

Yijun Lou

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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. <i>International Journal of Infectious Diseases</i> , 2020 , 92, 214-217	10.5	1027
67	A conceptual model for the coronavirus disease 2019 (COVID-19) outbreak in Wuhan, China with individual reaction and governmental action. <i>International Journal of Infectious Diseases</i> , 2020 , 93, 211-216	10.5	566
66	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. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	273
65	Prevention and Control of Zika as a Mosquito-Borne and Sexually Transmitted Disease: A Mathematical Modeling Analysis. <i>Scientific Reports</i> , 2016 , 6, 28070	4.9	193
64	A reaction-diffusion malaria model with incubation period in the vector population. <i>Journal of Mathematical Biology</i> , 2011 , 62, 543-68	2	162
63	A Climate-Based Malaria Transmission Model with Structured Vector Population. <i>SIAM Journal on Applied Mathematics</i> , 2010 , 70, 2023-2044	1.8	86
62	Developing a temperature-driven map of the basic reproductive number of the emerging tick vector of Lyme disease <i>Ixodes scapularis</i> in Canada. <i>Journal of Theoretical Biology</i> , 2013 , 319, 50-61	2.3	62
61	Quantifying the association between domestic travel and the exportation of novel coronavirus (2019-nCoV) cases from Wuhan, China in 2020: a correlational analysis. <i>Journal of Travel Medicine</i> , 2020 , 27,	12.9	57
60	Preliminary estimates of the reproduction number of the coronavirus disease (COVID-19) outbreak in Republic of Korea and Italy by 5 March 2020. <i>International Journal of Infectious Diseases</i> , 2020 , 95, 308-310	10.5	54
59	Preliminary estimation of the novel coronavirus disease (COVID-19) cases in Iran: A modelling analysis based on overseas cases and air travel data. <i>International Journal of Infectious Diseases</i> , 2020 , 94, 29-31	10.5	54
58	Can Pathogen Spread Keep Pace with its Host Invasion?. <i>SIAM Journal on Applied Mathematics</i> , 2016 , 76, 1633-1657	1.8	48
57	COVID-19 and gender-specific difference: Analysis of public surveillance data in Hong Kong and Shenzhen, China, from January 10 to February 15, 2020. <i>Infection Control and Hospital Epidemiology</i> , 2020 , 41, 750-751	2	42
56	A Theoretical Approach to Understanding Population Dynamics with Seasonal Developmental Durations. <i>Journal of Nonlinear Science</i> , 2017 , 27, 573-603	2.8	42
55	Threshold virus dynamics with impulsive antiretroviral drug effects. <i>Journal of Mathematical Biology</i> , 2012 , 65, 623-52	2	39
54	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. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	34
53	Serial interval in determining the estimation of reproduction number of the novel coronavirus disease (COVID-19) during the early outbreak. <i>Journal of Travel Medicine</i> , 2020 , 27,	12.9	33
52	Stabilization of logical control networks: an event-triggered control approach. <i>Science China Information Sciences</i> , 2020 , 63, 1	3.4	33

51	The periodic Ross-Macdonald model with diffusion and advection. <i>Applicable Analysis</i> , 2010 , 89, 1067-1089	8	28
50	Threshold dynamics in a time-delayed periodic SIS epidemic model. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2009 , 12, 169-186	1.3	28
49	A comparison study of Zika virus outbreaks in French Polynesia, Colombia and the State of Bahia in Brazil. <i>Scientific Reports</i> , 2017 , 7, 273	4.9	25
48	Comparing COVID-19 and the 1918-19 influenza pandemics in the United Kingdom. <i>International Journal of Infectious Diseases</i> , 2020 , 98, 67-70	10.5	25
47	Halanay-type inequality with delayed impulses and its applications. <i>Science China Information Sciences</i> , 2019 , 62, 1	3.4	23
46	Epidemic outbreak for an SIS model in multiplex networks with immunization. <i>Mathematical Biosciences</i> , 2016 , 277, 38-46	3.9	22
45	Modelling diapause in mosquito population growth. <i>Journal of Mathematical Biology</i> , 2019 , 78, 2259-2288	8	20
44	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. <i>International Journal of Infectious Diseases</i> , 2020 , 94, 148-150	10.5	20
43	Impact of biodiversity and seasonality on Lyme-pathogen transmission. <i>Theoretical Biology and Medical Modelling</i> , 2014 , 11, 50	2.3	20
42	Modelling the skip-and-resurgence of Japanese encephalitis epidemics in Hong Kong. <i>Journal of Theoretical Biology</i> , 2018 , 454, 1-10	2.3	20
41	Analysis of an age structured model for tick populations subject to seasonal effects. <i>Journal of Differential Equations</i> , 2017 , 263, 2078-2112	2.1	18
40	Modelling malaria control by introduction of larvivorous fish. <i>Bulletin of Mathematical Biology</i> , 2011 , 73, 2384-407	2.1	18
39	A PERIODIC ROSS-MACDONALD MODEL IN A PATCHY ENVIRONMENT. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2014 , 19, 3133-3145	1.3	17
38	Age-Structured Within-Host HIV Dynamics with Multiple Target Cells. <i>Studies in Applied Mathematics</i> , 2017 , 138, 43-76	2.1	16
37	Tick seeking assumptions and their implications for Lyme disease predictions. <i>Ecological Complexity</i> , 2014 , 17, 99-106	2.6	15
36	Global dynamics of a predator-prey model. <i>Journal of Mathematical Analysis and Applications</i> , 2010 , 371, 323-340	1.1	15
35	Stability of switched systems with limiting average dwell time. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 5520-5532	3.6	13
34	A Mathematical Model for the Spatial Spread and Biocontrol of the Asian Longhorned Beetle. <i>SIAM Journal on Applied Mathematics</i> , 2014 , 74, 864-884	1.8	13

33	Induced-Equations-Based Stability Analysis and Stabilization of Markovian Jump Boolean Networks. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 4820-4827	5.9	13
32	Stage-structured models of intra- and inter-specific competition within age classes. <i>Journal of Differential Equations</i> , 2016 , 260, 1918-1953	2.1	12
31	Low dispersion in the infectiousness of COVID-19 cases implies difficulty in control. <i>BMC Public Health</i> , 2020 , 20, 1558	4.1	11
30	Modeling Lyme disease transmission. <i>Infectious Disease Modelling</i> , 2017 , 2, 229-243	15.7	10
29	Epidemiological impact of a genital herpes type 2 vaccine for young females. <i>PLoS ONE</i> , 2012 , 7, e46027	3.7	10
28	Range expansion of <i>Ixodes scapularis</i> ticks and of <i>Borrelia burgdorferi</i> by migratory birds. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2014 , 19, 3147-3167	1.3	9
27	Stability and persistence in ODE models for populations with many stages. <i>Mathematical Biosciences and Engineering</i> , 2015 , 12, 661-86	2.1	9
26	Characteristics of an epidemic outbreak with a large initial infection size. <i>Journal of Biological Dynamics</i> , 2016 , 10, 366-78	2.4	8
25	EPIDEMIC SPREADING AND GLOBAL STABILITY OF A NEW SIS MODEL WITH DELAY ON HETEROGENEOUS NETWORKS. <i>Journal of Biological Systems</i> , 2015 , 23, 1550029	1.6	8
24	Modeling co-infection of <i>Ixodes</i> tick-borne pathogens. <i>Mathematical Biosciences and Engineering</i> , 2017 , 14, 1301-1316	2.1	8
23	An age-structured within-host HIV model with T-cell competition. <i>Nonlinear Analysis: Real World Applications</i> , 2017 , 38, 1-20	2.1	6
22	Behavioral synchronization induced by epidemic spread in complex networks. <i>Chaos</i> , 2017 , 27, 063101	3.3	6
21	Preliminary estimating the reproduction number of the coronavirus disease (COVID-19) outbreak in Republic of Korea from 31 January to 1 March 2020		6
20	Bifurcation of travelling wave solutions in generalized phi-four equation. <i>Applied Mathematics and Computation</i> , 2007 , 190, 517-525	2.7	5
19	Modelling epidemics with fractional-dose vaccination in response to limited vaccine supply. <i>Journal of Theoretical Biology</i> , 2020 , 486, 110085	2.3	5
18	Optimizing COVID-19 vaccination programs during vaccine shortages: A review of mathematical models. <i>Infectious Disease Modelling</i> , 2022 ,	15.7	5
17	Intra-specific competition and insect larval development: a model with time-dependent delay. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2017 , 147, 353-369	1	4
16	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. <i>International Journal of Infectious Diseases</i> , 2020 , 96, 284-287	10.5	4

15	Local immunization program for susceptible-infected-recovered network epidemic model. <i>Chaos</i> , 2016 , 26, 023108	3.3	4
14	Zeros of a Class of Transcendental Equation with Application to Bifurcation of DDE. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2016 , 26, 1650062	2	4
13	A perturbation approach to studying sign-changing solutions of Kirchhoff equations with a general nonlinearity. <i>Annali Di Matematica Pura Ed Applicata</i> , 1	0.8	4
12	A Delayed Succession Model With Diffusion for the Impact of Diapause on Population Growth. <i>SIAM Journal on Applied Mathematics</i> , 2020 , 80, 1493-1519	1.8	3
11	Cost-effectiveness evaluation of gender-based vaccination programs against sexually transmitted infections. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2014 , 19, 447-466	1.3	3
10	Synchronization of Networked Harmonic Oscillators via Quantized Sampled Velocity Feedback. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 3267-3273	5.9	3
9	Bifurcation of travelling wave solutions in a nonlinear variant of the RLW equation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2007 , 12, 1488-1503	3.7	2
8	Dynamics of a periodic tick-borne disease model with co-feeding and multiple patches. <i>Journal of Mathematical Biology</i> , 2021 , 82, 27	2	2
7	A Zika Endemic Model for the Contribution of Multiple Transmission Routes. <i>Bulletin of Mathematical Biology</i> , 2021 , 83, 111	2.1	2
6	Preliminary estimation of the novel coronavirus disease (COVID-19) cases in Iran: A reply to Sharifi. <i>International Journal of Infectious Diseases</i> , 2020 , 95, 429-430	10.5	1
5	FINGERPRINT FEATURE EXTRACTION VIA CNN WITH VON NEUMANN NEIGHBORHOOD. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2007 , 17, 4145-4151	2	1
4	Spatial dynamics of a nonlocal model with periodic delay and competition. <i>European Journal of Applied Mathematics</i> , 2020 , 31, 1070-1100	1	0
3	Spatio-temporal dynamics of a model for the effect of variable ages at reproduction. <i>Nonlinearity</i> , 2021 , 34, 5897-5925	1.7	0
2	Stage duration distributions and intraspecific competition: a review of continuous stage-structured models. <i>Mathematical Biosciences and Engineering</i> , 2022 , 19, 7543-7569	2.1	0
1	Modelling COVID-19 outbreak on the Diamond Princess ship using the public surveillance data. <i>Infectious Disease Modelling</i> , 2022 , 7, 189-195	15.7	