Azra C Ghani

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238 papers	19,537 citations	66 h-index	136 g-index
251 ext. papers	24,452 ext. citations	11.5 avg, IF	6.49 L-index

#	Paper	IF	Citations
238	Estimates of the severity of coronavirus disease 2019: a model-based analysis. *Lancet Infectious Diseases, The*, **2020**, 20, 669-677	25.5	2101
237	Estimating the effects of non-pharmaceutical interventions on COVID-19 in Europe. *Nature*, **2020**, 584, 257-261	50.4	1469
236	Pandemic potential of a strain of influenza A (H1N1): early findings. *Science*, **2009**, 324, 1557-61	33.3	1403
235	Transmission dynamics of the etiological agent of SARS in Hong Kong: impact of public health interventions. *Science*, **2003**, 300, 1961-6	33.3	823
234	Epidemiological determinants of spread of causal agent of severe acute respiratory syndrome in Hong Kong. *Lancet, The*, **2003**, 361, 1761-6	40	691
233	The impact of COVID-19 and strategies for mitigation and suppression in low- and middle-income countries. *Science*, **2020**, 369, 413-422	33.3	440
232	Factors determining the occurrence of submicroscopic malaria infections and their relevance for control. *Nature Communications*, **2012**, 3, 1237	17.4	395
231	Hitting hotspots: spatial targeting of malaria for control and elimination. *PLoS Medicine*, **2012**, 9, e1001156	11.6	391
230	Submicroscopic infection in Plasmodium falciparum-endemic populations: a systematic review and meta-analysis. *Journal of Infectious Diseases*, **2009**, 200, 1509-17	7	378
229	Household transmission of 2009 pandemic influenza A (H1N1) virus in the United States. *New England Journal of Medicine*, **2009**, 361, 2619-27	59.2	370
228	Reducing Plasmodium falciparum malaria transmission in Africa: a model-based evaluation of intervention strategies. *PLoS Medicine*, **2010**, 7, e1000324	11.6	362
227	Prevalence of lymphoreticular prion protein accumulation in UK tissue samples. *Journal of Pathology*, **2004**, 203, 733-9	9.4	335
226	Epidemiology, transmission dynamics and control of SARS: the 2002-2003 epidemic. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2004**, 359, 1091-105	5.8	312
225	Potential impact of the COVID-19 pandemic on HIV, tuberculosis, and malaria in low-income and middle-income countries: a modelling study. *The Lancet Global Health*, **2020**, 8, e1132-e1141	13.6	307
224	The role of acute and early HIV infection in the spread of HIV and implications for transmission prevention strategies in Lilongwe, Malawi: a modelling study. *Lancet, The*, **2011**, 378, 256-68	40	251
223	The epidemiology of severe acute respiratory syndrome in the 2003 Hong Kong epidemic: an analysis of all 1755 patients. *Annals of Internal Medicine*, **2004**, 141, 662-73	8	235
222	Revisiting the circulation time of Plasmodium falciparum gametocytes: molecular detection methods to estimate the duration of gametocyte carriage and the effect of gametocytocidal drugs. *Malaria Journal*, **2010**, 9, 136	3.6	190

221	The importance of mosquito behavioural adaptations to malaria control in Africa. *Evolution; International Journal of Organic Evolution*, **2013**, 67, 1218-30	3.8	188
220	Costs and cost-effectiveness of malaria control interventions--a systematic review. *Malaria Journal*, **2011**, 10, 337	3.6	180
219	The role of sexual partnership networks in the epidemiology of gonorrhea. *Sexually Transmitted Diseases*, **1997**, 24, 45-56	2.4	179
218	Assessing the severity of the novel influenza A/H1N1 pandemic. *BMJ, The*, **2009**, 339, b2840	5.9	175
217	Immunogenicity of the RTS,S/AS01 malaria vaccine and implications for duration of vaccine efficacy: secondary analysis of data from a phase 3 randomised controlled trial. *Lancet Infectious Diseases, The*, **2015**, 15, 1450-8	25.5	174
216	Methods for estimating the case fatality ratio for a novel, emerging infectious disease. *American Journal of Epidemiology*, **2005**, 162, 479-86	3.8	169
215	Dried blood spots as a source of anti-malarial antibodies for epidemiological studies. *Malaria Journal*, **2008**, 7, 195	3.6	165
214	Managing and reducing uncertainty in an emerging influenza pandemic. *New England Journal of Medicine*, **2009**, 361, 112-5	59.2	137
213	Predicted vCJD mortality in Great Britain. *Nature*, **2000**, 406, 583-4	50.4	137
212	Estimates of the changing age-burden of Plasmodium falciparum malaria disease in sub-Saharan Africa. *Nature Communications*, **2014**, 5, 3136	17.4	133
211	CD4 cell counts of 800 cells/mm3 or greater after 7 years of highly active antiretroviral therapy are feasible in most patients starting with 350 cells/mm3 or greater. *Journal of Acquired Immune Deficiency Syndromes (1999)*, **2007**, 45, 183-92	3.1	133
210	The relationship between RTS,S vaccine-induced antibodies, CD4+ T cell responses and protection against Plasmodium falciparum infection. *PLoS ONE*, **2013**, 8, e61395	3.7	132
209	Modelling the impact of vector control interventions on Anopheles gambiae population dynamics. *Parasites and Vectors*, **2011**, 4, 153	4	132
208	Rapid assessment of malaria transmission using age-specific sero-conversion rates. *PLoS ONE*, **2009**, 4, e6083	3.7	128
207	Mortality and progression to AIDS after starting highly active antiretroviral therapy. *Aids*, **2003**, 17, 2227-36	3.9	128
206	Public health. Public health risk from the avian H5N1 influenza epidemic. *Science*, **2004**, 304, 968-9	33.3	128
205	Comparison of diagnostics for the detection of asymptomatic Plasmodium falciparum infections to inform control and elimination strategies. *Nature*, **2015**, 528, S86-93	50.4	125
204	Reduction of transmission from malaria patients by artemisinin combination therapies: a pooled analysis of six randomized trials. *Malaria Journal*, **2008**, 7, 125	3.6	125

203	Determination of the processes driving the acquisition of immunity to malaria using a mathematical transmission model. *PLoS Computational Biology*, **2007**, 3, e255	5	120
202	Malaria morbidity and mortality in Ebola-affected countries caused by decreased health-care capacity, and the potential effect of mitigation strategies: a modelling analysis. *Lancet Infectious Diseases, The*, **2015**, 15, 825-32	25.5	111
201	Male circumcision for HIV prevention in high HIV prevalence settings: what can mathematical modelling contribute to informed decision making?. *PLoS Medicine*, **2009**, 6, e1000109	11.6	111
200	Public health impact and cost-effectiveness of the RTS,S/AS01 malaria vaccine: a systematic comparison of predictions from four mathematical models. *Lancet, The*, **2016**, 387, 367-375	40	107
199	Estimating the potential public health impact of seasonal malaria chemoprevention in African children. *Nature Communications*, **2012**, 3, 881	17.4	106
198	Modelling the impact of artemisinin combination therapy and long-acting treatments on malaria transmission intensity. *PLoS Medicine*, **2008**, 5, e226; discussion e226	11.6	106
197	The potential contribution of mass treatment to the control of Plasmodium falciparum malaria. *PLoS ONE*, **2011**, 6, e20179	3.7	104
196	Accumulation of prion protein in tonsil and appendix: review of tissue samples. *BMJ, The*, **2002**, 325, 633-4	5.9	100
195	Dynamics of the antibody response to Plasmodium falciparum infection in African children. *Journal of Infectious Diseases*, **2014**, 210, 1115-22	7	96
194	Interventions for avian influenza A (H5N1) risk management in live bird market networks. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 9177-82	11.5	95
193	Assessing the impact of next-generation rapid diagnostic tests on Plasmodium falciparum malaria elimination strategies. *Nature*, **2015**, 528, S94-101	50.4	94
192	Estimated risk of placental infection and low birthweight attributable to Plasmodium falciparum malaria in Africa in 2010: a modelling study. *The Lancet Global Health*, **2014**, 2, e460-7	13.6	88
191	Comparative analysis of the risks of hospitalisation and death associated with SARS-CoV-2 omicron (B.1.1.529) and delta (B.1.617.2) variants in England: a cohort study.. *Lancet, The*, **2022**,	40	86
190	Estimating the most efficient allocation of interventions to achieve reductions in Plasmodium falciparum malaria burden and transmission in Africa: a modelling study. *The Lancet Global Health*, **2016**, 4, e474-84	13.6	83
189	Epidemiological and genetic analysis of severe acute respiratory syndrome. *Lancet Infectious Diseases, The*, **2004**, 4, 672-83	25.5	79
188	Loss of population levels of immunity to malaria as a result of exposure-reducing interventions: consequences for interpretation of disease trends. *PLoS ONE*, **2009**, 4, e4383	3.7	77
187	Poultry movement networks in Cambodia: implications for surveillance and control of highly pathogenic avian influenza (HPAI/H5N1). *Vaccine*, **2009**, 27, 6345-52	4.1	77
186	Risks of acquiring and transmitting sexually transmitted diseases in sexual partner networks. *Sexually Transmitted Diseases*, **2000**, 27, 579-87	2.4	76

185	Retrospective study of prion-protein accumulation in tonsil and appendix tissues. *Lancet, The*, **2000**, 355, 1693-4	40	76
184	Pfhrp2-Deleted Plasmodium falciparum Parasites in the Democratic Republic of the Congo: A National Cross-sectional Survey. *Journal of Infectious Diseases*, **2017**, 216, 36-44	7	75
183	Role of mass drug administration in elimination of Plasmodium falciparum malaria: a consensus modelling study. *The Lancet Global Health*, **2017**, 5, e680-e687	13.6	74
182	Potential for reduction of burden and local elimination of malaria by reducing Plasmodium falciparum malaria transmission: a mathematical modelling study. *Lancet Infectious Diseases, The*, **2016**, 16, 465-72	25.5	74
181	Estimating the human health risk from possible BSE infection of the British sheep flock. *Nature*, **2002**, 415, 420-4	50.4	74
180	Implications of BSE infection screening data for the scale of the British BSE epidemic and current European infection levels. *Proceedings of the Royal Society B: Biological Sciences*, **2002**, 269, 2179-90	4.4	74
179	Estimates of the severity of COVID-19 disease		71
178	Efficacy of RTS,S malaria vaccines: individual-participant pooled analysis of phase 2 data. *Lancet Infectious Diseases, The*, **2013**, 13, 319-27	25.5	69
177	Sampling biases and missing data in explorations of sexual partner networks for the spread of sexually transmitted diseases. *Statistics in Medicine*, **1998**, 17, 2079-97	2.3	69
176	Identification of individuals with gonorrhoea within sexual networks: a population-based study. *Lancet, The*, **2006**, 368, 139-46	40	67
175	Seroprevalence of IgG antibodies to SARS-coronavirus in asymptomatic or subclinical population groups. *Epidemiology and Infection*, **2006**, 134, 211-21	4.3	67
174	The potential impact of adding ivermectin to a mass treatment intervention to reduce malaria transmission: a modelling study. *Journal of Infectious Diseases*, **2014**, 210, 1972-80	7	66
173	Response to COVID-19 in South Korea and implications for lifting stringent interventions. *BMC Medicine*, **2020**, 18, 321	11.4	66
172	Modelling the contribution of the hypnozoite reservoir to Plasmodium vivax transmission. *ELife*, **2014**, 3,	8.9	65
171	Incidence of Creutzfeldt-Jakob disease in Switzerland. *Lancet, The*, **2002**, 360, 139-41	40	64
170	Epidemiological determinants of the pattern and magnitude of the vCJD epidemic in Great Britain. *Proceedings of the Royal Society B: Biological Sciences*, **1998**, 265, 2443-52	4.4	63
169	The Early Transmission Dynamics of H1N1pdm Influenza in the United Kingdom. *PLOS Currents*, **2009**, 1, RRN1130		63
168	Contrasting benefits of different artemisinin combination therapies as first-line malaria treatments using model-based cost-effectiveness analysis. *Nature Communications*, **2014**, 5, 5606	17.4	62

167	The potential public health consequences of COVID-19 on malaria in Africa. *Nature Medicine*, **2020**, 26, 1411-1416	50.5	62
166	SARS-CoV antibody prevalence in all Hong Kong patient contacts. *Emerging Infectious Diseases*, **2004**, 10, 1653-6	10.2	61
165	Updated projections of future vCJD deaths in the UK. *BMC Infectious Diseases*, **2003**, 3, 4	4	60
164	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Setting-specific Transmission Rates: A Systematic Review and Meta-analysis. *Clinical Infectious Diseases*, **2021**, 73, e754-e764	11.6	60
163	Evidence of initial success for China exiting COVID-19 social distancing policy after achieving containment. *Wellcome Open Research*, **2020**, 5, 81	4.8	57
162	A combined analysis of immunogenicity, antibody kinetics and vaccine efficacy from phase 2 trials of the RTS,S malaria vaccine. *BMC Medicine*, **2014**, 12, 117	11.4	56
161	Gradual acquisition of immunity to severe malaria with increasing exposure. *Proceedings of the Royal Society B: Biological Sciences*, **2015**, 282, 20142657	4.4	56
160	Control of a highly pathogenic H5N1 avian influenza outbreak in the GB poultry flock. *Proceedings of the Royal Society B: Biological Sciences*, **2007**, 274, 2287-95	4.4	56
159	Projections of the future course of the primary vCJD epidemic in the UK: inclusion of subclinical infection and the possibility of wider genetic susceptibility. *Journal of the Royal Society Interface*, **2005**, 2, 19-31	4.1	56
158	Developing a realistic sexual network model of chlamydia transmission in Britain. *Theoretical Biology and Medical Modelling*, **2006**, 3, 3	2.3	56
157	Identifying live bird markets with the potential to act as reservoirs of avian influenza A (H5N1) virus: a survey in northern Viet Nam and Cambodia. *PLoS ONE*, **2012**, 7, e37986	3.7	56
156	Antigen-driven CD4+ T cell and HIV-1 dynamics: residual viral replication under highly active antiretroviral therapy. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 15167-72	11.5	55
155	Essential epidemiological mechanisms underpinning the transmission dynamics of seasonal influenza. *Journal of the Royal Society Interface*, **2012**, 9, 304-12	4.1	54
154	State-level tracking of COVID-19 in the United States. *Nature Communications*, **2020**, 11, 6189	17.4	54
153	Have deaths from COVID-19 in Europe plateaued due to herd immunity?. *Lancet, The*, **2020**, 395, e110-e111	60.1	53
152	Evaluating the impact of pulse oximetry on childhood pneumonia mortality in resource-poor settings. *Nature*, **2015**, 528, S53-9	50.4	53
151	Adapting hospital capacity to meet changing demands during the COVID-19 pandemic. *BMC Medicine*, **2020**, 18, 329	11.4	53
150	Overcoming health systems barriers to successful malaria treatment. *Trends in Parasitology*, **2013**, 29, 164-80	6.4	51

149	Factors determining the pattern of the variant Creutzfeldt-Jakob disease (vCJD) epidemic in the UK. *Proceedings of the Royal Society B: Biological Sciences*, **2003**, 270, 689-98	4.4	50
148	Mortality in patients with successful initial response to highly active antiretroviral therapy is still higher than in non-HIV-infected individuals. *Journal of Acquired Immune Deficiency Syndromes (1999)*, **2005**, 40, 212-8	3.1	50
147	Uncertainty in the tail of the variant Creutzfeldt-Jakob disease epidemic in the UK. *PLoS ONE*, **2010**, 5, e15626	3.7	48
146	Impact of the implementation of rest days in live bird markets on the dynamics of H5N1 highly pathogenic avian influenza. *Journal of the Royal Society Interface*, **2011**, 8, 1079-89	4.1	48
145	Gender difference in HIV-1 RNA viral loads. *HIV Medicine*, **2005**, 6, 170-8	2.7	48
144	Global impact of the first year of COVID-19 vaccination: a mathematical modelling study. *Lancet Infectious Diseases, The*, **2022**,	25.5	48
143	Modelling the drivers of the spread of gene deletions in sub-Saharan Africa. *ELife*, **2017**, 6,	8.9	47
142	The transmissibility of highly pathogenic avian influenza in commercial poultry in industrialised countries. *PLoS ONE*, **2007**, 2, e349	3.7	46
141	Evidence of initial success for China exiting COVID-19 social distancing policy after achieving containment. *Wellcome Open Research*, **2020**, 5, 81	4.8	45
140	Drug-Resistance and Population Structure of Plasmodium falciparum Across the Democratic Republic of Congo Using High-Throughput Molecular Inversion Probes. *Journal of Infectious Diseases*, **2018**, 218, 946-955	7	44
139	Mind the gap: the role of time between sex with two consecutive partners on the transmission dynamics of gonorrhea. *Sexually Transmitted Diseases*, **2008**, 35, 435-44	2.4	42
138	Reduction of the HIV-1-infected T-cell reservoir by immune activation treatment is dose-dependent and restricted by the potency of antiretroviral drugs. *Aids*, **2000**, 14, 659-69	3.5	42
137	Heterogeneity in malaria exposure and vaccine response: implications for the interpretation of vaccine efficacy trials. *Malaria Journal*, **2010**, 9, 82	3.6	41
136	A prospective social and molecular investigation of gonococcal transmission. *Lancet, The*, **2000**, 356, 1812-7	40	41
135	Comparison of the effectiveness of non-nucleoside reverse transcriptase inhibitor-containing and protease inhibitor-containing regimens using observational databases. *Aids*, **2001**, 15, 1133-42	3.5	39
134	Variation in relapse frequency and the transmission potential of Plasmodium vivax malaria. *Proceedings of the Royal Society B: Biological Sciences*, **2016**, 283, 20160048	4.4	38
133	Assessing the potential impact of artemisinin and partner drug resistance in sub-Saharan Africa. *Malaria Journal*, **2016**, 15, 10	3.6	37
132	Estimating air temperature and its influence on malaria transmission across Africa. *PLoS ONE*, **2013**, 8, e56487	3.7	37

131	Transmission and control of Plasmodium knowlesi: a mathematical modelling study. *PLoS Neglected Tropical Diseases*, **2014**, 8, e2978	4.8	36
130	Geographical and demographic clustering of gonorrhoea in London. *Sexually Transmitted Infections*, **2007**, 83, 481-7	2.8	36
129	A model of parity-dependent immunity to placental malaria. *Nature Communications*, **2013**, 4, 1609	17.4	35
128	Comparison of the risks of atherosclerotic events versus death from other causes associated with antiretroviral use. *Aids*, **2006**, 20, 1941-50	3.5	34
127	Key traveller groups of relevance to spatial malaria transmission: a survey of movement patterns in four sub-Saharan African countries. *Malaria Journal*, **2016**, 15, 200	3.6	33
126	Non-parametric estimation of the case fatality ratio with competing risks data: an application to Severe Acute Respiratory Syndrome (SARS). *Statistics in Medicine*, **2007**, 26, 1982-98	2.3	33
125	Modelling the cost-effectiveness of introducing the RTS,S malaria vaccine relative to scaling up other malaria interventions in sub-Saharan Africa. *BMJ Global Health*, **2017**, 2, e000090	6.6	32
124	Seasonality in malaria transmission: implications for case-management with long-acting artemisinin combination therapy in sub-Saharan Africa. *Malaria Journal*, **2015**, 14, 321	3.6	31
123	Investigating ethnic inequalities in the incidence of sexually transmitted infections: mathematical modelling study. *Sexually Transmitted Infections*, **2004**, 80, 379-85	2.8	31
122	Patterns of antiretroviral use in the United States of America: analysis of three observational databases. *HIV Medicine*, **2003**, 4, 24-32	2.7	31
121	Mathematical modelling of the impact of expanding levels of malaria control interventions on Plasmodium vivax. *Nature Communications*, **2018**, 9, 3300	17.4	30
120	HIV, sexually transmitted infections, and risk behaviours in male sex workers in London over a 10 year period. *Sexually Transmitted Infections*, **2006**, 82, 359-63	2.8	30
119	Non-pharmaceutical interventions, vaccination, and the SARS-CoV-2 delta variant in England: a mathematical modelling study. *Lancet, The*, **2021**, 398, 1825-1835	40	30
118	Key epidemiological drivers and impact of interventions in the 2020 SARS-CoV-2 epidemic in England. *Science Translational Medicine*, **2021**, 13,	17.5	30
117	Global investment targets for malaria control and elimination between 2016 and 2030. *BMJ Global Health*, **2017**, 2, e000176	6.6	29
116	Sexual partner networks in the transmission of sexually transmitted diseases. An analysis of gonorrhea cases in Sheffield, UK. *Sexually Transmitted Diseases*, **1996**, 23, 498-503	2.4	29
115	Estimating malaria transmission intensity from Plasmodium falciparum serological data using antibody density models. *Malaria Journal*, **2016**, 15, 79	3.6	27
114	Quantifying the mosquito's sweet tooth: modelling the effectiveness of attractive toxic sugar baits (ATSB) for malaria vector control. *Malaria Journal*, **2013**, 12, 291	3.6	27

113	Protective efficacy of intermittent preventive treatment of malaria in infants (IPTi) using sulfadoxine-pyrimethamine and parasite resistance. *PLoS ONE*, **2010**, 5, e12618	3.7	27
112	Frequency and patterns of contact with domestic poultry and potential risk of H5N1 transmission to humans living in rural Cambodia. *Influenza and Other Respiratory Viruses*, **2008**, 2, 155-63	5.6	27
111	Assessment of the prevalence of vCJD through testing tonsils and appendices for abnormal prion protein. *Proceedings of the Royal Society B: Biological Sciences*, **2000**, 267, 23-9	4.4	26
110	The impact of antimalarial resistance on the genetic structure of Plasmodium falciparum in the DRC. *Nature Communications*, **2020**, 11, 2107	17.4	25
109	Patterns of sex worker-client contacts and their implications for the persistence of sexually transmitted infections. *Journal of Infectious Diseases*, **2005**, 191 Suppl 1, S34-41	7	24
108	False-negative malaria rapid diagnostic test results and their impact on community-based malaria surveys in sub-Saharan Africa. *BMJ Global Health*, **2019**, 4, e001582	6.6	24
107	Mathematical models of human mobility of relevance to malaria transmission in Africa. *Scientific Reports*, **2018**, 8, 7713	4.9	24
106	Outbreaks of H5N1 in poultry in Thailand: the relative role of poultry production types in sustaining transmission and the impact of active surveillance in control. *Journal of the Royal Society Interface*, **2012**, 9, 1836-45	4.1	23
105	The transmission dynamics of BSE and vCJD. *Comptes Rendus - Biologies*, **2002**, 325, 37-47	1.4	23
104	Mathematical Modelling to Guide Drug Development for Malaria Elimination. *Trends in Parasitology*, **2017**, 33, 175-184	6.4	22
103	A Bayesian approach to quantifying the effects of mass poultry vaccination upon the spatial and temporal dynamics of H5N1 in Northern Vietnam. *PLoS Computational Biology*, **2010**, 6, e1000683	5	22
102	Is there the potential for an epidemic of variant Creutzfeldt-Jakob disease via blood transfusion in the UK?. *Journal of the Royal Society Interface*, **2007**, 4, 675-84	4.1	22
101	Within-country age-based prioritisation, global allocation, and public health impact of a vaccine against SARS-CoV-2: A mathematical modelling analysis. *Vaccine*, **2021**, 39, 2995-3006	4.1	22
100	Expanding the role of diagnostic and prognostic tools for infectious diseases in resource-poor settings. *Nature*, **2015**, 528, S50-2	50.4	21
99	Joint estimation of the basic reproduction number and generation time parameters for infectious disease outbreaks. *Biostatistics*, **2011**, 12, 303-12	3.7	21
98	Can changes in malaria transmission intensity explain prolonged protection and contribute to high protective efficacy of intermittent preventive treatment for malaria in infants?. *Malaria Journal*, **2008**, 7, 54	3.6	21
97	Plasmodium vivax and Plasmodium falciparum infection dynamics: re-infections, recrudescences and relapses. *Malaria Journal*, **2018**, 17, 170	3.6	20
96	Quantifying HIV-1 transmission due to contaminated injections. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 9794-9	11.5	20

95	Adherence to antiretroviral therapy and its impact on clinical outcome in HIV-infected patients. *Journal of the Royal Society Interface*, **2005**, 2, 349-63	4.1	20
94	Quantifying the transmissibility of human influenza and its seasonal variation in temperate regions. *PLOS Currents*, **2009**, 1, RRN1125		20
93	Ivermectin as a novel complementary malaria control tool to reduce incidence and prevalence: a modelling study. *Lancet Infectious Diseases, The*, **2020**, 20, 498-508	25.5	20
92	The US President's Malaria Initiative, Plasmodium falciparum transmission and mortality: A modelling study. *PLoS Medicine*, **2017**, 14, e1002448	11.6	19
91	Extending backcalculation to analyse BSE data. *Statistical Methods in Medical Research*, **2003**, 12, 177-90	2.3	19
90	Synergy in anti-malarial pre-erythrocytic and transmission-blocking antibodies is achieved by reducing parasite density. *ELife*, **2018**, 7,	8.9	19
89	Sexual partnership patterns in malawi: implications for HIV/STI transmission. *Sexually Transmitted Diseases*, **2011**, 38, 657-66	2.4	18
88	A metapopulation modelling framework for gonorrhoea and other sexually transmitted infections in heterosexual populations. *Journal of the Royal Society Interface*, **2009**, 6, 775-91	4.1	17
87	Leveraging community mortality indicators to infer COVID-19 mortality and transmission dynamics in Damascus, Syria. *Nature Communications*, **2021**, 12, 2394	17.4	17
86	The impact of delayed treatment of uncomplicated P. falciparum malaria on progression to severe malaria: A systematic review and a pooled multicentre individual-patient meta-analysis. *PLoS Medicine*, **2020**, 17, e1003359	11.6	16
85	Prioritizing the scale-up of interventions for malaria control and elimination. *Malaria Journal*, **2019**, 18, 122	3.6	15
84	Estimating the public health impact of the effect of herpes simplex virus suppressive therapy on plasma HIV-1 viral load. *Aids*, **2009**, 23, 1005-13	3.5	15
83	Efficacy model for antibody-mediated pre-erythrocytic malaria vaccines. *Proceedings of the Royal Society B: Biological Sciences*, **2011**, 278, 1298-305	4.4	14
82	The potential impact of improving appropriate treatment for fever on malaria and non-malarial febrile illness management in under-5s: a decision-tree modelling approach. *PLoS ONE*, **2013**, 8, e69654	3.7	14
81	Impact of seasonal variations in malaria transmission on the surveillance of gene deletions. *ELife*, **2019**, 8,	8.9	14
80	State-level tracking of COVID-19 in the United States		14
79	Assessing the impact of imperfect adherence to artemether-lumefantrine on malaria treatment outcomes using within-host modelling. *Nature Communications*, **2017**, 8, 1373	17.4	13
78	Under-reporting of deaths limits our understanding of true burden of covid-19. *BMJ, The*, **2021**, 375, n2239	5.9	13

77	Modelling pathogen load dynamics to elucidate mechanistic determinants of host-Plasmodium falciparum interactions. *Nature Microbiology*, **2019**, 4, 1592-1602	26.6	12
76	Modelling heterogeneity and the impact of chemotherapy and vaccination against human hookworm. *Journal of the Royal Society Interface*, **2008**, 5, 1329-41	4.1	12
75	Influence of Selected Formation Rules for Finite Population Networks with Fixed Macrostructures: Implications for Individual-Based Model of Infectious Diseases. *Mathematical Population Studies*, **2007**, 14, 237-267	0.8	12
74	Factors determining the potential for onward transmission of variant Creutzfeldt-Jakob disease via surgical instruments. *Journal of the Royal Society Interface*, **2006**, 3, 757-66	4.1	12
73	Persistence of two genotypes of Neisseria gonorrhoeae during transmission. *Journal of Clinical Microbiology*, **2003**, 41, 5609-14	9.7	12
72	Viral replication under combination antiretroviral therapy: a comparison of four different regimens. *Journal of Acquired Immune Deficiency Syndromes (1999)*, **2002**, 30, 167-76	3.1	12
71	Estimating spatiotemporally varying malaria reproduction numbers in a near elimination setting. *Nature Communications*, **2018**, 9, 2476	17.4	12
70	Vaccine approaches to malaria control and elimination: Insights from mathematical models. *Vaccine* , **2015**, 33, 7544-50	4.1	11
69	Modelling the protective efficacy of alternative delivery schedules for intermittent preventive treatment of malaria in infants and children. *PLoS ONE*, **2011**, 6, e18947	3.7	11
68	Populations and partnerships: insights from metapopulation and pair models into the epidemiology of gonorrhoea and other sexually transmitted infections. *Sexually Transmitted Infections*, **2010**, 86, 433-9	2.8	11
67	The effect on treatment comparisons of different measurement frequencies in human immunodeficiency virus observational databases. *American Journal of Epidemiology*, **2006**, 163, 676-83	3.8	11
66	Short-term projections for variant Creutzfeldt-Jakob disease onsets. *Statistical Methods in Medical Research*, **2003**, 12, 191-201	2.3	11
65	The 2020 SARS-CoV-2 epidemic in England: key epidemiological drivers and impact of interventions		11
64	A trade-off between dry season survival longevity and wet season high net reproduction can explain the persistence of Anopheles mosquitoes. *Parasites and Vectors*, **2018**, 11, 576	4	11
63	Plasmodium falciparum genetic variation of var2csa in the Democratic Republic of the Congo. *Malaria Journal*, **2018**, 17, 46	3.6	10
62	Modelling the benefits of long-acting or transmission-blocking drugs for reducing Plasmodium falciparum transmission by case management or by mass treatment. *Malaria Journal*, **2017**, 16, 341	3.6	9
61	Risk factors for UK Plasmodium falciparum cases. *Malaria Journal*, **2014**, 13, 298	3.6	9
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List of Publications

5 Estimated impact of RTS,S/AS01 malaria vaccine allocation strategies in sub-Saharan Africa: A modelling study **2020**, 17, e1003377

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