

# Adrian Esterman

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73  
papers

1,237  
citations

20  
h-index

32  
g-index

75  
ext. papers

1,498  
ext. citations

3.8  
avg, IF

4.87  
L-index

#	Paper	IF	Citations
73	Dataset of seized wildlife and their intended uses. <i>Data in Brief</i> , <b>2021</b> , 39, 107531	1.2	0
72	Optimised prophylactic vaccination in metapopulations. <i>Epidemics</i> , <b>2021</b> , 34, 100420	5.1	0
71	Development of an influenza pandemic decision support tool linking situational analytics to national response policy. <i>Epidemics</i> , <b>2021</b> , 36, 100478	5.1	0
70	Elucidating user behaviours in a digital health surveillance system to correct prevalence estimates. <i>Epidemics</i> , <b>2020</b> , 33, 100404	5.1	0
69	Infectious disease pandemic planning and response: Incorporating decision analysis. <i>PLoS Medicine</i> , <b>2020</b> , 17, e1003018	11.6	37
68	Plight of the commons: 17 years of wildlife trafficking in Cambodia. <i>Biological Conservation</i> , <b>2020</b> , 241, 108379	6.2	9
67	Identification of the relative timing of infectiousness and symptom onset for outbreak control. <i>Journal of Theoretical Biology</i> , <b>2020</b> , 486, 110079	2.3	2
66	Influencing public health policy with data-informed mathematical models of infectious diseases: Recent developments and new challenges. <i>Epidemics</i> , <b>2020</b> , 32, 100393	5.1	14
65	Key questions for modelling COVID-19 exit strategies. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2020</b> , 287, 20201405	4.4	65
64	Bayesian model discrimination for partially-observed epidemic models. <i>Mathematical Biosciences</i> , <b>2019</b> , 317, 108266	3.9	0
63	A Y-chromosome shredding gene drive for controlling pest vertebrate populations. <i>ELife</i> , <b>2019</b> , 8,	8.9	24
62	Locally Fixed Alleles: A method to localize gene drive to island populations. <i>Scientific Reports</i> , <b>2019</b> , 9, 15821	4.9	29
61	Predicting the Risk of Biological Invasions Using Environmental Similarity and Transport Network Connectedness. <i>Risk Analysis</i> , <b>2019</b> , 39, 35-53	3.9	6
60	The role of antimalarial quality in the emergence and transmission of resistance. <i>Medical Hypotheses</i> , <b>2018</b> , 111, 49-54	3.8	6
59	The distribution of the time taken for an epidemic to spread between two communities. <i>Mathematical Biosciences</i> , <b>2018</b> , 303, 139-147	3.9	3
58	Characterising seasonal influenza epidemiology using primary care surveillance data. <i>PLoS Computational Biology</i> , <b>2018</b> , 14, e1006377	5	13
57	Scabies in residential care homes: Modelling, inference and interventions for well-connected population sub-units. <i>PLoS Computational Biology</i> , <b>2018</b> , 14, e1006046	5	11

56	Estimating the basic reproductive number during the early stages of an emerging epidemic. <i>Theoretical Population Biology</i> , <b>2018</b> , 119, 26-36	1.2	11
55	Designing group dose-response studies in the presence of transmission. <i>Mathematical Biosciences</i> , <b>2018</b> , 304, 62-78	3.9	2
54	Pest demography critically determines the viability of synthetic gene drives for population control. <i>Mathematical Biosciences</i> , <b>2018</b> , 305, 160-169	3.9	13
53	An induced natural selection heuristic for finding optimal Bayesian experimental designs. <i>Computational Statistics and Data Analysis</i> , <b>2018</b> , 126, 112-124	1.6	7
52	Characterising pandemic severity and transmissibility from data collected during first few hundred studies. <i>Epidemics</i> , <b>2017</b> , 19, 61-73	5.1	23
51	Modelling the impact of antimalarial quality on the transmission of sulfadoxine-pyrimethamine resistance in. <i>Infectious Disease Modelling</i> , <b>2017</b> , 2, 161-187	15.7	2
50	The Illegal Wildlife Trade Is a Likely Source of Alien Species. <i>Conservation Letters</i> , <b>2017</b> , 10, 690-698	6.9	18
49	Hybrid Markov chain models of S-I-R disease dynamics. <i>Journal of Mathematical Biology</i> , <b>2017</b> , 75, 521-541		8
48	Intervention to maximise the probability of epidemic fade-out. <i>Mathematical Biosciences</i> , <b>2017</b> , 293, 1-10	3.9	3
47	Managing the risk of wildlife disease introduction: pathway-level biosecurity for preventing the introduction of alien ranaviruses. <i>Journal of Applied Ecology</i> , <b>2017</b> , 54, 234-241	5.8	11
46	The Impact of Antimalarial Use on the Emergence and Transmission of Plasmodium falciparum Resistance: A Scoping Review of Mathematical Models. <i>Tropical Medicine and Infectious Disease</i> , <b>2017</b> , 2,	3.5	5
45	Inference of epidemiological parameters from household stratified data. <i>PLoS ONE</i> , <b>2017</b> , 12, e0185910	3.7	5
44	A data-driven model for influenza transmission incorporating media effects. <i>Royal Society Open Science</i> , <b>2016</b> , 3, 160481	3.3	18
43	Choice of Antiviral Allocation Scheme for Pandemic Influenza Depends on Strain Transmissibility, Delivery Delay and Stockpile Size. <i>Bulletin of Mathematical Biology</i> , <b>2016</b> , 78, 293-321	2.1	2
42	The probability of epidemic fade-out is non-monotonic in transmission rate for the Markovian SIR model with demography. <i>Journal of Theoretical Biology</i> , <b>2016</b> , 393, 170-8	2.3	5
41	Integrative Analysis of the Physical Transport Network into Australia. <i>PLoS ONE</i> , <b>2016</b> , 11, e0148831	3.7	10
40	Where did all the pangolins go? International CITES trade in pangolin species. <i>Global Ecology and Conservation</i> , <b>2016</b> , 8, 241-253	2.8	89
39	On the efficient determination of optimal Bayesian experimental designs using ABC: A case study in optimal observation of epidemics. <i>Journal of Statistical Planning and Inference</i> , <b>2016</b> , 172, 1-15	0.8	6

38	Quantifying the effect of experimental design choices for in vitro scratch assays. <i>Journal of Theoretical Biology</i> , <b>2016</b> , 400, 19-31	2.3	33
37	Incomplete penetrance: The role of stochasticity in developmental cell colonization. <i>Journal of Theoretical Biology</i> , <b>2015</b> , 380, 309-14	2.3	7
36	Optimal prophylactic vaccination in segregated populations: When can we improve on the equalising strategy?. <i>Epidemics</i> , <b>2015</b> , 11, 7-13	5.1	8
35	Contact tracing and antiviral prophylaxis in the early stages of a pandemic: the probability of a major outbreak. <i>Mathematical Medicine and Biology</i> , <b>2015</b> , 32, 331-43	1.3	6
34	Understanding the biological invasion risk posed by the global wildlife trade: propagule pressure drives the introduction and establishment of Nearctic turtles. <i>Global Change Biology</i> , <b>2015</b> , 21, 1078-91	11.4	33
33	Statistical description of wetland hydrological connectivity to the River Murray in South Australia under both natural and regulated conditions. <i>Journal of Hydrology</i> , <b>2015</b> , 531, 929-939	6	13
32	Temporal modelling of ballast water discharge and ship-mediated invasion risk to Australia. <i>Royal Society Open Science</i> , <b>2015</b> , 2, 150039	3.3	15
31	Computation of epidemic final size distributions. <i>Journal of Theoretical Biology</i> , <b>2015</b> , 367, 159-165	2.3	20
30	Simulation-based Bayesian inference for epidemic models. <i>Computational Statistics and Data Analysis</i> , <b>2014</b> , 71, 434-447	1.6	39
29	On the derivation of approximations to cellular automata models and the assumption of independence. <i>Mathematical Biosciences</i> , <b>2014</b> , 253, 63-71	3.9	7
28	The effect of clumped population structure on the variability of spreading dynamics. <i>Journal of Theoretical Biology</i> , <b>2014</b> , 359, 45-53	2.3	7
27	Interpreting scratch assays using pair density dynamics and approximate Bayesian computation. <i>Open Biology</i> , <b>2014</b> , 4, 140097	7	31
26	Approximating spatially exclusive invasion processes. <i>Physical Review E</i> , <b>2014</b> , 89, 052709	2.4	2
25	Optimal use of GPS transmitter for estimating species migration rate. <i>Ecological Modelling</i> , <b>2013</b> , 249, 37-41	3	5
24	Epidemiological consequences of household-based antiviral prophylaxis for pandemic influenza. <i>Journal of the Royal Society Interface</i> , <b>2013</b> , 10, 20121019	4.1	28
23	Estimating a Markovian epidemic model using household serial interval data from the early phase of an epidemic. <i>PLoS ONE</i> , <b>2013</b> , 8, e73420	3.7	9
22	On parameter estimation in population models III: time-inhomogeneous processes and observation error. <i>Theoretical Population Biology</i> , <b>2012</b> , 82, 1-17	1.2	7
21	Invasion of infectious diseases in finite homogeneous populations. <i>Journal of Theoretical Biology</i> , <b>2011</b> , 289, 83-9	2.3	18

20	Disturbance affects short-term facilitation, but not long-term saturation, of exotic plant invasion in New Zealand forest. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2011</b> , 278, 1457-66	4.4	15
19	Measuring social networks in British primary schools through scientific engagement. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2011</b> , 278, 1467-75	4.4	49
18	Calculation of disease dynamics in a population of households. <i>PLoS ONE</i> , <b>2010</b> , 5, e9666	3.7	35
17	Modelling population processes with random initial conditions. <i>Mathematical Biosciences</i> , <b>2010</b> , 223, 142-50	3.9	4
16	Computationally exact methods for stochastic periodic dynamics: Spatiotemporal dispersal and temporally forced transmission. <i>Journal of Theoretical Biology</i> , <b>2010</b> , 262, 14-22	2.3	4
15	Simple rules for ranking and optimally managing metapopulations. <i>Ecological Modelling</i> , <b>2010</b> , 221, 2515-2520	3.7	7
14	Integrating stochasticity and network structure into an epidemic model. <i>Journal of the Royal Society Interface</i> , <b>2009</b> , 6, 761-74	4.1	49
13	On parameter estimation in population models II: multi-dimensional processes and transient dynamics. <i>Theoretical Population Biology</i> , <b>2009</b> , 75, 123-32	1.2	32
12	Efficient methods for studying stochastic disease and population dynamics. <i>Theoretical Population Biology</i> , <b>2009</b> , 75, 133-41	1.2	11
11	A note on density dependence in population models. <i>Ecological Modelling</i> , <b>2009</b> , 220, 3472-3474	3	20
10	On methods for studying stochastic disease dynamics. <i>Journal of the Royal Society Interface</i> , <b>2008</b> , 5, 171-81	4.1	130
9	A comparison of models for predicting population persistence. <i>Ecological Modelling</i> , <b>2007</b> , 201, 19-26	3	11
8	On costs and decisions in population management. <i>Ecological Modelling</i> , <b>2007</b> , 201, 60-66	3	8
7	Catastrophe management and inter-reserve distance for marine reserve networks. <i>Ecological Modelling</i> , <b>2007</b> , 201, 82-88	3	11
6	Estimation for queues from queue length data. <i>Queueing Systems</i> , <b>2007</b> , 55, 131-138	1.7	26
5	A stochastic metapopulation model accounting for habitat dynamics. <i>Journal of Mathematical Biology</i> , <b>2006</b> , 52, 788-806	2	26
4	Stochastic models for mainland-island metapopulations in static and dynamic landscapes. <i>Bulletin of Mathematical Biology</i> , <b>2006</b> , 68, 417-49	2.1	15
3	On parameter estimation in population models. <i>Theoretical Population Biology</i> , <b>2006</b> , 70, 498-510	1.2	32

2 Extinction times for a birth-death process with two phases. *Mathematical Biosciences*, **2006**, 202, 310-22 3,9 5

1 Connecting surveillance and population-level influenza incidence 2