

Andrew J Tatem

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5875044/andrew-j-tatem-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

258
papers

19,835
citations

76
h-index

135
g-index

277
ext. papers

24,135
ext. citations

8.7
avg, IF

7.1
L-index

#	Paper	IF	Citations
258	The global distribution and population at risk of malaria: past, present, and future. <i>Lancet Infectious Diseases, The</i> , 2004 , 4, 327-36	25.5	633
257	Quantifying the impact of human mobility on malaria. <i>Science</i> , 2012 , 338, 267-70	33.3	604
256	Effect of non-pharmaceutical interventions to contain COVID-19 in China. <i>Nature</i> , 2020 , 585, 410-413	50.4	523
255	Global threats from invasive alien species in the twenty-first century and national response capacities. <i>Nature Communications</i> , 2016 , 7, 12485	17.4	513
254	A new world malaria map: Plasmodium falciparum endemicity in 2010. <i>Malaria Journal</i> , 2011 , 10, 378	3.6	490
253	Dynamic population mapping using mobile phone data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 15888-93	11.5	487
252	A world malaria map: Plasmodium falciparum endemicity in 2007. <i>PLoS Medicine</i> , 2009 , 6, e1000048	11.6	436
251	Disaggregating census data for population mapping using random forests with remotely-sensed and ancillary data. <i>PLoS ONE</i> , 2015 , 10, e0107042	3.7	427
250	Urbanization, malaria transmission and disease burden in Africa. <i>Nature Reviews Microbiology</i> , 2005 , 3, 81-90	22.2	394
249	A long neglected world malaria map: Plasmodium vivax endemicity in 2010. <i>PLoS Neglected Tropical Diseases</i> , 2012 , 6, e1814	4.8	392
248	HIV epidemiology. The early spread and epidemic ignition of HIV-1 in human populations. <i>Science</i> , 2014 , 346, 56-61	33.3	370
247	Global traffic and disease vector dispersal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 6242-7	11.5	366
246	The international limits and population at risk of Plasmodium vivax transmission in 2009. <i>PLoS Neglected Tropical Diseases</i> , 2010 , 4, e774	4.8	353
245	Population distribution, settlement patterns and accessibility across Africa in 2010. <i>PLoS ONE</i> , 2012 , 7, e31743	3.7	346
244	Quantifying the number of pregnancies at risk of malaria in 2007: a demographic study. <i>PLoS Medicine</i> , 2010 , 7, e1000221	11.6	339
243	Past and future spread of the arbovirus vectors Aedes aegypti and Aedes albopictus. <i>Nature Microbiology</i> , 2019 , 4, 854-863	26.6	319
242	Global transport networks and infectious disease spread. <i>Advances in Parasitology</i> , 2006 , 62, 293-343	3.2	315

241	The limits and intensity of Plasmodium falciparum transmission: implications for malaria control and elimination worldwide. <i>PLoS Medicine</i> , 2008 , 5, e38	11.6	301
240	WorldPop, open data for spatial demography. <i>Scientific Data</i> , 2017 , 4, 170004	8.2	276
239	Estimating the global clinical burden of Plasmodium falciparum malaria in 2007. <i>PLoS Medicine</i> , 2010 , 7, e1000290	11.6	252
238	Climate change and the global malaria recession. <i>Nature</i> , 2010 , 465, 342-5	50.4	250
237	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
236	Virus genomes reveal factors that spread and sustained the Ebola epidemic. <i>Nature</i> , 2017 , 544, 309-315	50.4	238
235	Mapping the zoonotic niche of Ebola virus disease in Africa. <i>ELife</i> , 2014 , 3, e04395	8.9	234
234	Mapping global environmental suitability for Zika virus. <i>ELife</i> , 2016 , 5,	8.9	231
233	Super-resolution land cover pattern prediction using a Hopfield neural network. <i>Remote Sensing of Environment</i> , 2002 , 79, 1-14	13.2	186
232	Global data for ecology and epidemiology: a novel algorithm for temporal Fourier processing MODIS data. <i>PLoS ONE</i> , 2008 , 3, e1408	3.7	185
231	Insecticide-treated net coverage in Africa: mapping progress in 2000-07. <i>Lancet, The</i> , 2009 , 373, 58-67	40	160
230	High resolution population distribution maps for Southeast Asia in 2010 and 2015. <i>PLoS ONE</i> , 2013 , 8, e55882	3.7	157
229	Global epidemiology of avian influenza A H5N1 virus infection in humans, 1997-2015: a systematic review of individual case data. <i>Lancet Infectious Diseases, The</i> , 2016 , 16, e108-e118	25.5	152
228	Assessment of the potential for international dissemination of Ebola virus via commercial air travel during the 2014 west African outbreak. <i>Lancet, The</i> , 2015 , 385, 29-35	40	149
227	The changing epidemiology of dengue in China, 1990-2014: a descriptive analysis of 25 years of nationwide surveillance data. <i>BMC Medicine</i> , 2015 , 13, 100	11.4	148
226	Explaining seasonal fluctuations of measles in Niger using nighttime lights imagery. <i>Science</i> , 2011 , 334, 1424-7	33.3	146
225	High resolution global gridded data for use in population studies. <i>Scientific Data</i> , 2017 , 4, 170001	8.2	145
224	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

223	Spatially disaggregated population estimates in the absence of national population and housing census data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 3529-3537	11.5	136
222	<i>Clostridium difficile</i> PCR ribotype 027: assessing the risks of further worldwide spread. <i>Lancet Infectious Diseases</i> , 2010 , 10, 395-404	25.5	136
221	High resolution population maps for low income nations: combining land cover and census in East Africa. <i>PLoS ONE</i> , 2007 , 2, e1298	3.7	135
220	Reduced vaccination and the risk of measles and other childhood infections post-Ebola. <i>Science</i> , 2015 , 347, 1240-2	33.3	130
219	The accuracy of human population maps for public health application. <i>Tropical Medicine and International Health</i> , 2005 , 10, 1073-86	2.3	127
218	International population movements and regional <i>Plasmodium falciparum</i> 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
217	Predicting the risk of avian influenza A H7N9 infection in live-poultry markets across Asia. <i>Nature Communications</i> , 2014 , 5, 4116	17.4	124
216	Mapping poverty using mobile phone and satellite data. <i>Journal of the Royal Society Interface</i> , 2017 , 14,	4.1	120
215	The co-distribution of <i>Plasmodium falciparum</i> and hookworm among African schoolchildren. <i>Malaria Journal</i> , 2006 , 5, 99	3.6	120
214	Global environmental data for mapping infectious disease distribution. <i>Advances in Parasitology</i> , 2006 , 62, 37-77	3.2	120
213	Assessing the impact of coordinated COVID-19 exit strategies across Europe. <i>Science</i> , 2020 , 369, 1465-1470	3.9	117
212	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
211	Changing Epidemiology of Human Brucellosis, China, 1955-2014. <i>Emerging Infectious Diseases</i> , 2017 , 23, 184-194	10.2	113
210	The use of mobile phone data for the estimation of the travel patterns and imported <i>Plasmodium falciparum</i> rates among Zanzibar residents. <i>Malaria Journal</i> , 2009 , 8, 287	3.6	112
209	Ranking of elimination feasibility between malaria-endemic countries. <i>Lancet</i> , 2010 , 376, 1579-91	4.0	111
208	Risk of Coronavirus Disease 2019 Transmission in Train Passengers: an Epidemiological and Modeling Study. <i>Clinical Infectious Diseases</i> , 2021 , 72, 604-610	11.6	109
207	Commentary: containing the ebola outbreak - the potential and challenge of mobile network data. <i>PLOS Currents</i> , 2014 , 6,		108
206	Modelling spatial patterns of urban growth in Africa. <i>Applied Geography</i> , 2013 , 44, 23-32	4.4	107

205	A new urban landscape in EastSoutheast Asia, 2000-2010. <i>Environmental Research Letters</i> , 2015 , 10, 034002	6.2	105
204	Housing Improvements and Malaria Risk in Sub-Saharan Africa: A Multi-Country Analysis of Survey Data. <i>PLoS Medicine</i> , 2017 , 14, e1002234	11.6	105
203	The geography of imported malaria to non-endemic countries: a meta-analysis of nationally reported statistics. <i>Lancet Infectious Diseases</i> , 2017 , 17, 98-107	25.5	105
202	Travel risk, malaria importation and malaria transmission in Zanzibar. <i>Scientific Reports</i> , 2011 , 1, 93	4.9	104
201	Model-based projections of Zika virus infections in childbearing women in the Americas. <i>Nature Microbiology</i> , 2016 , 1, 16126	26.6	103
200	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
199	High-resolution gridded population datasets for Latin America and the Caribbean in 2010, 2015, and 2020. <i>Scientific Data</i> , 2015 , 2, 150045	8.2	103
198	Phylodynamics and human-mediated dispersal of a zoonotic virus. <i>PLoS Pathogens</i> , 2010 , 6, e1001166	7.6	102
197	Assembling a global database of malaria parasite prevalence for the Malaria Atlas Project. <i>Malaria Journal</i> , 2007 , 6, 17	3.6	102
196	The spatial allocation of population: a review of large-scale gridded population data products and their fitness for use. <i>Earth System Science Data</i> , 2019 , 11, 1385-1409	10.5	97
195	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
194	Human movement data for malaria control and elimination strategic planning. <i>Malaria Journal</i> , 2012 , 11, 205	3.6	96
193	Global migration and the changing distribution of sickle haemoglobin: a quantitative study of temporal trends between 1960 and 2000. <i>The Lancet Global Health</i> , 2014 , 2, e80-9	13.6	94
192	Unveiling hidden migration and mobility patterns in climate stressed regions: A longitudinal study of six million anonymous mobile phone users in Bangladesh. <i>Global Environmental Change</i> , 2016 , 38, 1-7	10.1	93
191	Using remotely sensed night-time light as a proxy for poverty in Africa. <i>Population Health Metrics</i> , 2008 , 6, 5	3	88
190	Identifying Malaria Transmission Foci for Elimination Using Human Mobility Data. <i>PLoS Computational Biology</i> , 2016 , 12, e1004846	5	86
189	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> , 2015 , 112, 11114-9	11.5	85
188	Air travel and vector-borne disease movement. <i>Parasitology</i> , 2012 , 139, 1816-30	2.7	83

187	Prediction of bluetongue vector distribution in Europe and north Africa using satellite imagery. <i>Veterinary Microbiology</i> , 2003 , 97, 13-29	3.3	83
186	Urbanization and the global malaria recession. <i>Malaria Journal</i> , 2013 , 12, 133	3.6	81
185	Virus evolution and transmission in an ever more connected world. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015 , 282, 20142878	4.4	81
184	The worldwide airline network and the dispersal of exotic species: 2007-2010. <i>Ecography</i> , 2009 , 32, 94-102	3.5	77
183	Assessing spread risk of Wuhan novel coronavirus within and beyond China, January-April 2020: a travel network-based modelling study 2020 ,		77
182	Modelling malaria risk in East Africa at high-spatial resolution. <i>Tropical Medicine and International Health</i> , 2005 , 10, 557-66	2.3	76
181	Spatiotemporal patterns of population in mainland China, 1990 to 2010. <i>Scientific Data</i> , 2016 , 3, 160005	8.2	75
180	Population mobility reductions associated with travel restrictions during the Ebola epidemic in Sierra Leone: use of mobile phone data. <i>International Journal of Epidemiology</i> , 2018 , 47, 1562-1570	7.8	73
179	Modelling the distributions of Culicoides bluetongue virus vectors in Sicily in relation to satellite-derived climate variables. <i>Medical and Veterinary Entomology</i> , 2004 , 18, 90-101	2.4	72
178	Improving Large Area Population Mapping Using Geotweet Densities. <i>Transactions in GIS</i> , 2017 , 21, 317-331	3.1	71
177	Plasmodium vivax Transmission in Africa. <i>PLoS Neglected Tropical Diseases</i> , 2015 , 9, e0004222	4.8	71
176	Climatic similarity and biological exchange in the worldwide airline transportation network. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007 , 274, 1489-96	4.4	71
175	Rapid and Near Real-Time Assessments of Population Displacement Using Mobile Phone Data Following Disasters: The 2015 Nepal Earthquake. <i>PLoS Currents</i> , 2016 , 8,		69
174	Mapping populations at risk: improving spatial demographic data for infectious disease modeling and metric derivation. <i>Population Health Metrics</i> , 2012 , 10, 8	3	68
173	Increasing the spatial resolution of agricultural land cover maps using a Hopfield neural network. <i>International Journal of Geographical Information Science</i> , 2003 , 17, 647-672	4.1	68
172	Assessing the use of global land cover data for guiding large area population distribution modelling. <i>Geo Journal</i> , 2011 , 76, 525-538	2.2	66
171	Mapping population and pathogen movements. <i>International Health</i> , 2014 , 6, 5-11	2.4	65
170	Large-scale spatial population databases in infectious disease research. <i>International Journal of Health Geographics</i> , 2012 , 11, 7	3.5	65

169	Identifying climate drivers of infectious disease dynamics: recent advances and challenges ahead. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017 , 284,	4.4	64
168	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
167	Terra and Aqua: new data for epidemiology and public health. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2004 , 6, 33-46	7.3	60
166	Global spatio-temporally harmonised datasets for producing high-resolution gridded population distribution datasets. <i>Big Earth Data</i> , 2019 , 3, 108-139	4.1	58
165	Mapping for maternal and newborn health: the distributions of women of childbearing age, pregnancies and births. <i>International Journal of Health Geographics</i> , 2014 , 13, 2	3.5	57
164	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
163	Using Google Location History data to quantify fine-scale human mobility. <i>International Journal of Health Geographics</i> , 2018 , 17, 28	3.5	55
162	Rapid case-based mapping of seasonal malaria transmission risk for strategic elimination planning in Swaziland. <i>Malaria Journal</i> , 2013 , 12, 61	3.6	54
161	Athletics: momentous sprint at the 2156 Olympics?. <i>Nature</i> , 2004 , 431, 525	50.4	54
160	Multinational patterns of seasonal asymmetry in human movement influence infectious disease dynamics. <i>Nature Communications</i> , 2017 , 8, 2069	17.4	53
159	The use of census migration data to approximate human movement patterns across temporal scales. <i>PLoS ONE</i> , 2013 , 8, e52971	3.7	53
158	The effects of spatial population dataset choice on estimates of population at risk of disease. <i>Population Health Metrics</i> , 2011 , 9, 4	3	53
157	Human population, urban settlement patterns and their impact on Plasmodium falciparum malaria endemicity. <i>Malaria Journal</i> , 2008 , 7, 218	3.6	53
156	Evaluating Spatial Interaction Models for Regional Mobility in Sub-Saharan Africa. <i>PLoS Computational Biology</i> , 2015 , 11, e1004267	5	52
155	Infectious disease in an era of global change. <i>Nature Reviews Microbiology</i> , 2021 ,	22.2	52
154	Integrated vaccination and physical distancing interventions to prevent future COVID-19 waves in Chinese cities. <i>Nature Human Behaviour</i> , 2021 , 5, 695-705	12.8	52
153	Local, national, and regional viral haemorrhagic fever pandemic potential in Africa: a multistage analysis. <i>Lancet, The</i> , 2017 , 390, 2662-2672	40	51
152	A high resolution spatial population database of Somalia for disease risk mapping. <i>International Journal of Health Geographics</i> , 2010 , 9, 45	3.5	50

151	Estimating drivers of autochthonous transmission of chikungunya virus in its invasion of the Americas. <i>PLOS Currents</i> , 2015 , 7,		50
150	Geospatial mapping of access to timely essential surgery in sub-Saharan Africa. <i>BMJ Global Health</i> , 2018 , 3, e000875	6.6	49
149	Measuring urbanization pattern and extent for malaria research: a review of remote sensing approaches. <i>Journal of Urban Health</i> , 2004 , 81, 363-76	5.8	49
148	Estimating the malaria risk of African mosquito movement by air travel. <i>Malaria Journal</i> , 2006 , 5, 57	3.6	48
147	Assessing the accuracy of satellite derived global and national urban maps in Kenya. <i>Remote Sensing of Environment</i> , 2005 , 96, 87-97	13.2	48
146	Fine resolution mapping of population age-structures for health and development applications. <i>Journal of the Royal Society Interface</i> , 2015 , 12,	4.1	47
145	Census-independent population mapping in northern Nigeria. <i>Remote Sensing of Environment</i> , 2018 , 204, 786-798	13.2	47
144	Web-based GIS: the vector-borne disease airline importation risk (VBD-AIR) tool. <i>International Journal of Health Geographics</i> , 2012 , 11, 33	3.5	47
143	Global assessment of seasonal potential distribution of Mediterranean fruit fly, <i>Ceratitis capitata</i> (Diptera: Tephritidae). <i>PLoS ONE</i> , 2014 , 9, e111582	3.7	46
142	The demographics of human and malaria movement and migration patterns in East Africa. <i>Malaria Journal</i> , 2013 , 12, 397	3.6	45
141	Defining approaches to settlement mapping for public health management in Kenya using medium spatial resolution satellite imagery. <i>Remote Sensing of Environment</i> , 2004 , 93, 42-52	13.2	44
140	Measuring mobility, disease connectivity and individual risk: a review of using mobile phone data and mHealth for travel medicine. <i>Journal of Travel Medicine</i> , 2019 , 26,	12.9	43
139	The geography of measles vaccination in the African Great Lakes region. <i>Nature Communications</i> , 2017 , 8, 15585	17.4	43
138	Variation in SARS-CoV-2 outbreaks across sub-Saharan Africa. <i>Nature Medicine</i> , 2021 , 27, 447-453	50.5	43
137	The geography of maternal and newborn health: the state of the art. <i>International Journal of Health Geographics</i> , 2015 , 14, 19	3.5	42
136	High resolution age-structured mapping of childhood vaccination coverage in low and middle income countries. <i>Vaccine</i> , 2018 , 36, 1583-1591	4.1	41
135	Global malaria connectivity through air travel. <i>Malaria Journal</i> , 2013 , 12, 269	3.6	41
134	Mapping vaccination coverage to explore the effects of delivery mechanisms and inform vaccination strategies. <i>Nature Communications</i> , 2019 , 10, 1633	17.4	40

133	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
132	Mapping internal connectivity through human migration in malaria endemic countries. <i>Scientific Data</i> , 2016 , 3, 160066	8.2	40
131	Examining the correlates and drivers of human population distributions across low- and middle-income countries. <i>Journal of the Royal Society Interface</i> , 2017 , 14,	4.1	39
130	Mapping malaria risk in Bangladesh using Bayesian geostatistical models. <i>American Journal of Tropical Medicine and Hygiene</i> , 2010 , 83, 861-7	3.2	39
129	Spatial accessibility and the spread of HIV-1 subtypes and recombinants. <i>Aids</i> , 2012 , 26, 2351-60	3.5	39
128	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
127	Untangling introductions and persistence in COVID-19 resurgence in Europe. <i>Nature</i> , 2021 , 595, 713-717	50.4	37
126	Exploring the high-resolution mapping of gender-disaggregated development indicators. <i>Journal of the Royal Society Interface</i> , 2017 , 14,	4.1	36
125	Modeling monthly flows of global air travel passengers: An open-access data resource. <i>Journal of Transport Geography</i> , 2015 , 48, 52-60	5.2	35
124	Millennium development health metrics: where do Africa's children and women of childbearing age live?. <i>Population Health Metrics</i> , 2013 , 11, 11	3	35
123	Mapping the denominator: spatial demography in the measurement of progress. <i>International Health</i> , 2014 , 6, 153-5	2.4	35
122	Equality in Maternal and Newborn Health: Modelling Geographic Disparities in Utilisation of Care in Five East African Countries. <i>PLoS ONE</i> , 2016 , 11, e0162006	3.7	35
121	Changing epidemiology and challenges of malaria in China towards elimination. <i>Malaria Journal</i> , 2019 , 18, 107	3.6	34
120	Digital surveillance for enhanced detection and response to outbreaks. <i>Lancet Infectious Diseases</i> , 2014 , 14, 1035-1037	25.5	33
119	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
118	Assessing the spatial sensitivity of a random forest model: Application in gridded population modeling. <i>Computers, Environment and Urban Systems</i> , 2019 , 75, 132-145	5.9	31
117	The effects of urbanization on global Plasmodium vivax malaria transmission. <i>Malaria Journal</i> , 2012 , 11, 403	3.6	31
116	Population mapping of poor countries. <i>Nature</i> , 2011 , 474, 36	50.4	31

115	Gridded Population Maps Informed by Different Built Settlement Products. <i>Data</i> , 2018 , 3, 33	2.3	30
114	Sub-national mapping of population pyramids and dependency ratios in Africa and Asia. <i>Scientific Data</i> , 2017 , 4, 170089	8.2	27
113	Global funding trends for malaria research in sub-Saharan Africa: a systematic analysis. <i>The Lancet Global Health</i> , 2017 , 5, e772-e781	13.6	27
112	Advances in mapping malaria for elimination: fine resolution modelling of Plasmodium falciparum incidence. <i>Scientific Reports</i> , 2016 , 6, 29628	4.9	27
111	Measurement of Social Networks for Innovation within Community Disaster Resilience. <i>Sustainability</i> , 2019 , 11, 1943	3.6	26
110	Remotely measuring populations during a crisis by overlaying two data sources. <i>International Health</i> , 2015 , 7, 90-8	2.4	26
109	Mosquitoes on a plane: Disinsection will not stop the spread of vector-borne pathogens, a simulation study. <i>PLoS Neglected Tropical Diseases</i> , 2017 , 11, e0005683	4.8	26
108	GridSample: an R package to generate household survey primary sampling units (PSUs) from gridded population data. <i>International Journal of Health Geographics</i> , 2017 , 16, 25	3.5	26
107	Exploring the use of mobile phone data for national migration statistics. <i>Palgrave Communications</i> , 2019 , 5,	5.3	26
106	Dynamic denominators: the impact of seasonally varying population numbers on disease incidence estimates. <i>Population Health Metrics</i> , 2016 , 14, 35	3	25
105	Strengthening surveillance systems for malaria elimination: a global landscaping of system performance, 2015-2017. <i>Malaria Journal</i> , 2019 , 18, 315	3.6	24
104	Adult vector control, mosquito ecology and malaria transmission. <i>International Health</i> , 2015 , 7, 121-9	2.4	24
103	Travel patterns and demographic characteristics of malaria cases in Swaziland, 2010-2014. <i>Malaria Journal</i> , 2017 , 16, 359	3.6	24
102	Identifying residential neighbourhood types from settlement points in a machine learning approach. <i>Computers, Environment and Urban Systems</i> , 2018 , 69, 104-113	5.9	24
101	Plasmodium falciparum malaria importation from Africa to China and its mortality: an analysis of driving factors. <i>Scientific Reports</i> , 2016 , 6, 39524	4.9	24
100	Measuring populations to improve vaccination coverage. <i>Scientific Reports</i> , 2016 , 5, 34541	4.9	22
99	National and sub-national variation in patterns of febrile case management in sub-Saharan Africa. <i>Nature Communications</i> , 2018 , 9, 4994	17.4	22
98	Seasonal and interannual risks of dengue introduction from South-East Asia into China, 2005-2015. <i>PLoS Neglected Tropical Diseases</i> , 2018 , 12, e0006743	4.8	22

97	Inter-annual variation in seasonal dengue epidemics driven by multiple interacting factors in Guangzhou, China. <i>Nature Communications</i> , 2019 , 10, 1148	17.4	21
96	Census-derived migration data as a tool for informing malaria elimination policy. <i>Malaria Journal</i> , 2016 , 15, 273	3.6	21
95	Malaria in China, 2011-2015: an observational study. <i>Bulletin of the World Health Organization</i> , 2017 , 95, 564-573	8.2	20
94	People and Pixels 20 years later: the current data landscape and research trends blending population and environmental data. <i>Population and Environment</i> , 2019 , 41, 209-234	4	20
93	Poverty, health and satellite-derived vegetation indices: their inter-spatial relationship in West Africa. <i>International Health</i> , 2015 , 7, 99-106	2.4	18
92	Mapping the environmental and socioeconomic coverage of the INDEPTH international health and demographic surveillance system network. <i>Health and Place</i> , 2015 , 36, 88-96	4.6	18
91	Exploring the spatiotemporal drivers of malaria elimination in Europe. <i>Malaria Journal</i> , 2016 , 15, 122	3.6	18
90	New Perspectives for Mapping Global Population Distribution Using World Settlement Footprint Products. <i>Sustainability</i> , 2019 , 11, 6056	3.6	18
89	Classifying settlement types from multi-scale spatial patterns of building footprints. <i>Environment and Planning B: Urban Analytics and City Science</i> , 2021 , 48, 1161-1179	2	18
88	Mapping road network communities for guiding disease surveillance and control strategies. <i>Scientific Reports</i> , 2018 , 8, 4744	4.9	17
87	A spatial regression model for the disaggregation of areal unit based data to high-resolution grids with application to vaccination coverage mapping. <i>Statistical Methods in Medical Research</i> , 2019 , 28, 3226-3241 ¹⁷	2.3	17
86	Mapping adolescent first births within three east African countries using data from Demographic and Health Surveys: exploring geospatial methods to inform policy. <i>Reproductive Health</i> , 2016 , 13, 98	3.5	16
85	Spatial distribution of emergency obstetric and newborn care services in Ghana: Using the evidence to plan interventions. <i>International Journal of Gynecology and Obstetrics</i> , 2016 , 132, 130-4	4	16
84	Modelling changing population distributions: an example of the Kenyan Coast, 1979-2009. <i>International Journal of Digital Earth</i> , 2017 , 10, 1017-1029	3.9	16
83	Seasonal Population Movements and the Surveillance and Control of Infectious Diseases. <i>Trends in Parasitology</i> , 2017 , 33, 10-20	6.4	16
82	Associations between urbanicity and malaria at local scales in Uganda. <i>Malaria Journal</i> , 2015 , 14, 374	3.6	16
81	Mapping the environmental coverage of the INDEPTH demographic surveillance system network in rural Africa. <i>Tropical Medicine and International Health</i> , 2006 , 11, 1318-26	2.3	16
80	The duration of travel impacts the spatial dynamics of infectious diseases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 22572-22579	11.5	16

79	Using models to shape measles control and elimination strategies in low- and middle-income countries: A review of recent applications. <i>Vaccine</i> , 2020 , 38, 979-992	4.1	15
78	National population mapping from sparse survey data: A hierarchical Bayesian modeling framework to account for uncertainty. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 24173-24179	11.5	15
77	Temporal trends in spatial inequalities of maternal and newborn health services among four east African countries, 1999-2015. <i>BMC Public Health</i> , 2018 , 18, 1339	4.1	15
76	Geospatial variation in measles vaccine coverage through routine and campaign strategies in Nigeria: Analysis of recent household surveys. <i>Vaccine</i> , 2020 , 38, 3062-3071	4.1	14
75	Spatiotemporal incidence of Zika and associated environmental drivers for the 2015-2016 epidemic in Colombia. <i>Scientific Data</i> , 2018 , 5, 180073	8.2	14
74	Measles outbreak risk in Pakistan: exploring the potential of combining vaccination coverage and incidence data with novel data-streams to strengthen control. <i>Epidemiology and Infection</i> , 2018 , 146, 1575-1583	4.3	14
73	Uncovering two phases of early intercontinental COVID-19 transmission dynamics. <i>Journal of Travel Medicine</i> , 2020 , 27,	12.9	14
72	The influence of distance and quality on utilisation of birthing services at health facilities in Eastern Region, Ghana. <i>BMJ Global Health</i> , 2019 , 4, e002020	6.6	14
71	Spatio-temporal analysis of malaria vector density from baseline through intervention in a high transmission setting. <i>Parasites and Vectors</i> , 2016 , 9, 637	4	14
70	Vaccination strategies for measles control and elimination: time to strengthen local initiatives. <i>BMC Medicine</i> , 2021 , 19, 2	11.4	14
69	Productive disruption: opportunities and challenges for innovation in infectious disease surveillance. <i>BMJ Global Health</i> , 2018 , 3, e000538	6.6	13
68	Demographics, epidemiology and the impact of vaccination campaigns in a measles-free world - Can elimination be maintained?. <i>Vaccine</i> , 2017 , 35, 1488-1493	4.1	12
67	Development and Evaluation of an Attractive Self-Marking Ovitrap to Measure Dispersal and Determine Skip Oviposition in <i>Aedes albopictus</i> (Diptera: Culicidae) Field Populations. <i>Journal of Medical Entomology</i> , 2016 , 53, 31-8	2.2	12
66	Estimating access to health care in Yemen, a complex humanitarian emergency setting: a descriptive applied geospatial analysis. <i>The Lancet Global Health</i> , 2020 , 8, e1435-e1443	13.6	11
65	Introduction of rubella-containing-vaccine to Madagascar: implications for roll-out and local elimination. <i>Journal of the Royal Society Interface</i> , 2016 , 13,	4.1	11
64	Analysis of Seasonal Risk for Importation of the Mediterranean Fruit Fly, <i>Ceratitis capitata</i> (Diptera: Tephritidae), via Air Passenger Traffic Arriving in Florida and California. <i>Journal of Economic Entomology</i> , 2016 , 109, 2317-2328	2.2	11
63	Comparisons of two global built area land cover datasets in methods to disaggregate human population in eleven countries from the global South. <i>International Journal of Digital Earth</i> , 2020 , 13, 78-100	3.9	11
62	Investigating Barriers to Tuberculosis Evaluation in Uganda Using Geographic Information Systems. <i>American Journal of Tropical Medicine and Hygiene</i> , 2015 , 93, 733-8	3.2	10

61	Treatment-seeking behaviour in low- and middle-income countries estimated using a Bayesian model. <i>BMC Medical Research Methodology</i> , 2017 , 17, 67	4.7	10
60	Annually modelling built-settlements between remotely-sensed observations using relative changes in subnational populations and lights at night. <i>Computers, Environment and Urban Systems</i> , 2020 , 80, 101444	5.9	10
59	Gridded birth and pregnancy datasets for Africa, Latin America and the Caribbean. <i>Scientific Data</i> , 2018 , 5, 180090	8.2	10
58	Measuring the availability and geographical accessibility of maternal health services across sub-Saharan Africa. <i>BMC Medicine</i> , 2020 , 18, 237	11.4	9
57	High-Resolution Gridded Population Datasets: Exploring the Capabilities of the World Settlement Footprint 2019 Imperviousness Layer for the African Continent. <i>Remote Sensing</i> , 2021 , 13, 1142	5	9
56	Tools for mapping multi-scale settlement patterns of building footprints: An introduction to the R package foot. <i>PLoS ONE</i> , 2021 , 16, e0247535	3.7	9
55	Using GIS and Machine Learning to Classify Residential Status of Urban Buildings in Low and Middle Income Settings. <i>Remote Sensing</i> , 2020 , 12, 3847	5	8
54	Scene selection and the use of NASA's global orthorectified Landsat dataset for land cover and land use change monitoring. <i>International Journal of Remote Sensing</i> , 2007 , 27, 3073-3078	3.1	8
53	Malaria prevalence metrics in low- and middle-income countries: an assessment of precision in nationally-representative surveys. <i>Malaria Journal</i> , 2017 , 16, 475	3.6	7
52	A geostatistical analysis of the association between armed conflicts and Plasmodium falciparum malaria in Africa, 1997-2010. <i>Malaria Journal</i> , 2015 , 14, 500	3.6	7
51	Fluctuations in anthropogenic nighttime lights from satellite imagery for five cities in Niger and Nigeria. <i>Scientific Data</i> , 2018 , 5, 180256	8.2	7
50	Assessing the effect of global travel and contact reductions to mitigate the COVID-19 pandemic and resurgence		7
49	Gridded population survey sampling: a systematic scoping review of the field and strategic research agenda. <i>International Journal of Health Geographics</i> , 2020 , 19, 34	3.5	7
48	Assessing the Effect of Global Travel and Contact Restrictions on Mitigating the COVID-19 Pandemic. <i>Engineering</i> , 2021 , 7, 914-923	9.7	7
47	Domestic and international mobility trends in the United Kingdom during the COVID-19 pandemic: an analysis of facebook data. <i>International Journal of Health Geographics</i> , 2021 , 20, 46	3.5	6
46	Using geospatial modelling to estimate the prevalence of adolescent first births in Nepal. <i>BMJ Global Health</i> , 2019 , 4, e000763	6.6	6
45	SARS-CoV-2 European resurgence foretold: interplay of introductions and persistence by leveraging genomic and mobility data 2021 ,		6
44	Innovation to impact in spatial epidemiology. <i>BMC Medicine</i> , 2018 , 16, 209	11.4	6

43	Mobility in China, 2020: a tale of four phases. <i>National Science Review</i> , 2021 , 8, nwab148	10.8	6
42	Global climate matching: Satellite imagery as a tool for mapping vineyard suitability. <i>Journal of Wine Research</i> , 2005 , 16, 19-32	1	5
41	Pokhron Go and Exposure to Mosquito-Borne Diseases: How Not to Catch Them All. <i>PLOS Currents</i> , 2016 , 8,		5
40	Impacts of worldwide individual non-pharmaceutical interventions on COVID-19 transmission across waves and space.. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2022 , 106, 102649	7.3	5
39	Transmission risk of SARS-CoV-2 on airplanes and high-speed trains		5
38	Using gridded population and quadtree sampling units to support survey sample design in low-income settings. <i>International Journal of Health Geographics</i> , 2020 , 19, 10	3.5	5
37	High-resolution population estimation using household survey data and building footprints.. <i>Nature Communications</i> , 2022 , 13, 1330	17.4	5
36	Geographic coverage of demographic surveillance systems for characterising the drivers of childhood mortality in sub-Saharan Africa. <i>BMJ Global Health</i> , 2018 , 3, e000611	6.6	4
35	Geographical distribution of fertility rates in 70 low-income, lower-middle-income, and upper-middle-income countries, 2010-16: a subnational analysis of cross-sectional surveys. <i>The Lancet Global Health</i> , 2021 , 9, e802-e812	13.6	4
34	The Role of Earth Observation in Achieving Sustainable Agricultural Production in Arid and Semi-Arid Regions of the World. <i>Remote Sensing</i> , 2021 , 13, 3382	5	4
33	Assessing the characteristics of un- and under-vaccinated children in low- and middle-income countries: A multi-level cross-sectional study. <i>PLOS Global Public Health</i> , 2022 , 2, e0000244		4
32	Exploring fine-scale human and livestock movement in western Kenya. <i>One Health</i> , 2019 , 7, 100081	7.6	3
31	Global holiday datasets for understanding seasonal human mobility and population dynamics.. <i>Scientific Data</i> , 2022 , 9, 17	8.2	3
30	High variation expected in the pace and burden of SARS-CoV-2 outbreaks across sub-Saharan Africa 2020 ,		3
29	Effects of worldwide interventions and vaccination on COVID-19 between waves and countries		3
28	Characterizing human mobility patterns in rural settings of sub-Saharan Africa. <i>ELife</i> , 2021 , 10,	8.9	3
27	Risk of SARS-CoV-2 Transmission among Air Passengers in China. <i>Clinical Infectious Diseases</i> , 2021 ,	11.6	3
26	Predicting Near-Future Built-Settlement Expansion Using Relative Changes in Small Area Populations. <i>Remote Sensing</i> , 2020 , 12, 1545	5	2

25	Spatial inequalities in skilled attendance at birth in Ghana: a multilevel analysis integrating health facility databases with household survey data. <i>Tropical Medicine and International Health</i> , 2020 , 25, 1044-1054	2.3	2
24	Super-resolution Land Cover Mapping from Remotely Sensed Imagery using a Hopfield Neural Network 2006 , 77-98		2
23	A grid-based sample design framework for household surveys. <i>Gates Open Research</i> , 2020 , 4, 13	2.4	2
22	Estimating uncertainty in geospatial modelling at multiple spatial resolutions: the pattern of delivery via caesarean section in Tanzania. <i>BMJ Global Health</i> , 2019 , 4, e002092	6.6	2
21	Best practices in availability, management and use of geospatial data to guide reproductive, maternal, child and adolescent health programmes. <i>BMJ Global Health</i> , 2019 , 4, e001406	6.6	2
20	District-level estimation of vaccination coverage: Discrete vs continuous spatial models. <i>Statistics in Medicine</i> , 2021 , 40, 2197-2211	2.3	2
19	Mapping out-of-school adolescents and youths in low- and middle-income countries. <i>Humanities and Social Sciences Communications</i> , 2021 , 8,	2.8	2
18	Underestimate of annual malaria imports to Canada - Author reply. <i>Lancet Infectious Diseases</i> , 2017 , 17, 142-143	25.5	1
17	Geospatial estimation of reproductive, maternal, newborn and child health indicators: a systematic review of methodological aspects of studies based on household surveys. <i>International Journal of Health Geographics</i> , 2020 , 19, 41	3.5	1
16	Modeling human migration across spatial scales in Colombia. <i>PLoS ONE</i> , 2020 , 15, e0232702	3.7	1
15	Towards an Improved Large-Scale Gridded Population Dataset: A Pan-European Study on the Integration of 3D Settlement Data into Population Modelling. <i>Remote Sensing</i> , 2022 , 14, 325	5	1
14	Mobility and phone call behavior explain patterns in poverty at high-resolution across multiple settings. <i>Humanities and Social Sciences Communications</i> , 2021 , 8,	2.8	1
13	Key opportunities and challenges for the use of big data in migration research and policy. <i>UCL Open Environment</i> , 2021 , 3,	1.9	1
12	Inter-annual variation in seasonal dengue epidemics driven by multiple interacting factors in Guangzhou, China		1
11	Practical geospatial and sociodemographic predictors of human mobility. <i>Scientific Reports</i> , 2021 , 11, 15389	4.9	1
10	Generating Spatial Demographic Data for Health in Africa. <i>Global Perspectives on Health Geography</i> , 2021 , 9-27	0.3	1
9	Measuring the contribution of built-settlement data to global population mapping. <i>Social Sciences & Humanities Open</i> , 2021 , 3, 100102	1.9	1
8	Domestic and international mobility trends in the United Kingdom during the COVID-19 pandemic: An analysis of Facebook data		1

7	Trip duration drives shift in travel network structure with implications for the predictability of spatial disease spread. <i>PLoS Computational Biology</i> , 2021 , 17, e1009127	5	1
6	A review of geospatial methods for population estimation and their use in constructing reproductive, maternal, newborn, child and adolescent health service indicators. <i>BMC Health Services Research</i> , 2021 , 21, 370	2.9	1
5	Characterising the Land Surface Phenology of Middle Eastern Countries Using Moderate Resolution Landsat Data. <i>Remote Sensing</i> , 2022 , 14, 2136	5	1
4	Multilevel analysis of predictors of multiple indicators of childhood vaccination in Nigeria. <i>PLoS ONE</i> , 2022 , 17, e0269066	3.7	1
3	Understanding factors associated with attending secondary school in Tanzania using household survey data.. <i>PLoS ONE</i> , 2022 , 17, e0263734	3.7	0
2	Clinical News. <i>British Journal of Hospital Medicine (London, England: 2005)</i> , 2017 , 78, 8-11	0.8	
1	How accurate are modelled birth and pregnancy estimates? Comparison of four models using high resolution maternal health census data in southern Mozambique. <i>BMJ Global Health</i> , 2019 , 4, e000894	6.6	