Rachel Lowe

List of Publications by Year
in descending order

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85 papers	6,658 citations	147801 31 h-index	79698 73 g-index
101 all docs	101 docs citations	101 times ranked	7734 citing authors

#	Article	IF	Citations
1	The 2020 report of The Lancet Countdown on health and climate change: responding to converging crises. Lancet, The, 2021, 397, 129-170.	13.7	1,030
2	The 2019 report of The Lancet Countdown on health and climate change: ensuring that the health of a child born today is not defined by a changing climate. Lancet, The, 2019, 394, 1836-1878.	13.7	905
3	The 2021 report of the Lancet Countdown on health and climate change: code red for a healthy future. Lancet, The, 2021, 398, 1619-1662.	13.7	669
4	The 2018 report of the Lancet Countdown on health and climate change: shaping the health of nations for centuries to come. Lancet, The, 2018, 392, 2479-2514.	13.7	595
5	The impact of non-pharmaceutical interventions on SARS-CoV-2 transmission across 130 countries and territories. BMC Medicine, 2021, 19, 40.	5.5	257
6	The Zika Virus Epidemic in Brazil: From Discovery to Future Implications. International Journal of Environmental Research and Public Health, 2018, 15, 96.	2.6	254
7	Using a real-world network to model localized COVID-19 control strategies. Nature Medicine, 2020, 26, 1616-1622.	30.7	191
8	Projecting the risk of mosquito-borne diseases in a warmer and more populated world: a multi-model, multi-scenario intercomparison modelling study. Lancet Planetary Health, The, 2021, 5, e404-e414.	11.4	165
9	An open challenge to advance probabilistic forecasting for dengue epidemics. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24268-24274.	7.1	136
10	Spatio-temporal modelling of climate-sensitive disease risk: Towards an early warning system for dengue in Brazil. Computers and Geosciences, 2011, 37, 371-381.	4.2	135
11	Nonlinear and delayed impacts of climate on dengue risk in Barbados: A modelling study. PLoS Medicine, 2018, 15, e1002613.	8.4	135
12	Climate and Non-Climate Drivers of Dengue Epidemics in Southern Coastal Ecuador. American Journal of Tropical Medicine and Hygiene, 2013, 88, 971-981.	1.4	127
13	Dengue outlook for the World Cup in Brazil: an early warning model framework driven by real-time seasonal climate forecasts. Lancet Infectious Diseases, The, 2014, 14, 619-626.	9.1	108
14	The development of an early warning system for climateâ€sensitive disease risk with a focus on dengue epidemics in Southeast Brazil. Statistics in Medicine, 2013, 32, 864-883.	1.6	107
15	Climate services for health: predicting the evolution of the 2016 dengue season in Machala, Ecuador. Lancet Planetary Health, The, 2017, 1, e142-e151.	11.4	97
16	Epidemiological, socio-demographic and clinical features of the early phase of the COVID-19 epidemic in Ecuador. PLoS Neglected Tropical Diseases, 2021, 15, e0008958.	3.0	94
17	The impact of COVID-19 control measures on social contacts and transmission in Kenyan informal settlements. BMC Medicine, 2020, 18, 316.	5.5	88
18	Effective transmission across the globe: the role of climate in COVID-19 mitigation strategies. Lancet Planetary Health, The, 2020, 4, e172.	11.4	84

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19	Assessing the performance of real-time epidemic forecasts: A case study of Ebola in the Western Area region of Sierra Leone, 2014-15. PLoS Computational Biology, 2019, 15, e1006785.	3.2	74
20	Relative importance of climatic, geographic and socio-economic determinants of malaria in Malawi. Malaria Journal, 2013, 12, 416.	2.3	70
21	Measuring the effects of COVID-19-related disruption on dengue transmission in southeast Asia and Latin America: a statistical modelling study. Lancet Infectious Diseases, The, 2022, 22, 657-667.	9.1	68
22	Combined effects of hydrometeorological hazards and urbanisation on dengue risk in Brazil: a spatiotemporal modelling study. Lancet Planetary Health, The, 2021, 5, e209-e219.	11.4	67
23	A cross-sectional analysis of meteorological factors and SARS-CoV-2 transmission in 409 cities across 26 countries. Nature Communications, 2021, 12, 5968.	12.8	66
24	Evaluating probabilistic dengue risk forecasts from a prototype early warning system for Brazil. ELife, 2016, 5, .	6.0	57
25	Projecting the end of the Zika virus epidemic in Latin America: a modelling analysis. BMC Medicine, 2018, 16, 180.	5.5	53
26	Expansion of the dengue transmission area in <scp>B</scp>razil: the role of climate and cities. Tropical Medicine and International Health, 2014, 19, 159-168.	2.3	49
27	Development, environmental degradation, and disease spread in the Brazilian Amazon. PLoS Biology, 2019, 17, e3000526.	5.6	45
28	Effects of Hot Nights on Mortality in Southern Europe. Epidemiology, 2021, 32, 487-498.	2.7	45
29	Quantifying the added value of climate information in a spatio-temporal dengue model. Stochastic Environmental Research and Risk Assessment, 2016, 30, 2067-2078.	4.0	44
30	Recommended reporting items for epidemic forecasting and prediction research: The EPIFORGE 2020 guidelines. PLoS Medicine, 2021, 18, e1003793.	8.4	42
31	Evaluation of an Early-Warning System for Heat Wave-Related Mortality in Europe: Implications for Sub-seasonal to Seasonal Forecasting and Climate Services. International Journal of Environmental Research and Public Health, 2016, 13, 206.	2.6	39
32	Estimating the burden of dengue and the impact of release of wMel Wolbachia-infected mosquitoes in Indonesia: a modelling study. BMC Medicine, 2019, 17, 172.	5.5	38
33	Climate factors and the East Asian summer monsoon may drive large outbreaks of dengue in China. Environmental Research, 2020, 183, 109190.	7.5	36
34	Probabilistic seasonal dengue forecasting in Vietnam: A modelling study using superensembles. PLoS Medicine, 2021, 18, e1003542.	8.4	35
35	An agent-based model driven by tropical rainfall to understand the spatio-temporal heterogeneity of a chikungunya outbreak. Acta Tropica, 2014, 129, 61-73.	2.0	33
36	Spaceâ€“time dynamics of a triple epidemic: dengue, chikungunya and Zika clusters in the city of Rio de Janeiro. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191867.	2.6	33

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37	Malaria in Southern Venezuela: The hottest hotspot in Latin America. PLoS Neglected Tropical Diseases, 2021, 15, e0008211.	3.0	33
38	Emerging arboviruses in the urbanized Amazon rainforest. BMJ, The, 2020, 371, m4385.	6.0	32
39	Strengthening the global response to climate change and infectious disease threats. BMJ, The, 2020, 371, m3081.	6.0	31
40	Tracking progress on health and climate change in Europe. Lancet Public Health, The, 2021, 6, e858-e865.	10.0	30
41	Evaluating the Performance of a Climate-Driven Mortality Model during Heat Waves and Cold Spells in Europe. International Journal of Environmental Research and Public Health, 2015, 12, 1279-1294.	2.6	25
42	On the visualization, verification and recalibration of ternary probabilistic forecasts. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 1100-1120.	3.4	23
43	Using Structured Additive Regression Models to Estimate Risk Factors of Malaria: Analysis of 2010 Malawi Malaria Indicator Survey Data. PLoS ONE, 2014, 9, e101116.	2.5	22
44	Digital and technological innovation in vector-borne disease surveillance to predict, detect, and control climate-driven outbreaks. Lancet Planetary Health, The, 2021, 5, e739-e745.	11.4	22
45	The impact of climate suitability, urbanisation, and connectivity on the expansion of dengue in 21st century Brazil. PLoS Neglected Tropical Diseases, 2021, 15, e0009773.	3.0	22
46	Co-developing climate services for public health: Stakeholder needs and perceptions for the prevention and control of Aedes-transmitted diseases in the Caribbean. PLoS Neglected Tropical Diseases, 2019, 13, e0007772.	3.0	20
47	Tracking the impacts of climate change on human health via indicators: lessons from the Lancet Countdown. BMC Public Health, 2022, 22, 663.	2.9	20
48	Transmission modelling of environmentally persistent zoonotic diseases: a systematic review. Lancet Planetary Health, The, 2021, 5, e466-e478.	11.4	19
49	Childhood malaria case incidence in Malawi between 2004 and 2017: spatio-temporal modelling of climate and non-climate factors. Malaria Journal, 2020, 19, 5.	2.3	18
50	The COVID-19 pandemic should not derail global vector control efforts. PLoS Neglected Tropical Diseases, 2020, 14, e0008606.	3.0	17
51	Planting sustainable seeds in young minds: the need to teach planetary health to children. Lancet Planetary Health, The, 2020, 4, e501-e502.	11.4	16
52	Climate-sensitive disease outbreaks in the aftermath of extreme climatic events: A scoping review. One Earth, 2022, 5, 336-350.	6.8	16
53	Seasonal forecasting and health impact models: challenges and opportunities. Annals of the New York Academy of Sciences, 2016, 1382, 8-20.	3.8	15
54	Spatiotemporal Tools for Emerging and Endemic Disease Hotspots in Small Areas: An Analysis of Dengue and Chikungunya in Barbados, 2013â€“2016. American Journal of Tropical Medicine and Hygiene, 2020, 103, 149-156.	1.4	14

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55	Testing for SARS-CoV-2 at the core of voluntary collective isolation: Lessons from the indigenous populations living in the Amazon region in Ecuador. International Journal of Infectious Diseases, 2021, 105, 234-235.	3.3	12
56	Spatial connectivity in mosquito-borne disease models: a systematic review of methods and assumptions. Journal of the Royal Society Interface, 2021, 18, 20210096.	3.4	12
57	Barriers to Using Climate Information: Challenges in Communicating Probabilistic Forecasts to Decision-Makers. Advances in Natural and Technological Hazards Research, 2016, , 95-113.	1.1	12
58	Building resilience to mosquito-borne diseases in the Caribbean. PLoS Biology, 2020, 18, e3000791.	5.6	12
59	SARS-CoV-2 antibodies protect against reinfection for at least 6 months in a multicentre seroepidemiological workplace cohort. PLoS Biology, 2022, 20, e3001531.	5.6	10
60	The Relative Role of Climate Variation and Control Interventions on Malaria Elimination Efforts in El Oro, Ecuador: A Modeling Study. Frontiers in Environmental Science, 2020, 8, .	3.3	9
61	The 2018â€“2019 weak El NiÃ±o: Predicting the risk of a dengue outbreak in Machala, Ecuador. International Journal of Climatology, 2021, 41, 3813-3823.	3.5	9
62	Sensitivity of large dengue epidemics in Ecuador to long-lead predictions of El NiÃ±o. Climate Services, 2019, 15, 100096.	2.5	7
63	Predicting Climate Impacts on Health at Sub-seasonal to Seasonal Timescales. , 2019, , 455-477.		6
64	Tracking infectious diseases in a warming world. BMJ, The, 2020, 371, m3086.	6.0	5
65	Exceptional Prices of Medical and Other Supplies during the COVID-19 Pandemic in Ecuador. American Journal of Tropical Medicine and Hygiene, 2021, 105, 81-87.	1.4	5
66	Estimating the duration of seropositivity of human seasonal coronaviruses using seroprevalence studies. Wellcome Open Research, 0, 6, 138.	1.8	5
67	Interpretation of probabilistic forecasts of epidemics. Lancet Infectious Diseases, The, 2015, 15, 20.	9.1	4
68	Dengue and the World Football Cup: A Matter of Timing. PLoS Neglected Tropical Diseases, 2014, 8, e3022.	3.0	3
69	Understanding the relative importance of global dengue risk factors. Transactions of the Royal Society of Tropical Medicine and Hygiene, 2015, 109, 607-608.	1.8	3
70	Desirable BUGS in models of infectious diseases. Epidemics, 2019, 29, 100361.	3.0	3
71	Climate services for health: From global observations to local interventions. Med, 2021, 2, 355-361.	4.4	3
72	Estimating the duration of seropositivity of human seasonal coronaviruses using seroprevalence studies. Wellcome Open Research, 2021, 6, 138.	1.8	3

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73	Estimating the duration of seropositivity of human seasonal coronaviruses using seroprevalence studies. Wellcome Open Research, 0, 6, 138.	1.8	3
74	Climate change and health in Southeast Asia â€“ defining research priorities and the role of the Wellcome Trust Africa Asia Programmes. Wellcome Open Research, 0, 6, 278.	1.8	2
75	Modelling Climate-Sensitive Disease Risk: A Decision Support Tool for Public Health Services. Advances in Natural and Technological Hazards Research, 2016, , 115-130.	1.1	1
76	Co-learning during the co-creation of a dengue early warning system for the health sector in Barbados. BMJ Global Health, 2022, 7, e007842.	4.7	1
77	Epidemiological versus meteorological forecasts: Best practice for linking models to policymaking. International Journal of Forecasting, 2021, 38, 521-521.	6.5	0
78	Title is missing!. , 2021, 15, e0008958.		0
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