Aaron A King

List of Publications by Year
in descending order

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69 papers	5,486 citations	126907 33 h-index	88630 70 g-index
78 all docs	78 docs citations	78 times ranked	6114 citing authors

#	Article	IF	Citations
1	Phylogenetic Comparative Analysis: A Modeling Approach for Adaptive Evolution. American Naturalist, 2004, 164, 683-695.	2.1	1,212
2	Inapparent infections and cholera dynamics. Nature, 2008, 454, 877-880.	27.8	380
3	Inference for nonlinear dynamical systems. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18438-18443.	7.1	367
4	Interactions between serotypes of dengue highlight epidemiological impact of cross-immunity. Journal of the Royal Society Interface, 2013, 10, 20130414.	3.4	254
5	Plug-and-play inference for disease dynamics: measles in large and small populations as a case study. Journal of the Royal Society Interface, 2010, 7, 271-283.	3.4	222
6	Contact Network Structure Explains the Changing Epidemiology of Pertussis. Science, 2010, 330, 982-985.	12.6	186
7	Avoidable errors in the modelling of outbreaks of emerging pathogens, with special reference to Ebola. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20150347.	2.6	185
8	Statistical Inference for Partially Observed Markov Processes via theRPackagepomp. Journal of Statistical Software, 2016, 69, .	3.7	173
9	Time series analysis via mechanistic models. Annals of Applied Statistics, 2009, 3, .	1.1	144
10	Natural immune boosting in pertussis dynamics and the potential for long-term vaccine failure. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7259-7264.	7.1	136
11	Highly localized sensitivity to climate forcing drives endemic cholera in a megacity. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2033-2036.	7.1	117
12	Time-varying, serotype-specific force of infection of dengue virus. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2694-702.	7.1	105
13	The pertussis enigma: reconciling epidemiology, immunology and evolution. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20152309.	2.6	104
14	Inference for dynamic and latent variable models via iterated, perturbed Bayes maps. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 719-724.	7.1	100
15	A guide to stateâ€“space modeling of ecological time series. Ecological Monographs, 2021, 91, e01470.	5.4	97
16	Lattice Effects Observed in Chaotic Dynamics of Experimental Populations. Science, 2001, 294, 602-605.	12.6	92
17	Detecting Adaptive Evolution in Phylogenetic Comparative Analysis Using the Ornsteinâ€“Uhlenbeck Model. Systematic Biology, 2015, 64, 953-968.	5.6	87
18	Iterated filtering. Annals of Statistics, 2011, 39, .	2.6	85

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19	The impact of past vaccination coverage and immunity on pertussis resurgence. Science Translational Medicine, 2018, 10, .	12.4	76
20	THE GEOMETRY OF A POPULATION CYCLE: A MECHANISTIC MODEL OF SNOWSHOE HARE DEMOGRAPHY. Ecology, 2001, 82, 814-830.	3.2	70
21	Human birth seasonality: latitudinal gradient and interplay with childhood disease dynamics. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20132438.	2.6	64
22	Statistical Inference for Multi-Pathogen Systems. PLoS Computational Biology, 2011, 7, e1002135.	3.2	59
23	Evolution of Acute Infections and the Invasionâ€Persistence Tradeâ€Off. American Naturalist, 2009, 173, 446-455.	2.1	58
24	Epidemiological Consequences of Imperfect Vaccines for Immunizing Infections. SIAM Journal on Applied Mathematics, 2014, 74, 1810-1830.	1.8	57
25	The rainbow bridge: Hamiltonian limits and resonance in predator-prey dynamics. Journal of Mathematical Biology, 1999, 39, 439-469.	1.9	56
26	Unraveling the Transmission Ecology of Polio. PLoS Biology, 2015, 13, e1002172.	5.6	52
27	Running for Your Life or Running for Your Dinner: What Drives Fiberâ€Type Evolution in Lizard Locomotor Muscles?. American Naturalist, 2009, 173, 543-553.	2.1	51
28	Evolution-informed forecasting of seasonal influenza A (H3N2). Science Translational Medicine, 2017, 9, .	12.4	51
29	Nonlinear Stochastic Population Dynamics: The Flour Beetle Tribolium as an Effective Tool of Discovery. Advances in Ecological Research, 2005, , 101-141.	2.7	49
30	Fencing protected areas: A long-term assessment of the effects of reserve establishment and fencing on African mammalian diversity. Biological Conservation, 2014, 176, 162-171.	4.1	43
31	Interactions between Behavioral and Lifeâ€History Tradeâ€Offs in the Evolution of Integrated Predatorâ€Defense Plasticity. American Naturalist, 2010, 176, 276-288.	2.1	42
32	Differential and enhanced response to climate forcing in diarrheal disease due to rotavirus across a megacity of the developing world. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4092-4097.	7.1	40
33	Can vaccine legacy explain the British pertussis resurgence?. Vaccine, 2013, 31, 5903-5908.	3.8	38
34	A chaotic attractor in ecology: theory and experimental data. Chaos, Solitons and Fractals, 2001, 12, 219-234.	5.1	36
35	An Introduction to the Biocomplexity of Sanak Island, Western Gulf of Alaska. Pacific Science, 2009, 63, 673-709.	0.6	33
36	Anatomy of a chaotic attractor: Subtle model-predicted patterns revealed in population data. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 408-413.	7.1	32

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37	Epidemiological evidence for herd immunity induced by acellular pertussis vaccines. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E716-7.	7.1	31
38	Monte Carlo profile confidence intervals for dynamic systems. Journal of the Royal Society Interface, 2017, 14, 20170126.	3.4	30
39	Never mind the length, feel the quality: the impact of long-term epidemiological data sets on theory, application and policy. Trends in Ecology and Evolution, 2010, 25, 611-618.	8.7	29
40	Spatial mechanisms for coexistence of species sharing a common natural enemy. Theoretical Population Biology, 2003, 64, 431-438.	1.1	27
41	Immune Boosting Explains Regime-Shifts in Prevaccine-Era Pertussis Dynamics. PLoS ONE, 2013, 8, e72086.	2.5	27
42	Experimental support of the scaling rule for demographic stochasticity. Ecology Letters, 2006, 9, 537-547.	6.4	26
43	Pertussis immunity and epidemiology: mode and duration of vaccine-induced immunity. Parasitology, 2016, 143, 835-849.	1.5	25
44	Duration of Immunity and Effectiveness of Diphtheria-Tetanusâ€“Acellular Pertussis Vaccines in Children. JAMA Pediatrics, 2019, 173, 588.	6.2	24
45	Infectious Disease Dynamics Inferred from Genetic Data via Sequential Monte Carlo. Molecular Biology and Evolution, 2017, 34, 2065-2084.	8.9	23
46	Age-structure and transient dynamics in epidemiological systems. Journal of the Royal Society Interface, 2019, 16, 20190151.	3.4	23
47	Weakly dissipative predator-prey systems. Bulletin of Mathematical Biology, 1996, 58, 835-859.	1.9	22
48	Explaining and predicting patterns in stochastic population systems. Proceedings of the Royal Society B: Biological Sciences, 2003, 270, 1549-1553.	2.6	21
49	How Infections Propagate After Point-Source Outbreaks. Epidemiology, 2010, 21, 711-718.	2.7	21
50	Time Lags and the Balance of Positive and Negative Interactions in Driving Grassland Community Dynamics. American Naturalist, 2010, 175, 160-173.	2.1	21
51	Sub-harmonic resonance and multi-annual oscillations in northern mammals: a non-linear dynamical systems perspective. Chaos, Solitons and Fractals, 2001, 12, 251-264.	5.1	18
52	Choices and trade-offs in inference with infectious disease models. Epidemics, 2020, 30, 100383.	3.0	16
53	Cholera forecast for Dhaka, Bangladesh, with the 2015-2016 El NiÃ±o: Lessons learned. PLoS ONE, 2017, 12, e0172355.	2.5	16
54	Fine-scale heterogeneity in population density predicts wave dynamics in dengue epidemics. Nature Communications, 2022, 13, 996.	12.8	16

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55	Seasonality in cholera dynamics: A rainfall-driven model explains the wide range of patterns in endemic areas. Advances in Water Resources, 2017, 108, 357-366.	3.8	15
56	Panel Data Analysis via Mechanistic Models. Journal of the American Statistical Association, 2020, 115, 1178-1188.	3.1	12
57	Climate-driven endemic cholera is modulated by human mobility in a megacity. Advances in Water Resources, 2017, 108, 367-376.	3.8	11
58	The contribution of host cell-directed vs. parasite-directed immunity to the disease and dynamics of malaria infections. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22386-22392.	7.1	11
59	Evolution of acuteness in pathogen metapopulations: conflicts between â€œclassicalâ€•and invasion-persistence trade-offs. Theoretical Ecology, 2014, 7, 299-311.	1.0	9
60	Core pertussis transmission groups in England and Wales: A tale of two eras. Vaccine, 2018, 36, 1160-1166.	3.8	8
61	Maternal pertussis immunisation: clinical gains and epidemiological legacy. Eurosurveillance, 2017, 22, .	7.0	8
62	Modeling evolution and persistence of neurological viral diseases in wild populations. Mathematical Biosciences and Engineering, 2008, 5, 729-741.	1.9	8
63	Consequential classes of resources: Subtle global bifurcation with dramatic ecological consequences in a simple population model. Journal of Theoretical Biology, 2010, 263, 237-241.	1.7	6
64	Commentary: resolving pertussis resurgence and vaccine immunity using mathematical transmission models. Human Vaccines and Immunotherapeutics, 2019, 15, 683-686.	3.3	6
65	Markov genealogy processes. Theoretical Population Biology, 2022, 143, 77-91.	1.1	5
66	The impact of infection-derived immunity on disease dynamics. Journal of Mathematical Biology, 2021, 83, 61.	1.9	4
67	Weakly dissipative predator-prey systems. Bulletin of Mathematical Biology, 1996, 58, 835-859.	1.9	2
68	Response to Comment on â€œThe impact of past vaccination coverage and immunity on pertussis resurgenceâ€• Science Translational Medicine, 2018, 10, .	12.4	2
69	Bagged Filters for Partially Observed Interacting Systems. Journal of the American Statistical Association, 2023, 118, 1078-1089.	3.1	1