

# James M Mccaw

## List of Publications by Citations

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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.

116  
papers

2,219  
citations

25  
h-index

42  
g-index

130  
ext. papers

2,740  
ext. citations

5.4  
avg, IF

4.92  
L-index

#	Paper	IF	Citations
116	Targeting the cell stress response of Plasmodium falciparum to overcome artemisinin resistance. <i>PLoS Biology</i> , <b>2015</b> , 13, e1002132	9.7	193
115	Altered temporal response of malaria parasites determines differential sensitivity to artemisinin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 5157-62	11.5	139
114	Estimating the fitness advantage conferred by permissive neuraminidase mutations in recent oseltamivir-resistant A(H1N1)pdm09 influenza viruses. <i>PLoS Pathogens</i> , <b>2014</b> , 10, e1004065	7.6	97
113	Clonally diverse CD38HLA-DRCD8 T cells persist during fatal H7N9 disease. <i>Nature Communications</i> , <b>2018</b> , 9, 824	17.4	69
112	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
111	Interval Between Infections and Viral Hierarchy Are Determinants of Viral Interference Following Influenza Virus Infection in a Ferret Model. <i>Journal of Infectious Diseases</i> , <b>2015</b> , 212, 1701-10	7	62
110	A biological model for influenza transmission: pandemic planning implications of asymptomatic infection and immunity. <i>PLoS ONE</i> , <b>2007</b> , 2, e1220	3.7	62
109	Understanding influenza transmission, immunity and pandemic threats. <i>Influenza and Other Respiratory Viruses</i> , <b>2009</b> , 3, 143-9	5.6	58
108	Assessing the viral fitness of oseltamivir-resistant influenza viruses in ferrets, using a competitive-mixtures model. <i>Journal of Virology</i> , <b>2010</b> , 84, 9427-38	6.6	56
107	Prophylaxis or treatment? Optimal use of an antiviral stockpile during an influenza pandemic. <i>Mathematical Biosciences</i> , <b>2007</b> , 209, 336-60	3.9	55
106	Antigenic drift of the pandemic 2009 A(H1N1) influenza virus in A ferret model. <i>PLoS Pathogens</i> , <b>2013</b> , 9, e1003354	7.6	52
105	Impact of emerging antiviral drug resistance on influenza containment and spread: influence of subclinical infection and strategic use of a stockpile containing one or two drugs. <i>PLoS ONE</i> , <b>2008</b> , 3, e2362	3.7	43
104	Comparison of three methods for ascertainment of contact information relevant to respiratory pathogen transmission in encounter networks. <i>BMC Infectious Diseases</i> , <b>2010</b> , 10, 166	4	42
103	Investigating Viral Interference Between Influenza A Virus and Human Respiratory Syncytial Virus in a Ferret Model of Infection. <i>Journal of Infectious Diseases</i> , <b>2018</b> , 218, 406-417	7	41
102	Heightened self-reactivity associated with selective survival, but not expansion, of naïve virus-specific CD8+ T cells in aged mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 1333-8	11.5	40
101	Innate Immunity and the Inter-exposure Interval Determine the Dynamics of Secondary Influenza Virus Infection and Explain Observed Viral Hierarchies. <i>PLoS Computational Biology</i> , <b>2015</b> , 11, e1004334	5	38
100	Comparison of the Exposure Time Dependence of the Activities of Synthetic Ozonide Antimalarials and Dihydroartemisinin against K13 Wild-Type and Mutant Plasmodium falciparum Strains. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2016</b> , 60, 4501-10	5.9	38

99	Prior immunity helps to explain wave-like behaviour of pandemic influenza in 1918-9. <i>BMC Infectious Diseases</i> , <b>2010</b> , 10, 128	4	37
98	Infectious disease pandemic planning and response: Incorporating decision analysis. <i>PLoS Medicine</i> , <b>2020</b> , 17, e1003018	11.6	37
97	The effects of demographic change on disease transmission and vaccine impact in a household structured population. <i>Epidemics</i> , <b>2015</b> , 13, 56-64	5.1	36
96	Evidence for Viral Interference and Cross-reactive Protective Immunity Between Influenza B Virus Lineages. <i>Journal of Infectious Diseases</i> , <b>2018</b> , 217, 548-559	7	36
95	Synthetic Population Dynamics: A Model of Household Demography. <i>Jasss</i> , <b>2013</b> , 16,	4.8	36
94	Assessing the utility of an anti-malarial pharmacokinetic-pharmacodynamic model for aiding drug clinical development. <i>Malaria Journal</i> , <b>2012</b> , 11, 303	3.6	33
93	Investigating the Efficacy of Triple Artemisinin-Based Combination Therapies for Treating Plasmodium falciparum Malaria Patients Using Mathematical Modeling. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2018</b> , 62,	5.9	32
92	Early analysis of the Australian COVID-19 epidemic. <i>ELife</i> , <b>2020</b> , 9,	8.9	31
91	Reducing uncertainty in within-host parameter estimates of influenza infection by measuring both infectious and total viral load. <i>PLoS ONE</i> , <b>2013</b> , 8, e64098	3.7	25
90	Evaluation of oseltamivir prophylaxis regimens for reducing influenza virus infection, transmission and disease severity in a ferret model of household contact. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2014</b> , 69, 2458-69	5.1	24
89	Influenza: accounting for prior immunity. <i>Science</i> , <b>2009</b> , 325, 1071; author reply 1072-3	33.3	24
88	Forecasting influenza outbreak dynamics in Melbourne from Internet search query surveillance data. <i>Influenza and Other Respiratory Viruses</i> , <b>2016</b> , 10, 314-23	5.6	24
87	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
86	Likely effectiveness of pharmaceutical and non-pharmaceutical interventions for mitigating influenza virus transmission in Mongolia. <i>Bulletin of the World Health Organization</i> , <b>2012</b> , 90, 264-71	8.2	21
85	The Mechanisms for Within-Host Influenza Virus Control Affect Model-Based Assessment and Prediction of Antiviral Treatment. <i>Viruses</i> , <b>2017</b> , 9,	6.2	20
84	On the Role of CD8 T Cells in Determining Recovery Time from Influenza Virus Infection. <i>Frontiers in Immunology</i> , <b>2016</b> , 7, 611	8.4	20
83	Defining long-term drivers of pertussis resurgence, and optimal vaccine control strategies. <i>Vaccine</i> , <b>2015</b> , 33, 5794-5800	4.1	19
82	Making the most of clinical data: reviewing the role of pharmacokinetic-pharmacodynamic models of anti-malarial drugs. <i>AAPS Journal</i> , <b>2014</b> , 16, 962-74	3.7	19

81	Diagnosis and antiviral intervention strategies for mitigating an influenza epidemic. <i>PLoS ONE</i> , <b>2011</b> , 6, e14505	3.7	19
80	Retrospective forecasting of the 2010-2014 Melbourne influenza seasons using multiple surveillance systems. <i>Epidemiology and Infection</i> , <b>2017</b> , 145, 156-169	4.3	18
79	Within-host modeling of blood-stage malaria. <i>Immunological Reviews</i> , <b>2018</b> , 285, 168-193	11.3	17
78	Modelling strategic use of the national antiviral stockpile during the CONTAIN and SUSTAIN phases of an Australian pandemic influenza response. <i>Australian and New Zealand Journal of Public Health</i> , <b>2010</b> , 34, 113-9	2.3	17
77	H1N1 influenza and the Australian macroeconomy. <i>Journal of the Asia Pacific Economy</i> , <b>2012</b> , 17, 22-51	1	16
76	Modelling cross-reactivity and memory in the cellular adaptive immune response to influenza infection in the host. <i>Journal of Theoretical Biology</i> , <b>2017</b> , 413, 34-49	2.3	15
75	Incorporating population dynamics into household models of infectious disease transmission. <i>Epidemics</i> , <b>2011</b> , 3, 152-8	5.1	15
74	A mathematical framework for estimating pathogen transmission fitness and inoculum size using data from a competitive mixtures animal model. <i>PLoS Computational Biology</i> , <b>2011</b> , 7, e1002026	5	15
73	Modeling the dynamics of gametocytes in humans during malaria infection. <i>ELife</i> , <b>2019</b> , 8,	8.9	15
72	Quantifying relative within-host replication fitness in influenza virus competition experiments. <i>Journal of Theoretical Biology</i> , <b>2015</b> , 382, 259-71	2.3	14
71	Virus detection and its association with symptoms during influenza-like illness in a sample of healthy adults enrolled in a randomised controlled vaccine trial. <i>Influenza and Other Respiratory Viruses</i> , <b>2013</b> , 7, 330-9	5.6	14
70	Social encounter profiles of greater Melbourne residents, by location--a telephone survey. <i>BMC Infectious Diseases</i> , <b>2015</b> , 15, 494	4	14
69	Household transmission of respiratory viruses - assessment of viral, individual and household characteristics in a population study of healthy Australian adults. <i>BMC Infectious Diseases</i> , <b>2012</b> , 12, 345	4	14
68	THE INFLUENCE OF INCREASING LIFE EXPECTANCY ON THE DYNAMICS OF SIRS SYSTEMS WITH IMMUNE BOOSTING. <i>ANZIAM Journal</i> , <b>2012</b> , 54, 50-63	0.5	14
67	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
66	Model selection for seasonal influenza forecasting. <i>Infectious Disease Modelling</i> , <b>2017</b> , 2, 56-70	15.7	13
65	Epidemic forecasts as a tool for public health: interpretation and (re)calibration. <i>Australian and New Zealand Journal of Public Health</i> , <b>2018</b> , 42, 69-76	2.3	13
64	On the extinction probability in models of within-host infection: the role of latency and immunity. <i>Journal of Mathematical Biology</i> , <b>2016</b> , 73, 787-813	2	13

63	Pandemic controllability: a concept to guide a proportionate and flexible operational response to future influenza pandemics. <i>Journal of Public Health</i> , <b>2014</b> , 36, 5-12	3.5	13
62	Population pharmacokinetics of intravenous artesunate: a pooled analysis of individual data from patients with severe malaria. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , <b>2014</b> , 3, e145	4.5	12
61	Coronavirus Disease Model to Inform Transmission-Reducing Measures and Health System Preparedness, Australia. <i>Emerging Infectious Diseases</i> , <b>2020</b> , 26, 2844-2853	10.2	12
60	Influenza as a trigger for cardiovascular disease: An investigation of serotype, subtype and geographic location. <i>Environmental Research</i> , <b>2017</b> , 156, 688-696	7.9	11
59	Influence of contact definitions in assessment of the relative importance of social settings in disease transmission risk. <i>PLoS ONE</i> , <b>2012</b> , 7, e30893	3.7	11
58	Understanding mortality in the 1918-1919 influenza pandemic in England and Wales. <i>Influenza and Other Respiratory Viruses</i> , <b>2011</b> , 5, 89-98	5.6	11
57	Optimal dosing and dynamic distribution of vaccines in an influenza pandemic. <i>American Journal of Epidemiology</i> , <b>2009</b> , 169, 1517-24	3.8	11
56	Characterization of Influenza B Virus Variants with Reduced Neuraminidase Inhibitor Susceptibility. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2018</b> , 62,	5.9	11
55	A new approach to estimating trends in chlamydia incidence. <i>Sexually Transmitted Infections</i> , <b>2015</b> , 91, 513-9	2.8	10
54	Reducing disease burden in an influenza pandemic by targeted delivery of neuraminidase inhibitors: mathematical models in the Australian context. <i>BMC Infectious Diseases</i> , <b>2016</b> , 16, 552	4	10
53	A biological model of scabies infection dynamics and treatment informs mass drug administration strategies to increase the likelihood of elimination. <i>Mathematical Biosciences</i> , <b>2019</b> , 309, 163-173	3.9	10
52	Prior population immunity reduces the expected impact of CTL-inducing vaccines for pandemic influenza control. <i>PLoS ONE</i> , <b>2015</b> , 10, e0120138	3.7	9
51	Accounting for Healthcare-Seeking Behaviours and Testing Practices in Real-Time Influenza Forecasts. <i>Tropical Medicine and Infectious Disease</i> , <b>2019</b> , 4,	3.5	8
50	The dynamical consequences of seasonal forcing, immune boosting and demographic change in a model of disease transmission. <i>Journal of Theoretical Biology</i> , <b>2014</b> , 361, 124-32	2.3	8
49	Factors associated with transmission of influenza-like illness in a cohort of households containing multiple children. <i>Influenza and Other Respiratory Viruses</i> , <b>2015</b> , 9, 247-54	5.6	8
48	Pertussis models to inform vaccine policy. <i>Human Vaccines and Immunotherapeutics</i> , <b>2015</b> , 11, 669-78	4.4	8
47	Model-Informed Risk Assessment and Decision Making for an Emerging Infectious Disease in the Asia-Pacific Region. <i>PLoS Neglected Tropical Diseases</i> , <b>2016</b> , 10, e0005018	4.8	8
46	Calculation of the age of the first infection for skin sores and scabies in five remote communities in northern Australia. <i>Epidemiology and Infection</i> , <b>2018</b> , 146, 1194-1201	4.3	8

45	The influence of changing host immunity on 1918-19 pandemic dynamics. <i>Epidemics</i> , <b>2014</b> , 8, 18-27	5.1	7
44	A mechanistic model quantifies artemisinin-induced parasite growth retardation in blood-stage <i>Plasmodium falciparum</i> infection. <i>Journal of Theoretical Biology</i> , <b>2017</b> , 430, 117-127	2.3	6
43	Dynamical crises, multistability and the influence of the duration of immunity in a seasonally-forced model of disease transmission. <i>Theoretical Biology and Medical Modelling</i> , <b>2014</b> , 11, 43	2.3	6
42	Predicting the Outcomes of New Short-Course Regimens for Multidrug-Resistant Tuberculosis Using Intra-host and Pharmacokinetic-Pharmacodynamic Modeling. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2018</b> , 62,	5.9	6
41	A Dynamic Stress Model Explains the Delayed Drug Effect in Artemisinin Treatment of <i>Plasmodium falciparum</i> . <i>Antimicrobial Agents and Chemotherapy</i> , <b>2017</b> , 61,	5.9	5
40	Sequential infection experiments for quantifying innate and adaptive immunity during influenza infection. <i>PLoS Computational Biology</i> , <b>2019</b> , 15, e1006568	5	5
39	Application of a case-control study design to investigate genotypic signatures of HIV-1 transmission. <i>Retrovirology</i> , <b>2012</b> , 9, 54	3.6	5
38	Modelling within-host macrophage dynamics in influenza virus infection. <i>Journal of Theoretical Biology</i> , <b>2021</b> , 508, 110492	2.3	5
37	Quantifying differences in the epidemic curves from three influenza surveillance systems: a nonlinear regression analysis. <i>Epidemiology and Infection</i> , <b>2015</b> , 143, 427-39	4.3	4
36	Periodic solutions in an SIRWS model with immune boosting and cross-immunity. <i>Journal of Theoretical Biology</i> , <b>2016</b> , 410, 55-64	2.3	4
35	Drivers and consequences of influenza antiviral resistant-strain emergence in a capacity-constrained pandemic response. <i>Epidemics</i> , <b>2012</b> , 4, 219-26	5.1	4
34	Understanding Australia's influenza pandemic policy on the strategic use of the antiviral drug stockpile. <i>Medical Journal of Australia</i> , <b>2009</b> , 191, 136-7	4	4
33	Pure point spectrum for the time evolution of a periodically rank-N kicked Hamiltonian. <i>Journal of Mathematical Physics</i> , <b>2005</b> , 46, 032108	1.2	4
32	Anatomy of a seasonal influenza epidemic forecast. <i>Communicable Diseases Intelligence (2018)</i> , 43,	1.9	4
31	Assessing the risk of spread of COVID-19 to the Asia Pacific region		4
30	A simple influenza model with complicated dynamics. <i>Journal of Mathematical Biology</i> , <b>2019</b> , 78, 607-624		4
29	Infection-acquired versus vaccine-acquired immunity in an SIRWS model. <i>Infectious Disease Modelling</i> , <b>2018</b> , 3, 118-135	15.7	4
28	An Activation-Clearance Model for <i>Plasmodium vivax</i> Malaria. <i>Bulletin of Mathematical Biology</i> , <b>2020</b> , 82, 32	2.1	3

27	High conservation level of CD8(+) T cell immunogenic regions within an unusual H1N2 human influenza variant. <i>Journal of Medical Virology</i> , <b>2016</b> , 88, 1725-32	19.7	3
26	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
25	Author response: Early analysis of the Australian COVID-19 epidemic <b>2020</b> ,		3
24	Antibody Dynamics for Plasmodium vivax Malaria: A Mathematical Model. <i>Bulletin of Mathematical Biology</i> , <b>2021</b> , 83, 6	2.1	3
23	Constructing an ethical framework for priority allocation of pandemic vaccines. <i>Vaccine</i> , <b>2021</b> , 39, 797-804	4.1	3
22	Investigation of the Decline in Clinical Efficacy of Artemisinin Combination Therapies Due to Increasing Artemisinin and Partner Drug Resistance. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2018</b> , 62,	5.9	3
21	Anatomy of a seasonal influenza epidemic forecast. <i>Communicable Diseases Intelligence (2018)</i> , <b>2019</b> , 43,	1.9	3
20	Coordinating the real-time use of global influenza activity data for better public health planning. <i>Influenza and Other Respiratory Viruses</i> , <b>2020</b> , 14, 105-110	5.6	2
19	Parasite Strain, Host Immunity, and Circulating Blood Cells with Dead Parasites: Why Predicting Malaria Parasite Clearance Is Not a Simple Task. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2016</b> , 60, 1172	5.9	2
18	On the continuous spectral component of the Floquet operator for a periodically kicked quantum system. <i>Journal of Mathematical Physics</i> , <b>2005</b> , 46, 103503	1.2	2
17	Modelling the Effect of MUC1 on Influenza Virus Infection Kinetics and Macrophage Dynamics. <i>Viruses</i> , <b>2021</b> , 13,	6.2	2
16	Turnover of Village Chickens Undermines Vaccine Coverage to Control HPAI H5N1. <i>Zoonoses and Public Health</i> , <b>2017</b> , 64, 53-62	2.9	1
15	Modelling within-host macrophage dynamics in influenza virus infection		1
14	Estimation of the force of infection and infectious period of skin sores in remote Australian communities using interval-censored data		1
13	Estimation of the force of infection and infectious period of skin sores in remote Australian communities using interval-censored data. <i>PLoS Computational Biology</i> , <b>2020</b> , 16, e1007838	5	1
12	COVID-19 in low-tolerance border quarantine systems: Impact of the Delta variant of SARS-CoV-2.. <i>Science Advances</i> , <b>2022</b> , 8, eabm3624	14.3	1
11	Hypnozoite dynamics for Plasmodium vivax malaria: the epidemiological effects of radical cure.. <i>Journal of Theoretical Biology</i> , <b>2022</b> , 537, 111014	2.3	0
10	Estimation of the probability of epidemic fade-out from multiple outbreak data.. <i>Epidemics</i> , <b>2022</b> , 38, 100539	5.1	0

9	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
8	Rapid assessment of the risk of SARS-CoV-2 importation: case study and lessons learned.. <i>Epidemics</i> , <b>2022</b> , 38, 100549	5.1	0
7	New Mathematical Models of Antimalarial Drug Action to Improve Drug Dosing Regimens. <i>Mathematics for Industry</i> , <b>2018</b> , 7-11	0.1	
6	Estimation of the force of infection and infectious period of skin sores in remote Australian communities using interval-censored data <b>2020</b> , 16, e1007838		
5	Estimation of the force of infection and infectious period of skin sores in remote Australian communities using interval-censored data <b>2020</b> , 16, e1007838		
4	Estimation of the force of infection and infectious period of skin sores in remote Australian communities using interval-censored data <b>2020</b> , 16, e1007838		
3	Estimation of the force of infection and infectious period of skin sores in remote Australian communities using interval-censored data <b>2020</b> , 16, e1007838		
2	Estimation of the force of infection and infectious period of skin sores in remote Australian communities using interval-censored data <b>2020</b> , 16, e1007838		
1	Estimation of the force of infection and infectious period of skin sores in remote Australian communities using interval-censored data <b>2020</b> , 16, e1007838		