion in an oscillatory chemical reaction. Physical Review E, 2004, 70, 026216.	0.8	9
57	Noise-sustained oscillation and synchronization of excitable media with stirring. , 2004, 5471, 193.		0
58	The structure of flame filaments in chaotic flows. Physica D: Nonlinear Phenomena, 2003, 176, 67-81.	1.3	17
59	Combustion initiation and extinction in a 2D chaotic flow. Physica D: Nonlinear Phenomena, 2003, 183, 175-189.	1.3	20
60	Travelling waves in the Oregonator model for the BZ reaction. Physical Chemistry Chemical Physics, 2003, 5, 5448.	1.3	8
61	Synchronization and Oscillator Death in Oscillatory Media with Stirring. Physical Review Letters, 2003, 91, 084101.	2.9	35
62	Noise-Sustained Coherent Oscillation of Excitable Media in a Chaotic Flow. Physical Review Letters, 2003, 91, 150601.	2.9	18
63	Generation and analysis of networks with a prescribed degree sequence and subgraph family: higher-order structure matters. Journal of Complex Networks, 0, , cnw011.	1.1	9