Daozhou Gao

List of Publications by Year in Descending Order

51 papers	2,972 citations	22 h-index	54 g-index
56 ext. papers	3,663 ext. citations	3.3 avg, IF	5.92 L-index

#	Paper	IF	Citations
51	Bifurcation and overexploitation in Rosenzweig-MacArthur model. *Discrete and Continuous Dynamical Systems - Series B*, **2022**,	1.3	1
50	Effects of Asymptomatic Infections on the Spatial Spread of Infectious Diseases. *SIAM Journal on Applied Mathematics*, **2022**, 82, 899-923	1.8	0
49	Modelling COVID-19 outbreak on the Diamond Princess ship using the public surveillance data. *Infectious Disease Modelling*, **2022**, 7, 189-195	15.7	
48	Impact of State-Dependent Dispersal on Disease Prevalence. *Journal of Nonlinear Science*, **2021**, 31, 73	2.8	1
47	A Zika Endemic Model for the Contribution of Multiple Transmission Routes. *Bulletin of Mathematical Biology*, **2021**, 83, 111	2.1	2
46	Shrinkage in serial intervals across transmission generations of COVID-19. *Journal of Theoretical Biology*, **2021**, 529, 110861	2.3	
45	Imitation dynamics in the mitigation of the novel coronavirus disease (COVID-19) outbreak in Wuhan, China from 2019 to 2020. *Annals of Translational Medicine*, **2020**, 8, 448	3.2	45
44	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. *International Journal of Infectious Diseases*, **2020**, 96, 284-287	10.5	4
43	Serial interval in determining the estimation of reproduction number of the novel coronavirus disease (COVID-19) during the early outbreak. *Journal of Travel Medicine*, **2020**, 27,	12.9	33
42	A conceptual model for the coronavirus disease 2019 (COVID-19) outbreak in Wuhan, China with individual reaction and governmental action. *International Journal of Infectious Diseases*, **2020**, 93, 211-216	10.5	566
41	COVID-19 and gender-specific difference: Analysis of public surveillance data in Hong Kong and Shenzhen, China, from January 10 to February 15, 2020. *Infection Control and Hospital Epidemiology*, **2020**, 41, 750-751	2	42
40	Comparing COVID-19 and the 1918-19 influenza pandemics in the United Kingdom. *International Journal of Infectious Diseases*, **2020**, 98, 67-70	10.5	25
39	Mechanistic modelling of the large-scale Lassa fever epidemics in Nigeria from 2016 to 2019. *Journal of Theoretical Biology*, **2020**, 493, 110209	2.3	22
38	Quantifying the association between domestic travel and the exportation of novel coronavirus (2019-nCoV) cases from Wuhan, China in 2020: a correlational analysis. *Journal of Travel Medicine*, **2020**, 27,	12.9	57
37	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. *International Journal of Infectious Diseases*, **2020**, 94, 148-150	10.5	20
36	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. *International Journal of Infectious Diseases*, **2020**, 92, 214-217	10.5	1027
35	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. *Journal of Clinical Medicine*, **2020**, 9,	5.1	273

34	Modelling triatomine bug population and Trypanosoma rangeli transmission dynamics: Co-feeding, pathogenic effect and linkage with chagas disease. *Mathematical Biosciences*, **2020**, 324, 108326	3.9	1
33	Mathematical Analysis of the Ross-Macdonald Model with Quarantine. *Bulletin of Mathematical Biology*, **2020**, 82, 47	2.1	5
32	Effects of travel frequency on the persistence of mosquito-borne diseases. *Discrete and Continuous Dynamical Systems - Series B*, **2020**, 25, 4677-4701	1.3	2
31	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. *Frontiers in Physics*, **2020**, 8,	3.9	34
30	How Does Dispersal Affect the Infection Size?. *SIAM Journal on Applied Mathematics*, **2020**, 80, 2144-2169	1.8	6
29	Travel Frequency and Infectious Diseases. *SIAM Journal on Applied Mathematics*, **2019**, 79, 1581-1606	1.8	17
28	Habitat fragmentation promotes malaria persistence. *Journal of Mathematical Biology*, **2019**, 79, 2255-2280	2	13
27	Modelling diapause in mosquito population growth. *Journal of Mathematical Biology*, **2019**, 78, 2259-2288	2	20
26	Projections of Ebola outbreak size and duration with and without vaccine use in Équateur, Democratic Republic of Congo, as of May 27, 2018. *PLoS ONE*, **2019**, 14, e0213190	3.7	19
25	Fast diffusion inhibits disease outbreaks. *Proceedings of the American Mathematical Society*, **2019**, 148, 1709-1722	0.8	11
24	Modeling the 2016-2017 Yemen cholera outbreak with the impact of limited medical resources. *Journal of Theoretical Biology*, **2018**, 451, 80-85	2.3	21
23	Modelling the large-scale yellow fever outbreak in Luanda, Angola, and the impact of vaccination. *PLoS Neglected Tropical Diseases*, **2018**, 12, e0006158	4.8	57
22	A comparison study of Zika virus outbreaks in French Polynesia, Colombia and the State of Bahia in Brazil. *Scientific Reports*, **2017**, 7, 273	4.9	25
21	Impact of Awareness Programs on Cholera Dynamics: Two Modeling Approaches. *Bulletin of Mathematical Biology*, **2017**, 79, 2109-2131	2.1	29
20	Modeling co-infection of Ixodes tick-borne pathogens. *Mathematical Biosciences and Engineering*, **2017**, 14, 1301-1316	2.1	8
19	Mass drug administration: the importance of synchrony. *Mathematical Medicine and Biology*, **2017**, 34, 241-260	1.3	7
18	Prevention and Control of Zika as a Mosquito-Borne and Sexually Transmitted Disease: A Mathematical Modeling Analysis. *Scientific Reports*, **2016**, 6, 28070	4.9	193
17	Coinfection Dynamics of Two Diseases in a Single Host Population. *Journal of Mathematical Analysis and Applications*, **2016**, 442, 171-188	1.1	22

16	Patch Models of EVD Transmission Dynamics **2016**, 147-167		4
15	Antibiotic resistance as collateral damage: the tragedy of the commons in a two-disease setting. *Mathematical Biosciences*, **2015**, 263, 121-32	3.9	11
14	Influence of human behavior on cholera dynamics. *Mathematical Biosciences*, **2015**, 267, 41-52	3.9	37
13	Malaria Models with Spatial Effects. *Wiley Series in Probability and Statistics*, **2015**, 109-136	1.3	1
12	Evaluating Subcriticality during the Ebola Epidemic in West Africa. *PLoS ONE*, **2015**, 10, e0140651	3.7	4
11	Assessing Measles Transmission in the United States Following a Large Outbreak in California. *PLOS Currents*, **2015**, 7,		12
10	Optimal seasonal timing of oral azithromycin for malaria. *American Journal of Tropical Medicine and Hygiene*, **2014**, 91, 936-942	3.2	13
9	A PERIODIC ROSS-MACDONALD MODEL IN A PATCHY ENVIRONMENT. *Discrete and Continuous Dynamical Systems - Series B*, **2014**, 19, 3133-3145	1.3	17
8	Modeling the spatial spread of Rift Valley fever in Egypt. *Bulletin of Mathematical Biology*, **2013**, 75, 523-42	1.2	23
7	Towards a theory of ecotone resilience: coastal vegetation on a salinity gradient. *Theoretical Population Biology*, **2012**, 82, 29-37	1.2	29
6	A MULTI-PATCH MALARIA MODEL WITH LOGISTIC GROWTH POPULATIONS. *SIAM Journal on Applied Mathematics*, **2012**, 72, 819-841	1.8	58
5	When does overuse of antibiotics become a tragedy of the commons?. *PLoS ONE*, **2012**, 7, e46505	3.7	47
4	An SIS patch model with variable transmission coefficients. *Mathematical Biosciences*, **2011**, 232, 110-5	3.9	63
3	A competition-diffusion system with a refuge. *Discrete and Continuous Dynamical Systems - Series B*, **2007**, 8, 435-454	1.3	2
2	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		12
1	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		29