

Philip D O'neill

List of Publications by Year in descending order

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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	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
2	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
3	Modelling, Bayesian inference, and model assessment for nosocomial pathogens using whole-genome sequence data. Statistics in Medicine, 2020, 39, 1746-1765.	1.6	1
4	Pair-based likelihood approximations for stochastic epidemic models. Biostatistics, 2019, 22, 575-597.	1.5	4
5	Bayes Factors for Partially Observed Stochastic Epidemic Models. Bayesian Analysis, 2019, 14, .	3.0	3
6	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
7	Bayesian Nonparametrics for Stochastic Epidemic Models. Statistical Science, 2018, 33, .	2.8	12
8	Modelling and Bayesian analysis of the Abakaliki smallpox data. Epidemics, 2017, 19, 13-23.	3.0	14
9	Reconstructing transmission trees for communicable diseases using densely sampled genetic data. Annals of Applied Statistics, 2016, 10, 395-417.	1.1	52
10	Bayesian non-parametric inference for stochastic epidemic models using Gaussian Processes. Biostatistics, 2016, 17, 619-633.	1.5	24
11	Modelling the effect of antimicrobial treatment on carriage of hospital pathogens with application to MRSA. Biostatistics, 2016, 17, 65-78.	1.5	2
12	Stochastic epidemic models featuring contact tracing with delays. Mathematical Biosciences, 2015, 266, 23-35.	1.9	11
13	Bayesian model choice for epidemic models with two levels of mixing. Biostatistics, 2014, 15, 46-59.	1.5	12
14	Assessing the Impact of Intervention Delays on Stochastic Epidemics. Methodology and Computing in Applied Probability, 2013, 15, 803-820.	1.2	3
15	Estimation of Vaccine Efficacy and Critical Vaccination Coverage in Partially Observed Outbreaks. PLoS Computational Biology, 2013, 9, e1003061.	3.2	20
16	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
17	Modelling and inference for epidemic models featuring non-linear infection pressure. Mathematical Biosciences, 2012, 238, 38-48.	1.9	11
18	Threshold behaviour of emerging epidemics featuring contact tracing. Advances in Applied Probability, 2011, 43, 1048-1065.	0.7	13

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19	Inference for Epidemics with Three Levels of Mixing: Methodology and Application to a Measles Outbreak. <i>Scandinavian Journal of Statistics</i> , 2011, 38, 578-599.	1.4	11
20	Assessing the role of undetected colonization and isolation precautions in reducing Methicillin-Resistant <i>Staphylococcus aureus</i> transmission in intensive care units. <i>BMC Infectious Diseases</i> , 2010, 10, 29.	2.9	59
21	Introduction and snapshot review: Relating infectious disease transmission models to data. <i>Statistics in Medicine</i> , 2010, 29, 2069-2077.	1.6	51
22	Estimation of measles vaccine efficacy and critical vaccination coverage in a highly vaccinated population. <i>Journal of the Royal Society Interface</i> , 2010, 7, 1537-1544.	3.4	59
23	Bayesian inference for stochastic multitype epidemics in structured populations using sample data. <i>Biostatistics</i> , 2009, 10, 779-791.	1.5	18
24	Control of emerging infectious diseases using responsive imperfect vaccination and isolation. <i>Mathematical Biosciences</i> , 2008, 216, 100-113.	1.9	20
25	Bayesian estimation of the basic reproduction number in stochastic epidemic models. <i>Bayesian Analysis</i> , 2008, 3, .	3.0	38
26	Constructing Population Processes with Specified Quasi-Stationary Distributions. <i>Stochastic Models</i> , 2007, 23, 439-449.	0.5	1
27	Stochastic Epidemic Models in Structured Populations Featuring Dynamic Vaccination and Isolation. <i>Journal of Applied Probability</i> , 2007, 44, 571-585.	0.7	11
28	Exact Bayesian Inference and Model Selection for Stochastic Models of Epidemics Among a Community of Households. <i>Scandinavian Journal of Statistics</i> , 2007, 34, 259-274.	1.4	17
29	Stochastic Epidemic Models in Structured Populations Featuring Dynamic Vaccination and Isolation. <i>Journal of Applied Probability</i> , 2007, 44, 571-585.	0.7	18
30	Estimating vaccine effects from studies of outbreaks in household pairs. <i>Statistics in Medicine</i> , 2006, 25, 1079-1093.	1.6	16
31	Computation of final outcome probabilities for the generalised stochastic epidemic. <i>Statistics and Computing</i> , 2006, 16, 309-317.	1.5	23
32	Bayesian inference for stochastic multitype epidemics in structured populations via random graphs. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2005, 67, 731-745.	2.2	43
33	Inference in disease transmission experiments by using stochastic epidemic models. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2005, 54, 349-366.	1.0	40
34	Bayesian inference for epidemics with two levels of mixing. <i>Scandinavian Journal of Statistics</i> , 2005, 32, 265-280.	1.4	29
35	Bayesian model choice and infection route modelling in an outbreak of Norovirus. <i>Statistics in Medicine</i> , 2005, 24, 2011-2024.	1.6	36
36	Perfect simulation for Reed-Frost epidemic models. <i>Statistics and Computing</i> , 2003, 13, 37-44.	1.5	8

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37	Estimating Vaccine Effects on Transmission of Infection from Household Outbreak Data. <i>Biometrics</i> , 2003, 59, 467-475.	1.4	27
38	Bayesian Inference for a Stochastic Epidemic Model with Uncertain Numbers of Susceptibles of Several Types. <i>Australian and New Zealand Journal of Statistics</i> , 2003, 45, 491-502.	0.9	9
39	A tutorial introduction to Bayesian inference for stochastic epidemic models using Markov chain Monte Carlo methods. <i>Mathematical Biosciences</i> , 2002, 180, 103-114.	1.9	129
40	Analyses of infectious disease data from household outbreaks by Markov chain Monte Carlo methods. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2000, 49, 517-542.	1.0	102
41	Reproduction numbers and thresholds in stochastic epidemic models I. Homogeneous populations. <i>Mathematical Biosciences</i> , 1991, 107, 161-186.	1.9	63