David L Smith

List of Publications by Year in Descending Order

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	House design and risk of malaria, acute respiratory infection and gastrointestinal illness in Uganda: A cohort study. *PLOS Global Public Health*, **2022**, 2, e0000063		0
265	Infection age as a predictor of epidemiological metrics for malaria.. *Malaria Journal*, **2022**, 21, 117	3.6	0
264	Real-time, spatial decision support to optimize malaria vector control: The case of indoor residual spraying on Bioko Island, Equatorial Guinea **2022**, 1, e0000025		0
263	Modelling distributions of Aedes aegypti and Aedes albopictus using climate, host density and interspecies competition. *PLoS Neglected Tropical Diseases*, **2021**, 15, e0009063	4.8	3
262	Impact of seasonality and malaria control interventions on Anopheles density and species composition from three areas of Uganda with differing malaria endemicity. *Malaria Journal*, **2021**, 20, 138	3.6	4
261	A New Test of a Theory about Old Mosquitoes. *Trends in Parasitology*, **2021**, 37, 185-194	6.4	2
260	Comparing metapopulation dynamics of infectious diseases under different models of human movement. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
259	Performance of passive case detection for malaria surveillance: results from nine countries in Mesoamerica and the Dominican Republic. *Malaria Journal*, **2021**, 20, 208	3.6	0
258	Indirect effects of the COVID-19 pandemic on malaria intervention coverage, morbidity, and mortality in Africa: a geospatial modelling analysis. *Lancet Infectious Diseases, The*, **2021**, 21, 59-69	25.5	71
257	Within-household clustering of genetically related Plasmodium falciparum infections in a moderate transmission area of Uganda. *Malaria Journal*, **2021**, 20, 68	3.6	0
256	Quantifying malaria acquired during travel and its role in malaria elimination on Bioko Island. *Malaria Journal*, **2021**, 20, 359	3.6	1
255	Measuring the accuracy of gridded human population density surfaces: A case study in Bioko Island, Equatorial Guinea. *PLoS ONE*, **2021**, 16, e0248646	3.7	2
254	Mapping global variation in human mobility. *Nature Human Behaviour*, **2020**, 4, 800-810	12.8	36
253	Identification and characterization of immature Anopheles and culicines (Diptera: Culicidae) at three sites of varying malaria transmission intensities in Uganda. *Malaria Journal*, **2020**, 19, 221	3.6	4
252	Radiologic chest CT findings from COVID-19 in Orleans Parish, Louisiana. *Echocardiography*, **2020**, 37, 628-631	1.5	4
251	Vector bionomics and vectorial capacity as emergent properties of mosquito behaviors and ecology. *PLoS Computational Biology*, **2020**, 16, e1007446	5	5
250	Malaria Transmission, Infection, and Disease following Sustained Indoor Residual Spraying of Insecticide in Tororo, Uganda. *American Journal of Tropical Medicine and Hygiene*, **2020**, 103, 1525-1533	3.2	21

249	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. *Lancet Infectious Diseases, The*, **2020**, 20, 37-59	25.5	37
248	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. *Lancet Infectious Diseases, The*, **2020**, 20, 60-79	25.5	46
247	Malaria outbreak in Riaba district, Bioko Island: lessons learned. *Malaria Journal*, **2020**, 19, 277	3.6	5
246	Vector bionomics and vectorial capacity as emergent properties of mosquito behaviors and ecology **2020**, 16, e1007446		
245	Vector bionomics and vectorial capacity as emergent properties of mosquito behaviors and ecology **2020**, 16, e1007446		
244	Vector bionomics and vectorial capacity as emergent properties of mosquito behaviors and ecology **2020**, 16, e1007446		
243	Vector bionomics and vectorial capacity as emergent properties of mosquito behaviors and ecology **2020**, 16, e1007446		
242	Pareto rules for malaria super-spreaders and super-spreading. *Nature Communications*, **2019**, 10, 3939	17.4	23
241	Identifying residual hotspots and mapping lower respiratory infection morbidity and mortality in African children from 2000 to 2017. *Nature Microbiology*, **2019**, 4, 2310-2318	26.6	15
240	Biased efficacy estimates in phase-III dengue vaccine trials due to heterogeneous exposure and differential detectability of primary infections across trial arms. *PLoS ONE*, **2019**, 14, e0210041	3.7	129
239	Synergy and timing: a concurrent mass medical campaign predicted to augment indoor residual spraying for malaria. *Malaria Journal*, **2019**, 18, 160	3.6	5
238	Mapping the global prevalence, incidence, and mortality of Plasmodium falciparum, 2000-17: a spatial and temporal modelling study. *Lancet, The*, **2019**, 394, 322-331	40	155
237	Mapping the global endemicity and clinical burden of Plasmodium vivax, 2000-17: a spatial and temporal modelling study. *Lancet, The*, **2019**, 394, 332-343	40	149
236	Estimating the impact of city-wide Aedes aegypti population control: An observational study in Iquitos, Peru. *PLoS Neglected Tropical Diseases*, **2019**, 13, e0007255	4.8	8
235	Human mobility patterns and malaria importation on Bioko Island. *Nature Communications*, **2019**, 10, 2332	17.4	28
234	Mapping HIV prevalence in sub-Saharan Africa between 2000 and 2017. *Nature*, **2019**, 570, 189-193	50.4	161
233	Past and future spread of the arbovirus vectors Aedes aegypti and Aedes albopictus. *Nature Microbiology*, **2019**, 4, 854-863	26.6	319
232	Utilizing general human movement models to predict the spread of emerging infectious diseases in resource poor settings. *Scientific Reports*, **2019**, 9, 5151	4.9	55

231	An agent-based model of dengue virus transmission shows how uncertainty about breakthrough infections influences vaccination impact projections. *PLoS Computational Biology*, **2019**, 15, e1006710	5	17
230	Mapping exclusive breastfeeding in Africa between 2000 and 2017. *Nature Medicine*, **2019**, 25, 1205-1212	30.5	34
229	Model-based assessment of public health impact and cost-effectiveness of dengue vaccination following screening for prior exposure. *PLoS Neglected Tropical Diseases*, **2019**, 13, e0007482	4.8	15
228	Mapping 123 million neonatal, infant and child deaths between 2000 and 2017. *Nature*, **2019**, 574, 353-358	38.4	87
227	Using parasite genetic and human mobility data to infer local and cross-border malaria connectivity in Southern Africa. *ELife*, **2019**, 8,	8.9	38
226	The global burden of typhoid and paratyphoid fevers: a systematic analysis for the Global Burden of Disease Study 2017. *Lancet Infectious Diseases, The*, **2019**, 19, 369-381	25.5	234
225	Impact of vector control interventions on malaria transmission intensity, outdoor vector biting rates and Anopheles mosquito species composition in Tororo, Uganda. *Malaria Journal*, **2019**, 18, 445	3.6	25
224	Characterising malaria connectivity using malaria indicator survey data. *Malaria Journal*, **2019**, 18, 440	3.6	6
223	Mortality, morbidity, and hospitalisations due to influenza lower respiratory tract infections, 2017: an analysis for the Global Burden of Disease Study 2017. *Lancet Respiratory Medicine,the*, **2019**, 7, 69-89	35.1	176
222	Hilar asymmetry in endobronchial tuberculosis patients: An often-overlooked clue. *International Journal of Infectious Diseases*, **2019**, 80, 80-83	10.5	2
221	Mapping child growth failure in Africa between 2000 and 2015. *Nature*, **2018**, 555, 41-47	50.4	118
220	Medical and entomological malarial interventions, a comparison and synergy of two control measures using a Ross/Macdonald model variant and openmalaria simulation. *Mathematical Biosciences*, **2018**, 300, 187-200	3.9	4
219	Heterogeneous exposure and hotspots for malaria vectors at three study sites in Uganda. *Gates Open Research*, **2018**, 2, 32	2.4	14
218	Taking Sharper Pictures of Malaria with CAMERAs: Combined Antibodies to Measure Exposure Recency Assays. *American Journal of Tropical Medicine and Hygiene*, **2018**, 99, 1120-1127	3.2	15
217	Quantification of anti-parasite and anti-disease immunity to malaria as a function of age and exposure. *ELife*, **2018**, 7,	8.9	55
216	Inferences about spatiotemporal variation in dengue virus transmission are sensitive to assumptions about human mobility: a case study using geolocated tweets from Lahore, Pakistan. *EPJ Data Science*, **2018**, 7, 16	3.4	25
215	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. *Lancet, The*, **2018**, 392, 1923-1994	40	1964
214	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. *Lancet, The*, **2018**, 392, 1789-1858	40	4524

213	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. *Lancet, The*, **2018**, 392, 1859-1922	40	1283
212	Variation in Childhood Diarrheal Morbidity and Mortality in Africa, 2000-2015. *New England Journal of Medicine*, **2018**, 379, 1128-1138	59.2	68
211	Identification of a Novel Clinical Phenotype of Severe Malaria using a Network-Based Clustering Approach. *Scientific Reports*, **2018**, 8, 12849	4.9	2
210	Associated patterns of insecticide resistance in field populations of malaria vectors across Africa. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 5938-5943	11.5	33
209	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
208	Spread of yellow fever virus outbreak in Angola and the Democratic Republic of the Congo 2015-16: a modelling study. *Lancet Infectious Diseases, The*, **2017**, 17, 330-338	25.5	140
207	Mapping under-5 and neonatal mortality in Africa, 2000-15: a baseline analysis for the Sustainable Development Goals. *Lancet, The*, **2017**, 390, 2171-2182	40	142
206	malERA: An updated research agenda for combination interventions and modelling in malaria elimination and eradication. *PLoS Medicine*, **2017**, 14, e1002453	11.6	20
205	Travel patterns and demographic characteristics of malaria cases in Swaziland, 2010-2014. *Malaria Journal*, **2017**, 16, 359	3.6	24
204	Mapping multiple components of malaria risk for improved targeting of elimination interventions. *Malaria Journal*, **2017**, 16, 459	3.6	31
203	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. *Lancet, The*, **2017**, 390, 1084-1150	40	421
202	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. *Lancet, The*, **2017**, 390, 1260-1344	40	1152
201	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. *Lancet, The*, **2017**, 390, 1151-1210	40	2542
200	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. *Lancet, The*, **2017**, 390, 1211-1259	40	3432
199	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. *Lancet, The*, **2017**, 390, 1345-1422	40	1378
198	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. *Lancet, The*, **2017**, 390, 1423-1459	40	224
197	Improved prediction accuracy for disease risk mapping using Gaussian process stacked generalization. *Journal of the Royal Society Interface*, **2017**, 14,	4.1	61
196	Characterizing and quantifying human movement patterns using GPS data loggers in an area approaching malaria elimination in rural southern Zambia. *Royal Society Open Science*, **2017**, 4, 170046	3.3	23

195	Model citizen - AuthorsPreply. *The Lancet Global Health*, **2017**, 5, e974	13.6	1
194	Geographical distributions of African malaria vector sibling species and evidence for insecticide resistance. *Malaria Journal*, **2017**, 16, 85	3.6	72
193	Attacking the mosquito on multiple fronts: Insights from the Vector Control Optimization Model (VCOM) for malaria elimination. *PLoS ONE*, **2017**, 12, e0187680	3.7	14
192	The geography of imported malaria to non-endemic countries: a meta-analysis of nationally reported statistics. *Lancet Infectious Diseases, The*, **2017**, 17, 98-107	25.5	105
191	Parasite sources and sinks in a patched Ross-Macdonald malaria model with human and mosquito movement: Implications for control. *Mathematical Biosciences*, **2016**, 279, 90-101	3.9	21
190	Quantifying Heterogeneous Malaria Exposure and Clinical Protection in a Cohort of Ugandan Children. *Journal of Infectious Diseases*, **2016**, 214, 1072-80	7	18
189	Exploring the spatiotemporal drivers of malaria elimination in Europe. *Malaria Journal*, **2016**, 15, 122	3.6	18
188	Vectorial capacity and vector control: reconsidering sensitivity to parameters for malaria elimination. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, **2016**, 110, 107-17	2	96
187	Progress and Challenges in Infectious Disease Cartography. *Trends in Parasitology*, **2016**, 32, 19-29	6.4	61
186	Identifying Malaria Transmission Foci for Elimination Using Human Mobility Data. *PLoS Computational Biology*, **2016**, 12, e1004846	5	86
185	Quantifying the Epidemiological Impact of Vector Control on Dengue. *PLoS Neglected Tropical Diseases*, **2016**, 10, e0004588	4.8	53
184	Characterizing microscopic and submicroscopic malaria parasitaemia at three sites with varied transmission intensity in Uganda. *Malaria Journal*, **2016**, 15, 470	3.6	35
183	Quantitative, model-based estimates of variability in the generation and serial intervals of Plasmodium falciparum malaria. *Malaria Journal*, **2016**, 15, 490	3.6	16
182	Measures of Malaria Burden after Long-Lasting Insecticidal Net Distribution and Indoor Residual Spraying at Three Sites in Uganda: A Prospective Observational Study. *PLoS Medicine*, **2016**, 13, e1002167	11.6	86
181	Spatio-temporal analysis of malaria vector density from baseline through intervention in a high transmission setting. *Parasites and Vectors*, **2016**, 9, 637	4	14
180	Mapping Plasmodium falciparum Mortality in Africa between 1990 and 2015. *New England Journal of Medicine*, **2016**, 375, 2435-2445	59.2	166
179	Global Epidemiology of Plasmodium vivax. *American Journal of Tropical Medicine and Hygiene*, **2016**, 95, 15-34	3.2	215
178	Climate change, urbanization and disease: summer in the city *Transactions of the Royal Society of Tropical Medicine and Hygiene*, **2015**, 109, 171-2	2	11

177	The many projected futures of dengue. *Nature Reviews Microbiology*, **2015**, 13, 230-9	22.2	102
176	Adult vector control, mosquito ecology and malaria transmission. *International Health*, **2015**, 7, 121-9	2.4	24
175	Dengue disease outbreak definitions are implicitly variable. *Epidemics*, **2015**, 11, 92-102	5.1	54
174	Defining the relationship between infection prevalence and clinical incidence of Plasmodium falciparum malaria. *Nature Communications*, **2015**, 6, 8170	17.4	52
173	Novel serologic biomarkers provide accurate estimates of recent Plasmodium falciparum exposure for individuals and communities. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E4438-47	11.5	130
172	Experience- and age-mediated oviposition behaviour in the yellow fever mosquito Stegomyia aegypti (=Aedes aegypti). *Medical and Veterinary Entomology*, **2015**, 29, 255-62	2.4	5
171	Malaria genotyping for epidemiologic surveillance. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 6782-3	11.5	14
170	The effect of malaria control on Plasmodium falciparum in Africa between 2000 and 2015. *Nature*, **2015**, 526, 207-211	50.4	1499
169	Entomological Monitoring and Evaluation: Diverse Transmission Settings of ICEMR Projects Will Require Local and Regional Malaria Elimination Strategies. *American Journal of Tropical Medicine and Hygiene*, **2015**, 93, 28-41	3.2	21
168	From puddles to planet: modeling approaches to vector-borne diseases at varying resolution and scale. *Current Opinion in Insect Science*, **2015**, 10, 118-123	5.1	4
167	Bioeconomic analysis of child-targeted subsidies for artemisinin combination therapies: a cost-effectiveness analysis. *Journal of the Royal Society Interface*, **2015**, 12,	4.1	1
166	A functional connectome: regulation of Wnt/TCF-dependent transcription by pairs of pathway activators. *Molecular Cancer*, **2015**, 14, 206	42.1	9
165	Global database of matched Plasmodium falciparum and P. vivax incidence and prevalence records from 1985-2013. *Scientific Data*, **2015**, 2, 150012	8.2	19
164	Distribution of malaria exposure in endemic countries in Africa considering country levels of effective treatment. *Malaria Journal*, **2015**, 14, 384	3.6	14
163	Associations between urbanicity and malaria at local scales in Uganda. *Malaria Journal*, **2015**, 14, 374	3.6	16
162	Integrating vector control across diseases. *BMC Medicine*, **2015**, 13, 249	11.4	72
161	Seasonality of Plasmodium falciparum transmission: a systematic review. *Malaria Journal*, **2015**, 14, 343	3.6	41
160	Spatial heterogeneity, host movement and mosquito-borne disease transmission. *PLoS ONE*, **2015**, 10, e0127552	3.7	33

159	Plasmodium vivax Transmission in Africa. *PLoS Neglected Tropical Diseases*, **2015**, 9, e0004222	4.8	71
158	The global distribution of the arbovirus vectors Aedes aegypti and Ae. albopictus. *ELife*, **2015**, 4, e08347	8.9	995
157	Defining the relationship between Plasmodium vivax parasite rate and clinical disease. *Malaria Journal*, **2015**, 14, 191	3.6	8
156	Malaria transmission, infection, and disease at three sites with varied transmission intensity in Uganda: implications for malaria control. *American Journal of Tropical Medicine and Hygiene*, **2015**, 92, 903-12	3.2	116
155	Estimating malaria transmission from humans to mosquitoes in a noisy landscape. *Journal of the Royal Society Interface*, **2015**, 12, 20150478	4.1	7
154	Big city, small world: density, contact rates, and transmission of dengue across Pakistan. *Journal of the Royal Society Interface*, **2015**, 12, 20150468	4.1	47
153	Author response: The global distribution of the arbovirus vectors Aedes aegypti and Ae. albopictus **2015**,		6
152	Mapping residual transmission for malaria elimination. *ELife*, **2015**, 4,	8.9	42
151	Coverage and system efficiencies of insecticide-treated nets in Africa from 2000 to 2017. *ELife*, **2015**, 4,	8.9	94
150	Selection of interdependent choice of 2 complementary resources. *Behavioral Ecology*, **2014**, 25, 35-43	2.3	
149	Declining malaria in Africa: improving the measurement of progress. *Malaria Journal*, **2014**, 13, 39	3.6	32
148	Integrating rapid risk mapping and mobile phone call record data for strategic malaria elimination planning. *Malaria Journal*, **2014**, 13, 52	3.6	103
147	A global assembly of adult female mosquito mark-release-recapture data to inform the control of mosquito-borne pathogens. *Parasites and Vectors*, **2014**, 7, 276	4	78
146	Global temperature constraints on Aedes aegypti and Ae. albopictus persistence and competence for dengue virus transmission. *Parasites and Vectors*, **2014**, 7, 338	4	212
145	Estimating the annual entomological inoculation rate for Plasmodium falciparum transmitted by Anopheles gambiae s.l. using three sampling methods in three sites in Uganda. *Malaria Journal*, **2014**, 13, 111	3.6	116
144	Geographical variation in Plasmodium vivax relapse. *Malaria Journal*, **2014**, 13, 144	3.6	167
143	Air temperature suitability for Plasmodium falciparum malaria transmission in Africa 2000-2012: a high-resolution spatiotemporal prediction. *Malaria Journal*, **2014**, 13, 171	3.6	51
142	Malaria burden and control in Bangladesh and prospects for elimination: an epidemiological and economic assessment. *The Lancet Global Health*, **2014**, 2, e98-105	13.6	53

141	Improving pandemic influenza risk assessment. *ELife*, **2014**, 3, e03883	8.9	45
140	Mapping the zoonotic niche of Ebola virus disease in Africa. *ELife*, **2014**, 3, e04395	8.9	234
139	Human Interventions on the Evolution of Host-Bacterium Interactions **2014**, 51-62		
138	The path of least resistance: aggressive or moderate treatment?. *Proceedings of the Royal Society B: Biological Sciences*, **2014**, 281, 20140566	4.4	63
137	A multiplex technology platform for the rapid analysis of clinically actionable genetic alterations and validation for BRAF p.V600E detection in 1549 cytologic and histologic specimens. *Archives of Pathology and Laboratory Medicine*, **2014**, 138, 371-8	5	10
136	Modeling within-host effects of drugs on Plasmodium falciparum transmission and prospects for malaria elimination. *PLoS Computational Biology*, **2014**, 10, e1003434	5	33
135	Recasting the theory of mosquito-borne pathogen transmission dynamics and control. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, **2014**, 108, 185-97	2	110
134	Economic and physical determinants of the global distributions of crop pests and pathogens. *New Phytologist*, **2014**, 202, 901-910	9.8	54
133	Theory and data for simulating fine-scale human movement in an urban environment. *Journal of the Royal Society Interface*, **2014**, 11,	4.1	40
132	Measuring changes in Plasmodium falciparum transmission: precision, accuracy and costs of metrics. *Advances in Parasitology*, **2014**, 84, 151-208	3.2	115
131	Quantifying cross-border movements and migrations for guiding the strategic planning of malaria control and elimination. *Malaria Journal*, **2014**, 13, 169	3.6	33
130	A micro-epidemiological analysis of febrile malaria in Coastal Kenya showing hotspots within hotspots. *ELife*, **2014**, 3, e02130	8.9	92
129	Author response: Mapping the zoonotic niche of Ebola virus disease in Africa **2014**,		5
128	Author response: Improving pandemic influenza risk assessment **2014**,		2
127	Urbanization and the global malaria recession. *Malaria Journal*, **2013**, 12, 133	3.6	81
126	Synergism from combinations of infection-blocking malaria vaccines. *Malaria Journal*, **2013**, 12, 280	3.6	7
125	The changing burden of malaria and association with vector control interventions in Zambia using district-level surveillance data, 2006-2011. *Malaria Journal*, **2013**, 12, 437	3.6	40
124	Modelling adult Aedes aegypti and Aedes albopictus survival at different temperatures in laboratory and field settings. *Parasites and Vectors*, **2013**, 6, 351	4	256

123	The demographics of human and malaria movement and migration patterns in East Africa. *Malaria Journal*, **2013**, 12, 397	3.6	45
122	The changing epidemiology of methicillin-resistant Staphylococcus aureus in the United States: a national observational study. *American Journal of Epidemiology*, **2013**, 177, 666-74	3.8	112
121	A systematic review of mathematical models of mosquito-borne pathogen transmission: 1970-2010. *Journal of the Royal Society Interface*, **2013**, 10, 20120921	4.1	239
120	Infectious disease. The stability of malaria elimination. *Science*, **2013**, 339, 909-10	33.3	39
119	Global mapping of infectious disease. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2013**, 368, 20120250	5.8	139
118	Cholera in Haiti: reproductive numbers and vaccination coverage estimates. *Scientific Reports*, **2013**, 3, 997	4.9	49
117	Heterogeneity, mixing, and the spatial scales of mosquito-borne pathogen transmission. *PLoS Computational Biology*, **2013**, 9, e1003327	5	99
116	Targeting asymptomatic malaria infections: active surveillance in control and elimination. *PLoS Medicine*, **2013**, 10, e1001467	11.6	226
115	Malaria's missing number: calculating the human component of R0 by a within-host mechanistic model of Plasmodium falciparum infection and transmission. *PLoS Computational Biology*, **2013**, 9, e1003025	5	40
114	A sticky situation: the unexpected stability of malaria elimination. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2013**, 368, 20120145	5.8	62
113	The use of census migration data to approximate human movement patterns across temporal scales. *PLoS ONE*, **2013**, 8, e52971	3.7	53
112	Efficiency of household reactive case detection for malaria in rural Southern Zambia: simulations based on cross-sectional surveys from two epidemiological settings. *PLoS ONE*, **2013**, 8, e70972	3.7	18
111	Mosquito population regulation and larval source management in heterogeneous environments. *PLoS ONE*, **2013**, 8, e71247	3.7	31
110	Superinfection and the evolution of resistance to antimalarial drugs. *Proceedings of the Royal Society B: Biological Sciences*, **2012**, 279, 3834-42	4.4	26
109	"One-size-fits-all"? Optimizing treatment duration for bacterial infections. *PLoS ONE*, **2012**, 7, e29838	3.7	47
108	Human movement data for malaria control and elimination strategic planning. *Malaria Journal*, **2012**, 11, 205	3.6	96
107	Malaria resurgence: a systematic review and assessment of its causes. *Malaria Journal*, **2012**, 11, 122	3.6	292
106	The potential for respiratory droplet-transmissible A/H5N1 influenza virus to evolve in a mammalian host. *Science*, **2012**, 336, 1541-7	33.3	231

105	Ross, macdonald, and a theory for the dynamics and control of mosquito-transmitted pathogens. *PLoS Pathogens*, **2012**, 8, e1002588	7.6	308
104	A long neglected world malaria map: Plasmodium vivax endemicity in 2010. *PLoS Neglected Tropical Diseases*, **2012**, 6, e1814	4.8	392
103	Hitting hotspots: spatial targeting of malaria for control and elimination. *PLoS Medicine*, **2012**, 9, e1001656	11.6	391
102	In-roads to the spread of antibiotic resistance: regional patterns of microbial transmission in northern coastal Ecuador. *Journal of the Royal Society Interface*, **2012**, 9, 1029-39	4.1	17
101	Wind direction and proximity to larval sites determines malaria risk in Kilifi District in Kenya. *Nature Communications*, **2012**, 3, 674	17.4	61
100	Quantifying the impact of human mobility on malaria. *Science*, **2012**, 338, 267-70	33.3	604
99	A research agenda for malaria eradication: modeling. *PLoS Medicine*, **2011**, 8, e1000403	11.6	80
98	Travel risk, malaria importation and malaria transmission in Zanzibar. *Scientific Reports*, **2011**, 1, 93	4.9	104
97	Co-evolutionary hot and cold spots of selective pressure move in space and time. *Journal of Ecology* , **2011**, 99, no-no	6	7
96	Modelling the global constraints of temperature on transmission of Plasmodium falciparum and P. vivax. *Parasites and Vectors*, **2011**, 4, 92	4	130
95	A new world malaria map: Plasmodium falciparum endemicity in 2010. *Malaria Journal*, **2011**, 10, 378	3.6	490
94	Estimating the reproductive numbers for the 2008-2009 cholera outbreaks in Zimbabwe. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 8767-72	11.5	236
93	Infectious disease. Solving the Sisyphean problem of malaria in Zanzibar. *Science*, **2011**, 332, 1384-5	33.3	27
92	Host and viral ecology determine bat rabies seasonality and maintenance. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 10208-13	11.5	130
91	Preventing the reintroduction of malaria in Mauritius: a programmatic and financial assessment. *PLoS ONE*, **2011**, 6, e23832	3.7	50
90	Climate change and the global malaria recession. *Nature*, **2010**, 465, 342-5	50.4	250
89	International population movements and regional Plasmodium falciparum malaria elimination strategies. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 12222-7	11.5	126
88	A quantitative analysis of transmission efficiency versus intensity for malaria. *Nature Communications*, **2010**, 1, 108	17.4	73

87	Should new antimalarial drugs be subsidized?. *Journal of Health Economics*, **2010**, 29, 445-56	3.5	17
86	Operational strategies to achieve and maintain malaria elimination. *Lancet, The*, **2010**, 376, 1592-603	40	274
85	Ranking of elimination feasibility between malaria-endemic countries. *Lancet, The*, **2010**, 376, 1579-91	40	111
84	A framework for assessing the feasibility of malaria elimination. *Malaria Journal*, **2010**, 9, 322	3.6	38
83	Prospective strategies to delay the evolution of anti-malarial drug resistance: weighing the uncertainty. *Malaria Journal*, **2010**, 9, 217	3.6	37
82	How absolute is zero? An evaluation of historical and current definitions of malaria elimination. *Malaria Journal*, **2010**, 9, 213	3.6	92
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3	Measuring the accuracy of gridded human population density surfaces: a case study in Bioko Island, Equatorial Guinea		4
2	Heterogeneous Exposure and Hotspots for Malaria Vectors at Three Study Sites in Uganda		1
1	Pre-existing partner-drug resistance facilitates the emergence and spread of artemisinin resistance: a consensus modelling study		1