

Mauricio Santillana

List of Publications by Year in descending order

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73
papers

6,758
citations

182225

30
h-index

120465

65
g-index

94
all docs

94
docs citations

94
times ranked

12103
citing authors

#	ARTICLE	IF	CITATIONS
1	SARS-CoV-2 RNA concentrations in wastewater foreshadow dynamics and clinical presentation of new COVID-19 cases. <i>Science of the Total Environment</i> , 2022, 805, 150121.	3.9	192
2	Predicting dengue incidence leveraging internet-based data sources. A case study in 20 cities in Brazil. <i>PLoS Neglected Tropical Diseases</i> , 2022, 16, e0010071.	1.3	4
3	Association of Major Depressive Symptoms With Endorsement of COVID-19 Vaccine Misinformation Among US Adults. <i>JAMA Network Open</i> , 2022, 5, e2145697.	2.8	23
4	Near real-time surveillance of the SARS-CoV-2 epidemic with incomplete data. <i>PLoS Computational Biology</i> , 2022, 18, e1009964.	1.5	8
5	Prevalence of Firearm Ownership Among Individuals With Major Depressive Symptoms. <i>JAMA Network Open</i> , 2022, 5, e223245.	2.8	7
6	Machine learning approaches to predicting no-shows in pediatric medical appointment. <i>Npj Digital Medicine</i> , 2022, 5, 50.	5.7	11
7	Association of Acute Symptoms of COVID-19 and Symptoms of Depression in Adults. <i>JAMA Network Open</i> , 2021, 4, e213223.	2.8	43
8	An early warning approach to monitor COVID-19 activity with multiple digital traces in near real time. <i>Science Advances</i> , 2021, 7, .	4.7	114
9	Socioeconomic status determines COVID-19 incidence and related mortality in Santiago, Chile. <i>Science</i> , 2021, 372, .	6.0	283
10	Influenza forecasting for French regions combining EHR, web and climatic data sources with a machine learning ensemble approach. <i>PLoS ONE</i> , 2021, 16, e0250890.	1.1	5
11	The role of race, religion, and partisanship in misperceptions about COVID-19. <i>Group Processes and Intergroup Relations</i> , 2021, 24, 638-657.	2.4	38
12	Using heterogeneous data to identify signatures of dengue outbreaks at fine spatio-temporal scales across Brazil. <i>PLoS Neglected Tropical Diseases</i> , 2021, 15, e0009392.	1.3	10
13	Factors Associated With Self-reported Symptoms of Depression Among Adults With and Without a Previous COVID-19 Diagnosis. <i>JAMA Network Open</i> , 2021, 4, e2116612.	2.8	12
14	Toward the use of neural networks for influenza prediction at multiple spatial resolutions. <i>Science Advances</i> , 2021, 7, .	4.7	21
15	Estimating the cumulative incidence of COVID-19 in the United States using influenza surveillance, virologic testing, and mortality data: Four complementary approaches. <i>PLoS Computational Biology</i> , 2021, 17, e1008994.	1.5	28
16	A dynamic, ensemble learning approach to forecast dengue fever epidemic years in Brazil using weather and population susceptibility cycles. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20201006.	1.5	16
17	High coverage COVID-19 mRNA vaccination rapidly controls SARS-CoV-2 transmission in long-term care facilities. <i>Communications Medicine</i> , 2021, 1, .	1.9	16
18	Gender-specificity of resilience in major depressive disorder. <i>Depression and Anxiety</i> , 2021, 38, 1026-1033.	2.0	9

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19	High-Resolution Spatio-Temporal Model for County-Level COVID-19 Activity in the U.S.. ACM Transactions on Management Information Systems, 2021, 12, 1-20.	2.1	13
20	Incorporating human mobility data improves forecasts of Dengue fever in Thailand. Scientific Reports, 2021, 11, 923.	1.6	33
21	Association Between Social Media Use and Self-reported Symptoms of Depression in US Adults. JAMA Network Open, 2021, 4, e2136113.	2.8	17
22	A nowcasting framework for correcting for reporting delays in malaria surveillance. PLoS Computational Biology, 2021, 17, e1009570.	1.5	4
23	Noninvasive Ventilation Is Interrupted Frequently and Mostly Used at Night in the Pediatric Intensive Care Unit. Respiratory Care, 2020, 65, 341-346.	0.8	1
24	The role of environmental factors on transmission rates of the COVID-19 outbreak: an initial assessment in two spatial scales. Scientific Reports, 2020, 10, 17002.	1.6	108
25	Effect of non-pharmaceutical interventions to contain COVID-19 in China. Nature, 2020, 585, 410-413.	13.7	913
26	COVID-19: US federal accountability for entry, spread, and inequitiesâ€”lessons for the future. European Journal of Epidemiology, 2020, 35, 995-1006.	2.5	38
27	Communicating Benefits from Vaccines Beyond Preventing Infectious Diseases. Infectious Diseases and Therapy, 2020, 9, 467-480.	1.8	18
28	Real-time estimation of disease activity in emerging outbreaks using internet search information. PLoS Computational Biology, 2020, 16, e1008117.	1.5	13
29	Adding Continuous Vital Sign Information to Static Clinical Data Improves the Prediction of Length of Stay After Intubation: A Data-Driven Machine Learning Approach. Respiratory Care, 2020, 65, 1367-1377.	0.8	16
30	Aggregated mobility data could help fight COVID-19. Science, 2020, 368, 145-146.	6.0	303
31	Patients with Cancer Appear More Vulnerable to SARS-CoV-2: A Multicenter Study during the COVID-19 Outbreak. Cancer Discovery, 2020, 10, 783-791.	7.7	1,286
32	Fitbit-informed influenza forecasts. The Lancet Digital Health, 2020, 2, e54-e55.	5.9	11
33	The Role of Environmental Factors on Transmission Rates of the COVID-19 Outbreak: An Initial Assessment in Two Spatial Scales.. SSRN Electronic Journal, 2020, , 3552677.	0.4	32
34	Real-Time Forecasting of the COVID-19 Outbreak in Chinese Provinces: Machine Learning Approach Using Novel Digital Data and Estimates From Mechanistic Models. Journal of Medical Internet Research, 2020, 22, e20285.	2.1	38
35	Rates of increase of antibiotic resistance and ambient temperature in Europe: a cross-national analysis of 28 countries between 2000 and 2016. Eurosurveillance, 2020, 25, .	3.9	46
36	Real-time estimation of disease activity in emerging outbreaks using internet search information. , 2020, 16, e1008117.		0

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37	Real-time estimation of disease activity in emerging outbreaks using internet search information. , 2020, 16, e1008117.		0
38	Real-time estimation of disease activity in emerging outbreaks using internet search information. , 2020, 16, e1008117.		0
39	Real-time estimation of disease activity in emerging outbreaks using internet search information. , 2020, 16, e1008117.		0
40	Real-time estimation of disease activity in emerging outbreaks using internet search information. , 2020, 16, e1008117.		0
41	Real-time estimation of disease activity in emerging outbreaks using internet search information. , 2020, 16, e1008117.		0
42	Enhancing Situational Awareness to Prevent Infectious Disease Outbreaks from Becoming Catastrophic. <i>Current Topics in Microbiology and Immunology</i> , 2019, 424, 59-74.	0.7	21
43	Genomic, epidemiological and digital surveillance of Chikungunya virus in the Brazilian Amazon. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007065.	1.3	75
44	1605. Temperature Modulates the Rate of Increase of Antibiotic Resistance Across Europe. <i>Open Forum Infectious Diseases</i> , 2019, 6, S585-S586.	0.4	0
45	Internet search query data improve forecasts of daily emergency department volume. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2019, 26, 1574-1583.	2.2	15
46	Improved state-level influenza nowcasting in the United States leveraging Internet-based data and network approaches. <i>Nature Communications</i> , 2019, 10, 147.	5.8	67
47	Improved Real-Time Influenza Surveillance: Using Internet Search Data in Eight Latin American Countries. <i>JMIR Public Health and Surveillance</i> , 2019, 5, e12214.	1.2	24
48	Differences in Regional Patterns of Influenza Activity Across Surveillance Systems in the United States: Comparative Evaluation. <i>JMIR Public Health and Surveillance</i> , 2019, 5, e13403.	1.2	11
49	Relatedness of the incidence decay with exponential adjustment (IDEA) model, α -Farr's law and SIR compartmental difference equation models. <i>Infectious Disease Modelling</i> , 2018, 3, 1-12.	1.2	14
50	Comparison of crowd-sourced, electronic health records based, and traditional health-care based influenza-tracking systems at multiple spatial resolutions in the United States of America. <i>BMC Infectious Diseases</i> , 2018, 18, 403.	1.3	36
51	Antibiotic resistance increases with local temperature. <i>Nature Climate Change</i> , 2018, 8, 510-514.	8.1	287
52	Estimation of Pneumonic Plague Transmission in Madagascar, August–November 2017. <i>PLOS Currents</i> , 2018, 10, .	1.4	6
53	Accurate Influenza Monitoring and Forecasting Using Novel Internet Data Streams: A Case Study in the Boston Metropolis. <i>JMIR Public Health and Surveillance</i> , 2018, 4, e4.	1.2	85
54	County-level assessment of United States kindergarten vaccination rates for measles mumps rubella (MMR) for the 2014–2015 school year. <i>Vaccine</i> , 2017, 35, 6444-6450.	1.7	7

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55	Using electronic health records and Internet search information for accurate influenza forecasting. BMC Infectious Diseases, 2017, 17, 332.	1.3	79
56	Editorial Commentary: Perspectives on the Future of Internet Search Engines and Biosurveillance Systems. Clinical Infectious Diseases, 2017, 64, 42-43.	2.9	16
57	Advances in using Internet searches to track dengue. PLoS Computational Biology, 2017, 13, e1005607.	1.5	76
58	Forecasting Zika Incidence in the 2016 Latin America Outbreak Combining Traditional Disease Surveillance with Search, Social Media, and News Report Data. PLoS Neglected Tropical Diseases, 2017, 11, e0005295.	1.3	151
59	Determinants of Participants'™ Follow-Up and Characterization of Representativeness in Flu Near You, A Participatory Disease Surveillance System. JMIR Public Health and Surveillance, 2017, 3, e18.	1.2	59
60	Combining Participatory Influenza Surveillance with Modeling and Forecasting: Three Alternative Approaches. JMIR Public Health and Surveillance, 2017, 3, e83.	1.2	42
61	Evaluating the performance of infectious disease forecasts: A comparison of climate-driven and seasonal dengue forecasts for Mexico. Scientific Reports, 2016, 6, 33707.	1.6	82
62	Estimating numerical errors due to operator splitting in global atmospheric chemistry models: Transport and chemistry. Journal of Computational Physics, 2016, 305, 372-386.	1.9	5
63	Utilizing Nontraditional Data Sources for Near Real-Time Estimation of Transmission Dynamics During the 2015-2016 Colombian Zika Virus Disease Outbreak. JMIR Public Health and Surveillance, 2016, 2, e30.	1.2	106
64	Flu Near You: Crowdsourced Symptom Reporting Spanning 2 Influenza Seasons. American Journal of Public Health, 2015, 105, 2124-2130.	1.5	179
65	Combining Search, Social Media, and Traditional Data Sources to Improve Influenza Surveillance. PLoS Computational Biology, 2015, 11, e1004513.	1.5	338
66	Accurate estimation of influenza epidemics using Google search data via ARGO. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14473-14478.	3.3	286
67	2014 Ebola Outbreak: Media Events Track Changes in Observed Reproductive Number. PLOS Currents, 2015, 7, .	1.4	35
68	Evaluation of Internet-Based Dengue Query Data: Google Dengue Trends. PLoS Neglected Tropical Diseases, 2014, 8, e2713.	1.3	107
69	Using Clinicians' Search Query Data to Monitor Influenza Epidemics. Clinical Infectious Diseases, 2014, 59, 1446-1450.	2.9	64
70	What Can Digital Disease Detection Learn from (an External Revision to) Google Flu Trends?. American Journal of Preventive Medicine, 2014, 47, 341-347.	1.6	146
71	A Case Study of the New York City 2012-2013 Influenza Season With Daily Geocoded Twitter Data From Temporal and Spatiotemporal Perspectives. Journal of Medical Internet Research, 2014, 16, e236.	2.1	136
72	An adaptive reduction algorithm for efficient chemical calculations in global atmospheric chemistry models. Atmospheric Environment, 2010, 44, 4426-4431.	1.9	13

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73	COVID-19 Positive Cases, Evidence on the Time Evolution of the Epidemic or An Indicator of Local Testing Capabilities? A Case Study in the United States. SSRN Electronic Journal, 0, , .	0.4	22