Simon Cauchemez

List of Publications by Year
in descending order

139 papers	18,450 citations

36303

51 h-index	

15732

125 g-index	

161 all docs	161 docs citations

161 times ranked	21988 citing authors

#	Article	IF	Citations
1	Pandemic Potential of a Strain of Influenza A (H1N1): Early Findings. Science, 2009, 324, 1557-1561.	12.6	1,665
2	Strategies for containing an emerging influenza pandemic in Southeast Asia. Nature, 2005, 437, 209-214.	27.8	1,592
3	A New Framework and Software to Estimate Time-Varying Reproduction Numbers During Epidemics. American Journal of Epidemiology, 2013, 178, 1505-1512.	3.4	1,206
4	Time Lines of Infection and Disease in Human Influenza: A Review of Volunteer Challenge Studies. American Journal of Epidemiology, 2008, 167, 775-785.	3.4	927
5	Age-specific mortality and immunity patterns of SARS-CoV-2. Nature, 2021, 590, 140-145.	27.8	883
6	Estimating the burden of SARS-CoV-2 in France. Science, 2020, 369, 208-211.	12.6	880
7	Association between Zika virus and microcephaly in French Polynesia, 2013â€"15: a retrospective study. Lancet, The, 2016, 387, 2125-2132.	13.7	793
8	Past and future spread of the arbovirus vectors Aedes aegypti and Aedes albopictus. Nature Microbiology, 2019, 4, 854-863.	13.3	699
9	Estimating the impact of school closure on influenza transmission from Sentinel data. Nature, 2008, 452, 750-754.	27.8	577
10	Clustering and superspreading potential of SARS-CoV-2 infections in Hong Kong. Nature Medicine, 2020, 26, 1714-1719.	30.7	507
11	Closure of schools during an influenza pandemic. Lancet Infectious Diseases, The, 2009, 9, 473-481.	9.1	448
12	COVID-19 herd immunity: where are we?. Nature Reviews Immunology, 2020, 20, 583-584.	22.7	425
13	Household Transmission of 2009 Pandemic Influenza A (H1N1) Virus in the United States. New England Journal of Medicine, 2009, 361, 2619-2627.	27.0	420
14	Risk for Transportation of Coronavirus Disease from Wuhan to Other Cities in China. Emerging Infectious Diseases, 2020, 26, 1049-1052.	4.3	323
15	Role of social networks in shaping disease transmission during a community outbreak of 2009 H1N1 pandemic influenza. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2825-2830.	7.1	315
16	Middle East respiratory syndrome coronavirus: quantification of the extent of the epidemic, surveillance biases, and transmissibility. Lancet Infectious Diseases, The, 2014, 14, 50-56.	9.1	298
17	Face Mask Use and Control of Respiratory Virus Transmission in Households. Emerging Infectious Diseases, 2009, 15, 233-241.	4.3	285
18	Risk factors of influenza transmission in households. British Journal of General Practice, 2004, 54, 684-9.	1.4	241

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19	A cluster randomized clinical trial comparing fit-tested and non-fit-tested N95 respirators to medical masks to prevent respiratory virus infection in health care workers. Influenza and Other Respiratory Viruses, 2011, 5, 170-179.	3.4	213
20	Reconstruction of antibody dynamics and infection histories to evaluate dengue risk. Nature, 2018, 557, 719-723.	27.8	213
21	Assessing the severity of the novel influenza A/H1N1 pandemic. BMJ: British Medical Journal, 2009, 339, b2840-b2840.	2.3	212
22	Bayesian Reconstruction of Disease Outbreaks by Combining Epidemiologic and Genomic Data. PLoS Computational Biology, 2014, 10, e1003457.	3.2	207
23	Chains of transmission and control of Ebola virus disease in Conakry, Guinea, in 2014: an observational study. Lancet Infectious Diseases, The, 2015, 15, 320-326.	9.1	191
24	Spread of yellow fever virus outbreak in Angola and the Democratic Republic of the Congo 2015â€"16: a modelling study. Lancet Infectious Diseases, The, 2017, 17, 330-338.	9.1	185
25	Managing and Reducing Uncertainty in an Emerging Influenza Pandemic. New England Journal of Medicine, 2009, 361, 112-115.	27.0	172
26	Spatiotemporal invasion dynamics of SARS-CoV-2 lineage B.1.1.7 emergence. Science, 2021, 373, 889-895.	12.6	142
27	Real-time Estimates in Early Detection of SARS. Emerging Infectious Diseases, 2012, 12, 110-113.	4.3	141
28	Estimating in Real Time the Efficacy of Measures to Control Emerging Communicable Diseases. American Journal of Epidemiology, 2006, 164, 591-597.	3.4	126
29	Transmission of Nipah Virus â€" 14 Years of Investigations in Bangladesh. New England Journal of Medicine, 2019, 380, 1804-1814.	27.0	114
30	Likelihood-based estimation of continuous-time epidemic models from time-series data: application to measles transmission in London. Journal of the Royal Society Interface, 2008, 5, 885-897.	3.4	111
31	Genome sequencing defines phylogeny and spread of methicillin-resistant <i>Staphylococcus aureus</i> in a high transmission setting. Genome Research, 2015, 25, 111-118.	5.5	111
32	How social structures, space, and behaviors shape the spread of infectious diseases using chikungunya as a case study. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13420-13425.	7.1	100
33	Household Transmission of Influenza Virus. Trends in Microbiology, 2016, 24, 123-133.	7.7	100
34	Unraveling the drivers of MERS-CoV transmission. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9081-9086.	7.1	95
35	Influenza A Virus Shedding and Infectivity in Households. Journal of Infectious Diseases, 2015, 212, 1420-1428.	4.0	92
36	Epidemiological characteristics of an urban plague epidemic in Madagascar, Augustâ€"November, 2017: an outbreak report. Lancet Infectious Diseases, The, 2019, 19, 537-545.	9.1	88

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37	Spatial dynamics of the 1918 influenza pandemic in England, Wales and the United States. Journal of the Royal Society Interface, 2011, 8, 233-243.	3.4	85
38	A Change in Vaccine Efficacy and Duration of Protection Explains Recent Rises in Pertussis Incidence in the United States. PLoS Computational Biology, 2015, 11, e1004138.	3.2	85
39	Influenza Infection Rates, Measurement Errors and the Interpretation of Paired Serology. PLoS Pathogens, 2012, 8, e1003061.	4.7	84
40	Measuring the path toward malaria elimination. Science, 2014, 344, 1230-1232.	12.6	84
41	Estimating Dengue Transmission Intensity from Sero-Prevalence Surveys in Multiple Countries. PLoS Neglected Tropical Diseases, 2015, 9, e0003719.	3.0	84
42	Association Between Antibody Titers and Protection Against Influenza Virus Infection Within Households. Journal of Infectious Diseases, 2014, 210, 684-692.	4.0	83
43	â€œPrepandemicâ€•Immunization for Novel Influenza Viruses, â€œSwine Fluâ€•Vaccine, Guillainâ€Barré Syndrome, and the Detection of Rare Severe Adverse Events. Journal of Infectious Diseases, 2009, 200, 321-328.	4.0	81
44	The Early Transmission Dynamics of H1N1pdm Influenza in the United Kingdom. PLOS Currents, 2009, 1, RRN1130.	1.4	76
45	Reconstruction of 60 Years of Chikungunya Epidemiology in the Philippines Demonstrates Episodic and Focal Transmission. Journal of Infectious Diseases, 2016, 213, 604-610.	4.0	72
46	Essential epidemiological mechanisms underpinning the transmission dynamics of seasonal influenza. Journal of the Royal Society Interface, 2012, 9, 304-312.	3.4	65
47	Revealing the Micro-scale Signature of Endemic Zoonotic Disease Transmission in an African Urban Setting. PLoS Pathogens, 2016, 12, e1005525.	4.7	65
48	Early assessment of diffusion and possible expansion of SARS-CoV-2 Lineage 20I/501Y.V1 (B.1.1.7, variant) Tj ETQq0 0 0 rgBT /Overlock	7.0	65
49	Worldwide Reduction in MERS Cases and Deaths since 2016. Emerging Infectious Diseases, 2019, 25, 1758-1760.	4.3	63
50	School closures during the 2009 influenza pandemic: national and local experiences. BMC Infectious Diseases, 2014, 14, 207.	2.9	62
51	Increased transmissibility explains the third wave of infection by the 2009 H1N1 pandemic virus in England. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13422-13427.	7.1	60
52	Transmission Characteristics of the 2009 H1N1 Influenza Pandemic: Comparison of 8 Southern Hemisphere Countries. PLoS Pathogens, 2011, 7, e1002225.	4.7	57
53	Exposures associated with SARS-CoV-2 infection in France: A nationwide online case-control study. Lancet Regional Health - Europe, The, 2021, 7, 100148.	5.6	57
54	Cluster of COVID-19 in Northern France: A Retrospective Closed Cohort Study. SSRN Electronic Journal, 0, , .	0.4	57

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55	Use of a Human Influenza Challenge Model to Assess Person-to-Person Transmission: Proof-of-Concept Study. Journal of Infectious Diseases, 2012, 205, 35-43.	4.0	55
56	Use of Viremia to Evaluate the Baseline Case Fatality Ratio of Ebola Virus Disease and Inform Treatment Studies: A Retrospective Cohort Study. PLoS Medicine, 2015, 12, e1001908.	8.4	54
57	Monitoring the proportion of the population infected by SARS-CoV-2 using age-stratified hospitalisation and serological data: a modelling study. Lancet Public Health, The, 2021, 6, e408-e415.	10.0	54
58	Patterns of uptake of HIV testing in sub‐Saharan Africa in the pre‐treatment era. Tropical Medicine and International Health, 2012, 17, e26-37.	2.3	53
59	Patterns of Self-reported Behaviour Change Associated with Receiving Voluntary Counselling and Testing in a Longitudinal Study from Manicaland, Zimbabwe. AIDS and Behavior, 2010, 14, 708-715.	2.7	50
60	Transmission Dynamics, Border Entry Screening, and School Holidays during the 2009 Influenza A (H1N1) Pandemic, China. Emerging Infectious Diseases, 2012, 18, 758-766.	4.3	49
61	Lockdown impact on COVID-19 epidemics in regions across metropolitan France. Lancet, The, 2020, 396, 1068-1069.	13.7	49
62	Serial Intervals and the Temporal Distribution of Secondary Infections within Households of 2009 Pandemic Influenza A (H1N1): Implications for Influenza Control Recommendations. Clinical Infectious Diseases, 2011, 52, S123-S130.	5.8	48
63	Using Routine Surveillance Data to Estimate the Epidemic Potential of Emerging Zoonoses: Application to the Emergence of US Swine Origin Influenza A H3N2v Virus. PLoS Medicine, 2013, 10, e1001399.	8.4	47
64	Rabies and Canine Distemper Virus Epidemics in the Red Fox Population of Northern Italy (2006–2010). PLoS ONE, 2013, 8, e61588.	2.5	47
65	A modelling study investigating short and medium-term challenges for COVID-19 vaccination: From prioritisation to the relaxation of measures. EClinicalMedicine, 2021, 38, 101001.	7.1	45
66	A new approach to characterising infectious disease transmission dynamics from sentinel surveillance: Application to the Italian 2009–2010 A/H1N1 influenza pandemic. Epidemics, 2012, 4, 9-21.	3.0	42
67	The proportion of asymptomatic infections and spectrum of disease among pregnant women infected by Zika virus: systematic monitoring in French Guiana, 2016. Eurosurveillance, 2017, 22, .	7.0	42
68	Estimating the Severity and Subclinical Burden of Middle East Respiratory Syndrome Coronavirus Infection in the Kingdom of Saudi Arabia. American Journal of Epidemiology, 2016, 183, 657-663.	3.4	41
69	Model-Based Comprehensive Analysis of School Closure Policies for Mitigating Influenza Epidemics and Pandemics. PLoS Computational Biology, 2016, 12, e1004681.	3.2	39
70	Determinants of Influenza Transmission in South East Asia: Insights from a Household Cohort Study in Vietnam. PLoS Pathogens, 2014, 10, e1004310.	4.7	37
71	OutbreakTools: A new platform for disease outbreak analysis using the R software. Epidemics, 2014, 7, 28-34.	3.0	37
72	Estimating Dengue Transmission Intensity from Case-Notification Data from Multiple Countries. PLoS Neglected Tropical Diseases, 2016, 10, e0004833.	3.0	37

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73	Screening and vaccination against COVID-19 to minimise school closure: a modelling study. Lancet Infectious Diseases, The, 2022, 22, 977-989.	9.1	37
74	Impact of mass testing during an epidemic rebound of SARS-CoV-2: a modelling study using the example of France. Eurosurveillance, 2021, 26, .	7.0	36
75	Seroepidemiology of Human Enterovirus 71 Infection among Children, Cambodia. Emerging Infectious Diseases, 2016, 22, 92-95.	4.3	35
76	Evolution of outcomes for patients hospitalised during the first 9 months of the SARS-CoV-2 pandemic in France: A retrospective national surveillance data analysis. Lancet Regional Health - Europe, The, 2021, 5, 100087.	5.6	35
77	Evaluating the impact of curfews and other measures on SARS-CoV-2 transmission in French Guiana. Nature Communications, 2021, 12, 1634.	12.8	33
78	The environmental deposition of influenza virus from patients infected with influenza A(H1N1)pdm09: Implications for infection prevention and control. Journal of Infection and Public Health, 2016, 9, 278-288.	4.1	32
79	Individual Correlates of Infectivity of Influenza A Virus Infections in Households. PLoS ONE, 2016, 11, e0154418.	2.5	30
80	Methods to infer transmission risk factors in complex outbreak data. Journal of the Royal Society Interface, 2012, 9, 456-469.	3.4	29
81	Outbreaks of H5N1 in poultry in Thailand: the relative role of poultry production types in sustaining transmission and the impact of active surveillance in control. Journal of the Royal Society Interface, 2012, 9, 1836-1845.	3.4	29
82	Estimating sources and sinks of malaria parasites in Madagascar. Nature Communications, 2018, 9, 3897.	12.8	28
83	Do not neglect SARS-CoV-2 hospitalization and fatality risks in the middle-aged adult population. Infectious Diseases Now, 2021, 51, 380-382.	1.6	28
84	Monitoring key epidemiological parameters of SARS-CoV-2 transmission. Nature Medicine, 2021, 27, 1854-1855.	30.7	28
85	An ensemble model based on early predictors to forecast COVID-19 health care demand in France. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2103302119.	7.1	28
86	A Bayesian Approach to Quantifying the Effects of Mass Poultry Vaccination upon the Spatial and Temporal Dynamics of H5N1 in Northern Vietnam. PLoS Computational Biology, 2010, 6, e1000683.	3.2	27
87	Intradermal rabies post-exposure prophylaxis can be abridged with no measurable impact on clinical outcome in Cambodia, 2003â€"2014. Vaccine, 2019, 37, A118-A127.	3.8	25
88	Minimal transmission in an influenza A (H3N2) human challenge-transmission model within a controlled exposure environment. PLoS Pathogens, 2020, 16, e1008704.	4.7	24
89	Investigating Heterogeneity in Pneumococcal Transmission. Journal of the American Statistical Association, 2006, 101, 946-958.	3.1	23
90	Dynamics of conflict during the Ebola outbreak in the Democratic Republic of the Congo 2018â€"2019. BMC Medicine, 2020, 18, 113.	5.5	23

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91	Cold and dry winter conditions are associated with greater SARS-CoV-2 transmission at regional level in western countries during the first epidemic wave. Scientific Reports, 2021, 11, 12756.	3.3	23
92	Emergence and global spread of *Listeria monocytogenes* main clinical clonal complex. Science Advances, 2021, 7, eabj9805.	10.3	23
93	Impact of Zika Virus Emergence in French Guiana: A Large General Population Seroprevalence Survey. Journal of Infectious Diseases, 2019, 220, 1915-1925.	4.0	22
94	Global spatial dynamics and vaccine-induced fitness changes of *Bordetella pertussis*. Science Translational Medicine, 2022, 14, eabn3253.	12.4	22
95	Reconstructing Mayaro virus circulation in French Guiana shows frequent spillovers. Nature Communications, 2020, 11, 2842.	12.8	21
96	Evaluation of the extended efficacy of the Dengvaxia vaccine against symptomatic and subclinical dengue infection. Nature Medicine, 2021, 27, 1395-1400.	30.7	21
97	Adherence and sustainability of interventions informing optimal control against the COVID-19 pandemic. Communications Medicine, 2021, 1, .	4.2	21
98	How Modelling Can Enhance the Analysis of Imperfect Epidemic Data. Trends in Parasitology, 2019, 35, 369-379.	3.3	20
99	Indirect protection from vaccinating children against influenza in households. Nature Communications, 2019, 10, 106.	12.8	19
100	Transmission of Antimicrobial Resistant *Yersinia pestis* During a Pneumonic Plague Outbreak. Clinical Infectious Diseases, 2022, 74, 695-702.	5.8	19
101	Humoral and cellular immune correlates of protection against bubonic plague by a live Yersinia pseudotuberculosis vaccine. Vaccine, 2019, 37, 123-129.	3.8	17
102	Impact of booster vaccination on the control of COVID-19 Delta wave in the context of waning immunity: application to France in the winter 2021/22. Eurosurveillance, 2022, 27, .	7.0	17
103	Real-Time Assessment of Health-Care Requirements During the Zika Virus Epidemic in Martinique. American Journal of Epidemiology, 2017, 186, 1194-1203.	3.4	16
104	Integrative study of pandemic A/H1N1 influenza infections: design and methods of the CoPanFlu-France cohort. BMC Public Health, 2012, 12, 417.	2.9	15
105	Mathematical modelling and phylodynamics for the study of dog rabies dynamics and control: A scoping review. PLoS Neglected Tropical Diseases, 2021, 15, e0009449.	3.0	15
106	Epidemiology and control of SARS-CoV-2 epidemics in partially vaccinated populations: a modeling study applied to France. BMC Medicine, 2022, 20, 33.	5.5	14
107	Agent-based modelling of reactive vaccination of workplaces and schools against COVID-19. Nature Communications, 2022, 13, 1414.	12.8	14
108	Interpreting Seroepidemiologic Studies of Influenza in a Context of Nonbracketing Sera. Epidemiology, 2016, 27, 152-158.	2.7	12

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109	Reconstructing unseen transmission events to infer dengue dynamics from viral sequences. Nature Communications, 2021, 12, 1810.	12.8	12
110	Education and mental health: good reasons to vaccinate children. Lancet, The, 2021, 398, 387.	13.7	12
111	Lockdown impact on age-specific contact patterns and behaviours, France, April 2020. Eurosurveillance, 2021, 26, .	7.0	12
112	Zika Virus Circulation in Mali. Emerging Infectious Diseases, 2020, 26, 945-952.	4.3	11
113	Assessing the feasibility of Nipah vaccine efficacy trials based on previous outbreaks in Bangladesh. Vaccine, 2021, 39, 5600-5606.	3.8	11
114	SARS-CoV-2 transmission across age groups in France and implications for control. Nature Communications, 2021, 12, 6895.	12.8	11
115	Benefits and risks associated with different uses of the COVID-19 vaccine Vaxzevria: a modelling study, France, May to September 2021. Eurosurveillance, 2021, 26, .	7.0	10
116	Early chains of transmission of COVID-19 in France, January to March 2020. Eurosurveillance, 2022, 27, .	7.0	10
117	Optimizing the Precision of Case Fatality Ratio Estimates Under the Surveillance Pyramid Approach. American Journal of Epidemiology, 2014, 180, 1036-1046.	3.4	9
118	Assessing Zika Virus Transmission Within Households During an Outbreak in Martinique, 2015–2016. American Journal of Epidemiology, 2019, 188, 1389-1396.	3.4	9
119	Spatial Distribution and Burden of Emerging Arboviruses in French Guiana. Viruses, 2021, 13, 1299.	3.3	9
120	Seroprevalence of anti-SARS-CoV-2 IgG at the first epidemic peak in French Guiana, July 2020. PLoS Neglected Tropical Diseases, 2021, 15, e0009945.	3.0	9
121	Reconstructing antibody dynamics to estimate the risk of influenza virus infection. Nature Communications, 2022, 13, 1557.	12.8	9
122	Improving the provision of rabies post-exposure prophylaxis. Lancet Infectious Diseases, The, 2019, 19, 12-13.	9.1	8
123	Selection for infectivity profiles in slow and fast epidemics, and the rise of SARS-CoV-2 variants. ELife, 2022, 11, .	6.0	8
124	Using serological studies to reconstruct the history of bluetongue epidemic in French cattle under successive vaccination campaigns. Epidemics, 2018, 25, 54-60.	3.0	7
125	Using secondary cases to characterize the severity of an emerging or re-emerging infection. Nature Communications, 2021, 12, 6372.	12.8	7
126	Could clinical symptoms be a predictor of complications in Zika virus infection? – Authors' reply. Lancet, The, 2016, 388, 338-339.	13.7	6

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127	Dengue serosurvey after a 2-month long outbreak in NÃ®mes, France, 2015: was there more than met the eye?. Eurosurveillance, 2018, 23, .	7.0	6
128	Epidemic models: why and how to use them. Anaesthesia, Critical Care & Pain Medicine, 2022, 41, 101048.	1.4	6
129	Managing COVID-19 importation risks in a heterogeneous world. Lancet Public Health, The, 2021, 6, e626-e627.	10.0	5
130	Model-based assessment of Chikungunya and Oâ€™nyong-nyong virus circulation in Mali in a serological cross-reactivity context. Nature Communications, 2021, 12, 6735.	12.8	4
131	Impact of Vaccine Schedule Change on Pertussis Epidemiology in France: A Modelling and Serological Study. SSRN Electronic Journal, 0, , .	0.4	3
132	Lockdown as a last resort option in case of COVID-19 epidemic rebound: a modelling study. Eurosurveillance, 2021, 26, .	7.0	3
133	Comparing the age and sex trajectories of SARS-CoV-2 morbidity and mortality with other respiratory pathogens. Royal Society Open Science, 2022, 9, .	2.4	3
134	Responseâ€"Influenza. Science, 2009, 325, 1072-1073.	12.6	2
135	Enterovirus outbreak dynamics. Science, 2018, 361, 755-756.	12.6	2
136	A network-based approach to modelling bluetongue spread in France. Preventive Veterinary Medicine, 2019, 170, 104744.	1.9	1
137	Title is missing!. , 2020, 16, e1008704.		0
138	Title is missing!. , 2020, 16, e1008704.		0
139	Title is missing!. , 2020, 16, e1008704.		0