Gerardo Chowell

List of Publications by Year
in descending order

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232	16,111	24978	24179
papers	citations	57 h-index	110 g-index

277	277	277	19601
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Estimating the asymptomatic proportion of coronavirus disease 2019 (COVID-19) cases on board the Diamond Princess cruise ship, Yokohama, Japan, 2020. Eurosurveillance, 2020, 25, .	3.9	1,890
2	Severe Respiratory Disease Concurrent with the Circulation of H1N1 Influenza. New England Journal of Medicine, 2009, 361, 674-679.	13.9	631
3	Transmission potential and severity of COVID-19 in South Korea. International Journal of Infectious Diseases, 2020, 93, 339-344.	1.5	561
4	The basic reproductive number of Ebola and the effects of public health measures: the cases of Congo and Uganda. Journal of Theoretical Biology, 2004, 229, 119-126.	0.8	466
5	Physical distancing interventions and incidence of coronavirus disease 2019: natural experiment in 149 countries. BMJ, The, 2020, 370, m2743.	3.0	427
6	Transmission characteristics of MERS and SARS in the healthcare setting: a comparative study. BMC Medicine, 2015, 13, 210.	2.3	384
7	Adaptive human behavior in epidemiological models. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6306-6311.	3.3	351
8	Transmission dynamics and control of Ebola virus disease (EVD): a review. BMC Medicine, 2014, 12, 196.	2.3	300
9	Mathematical models to characterize early epidemic growth: A review. Physics of Life Reviews, 2016, 18, 66-97.	1.5	297
10	Comparative estimation of the reproduction number for pandemic influenza from daily case notification data. Journal of the Royal Society Interface, 2007, 4, 155-166.	1.5	279
11	Fitting dynamic models to epidemic outbreaks with quantified uncertainty: A primer for parameter uncertainty, identifiability, and forecasts. Infectious Disease Modelling, 2017, 2, 379-398.	1.2	273
12	Prevention and Control of Zika as a Mosquito-Borne and Sexually Transmitted Disease: A Mathematical Modeling Analysis. Scientific Reports, 2016, 6, 28070.	1.6	250
13	SARS outbreaks in Ontario, Hong Kong and Singapore: the role of diagnosis and isolation as a control mechanism. Journal of Theoretical Biology, 2003, 224, 1-8.	0.8	239
14	A generalized-growth model to characterize the early ascending phase of infectious disease outbreaks. Epidemics, 2016, 15, 27-37.	1.5	237
15	Transmission dynamics of the great influenza pandemic of 1918 in Geneva, Switzerland: Assessing the effects of hypothetical interventions. Journal of Theoretical Biology, 2006, 241, 193-204.	0.8	230
16	Transmission potential of the novel coronavirus (COVID-19) onboard the diamond Princess Cruises Ship, 2020. Infectious Disease Modelling, 2020, 5, 264-270.	1.2	222
17	Characterizing the Epidemiology of the 2009 Influenza A/H1N1 Pandemic in Mexico. PLoS Medicine, 2011, 8, e1000436.	3.9	200
18	Model Parameters and Outbreak Control for SARS. Emerging Infectious Diseases, 2004, 10, 1258-1263.	2.0	195

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19	The RAPIDD ebola forecasting challenge: Synthesis and lessons learnt. Epidemics, 2018, 22, 13-21.	1.5	185
20	The Effective Reproduction Number as a Prelude to Statistical Estimation of Time-Dependent Epidemic Trends. , 2009, , 103-121.		176
21	Short-term Forecasts of the COVID-19 Epidemic in Guangdong and Zhejiang, China: February 13â€“23, 2020. Journal of Clinical Medicine, 2020, 9, 596.	1.0	174
22	Estimation of the reproduction number of dengue fever from spatial epidemic data. Mathematical Biosciences, 2007, 208, 571-589.	0.9	173
23	Pros and cons of estimating the reproduction number from early epidemic growth rate of influenza A (H1N1) 2009. Theoretical Biology and Medical Modelling, 2010, 7, 1.	2.1	171
24	Global Mortality Impact of the 1957â€“1959 Influenza Pandemic. Journal of Infectious Diseases, 2016, 213, 738-745.	1.9	166
25	Estimating Risk for Death from Coronavirus Disease, China, Januaryâ€“February 2020. Emerging Infectious Diseases, 2020, 26, 1251-1256.	2.0	166
26	A Large-Scale COVID-19 Twitter Chatter Dataset for Open Scientific Researchâ€”An International Collaboration. Epidemiologia, 2021, 2, 315-324.	1.1	163
27	Dynamic prioritization of COVID-19 vaccines when social distancing is limited for essential workers. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	149
28	The 1918â€“1919 influenza pandemic in England and Wales: spatial patterns in transmissibility and mortality impact. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 501-509.	1.2	136
29	Prior dengue virus infection and risk of Zika: A pediatric cohort in Nicaragua. PLoS Medicine, 2019, 16, e1002726.	3.9	130
30	Using phenomenological models for forecasting the 2015 Ebola challenge. Epidemics, 2018, 22, 62-70.	1.5	129
31	Using Phenomenological Models to Characterize Transmissibility and Forecast Patterns and Final Burden of Zika Epidemics. PLOS Currents, 2016, 8, .	1.4	123
32	Changes in testing rates could mask the novel coronavirus disease (COVID-19) growth rate. International Journal of Infectious Diseases, 2020, 94, 116-118.	1.5	112
33	Synthesizing data and models for the spread of MERS-CoV, 2013: Key role of index cases and hospital transmission. Epidemics, 2014, 9, 40-51.	1.5	110
34	A novel sub-epidemic modeling framework for short-term forecasting epidemic waves. BMC Medicine, 2019, 17, 164.	2.3	110
35	Assessing parameter identifiability in compartmental dynamic models using a computational approach: application to infectious disease transmission models. Theoretical Biology and Medical Modelling, 2019, 16, 1.	2.1	104
36	Optimal control for pandemic influenza: The role of limited antiviral treatment and isolation. Journal of Theoretical Biology, 2010, 265, 136-150.	0.8	102

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37	Skip the Trip: Air Travelers' Behavioral Responses to Pandemic Influenza. PLoS ONE, 2013, 8, e58249.	1.1	102
38	Characterizing the reproduction number of epidemics with early subexponential growth dynamics. Journal of the Royal Society Interface, 2016, 13, 20160659.	1.5	101
39	The COVID-19 pandemic in the USA: what might we expect?. Lancet, The, 2020, 395, 1093-1094.	6.3	96
40	Mortality Burden of the A/H1N1 Pandemic in Mexico: A Comparison of Deaths and Years of Life Lost to Seasonal Influenza. Clinical Infectious Diseases, 2011, 53, 985-993.	2.9	95
41	Assessing the role of basic control measures, antivirals and vaccine in curtailing pandemic influenza: scenarios for the US, UK and the Netherlands. Journal of the Royal Society Interface, 2007, 4, 505-521.	1.5	94
42	Heat-Related Deaths in Hot Cities: Estimates of Human Tolerance to High Temperature Thresholds. International Journal of Environmental Research and Public Health, 2014, 11, 3304-3326.	1.2	92
43	Merging Economics and Epidemiology to Improve the Prediction and Management of Infectious Disease. EcoHealth, 2014, 11, 464-475.	0.9	87
44	The Western Africa Ebola Virus Disease Epidemic Exhibits Both Global Exponential and Local Polynomial Growth Rates. PLOS Currents, 2015, 7, .	1.4	84
45	A dynamic compartmental model for the Middle East respiratory syndrome outbreak in the Republic of Korea: A retrospective analysis on control interventions and superspreading events. Journal of Theoretical Biology, 2016, 408, 118-126.	0.8	82
46	Real-time monitoring the transmission potential of COVID-19 in Singapore, March 2020. BMC Medicine, 2020, 18, 166.	2.3	82
47	Multiple Trigger Points for Quantifying Heat-Health Impacts: New Evidence from a Hot Climate. Environmental Health Perspectives, 2016, 124, 176-183.	2.8	77
48	Doubling Time of the COVID-19 Epidemic by Province, China. Emerging Infectious Diseases, 2020, 26, 1912-1914.	2.0	76
49	Social inequality and the syndemic of chronic disease and COVID-19: county-level analysis in the USA. Journal of Epidemiology and Community Health, 2021, 75, 496-500.	2.0	76
50	Modeling Optimal Age-Specific Vaccination Strategies Against Pandemic Influenza. Bulletin of Mathematical Biology, 2012, 74, 958-980.	0.9	75
51	Does Glycosylation as a modifier of Original Antigenic Sin explain the case age distribution and unusual toxicity in pandemic novel H1N1 influenza?. BMC Infectious Diseases, 2010, 10, 5.	1.3	74
52	COVID-19 case fatality risk by age and gender in a high testing setting in Latin America: Chile, Marchâ€“August 2020. Infectious Diseases of Poverty, 2021, 10, 11.	1.5	74
53	Urbanization prolongs hantavirus epidemics in cities. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4707-4712.	3.3	72
54	Mortality Patterns Associated with the 1918 Influenza Pandemic in Mexico: Evidence for a Spring Herald Wave and Lack of Preexisting Immunity in Older Populations. Journal of Infectious Diseases, 2010, 202, 567-575.	1.9	71

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55	A review and agenda for integrated disease models including social and behavioural factors. Nature Human Behaviour, 2021, 5, 834-846.	6.2	71
56	The influence of geographic and climate factors on the timing of dengue epidemics in PerÃº, 1994-2008. BMC Infectious Diseases, 2011, 11, 164.	1.3	70
57	Spatial and temporal dynamics of dengue fever in Peru: 1994â€“2006. Epidemiology and Infection, 2008, 136, 1667-1677.	1.0	65
58	Epidemiological and clinical characteristics of scorpionism in Colima, Mexico (2000â€“2001). Toxicon, 2006, 47, 753-758.	0.8	63
59	Perspectives on model forecasts of the 2014â€“2015 Ebola epidemic in West Africa: lessons and the way forward. BMC Medicine, 2017, 15, 42.	2.3	63
60	Is West Africa Approaching a Catastrophic Phase or is the 2014 Ebola Epidemic Slowing Down? Different Models Yield Different Answers for Liberia. PLOS Currents, 2014, 6, .	1.4	62
61	Rurality and pandemic influenza: geographic heterogeneity in the risks of infection and death in Kanagawa, Japan (1918-1919). New Zealand Medical Journal, 2008, 121, 18-27.	0.5	61
62	Adaptive Vaccination Strategies to Mitigate Pandemic Influenza: Mexico as a Case Study. PLoS ONE, 2009, 4, e8164.	1.1	60
63	Climate-based descriptive models of dengue fever: the 2002 epidemic in Colima, Mexico. Journal of Environmental Health, 2006, 68, 40-4, 55.	0.5	58
64	Transmission dynamics and underreporting of Kala-azar in the Indian state of Bihar. Journal of Theoretical Biology, 2010, 262, 177-185.	0.8	57
65	A review of the 1918 herald pandemic wave: importance for contemporary pandemic response strategies. Annals of Epidemiology, 2018, 28, 281-288.	0.9	57
66	Null models for community detection in spatially embedded, temporal networks. Journal of Complex Networks, 2016, 4, 363-406.	1.1	56
67	Early epidemiological assessment of the transmission potential and virulence of coronavirus disease 2019 (COVID-19) in Wuhan City, China, Januaryâ€“February, 2020. BMC Medicine, 2020, 18, 217.	2.3	55
68	Early transmission dynamics of COVID-19 in a southern hemisphere setting: Lima-Peru: February 29thâ€“March 30th, 2020. Infectious Disease Modelling, 2020, 5, 338-345.	1.2	55
69	Scales of perception: public awareness of regional and neighborhood climates. Climatic Change, 2012, 111, 581-607.	1.7	54
70	The ideal reporting interval for an epidemic to objectively interpret the epidemiological time course. Journal of the Royal Society Interface, 2010, 7, 297-307.	1.5	53
71	Rubella metapopulation dynamics and importance of spatial coupling to the risk of congenital rubella syndrome in Peru. Journal of the Royal Society Interface, 2011, 8, 369-376.	1.5	52
72	Risk of death by age and gender from CoVID-19 in Peru, March-May, 2020. Aging, 2020, 12, 13869-13881.	1.4	52

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73	Quantifying the transmission potential of pandemic influenza. Physics of Life Reviews, 2008, 5, 50-77.	1.5	48
74	A dynamic modeling tool for estimating healthcare demand from the COVID19 epidemic and evaluating population-wide interventions. International Journal of Infectious Diseases, 2020, 96, 376-383.	1.5	48
75	Quantitative Methods for Investigating Infectious Disease Outbreaks. Texts in Applied Mathematics, 2019, , .	0.4	48
76	Influenza-Related Mortality Trends in Japanese and American Seniors: Evidence for the Indirect Mortality Benefits of Vaccinating Schoolchildren. PLoS ONE, 2011, 6, e26282.	1.1	48
77	The influence of climatic conditions on the transmission dynamics of the 2009 A/H1N1 influenza pandemic in Chile. BMC Infectious Diseases, 2012, 12, 298.	1.3	47
78	A Population Based Study of Seasonality of Skin and Soft Tissue Infections: Implications for the Spread of CA-MRSA. PLoS ONE, 2013, 8, e60872.	1.1	47
79	Asymptomatic Transmission and the Dynamics of Zika Infection. Scientific Reports, 2017, 7, 5829.	1.6	47
80	Forecasting the 2001 Foot-and-Mouth Disease Epidemic in the UK. EcoHealth, 2018, 15, 338-347.	0.9	46
81	The spatial and temporal patterns of falciparum and vivax malaria in PerÃº: 1994â€“2006. Malaria Journal, 2009, 8, 142.	0.8	45
82	Forecasting Epidemics Through Nonparametric Estimation of Time-Dependent Transmission Rates Using the SEIR Model. Bulletin of Mathematical Biology, 2019, 81, 4343-4365.	0.9	45
83	Transmission potential of influenza A/H7N9, February to May 2013, China. BMC Medicine, 2013, 11, 214.	2.3	44
84	Mechanistic modelling of the large-scale Lassa fever epidemics in Nigeria from 2016 to 2019. Journal of Theoretical Biology, 2020, 493, 110209.	0.8	44
85	Qualitative analysis of the level of cross-protection between epidemic waves of the 1918â€“1919 influenza pandemic. Journal of Theoretical Biology, 2009, 261, 584-592.	0.8	43
86	Accounting for behavioral responses during a flu epidemic using home television viewing. BMC Infectious Diseases, 2015, 15, 21.	1.3	43
87	Social Media Use in Emergency Response to Natural Disasters: A Systematic Review With a Public Health Perspective. Disaster Medicine and Public Health Preparedness, 2020, 14, 139-149.	0.7	43
88	Spatial and Temporal Characteristics of the 2009 A/H1N1 Influenza Pandemic in Peru. PLoS ONE, 2011, 6, e21287.	1.1	43
89	Estimating the risk of Middle East respiratory syndrome (MERS) death during the course of the outbreak in the Republic of Korea, 2015. International Journal of Infectious Diseases, 2015, 39, 7-9.	1.5	42
90	Spatial-temporal excess mortality patterns of the 1918â€“1919 influenza pandemic in Spain. BMC Infectious Diseases, 2014, 14, 371.	1.3	41

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91	The reproduction number of seasonal influenza epidemics in Brazil, 1996â€“2006. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 1857-1866.	1.2	40
92	Death Patterns during the 1918 Influenza Pandemic in Chile. Emerging Infectious Diseases, 2014, 20, 1803-1811.	2.0	40
93	Characterizing Ebola Transmission Patterns Based on Internet News Reports. Clinical Infectious Diseases, 2016, 62, 24-31.	2.9	40
94	Severe Acute Respiratory Syndrome Coronavirus 2 Transmission Potential, Iran, 2020. Emerging Infectious Diseases, 2020, 26, 1915-1917.	2.0	39
95	Comparative analysis of phenomenological growth models applied to epidemic outbreaks. Mathematical Biosciences and Engineering, 2019, 16, 4250-4273.	1.0	39
96	Lessons from Nigeria: the role of roads in the geo-temporal progression of avian influenza (H5N1) virus. Epidemiology and Infection, 2010, 138, 192-198.	1.0	38
97	Ebola control: rapid diagnostic testing. Lancet Infectious Diseases, The, 2015, 15, 147-148.	4.6	38
98	Predicting the international spread of Middle East respiratory syndrome (MERS). BMC Infectious Diseases, 2016, 16, 356.	1.3	38
99	Real-time characterization of risks of death associated with the Middle East respiratory syndrome (MERS) in the Republic of Korea, 2015. BMC Medicine, 2015, 13, 228.	2.3	37
100	Identifying determinants of heterogeneous transmission dynamics of the Middle East respiratory syndrome (MERS) outbreak in the Republic of Korea, 2015: a retrospective epidemiological analysis. BMJ Open, 2016, 6, e009936.	0.8	37
101	Predicting scorpion sting incidence in an endemic region using climatological variables *. International Journal of Environmental Health Research, 2005, 15, 425-435.	1.3	36
102	Estimating the subcritical transmissibility of the Zika outbreak in the State of Florida, USA, 2016. Theoretical Biology and Medical Modelling, 2016, 13, 20.	2.1	36
103	Protecting residential care facilities from pandemic influenza. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10625-10630.	3.3	35
104	Characterizing the Transmission Dynamics and Control of Ebola Virus Disease. PLoS Biology, 2015, 13, e1002057.	2.6	35
105	Modeling household and community transmission of Ebola virus disease: Epidemic growth, spatial dynamics and insights for epidemic control. Virulence, 2016, 7, 163-173.	1.8	35
106	Transmission dynamics and control of COVID-19 in Chile, March-October, 2020. PLoS Neglected Tropical Diseases, 2021, 15, e0009070.	1.3	35
107	Epidemiological Characterization of a Fourth Wave of Pandemic A/H1N1 Influenza in Mexico, Winter 2011â€“2012: Age Shift and Severity. Archives of Medical Research, 2012, 43, 563-570.	1.5	34
108	Effect of a wet market on coronavirus disease (COVID-19) transmission dynamics in China, 2019â€“2020. International Journal of Infectious Diseases, 2020, 97, 96-101.	1.5	34

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109	Transmission potential of modified measles during an outbreak, Japan, Marchâ€'May 2018. Eurosurveillance, 2018, 23, .	3.9	33
110	Epidemiological Characteristics and Underlying Risk Factors for Mortality during the Autumn 2009 Pandemic Wave in Mexico. PLoS ONE, 2012, 7, e41069.	1.1	32
111	Characterizing all-cause excess mortality patterns during COVID-19 pandemic in Mexico. BMC Infectious Diseases, 2021, 21, 432.	1.3	32
112	The 1918â€"19 Influenza Pandemic in BoyacÃ¡, Colombia. Emerging Infectious Diseases, 2012, 18, 48-56.	2.0	31
113	Estimating the Risk of COVID-19 Death during the Course of the Outbreak in Korea, Februaryâ€"May 2020. Journal of Clinical Medicine, 2020, 9, 1641.	1.0	31
114	Climate change and influenza: the likelihood of early and severe influenza seasons following warmer than average winters. PLOS Currents, 2013, 5, .	1.4	31
115	The role of spatial mixing in the spread of foot-and-mouth disease. Preventive Veterinary Medicine, 2006, 73, 297-314.	0.7	30
116	The age distribution of mortality due to influenza: pandemic and peri-pandemic. BMC Medicine, 2012, 10, 162.	2.3	30
117	Severe Fever with Thrombocytopenia Syndrome Virus in Humans, Domesticated Animals, Ticks, and Mosquitoes, Shaanxi Province, China. American Journal of Tropical Medicine and Hygiene, 2017, 96, 1346-1349.	0.6	30
118	Is it growing exponentially fast? â€" Impact of assuming exponential growth for characterizing and forecasting epidemics with initial near-exponential growth dynamics. Infectious Disease Modelling, 2016, 1, 71-78.	1.2	29
119	Excess mortality patterns during 1918â€"1921 influenza pandemic in the state of Arizona, USA. Annals of Epidemiology, 2018, 28, 273-280.	0.9	29
120	Differences in Transmission and Disease Severity Between 2 Successive Waves of Chikungunya. Clinical Infectious Diseases, 2018, 67, 1760-1767.	2.9	29
121	Estimating the reproduction number from the initial phase of the Spanish flu pandemic waves in Geneva, Switzerland. Mathematical Biosciences and Engineering, 2007, 4, 457-470.	1.0	29
122	Influenza and Pneumonia Mortality in 66 Large Cities in the United States in Years Surrounding the 1918 Pandemic. PLoS ONE, 2011, 6, e23467.	1.1	28
123	Exploring optimal control strategies in seasonally varying flu-like epidemics. Journal of Theoretical Biology, 2017, 412, 36-47.	0.8	28
124	Substantial Morbidity and Mortality Associated with Pandemic A/H1N1 Influenza in Mexico, Winter 2013-2014: Gradual Age Shift and Severity. PLOS Currents, 2014, 6, .	1.4	27
125	Did Modeling Overestimate the Transmission Potential of Pandemic (H1N1-2009)? Sample Size Estimation for Post-Epidemic Seroepidemiological Studies. PLoS ONE, 2011, 6, e17908.	1.1	27
126	The basic reproduction number R_0 and effectiveness of reactive interventions during dengue epidemics: The 2002 dengue outbreak in Easter Island, Chile. Mathematical Biosciences and Engineering, 2013, 10, 1455-1474.	1.0	26

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127	Model estimates of the burden of outpatient visits attributable to influenza in the United States. BMC Infectious Diseases, 2016, 16, 641.	1.3	26
128	Modeling rapidly disseminating infectious disease during mass gatherings. BMC Medicine, 2012, 10, 159.	2.3	25
129	Theoretical perspectives on the infectiousness of Ebola virus disease. Theoretical Biology and Medical Modelling, 2015, 12, 1.	2.1	25
130	The Basic Reproduction Number of Infectious Diseases: Computation and Estimation Using Compartmental Epidemic Models. , 2009, , 1-30.		25
131	Modelling the transmission dynamics of acute haemorrhagic conjunctivitis: application to the 2003 outbreak in Mexico. Statistics in Medicine, 2006, 25, 1840-1857.	0.8	24
132	Age-Specific Excess Mortality Patterns During the 1918â€“1920 Influenza Pandemic in Madrid, Spain. American Journal of Epidemiology, 2018, 187, 2511-2523.	1.6	24
133	On the role of cross-immunity and vaccines on the survival of less fit flu-strains. Theoretical Population Biology, 2007, 71, 20-29.	0.5	23
134	Evaluating the potential impact of targeted vaccination strategies against severe acute respiratory syndrome coronavirus (SARS-CoV) and Middle East respiratory syndrome coronavirus (MERS-CoV) outbreaks in the healthcare setting. Theoretical Biology and Medical Modelling, 2019, 16, 16.	2.1	23
135	Spatial variability in reproduction number and doubling time across two waves of the COVID-19 pandemic in South Korea, February to July, 2020. International Journal of Infectious Diseases, 2021, 102, 1-9.	1.5	23
136	The Role of Vaccination in the Control of SARS. Mathematical Biosciences and Engineering, 2005, 2, 753-769.	1.0	23
137	Impact of antiviral treatment and hospital admission delay on risk of death associated with 2009 A/H1N1 pandemic influenza in Mexico. BMC Infectious Diseases, 2012, 12, 97.	1.3	22
138	Natality Decline and Spatial Variation in Excess Death Rates During the 1918â€“1920 Influenza Pandemic in Arizona, United States. American Journal of Epidemiology, 2018, 187, 2577-2584.	1.6	22
139	Comparative assessment of parameter estimation methods in the presence of overdispersion: a simulation study. Mathematical Biosciences and Engineering, 2019, 16, 4299-4313.	1.0	22
140	A Data-Driven Mathematical Model of CA-MRSA Transmission among Age Groups: Evaluating the Effect of Control Interventions. PLoS Computational Biology, 2013, 9, e1003328.	1.5	21
141	Recrudescent wave of pandemic A/H1N1 influenza in Mexico, winter 2011-2012: Age shift and severity. PLOS Currents, 2012, 4, RRN1306.	1.4	21
142	Impact of weekday social contact patterns on the modeling of influenza transmission, and determination of the influenza latent period. Journal of Theoretical Biology, 2012, 312, 87-95.	0.8	20
143	Impact of School Cycles and Environmental Forcing on the Timing of Pandemic Influenza Activity in Mexican States, May-December 2009. PLoS Computational Biology, 2015, 11, e1004337.	1.5	20
144	epiDMS: Data Management and Analytics for Decision-Making From Epidemic Spread Simulation Ensembles. Journal of Infectious Diseases, 2016, 214, S427-S432.	1.9	20

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145	Elucidating Transmission Patterns From Internet Reports: Ebola and Middle East Respiratory Syndrome as Case Studies. Journal of Infectious Diseases, 2016, 214, S421-S426.	1.9	20
146	Assessing the potential impact of vector-borne disease transmission following heavy rainfall events: a mathematical framework. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180272.	1.8	20
147	Pediatric electrocardiograph abnormalities following Centruroides limpidus tecomanus scorpion envenomation. Toxicon, 2005, 45, 27-31.	0.8	19
148	The RAPIDD Ebola forecasting challenge: Model description and synthetic data generation. Epidemics, 2018, 22, 3-12.	1.5	19
149	Changes in the Viral Distribution Pattern after the Appearance of the Novel Influenza A H1N1 (pH1N1) Virus in Influenza-Like Illness Patients in Peru. PLoS ONE, 2010, 5, e11719.	1.1	19
150	Signatures of non-homogeneous mixing in disease outbreaks. Mathematical and Computer Modelling, 2008, 48, 122-140.	2.0	18
151	A primer on stable parameter estimation and forecasting in epidemiology by a problem-oriented regularized least squares algorithm. Infectious Disease Modelling, 2017, 2, 268-275.	1.2	18
152	The first human infection with severe fever with thrombocytopenia syndrome virus in Shaanxi Province, China. International Journal of Infectious Diseases, 2015, 35, 37-39.	1.5	17
153	Age-specific excess mortality patterns and transmissibility during the 1889â€“1890 influenza pandemic in Madrid, Spain. Annals of Epidemiology, 2018, 28, 267-272.	0.9	17
154	Pandemic influenza and socioeconomic disparities: Lessons from 1918 Chicago. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13557-13559.	3.3	16
155	Fogarty International Center collaborative networks in infectious disease modeling: Lessons learnt in research and capacity building. Epidemics, 2019, 26, 116-127.	1.5	16
156	Multi-model forecasts of the ongoing Ebola epidemic in the Democratic Republic of Congo, Marchâ€“October 2019. Journal of the Royal Society Interface, 2020, 17, 20200447.	1.5	16
157	Ensemble bootstrap methodology for forecasting dynamic growth processes using differential equations: application to epidemic outbreaks. BMC Medical Research Methodology, 2021, 21, 34.	1.4	16
158	Towards Real Time Epidemiology: Data Assimilation, Modeling and Anomaly Detection of Health Surveillance Data Streams. Lecture Notes in Computer Science, 2007, , 79-90.	1.0	16
159	Time-Specific Ecologic Niche Models Forecast the Risk of Hemorrhagic Fever with Renal Syndrome in Dongting Lake District, China, 2005â€“2010. PLoS ONE, 2014, 9, e106839.	1.1	15
160	Vaccination strategies to control Ebola epidemics in the context of variable household inaccessibility levels. PLoS Neglected Tropical Diseases, 2019, 13, e0007814.	1.3	15
161	Geospatial Variability in Excess Death Rates during the COVID-19 Pandemic in Mexico: Examining Socio Demographic, Climate and Population Health Characteristics. International Journal of Infectious Diseases, 2021, 113, 347-354.	1.5	15
162	The need for interdisciplinary studies of historic pandemics. Vaccine, 2011, 29, B1-B5.	1.7	14

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163	Intense Seasonal A/H1N1 Influenza in Mexico, Winter 2013â€“2014. Archives of Medical Research, 2015, 46, 63-70.	1.5	14
164	Mortality and transmissibility patterns of the 1957 influenza pandemic in Maricopa County, Arizona. BMC Infectious Diseases, 2016, 16, 405.	1.3	14
165	Identification of case clusters and counties with high infective connectivity in the 2001 epidemic of foot-and-mouth disease in Uruguay. American Journal of Veterinary Research, 2006, 67, 102-113.	0.3	13
166	Assessing the impact of public health interventions on the transmission of pandemic <scp>H</scp>1<scp>N</scp>1 influenza a virus aboard a Peruvian navy ship. Influenza and Other Respiratory Viruses, 2014, 8, 353-359.	1.5	13
167	Numerical solution of a spatio-temporal gender-structured model for hantavirus infection in rodents. Mathematical Biosciences and Engineering, 2017, 15, 95-123.	1.0	13
168	Parameter identifiability and optimal control of an SARS-CoV-2 model early in the pandemic. Journal of Biological Dynamics, 2022, 16, 412-438.	0.8	12
169	Mathematical Assessment of Canadaâ€™s Pandemic Influenza Preparedness Plan. Canadian Journal of Infectious Diseases and Medical Microbiology, 2008, 19, 185-192.	0.7	11
170	A DETERMINISTIC METHODOLOGY FOR ESTIMATION OF PARAMETERS IN DYNAMIC MARKOV CHAIN MODELS. Journal of Biological Systems, 2011, 19, 71-100.	0.5	11
171	Transmission dynamics and forecasts of the COVID-19 pandemic in Mexico, March-December 2020. PLoS ONE, 2021, 16, e0254826.	1.1	11
172	Temporary Fertility Decline after Large Rubella Outbreak, Japan. Emerging Infectious Diseases, 2020, 26, 1122-1129.	2.0	11
173	Urban structure and the risk of influenza A (H1N1) outbreaks in municipal districts. Science Bulletin, 2014, 59, 554-562.	1.7	10
174	Assessing Early Heterogeneity in Doubling Times of the COVID-19 Epidemic across Prefectures in Mainland China, Januaryâ€“February, 2020. Epidemiologia, 2021, 2, 95-113.	1.1	10
175	Investigating the first stage of the COVID-19 pandemic in Ukraine using epidemiological and genomic data. Infection, Genetics and Evolution, 2021, 95, 105087.	1.0	10
176	Spatial variability in the reproduction number of Ebola virus disease, Democratic Republic of the Congo, Januaryâ€“September 2019. Eurosurveillance, 2019, 24, .	3.9	10
177	Modelling the spatial-temporal progression of the 2009 A/H1N1 influenza pandemic in Chile. Mathematical Biosciences and Engineering, 2016, 13, 43-65.	1.0	10
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