

Ccile Viboud

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

152
papers

12,231
citations

51
h-index

109
g-index

165
ext. papers

15,342
ext. citations

11.2
avg, IF

6.91
L-index

#	Paper	IF	Citations
152	The effect of travel restrictions on the spread of the 2019 novel coronavirus (COVID-19) outbreak. <i>Science</i> , 2020 , 368, 395-400	33.3	1798
151	Changes in contact patterns shape the dynamics of the COVID-19 outbreak in China. <i>Science</i> , 2020 , 368, 1481-1486	33.3	610
150	Hand, foot, and mouth disease in China, 2008-12: an epidemiological study. <i>Lancet Infectious Diseases</i> , 2014 , 14, 308-318	25.5	609
149	Synchrony, waves, and spatial hierarchies in the spread of influenza. <i>Science</i> , 2006 , 312, 447-51	33.3	598
148	Evolving epidemiology and transmission dynamics of coronavirus disease 2019 outside Hubei province, China: a descriptive and modelling study. <i>Lancet Infectious Diseases</i> , 2020 , 20, 793-802	25.5	394
147	Impact of influenza vaccination on seasonal mortality in the US elderly population. <i>Archives of Internal Medicine</i> , 2005 , 165, 265-72		382
146	Modeling infectious disease dynamics in the complex landscape of global health. <i>Science</i> , 2015 , 347, aaa4339	33.3	324
145	Influenza in tropical regions. <i>PLoS Medicine</i> , 2006 , 3, e89	11.6	313
144	Transmission characteristics of MERS and SARS in the healthcare setting: a comparative study. <i>BMC Medicine</i> , 2015 , 13, 210	11.4	301
143	Environmental predictors of seasonal influenza epidemics across temperate and tropical climates. <i>PLoS Pathogens</i> , 2013 , 9, e1003194	7.6	301
142	Early epidemiological analysis of the coronavirus disease 2019 outbreak based on crowdsourced data: a population-level observational study. <i>The Lancet Digital Health</i> , 2020 , 2, e201-e208	14.4	284
141	Estimation of Excess Deaths Associated With the COVID-19 Pandemic in the United States, March to May 2020. <i>JAMA Internal Medicine</i> , 2020 , 180, 1336-1344	11.5	238
140	Latitudinal variations in seasonal activity of influenza and respiratory syncytial virus (RSV): a global comparative review. <i>PLoS ONE</i> , 2013 , 8, e54445	3.7	232
139	Reassessing Google Flu Trends data for detection of seasonal and pandemic influenza: a comparative epidemiological study at three geographic scales. <i>PLoS Computational Biology</i> , 2013 , 9, e1003256 ²²³	5.5	223
138	Risk factors of influenza transmission in households. <i>British Journal of General Practice</i> , 2004 , 54, 684-9	1.6	214
137	Mathematical models to characterize early epidemic growth: A review. <i>Physics of Life Reviews</i> , 2016 , 18, 66-97	2.1	209
136	Mortality due to influenza in the United States--an annualized regression approach using multiple-cause mortality data. <i>American Journal of Epidemiology</i> , 2006 , 163, 181-7	3.8	207

135	Urbanization and humidity shape the intensity of influenza epidemics in U.S. cities. <i>Science</i> , 2018 , 362, 75-79	33.3	179
134	A generalized-growth model to characterize the early ascending phase of infectious disease outbreaks. <i>Epidemics</i> , 2016 , 15, 27-37	5.1	177
133	Transmission heterogeneities, kinetics, and controllability of SARS-CoV-2. <i>Science</i> , 2021 , 371,	33.3	173
132	Influenza seasonality: lifting the fog. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 3645-6	11.5	166
131	Characterizing the epidemiology of the 2009 influenza A/H1N1 pandemic in Mexico. <i>PLoS Medicine</i> , 2011 , 8, e1000436	11.6	164
130	Multinational impact of the 1968 Hong Kong influenza pandemic: evidence for a smoldering pandemic. <i>Journal of Infectious Diseases</i> , 2005 , 192, 233-48	7	158
129	The genesis and spread of reassortment human influenza A/H3N2 viruses conferring adamantane resistance. <i>Molecular Biology and Evolution</i> , 2007 , 24, 1811-20	8.3	150
128	Preliminary Estimates of Mortality and Years of Life Lost Associated with the 2009 A/H1N1 Pandemic in the US and Comparison with Past Influenza Seasons. <i>PLOS Currents</i> , 2010 , 2, RRN1153		142
127	Improving the estimation of influenza-related mortality over a seasonal baseline. <i>Epidemiology</i> , 2012 , 23, 829-38	3.1	110
126	The RAPIDD ebola forecasting challenge: Synthesis and lessons learnt. <i>Epidemics</i> , 2018 , 22, 13-21	5.1	106
125	Spatial Transmission of 2009 Pandemic Influenza in the US. <i>PLoS Computational Biology</i> , 2014 , 10, e1003635		103
124	Human mobility and the spatial transmission of influenza in the United States. <i>PLoS Computational Biology</i> , 2017 , 13, e1005382	5	101
123	Influenza epidemics in the United States, France, and Australia, 1972-1997. <i>Emerging Infectious Diseases</i> , 2004 , 10, 32-9	10.2	101
122	Global Mortality Impact of the 1957-1959 Influenza Pandemic. <i>Journal of Infectious Diseases</i> , 2016 , 213, 738-45	7	98
121	Transmissibility and mortality impact of epidemic and pandemic influenza, with emphasis on the unusually deadly 1951 epidemic. <i>Vaccine</i> , 2006 , 24, 6701-7	4.1	95
120	Serological evidence of human infection with SARS-CoV-2: a systematic review and meta-analysis. <i>The Lancet Global Health</i> , 2021 , 9, e598-e609	13.6	93
119	Global migration of influenza A viruses in swine. <i>Nature Communications</i> , 2015 , 6, 6696	17.4	91
118	Association between respiratory syncytial virus activity and pneumococcal disease in infants: a time series analysis of US hospitalization data. <i>PLoS Medicine</i> , 2015 , 12, e1001776	11.6	90

117	Using Phenomenological Models to Characterize Transmissibility and Forecast Patterns and Final Burden of Zika Epidemics. <i>PLOS Currents</i> , 2016 , 8,		89
116	Using phenomenological models for forecasting the 2015 Ebola challenge. <i>Epidemics</i> , 2018 , 22, 62-70	5.1	85
115	Global, regional, and national estimates of target population sizes for covid-19 vaccination: descriptive study. <i>BMJ, The</i> , 2020 , 371, m4704	5.9	84
114	Synthesizing data and models for the spread of MERS-CoV, 2013: key role of index cases and hospital transmission. <i>Epidemics</i> , 2014 , 9, 40-51	5.1	83
113	Prediction of the spread of influenza epidemics by the method of analogues. <i>American Journal of Epidemiology</i> , 2003 , 158, 996-1006	3.8	81
112	The origin and global emergence of adamantane resistant A/H3N2 influenza viruses. <i>Virology</i> , 2009 , 388, 270-8	3.6	79
111	Infectious Disease Surveillance in the Big Data Era: Towards Faster and Locally Relevant Systems. <i>Journal of Infectious Diseases</i> , 2016 , 214, S380-S385	7	72
110	Characterizing the reproduction number of epidemics with early subexponential growth dynamics. <i>Journal of the Royal Society Interface</i> , 2016 , 13,	4.1	68
109	Association of influenza epidemics with global climate variability. <i>European Journal of Epidemiology</i> , 2004 , 19, 1055-9	12.1	67
108	The Western Africa ebola virus disease epidemic exhibits both global exponential and local polynomial growth rates. <i>PLOS Currents</i> , 2015 , 7,		67
107	Infectivity, susceptibility, and risk factors associated with SARS-CoV-2 transmission under intensive contact tracing in Hunan, China. <i>Nature Communications</i> , 2021 , 12, 1533	17.4	53
106	Impact of cross-protective vaccines on epidemiological and evolutionary dynamics of influenza. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 3173-7	11.5	52
105	Demonstrating the use of high-volume electronic medical claims data to monitor local and regional influenza activity in the US. <i>PLoS ONE</i> , 2014 , 9, e102429	3.7	51
104	Global mortality of 2009 pandemic influenza A H1N1. <i>Lancet Infectious Diseases, The</i> , 2012 , 12, 651-3	25.5	51
103	Disease burden and clinical severity of the first pandemic wave of COVID-19 in Wuhan, China. <i>Nature Communications</i> , 2020 , 11, 5411	17.4	51
102	Is West Africa Approaching a Catastrophic Phase or is the 2014 Ebola Epidemic Slowing Down? Different Models Yield Different Answers for Liberia. <i>PLOS Currents</i> , 2014 , 6,		50
101	Modeling of Future COVID-19 Cases, Hospitalizations, and Deaths, by Vaccination Rates and Nonpharmaceutical Intervention Scenarios - United States, April-September 2021. <i>Morbidity and Mortality Weekly Report</i> , 2021 , 70, 719-724	31.7	50
100	Childhood immune imprinting to influenza A shapes birth year-specific risk during seasonal H1N1 and H3N2 epidemics. <i>PLoS Pathogens</i> , 2019 , 15, e1008109	7.6	47

99	Evaluating Google Flu Trends in Latin America: Important Lessons for the Next Phase of Digital Disease Detection. <i>Clinical Infectious Diseases</i> , 2017 , 64, 34-41	11.6	44
98	Air travel and the spread of influenza: important caveats. <i>PLoS Medicine</i> , 2006 , 3, e503; author reply e502	11.6	40
97	Case Fatality Risk of the First Pandemic Wave of Coronavirus Disease 2019 (COVID-19) in China. <i>Clinical Infectious Diseases</i> , 2021 , 73, e79-e85	11.6	40
96	Epidemic dynamics of respiratory syncytial virus in current and future climates. <i>Nature Communications</i> , 2019 , 10, 5512	17.4	40
95	Influenza-related mortality trends in Japanese and American seniors: evidence for the indirect mortality benefits of vaccinating schoolchildren. <i>PLoS ONE</i> , 2011 , 6, e26282	3.7	38
94	Transmission potential of influenza A/H7N9, February to May 2013, China. <i>BMC Medicine</i> , 2013 , 11, 214	11.4	36
93	1951 influenza epidemic, England and Wales, Canada, and the United States. <i>Emerging Infectious Diseases</i> , 2006 , 12, 661-8	10.2	36
92	Impact of contact tracing on SARS-CoV-2 transmission. <i>Lancet Infectious Diseases</i> , 2020 , 20, 876-877	25.5	35
91	Asymptomatic Transmission and the Dynamics of Zika Infection. <i>Scientific Reports</i> , 2017 , 7, 5829	4.9	35
90	Estimating the early death toll of COVID-19 in the United States 2020 ,		33
89	The role of influenza in the epidemiology of pneumonia. <i>Scientific Reports</i> , 2015 , 5, 15314	4.9	32
88	Contrasting the epidemiological and evolutionary dynamics of influenza spatial transmission. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013 , 368, 20120199	5.8	32
87	Despite vaccination, China needs non-pharmaceutical interventions to prevent widespread outbreaks of COVID-19 in 2021. <i>Nature Human Behaviour</i> , 2021 , 5, 1009-1020	12.8	32
86	Who should be prioritized for COVID-19 vaccination in China? A descriptive study. <i>BMC Medicine</i> , 2021 , 19, 45	11.4	31
85	The future of influenza forecasts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 2802-2804	11.5	30
84	Mortality burden of the 2009-10 influenza pandemic in the United States: improving the timeliness of influenza severity estimates using inpatient mortality records. <i>Influenza and Other Respiratory Viruses</i> , 2013 , 7, 863-71	5.6	30
83	Searching for sharp drops in the incidence of pandemic A/H1N1 influenza by single year of age. <i>PLoS ONE</i> , 2012 , 7, e42328	3.7	30
82	The association of meningococcal disease with influenza in the United States, 1989-2009. <i>PLoS ONE</i> , 2014 , 9, e107486	3.7	30

81	Age profile of susceptibility, mixing, and social distancing shape the dynamics of the novel coronavirus disease 2019 outbreak in China 2020 ,		29
80	Risk factors of influenza transmission in households. <i>International Congress Series</i> , 2004 , 1263, 291-294		27
79	First flu is forever. <i>Science</i> , 2016 , 354, 706-707	33.3	26
78	Characterizing Ebola Transmission Patterns Based on Internet News Reports. <i>Clinical Infectious Diseases</i> , 2016 , 62, 24-31	11.6	25
77	Potential Role of Social Distancing in Mitigating Spread of Coronavirus Disease, South Korea. <i>Emerging Infectious Diseases</i> , 2020 , 26, 2697-2700	10.2	25
76	Evaluation of Southern Hemisphere influenza vaccine recommendations. <i>Vaccine</i> , 2010 , 28, 2693-9	4.1	24
75	Evolving epidemiology of novel coronavirus diseases 2019 and possible interruption of local transmission outside Hubei Province in China: a descriptive and modeling study 2020 ,		24
74	Population-level mathematical modeling of antimicrobial resistance: a systematic review. <i>BMC Medicine</i> , 2019 , 17, 81	11.4	23
73	Does seasonal influenza vaccination increase the risk of illness with the 2009 A/H1N1 pandemic virus?. <i>PLoS Medicine</i> , 2010 , 7, e1000259	11.6	23
72	Doubling Time of the COVID-19 Epidemic by Chinese Province 2020 ,		23
71	Infectivity, susceptibility, and risk factors associated with SARS-CoV-2 transmission under intensive contact tracing in Hunan, China 2020 ,		23
70	Serological evidence of human infection with SARS-CoV-2: a systematic review and meta-analysis 2020 ,		22
69	Substantial Morbidity and Mortality Associated with Pandemic A/H1N1 Influenza in Mexico, Winter 2013-2014: Gradual Age Shift and Severity. <i>PLOS Currents</i> , 2014 , 6,		21
68	Deploying digital health data to optimize influenza surveillance at national and local scales. <i>PLoS Computational Biology</i> , 2018 , 14, e1006020	5	20
67	The impact of relaxing interventions on human contact patterns and SARS-CoV-2 transmission in China. <i>Science Advances</i> , 2021 , 7,	14.3	20
66	On the Relative Role of Different Age Groups During Epidemics Associated With Respiratory Syncytial Virus. <i>Journal of Infectious Diseases</i> , 2018 , 217, 238-244	7	19
65	Is it growing exponentially fast? -- Impact of assuming exponential growth for characterizing and forecasting epidemics with initial near-exponential growth dynamics. <i>Infectious Disease Modelling</i> , 2016 , 1, 71-78	15.7	18
64	Antimicrobial resistance prevalence, rates of hospitalization with septicemia and rates of mortality with sepsis in adults in different US states. <i>International Journal of Antimicrobial Agents</i> , 2019 , 54, 23-34	14.3	16

63	Timing and periodicity of influenza epidemics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 12899-12901	11.5	16
62	COVID-19 reopening strategies at the county level in the face of uncertainty: Multiple Models for Outbreak Decision Support 2020 ,		16
61	Excess mortality patterns during 1918-1921 influenza pandemic in the state of Arizona, USA. <i>Annals of Epidemiology</i> , 2018 , 28, 273-280	6.4	15
60	Elucidating Transmission Patterns From Internet Reports: Ebola and Middle East Respiratory Syndrome as Case Studies. <i>Journal of Infectious Diseases</i> , 2016 , 214, S421-S426	7	14
59	Early epidemiological analysis of the 2019-nCoV outbreak based on a crowdsourced data		13
58	A systematic review and evaluation of Zika virus forecasting and prediction research during a public health emergency of international concern. <i>PLoS Neglected Tropical Diseases</i> , 2019 , 13, e0007451	4.8	12
57	The 1918 Influenza Pandemic: Looking Back, Looking Forward. <i>American Journal of Epidemiology</i> , 2018 , 187, 2493-2497	3.8	12
56	Increasing similarity in the dynamics of influenza in two adjacent subtropical Chinese cities following the relaxation of border restrictions. <i>Journal of General Virology</i> , 2014 , 95, 531-538	4.9	11
55	Detecting signals of seasonal influenza severity through age dynamics. <i>BMC Infectious Diseases</i> , 2015 , 15, 587	4	11
54	Transmission heterogeneities, kinetics, and controllability of SARS-CoV-2 2020 ,		11
53	Reduced-Dose Schedule of Prophylaxis Based on Local Data Provides Near-Optimal Protection Against Respiratory Syncytial Virus. <i>Clinical Infectious Diseases</i> , 2015 , 61, 506-14	11.6	10
52	Intense seasonal A/H1N1 influenza in Mexico, winter 2013-2014. <i>Archives of Medical Research</i> , 2015 , 46, 63-70	6.6	10
51	Pandemic influenza and socioeconomic disparities: Lessons from 1918 Chicago. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13557-13559	11.5	10
50	Fogarty International Center collaborative networks in infectious disease modeling: Lessons learnt in research and capacity building. <i>Epidemics</i> , 2019 , 26, 116-127	5.1	10
49	Mortality and transmissibility patterns of the 1957 influenza pandemic in Maricopa County, Arizona. <i>BMC Infectious Diseases</i> , 2016 , 16, 405	4	9
48	Case fatality risk of novel coronavirus diseases 2019 in China 2020 ,		9
47	Hospitalizations Associated with Respiratory Syncytial Virus and Influenza in Children, Including Children Diagnosed with Asthma. <i>Epidemiology</i> , 2019 , 30, 918-926	3.1	9
46	Health benefits of universal influenza vaccination strategy. <i>PLoS Medicine</i> , 2008 , 5, e216	11.6	8

45	Beyond clinical trials: Evolutionary and epidemiological considerations for development of a universal influenza vaccine. <i>PLoS Pathogens</i> , 2020 , 16, e1008583	7.6	8
44	Health-seeking behaviors of patients with acute respiratory infections during the outbreak of novel coronavirus disease 2019 in Wuhan, China. <i>Influenza and Other Respiratory Viruses</i> , 2021 , 15, 188-194	5.6	8
43	Estimating the establishment of local transmission and the cryptic phase of the COVID-19 pandemic in the USA 2020 ,		7
42	Real-time estimation of disease activity in emerging outbreaks using internet search information. <i>PLoS Computational Biology</i> , 2020 , 16, e1008117	5	7
41	Toward the use of neural networks for influenza prediction at multiple spatial resolutions. <i>Science Advances</i> , 2021 , 7,	14.3	7
40	Fitbit-informed influenza forecasts. <i>The Lancet Digital Health</i> , 2020 , 2, e54-e55	14.4	6
39	The impact of relaxing interventions on human contact patterns and SARS-CoV-2 transmission in China 2020 ,		6
38	Strategic testing approaches for targeted disease monitoring can be used to inform pandemic decision-making. <i>PLoS Biology</i> , 2021 , 19, e3001307	9.7	6
37	Herd immunity induced by COVID-19 vaccination programs to suppress epidemics caused by SARS-CoV-2 wild type and variants in China 2021 ,		6
36	Ebola vaccine trials: a race against the clock. <i>Lancet Infectious Diseases, The</i> , 2015 , 15, 624-6	25.5	5
35	Application of the CDC EbolaResponse Modeling tool to disease predictions. <i>Epidemics</i> , 2018 , 22, 22-28	5.1	5
34	Controlling Ebola: key role of Ebola treatment centres. <i>Lancet Infectious Diseases, The</i> , 2015 , 15, 139-41	25.5	5
33	Timely estimates of influenza A H7N9 infection severity. <i>Lancet, The</i> , 2013 , 382, 106-8	40	5
32	Cryptic transmission of SARS-CoV-2 and the first COVID-19 wave. <i>Nature</i> , 2021 , 600, 127-132	50.4	5
31	Global, regional, and national estimates of target population sizes for COVID-19 vaccination 2020 ,		5
30	Spatial dynamics and the basic reproduction number of the 1991-1997 Cholera epidemic in Peru. <i>PLoS Neglected Tropical Diseases</i> , 2020 , 14, e0008045	4.8	5
29	SARS-CoV-2 incidence, transmission, and reinfection in a rural and an urban setting: results of the PHIRST-C cohort study, South Africa, 2020-21.. <i>Lancet Infectious Diseases, The</i> , 2022 ,	25.5	5
28	Disease burden and clinical severity of the first pandemic wave of COVID-19 in Wuhan, China 2020 ,		4

27	Identification and evaluation of epidemic prediction and forecasting reporting guidelines: A systematic review and a call for action. <i>Epidemics</i> , 2020 , 33, 100400	5.1	4
26	Model-based evaluation of alternative reactive class closure strategies against COVID-19.. <i>Nature Communications</i> , 2022 , 13, 322	17.4	3
25	Investigating vaccine-induced immunity and its effect in mitigating SARS-CoV-2 epidemics in China.. <i>BMC Medicine</i> , 2022 , 20, 37	11.4	3
24	Recommended reporting items for epidemic forecasting and prediction research: The EPIFORGE 2020 guidelines. <i>PLoS Medicine</i> , 2021 , 18, e1003793	11.6	3
23	Childhood immune imprinting to influenza A shapes birth year-specific risk during seasonal H1N1 and H3N2 epidemics		3
22	Health seeking behaviors of patients with acute respiratory infections during the outbreak of novel coronavirus disease 2019 in Wuhan, China 2020 ,		3
21	Projected resurgence of COVID-19 in the United States in July-December 2021 resulting from the increased transmissibility of the Delta variant and faltering vaccination 2021 ,		3
20	Levels of outpatient prescribing for four major antibiotic classes and rates of septicemia hospitalization in adults in different US states - a statistical analysis. <i>BMC Public Health</i> , 2019 , 19, 1138	4.1	2
19	Coordinating the real-time use of global influenza activity data for better public health planning. <i>Influenza and Other Respiratory Viruses</i> , 2020 , 14, 105-110	5.6	2
18	Early sub-exponential epidemic growth: Simple models, nonlinear incidence rates, and additional mechanisms: Reply to comments on "Mathematical models to characterize early epidemic growth: A review". <i>Physics of Life Reviews</i> , 2016 , 18, 114-117	2.1	2
17	Global circulation of respiratory viruses: from local observations to global predictions. <i>The Lancet Global Health</i> , 2019 , 7, e982-e983	13.6	2
16	Reply to Mamelund. <i>Journal of Infectious Diseases</i> , 2012 , 206, 141-143	7	2
15	Mortality Associated With Influenza and Respiratory Syncytial Virus in the US, 1999-2018.. <i>JAMA Network Open</i> , 2022 , 5, e220527	10.4	2
14	Does seasonal influenza vaccination increase the risk of illness with the 2009 A/H1N1 pandemic virus?. <i>International Journal of Risk and Safety in Medicine</i> , 2011 , 23, 97-102	1.6	1
13	Synergistic interventions to control COVID-19: Mass testing and isolation mitigates reliance on distancing. <i>PLoS Computational Biology</i> , 2021 , 17, e1009518	5	1
12	Cryptic transmission of SARS-CoV-2 and the first COVID-19 wave in Europe and the United States 2021 ,		1
11	Implications of climatic and demographic change for seasonal influenza dynamics and evolution		1
10	Can a COVID-19 vaccination program guarantee the return to a pre-pandemic lifestyle? 2021 ,		1

9	Impact of SARS-CoV-2 vaccination of children ages 5-11 years on COVID-19 disease burden and resilience to new variants in the United States, November 2021-March 2022: a multi-model study. 2022,	1
8	Quantifying the fitness of antiviral-resistant influenza strains. <i>Lancet Infectious Diseases, The</i> , 2017 , 17, 250-251	25.5
7	Reply to Wilson et al. <i>Journal of Infectious Diseases</i> , 2014 , 210, 995-7	7
6	Real-time estimation of disease activity in emerging outbreaks using internet search information 2020 , 16, e1008117	
5	Real-time estimation of disease activity in emerging outbreaks using internet search information 2020 , 16, e1008117	
4	Real-time estimation of disease activity in emerging outbreaks using internet search information 2020 , 16, e1008117	
3	Real-time estimation of disease activity in emerging outbreaks using internet search information 2020 , 16, e1008117	
2	Real-time estimation of disease activity in emerging outbreaks using internet search information 2020 , 16, e1008117	
1	Real-time estimation of disease activity in emerging outbreaks using internet search information 2020 , 16, e1008117	