Mathematical modeling of the COVID-19 pandemic with

Results in Physics
25, 104285
DOI: 10.1016/j.rinp.2021.104285

Citation Report

#	Article	IF	Citations
1	Modelling lockdown measures in epidemic outbreaks using selective socio-economic containment with uncertainty. Mathematical Biosciences and Engineering, 2021, 18, 7161-7190.	1.9	11
2	Analysis of a COVID-19 compartmental model: a mathematical and computational approach. Mathematical Biosciences and Engineering, 2021, 18, 7979-7998.	1.9	7
3	Evidence for Complex Fixed Points in Pandemic Data. Frontiers in Applied Mathematics and Statistics, 2021, 7, .	1.3	9
4	A case study of 2019-nCOV cases in Argentina with the real data based on daily cases from March 03, 2020 to March 29, 2021 using classical and fractional derivatives. Advances in Difference Equations, 2021, 2021, 341.	3.5	14
6	COVID-19 Critical Care Simulations: An International Cross-Sectional Survey. Frontiers in Public Health, 2021, 9, 700769.	2.7	4
7	Dynamics of coronavirus pandemic: effects of community awareness and global information campaigns. European Physical Journal Plus, 2021, 136, 994.	2.6	63
8	Estimation and optimal control of the multiscale dynamics of Covid-19: a case study from Cameroon. Nonlinear Dynamics, 2021, 106, 2703-2738.	5.2	3
9	A mathematical model for human-to-human transmission of COVID-19: a case study for Turkey's data. Mathematical Biosciences and Engineering, 2021, 18, 9787-9805.	1.9	0
10	A dynamical map to describe COVID-19 epidemics. European Physical Journal: Special Topics, 2022, 231, 893-904.	2.6	5
11	The Impact of Disease Control Measures on the Spread of COVID-19 in the Province of Sindh, Pakistan. PLoS ONE, 2021, 16, e0260129.	2.5	1
12	Mathematical assessment of constant and time-dependent control measures on the dynamics of the novel coronavirus: An application of optimal control theory. Results in Physics, 2021, 31, 104971.	4.1	7
13	COVID-19 severity determinants inferred through ecological and epidemiological modeling. One Health, 2021, 13, 100355.	3.4	9
14	A Hybridized Stochastic SIR-VasiÄek Model in Evaluating a Pandemic Emergency Financing Facility. IEEE Transactions on Computational Social Systems, 2023, 10, 1105-1114.	4.4	6
15	Modeling the dynamics of COVID-19 pandemic with implementation of intervention strategies. European Physical Journal Plus, 2022, 137, 129.	2.6	34
16	Optimal control analysis of COVID-19 vaccine epidemic model: a case study. European Physical Journal Plus, 2022, 137, 156.	2.6	22
17	Evaluating the Impact of SARS-CoV-2 Variants on the COVID-19 Epidemic and Social Restoration in the United States: A Mathematical Modelling Study. Frontiers in Public Health, 2021, 9, 801763.	2.7	9
18	A Continuous Markov-Chain Model for the Simulation of COVID-19 Epidemic Dynamics. Biology, 2022, 11, 190.	2.8	16
19	A delayed plant disease model with Caputo fractional derivatives. , 2022, 2022, 11.		24

#	Article	IF	Citations
20	A new mathematical model of multi-faced COVID-19 formulated by fractional derivative chains. , 2022, 2022, 6.		9
21	Mathematical modeling and optimal intervention strategies of the COVID-19 outbreak. Nonlinear Dynamics, 2022, 109, 177-202.	5.2	44
23	A global report on the dynamics of COVID-19 with quarantine and hospitalization: A fractional order model with non-local kernel. Computational Biology and Chemistry, 2022, 98, 107645.	2.3	27
24	Mathematical Analysis of Optimal Cost-Effective Control of COVID-19: A Case Study. , 2021, , .		0
25	Effects of greenhouse gases and hypoxia on the population of aquatic species: a fractional mathematical model. , 2022, 2022, 31.		4
26	Modelling the Impact of Media-Induced Social Distancing on the Containment of COVID-19 in Beijing. Discrete Dynamics in Nature and Society, 2022, 2022, 1-17.	0.9	0
27	Understanding Dynamics of Pandemic Models to Support Predictions of COVID-19 Transmission: Parameter Sensitivity Analysis of SIR-Type Models. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2458-2468.	6.3	9
28	Mathematical COVID-19 model with vaccination: a case study in Saudi Arabia. PeerJ Computer Science, 0, 8, e959.	4.5	10
29	Loss of Livelihood, Wages, and Employment During the COVID-19 Pandemic in Selected Districts of Chhattisgarh in India, and Its Impact on Food Insecurity and Hunger. Frontiers in Public Health, 2022, 10, .	2.7	4
30	Stability analysis and numerical simulations of the fractional COVID-19 pandemic model. International Journal of Nonlinear Sciences and Numerical Simulation, 2023, 24, 989-1002.	1.0	13
31	The COVID-19 pandemic as inspiration to reconsider epidemic models: A novel approach to spatially homogeneous epidemic spread modeling. Mathematical Biosciences and Engineering, 2022, 19, 9853-9886.	1.9	0
32	Modified SIR model for COVID-19 transmission dynamics: Simulation with case study of UK, US and India. Results in Physics, 2022, , 105855.	4.1	5
33	Anti-Spike and Neutralizing Antibodies after Two Doses of COVID-19 Sinopharm/BIBP Vaccine. Vaccines, 2022, 10, 1340.	4.4	8
34	How do the contaminated environment influence the transmission dynamics of COVID-19 pandemic?. European Physical Journal: Special Topics, 2022, 231, 3697-3716.	2.6	14
35	The economic impact of COVID-19 interventions: A mathematical modeling approach. Frontiers in Public Health, 0, 10, .	2.7	4
36	A Fractional Order SITR Model for Forecasting of Transmission of COVID-19: Sensitivity Statistical Analysis. , 2022, 16, 517-536.		9
37	Dynamic Analysis of an HIV Model Incorporating Cytotoxic T Lymphocytes and Vectored Immunoprophylaxis. Journal of Mathematics, 2022, 2022, 1-13.	1.0	0
38	Quantifying the dynamic transmission of COVID-19 asymptomatic and symptomatic infections: Evidence from four Chinese regions. Frontiers in Public Health, 0, 10, .	2.7	3

#	Article	IF	Citations
39	Optimal control strategies to combat COVID-19 transmission: A mathematical model with incubation time delay. Results in Control and Optimization, 2022, 9, 100176.	2.3	2
40	Place of distancing measures in containing epidemics: a scoping review. Libyan Journal of Medicine, 2022, 17, .	1.6	0
41	Time-delayed modelling of the COVID-19 dynamics with a convex incidence rate. Informatics in Medicine Unlocked, 2022, 35, 101124.	3.4	15
42	Application of big data and artificial intelligence in epidemic surveillance and containment. Intelligent Medicine, 2023, 3, 36-43.	3.1	4
43	Clinical effects of 2-DG drug restraining SARS-CoV-2 infection: A fractional order optimal control study. Journal of Biological Physics, 2022, 48, 415-438.	1.5	1
44	Effect of vaccination on the case fatality rate for COVID-19 infections 2020â€“2021: multivariate modelling of data from the US Department of Veterans Affairs. BMJ Open, 2022, 12, e064135.	1.9	2
45	An algorithm to estimate the real time secondary infections in sub-urban bus travel: COVID-19 epidemic experience at Chennai Metropolitan city India. VirusDisease, 2023, 34, 39-49.	2.0	0
46	Optimal control analysis of a COVID-19 model. , 2023, 31, .		7
47	Optimal Control Strategies of COVID-19 Dynamics Model. Journal of Mathematics, 2023, 2023, 1-20.	1.0	6
48	Global stability analysis of a COVID-19 epidemic model with incubation delay. Mathematical Modelling and Control, 2023, 3, 23-38.	0.9	1
49	A Novel Mathematical Model That Predicts the Protection Time of SARS-CoV-2 Antibodies. Viruses, 2023, 15, 586.	3.3	7
50	Optimal COVID-19 testing strategy on limited resources. PLoS ONE, 2023, 18, e0281319.	2.5	1
51	Modeling the influence of vaccination coverage on the dynamics of COVIDâ€19 pandemic with the effect of environmental contamination. Mathematical Methods in the Applied Sciences, 2023, 46, 12425-12453.	2.3	12
52	Predicting COVID-19 positivity and hospitalization with multi-scale graph neural networks. Scientific Reports, 2023, 13, .	3.3	2
53	Analysis of the Number of Tests, the Positivity Rate and Their Dependency Structure During COVID-19 Pandemic. Statistics, Politics, and Policy, 2023, .	0.5	0
54	Mathematical Modelling of COVID-19 Transmission Dynamics with Vaccination: A Case Study in Ethiopia. Discrete Dynamics in Nature and Society, 2023, 2023, 1-25.	0.9	1
55	Optimal interventional policy based on discrete-time fuzzy rules equivalent model utilizing with COVID-19 pandemic data. International Journal of Machine Learning and Cybernetics, 0, , .	3.6	1
56	Impact of COVID-19 outbreak on the mental health in sports: a review. Sport Sciences for Health, 2023, 19, 1043-1057.	1.3	1

#	Article	IF	Citations
57	Modeling COVID-19 Breakthrough Infections in a Vaccinated Population. WSEAS Transactions on Systems, 2023, 22, 584-592.	0.5	0
58	Mathematical modeling of COVIDâ€19 and Omicron outbreak spread: Optimal control approach for intervention strategies. Optimal Control Applications and Methods, 0, , .	2.1	0
59	Modeling of COVID-19 outbreak in Gaza Strip using SEIR model. , 2023, , .		0
62	Identifying critical driving factors for human brucellosis in Inner Mongolia, China. Physica A: Statistical Mechanics and Its Applications, 2023, , 129073.	2.6	0
64	Investigation on the possibility of dynamic COVID-Zero strategy in China: a population-based transmission model analysis and economic evaluation. BMJ Open, 2023, 13, e067294.	1.9	0
65	Neuro-evolutionary computing paradigm for two strain COVID-19 model. Waves in Random and Complex Media, 0, , 1-24.	2.7	1
66	A data-driven Markov process for infectious disease transmission. PLoS ONE, 2023, 18, e0289897.	2.5	0
67	Mathematical modeling and optimal control for COVIDâ€19 with population behavior. Mathematical Methods in the Applied Sciences, 2023, 46, 19184-19198.	2.3	3
68	Modelling the impacts of media campaign and double dose vaccination in controlling COVID-19 in Nigeria. AEJ - Alexandria Engineering Journal, 2023, 80, 167-190.	6.4	0
69	Controlling COVID-19 Spreading: A Three-Level Algorithm. Mathematics, 2023, 11, 3766.	2.2	0
70	The relationship between compartment models and their stochastic counterparts: A comparative study with examples of the COVID-19 epidemic modeling. Journal of Biomedical Research, 2023, 37, 1.	1.6	0
71	An Extended Fractional SEIR Model to Predict the Spreading Behavior of COVID-19 Disease using Monte Carlo Back Sampling. Springer Optimization and Its Applications, 2023, , 3-20.	0.9	0
72	Dynamical Transmission and Mathematical Analysis of Ebola Virus Using a Constant Proportional Operator with a Power Law Kernel. Fractal and Fractional, 2023, 7, 706.	3.3	9
73	The impact of multiple population-wide testing and social distancing on the transmission of an infectious disease. Physica A: Statistical Mechanics and Its Applications, 2023, 630, 129243.	2.6	0
74	Adolescent Idiopathic Scoliosis Surgery Decision Making with Fuzzy Model. Medical Journal of Bakirkoy, 2023, 19, 324-327.	0.1	0
75	Optimal control analysis on the impact of non-pharmaceutical interventions and vaccination on the dynamics of COVID-19. Results in Control and Optimization, 2023, 13, 100319.	2.3	0
76	A COVID-19 epidemic model with periodicity in transmission and environmental dynamics. Frontiers in Applied Mathematics and Statistics, 0, 9, .	1.3	1
77	A deterministic compartmental model for investigating the impact of escapees on the transmission dynamics of COVID-19. Healthcare Analytics, 2023, 4, 100275.	4.3	1

#	Article	IF	Citations
79	Modelling and Control of COVID-19 in Small Environments with Two-Group Population. IFAC-PapersOnLine, 2023, 56, 5071-5076.	0.9	0
80	Uncovering heterogeneous inequities induced by COVID-19 interventions: Evidence from three states in the U.S.. Socio-Economic Planning Sciences, 2024, 92, 101820.	5.0	0
81	Predicting COVID-19 outbreak in India using modified SIRD model. , 2024, 32, .		1
82	Stochastic COVIDâ€19 epidemic model incorporating asymptomatic and isolated compartments. Mathematical Methods in the Applied Sciences, 0, , .	2.3	0
83	Mathematical modelling of COVID-19 dynamics using SVEAIQHR model. Computational and Mathematical Biophysics, 2024, 12, .	1.1	0
84	Analysis of a COVID-19 model with media coverage and limited resources. Mathematical Biosciences and Engineering, 2024, 21, 5283-5307.	1.9	0
85	Stability analysis of a fractional-order monkeypox epidemic model with quarantine and hospitalization. Journal of Biosafety and Biosecurity, 2024, 6, 34-50.	2.8	0