

David L Smith

List of Publications by Citations

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266
papers

40,059
citations

85
h-index

199
g-index

287
ext. papers

50,435
ext. citations

11
avg, IF

6.78
L-index

#	Paper	IF	Citations
266	Global, regional, and national incidence, prevalence, and years lived with disability for 354 diseases and injuries for 195 countries and territories, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017. <i>Lancet, The</i> , 2018 , 392, 1789-1858	40	4524
265	Global, regional, and national incidence, prevalence, and years lived with disability for 328 diseases and injuries for 195 countries, 1990-2016: a systematic analysis for the Global Burden of Disease Study 2016. <i>Lancet, The</i> , 2017 , 390, 1211-1259	40	3432
264	Global, regional, and national age-sex specific mortality for 264 causes of death, 1980-2016: a systematic analysis for the Global Burden of Disease Study 2016. <i>Lancet, The</i> , 2017 , 390, 1151-1210	40	2542
263	Global, regional, and national comparative risk assessment of 84 behavioural, environmental and occupational, and metabolic risks or clusters of risks for 195 countries and territories, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017. <i>Lancet, The</i> , 2018 , 392, 1923-1994	40	1964
262	The effect of malaria control on Plasmodium falciparum in Africa between 2000 and 2015. <i>Nature</i> , 2015 , 526, 207-211	50.4	1499
261	Global, regional, and national comparative risk assessment of 84 behavioural, environmental and occupational, and metabolic risks or clusters of risks, 1990-2016: a systematic analysis for the Global Burden of Disease Study 2016. <i>Lancet, The</i> , 2017 , 390, 1345-1422	40	1378
260	Global, regional, and national disability-adjusted life-years (DALYs) for 359 diseases and injuries and healthy life expectancy (HALE) for 195 countries and territories, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017. <i>Lancet, The</i> , 2018 , 392, 1859-1922	40	1283
259	Global, regional, and national disability-adjusted life-years (DALYs) for 333 diseases and injuries and healthy life expectancy (HALE) for 195 countries and territories, 1990-2016: a systematic analysis for the Global Burden of Disease Study 2016. <i>Lancet, The</i> , 2017 , 390, 1260-1344	40	1152
258	The global distribution of the arbovirus vectors <i>Aedes aegypti</i> and <i>Ae. albopictus</i> . <i>ELife</i> , 2015 , 4, e083478.9		995
257	Suberoylanilide hydroxamic acid, a histone deacetylase inhibitor, ameliorates motor deficits in a mouse model of Huntington's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 2041-6	11.5	734
256	Hospitalizations and deaths caused by methicillin-resistant <i>Staphylococcus aureus</i> , United States, 1999-2005. <i>Emerging Infectious Diseases</i> , 2007 , 13, 1840-6	10.2	627
255	Quantifying the impact of human mobility on malaria. <i>Science</i> , 2012 , 338, 267-70	33.3	604
254	Synchrony, waves, and spatial hierarchies in the spread of influenza. <i>Science</i> , 2006 , 312, 447-51	33.3	598
253	A new world malaria map: Plasmodium falciparum endemicity in 2010. <i>Malaria Journal</i> , 2011 , 10, 378	3.6	490
252	A world malaria map: Plasmodium falciparum endemicity in 2007. <i>PLoS Medicine</i> , 2009 , 6, e1000048	11.6	436
251	Global, regional, and national under-5 mortality, adult mortality, age-specific mortality, and life expectancy, 1970-2016: a systematic analysis for the Global Burden of Disease Study 2016. <i>Lancet, The</i> , 2017 , 390, 1084-1150	40	421
250	A long neglected world malaria map: Plasmodium vivax endemicity in 2010. <i>PLoS Neglected Tropical Diseases</i> , 2012 , 6, e1814	4.8	392

249	Hitting hotspots: spatial targeting of malaria for control and elimination. <i>PLoS Medicine</i> , 2012 , 9, e10011656	16.6	391
248	Past and future spread of the arbovirus vectors <i>Aedes aegypti</i> and <i>Aedes albopictus</i> . <i>Nature Microbiology</i> , 2019 , 4, 854-863	26.6	319
247	Animal antibiotic use has an early but important impact on the emergence of antibiotic resistance in human commensal bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 6434-9	11.5	316
246	Ross, macdonald, and a theory for the dynamics and control of mosquito-transmitted pathogens. <i>PLoS Pathogens</i> , 2012 , 8, e1002588	7.6	308
245	The limits and intensity of <i>Plasmodium falciparum</i> transmission: implications for malaria control and elimination worldwide. <i>PLoS Medicine</i> , 2008 , 5, e38	11.6	301
244	Revisiting the basic reproductive number for malaria and its implications for malaria control. <i>PLoS Biology</i> , 2007 , 5, e42	9.7	300
243	Statics and dynamics of malaria infection in <i>Anopheles</i> mosquitoes. <i>Malaria Journal</i> , 2004 , 3, 13	3.6	293
242	Malaria resurgence: a systematic review and assessment of its causes. <i>Malaria Journal</i> , 2012 , 11, 122	3.6	292
241	Predicting the spatial dynamics of rabies epidemics on heterogeneous landscapes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 3668-72	11.5	278
240	Operational strategies to achieve and maintain malaria elimination. <i>Lancet, The</i> , 2010 , 376, 1592-603	40	274
239	The entomological inoculation rate and <i>Plasmodium falciparum</i> infection in African children. <i>Nature</i> , 2005 , 438, 492-5	50.4	267
238	Modelling adult <i>Aedes aegypti</i> and <i>Aedes albopictus</i> survival at different temperatures in laboratory and field settings. <i>Parasites and Vectors</i> , 2013 , 6, 351	4	256
237	Climate change and the global malaria recession. <i>Nature</i> , 2010 , 465, 342-5	50.4	250
236	Measuring malaria endemicity from intense to interrupted transmission. <i>Lancet Infectious Diseases, The</i> , 2008 , 8, 369-78	25.5	248
235	A systematic review of mathematical models of mosquito-borne pathogen transmission: 1970-2010. <i>Journal of the Royal Society Interface</i> , 2013 , 10, 20120921	4.1	239
234	Estimating the reproductive numbers for the 2008-2009 cholera outbreaks in Zimbabwe. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 8767-72	11.5	236
233	Mapping the zoonotic niche of Ebola virus disease in Africa. <i>ELife</i> , 2014 , 3, e04395	8.9	234
232	The global burden of typhoid and paratyphoid fevers: a systematic analysis for the Global Burden of Disease Study 2017. <i>Lancet Infectious Diseases, The</i> , 2019 , 19, 369-381	25.5	234

231	The potential for respiratory droplet-transmissible A/H5N1 influenza virus to evolve in a mammalian host. <i>Science</i> , 2012 , 336, 1541-7	33.3	231
230	Targeting asymptomatic malaria infections: active surveillance in control and elimination. <i>PLoS Medicine</i> , 2013 , 10, e1001467	11.6	226
229	Measuring progress and projecting attainment on the basis of past trends of the health-related Sustainable Development Goals in 188 countries: an analysis from the Global Burden of Disease Study 2016. <i>Lancet, The</i> , 2017 , 390, 1423-1459	40	224
228	The risk of a mosquito-borne infection in a heterogeneous environment. <i>PLoS Biology</i> , 2004 , 2, e368	9.7	224
227	Hyperinfectivity: a critical element in the ability of <i>V. cholerae</i> to cause epidemics?. <i>PLoS Medicine</i> , 2006 , 3, e7	11.6	220
226	Global Epidemiology of <i>Plasmodium vivax</i> . <i>American Journal of Tropical Medicine and Hygiene</i> , 2016 , 95, 15-34	3.2	215
225	Global temperature constraints on <i>Aedes aegypti</i> and <i>Ae. albopictus</i> persistence and competence for dengue virus transmission. <i>Parasites and Vectors</i> , 2014 , 7, 338	4	212
224	Mortality, morbidity, and hospitalisations due to influenza lower respiratory tract infections, 2017: an analysis for the Global Burden of Disease Study 2017. <i>Lancet Respiratory Medicine, the</i> , 2019 , 7, 69-89	35.1	176
223	Geographical variation in <i>Plasmodium vivax</i> relapse. <i>Malaria Journal</i> , 2014 , 13, 144	3.6	167
222	Mapping <i>Plasmodium falciparum</i> Mortality in Africa between 1990 and 2015. <i>New England Journal of Medicine</i> , 2016 , 375, 2435-2445	59.2	166
221	Mapping HIV prevalence in sub-Saharan Africa between 2000 and 2017. <i>Nature</i> , 2019 , 570, 189-193	50.4	161
220	Mapping the global prevalence, incidence, and mortality of <i>Plasmodium falciparum</i> , 2000-17: a spatial and temporal modelling study. <i>Lancet, The</i> , 2019 , 394, 322-331	40	155
219	Mapping the global endemicity and clinical burden of <i>Plasmodium vivax</i> , 2000-17: a spatial and temporal modelling study. <i>Lancet, The</i> , 2019 , 394, 332-343	40	149
218	Risk factors for imipenem-resistant <i>Pseudomonas aeruginosa</i> among hospitalized patients. <i>Clinical Infectious Diseases</i> , 2002 , 34, 340-5	11.6	146
217	Standardizing estimates of the <i>Plasmodium falciparum</i> parasite rate. <i>Malaria Journal</i> , 2007 , 6, 131	3.6	144
216	Mapping under-5 and neonatal mortality in Africa, 2000-15: a baseline analysis for the Sustainable Development Goals. <i>Lancet, The</i> , 2017 , 390, 2171-2182	40	142
215	Spread of yellow fever virus outbreak in Angola and the Democratic Republic of the Congo 2015-16: a modelling study. <i>Lancet Infectious Diseases, The</i> , 2017 , 17, 330-338	25.5	140
214	Global mapping of infectious disease. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013 , 368, 20120250	5.8	139

213	Persistent colonization and the spread of antibiotic resistance in nosocomial pathogens: resistance is a regional problem. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 3709-14	11.5	139
212	Novel serologic biomarkers provide accurate estimates of recent Plasmodium falciparum exposure for individuals and communities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E4438-47	11.5	130
211	Modelling the global constraints of temperature on transmission of Plasmodium falciparum and P. vivax. <i>Parasites and Vectors</i> , 2011 , 4, 92	4	130
210	Host and viral ecology determine bat rabies seasonality and maintenance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 10208-13	11.5	130
209	Biased efficacy estimates in phase-III dengue vaccine trials due to heterogeneous exposure and differential detectability of primary infections across trial arms. <i>PLoS ONE</i> , 2019 , 14, e0210041	3.7	129
208	International population movements and regional Plasmodium falciparum malaria elimination strategies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 12222-7	11.5	126
207	Mapping child growth failure in Africa between 2000 and 2015. <i>Nature</i> , 2018 , 555, 41-47	50.4	118
206	Estimating the annual entomological inoculation rate for Plasmodium falciparum transmitted by Anopheles gambiae s.l. using three sampling methods in three sites in Uganda. <i>Malaria Journal</i> , 2014 , 13, 111	3.6	116
205	Malaria transmission, infection, and disease at three sites with varied transmission intensity in Uganda: implications for malaria control. <i>American Journal of Tropical Medicine and Hygiene</i> , 2015 , 92, 903-12	3.2	116
204	Measuring changes in Plasmodium falciparum transmission: precision, accuracy and costs of metrics. <i>Advances in Parasitology</i> , 2014 , 84, 151-208	3.2	115
203	The changing epidemiology of methicillin-resistant Staphylococcus aureus in the United States: a national observational study. <i>American Journal of Epidemiology</i> , 2013 , 177, 666-74	3.8	112
202	The use of mobile phone data for the estimation of the travel patterns and imported Plasmodium falciparum rates among Zanzibar residents. <i>Malaria Journal</i> , 2009 , 8, 287	3.6	112
201	Ranking of elimination feasibility between malaria-endemic countries. <i>Lancet, The</i> , 2010 , 376, 1579-91	40	111
200	Recasting the theory of mosquito-borne pathogen transmission dynamics and control. <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i> , 2014 , 108, 185-97	2	110
199	The geography of imported malaria to non-endemic countries: a meta-analysis of nationally reported statistics. <i>Lancet Infectious Diseases, The</i> , 2017 , 17, 98-107	25.5	105
198	Travel risk, malaria importation and malaria transmission in Zanzibar. <i>Scientific Reports</i> , 2011 , 1, 93	4.9	104
197	Integrating rapid risk mapping and mobile phone call record data for strategic malaria elimination planning. <i>Malaria Journal</i> , 2014 , 13, 52	3.6	103
196	The many projected futures of dengue. <i>Nature Reviews Microbiology</i> , 2015 , 13, 230-9	22.2	102

195	Strategic interactions in multi-institutional epidemics of antibiotic resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 3153-8	11.5	101
194	Heterogeneity, mixing, and the spatial scales of mosquito-borne pathogen transmission. <i>PLoS Computational Biology</i> , 2013 , 9, e1003327	5	99
193	Vectorial capacity and vector control: reconsidering sensitivity to parameters for malaria elimination. <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i> , 2016 , 110, 107-17	2	96
192	Human movement data for malaria control and elimination strategic planning. <i>Malaria Journal</i> , 2012 , 11, 205	3.6	96
191	Coverage and system efficiencies of insecticide-treated nets in Africa from 2000 to 2017. <i>ELife</i> , 2015 , 4,	8.9	94
190	How absolute is zero? An evaluation of historical and current definitions of malaria elimination. <i>Malaria Journal</i> , 2010 , 9, 213	3.6	92
189	A micro-epidemiological analysis of febrile malaria in Coastal Kenya showing hotspots within hotspots. <i>ELife</i> , 2014 , 3, e02130	8.9	92
188	Epidemiological patterns at multiple spatial scales: an 11-year study of a <i>Triphragmium ulmariae</i> \square <i>Filipendula ulmaria</i> metapopulation. <i>Journal of Ecology</i> , 2003 , 91, 890-903	6	91
187	Mapping 123 million neonatal, infant and child deaths between 2000 and 2017. <i>Nature</i> , 2019 , 574, 353-358.4	58.4	87
186	Benefits of using multiple first-line therapies against malaria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 14216-21	11.5	87
185	Dynamics of polymorphism in a malaria vaccine antigen at a vaccine-testing site in Mali. <i>PLoS Medicine</i> , 2007 , 4, e93	11.6	86
184	Identifying Malaria Transmission Foci for Elimination Using Human Mobility Data. <i>PLoS Computational Biology</i> , 2016 , 12, e1004846	5	86
183	Measures of Malaria Burden after Long-Lasting Insecticidal Net Distribution and Indoor Residual Spraying at Three Sites in Uganda: A Prospective Observational Study. <i>PLoS Medicine</i> , 2016 , 13, e1002167	11.6	86
182	An elaborated feeding cycle model for reductions in vectorial capacity of night-biting mosquitoes by insecticide-treated nets. <i>Malaria Journal</i> , 2007 , 6, 10	3.6	83
181	The unexpected importance of mosquito oviposition behaviour for malaria: non-productive larval habitats can be sources for malaria transmission. <i>Malaria Journal</i> , 2005 , 4, 23	3.6	83
180	Projected benefits of active surveillance for vancomycin-resistant enterococci in intensive care units. <i>Clinical Infectious Diseases</i> , 2004 , 38, 1108-15	11.6	82
179	Urbanization and the global malaria recession. <i>Malaria Journal</i> , 2013 , 12, 133	3.6	81
178	A research agenda for malaria eradication: modeling. <i>PLoS Medicine</i> , 2011 , 8, e1000403	11.6	80

177	Community-associated methicillin-resistant <i>Staphylococcus aureus</i> in outpatients, United States, 1999-2006. <i>Emerging Infectious Diseases</i> , 2009 , 15, 1925-30	10.2	79
176	A global assembly of adult female mosquito mark-release-recapture data to inform the control of mosquito-borne pathogens. <i>Parasites and Vectors</i> , 2014 , 7, 276	4	78
175	Predicting changing malaria risk after expanded insecticide-treated net coverage in Africa. <i>Trends in Parasitology</i> , 2009 , 25, 511-6	6.4	75
174	Role of mass drug administration in elimination of <i>Plasmodium falciparum</i> malaria: a consensus modelling study. <i>The Lancet Global Health</i> , 2017 , 5, e680-e687	13.6	74
173	A quantitative analysis of transmission efficiency versus intensity for malaria. <i>Nature Communications</i> , 2010 , 1, 108	17.4	73
172	Microbial diversity of biofilms in dental unit water systems. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 3412-20	4.8	73
171	Geographical distributions of African malaria vector sibling species and evidence for insecticide resistance. <i>Malaria Journal</i> , 2017 , 16, 85	3.6	72
170	Integrating vector control across diseases. <i>BMC Medicine</i> , 2015 , 13, 249	11.4	72
169	<i>Plasmodium vivax</i> Transmission in Africa. <i>PLoS Neglected Tropical Diseases</i> , 2015 , 9, e0004222	4.8	71
168	Indirect effects of the COVID-19 pandemic on malaria intervention coverage, morbidity, and mortality in Africa: a geospatial modelling analysis. <i>Lancet Infectious Diseases</i> , 2021 , 21, 59-69	25.5	71
167	Identifying groups at high risk for carriage of antibiotic-resistant bacteria. <i>Archives of Internal Medicine</i> , 2006 , 166, 580-5		70
166	Predictive spatial dynamics and strategic planning for raccoon rabies emergence in Ohio. <i>PLoS Biology</i> , 2005 , 3, e88	9.7	68
165	Variation in Childhood Diarrheal Morbidity and Mortality in Africa, 2000-2015. <i>New England Journal of Medicine</i> , 2018 , 379, 1128-1138	59.2	68
164	Agricultural antibiotics and human health. <i>PLoS Medicine</i> , 2005 , 2, e232	11.6	64
163	The path of least resistance: aggressive or moderate treatment?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014 , 281, 20140566	4.4	63
162	A sticky situation: the unexpected stability of malaria elimination. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013 , 368, 20120145	5.8	62
161	Progress and Challenges in Infectious Disease Cartography. <i>Trends in Parasitology</i> , 2016 , 32, 19-29	6.4	61
160	Improved prediction accuracy for disease risk mapping using Gaussian process stacked generalization. <i>Journal of the Royal Society Interface</i> , 2017 , 14,	4.1	61

159	Wind direction and proximity to larval sites determines malaria risk in Kilifi District in Kenya. <i>Nature Communications</i> , 2012 , 3, 674	17.4	61
158	Economic incentives and mathematical models of disease. <i>Environment and Development Economics</i> , 2007 , 12, 707-732	1.8	61
157	GEOGRAPHICAL DISTRIBUTION AND RISK FACTORS ASSOCIATED WITH ENTERIC DISEASES IN VIETNAM. <i>American Journal of Tropical Medicine and Hygiene</i> , 2007 , 76, 706-712	3.2	61
156	Potential impact of intermittent preventive treatment (IPT) on spread of drug-resistant malaria. <i>PLoS Medicine</i> , 2006 , 3, e141	11.6	59
155	Molecular epidemiology of O139 Vibrio cholerae: mutation, lateral gene transfer, and founder flush. <i>Emerging Infectious Diseases</i> , 2003 , 9, 810-4	10.2	59
154	Co-carriage rates of vancomycin-resistant Enterococcus and extended-spectrum beta-lactamase-producing bacteria among a cohort of intensive care unit patients: implications for an active surveillance program. <i>Infection Control and Hospital Epidemiology</i> , 2004 , 25, 105-8	2	58
153	Utilizing general human movement models to predict the spread of emerging infectious diseases in resource poor settings. <i>Scientific Reports</i> , 2019 , 9, 5151	4.9	55
152	Assessing the role of long-distance translocation and spatial heterogeneity in the raccoon rabies epidemic in Connecticut. <i>Preventive Veterinary Medicine</i> , 2005 , 71, 225-40	3.1	55
151	Quantification of anti-parasite and anti-disease immunity to malaria as a function of age and exposure. <i>ELife</i> , 2018 , 7,	8.9	55
150	Dengue disease outbreak definitions are implicitly variable. <i>Epidemics</i> , 2015 , 11, 92-102	5.1	54
149	Economic and physical determinants of the global distributions of crop pests and pathogens. <i>New Phytologist</i> , 2014 , 202, 901-910	9.8	54
148	Assessing risks for a pre-emergent pathogen: virginiamycin use and the emergence of streptogramin resistance in Enterococcus faecium. <i>Lancet Infectious Diseases</i> , 2003 , 3, 241-9	25.5	54
147	Malaria burden and control in Bangladesh and prospects for elimination: an epidemiological and economic assessment. <i>The Lancet Global Health</i> , 2014 , 2, e98-105	13.6	53
146	The use of census migration data to approximate human movement patterns across temporal scales. <i>PLoS ONE</i> , 2013 , 8, e52971	3.7	53
145	Endemicity response timelines for Plasmodium falciparum elimination. <i>Malaria Journal</i> , 2009 , 8, 87	3.6	53
144	Quantifying the Epidemiological Impact of Vector Control on Dengue. <i>PLoS Neglected Tropical Diseases</i> , 2016 , 10, e0004588	4.8	53
143	Defining the relationship between infection prevalence and clinical incidence of Plasmodium falciparum malaria. <i>Nature Communications</i> , 2015 , 6, 8170	17.4	52
142	Air temperature suitability for Plasmodium falciparum malaria transmission in Africa 2000-2012: a high-resolution spatiotemporal prediction. <i>Malaria Journal</i> , 2014 , 13, 171	3.6	51

141	Clinically immune hosts as a refuge for drug-sensitive malaria parasites. <i>Malaria Journal</i> , 2008 , 7, 67	3.6	51
140	Spatial control of rabies on heterogeneous landscapes. <i>PLoS ONE</i> , 2006 , 1, e27	3.7	50
139	A priori prediction of disease invasion dynamics in a novel environment. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004 , 271, 21-5	4.4	50
138	Preventing the reintroduction of malaria in Mauritius: a programmatic and financial assessment. <i>PLoS ONE</i> , 2011 , 6, e23832	3.7	50
137	Cholera in Haiti: reproductive numbers and vaccination coverage estimates. <i>Scientific Reports</i> , 2013 , 3, 997	4.9	49
136	Key strategies for reducing spread of avian influenza among commercial poultry holdings: lessons for transmission to humans. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006 , 273, 2467-75	4.4	48
135	Big city, small world: density, contact rates, and transmission of dengue across Pakistan. <i>Journal of the Royal Society Interface</i> , 2015 , 12, 20150468	4.1	47
134	"One-size-fits-all"? Optimizing treatment duration for bacterial infections. <i>PLoS ONE</i> , 2012 , 7, e29838	3.7	47
133	Ecological theory to enhance infectious disease control and public health policy. <i>Frontiers in Ecology and the Environment</i> , 2005 , 3, 29-37	5.5	47
132	Conservation Implications of Host Use for Rare Parasitic Plants. <i>Conservation Biology</i> , 1997 , 11, 839-848	6	46
131	Monte Carlo assessments of goodness-of-fit for ecological simulation models. <i>Ecological Modelling</i> , 2003 , 164, 49-63	3	46
130	Quantifying risks and interventions that have affected the burden of lower respiratory infections among children younger than 5 years: an analysis for the Global Burden of Disease Study 2017. <i>Lancet Infectious Diseases</i> , 2020 , 20, 60-79	25.5	46
129	The demographics of human and malaria movement and migration patterns in East Africa. <i>Malaria Journal</i> , 2013 , 12, 397	3.6	45
128	Improving pandemic influenza risk assessment. <i>ELife</i> , 2014 , 3, e03883	8.9	45
127	Membrane topology of a P-type ATPase. The MgtB magnesium transport protein of <i>Salmonella typhimurium</i> . <i>Journal of Biological Chemistry</i> , 1993 , 268, 22469-79	5.4	45
126	Optimally timing primaquine treatment to reduce <i>Plasmodium falciparum</i> transmission in low endemicity Thai-Myanmar border populations. <i>Malaria Journal</i> , 2009 , 8, 159	3.6	43
125	Mapping residual transmission for malaria elimination. <i>ELife</i> , 2015 , 4,	8.9	42
124	Seasonality of <i>Plasmodium falciparum</i> transmission: a systematic review. <i>Malaria Journal</i> , 2015 , 14, 343	3.6	41

123	The changing burden of malaria and association with vector control interventions in Zambia using district-level surveillance data, 2006-2011. <i>Malaria Journal</i> , 2013 , 12, 437	3.6	40
122	Theory and data for simulating fine-scale human movement in an urban environment. <i>Journal of the Royal Society Interface</i> , 2014 , 11,	4.1	40
121	Malaria's missing number: calculating the human component of R0 by a within-host mechanistic model of Plasmodium falciparum infection and transmission. <i>PLoS Computational Biology</i> , 2013 , 9, e1003025	5.025	40
120	Infectious disease. The stability of malaria elimination. <i>Science</i> , 2013 , 339, 909-10	33.3	39
119	A framework for assessing the feasibility of malaria elimination. <i>Malaria Journal</i> , 2010 , 9, 322	3.6	38
118	Will a global subsidy of new antimalarials delay the emergence of resistance and save lives?. <i>Health Affairs</i> , 2006 , 25, 325-36	7	38
117	Animal growth promoters: to ban or not to ban? A risk assessment approach. <i>International Journal of Antimicrobial Agents</i> , 2004 , 24, 205-12	14.3	38
116	Using parasite genetic and human mobility data to infer local and cross-border malaria connectivity in Southern Africa. <i>ELife</i> , 2019 , 8,	8.9	38
115	Prospective strategies to delay the evolution of anti-malarial drug resistance: weighing the uncertainty. <i>Malaria Journal</i> , 2010 , 9, 217	3.6	37
114	Quantifying risks and interventions that have affected the burden of diarrhoea among children younger than 5 years: an analysis of the Global Burden of Disease Study 2017. <i>Lancet Infectious Diseases</i> , 2020 , 20, 37-59	25.5	37
113	Mapping global variation in human mobility. <i>Nature Human Behaviour</i> , 2020 , 4, 800-810	12.8	36
112	The dynamics of mutations associated with anti-malarial drug resistance in Plasmodium falciparum. <i>Trends in Parasitology</i> , 2009 , 25, 557-63	6.4	36
111	Characterizing microscopic and submicroscopic malaria parasitaemia at three sites with varied transmission intensity in Uganda. <i>Malaria Journal</i> , 2016 , 15, 470	3.6	35
110	Mapping exclusive breastfeeding in Africa between 2000 and 2017. <i>Nature Medicine</i> , 2019 , 25, 1205-1213	30.5	34
109	Spatial heterogeneity, host movement and mosquito-borne disease transmission. <i>PLoS ONE</i> , 2015 , 10, e0127552	3.7	33
108	Modeling within-host effects of drugs on Plasmodium falciparum transmission and prospects for malaria elimination. <i>PLoS Computational Biology</i> , 2014 , 10, e1003434	5	33
107	Quantifying cross-border movements and migrations for guiding the strategic planning of malaria control and elimination. <i>Malaria Journal</i> , 2014 , 13, 169	3.6	33
106	Strain theory of malaria: the first 50 years. <i>Advances in Parasitology</i> , 2008 , 66, 1-46	3.2	33

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