

# Bryan T Grenfell

## 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.

231  
papers

21,316  
citations

67  
h-index

143  
g-index

255  
ext. papers

25,752  
ext. citations

12.5  
avg, IF

7.07  
L-index

#	Paper	IF	Citations
231	Modelling vaccination strategies for COVID-19.. <i>Nature Reviews Immunology</i> , <b>2022</b> ,	36.5	2
230	A global system for the next generation of vaccines.. <i>Science</i> , <b>2022</b> , 376, 462-464	33.3	
229	Forward-looking serial intervals correctly link epidemic growth to reproduction numbers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	21
228	Epidemiological dynamics of enterovirus D68 in the United States and implications for acute flaccid myelitis. <i>Science Translational Medicine</i> , <b>2021</b> , 13,	17.5	10
227	Partial immunity and SARS-CoV-2 mutations-Response. <i>Science</i> , <b>2021</b> , 372, 354-355	33.3	2
226	Epidemiological and evolutionary considerations of SARS-CoV-2 vaccine dosing regimes. <i>Science</i> , <b>2021</b> , 372, 363-370	33.3	90
225	Evolution of an asymptomatic first stage of infection in a heterogeneous population. <i>Journal of the Royal Society Interface</i> , <b>2021</b> , 18, 20210175	4.1	1
224	Superinfection and the evolution of an initial asymptomatic stage. <i>Royal Society Open Science</i> , <b>2021</b> , 8, 202212	3.3	2
223	Variation in SARS-CoV-2 outbreaks across sub-Saharan Africa. <i>Nature Medicine</i> , <b>2021</b> , 27, 447-453	50.5	43
222	Epidemiological and evolutionary considerations of SARS-CoV-2 vaccine dosing regimes <b>2021</b> ,		8
221	Trajectory of individual immunity and vaccination required for SARS-CoV-2 community immunity: a conceptual investigation. <i>Journal of the Royal Society Interface</i> , <b>2021</b> , 18, 20200683	4.1	8
220	Assessing the influence of climate on wintertime SARS-CoV-2 outbreaks. <i>Nature Communications</i> , <b>2021</b> , 12, 846	17.4	19
219	Trip duration drives shift in travel network structure with implications for the predictability of spatial disease spread. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1009127	5	1
218	Vaccine nationalism and the dynamics and control of SARS-CoV-2. <i>Science</i> , <b>2021</b> , 373, eabj7364	33.3	19
217	Why are there so few (or so many) circulating coronaviruses?. <i>Trends in Immunology</i> , <b>2021</b> , 42, 751-763	14.4	3
216	Biphasic pattern in the effect of severe measles infection; the difference between additive and multiplicative scale.. <i>BMC Infectious Diseases</i> , <b>2021</b> , 21, 1249	4	0
215	Susceptible supply limits the role of climate in the early SARS-CoV-2 pandemic. <i>Science</i> , <b>2020</b> , 369, 315-319	33.3	180

214	Dynamics in a simple evolutionary-epidemiological model for the evolution of an initial asymptomatic infection stage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 11541-11550	11.5	14
213	Disease and healthcare burden of COVID-19 in the United States. <i>Nature Medicine</i> , <b>2020</b> , 26, 1212-1217	50.5	193
212	Changes in historical typhoid transmission across 16 U.S. cities, 1889-1931: Quantifying the impact of investments in water and sewer infrastructures. <i>PLoS Neglected Tropical Diseases</i> , <b>2020</b> , 14, e0008048	4.8	4
211	An investigation of transmission control measures during the first 50 days of the COVID-19 epidemic in China. <i>Science</i> , <b>2020</b> , 368, 638-642	33.3	1025
210	Waning immunity and re-emergence of measles and mumps in the vaccine era. <i>Current Opinion in Virology</i> , <b>2020</b> , 40, 48-54	7.5	8
209	Implications of localized charge for human influenza A H1N1 hemagglutinin evolution: Insights from deep mutational scans. <i>PLoS Computational Biology</i> , <b>2020</b> , 16, e1007892	5	2
208	Using Serology with Models to Clarify the Trajectory of the SARS-CoV-2 Emerging Outbreak. <i>Trends in Immunology</i> , <b>2020</b> , 41, 849-851	14.4	7
207	Surveillance data confirm multiyear predictions of rotavirus dynamics in New York City. <i>Science Advances</i> , <b>2020</b> , 6, eaax0586	14.3	2
206	A competing-risks model explains hierarchical spatial coupling of measles epidemics en route to national elimination. <i>Nature Ecology and Evolution</i> , <b>2020</b> , 4, 934-939	12.3	9
205	Coexisting attractors in the context of cross-scale population dynamics: measles in London as a case study. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2020</b> , 287, 20191510	4.4	2
204	Disentangling the dynamical underpinnings of differences in SARS-CoV-2 pathology using within-host ecological models. <i>PLoS Pathogens</i> , <b>2020</b> , 16, e1009105	7.6	8
203	Accelerated viral dynamics in bat cell lines, with implications for zoonotic emergence. <i>ELife</i> , <b>2020</b> , 9,	8.9	64
202	Author response: Accelerated viral dynamics in bat cell lines, with implications for zoonotic emergence <b>2020</b> ,		3
201	A Global Immunological Observatory to meet a time of pandemics. <i>ELife</i> , <b>2020</b> , 9,	8.9	27
200	Asynchrony between virus diversity and antibody selection limits influenza virus evolution. <i>ELife</i> , <b>2020</b> , 9,	8.9	12
199	Potential roles of social distancing in mitigating the spread of coronavirus disease 2019 (COVID-19) in South Korea <b>2020</b> ,		20
198	High variation expected in the pace and burden of SARS-CoV-2 outbreaks across sub-Saharan Africa <b>2020</b> ,		3
197	Factors Associated With Measles Transmission in the United States During the Postelimination Era. <i>JAMA Pediatrics</i> , <b>2020</b> , 174, 56-62	8.3	12

196	Potential Role of Social Distancing in Mitigating Spread of Coronavirus Disease, South Korea. <i>Emerging Infectious Diseases</i> , <b>2020</b> , 26, 2697-2700	10.2	25
195	The use of mobile phone data to inform analysis of COVID-19 pandemic epidemiology. <i>Nature Communications</i> , <b>2020</b> , 11, 4961	17.4	109
194	The impact of COVID-19 nonpharmaceutical interventions on the future dynamics of endemic infections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 30547-30553	11.5	116
193	Structure, space and size: competing drivers of variation in urban and rural measles transmission. <i>Journal of the Royal Society Interface</i> , <b>2020</b> , 17, 20200010	4.1	2
192	Climatological, virological and sociological drivers of current and projected dengue fever outbreak dynamics in Sri Lanka. <i>Journal of the Royal Society Interface</i> , <b>2020</b> , 17, 20200075	4.1	4
191	Reconciling early-outbreak estimates of the basic reproductive number and its uncertainty: framework and applications to the novel coronavirus (SARS-CoV-2) outbreak. <i>Journal of the Royal Society Interface</i> , <b>2020</b> , 17, 20200144	4.1	71
190	Cyclic epidemics and extreme outbreaks induced by hydro-climatic variability and memory. <i>Journal of the Royal Society Interface</i> , <b>2020</b> , 17, 20200521	4.1	2
189	Symbolic transfer entropy reveals the age structure of pandemic influenza transmission from high-volume influenza-like illness data. <i>Journal of the Royal Society Interface</i> , <b>2020</b> , 17, 20190628	4.1	3
188	Tensor decomposition for infectious disease incidence data. <i>Methods in Ecology and Evolution</i> , <b>2020</b> , 11, 1690-1700	7.7	0
187	Immune life history, vaccination, and the dynamics of SARS-CoV-2 over the next 5 years. <i>Science</i> , <b>2020</b> , 370, 811-818	33.3	121
186	Characterizing superspreading events and age-specific infectiousness of SARS-CoV-2 transmission in Georgia, USA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 22430-22435	11.5	90
185	Seroepidemiologic Study Designs for Determining SARS-COV-2 Transmission and Immunity. <i>Emerging Infectious Diseases</i> , <b>2020</b> , 26, 1978-1986	10.2	47
184	Economic and Behavioral Influencers of Vaccination and Antimicrobial Use. <i>Frontiers in Public Health</i> , <b>2020</b> , 8, 614113	6	13
183	Changes in historical typhoid transmission across 16 U.S. cities, 1889-1931: Quantifying the impact of investments in water and sewer infrastructures <b>2020</b> , 14, e0008048		
182	Changes in historical typhoid transmission across 16 U.S. cities, 1889-1931: Quantifying the impact of investments in water and sewer infrastructures <b>2020</b> , 14, e0008048		
181	Changes in historical typhoid transmission across 16 U.S. cities, 1889-1931: Quantifying the impact of investments in water and sewer infrastructures <b>2020</b> , 14, e0008048		
180	Changes in historical typhoid transmission across 16 U.S. cities, 1889-1931: Quantifying the impact of investments in water and sewer infrastructures <b>2020</b> , 14, e0008048		
179	Changes in historical typhoid transmission across 16 U.S. cities, 1889-1931: Quantifying the impact of investments in water and sewer infrastructures <b>2020</b> , 14, e0008048		

178	Pareto rules for malaria super-spreaders and super-spreading. <i>Nature Communications</i> , <b>2019</b> , 10, 3939	17.4	23
177	Long-term dynamics of measles in London: Titrating the impact of wars, the 1918 pandemic, and vaccination. <i>PLoS Computational Biology</i> , <b>2019</b> , 15, e1007305	5	7
176	Dynamic Perspectives on the Search for a Universal Influenza Vaccine. <i>Journal of Infectious Diseases</i> , <b>2019</b> , 219, S46-S56	7	15
175	Model diagnostics and refinement for phylodynamic models. <i>PLoS Computational Biology</i> , <b>2019</b> , 15, e1006955	2	
174	Measles and the canonical path to elimination. <i>Science</i> , <b>2019</b> , 364, 584-587	33.3	25
173	Incentivizing hospital infection control. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 6221-6225	11.5	9
172	Measles vaccine immune escape: Should we be concerned?. <i>European Journal of Epidemiology</i> , <b>2019</b> , 34, 893-896	12.1	8
171	Response to Comment on "Long-term measles-induced immunomodulation increases overall childhood infectious disease mortality". <i>Science</i> , <b>2019</b> , 365,	33.3	6
170	Epidemic dynamics of respiratory syncytial virus in current and future climates. <i>Nature Communications</i> , <b>2019</b> , 10, 5512	17.4	40
169	Fogarty International Center collaborative networks in infectious disease modeling: Lessons learnt in research and capacity building. <i>Epidemics</i> , <b>2019</b> , 26, 116-127	5.1	10
168	Geographic transmission hubs of the 2009 influenza pandemic in the United States. <i>Epidemics</i> , <b>2019</b> , 26, 86-94	5.1	21
167	The seasonality of nonpolio enteroviruses in the United States: Patterns and drivers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 3078-3083	11.5	52
166	Impact of Public Health Responses During a Measles Outbreak in an Amish Community in Ohio: Modeling the Dynamics of Transmission. <i>American Journal of Epidemiology</i> , <b>2018</b> , 187, 2002-2010	3.8	17
165	Predictive Modeling of Influenza Shows the Promise of Applied Evolutionary Biology. <i>Trends in Microbiology</i> , <b>2018</b> , 26, 102-118	12.4	49
164	The decline of malaria in Vietnam, 1991-2014. <i>Malaria Journal</i> , <b>2018</b> , 17, 226	3.6	17
163	Vaccination under uncertainty. <i>Nature Ecology and Evolution</i> , <b>2018</b> , 2, 1350-1351	12.3	
162	Analysis of multi-level spatial data reveals strong synchrony in seasonal influenza epidemics across Norway, Sweden, and Denmark. <i>PLoS ONE</i> , <b>2018</b> , 13, e0197519	3.7	6
161	Deploying digital health data to optimize influenza surveillance at national and local scales. <i>PLoS Computational Biology</i> , <b>2018</b> , 14, e1006020	5	20

160	Unreported cases in the 2014-2016 Ebola epidemic: Spatiotemporal variation, and implications for estimating transmission. <i>PLoS Neglected Tropical Diseases</i> , <b>2018</b> , 12, e0006161	4.8	15
159	Impact and longevity of measles-associated immune suppression: a matched cohort study using data from the THIN general practice database in the UK. <i>BMJ Open</i> , <b>2018</b> , 8, e021465	3	20
158	Modeling the measles paradox reveals the importance of cellular immunity in regulating viral clearance. <i>PLoS Pathogens</i> , <b>2018</b> , 14, e1007493	7.6	4
157	Urbanization and humidity shape the intensity of influenza epidemics in U.S. cities. <i>Science</i> , <b>2018</b> , 362, 75-79	33.3	179
156	Epidemic dynamics, interactions and predictability of enteroviruses associated with hand, foot and mouth disease in Japan. <i>Journal of the Royal Society Interface</i> , <b>2018</b> , 15,	4.1	19
155	Spatial and temporal dynamics of superspreading events in the 2014-2015 West Africa Ebola epidemic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 2337-2342	11.5	96
154	Opportunities and challenges of a World Serum Bank - Authors' reply. <i>Lancet, The</i> , <b>2017</b> , 389, 252	40	9
153	Reducing antimicrobial use in food animals. <i>Science</i> , <b>2017</b> , 357, 1350-1352	33.3	236
152	tsiR: An R package for time-series Susceptible-Infected-Recovered models of epidemics. <i>PLoS ONE</i> , <b>2017</b> , 12, e0185528	3.7	25
151	The impact of migration and antimicrobial resistance on the transmission dynamics of typhoid fever in Kathmandu, Nepal: A mathematical modelling study. <i>PLoS Neglected Tropical Diseases</i> , <b>2017</b> , 11, e0005547	4.8	9
150	Human mobility and the spatial transmission of influenza in the United States. <i>PLoS Computational Biology</i> , <b>2017</b> , 13, e1005382	5	101
149	A mechanistic spatio-temporal framework for modelling individual-to-individual transmission-With an application to the 2014-2015 West Africa Ebola outbreak. <i>PLoS Computational Biology</i> , <b>2017</b> , 13, e1005798	5	14
148	The impact of HCV therapy in a high HIV-HCV prevalence population: A modeling study on people who inject drugs in Ho Chi Minh City, Vietnam. <i>PLoS ONE</i> , <b>2017</b> , 12, e0177195	3.7	8
147	Identifying Hotspots of Multidrug-Resistant Tuberculosis Transmission Using Spatial and Molecular Genetic Data. <i>Journal of Infectious Diseases</i> , <b>2016</b> , 213, 287-94	7	46
146	Forecasting Epidemiological and Evolutionary Dynamics of Infectious Diseases. <i>Trends in Ecology and Evolution</i> , <b>2016</b> , 31, 776-788	10.9	47
145	Estimating enhanced prevaccination measles transmission hotspots in the context of cross-scale dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 14595-14600	11.5	11
144	Immunogenicity of a Meningococcal B Vaccine during a University Outbreak. <i>New England Journal of Medicine</i> , <b>2016</b> , 375, 220-8	59.2	58
143	Hand, Foot, and Mouth Disease in China: Critical Community Size and Spatial Vaccination Strategies. <i>Scientific Reports</i> , <b>2016</b> , 6, 25248	4.9	12

142	Infectious diseases. Beyond Ebola. <i>Science</i> , <b>2016</b> , 351, 815-6	33.3	17
141	Universal or Specific? A Modeling-Based Comparison of Broad-Spectrum Influenza Vaccines against Conventional, Strain-Matched Vaccines. <i>PLoS Computational Biology</i> , <b>2016</b> , 12, e1005204	5	21
140	Self-enforcing regional vaccination agreements. <i>Journal of the Royal Society Interface</i> , <b>2016</b> , 13, 20150907	4.1	13
139	Hand, Foot, and Mouth Disease in China: Modeling Epidemic Dynamics of Enterovirus Serotypes and Implications for Vaccination. <i>PLoS Medicine</i> , <b>2016</b> , 13, e1001958	11.6	79
138	Persistent Chaos of Measles Epidemics in the Prevaccination United States Caused by a Small Change in Seasonal Transmission Patterns. <i>PLoS Computational Biology</i> , <b>2016</b> , 12, e1004655	5	34
137	Routine Pediatric Enterovirus 71 Vaccination in China: a Cost-Effectiveness Analysis. <i>PLoS Medicine</i> , <b>2016</b> , 13, e1001975	11.6	29
136	Impact on Epidemic Measles of Vaccination Campaigns Triggered by Disease Outbreaks or Serosurveys: A Modeling Study. <i>PLoS Medicine</i> , <b>2016</b> , 13, e1002144	11.6	18
135	High turnover drives prolonged persistence of influenza in managed pig herds. <i>Journal of the Royal Society Interface</i> , <b>2016</b> , 13,	4.1	24
134	Integrating immune mechanisms to model nematode worm burden: an example in sheep. <i>Parasitology</i> , <b>2016</b> , 143, 894-904	2.7	3
133	Use of serological surveys to generate key insights into the changing global landscape of infectious disease. <i>Lancet, The</i> , <b>2016</b> , 388, 728-30	40	146
132	Seasonal dynamics of bacterial meningitis: a time-series analysis. <i>The Lancet Global Health</i> , <b>2016</b> , 4, e370	13.6	38
131	Demographic buffering: titrating the effects of birth rate and imperfect immunity on epidemic dynamics. <i>Journal of the Royal Society Interface</i> , <b>2015</b> , 12, 20141245	4.1	19
130	Reduced vaccination and the risk of measles and other childhood infections post-Ebola. <i>Science</i> , <b>2015</b> , 347, 1240-2	33.3	130
129	The potential impact of coinfection on antimicrobial chemotherapy and drug resistance. <i>Trends in Microbiology</i> , <b>2015</b> , 23, 537-544	12.4	25
128	Changes in rodent abundance and weather conditions potentially drive hemorrhagic fever with renal syndrome outbreaks in Xi'an, China, 2005-2012. <i>PLoS Neglected Tropical Diseases</i> , <b>2015</b> , 9, e0003530	4.8	36
127	Environmental drivers of the spatiotemporal dynamics of respiratory syncytial virus in the United States. <i>PLoS Pathogens</i> , <b>2015</b> , 11, e1004591	7.6	70
126	Climate change suggests a shift of H5N1 risk in migratory birds. <i>Ecological Modelling</i> , <b>2015</b> , 306, 6-15	3	18
125	Long-term measles-induced immunomodulation increases overall childhood infectious disease mortality. <i>Science</i> , <b>2015</b> , 348, 694-9	33.3	222

124	Global trends in antimicrobial use in food animals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 5649-54	11.5	1574
123	Modeling the effect of HIV coinfection on clearance and sustained virologic response during treatment for hepatitis C virus. <i>Epidemics</i> , <b>2015</b> , 12, 1-10	5.1	9
122	Phylodynamics of Enterovirus A71-Associated Hand, Foot, and Mouth Disease in Viet Nam. <i>Journal of Virology</i> , <b>2015</b> , 89, 8871-9	6.6	45
121	Quantifying seasonal population fluxes driving rubella transmission dynamics using mobile phone data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 11114-9	11.5	85
120	Assessing drivers of full adoption of test and treat policy for malaria in Senegal. <i>American Journal of Tropical Medicine and Hygiene</i> , <b>2015</b> , 93, 159-167	3.2	9
119	Quantifying the risk of pandemic influenza virus evolution by mutation and re-assortment. <i>Vaccine</i> , <b>2015</b> , 33, 6955-66	4.1	16
118	Partially observed epidemics in wildlife hosts: modelling an outbreak of dolphin morbillivirus in the northwestern Atlantic, June 2013-2014. <i>Journal of the Royal Society Interface</i> , <b>2015</b> , 12,	4.1	28
117	The impact of environmental and climatic variation on the spatiotemporal trends of hospitalized pediatric diarrhea in Ho Chi Minh City, Vietnam. <i>Health and Place</i> , <b>2015</b> , 35, 147-54	4.6	20
116	Avian influenza H5N1 viral and bird migration networks in Asia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 172-7	11.5	129
115	Estimating drivers of autochthonous transmission of chikungunya virus in its invasion of the americas. <i>PLOS Currents</i> , <b>2015</b> , 7,		50
114	Global antibiotic consumption 2000 to 2010: an analysis of national pharmaceutical sales data. <i>Lancet Infectious Diseases</i> , <b>2014</b> , 14, 742-750	25.5	1285
113	The immune response and within-host emergence of pandemic influenza virus. <i>Lancet</i> , <b>2014</b> , 384, 2077-81	40	17
112	Demonstrating the use of high-volume electronic medical claims data to monitor local and regional influenza activity in the US. <i>PLoS ONE</i> , <b>2014</b> , 9, e102429	3.7	51
111	The path of least resistance: aggressive or moderate treatment?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2014</b> , 281, 20140566	4.4	63
110	Contact heterogeneity, rather than transmission efficiency, limits the emergence and spread of canine influenza virus. <i>PLoS Pathogens</i> , <b>2014</b> , 10, e1004455	7.6	32
109	Spatial Transmission of 2009 Pandemic Influenza in the US. <i>PLoS Computational Biology</i> , <b>2014</b> , 10, e1003635		103
108	Phocine distemper virus: current knowledge and future directions. <i>Viruses</i> , <b>2014</b> , 6, 5093-134	6.2	80
107	Modeling the impact of interventions along the HIV continuum of care in Newark, New Jersey. <i>Clinical Infectious Diseases</i> , <b>2014</b> , 58, 274-84	11.6	23



106	Cetacean morbillivirus: current knowledge and future directions. <i>Viruses</i> , <b>2014</b> , 6, 5145-81	6.2	138
105	Animal reservoir, natural and socioeconomic variations and the transmission of hemorrhagic fever with renal syndrome in Chenzhou, China, 2006-2010. <i>PLoS Neglected Tropical Diseases</i> , <b>2014</b> , 8, e2615	4.8	34
104	Predicting the impact of vaccination on the transmission dynamics of typhoid in South Asia: a mathematical modeling study. <i>PLoS Neglected Tropical Diseases</i> , <b>2014</b> , 8, e2642	4.8	59
103	Bacillus Calmette-Guérin and isoniazid preventive therapy protect contacts of patients with tuberculosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2014</b> , 189, 853-9	10.2	24
102	Age-specific risks of tuberculosis infection from household and community exposures and opportunities for interventions in a high-burden setting. <i>American Journal of Epidemiology</i> , <b>2014</b> , 180, 853-61	3.8	28
101	Multiannual forecasting of seasonal influenza dynamics reveals climatic and evolutionary drivers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 9538-42	11.5	67
100	Evolution of equine influenza virus in vaccinated horses. <i>Journal of Virology</i> , <b>2013</b> , 87, 4768-71	6.6	28
99	Hospital-community interactions foster coexistence between methicillin-resistant strains of <i>Staphylococcus aureus</i> . <i>PLoS Pathogens</i> , <b>2013</b> , 9, e1003134	7.6	42
98	Characterizing the dynamics of rubella relative to measles: the role of stochasticity. <i>Journal of the Royal Society Interface</i> , <b>2013</b> , 10, 20130643	4.1	11
97	Inferring population-level contact heterogeneity from common epidemic data. <i>Journal of the Royal Society Interface</i> , <b>2013</b> , 10, 20120578	4.1	15
96	Inferring the inter-host transmission of influenza A virus using patterns of intra-host genetic variation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2013</b> , 280, 20122173	4.4	41
95	Linking time-varying symptomatology and intensity of infectiousness to patterns of norovirus transmission. <i>PLoS ONE</i> , <b>2013</b> , 8, e68413	3.7	16
94	Persistence in epidemic metapopulations: quantifying the rescue effects for measles, mumps, rubella and whooping cough. <i>PLoS ONE</i> , <b>2013</b> , 8, e74696	3.7	29
93	Impact of birth seasonality on dynamics of acute immunizing infections in Sub-Saharan Africa. <i>PLoS ONE</i> , <b>2013</b> , 8, e75806	3.7	18
92	Urban cholera transmission hotspots and their implications for reactive vaccination: evidence from Bissau city, Guinea bissau. <i>PLoS Neglected Tropical Diseases</i> , <b>2012</b> , 6, e1901	4.8	41
91	Evolution of an Eurasian avian-like influenza virus in naïve and vaccinated pigs. <i>PLoS Pathogens</i> , <b>2012</b> , 8, e1002730	7.6	69
90	Impact of cross-protective vaccines on epidemiological and evolutionary dynamics of influenza. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 3173-7	11.5	52
89	Prolonged persistence of measles virus RNA is characteristic of primary infection dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 14989-94	11.5	77

88	Self-boosting vaccines and their implications for herd immunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 20154-9	11.5	11
87	Modeling rotavirus strain dynamics in developed countries to understand the potential impact of vaccination on genotype distributions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 19353-8	11.5	56
86	Boosting understanding of pertussis outbreaks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 7279-80	11.5	11
85	Synthesizing epidemiological and economic optima for control of immunizing infections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 14366-70	11.5	50
84	Influence of birth rates and transmission rates on the global seasonality of rotavirus incidence. <i>Journal of the Royal Society Interface</i> , <b>2011</b> , 8, 1584-93	4.1	61
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3	Quantifying the impact of US state non-pharmaceutical interventions on COVID-19 transmission		14
2	Immuno-epidemiological life-history and the dynamics of SARS-CoV-2 over the next five years		4
1	Vaccine nationalism and the dynamics and control of SARS-CoV-2		3