Philip D O'neill

List of Publications by Year
in descending order

41 papers	1,066 citations	430874 18 h-index	414414 32 g-index
41 all docs	41 docs citations	41 times ranked	1095 citing authors

#	Article	IF	Citations
1	A tutorial introduction to Bayesian inference for stochastic epidemic models using Markov chain Monte Carlo methods. Mathematical Biosciences, 2002, 180, 103-114.	1.9	129
2	Analyses of infectious disease data from household outbreaks by Markov chain Monte Carlo methods. Journal of the Royal Statistical Society Series C: Applied Statistics, 2000, 49, 517-542.	1.0	102
3	Reproduction numbers and thresholds in stochastic epidemic models I. Homogeneous populations. Mathematical Biosciences, 1991, 107, 161-186.	1.9	63
4	Assessing the role of undetected colonization and isolation precautions in reducing Methicillin-Resistant Staphylococcus aureustransmission in intensive care units. BMC Infectious Diseases, 2010, 10, 29.	2.9	59
5	Estimation of measles vaccine efficacy and critical vaccination coverage in a highly vaccinated population. Journal of the Royal Society Interface, 2010, 7, 1537-1544.	3.4	59
6	Reconstructing transmission trees for communicable diseases using densely sampled genetic data. Annals of Applied Statistics, 2016, 10, 395-417.	1.1	52
7	Introduction and snapshot review: Relating infectious disease transmission models to data. Statistics in Medicine, 2010, 29, 2069-2077.	1.6	51
8	Bayesian inference for stochastic multitype epidemics in structured populations via random graphs. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2005, 67, 731-745.	2.2	43
9	Estimating the Effectiveness of Isolation and Decolonization Measures in Reducing Transmission of Methicillin-resistant Staphylococcus aureus in Hospital General Wards. American Journal of Epidemiology, 2013, 177, 1306-1313.	3.4	43
10	Inference in disease transmission experiments by using stochastic epidemic models. Journal of the Royal Statistical Society Series C: Applied Statistics, 2005, 54, 349-366.	1.0	40
11	Bayesian estimation of the basic reproduction number in stochastic epidemic models. Bayesian Analysis, 2008, 3, .	3.0	38
12	Bayesian model choice and infection route modelling in an outbreak of Norovirus. Statistics in Medicine, 2005, 24, 2011-2024.	1.6	36
13	Bayesian inference for epidemics with two levels of mixing. Scandinavian Journal of Statistics, 2005, 32, 265-280.	1.4	29
14	Estimating Vaccine Effects on Transmission of Infection from Household Outbreak Data. Biometrics, 2003, 59, 467-475.	1.4	27
15	Bayesian non-parametric inference for stochastic epidemic models using Gaussian Processes. Biostatistics, 2016, 17, 619-633.	1.5	24
16	Computation of final outcome probabilities for the generalised stochastic epidemic. Statistics and Computing, 2006, 16, 309-317.	1.5	23
17	Control of emerging infectious diseases using responsive imperfect vaccination and isolation. Mathematical Biosciences, 2008, 216, 100-113.	1.9	20
18	Estimation of Vaccine Efficacy and Critical Vaccination Coverage in Partially Observed Outbreaks. PLoS Computational Biology, 2013, 9, e1003061.	3.2	20

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19	Bayesian inference for stochastic multitype epidemics in structured populations using sample data. Biostatistics, 2009, 10, 779-791.	1.5	18
20	Stochastic Epidemic Models in Structured Populations Featuring Dynamic Vaccination and Isolation. Journal of Applied Probability, 2007, 44, 571-585.	0.7	18
21	Exact Bayesian Inference and Model Selection for Stochastic Models of Epidemics Among a Community of Households. Scandinavian Journal of Statistics, 2007, 34, 259-274.	1.4	17
22	Estimating vaccine effects from studies of outbreaks in household pairs. Statistics in Medicine, 2006, 25, 1079-1093.	1.6	16
23	Modelling and Bayesian analysis of the Abakaliki smallpox data. Epidemics, 2017, 19, 13-23.	3.0	14
24	Threshold behaviour of emerging epidemics featuring contact tracing. Advances in Applied Probability, 2011, 43, 1048-1065.	0.7	13
25	Bayesian model choice for epidemic models with two levels of mixing. Biostatistics, 2014, 15, 46-59.	1.5	12
26	Bayesian Nonparametrics for Stochastic Epidemic Models. Statistical Science, 2018, 33, .	2.8	12
27	Stochastic Epidemic Models in Structured Populations Featuring Dynamic Vaccination and Isolation. Journal of Applied Probability, 2007, 44, 571-585.	0.7	11
28	Inference for Epidemics with Three Levels of Mixing: Methodology and Application to a Measles Outbreak. Scandinavian Journal of Statistics, 2011, 38, 578-599.	1.4	11
29	Modelling and inference for epidemic models featuring non-linear infection pressure. Mathematical Biosciences, 2012, 238, 38-48.	1.9	11
30	Stochastic epidemic models featuring contact tracing with delays. Mathematical Biosciences, 2015, 266, 23-35.	1.9	11
31	Bayesian Inference for a Stochastic Epidemic Model with Uncertain Numbers of Susceptibles of Several Types. Australian and New Zealand Journal of Statistics, 2003, 45, 491-502.	0.9	9
32	Perfect simulation for Reed-Frost epidemic models. Statistics and Computing, 2003, 13, 37-44.	1.5	8
33	Evaluating hospital infection control measures for antimicrobial-resistant pathogens using stochastic transmission models: Application to vancomycin-resistant enterococci in intensive care units. Statistical Methods in Medical Research, 2018, 27, 269-285.	1.5	8
34	Pair-based likelihood approximations for stochastic epidemic models. Biostatistics, 2019, 22, 575-597.	1.5	4
35	Assessing the Impact of Intervention Delays on Stochastic Epidemics. Methodology and Computing in Applied Probability, 2013, 15, 803-820.	1.2	3
36	A Bayesian Nonparametric Analysis of the 2003 Outbreak of Highly Pathogenic Avian Influenza in the Netherlands. Journal of the Royal Statistical Society Series C: Applied Statistics, 2021, 70, 1323-1343.	1.0	3

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37	Bayes Factors for Partially Observed Stochastic Epidemic Models. Bayesian Analysis, 2019, 14, .	3.0	3
38	Modelling the effect of antimicrobial treatment on carriage of hospital pathogens with application to MRSA. Biostatistics, 2016, 17, 65-78.	1.5	2
39	Bayesian nonparametric inference for heterogeneously mixing infectious disease models. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2118425119.	7.1	2
40	Constructing Population Processes with Specified Quasi-Stationary Distributions. Stochastic Models, 2007, 23, 439-449.	0.5	1
41	Modelling, Bayesian inference, and model assessment for nosocomial pathogens using whole‐genome‐sequence data. Statistics in Medicine, 2020, 39, 1746-1765.	1.6	1