

Jianhong Wu

List of Publications by Year in Descending Order

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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.

42
papers

2,128
citations

16
h-index

43
g-index

43
ext. papers

2,624
ext. citations

3.1
avg, IF

5.95
L-index

#	Paper	IF	Citations
42	A patchy model for tick population dynamics with patch-specific developmental delays.. <i>Mathematical Biosciences and Engineering</i> , 2022 , 19, 5329-5360	2.1	0
41	Non-pharmaceutical intervention levels to reduce the COVID-19 attack ratio among children.. <i>Royal Society Open Science</i> , 2022 , 9, 211863	3.3	1
40	Synchronized Tick Population Oscillations Driven by Host Mobility and Spatially Heterogeneous Developmental Delays Combined. <i>Bulletin of Mathematical Biology</i> , 2021 , 83, 61	2.1	1
39	A window of opportunity for intensifying testing and tracing efforts to prevent new COVID-19 outbreaks due to more transmissible variants. <i>Canada Communicable Disease Report</i> , 2021 , 47, 329-338	3.1	3
38	Are host control strategies effective to eradicate tick-borne diseases (TBD)?. <i>Journal of Theoretical Biology</i> , 2021 , 508, 110483	2.3	1
37	Global population dynamics of a single species structured with distinctive time-varying maturation and self-limitation delays. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2021 ,	1.3	6
36	Optimal Reopening Pathways With COVID-19 Vaccine Rollout and Emerging Variants of Concern. <i>Frontiers in Public Health</i> , 2021 , 9, 729141	6	0
35	Long-term transmission dynamics of tick-borne diseases involving seasonal variation and co-feeding transmission. <i>Journal of Biological Dynamics</i> , 2021 , 15, 269-286	2.4	0
34	De-Escalation by Reversing the Escalation with a Stronger Synergistic Package of Contact Tracing, Quarantine, Isolation and Personal Protection: Feasibility of Preventing a COVID-19 Rebound in Ontario, Canada, as a Case Study. <i>Biology</i> , 2020 , 9,	4.9	29
33	Estimation of the Transmission Risk of the 2019-nCoV and Its Implication for Public Health Interventions. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	707
32	An updated estimation of the risk of transmission of the novel coronavirus (2019-nCov). <i>Infectious Disease Modelling</i> , 2020 , 5, 248-255	15.7	378
31	Impact of influenza vaccine-modified infectivity on attack rate, case fatality ratio and mortality. <i>Journal of Theoretical Biology</i> , 2020 , 492, 110190	2.3	1
30	The potential impact of climate change on the transmission risk of tick-borne encephalitis in Hungary. <i>BMC Infectious Diseases</i> , 2020 , 20, 34	4	9
29	Modelling triatomine bug population and <i>Trypanosoma rangeli</i> transmission dynamics: Co-feeding, pathogenic effect and linkage with chagas disease. <i>Mathematical Biosciences</i> , 2020 , 324, 108326	3.9	1
28	The effectiveness of quarantine and isolation determine the trend of the COVID-19 epidemics in the final phase of the current outbreak in China. <i>International Journal of Infectious Diseases</i> , 2020 , 95, 288-293	10.5	138
27	Quantifying the role of social distancing, personal protection and case detection in mitigating COVID-19 outbreak in Ontario, Canada. <i>Journal of Mathematics in Industry</i> , 2020 , 10, 15	2.9	28
26	Quantifying the shift in social contact patterns in response to non-pharmaceutical interventions. <i>Journal of Mathematics in Industry</i> , 2020 , 10, 28	2.9	8

25	Infestation Dynamics and Tick-on-Host Distribution Pattern Formation. <i>Lecture Notes on Mathematical Modelling in the Life Sciences</i> , 2020 , 79-101	0.3	
24	Oscillations Due To Diapause. <i>Lecture Notes on Mathematical Modelling in the Life Sciences</i> , 2020 , 103-136.	3	
23	Estimating Infection Risk of Tick-Borne Encephalitis. <i>Lecture Notes on Mathematical Modelling in the Life Sciences</i> , 2020 , 37-49	0.3	
22	Implications of vector attachment and host grooming behaviour for vector population dynamics and distribution of vectors on their hosts. <i>Applied Mathematical Modelling</i> , 2020 , 81, 1-15	4.5	4
21	Transmission Dynamics of Tick-Borne Diseases with Co-Feeding, Developmental and Behavioural Diapause. <i>Lecture Notes on Mathematical Modelling in the Life Sciences</i> , 2020 ,	0.3	2
20	Complex dynamics in a delay differential equation with two delays in tick growth with diapause. <i>Journal of Differential Equations</i> , 2020 , 269, 10937-10963	2.1	7
19	Global Continuation of Periodic Oscillations to a Diapause Rhythm. <i>Journal of Dynamics and Differential Equations</i> , 2020 , 1	1.3	5
18	Multi-cycle Periodic Solutions of a Differential Equation with Delay that Switches Periodically. <i>Differential Equations and Dynamical Systems</i> , 2020 , 1	0.8	3
17	Assessing systemic and non-systemic transmission risk of tick-borne encephalitis virus in Hungary. <i>PLoS ONE</i> , 2019 , 14, e0217206	3.7	10
16	Critical diapause portion for oscillations: Parametric trigonometric functions and their applications for Hopf bifurcation analyses. <i>Mathematical Methods in the Applied Sciences</i> , 2019 , 42, 1363-1376	2.3	9
15	Exponential Stability of Nonlinear Systems With Delayed Impulses and Applications. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 4024-4034	5.9	58
14	A Model for Megakaryopoiesis with State-Dependent Delay. <i>SIAM Journal on Applied Mathematics</i> , 2019 , 79, 1218-1243	1.8	2
13	Modeling Lyme disease transmission. <i>Infectious Disease Modelling</i> , 2017 , 2, 229-243	15.7	10
12	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
11	CRITICAL CONTACT RATE FOR VECTOR-HOST-PATHOGEN OSCILLATION INVOLVING CO-FEEDING AND DIAPAUSE. <i>Journal of Biological Systems</i> , 2017 , 25, 657-675	1.6	16
10	Stability of nonlinear differential systems with state-dependent delayed impulses. <i>Automatica</i> , 2016 , 64, 63-69	5.7	254
9	Stage-structured population systems with temporally periodic delay. <i>Mathematical Methods in the Applied Sciences</i> , 2015 , 38, 3464-3481	2.3	24
8	Stability and persistence in ODE models for populations with many stages. <i>Mathematical Biosciences and Engineering</i> , 2015 , 12, 661-86	2.1	9

7	Impact of biodiversity and seasonality on Lyme-pathogen transmission. <i>Theoretical Biology and Medical Modelling</i> , 2014 , 11, 50	2.3	20
6	Tick seeking assumptions and their implications for Lyme disease predictions. <i>Ecological Complexity</i> , 2014 , 17, 99-106	2.6	15
5	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
4	Global Hopf bifurcation for differential equations with state-dependent delay. <i>Journal of Differential Equations</i> , 2010 , 248, 2801-2840	2.1	35
3	Some Vector Borne Diseases with Structured Host Populations: Extinction and Spatial Spread. <i>SIAM Journal on Applied Mathematics</i> , 2007 , 67, 408-433	1.8	23
2	A final size relation for epidemic models. <i>Mathematical Biosciences and Engineering</i> , 2007 , 4, 159-75	2.1	72
1	Periodic Solutions of Single-Species Models with Periodic Delay. <i>SIAM Journal on Mathematical Analysis</i> , 1992 , 23, 689-701	1.7	156