

## List of Publications by Year in descending order

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109  
papers

5,551  
citations

186265

28  
h-index

106344

65  
g-index

125  
all docs

125  
docs citations

125  
times ranked

7538  
citing authors

#	ARTICLE	IF	CITATIONS
1	Preliminary estimation of the basic reproduction number of novel coronavirus (2019-nCoV) in China, from 2019 to 2020: A data-driven analysis in the early phase of the outbreak. <i>International Journal of Infectious Diseases</i> , 2020, 92, 214-217.	3.3	1,428
2	A conceptual model for the coronavirus disease 2019 (COVID-19) outbreak in Wuhan, China with individual reaction and governmental action. <i>International Journal of Infectious Diseases</i> , 2020, 93, 211-216.	3.3	859
3	Estimating the Unreported Number of Novel Coronavirus (2019-nCoV) Cases in China in the First Half of January 2020: A Data-Driven Modelling Analysis of the Early Outbreak. <i>Journal of Clinical Medicine</i> , 2020, 9, 388.	2.4	378
4	The relative transmissibility of asymptomatic COVID-19 infections among close contacts. <i>International Journal of Infectious Diseases</i> , 2020, 94, 145-147.	3.3	199
5	Decreased Case Fatality Rate of COVID-19 in the Second Wave: A study in 53 countries or regions. <i>Transboundary and Emerging Diseases</i> , 2021, 68, 213-215.	3.0	136
6	The association between domestic train transportation and novel coronavirus (2019-nCoV) outbreak in China from 2019 to 2020: A data-driven correlational report. <i>Travel Medicine and Infectious Disease</i> , 2020, 33, 101568.	3.0	132
7	Mathematical modeling of COVID-19 epidemic with effect of awareness programs. <i>Infectious Disease Modelling</i> , 2021, 6, 448-460.	1.9	83
8	Modelling the large-scale yellow fever outbreak in Luanda, Angola, and the impact of vaccination. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006158.	3.0	83
9	Estimation of exponential growth rate and basic reproduction number of the coronavirus disease 2019 (COVID-19) in Africa. <i>Infectious Diseases of Poverty</i> , 2020, 9, 96.	3.7	79
10	Quantifying the transmission advantage associated with N501Y substitution of SARS-CoV-2 in the UK: an early data-driven analysis. <i>Journal of Travel Medicine</i> , 2021, 28, .	3.0	79
11	Preliminary estimates of the reproduction number of the coronavirus disease (COVID-19) outbreak in Republic of Korea and Italy by 5 March 2020. <i>International Journal of Infectious Diseases</i> , 2020, 95, 308-310.	3.3	77
12	Preliminary estimation of the novel coronavirus disease (COVID-19) cases in Iran: A modelling analysis based on overseas cases and air travel data. <i>International Journal of Infectious Diseases</i> , 2020, 94, 29-31.	3.3	72
13	Quantifying the association between domestic travel and the exportation of novel coronavirus (2019-nCoV) cases from Wuhan, China in 2020: a correlational analysis. <i>Journal of Travel Medicine</i> , 2020, 27, .	3.0	71
14	Imitation dynamics in the mitigation of the novel coronavirus disease (COVID-19) outbreak in Wuhan, China from 2019 to 2020. <i>Annals of Translational Medicine</i> , 2020, 8, 448-448.	1.7	60
15	Modeling the spread of Middle East respiratory syndrome coronavirus in Saudi Arabia. <i>Statistical Methods in Medical Research</i> , 2018, 27, 1968-1978.	1.5	55
16	Estimating the generation interval and inferring the latent period of COVID-19 from the contact tracing data. <i>Epidemics</i> , 2021, 36, 100482.	3.0	55
17	Estimating the Serial Interval of the Novel Coronavirus Disease (COVID-19): A Statistical Analysis Using the Public Data in Hong Kong From January 16 to February 15, 2020. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	53
18	COVID-19 and gender-specific difference: Analysis of public surveillance data in Hong Kong and Shenzhen, China, from January 10 to February 15, 2020. <i>Infection Control and Hospital Epidemiology</i> , 2020, 41, 750-751.	1.8	53

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19	Mechanistic modelling of the large-scale Lassa fever epidemics in Nigeria from 2016 to 2019. <i>Journal of Theoretical Biology</i> , 2020, 493, 110209.	1.7	44
20	Serial interval in determining the estimation of reproduction number of the novel coronavirus disease (COVID-19) during the early outbreak. <i>Journal of Travel Medicine</i> , 2020, 27, .	3.0	43
21	Simple framework for real-time forecast in a data-limited situation: the Zika virus (ZIKV) outbreaks in Brazil from 2015 to 2016 as an example. <i>Parasites and Vectors</i> , 2019, 12, 344.	2.5	42
22	Comparing COVID-19 and the 1918â€“19 influenza pandemics in the United Kingdom. <i>International Journal of Infectious Diseases</i> , 2020, 98, 67-70.	3.3	38
23	A re-analysis in exploring the association between temperature and COVID-19 transmissibility: an ecological study with 154 Chinese cities. <i>European Respiratory Journal</i> , 2020, 56, 2001253.	6.7	34
24	Epidemiological Parameters of COVID-19: Case Series Study. <i>Journal of Medical Internet Research</i> , 2020, 22, e19994.	4.3	33
25	Large-scale Lassa fever outbreaks in Nigeria: quantifying the association between disease reproduction number and local rainfall. <i>Epidemiology and Infection</i> , 2020, 148, e4.	2.1	32
26	Estimating the time interval between transmission generations when negative values occur in the serial interval data: using COVID-19 as an example. <i>Mathematical Biosciences and Engineering</i> , 2020, 17, 3512-3519.	1.9	32
27	A comparison study of Zika virus outbreaks in French Polynesia, Colombia and the State of Bahia in Brazil. <i>Scientific Reports</i> , 2017, 7, 273.	3.3	31
28	A mathematical model to study the 2014â€“2015 large-scale dengue epidemics in Kaohsiung and Tainan cities in Taiwan, China. <i>Mathematical Biosciences and Engineering</i> , 2019, 16, 3841-3863.	1.9	31
29	Long-term exposure to fine particulate matter and dementia incidence: A cohort study in Hong Kong. <i>Environmental Pollution</i> , 2021, 271, 116303.	7.5	30
30	Modelling the effective reproduction number of vector-borne diseases: the yellow fever outbreak in Luanda, Angola 2015â€“2016 as an example. <i>PeerJ</i> , 2020, 8, e8601.	2.0	30
31	Estimating the serial interval of the novel coronavirus disease (COVIDâ€“19) based on the public surveillance data in Shenzhen, China, from 19 January to 22 February 2020. <i>Transboundary and Emerging Diseases</i> , 2020, 67, 2818-2822.	3.0	29
32	Reinfection or Reactivation of Severe Acute Respiratory Syndrome Coronavirus 2: A Systematic Review. <i>Frontiers in Public Health</i> , 2021, 9, 663045.	2.7	29
33	Ratio of asymptomatic COVID-19 cases among ascertained SARS-CoV-2 infections in different regions and population groups in 2020: a systematic review and meta-analysis including 130 123 infections from 241 studies. <i>BMJ Open</i> , 2021, 11, e049752.	1.9	29
34	Superspreading and heterogeneity in transmission of SARS, MERS, and COVID-19: A systematic review. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 5039-5046.	4.1	28
35	Long-Term Exposure to Ambient Fine Particulate Matter and Mortality From Renal Failure: A Retrospective Cohort Study in Hong Kong, China. <i>American Journal of Epidemiology</i> , 2020, 189, 602-612.	3.4	27
36	The ambient ozone and COVID-19 transmissibility in China: A data-driven ecological study of 154 cities. <i>Journal of Infection</i> , 2020, 81, e9-e11.	3.3	27

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37	Modelling the skip-and-resurgence of Japanese encephalitis epidemics in Hong Kong. <i>Journal of Theoretical Biology</i> , 2018, 454, 1-10.	1.7	26
38	Modelling the effects of the contaminated environments on tuberculosis in Jiangsu, China. <i>Journal of Theoretical Biology</i> , 2021, 508, 110453.	1.7	26
39	Strategic decision making about travel during disease outbreaks: a game theoretical approach. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180515.	3.4	24
40	The basic reproduction number of novel coronavirus (2019-nCoV) estimation based on exponential growth in the early outbreak in China from 2019 to 2020: A reply to Dhungana. <i>International Journal of Infectious Diseases</i> , 2020, 94, 148-150.	3.3	24
41	The shortage of hospital beds for COVID-19 and non-COVID-19 patients during the lockdown of Wuhan, China. <i>Annals of Translational Medicine</i> , 2021, 9, 200-200.	1.7	24
42	Positive RT-PCR tests among discharged COVID-19 patients in Shenzhen, China. <i>Infection Control and Hospital Epidemiology</i> , 2020, 41, 1110-1112.	1.8	23
43	Inferencing superspreading potential using zero-truncated negative binomial model: exemplification with COVID-19. <i>BMC Medical Research Methodology</i> , 2021, 21, 30.	3.1	23
44	Monitoring disease transmissibility of 2019 novel coronavirus disease in Zhejiang, China. <i>International Journal of Infectious Diseases</i> , 2020, 96, 128-130.	3.3	22
45	Increase in Diabetes Mortality Associated With COVID-19 Pandemic in the U.S.. <i>Diabetes Care</i> , 2021, 44, e146-e147.	8.6	22
46	Low dispersion in the infectiousness of COVID-19 cases implies difficulty in control. <i>BMC Public Health</i> , 2020, 20, 1558.	2.9	21
47	Inferring the Association between the Risk of COVID-19 Case Fatality and N501Y Substitution in SARS-CoV-2. <i>Viruses</i> , 2021, 13, 638.	3.3	21
48	Association of time to diagnosis with socioeconomic position and geographical accessibility to healthcare among symptomatic COVID-19 patients: A retrospective study in Hong Kong. <i>Health and Place</i> , 2020, 66, 102465.	3.3	20
49	Using Proper Mean Generation Intervals in Modeling of COVID-19. <i>Frontiers in Public Health</i> , 2021, 9, 691262.	2.7	20
50	Transmission dynamics of SARS-CoV-2: A modeling analysis with high-and-moderate risk populations. <i>Results in Physics</i> , 2021, 26, 104290.	4.1	19
51	The joint association of physical activity and fine particulate matter exposure with incident dementia in elderly Hong Kong residents. <i>Environment International</i> , 2021, 156, 106645.	10.0	19
52	Forecast of the COVID-19 trend in India: A simple modelling approach. <i>Mathematical Biosciences and Engineering</i> , 2021, 18, 9775-9786.	1.9	19
53	The Heterogeneous Severity of COVID-19 in African Countries: A Modeling Approach. <i>Bulletin of Mathematical Biology</i> , 2022, 84, 32.	1.9	18
54	New estimates of the Zika virus epidemic attack rate in Northeastern Brazil from 2015 to 2016: A modelling analysis based on Guillain-Barré Syndrome (GBS) surveillance data. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0007502.	3.0	16

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55	Real-time estimation of the reproduction number of the novel coronavirus disease (COVID-19) in China in 2020 based on incidence data. <i>Annals of Translational Medicine</i> , 2020, 8, 689-689.	1.7	15
56	The long-term changing dynamics of dengue infectivity in Guangdong, China, from 2008 to 2018: a modelling analysis. <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i> , 2020, 114, 62-71.	1.8	14
57	Estimation of COVID-19 under-ascertainment in Kano, Nigeria during the early phase of the epidemics. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 4547-4554.	6.4	14
58	Analysing increasing trends of Guillain-Barré Syndrome (GBS) and dengue cases in Hong Kong using meteorological data. <i>PLoS ONE</i> , 2017, 12, e0187830.	2.5	14
59	Effects of particulate matter exposure on the transmissibility and case fatality rate of COVID-19: A Nationwide Ecological Study in China. <i>Journal of Travel Medicine</i> , 2020, 27, .	3.0	13
60	In silico prediction of influenza vaccine effectiveness by sequence analysis. <i>Vaccine</i> , 2021, 39, 1030-1034.	3.8	12
61	To avoid the noncausal association between environmental factor and COVID-19 when using aggregated data: Simulation-based counterexamples for demonstration. <i>Science of the Total Environment</i> , 2020, 748, 141590.	8.0	10
62	Quantifying the importance of the key sites on haemagglutinin in determining the selection advantage of influenza virus: Using A/H3N2 as an example. <i>Journal of Infection</i> , 2020, 81, 452-482.	3.3	10
63	Mathematical modeling and analysis of meningococcal meningitis transmission dynamics. <i>International Journal of Biomathematics</i> , 2020, 13, 2050006.	2.9	9
64	Modelling the association between COVID-19 transmissibility and D614G substitution in SARS-CoV-2 spike protein: using the surveillance data in California as an example. <i>Theoretical Biology and Medical Modelling</i> , 2021, 18, 10.	2.1	9
65	Dynamics analysis of typhoid fever with public health education programs and final epidemic size relation. <i>Results in Applied Mathematics</i> , 2021, 10, 100153.	1.3	9
66	COVID-19 and Lassa fever in Nigeria: A deadly alliance?. <i>International Journal of Infectious Diseases</i> , 2022, 117, 45-47.	3.3	9
67	Meningitis epidemics shift in sub-Saharan belt. <i>International Journal of Infectious Diseases</i> , 2018, 68, 79-82.	3.3	8
68	Phase-shifting of the transmissibility of macrolide-sensitive and resistant <i>Mycoplasma pneumoniae</i> epidemics in Hong Kong, from 2015 to 2018. <i>International Journal of Infectious Diseases</i> , 2019, 81, 251-253.	3.3	8
69	Could the ambient higher temperature decrease the transmissibility of COVID-19 in China?. <i>Environmental Research</i> , 2021, 193, 110576.	7.5	8
70	The changing patterns of COVID-19 transmissibility during the social unrest in the United States: A nationwide ecological study with a before-and-after comparison. <i>One Health</i> , 2021, 12, 100201.	3.4	8
71	Transmissibility of coronavirus disease 2019 in Chinese cities with different dynamics of imported cases. <i>PeerJ</i> , 2020, 8, e10350.	2.0	8
72	Modeling the 2014 to 2015 Ebola Virus Disease Outbreaks in Sierra Leone, Guinea, and Liberia with Effect of High- and Low-risk Susceptible Individuals. <i>Bulletin of Mathematical Biology</i> , 2020, 82, 102.	1.9	7

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73	Associations between Public Awareness, Local Precipitation, and Cholera in Yemen in 2017. <i>American Journal of Tropical Medicine and Hygiene</i> , 2019, 101, 521-524.	1.4	7
74	Superspreading potential of SARS-CoV-2 Delta variants under intensive disease control measures in China. <i>Journal of Travel Medicine</i> , 2022, 29, .	3.0	7
75	Superspreading potential of infection seeded by the SARS-CoV-2 Omicron BA.1 variant in South Korea. <i>Journal of Infection</i> , 2022, 85, e77-e79.	3.3	7
76	Epidemiology of an unexpected measles outbreak in Hong Kong, from March to April, 2019. <i>Travel Medicine and Infectious Disease</i> , 2019, 30, 133-136.	3.0	6
77	Initial COVID-19 Transmissibility and Three Gaseous Air Pollutants (NO <sub>2</sub> , SO <sub>2</sub> , and CO): A Nationwide Ecological Study in China. <i>Frontiers in Medicine</i> , 2020, 7, 575839.	2.6	6
78	Predicting the dominant influenza A serotype by quantifying mutation activities. <i>International Journal of Infectious Diseases</i> , 2020, 100, 255-257.	3.3	6
79	A simple approach to estimate the instantaneous case fatality ratio: Using the publicly available COVID-19 surveillance data in Canada as an example. <i>Infectious Disease Modelling</i> , 2020, 5, 575-579.	1.9	6
80	The time serial distribution and influencing factors of asymptomatic COVID-19 cases in Hong Kong. <i>One Health</i> , 2020, 10, 100166.	3.4	6
81	Estimating the time interval between transmission generations and the presymptomatic period by contact tracing surveillance data from 31 provinces in the mainland of China. <i>Fundamental Research</i> , 2021, 1, 104-110.	3.3	6
82	Quantifying the effect of government interventions and virus mutations on transmission advantage during COVID-19 pandemic. <i>Journal of Infection and Public Health</i> , 2022, 15, 338-342.	4.1	6
83	Heterogeneous epidemic modelling within an enclosed space and corresponding Bayesian estimation. <i>Infectious Disease Modelling</i> , 2022, 7, 1-24.	1.9	6
84	Quantifying the improvement in confirmation efficiency of the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) during the early phase of the outbreak in Hong Kong in 2020. <i>International Journal of Infectious Diseases</i> , 2020, 96, 284-287.	3.3	5
85	An early assessment of a case fatality risk associated with P.1 SARS-CoV-2 lineage in Brazil: an ecological study. <i>Journal of Travel Medicine</i> , 2021, 28, .	3.0	5
86	Exploring the Interaction between E484K and N501Y Substitutions of SARS-CoV-2 in Shaping the Transmission Advantage of COVID-19 in Brazil: A Modeling Study. <i>American Journal of Tropical Medicine and Hygiene</i> , 2021, 105, 1247-1254.	1.4	5
87	The non-pharmaceutical interventions may affect the advantage in transmission of mutated variants during epidemics: A conceptual model for COVID-19. <i>Journal of Theoretical Biology</i> , 2022, 542, 111105.	1.7	5
88	Transmission dynamics of COVID-19 pandemic with combined effects of relapse, reinfection and environmental contribution: A modeling analysis. <i>Results in Physics</i> , 2022, 38, 105653.	4.1	5
89	Characterizing superspreading potential of infectious disease: Decomposition of individual transmissibility. <i>PLoS Computational Biology</i> , 2022, 18, e1010281.	3.2	5
90	&lt;p&gt;Modelling the Measles Outbreak at Hong Kong International Airport in 2019: A Data-Driven Analysis on the Effects of Timely Reporting and Public Awareness&lt;/p&gt;. <i>Infection and Drug Resistance</i> , 2020, Volume 13, 1851-1861.	2.7	4

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91	Public awareness, news promptness and the measles outbreak in Hong Kong from March to April, 2019. <i>Infectious Diseases</i> , 2020, 52, 284-290.	2.8	4
92	Limited role for meteorological factors on the variability in COVID-19 incidence: A retrospective study of 102 Chinese cities. <i>PLoS Neglected Tropical Diseases</i> , 2021, 15, e0009056.	3.0	4
93	The reproductive number of Lassa fever: a systematic review. <i>Journal of Travel Medicine</i> , 2021, 28, .	3.0	4
94	Differential Influence of Age on the Relationship between Genetic Mismatch and A(H1N1)pdm09 Vaccine Effectiveness. <i>Viruses</i> , 2021, 13, 619.	3.3	4
95	Estimating the Instantaneous Asymptomatic Proportion With a Simple Approach: Exemplified With the Publicly Available COVID-19 Surveillance Data in Hong Kong. <i>Frontiers in Public Health</i> , 2021, 9, 604455.	2.7	4
96	The co-circulating transmission dynamics of SARS-CoV-2 Alpha and Eta variants in Nigeria: A retrospective modeling study of COVID-19. <i>Journal of Global Health</i> , 2021, 11, 05028.	2.7	4
97	The Long-Term Periodic Patterns of Global Rabies Epidemics Among Animals: A Modeling Analysis. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2020, 30, 2050047.	1.7	3
98	Attach importance of the bootstrap test against Student's t test in clinical epidemiology: a demonstrative comparison using COVID-19 as an example. <i>Epidemiology and Infection</i> , 2021, 149, e107.	2.1	3
99	Joint effect between bisphenol A and alcohol consumption on benign prostatic hyperplasia: A case-control study in Hong Kong Chinese males. <i>Prostate</i> , 2021, 81, 1214-1224.	2.3	3
100	Epidemiological parameters and models of coronavirus disease 2019. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020, 69, 090202.	0.5	3
101	Modelling COVID-19 outbreak on the Diamond Princess ship using the public surveillance data. <i>Infectious Disease Modelling</i> , 2022, 7, 189-195.	1.9	3
102	A Bayesian method for synthesizing multiple diagnostic outcomes of COVID-19 tests. <i>Royal Society Open Science</i> , 2021, 8, 201867.	2.4	2
103	Real-time quantification of the transmission advantage associated with a single mutation in pathogen genomes: a case study on the D614G substitution of SARS-CoV-2. <i>BMC Infectious Diseases</i> , 2021, 21, 1039.	2.9	2
104	Response to Comments on "Preliminary estimation of the basic reproduction number of novel coronavirus (2019-nCoV) in China, from 2019 to 2020: a data-driven analysis in the early phase of the outbreak". <i>International Journal of Infectious Diseases</i> , 2022, 115, 70-71.	3.3	2
105	A re-analysis to identify the structural breaks in COVID-19 transmissibility during the early phase of the outbreak in South Korea. <i>International Journal of Infectious Diseases</i> , 2020, 100, 10-11.	3.3	1
106	Preliminary estimation of the novel coronavirus disease (COVID-19) cases in Iran: A reply to Sharifi. <i>International Journal of Infectious Diseases</i> , 2020, 95, 429-430.	3.3	1
107	Changes in renal failure mortality during the COVID-19 pandemic in the United States. <i>Journal of Nephrology</i> , 2021, 34, 2167-2170.	2.0	1
108	Shrinkage in serial intervals across transmission generations of COVID-19. <i>Journal of Theoretical Biology</i> , 2021, 529, 110861.	1.7	1

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109	How Transportation Restriction Shapes the Relationship Between Ambient Nitrogen Dioxide and COVID-19 Transmissibility: An Exploratory Analysis. <i>Frontiers in Public Health</i> , 2021, 9, 697491.	2.7	0