Yijun Lou

List of Publications by Year in Descending Order

68 papers	3,329 citations	22 h-index	57 g-index
69 ext. papers	4,047 ext. citations	3.6 avg, IF	6.05 L-index

#	Paper	IF	Citations
68	Optimizing COVID-19 vaccination programs during vaccine shortages: A review of mathematical models.. *Infectious Disease Modelling*, **2022**,	15.7	5
67	Stage duration distributions and intraspecific competition: a review of continuous stage-structured models. *Mathematical Biosciences and Engineering*, **2022**, 19, 7543-7569	2.1	0
66	Modelling COVID-19 outbreak on the Diamond Princess ship using the public surveillance data. *Infectious Disease Modelling*, **2022**, 7, 189-195	15.7	
65	Dynamics of a periodic tick-borne disease model with co-feeding and multiple patches. *Journal of Mathematical Biology*, **2021**, 82, 27	2	2
64	Synchronization of Networked Harmonic Oscillators via Quantized Sampled Velocity Feedback. *IEEE Transactions on Automatic Control*, **2021**, 66, 3267-3273	5.9	3
63	Spatio-temporal dynamics of a model for the effect of variable ages at reproduction. *Nonlinearity*, **2021**, 34, 5897-5925	1.7	0
62	A Zika Endemic Model for the Contribution of Multiple Transmission Routes. *Bulletin of Mathematical Biology*, **2021**, 83, 111	2.1	2
61	Induced-Equations-Based Stability Analysis and Stabilization of Markovian Jump Boolean Networks. *IEEE Transactions on Automatic Control*, **2021**, 66, 4820-4827	5.9	13
60	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	10.5	1
59	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
58	A Delayed Succession Model With Diffusion for the Impact of Diapause on Population Growth. *SIAM Journal on Applied Mathematics*, **2020**, 80, 1493-1519	1.8	3
57	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
56	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
55	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
54	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
53	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
52	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

51	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
50	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
49	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	10.5	54
48	Spatial dynamics of a nonlocal model with periodic delay and competition. *European Journal of Applied Mathematics*, **2020**, 31, 1070-1100	1	0
47	Stabilization of logical control networks: an event-triggered control approach. *Science China Information Sciences*, **2020**, 63, 1	3.4	33
46	Modelling epidemics with fractional-dose vaccination in response to limited vaccine supply. *Journal of Theoretical Biology*, **2020**, 486, 110085	2.3	5
45	Low dispersion in the infectiousness of COVID-19 cases implies difficulty in control. *BMC Public Health*, **2020**, 20, 1558	4.1	11
44	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
43	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	10.5	54
42	Modelling diapause in mosquito population growth. *Journal of Mathematical Biology*, **2019**, 78, 2259-2288	2	20
41	Halanay-type inequality with delayed impulses and its applications. *Science China Information Sciences*, **2019**, 62, 1	3.4	23
40	Stability of switched systems with limiting average dwell time. *International Journal of Robust and Nonlinear Control*, **2019**, 29, 5520-5532	3.6	13
39	Modelling the skip-and-resurgence of Japanese encephalitis epidemics in Hong Kong. *Journal of Theoretical Biology*, **2018**, 454, 1-10	2.3	20
38	Age-Structured Within-Host HIV Dynamics with Multiple Target Cells. *Studies in Applied Mathematics*, **2017**, 138, 43-76	2.1	16
37	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	1	4
36	An age-structured within-host HIV model with T-cell competition. *Nonlinear Analysis: Real World Applications*, **2017**, 38, 1-20	2.1	6
35	Modeling Lyme disease transmission. *Infectious Disease Modelling*, **2017**, 2, 229-243	15.7	10
34	Analysis of an age structured model for tick populations subject to seasonal effects. *Journal of Differential Equations*, **2017**, 263, 2078-2112	2.1	18

33	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
32	A Theoretical Approach to Understanding Population Dynamics with Seasonal Developmental Durations. *Journal of Nonlinear Science*, **2017**, 27, 573-603	2.8	42
31	Modeling co-infection of Ixodes tick-borne pathogens. *Mathematical Biosciences and Engineering*, **2017**, 14, 1301-1316	2.1	8
30	Behavioral synchronization induced by epidemic spread in complex networks. *Chaos*, **2017**, 27, 063101	3.3	6
29	Stage-structured models of intra- and inter-specific competition within age classes. *Journal of Differential Equations*, **2016**, 260, 1918-1953	2.1	12
28	Can Pathogen Spread Keep Pace with its Host Invasion?. *SIAM Journal on Applied Mathematics*, **2016**, 76, 1633-1657	1.8	48
27	Characteristics of an epidemic outbreak with a large initial infection size. *Journal of Biological Dynamics*, **2016**, 10, 366-78	2.4	8
26	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
25	Local immunization program for susceptible-infected-recovered network epidemic model. *Chaos*, **2016**, 26, 023108	3.3	4
24	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	2	4
23	Epidemic outbreak for an SIS model in multiplex networks with immunization. *Mathematical Biosciences*, **2016**, 277, 38-46	3.9	22
22	EPIDEMIC SPREADING AND GLOBAL STABILITY OF A NEW SIS MODEL WITH DELAY ON HETEROGENEOUS NETWORKS. *Journal of Biological Systems*, **2015**, 23, 1550029	1.6	8
21	Stability and persistence in ODE models for populations with many stages. *Mathematical Biosciences and Engineering*, **2015**, 12, 661-86	2.1	9
20	A Mathematical Model for the Spatial Spread and Biocontrol of the Asian Longhorned Beetle. *SIAM Journal on Applied Mathematics*, **2014**, 74, 864-884	1.8	13
19	Impact of biodiversity and seasonality on Lyme-pathogen transmission. *Theoretical Biology and Medical Modelling*, **2014**, 11, 50	2.3	20
18	Tick seeking assumptions and their implications for Lyme disease predictions. *Ecological Complexity*, **2014**, 17, 99-106	2.6	15
17	A PERIODIC ROSS-MACDONALD MODEL IN A PATCHY ENVIRONMENT. *Discrete and Continuous Dynamical Systems - Series B*, **2014**, 19, 3133-3145	1.3	17
16	Range expansion of Ixodes scapularis ticks and of Borrelia burgdorferi by migratory birds. *Discrete and Continuous Dynamical Systems - Series B*, **2014**, 19, 3147-3167	1.3	9

LIST OF PUBLICATIONS

15	Cost-effectiveness evaluation of gender-based vaccination programs against sexually transmitted infections. *Discrete and Continuous Dynamical Systems - Series B*, **2014**, 19, 447-466	1.3	3
14	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	2.3	62
13	Threshold virus dynamics with impulsive antiretroviral drug effects. *Journal of Mathematical Biology*, **2012**, 65, 623-52	2	39
12	Epidemiological impact of a genital herpes type 2 vaccine for young females. *PLoS ONE*, **2012**, 7, e46027	3.7	10
11	A reaction-diffusion malaria model with incubation period in the vector population. *Journal of Mathematical Biology*, **2011**, 62, 543-68	2	162
10	Modelling malaria control by introduction of larvivorous fish. *Bulletin of Mathematical Biology*, **2011**, 73, 2384-407	2.1	18
9	The periodic Ross‑Macdonald model with diffusion and advection. *Applicable Analysis*, **2010**, 89, 1067-1089	0.8	28
8	A Climate-Based Malaria Transmission Model with Structured Vector Population. *SIAM Journal on Applied Mathematics*, **2010**, 70, 2023-2044	1.8	86
7	Global dynamics of a predator‑prey model. *Journal of Mathematical Analysis and Applications*, **2010**, 371, 323-340	1.1	15
6	Threshold dynamics in a time-delayed periodic SIS epidemic model. *Discrete and Continuous Dynamical Systems - Series B*, **2009**, 12, 169-186	1.3	28
5	Bifurcation of travelling wave solutions in a nonlinear variant of the RLW equation. *Communications in Nonlinear Science and Numerical Simulation*, **2007**, 12, 1488-1503	3.7	2
4	Bifurcation of travelling wave solutions in generalized phi-four equation. *Applied Mathematics and Computation*, **2007**, 190, 517-525	2.7	5
3	FINGERPRINT FEATURE EXTRACTION VIA CNN WITH VON NEUMANN NEIGHBORHOOD. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2007**, 17, 4145-4151	2	1
2	Preliminary estimating the reproduction number of the coronavirus disease (COVID-19) outbreak in Republic of Korea from 31 January to 1 March 2020		6
1	A perturbation approach to studying sign-changing solutions of Kirchhoff equations with a general nonlinearity. *Annali Di Matematica Pura Ed Applicata*,1	0.8	4