Pieter Trapman

List of Publications by Year
in descending order

34 papers	1,721 citations	516215 16 h-index	395343 33 g-index
37 all docs	37 docs citations	37 times ranked	2264 citing authors

#	Article	IF	Citations
1	Commentary on the use of the reproduction number <i>R</i> during the COVID-19 pandemic. Statistical Methods in Medical Research, 2022, 31, 1675-1685.	0.7	18
2	Modelling: Understanding pandemics and how to control them. Epidemics, 2022, 39, 100588.	1.5	8
3	The risk for a new COVID-19 wave and how it depends on <i>R</i> ₀ , the current immunity level and current restrictions. Royal Society Open Science, 2021, 8, 210386.	1.1	5
4	Key questions for modelling COVID-19 exit strategies. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20201405.	1.2	106
5	A mathematical model reveals the influence of population heterogeneity on herd immunity to SARS-CoV-2. Science, 2020, 369, 846-849.	6.0	540
6	Who is the infector? General multi-type epidemics and real-time susceptibility processes. Advances in Applied Probability, 2019, 51, 606-631.	0.4	0
7	SIR epidemics and vaccination on random graphs with clustering. Journal of Mathematical Biology, 2019, 78, 2369-2398.	0.8	4
8	Who is the infector? Epidemic models with symptomatic and asymptomatic cases. Mathematical Biosciences, 2018, 301, 190-198.	0.9	33
9	Branching process approach for epidemics in dynamic partnership network. Journal of Mathematical Biology, 2018, 76, 265-294.	0.8	8
10	The Tail does not Determine the Size of the Giant. Journal of Statistical Physics, 2018, 173, 736-745.	0.5	2
11	Characterizing the Initial Phase of Epidemic Growth on Some Empirical Networks. Springer Proceedings in Mathematics and Statistics, 2018, , 315-334.	0.1	0
12	Inferring <i>R</i> ₀ in emerging epidemicsâ€”the effect of common population structure is small. Journal of the Royal Society Interface, 2016, 13, 20160288.	1.5	33
13	Reproduction numbers for epidemic models with households and other social structures II: Comparisons and implications for vaccination. Mathematical Biosciences, 2016, 274, 108-139.	0.9	24
14	Stochastic SIR epidemics in a population with households and schools. Journal of Mathematical Biology, 2016, 72, 1177-1193.	0.8	4
15	Inferring global network properties from egocentric data with applications to epidemics. Mathematical Medicine and Biology, 2015, 32, 101-114.	0.8	1
16	Eight challenges for network epidemic models. Epidemics, 2015, 10, 58-62.	1.5	147
17	Five challenges for stochastic epidemic models involving global transmission. Epidemics, 2015, 10, 54-57.	1.5	44
18	Five challenges for spatial epidemic models. Epidemics, 2015, 10, 68-71.	1.5	148

#	Article	IF	Citations
19	Stochastic Epidemics in Growing Populations. Bulletin of Mathematical Biology, 2014, 76, 985-996.	0.9	6
20	Epidemics on random intersection graphs. Annals of Applied Probability, 2014, 24, .	0.6	36
21	Splitting Trees Stopped when the First Clock Rings and Vervaat's Transformation. Journal of Applied Probability, 2013, 50, 208-227.	0.4	6
22	Reproduction numbers for epidemic models with households and other social structures. I. Definition and calculation of R0. Mathematical Biosciences, 2012, 235, 85-97.	0.9	65
23	Maximizing the Size of the Giant. Journal of Applied Probability, 2012, 49, 1156-1165.	0.4	3
24	Bounding basic characteristics of spatial epidemics with a new percolation model. Advances in Applied Probability, 2011, 43, 335-347.	0.4	7
25	The nosocomial transmission rate of animal-associated ST398 meticillin-resistant<i>Staphylococcus aureus</i>. Journal of the Royal Society Interface, 2011, 8, 578-584.	1.5	72
26	Bounding basic characteristics of spatial epidemics with a new percolation model. Advances in Applied Probability, 2011, 43, 335-347.	0.4	10
27	Analysis of a stochastic SIR epidemic on a random network incorporating household structure. Mathematical Biosciences, 2010, 224, 53-73.	0.9	123
28	Threshold behaviour and final outcome of an epidemic on a random network with household structure. Advances in Applied Probability, 2009, 41, 765-796.	0.4	12
29	A useful relationship between epidemiology and queueing theory: The distribution of the number of infectives at the moment of the first detection. Mathematical Biosciences, 2009, 219, 15-22.	0.9	28
30	Threshold behaviour and final outcome of an epidemic on a random network with household structure. Advances in Applied Probability, 2009, 41, 765-796.	0.4	61
31	Reproduction numbers for epidemics on networks using pair approximation. Mathematical Biosciences, 2007, 210, 464-489.	0.9	25
32	On analytical approaches to epidemics on networks. Theoretical Population Biology, 2007, 71, 160-173.	0.5	92
33	Estimation in branching processes with restricted observations. Advances in Applied Probability, 2006, 38, 1098-1115.	0.4	5
34	A branching model for the spread of infectious animal diseases in varying environments. Journal of Mathematical Biology, 2004, 49, 553-576.	0.8	15