Yijun Lou

List of Publications by Year in descending order

68 papers	4,724 citations	236612 25 h-index	110170 64 g-index
69 all docs	69 docs citations	69 times ranked	5880 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. International Journal of Infectious Diseases, 2020, 92, 214-217.	1.5	1,428
2	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.	1.5	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. Journal of Clinical Medicine, 2020, 9, 388.	1.0	378
4	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
5	A reactionâ€“diffusion malaria model with incubation period in the vector population. Journal of Mathematical Biology, 2011, 62, 543-568.	0.8	249
6	A Climate-Based Malaria Transmission Model with Structured Vector Population. SIAM Journal on Applied Mathematics, 2010, 70, 2023-2044.	0.8	107
7	Preliminary estimates of the reproduction number of the coronavirus disease (COVID-19) outbreak in Republic of Korea and Italy by 5 March 2020. International Journal of Infectious Diseases, 2020, 95, 308-310.	1.5	77
8	Preliminary estimation of the novel coronavirus disease (COVID-19) cases in Iran: A modelling analysis based on overseas cases and air travel data. International Journal of Infectious Diseases, 2020, 94, 29-31.	1.5	72
9	Can Pathogen Spread Keep Pace with its Host Invasion?. SIAM Journal on Applied Mathematics, 2016, 76, 1633-1657.	0.8	71
10	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, .	1.4	71
11	Developing a temperature-driven map of the basic reproductive number of the emerging tick vector of Lyme disease Ixodes scapularis in Canada. Journal of Theoretical Biology, 2013, 319, 50-61.	0.8	70
12	A Theoretical Approach to Understanding Population Dynamics with Seasonal Developmental Durations. Journal of Nonlinear Science, 2017, 27, 573-603.	1.0	64
13	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, .	1.0	53
14	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.	1.0	53
15	Threshold virus dynamics with impulsive antiretroviral drug effects. Journal of Mathematical Biology, 2012, 65, 623-652.	0.8	48
16	Stabilization of logical control networks: an event-triggered control approach. Science China Information Sciences, 2020, 63, 1.	2.7	45
17	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, .	1.4	43
18	Modelling diapause in mosquito population growth. Journal of Mathematical Biology, 2019, 78, 2259-2288.	0.8	40

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19	The periodic Rossâ€“Macdonald model with diffusion and advection. Applicable Analysis, 2010, 89, 1067-1089.	0.6	38
20	Comparing COVID-19 and the 1918â€“19 influenza pandemics in the United Kingdom. International Journal of Infectious Diseases, 2020, 98, 67-70.	1.5	38
21	Threshold dynamics in a time-delayed periodic SIS epidemic model. Discrete and Continuous Dynamical Systems - Series B, 2009, 12, 169-186.	0.5	34
22	Halanay-type inequality with delayed impulses and its applications. Science China Information Sciences, 2019, 62, 1.	2.7	33
23	A comparison study of Zika virus outbreaks in French Polynesia, Colombia and the State of Bahia in Brazil. Scientific Reports, 2017, 7, 273.	1.6	31
24	Induced-Equations-Based Stability Analysis and Stabilization of Markovian Jump Boolean Networks. IEEE Transactions on Automatic Control, 2021, 66, 4820-4827.	3.6	30
25	Modelling the skip-and-resurgence of Japanese encephalitis epidemics in Hong Kong. Journal of Theoretical Biology, 2018, 454, 1-10.	0.8	26
26	Optimizing COVID-19 vaccination programs during vaccine shortages. Infectious Disease Modelling, 2022, 7, 286-298.	1.2	26
27	Impact of biodiversity and seasonality on Lyme-pathogen transmission. Theoretical Biology and Medical Modelling, 2014, 11, 50.	2.1	25
28	Epidemic outbreak for an SIS model in multiplex networks with immunization. Mathematical Biosciences, 2016, 277, 38-46.	0.9	25
29	Analysis of an age structured model for tick populations subject to seasonal effects. Journal of Differential Equations, 2017, 263, 2078-2112.	1.1	25
30	Stability of switched systems with limiting average dwell time. International Journal of Robust and Nonlinear Control, 2019, 29, 5520-5532.	2.1	25
31	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.	1.5	24
32	Ageâ€Structured Withinâ€Host HIV Dynamics with Multiple Target Cells. Studies in Applied Mathematics, 2017, 138, 43-76.	1.1	22
33	Low dispersion in theÂinfectiousness of COVID-19 cases implies difficulty in control. BMC Public Health, 2020, 20, 1558.	1.2	21
34	Modelling Malaria Control by Introduction ofÂLarvivorous Fish. Bulletin of Mathematical Biology, 2011, 73, 2384-2407.	0.9	20
35	Tick seeking assumptions and their implications for Lyme disease predictions. Ecological Complexity, 2014, 17, 99-106.	1.4	20
36	Global dynamics of a predatorâ€“prey model. Journal of Mathematical Analysis and Applications, 2010, 371, 323-340.	0.5	19

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37	Modeling Lyme disease transmission. Infectious Disease Modelling, 2017, 2, 229-243.	1.2	19
38	A periodic Ross-Macdonald model in a patchy environment. Discrete and Continuous Dynamical Systems - Series B, 2014, 19, 3133-3145.	0.5	19
39	Stage-structured models of intra- and inter-specific competition within age classes. Journal of Differential Equations, 2016, 260, 1918-1953.	1.1	17
40	A Mathematical Model for the Spatial Spread and Biocontrol of the Asian Longhorned Beetle. SIAM Journal on Applied Mathematics, 2014, 74, 864-884.	0.8	15
41	A perturbation approach to studying sign-changing solutions of Kirchhoff equations with a general nonlinearity. Annali Di Matematica Pura Ed Applicata, 2022, 201, 1229-1255.	0.5	15
42	Modeling co-infection of Ixodes tick-borne pathogens. Mathematical Biosciences and Engineering, 2017, 14, 1301-1316.	1.0	14
43	Stability and persistence in ODE modelsfor populations with many stages. Mathematical Biosciences and Engineering, 2015, 12, 661-686.	1.0	12
44	Characteristics of an epidemic outbreak with a large initial infection size. Journal of Biological Dynamics, 2016, 10, 366-378.	0.8	11
45	Epidemiological Impact of a Genital Herpes Type 2 Vaccine for Young Females. PLoS ONE, 2012, 7, e46027.	1.1	11
46	Synchronization of Networked Harmonic Oscillators via Quantized Sampled Velocity Feedback. IEEE Transactions on Automatic Control, 2021, 66, 3267-3273.	3.6	10
47	Range expansion of Ixodes scapularis ticks and of Borrelia burgdorferi by migratory birds. Discrete and Continuous Dynamical Systems - Series B, 2014, 19, 3147-3167.	0.5	10
48	EPIDEMIC SPREADING AND GLOBAL STABILITY OF A NEW SIS MODEL WITH DELAY ON HETEROGENEOUS NETWORKS. Journal of Biological Systems, 2015, 23, 1550029.	0.5	9
49	A Delayed Succession Model With Diffusion for the Impact of Diapause on Population Growth. SIAM Journal on Applied Mathematics, 2020, 80, 1493-1519.	0.8	9
50	Behavioral synchronization induced by epidemic spread in complex networks. Chaos, 2017, 27, 063101.	1.0	9
51	A Zika Endemic Model for the Contribution of Multiple Transmission Routes. Bulletin of Mathematical Biology, 2021, 83, 111.	0.9	8
52	An age-structured within-host HIV model with T-cell competition. Nonlinear Analysis: Real World Applications, 2017, 38, 1-20.	0.9	7
53	Modelling epidemics with fractional-dose vaccination in response to limited vaccine supply. Journal of Theoretical Biology, 2020, 486, 110085.	0.8	6
54	Bifurcation of travelling wave solutions in a nonlinear variant of the RLW equation. Communications in Nonlinear Science and Numerical Simulation, 2007, 12, 1488-1503.	1.7	5

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55	Bifurcation of travelling wave solutions in generalized phi-four equation. Applied Mathematics and Computation, 2007, 190, 517-525.	1.4	5
56	Local immunization program for susceptible-infected-recovered network epidemic model. Chaos, 2016, 26, 023108.	1.0	5
57	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.	1.5	5
58	Dynamics of a periodic tick-borne disease model with co-feeding and multiple patches. Journal of Mathematical Biology, 2021, 82, 27.	0.8	5
59	Cost-effectiveness evaluation of gender-based vaccination programs against sexually transmitted infections. Discrete and Continuous Dynamical Systems - Series B, 2014, 19, 447-466.	0.5	5
60	Stage duration distributions and intraspecific competition: a review of continuous stage-structured models. Mathematical Biosciences and Engineering, 2022, 19, 7543-7569.	1.0	5
61	Zeros of a Class of Transcendental Equation with Application to Bifurcation of DDE. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650062.	0.7	4
62	Intra-specific competition and insect larval development: a model with time-dependent delay. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2017, 147, 353-369.	0.8	4
63	Spatio-temporal dynamics of a model for the effect of variable ages at reproduction. Nonlinearity, 2021, 34, 5897-5925.	0.6	4
64	FINGERPRINT FEATURE EXTRACTION VIA CNN WITH VON NEUMANN NEIGHBORHOOD. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 4145-4151.	0.7	3
65	Modelling COVID-19 outbreak on the Diamond Princess ship using the public surveillance data. Infectious Disease Modelling, 2022, 7, 189-195.	1.2	3
66	Spatial dynamics of a nonlocal model with periodic delay and competition. European Journal of Applied Mathematics, 2020, 31, 1070-1100.	1.4	2
67	Preliminary estimation of the novel coronavirus disease (COVID-19) cases in Iran: A reply to Sharifi. International Journal of Infectious Diseases, 2020, 95, 429-430.	1.5	1
68	LYME PATHOGEN TRANSMISSION IN TICK POPULATIONS WITH MULTIPLE HOST SPECIES. , 2013, , .		0