

Mauricio Santillana

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

6,758
citations

147801

31
h-index

106344

65
g-index

94
all docs

94
docs citations

94
times ranked

11222
citing authors

#	ARTICLE	IF	CITATIONS
1	Patients with Cancer Appear More Vulnerable to SARS-CoV-2: A Multicenter Study during the COVID-19 Outbreak. <i>Cancer Discovery</i> , 2020, 10, 783-791.	9.4	1,286
2	Effect of non-pharmaceutical interventions to contain COVID-19 in China. <i>Nature</i> , 2020, 585, 410-413.	27.8	913
3	Combining Search, Social Media, and Traditional Data Sources to Improve Influenza Surveillance. <i>PLoS Computational Biology</i> , 2015, 11, e1004513.	3.2	338
4	Aggregated mobility data could help fight COVID-19. <i>Science</i> , 2020, 368, 145-146.	12.6	303
5	Antibiotic resistance increases with local temperature. <i>Nature Climate Change</i> , 2018, 8, 510-514.	18.8	287
6	Accurate estimation of influenza epidemics using Google search data via ARGO. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 14473-14478.	7.1	286
7	Socioeconomic status determines COVID-19 incidence and related mortality in Santiago, Chile. <i>Science</i> , 2021, 372, .	12.6	283
8	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.	8.0	192
9	Flu Near You: Crowdsourced Symptom Reporting Spanning 2 Influenza Seasons. <i>American Journal of Public Health</i> , 2015, 105, 2124-2130.	2.7	179
10	Forecasting Zika Incidence in the 2016 Latin America Outbreak Combining Traditional Disease Surveillance with Search, Social Media, and News Report Data. <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0005295.	3.0	151
11	What Can Digital Disease Detection Learn from (an External Revision to) Google Flu Trends?. <i>American Journal of Preventive Medicine</i> , 2014, 47, 341-347.	3.0	146
12	A Case Study of the New York City 2012-2013 Influenza Season With Daily Geocoded Twitter Data From Temporal and Spatiotemporal Perspectives. <i>Journal of Medical Internet Research</i> , 2014, 16, e236.	4.3	136
13	An early warning approach to monitor COVID-19 activity with multiple digital traces in near real time. <i>Science Advances</i> , 2021, 7, .	10.3	114
14	The role of environmental factors on transmission rates of the COVID-19 outbreak: an initial assessment in two spatial scales. <i>Scientific Reports</i> , 2020, 10, 17002.	3.3	108
15	Evaluation of Internet-Based Dengue Query Data: Google Dengue Trends. <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e2713.	3.0	107
16	Utilizing Nontraditional Data Sources for Near Real-Time Estimation of Transmission Dynamics During the 2015-2016 Colombian Zika Virus Disease Outbreak. <i>JMIR Public Health and Surveillance</i> , 2016, 2, e30.	2.6	106
17	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.	2.6	85
18	Evaluating the performance of infectious disease forecasts: A comparison of climate-driven and seasonal dengue forecasts for Mexico. <i>Scientific Reports</i> , 2016, 6, 33707.	3.3	82

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19	Using electronic health records and Internet search information for accurate influenza forecasting. BMC Infectious Diseases, 2017, 17, 332.	2.9	79
20	Advances in using Internet searches to track dengue. PLoS Computational Biology, 2017, 13, e1005607.	3.2	76
21	Genomic, epidemiological and digital surveillance of Chikungunya virus in the Brazilian Amazon. PLoS Neglected Tropical Diseases, 2019, 13, e0007065.	3.0	75
22	Improved state-level influenza nowcasting in the United States leveraging Internet-based data and network approaches. Nature Communications, 2019, 10, 147.	12.8	67
23	Using Clinicians' Search Query Data to Monitor Influenza Epidemics. Clinical Infectious Diseases, 2014, 59, 1446-1450.	5.8	64
24	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.	2.6	59
25	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, .	7.0	46
26	Association of Acute Symptoms of COVID-19 and Symptoms of Depression in Adults. JAMA Network Open, 2021, 4, e213223.	5.9	43
27	Combining Participatory Influenza Surveillance with Modeling and Forecasting: Three Alternative Approaches. JMIR Public Health and Surveillance, 2017, 3, e83.	2.6	42
28	COVID-19: US federal accountability for entry, spread, and inequities"lessons for the future. European Journal of Epidemiology, 2020, 35, 995-1006.	5.7	38
29	The role of race, religion, and partisanship in misperceptions about COVID-19. Group Processes and Intergroup Relations, 2021, 24, 638-657.	3.9	38
30	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.	4.3	38
31	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. BMC Infectious Diseases, 2018, 18, 403.	2.9	36
32	2014 Ebola Outbreak: Media Events Track Changes in Observed Reproductive Number. PLOS Currents, 2015, 7, .	1.4	35
33	Incorporating human mobility data improves forecasts of Dengue fever in Thailand. Scientific Reports, 2021, 11, 923.	3.3	33
34	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
35	Estimating the cumulative incidence of COVID-19 in the United States using influenza surveillance, virologic testing, and mortality data: Four complementary approaches. PLoS Computational Biology, 2021, 17, e1008994.	3.2	28
36	Improved Real-Time Influenza Surveillance: Using Internet Search Data in Eight Latin American Countries. JMIR Public Health and Surveillance, 2019, 5, e12214.	2.6	24

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37	Association of Major Depressive Symptoms With Endorsement of COVID-19 Vaccine Misinformation Among US Adults. <i>JAMA Network Open</i> , 2022, 5, e2145697.	5.9	23
38	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. <i>SSRN Electronic Journal</i> , 0, , .	0.4	22
39	Enhancing Situational Awareness to Prevent Infectious Disease Outbreaks from Becoming Catastrophic. <i>Current Topics in Microbiology and Immunology</i> , 2019, 424, 59-74.	1.1	21
40	Toward the use of neural networks for influenza prediction at multiple spatial resolutions. <i>Science Advances</i> , 2021, 7, .	10.3	21
41	Communicating Benefits from Vaccines Beyond Preventing Infectious Diseases. <i>Infectious Diseases and Therapy</i> , 2020, 9, 467-480.	4.0	18
42	Association Between Social Media Use and Self-reported Symptoms of Depression in US Adults. <i>JAMA Network Open</i> , 2021, 4, e2136113.	5.9	17
43	Editorial Commentary: Perspectives on the Future of Internet Search Engines and Biosurveillance Systems. <i>Clinical Infectious Diseases</i> , 2017, 64, 42-43.	5.8	16
44	Adding Continuous Vital Sign Information to Static Clinical Data Improves the Prediction of Length of Stay After Intubation: A Data-Driven Machine Learning Approach. <i>Respiratory Care</i> , 2020, 65, 1367-1377.	1.6	16
45	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.	3.4	16
46	High coverage COVID-19 mRNA vaccination rapidly controls SARS-CoV-2 transmission in long-term care facilities. <i>Communications Medicine</i> , 2021, 1, .	4.2	16
47	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.	4.4	15
48	Relatedness of the incidence decay with exponential adjustment (IDEA) model, "Farr's law" and SIR compartmental difference equation models. <i>Infectious Disease Modelling</i> , 2018, 3, 1-12.	1.9	14
49	An adaptive reduction algorithm for efficient chemical calculations in global atmospheric chemistry models. <i>Atmospheric Environment</i> , 2010, 44, 4426-4431.	4.1	13
50	Real-time estimation of disease activity in emerging outbreaks using internet search information. <i>PLoS Computational Biology</i> , 2020, 16, e1008117.	3.2	13
51	High-Resolution Spatio-Temporal Model for County-Level COVID-19 Activity in the U.S.. <i>ACM Transactions on Management Information Systems</i> , 2021, 12, 1-20.	2.8	13
52	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.	5.9	12
53	Fitbit-informed influenza forecasts. <i>The Lancet Digital Health</i> , 2020, 2, e54-e55.	12.3	11
54	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.	2.6	11

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55	Machine learning approaches to predicting no-shows in pediatric medical appointment. <i>Npj Digital Medicine</i> , 2022, 5, 50.	10.9	11
56	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.	3.0	10
57	Gender-specificity of resilience in major depressive disorder. <i>Depression and Anxiety</i> , 2021, 38, 1026-1033.	4.1	9
58	Near real-time surveillance of the SARS-CoV-2 epidemic with incomplete data. <i>PLoS Computational Biology</i> , 2022, 18, e1009964.	3.2	8
59	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.	3.8	7
60	Prevalence of Firearm Ownership Among Individuals With Major Depressive Symptoms. <i>JAMA Network Open</i> , 2022, 5, e223245.	5.9	7
61	Estimation of Pneumonic Plague Transmission in Madagascar, August-November 2017. <i>PLOS Currents</i> , 2018, 10, .	1.4	6
62	Estimating numerical errors due to operator splitting in global atmospheric chemistry models: Transport and chemistry. <i>Journal of Computational Physics</i> , 2016, 305, 372-386.	3.8	5
63	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.	2.5	5
64	A nowcasting framework for correcting for reporting delays in malaria surveillance. <i>PLoS Computational Biology</i> , 2021, 17, e1009570.	3.2	4
65	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.	3.0	4
66	Noninvasive Ventilation Is Interrupted Frequently and Mostly Used at Night in the Pediatric Intensive Care Unit. <i>Respiratory Care</i> , 2020, 65, 341-346.	1.6	1
67	1605. Temperature Modulates the Rate of Increase of Antibiotic Resistance Across Europe. <i>Open Forum Infectious Diseases</i> , 2019, 6, S585-S586.	0.9	0
68	Real-time estimation of disease activity in emerging outbreaks using internet search information. , 2020, 16, e1008117.		0
69	Real-time estimation of disease activity in emerging outbreaks using internet search information. , 2020, 16, e1008117.		0
70	Real-time estimation of disease activity in emerging outbreaks using internet search information. , 2020, 16, e1008117.		0
71	Real-time estimation of disease activity in emerging outbreaks using internet search information. , 2020, 16, e1008117.		0
72	Real-time estimation of disease activity in emerging outbreaks using internet search information. , 2020, 16, e1008117.		0

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