

Moritz Kraemer

List of Publications by Citations

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122
papers

14,553
citations

51
h-index

120
g-index

135
ext. papers

20,567
ext. citations

17.6
avg, IF

6.75
L-index

#	Paper	IF	Citations
122	The effect of human mobility and control measures on the COVID-19 epidemic in China. <i>Science</i> , 2020 , 368, 493-497	33.3	1373
121	An investigation of transmission control measures during the first 50 days of the COVID-19 epidemic in China. <i>Science</i> , 2020 , 368, 638-642	33.3	1025
120	The global distribution of the arbovirus vectors <i>Aedes aegypti</i> and <i>Ae. albopictus</i> . <i>ELife</i> , 2015 , 4, e083478.9	9.9	995
119	Zika virus in the Americas: Early epidemiological and genetic findings. <i>Science</i> , 2016 , 352, 345-349	33.3	703
118	Preparedness and vulnerability of African countries against importations of COVID-19: a modelling study. <i>Lancet, The</i> , 2020 , 395, 871-877	4.0	640
117	Genomics and epidemiology of the P.1 SARS-CoV-2 lineage in Manaus, Brazil. <i>Science</i> , 2021 , 372, 815-821	33.3	603
116	Evaluating the Effects of SARS-CoV-2 Spike Mutation D614G on Transmissibility and Pathogenicity. <i>Cell</i> , 2021 , 184, 64-75.e11	56.2	518
115	Resurgence of COVID-19 in Manaus, Brazil, despite high seroprevalence. <i>Lancet, The</i> , 2021 , 397, 452-455	4.0	481
114	Pneumonia of unknown aetiology in Wuhan, China: potential for international spread via commercial air travel. <i>Journal of Travel Medicine</i> , 2020 , 27,	12.9	408
113	Establishment and cryptic transmission of Zika virus in Brazil and the Americas. <i>Nature</i> , 2017 , 546, 406-410	50.4	366
112	Anticipating the international spread of Zika virus from Brazil. <i>Lancet, The</i> , 2016 , 387, 335-336	4.0	327
111	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
110	The current and future global distribution and population at risk of dengue. <i>Nature Microbiology</i> , 2019 , 4, 1508-1515	26.6	275
109	Emergence and potential for spread of Chikungunya virus in Brazil. <i>BMC Medicine</i> , 2015 , 13, 102	11.4	266
108	Three-quarters attack rate of SARS-CoV-2 in the Brazilian Amazon during a largely unmitigated epidemic. <i>Science</i> , 2021 , 371, 288-292	33.3	265
107	Genomic epidemiology reveals multiple introductions of Zika virus into the United States. <i>Nature</i> , 2017 , 546, 401-405	50.4	235
106	Mapping the zoonotic niche of Ebola virus disease in Africa. <i>ELife</i> , 2014 , 3, e04395	8.9	234

105	Mapping global environmental suitability for Zika virus. <i>ELife</i> , 2016 , 5,	8.9	231
104	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
103	Rapid epidemic expansion of the SARS-CoV-2 Omicron variant in southern Africa.. <i>Nature</i> , 2022 ,	50.4	205
102	Potential for global spread of a novel coronavirus from China. <i>Journal of Travel Medicine</i> , 2020 , 27,	12.9	200
101	The global compendium of <i>Aedes aegypti</i> and <i>Ae. albopictus</i> occurrence. <i>Scientific Data</i> , 2015 , 2, 1500358.2		195
100	Epidemiological data from the COVID-19 outbreak, real-time case information. <i>Scientific Data</i> , 2020 , 7, 106	8.2	194
99	Hospital admission and emergency care attendance risk for SARS-CoV-2 delta (B.1.617.2) compared with alpha (B.1.1.7) variants of concern: a cohort study. <i>Lancet Infectious Diseases, The</i> , 2021 ,	25.5	188
98	Genomic and epidemiological monitoring of yellow fever virus transmission potential. <i>Science</i> , 2018 , 361, 894-899	33.3	184
97	Aggregated mobility data could help fight COVID-19. <i>Science</i> , 2020 , 368, 145-146	33.3	183
96	Genomic Epidemiology of SARS-CoV-2 in Guangdong Province, China. <i>Cell</i> , 2020 , 181, 997-1003.e9	56.2	175
95	Global risk mapping for major diseases transmitted by <i>Aedes aegypti</i> and <i>Aedes albopictus</i> . <i>International Journal of Infectious Diseases</i> , 2018 , 67, 25-35	10.5	173
94	Establishment and lineage dynamics of the SARS-CoV-2 epidemic in the UK. <i>Science</i> , 2021 , 371, 708-712	33.3	159
93	Open access epidemiological data from the COVID-19 outbreak. <i>Lancet Infectious Diseases, The</i> , 2020 , 20, 534	25.5	157
92	Epidemiological and clinical characteristics of the COVID-19 epidemic in Brazil. <i>Nature Human Behaviour</i> , 2020 , 4, 856-865	12.8	151
91	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
90	Potential for Zika virus introduction and transmission in resource-limited countries in Africa and the Asia-Pacific region: a modelling study. <i>Lancet Infectious Diseases, The</i> , 2016 , 16, 1237-1245	25.5	132
89	Model-based projections of Zika virus infections in childbearing women in the Americas. <i>Nature Microbiology</i> , 2016 , 1, 16126	26.6	103
88	The many projected futures of dengue. <i>Nature Reviews Microbiology</i> , 2015 , 13, 230-9	22.2	102

87	Crowding and the shape of COVID-19 epidemics. <i>Nature Medicine</i> , 2020 , 26, 1829-1834	50.5	97
86	Mask-wearing and control of SARS-CoV-2 transmission in the USA: a cross-sectional study. <i>The Lancet Digital Health</i> , 2021 , 3, e148-e157	14.4	95
85	Modelling COVID-19. <i>Nature Reviews Physics</i> , 2020 , 1-3	23.6	91
84	Global yellow fever vaccination coverage from 1970 to 2016: an adjusted retrospective analysis. <i>Lancet Infectious Diseases</i> , 2017 , 17, 1209-1217	25.5	91
83	Mapping 123 million neonatal, infant and child deaths between 2000 and 2017. <i>Nature</i> , 2019 , 574, 353-358	58.4	87
82	Routes for COVID-19 importation in Brazil. <i>Journal of Travel Medicine</i> , 2020 , 27,	12.9	79
81	Geographic access to United States SARS-CoV-2 testing sites highlights healthcare disparities and may bias transmission estimates. <i>Journal of Travel Medicine</i> , 2020 , 27,	12.9	76
80	Existing and potential infection risk zones of yellow fever worldwide: a modelling analysis. <i>The Lancet Global Health</i> , 2018 , 6, e270-e278	13.6	74
79	Assessing Seasonal Risks for the Introduction and Mosquito-borne Spread of Zika Virus in Europe. <i>EBioMedicine</i> , 2016 , 9, 250-256	8.8	73
78	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
77	Mapping the zoonotic niche of Marburg virus disease in Africa. <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i> , 2015 , 109, 366-78	2	64
76	Progress and Challenges in Infectious Disease Cartography. <i>Trends in Parasitology</i> , 2016 , 32, 19-29	6.4	61
75	Genomic Epidemiology Reconstructs the Introduction and Spread of Zika Virus in Central America and Mexico. <i>Cell Host and Microbe</i> , 2018 , 23, 855-864.e7	23.4	60
74	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
73	Epidemiological and ecological determinants of Zika virus transmission in an urban setting. <i>ELife</i> , 2017 , 6,	8.9	55
72	Local, national, and regional viral haemorrhagic fever pandemic potential in Africa: a multistage analysis. <i>Lancet</i> , 2017 , 390, 2662-2672	40	51
71	Tracking the international spread of SARS-CoV-2 lineages B.1.1.7 and B.1.351/501Y-V2 with grinch. <i>Wellcome Open Research</i> , 2021 , 6, 121	4.8	50
70	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

69	Updates to the zoonotic niche map of Ebola virus disease in Africa. <i>ELife</i> , 2016 , 5,	8.9	46
68	Tracking the international spread of SARS-CoV-2 lineages B.1.1.7 and B.1.351/501Y-V2. <i>Wellcome Open Research</i> , 2021 , 6, 121	4.8	46
67	Travel Surveillance and Genomics Uncover a Hidden Zika Outbreak during the Waning Epidemic. <i>Cell</i> , 2019 , 178, 1057-1071.e11	56.2	45
66	Inferring the risk factors behind the geographical spread and transmission of Zika in the Americas. <i>PLoS Neglected Tropical Diseases</i> , 2018 , 12, e0006194	4.8	45
65	Track Omicron's spread with molecular data. <i>Science</i> , 2021 , 374, eabn4543	33.3	44
64	Temperature modulates dengue virus epidemic growth rates through its effects on reproduction numbers and generation intervals. <i>PLoS Neglected Tropical Diseases</i> , 2017 , 11, e0005797	4.8	44
63	A dynamic neural network model for predicting risk of Zika in real time. <i>BMC Medicine</i> , 2019 , 17, 171	11.4	43
62	Spatiotemporal invasion dynamics of SARS-CoV-2 lineage B.1.1.7 emergence. <i>Science</i> , 2021 , 373, 889-895	33.3	41
61	Real-time Epidemic Forecasting: Challenges and Opportunities. <i>Health Security</i> , 2019 , 17, 268-275	2.1	40
60	Emergence of the Asian lineage of Zika virus in Angola: an outbreak investigation. <i>Lancet Infectious Diseases</i> , 2019 , 19, 1138-1147	25.5	40
59	Genomic, epidemiological and digital surveillance of Chikungunya virus in the Brazilian Amazon. <i>PLoS Neglected Tropical Diseases</i> , 2019 , 13, e0007065	4.8	37
58	Mapping global variation in human mobility. <i>Nature Human Behaviour</i> , 2020 , 4, 800-810	12.8	36
57	Projecting the end of the Zika virus epidemic in Latin America: a modelling analysis. <i>BMC Medicine</i> , 2018 , 16, 180	11.4	35
56	Genomic and epidemiological characterisation of a dengue virus outbreak among blood donors in Brazil. <i>Scientific Reports</i> , 2017 , 7, 15216	4.9	33
55	A comprehensive database of the geographic spread of past human Ebola outbreaks. <i>Scientific Data</i> , 2014 , 1, 140042	8.2	32
54	Estimating the probability of dengue virus introduction and secondary autochthonous cases in Europe. <i>Scientific Reports</i> , 2018 , 8, 4629	4.9	29
53	The effect of human mobility and control measures on the COVID-19 epidemic in China 2020 ,		26
52	Global disparities in SARS-CoV-2 genomic surveillance 2021 ,		26

51	Factors Affecting Pre-Travel Health Seeking Behaviour and Adherence to Pre-Travel Health Advice: A Systematic Review. <i>Journal of Travel Medicine</i> , 2019 , 26,	12.9	25
50	Use of Twitter social media activity as a proxy for human mobility to predict the spatiotemporal spread of COVID-19 at global scale. <i>Geospatial Health</i> , 2020 , 15,	2.2	25
49	Inferences about spatiotemporal variation in dengue virus transmission are sensitive to assumptions about human mobility: a case study using geolocated tweets from Lahore, Pakistan. <i>EPJ Data Science</i> , 2018 , 7, 16	3.4	25
48	Genomic and Epidemiological Surveillance of Zika Virus in the Amazon Region. <i>Cell Reports</i> , 2020 , 30, 2275-2283.e7	10.6	24
47	Travel time to health facilities in areas of outbreak potential: maps for guiding local preparedness and response. <i>BMC Medicine</i> , 2019 , 17, 232	11.4	22
46	Reconstruction and prediction of viral disease epidemics. <i>Epidemiology and Infection</i> , 2018 , 147, e34	4.3	22
45	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
44	Elevation as a proxy for mosquito-borne Zika virus transmission in the Americas. <i>PLoS ONE</i> , 2017 , 12, e0178211	3.7	21
43	Rapid epidemic expansion of the SARS-CoV-2 Omicron variant in southern Africa. <i>Nature</i> ,	50.4	20
42	Spatio-temporal dynamics of dengue in Brazil: Seasonal travelling waves and determinants of regional synchrony. <i>PLoS Neglected Tropical Diseases</i> , 2019 , 13, e0007012	4.8	19
41	Zika virus transmission in Angola and the potential for further spread to other African settings. <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i> , 2017 , 111, 527-529	2	19
40	Association between coronavirus disease 2019 (COVID-19) and long-term exposure to air pollution: Evidence from the first epidemic wave in China. <i>Environmental Pollution</i> , 2021 , 276, 116682	9.3	17
39	Identifying residual hotspots and mapping lower respiratory infection morbidity and mortality in African children from 2000 to 2017. <i>Nature Microbiology</i> , 2019 , 4, 2310-2318	26.6	15
38	Potential Zika virus spread within and beyond India. <i>Journal of Travel Medicine</i> , 2018 , 25,	12.9	15
37	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
36	Geolocated Twitter social media data to describe the geographic spread of SARS-CoV-2. <i>Journal of Travel Medicine</i> , 2020 , 27,	12.9	10
35	Mask Wearing and Control of SARS-CoV-2 Transmission in the United States 2020 ,		9
34	Establishment & lineage dynamics of the SARS-CoV-2 epidemic in the UK		9

33	Asynchronicity of endemic and emerging mosquito-borne disease outbreaks in the Dominican Republic. <i>Nature Communications</i> , 2021 , 12, 151	17.4	9
32	Dynamics of conflict during the Ebola outbreak in the Democratic Republic of the Congo 2018-2019. <i>BMC Medicine</i> , 2020 , 18, 113	11.4	6
31	Potential plague exportation from Madagascar via international air travel. <i>Lancet Infectious Diseases, The</i> , 2018 , 18, 247-248	25.5	6
30	Genomic epidemiology of SARS-CoV-2 in Guangdong Province, China		6
29	Epidemiological and clinical characteristics of the early phase of the COVID-19 epidemic in Brazil		6
28	Using digital surveillance tools for near real-time mapping of the risk of infectious disease spread. <i>Npj Digital Medicine</i> , 2021 , 4, 73	15.7	6
27	Endogenous social distancing and its underappreciated impact on the epidemic curve. <i>Scientific Reports</i> , 2021 , 11, 3093	4.9	6
26	Pokhlon Go and Exposure to Mosquito-Borne Diseases: How Not to Catch Them All. <i>PLOS Currents</i> , 2016 , 8,		5
25	Potential for Seasonal Lassa Fever Case Exportation from Nigeria. <i>American Journal of Tropical Medicine and Hygiene</i> , 2019 , 100, 647-651	3.2	5
24	Progress and challenges in virus genomic epidemiology. <i>Trends in Parasitology</i> , 2021 , 37, 1038-1049	6.4	4
23	Transmission of SARS-CoV-2 before and after symptom onset: impact of nonpharmaceutical interventions in China. <i>European Journal of Epidemiology</i> , 2021 , 36, 429-439	12.1	4
22	Genomic epidemiology of SARS-CoV-2 transmission lineages in Ecuador. <i>Virus Evolution</i> , 2021 , 7, veab053	3.7	4
21	Sharing patient-level real-time COVID-19 data. <i>The Lancet Digital Health</i> , 2020 , 2, e345	14.4	3
20	Context-specific emergence and growth of the SARS-CoV-2 Delta variant. 2021 ,		3
19	Monitoring key epidemiological parameters of SARS-CoV-2 transmission. <i>Nature Medicine</i> , 2021 , 27, 1854-1855	18.5	3
18	Recommended reporting items for epidemic forecasting and prediction research: The EPIFORGE 2020 guidelines. <i>PLoS Medicine</i> , 2021 , 18, e1003793	11.6	3
17	Modelling distributions of <i>Aedes aegypti</i> and <i>Aedes albopictus</i> using climate, host density and interspecies competition. <i>PLoS Neglected Tropical Diseases</i> , 2021 , 15, e0009063	4.8	3
16	Trade-offs between individual and ensemble forecasts of an emerging infectious disease. <i>Nature Communications</i> , 2021 , 12, 5379	17.4	3

15	Causal Inference in Spatial Mapping. <i>Trends in Parasitology</i> , 2019 , 35, 743-746	6.4	2
14	Sharing, synthesis and sustainability of data analysis for epidemic preparedness in Europe. <i>Lancet Regional Health - Europe, The</i> , 2021 , 9, 100215		2
13	Transmission of SARS-CoV-2 before and after symptom onset: impact of nonpharmaceutical interventions in China		2
12	Global patterns of aegyptism without arbovirus. <i>PLoS Neglected Tropical Diseases</i> , 2021 , 15, e0009397	4.8	2
11	Assessing the impact of COVID-19 border restrictions on dengue transmission in Yunnan Province, China: an observational epidemiological and phylogenetic analysis. <i>The Lancet Regional Health - Western Pacific</i> , 2021 , 14, 100259	5	2
10	Context-specific emergence and growth of the SARS-CoV-2 Delta variant. 2021 ,		2
9	The impact of anthropogenic and environmental factors on human rabies cases in China. <i>Transboundary and Emerging Diseases</i> , 2020 , 67, 2544-2553	4.2	1
8	Malaria elimination on Hainan Island despite climate change. <i>Communications Medicine</i> , 2022 , 2,		1
7	Emergence of the Zika virus Asian lineage in Angola		1
6	Trade-offs between individual and ensemble forecasts of an emerging infectious disease		1
5	Arboviral diseases and poverty in Alabama, 2007-2017. <i>PLoS Neglected Tropical Diseases</i> , 2021 , 15, e0009455	4.8	1
4	The relationship between rising temperatures and malaria incidence in Hainan, China, from 1984 to 2010: a longitudinal cohort study.. <i>Lancet Planetary Health, The</i> , 2022 , 6, e350-e358	9.8	1
3	Mapping environmental suitability of <i>Haemagogus</i> and <i>Sabethes</i> spp. mosquitoes to understand sylvatic transmission risk of yellow fever virus in Brazil.. <i>PLoS Neglected Tropical Diseases</i> , 2022 , 16, e0010019	4.8	0
2	A review of models applied to the geographic spread of Zika virus. <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i> , 2021 , 115, 956-964	2	0
1	Quantifying the localized relationship between vector containment activities and dengue incidence in a real-world setting: A spatial and time series modelling analysis based on geo-located data from Pakistan. <i>PLoS Neglected Tropical Diseases</i> , 2020 , 14, e0008273	4.8	