Adrian Esterman

List of Publications by Citations

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	On methods for studying stochastic disease dynamics. *Journal of the Royal Society Interface*, **2008**, 5, 171-81	4.1	130
72	Where did all the pangolins go? International CITES trade in pangolin species. *Global Ecology and Conservation*, **2016**, 8, 241-253	2.8	89
71	Key questions for modelling COVID-19 exit strategies. *Proceedings of the Royal Society B: Biological Sciences*, **2020**, 287, 20201405	4.4	65
70	Integrating stochasticity and network structure into an epidemic model. *Journal of the Royal Society Interface*, **2009**, 6, 761-74	4.1	49
69	Measuring social networks in British primary schools through scientific engagement. *Proceedings of the Royal Society B: Biological Sciences*, **2011**, 278, 1467-75	4.4	49
68	Simulation-based Bayesian inference for epidemic models. *Computational Statistics and Data Analysis*, **2014**, 71, 434-447	1.6	39
67	Infectious disease pandemic planning and response: Incorporating decision analysis. *PLoS Medicine*, **2020**, 17, e1003018	11.6	37
66	Calculation of disease dynamics in a population of households. *PLoS ONE*, **2010**, 5, e9666	3.7	35
65	Understanding the biological invasion risk posed by the global wildlife trade: propagule pressure drives the introduction and establishment of Nearctic turtles. *Global Change Biology*, **2015**, 21, 1078-91	11.4	33
64	Quantifying the effect of experimental design choices for in vitro scratch assays. *Journal of Theoretical Biology*, **2016**, 400, 19-31	2.3	33
63	On parameter estimation in population models II: multi-dimensional processes and transient dynamics. *Theoretical Population Biology*, **2009**, 75, 123-32	1.2	32
62	On parameter estimation in population models. *Theoretical Population Biology*, **2006**, 70, 498-510	1.2	32
61	Interpreting scratch assays using pair density dynamics and approximate Bayesian computation. *Open Biology*, **2014**, 4, 140097	7	31
60	Locally Fixed Alleles: A method to localize gene drive to island populations. *Scientific Reports*, **2019**, 9, 15821	4.9	29
59	Epidemiological consequences of household-based antiviral prophylaxis for pandemic influenza. *Journal of the Royal Society Interface*, **2013**, 10, 20121019	4.1	28
58	Estimation for queues from queue length data. *Queueing Systems*, **2007**, 55, 131-138	1.7	26
57	A stochastic metapopulation model accounting for habitat dynamics. *Journal of Mathematical Biology*, **2006**, 52, 788-806	2	26

56	A Y-chromosome shredding gene drive for controlling pest vertebrate populations. *ELife*, **2019**, 8,	8.9	24
55	Characterising pandemic severity and transmissibility from data collected during first few hundred studies. *Epidemics*, **2017**, 19, 61-73	5.1	23
54	Computation of epidemic final size distributions. *Journal of Theoretical Biology*, **2015**, 367, 159-165	2.3	20
53	A note on density dependence in population models. *Ecological Modelling*, **2009**, 220, 3472-3474	3	20
52	The Illegal Wildlife Trade Is a Likely Source of Alien Species. *Conservation Letters*, **2017**, 10, 690-698	6.9	18
51	A data-driven model for influenza transmission incorporating media effects. *Royal Society Open Science*, **2016**, 3, 160481	3.3	18
50	Invasion of infectious diseases in finite homogeneous populations. *Journal of Theoretical Biology*, **2011**, 289, 83-9	2.3	18
49	Temporal modelling of ballast water discharge and ship-mediated invasion risk to Australia. *Royal Society Open Science*, **2015**, 2, 150039	3.3	15
48	Disturbance affects short-term facilitation, but not long-term saturation, of exotic plant invasion in New Zealand forest. *Proceedings of the Royal Society B: Biological Sciences*, **2011**, 278, 1457-66	4.4	15
47	Stochastic models for mainland-island metapopulations in static and dynamic landscapes. *Bulletin of Mathematical Biology*, **2006**, 68, 417-49	2.1	15
46	Influencing public health policy with data-informed mathematical models of infectious diseases: Recent developments and new challenges. *Epidemics*, **2020**, 32, 100393	5.1	14
45	Characterising seasonal influenza epidemiology using primary care surveillance data. *PLoS Computational Biology*, **2018**, 14, e1006377	5	13
44	Statistical description of wetland hydrological connectivity to the River Murray in South Australia under both natural and regulated conditions. *Journal of Hydrology*, **2015**, 531, 929-939	6	13
43	Pest demography critically determines the viability of synthetic gene drives for population control. *Mathematical Biosciences*, **2018**, 305, 160-169	3.9	13
42	Scabies in residential care homes: Modelling, inference and interventions for well-connected population sub-units. *PLoS Computational Biology*, **2018**, 14, e1006046	5	11
41	Managing the risk of wildlife disease introduction: pathway-level biosecurity for preventing the introduction of alien ranaviruses. *Journal of Applied Ecology*, **2017**, 54, 234-241	5.8	11
40	Efficient methods for studying stochastic disease and population dynamics. *Theoretical Population Biology*, **2009**, 75, 133-41	1.2	11
39	A comparison of models for predicting population persistence. *Ecological Modelling*, **2007**, 201, 19-26	3	11

38	Catastrophe management and inter-reserve distance for marine reserve networks. *Ecological Modelling*, **2007**, 201, 82-88	3	11
37	Estimating the basic reproductive number during the early stages of an emerging epidemic. *Theoretical Population Biology*, **2018**, 119, 26-36	1.2	11
36	Integrative Analysis of the Physical Transport Network into Australia. *PLoS ONE*, **2016**, 11, e0148831	3.7	10
35	Estimating a Markovian epidemic model using household serial interval data from the early phase of an epidemic. *PLoS ONE*, **2013**, 8, e73420	3.7	9
34	Plight of the commons: 17 years of wildlife trafficking in Cambodia. *Biological Conservation*, **2020**, 241, 108379	6.2	9
33	Hybrid Markov chain models of S-I-R disease dynamics. *Journal of Mathematical Biology*, **2017**, 75, 521-541	2	8
32	Optimal prophylactic vaccination in segregated populations: When can we improve on the equalising strategy?. *Epidemics*, **2015**, 11, 7-13	5.1	8
31	On costs and decisions in population management. *Ecological Modelling*, **2007**, 201, 60-66	3	8
30	Incomplete penetrance: The role of stochasticity in developmental cell colonization. *Journal of Theoretical Biology*, **2015**, 380, 309-14	2.3	7
29	On the derivation of approximations to cellular automata models and the assumption of independence. *Mathematical Biosciences*, **2014**, 253, 63-71	3.9	7
28	The effect of clumped population structure on the variability of spreading dynamics. *Journal of Theoretical Biology*, **2014**, 359, 45-53	2.3	7
27	On parameter estimation in population models III: time-inhomogeneous processes and observation error. *Theoretical Population Biology*, **2012**, 82, 1-17	1.2	7
26	Simple rules for ranking and optimally managing metapopulations. *Ecological Modelling*, **2010**, 221, 2515-2520	3	7
25	An induced natural selection heuristic for finding optimal Bayesian experimental designs. *Computational Statistics and Data Analysis*, **2018**, 126, 112-124	1.6	7
24	Contact tracing and antiviral prophylaxis in the early stages of a pandemic: the probability of a major outbreak. *Mathematical Medicine and Biology*, **2015**, 32, 331-43	1.3	6
23	The role of antimalarial quality in the emergence and transmission of resistance. *Medical Hypotheses*, **2018**, 111, 49-54	3.8	6
22	On the efficient determination of optimal Bayesian experimental designs using ABC: A case study in optimal observation of epidemics. *Journal of Statistical Planning and Inference*, **2016**, 172, 1-15	0.8	6
21	Predicting the Risk of Biological Invasions Using Environmental Similarity and Transport Network Connectedness. *Risk Analysis*, **2019**, 39, 35-53	3.9	6

20	The probability of epidemic fade-out is non-monotonic in transmission rate for the Markovian SIR model with demography. *Journal of Theoretical Biology*, **2016**, 393, 170-8	2.3	5
19	Optimal use of GPS transmitter for estimating species migration rate. *Ecological Modelling*, **2013**, 249, 37-41	3	5
18	The Impact of Antimalarial Use on the Emergence and Transmission of Plasmodium falciparum Resistance: A Scoping Review of Mathematical Models. *Tropical Medicine and Infectious Disease*, **2017**, 2,	3.5	5
17	Extinction times for a birth-death process with two phases. *Mathematical Biosciences*, **2006**, 202, 310-22	3.9	5
16	Inference of epidemiological parameters from household stratified data. *PLoS ONE*, **2017**, 12, e0185910	3.7	5
15	Modelling population processes with random initial conditions. *Mathematical Biosciences*, **2010**, 223, 142-50	3.9	4
14	Computationally exact methods for stochastic periodic dynamics: Spatiotemporal dispersal and temporally forced transmission. *Journal of Theoretical Biology*, **2010**, 262, 14-22	2.3	4
13	The distribution of the time taken for an epidemic to spread between two communities. *Mathematical Biosciences*, **2018**, 303, 139-147	3.9	3
12	Intervention to maximise the probability of epidemic fade-out. *Mathematical Biosciences*, **2017**, 293, 1-10	3.9	3
11	Modelling the impact of antimalarial quality on the transmission of sulfadoxine-pyrimethamine resistance in. *Infectious Disease Modelling*, **2017**, 2, 161-187	15.7	2
10	Choice of Antiviral Allocation Scheme for Pandemic Influenza Depends on Strain Transmissibility, Delivery Delay and Stockpile Size. *Bulletin of Mathematical Biology*, **2016**, 78, 293-321	2.1	2
9	Approximating spatially exclusive invasion processes. *Physical Review E*, **2014**, 89, 052709	2.4	2
8	Connecting surveillance and population-level influenza incidence		2
7	Identification of the relative timing of infectiousness and symptom onset for outbreak control. *Journal of Theoretical Biology*, **2020**, 486, 110079	2.3	2
6	Designing group dose-response studies in the presence of transmission. *Mathematical Biosciences*, **2018**, 304, 62-78	3.9	2
5	Elucidating user behaviours in a digital health surveillance system to correct prevalence estimates. *Epidemics*, **2020**, 33, 100404	5.1	0
4	Bayesian model discrimination for partially-observed epidemic models. *Mathematical Biosciences*, **2019**, 317, 108266	3.9	0
3	Dataset of seized wildlife and their intended uses. *Data in Brief*, **2021**, 39, 107531	1.2	0

2	Optimised prophylactic vaccination in metapopulations. *Epidemics*, **2021**, 34, 100420	5.1	0
1	Development of an influenza pandemic decision support tool linking situational analytics to national response policy. *Epidemics*, **2021**, 36, 100478	5.1	0