

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.

107
papers

2,861
citations

21
h-index

52
g-index

117
ext. papers

3,426
ext. citations

2.6
avg, IF

6.03
L-index

#	Paper	IF	Citations
107	Harnessing Artificial Intelligence to assess the impact of nonpharmaceutical interventions on the second wave of the Coronavirus Disease 2019 pandemic across the world.. <i>Scientific Reports</i> , 2022 , 12, 944	4.9	2
106	Effect of General Cross-Immunity Protection and Antibody-Dependent Enhancement in Dengue Dynamics. <i>Computational and Mathematical Methods</i> , 2022 , 2022, 1-22	0.9	0
105	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
104	Optimizing planning and design of COVID-19 drive-through mass vaccination clinics by simulation. <i>Health and Technology</i> , 2021 , 11, 1-10	2.1	1
103	A renewal equation model to assess roles and limitations of contact tracing for disease outbreak control. <i>Royal Society Open Science</i> , 2021 , 8, 202091	3.3	5
102	Worldwide Trends in Prevalence, Mortality, and Disability-Adjusted Life Years for Hypertensive Heart Disease From 1990 to 2017. <i>Hypertension</i> , 2021 , 77, 1223-1233	8.5	11
101	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
100	Development of the 12-Item Social Media Disinformation Scale and its Association With Social Media Addiction and Mental Health Related to COVID-19 in Tunisia: Survey-Based Pilot Case Study. <i>JMIR Formative Research</i> , 2021 , 5, e27280	2.5	4
99	Illicit Drug Use in Canada and Implications for Suicidal Behaviors, and Household Food Insecurity: Findings from a Large, Nationally Representative Survey. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	2
98	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
97	Large-scale frequent testing and tracing to supplement control of Covid-19 and vaccination rollout constrained by supply. <i>Infectious Disease Modelling</i> , 2021 , 6, 955-974	15.7	3
96	Effectiveness and feasibility of convalescent blood transfusion to reduce COVID-19 fatality ratio. <i>Royal Society Open Science</i> , 2021 , 8, 202248	3.3	5
95	Global, Regional, and National Burden of Myocarditis and Cardiomyopathy, 1990-2017. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 610989	5.4	3
94	Determinants of Aedes mosquito density as an indicator of arbovirus transmission risk in three sites affected by co-circulation of globally spreading arboviruses in Colombia, Ecuador and Argentina. <i>Parasites and Vectors</i> , 2021 , 14, 482	4	1
93	Optimal Reopening Pathways With COVID-19 Vaccine Rollout and Emerging Variants of Concern. <i>Frontiers in Public Health</i> , 2021 , 9, 729141	6	0
92	Associations of sleep problems with health-risk behaviors and psychological well-being among Canadian adults. <i>Sleep Health</i> , 2020 , 6, 657-661	4	4
91	Modelling the impact of antibody-dependent enhancement on disease severity of Zika virus and dengue virus sequential and co-infection. <i>Royal Society Open Science</i> , 2020 , 7, 191749	3.3	7

90	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
89	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
88	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
87	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
86	Estimating Infection Risk of Tick-Borne Encephalitis. <i>Lecture Notes on Mathematical Modelling in the Life Sciences</i> , 2020 , 37-49	0.3	
85	Epidemiology of physical and mental comorbidity in Canada and implications for health-related quality of life, suicidal ideation, and healthcare utilization: A nationwide cross-sectional study. <i>Journal of Affective Disorders</i> , 2020 , 263, 209-215	6.6	6
84	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
83	Quantifying the annual incidence and underestimation of seasonal influenza: A modelling approach. <i>Theoretical Biology and Medical Modelling</i> , 2020 , 17, 11	2.3	3
82	Coupled Systems of Renewal Equations for Forces of Infection through a Contact Network. <i>Canadian Mathematical Bulletin</i> , 2020 , 63, 624-632	0.6	
81	Modelling the linkage between influenza infection and cardiovascular events via thrombosis. <i>Scientific Reports</i> , 2020 , 10, 14264	4.9	2
80	Existence and Uniqueness of Solutions for Abstract Neutral Differential Equations with State-Dependent Delay. <i>Applied Mathematics and Optimization</i> , 2020 , 81, 89-111	1.5	10
79	Existence, Uniqueness and Qualitative Properties of Global Solutions of Abstract Differential Equations with State-Dependent Delay. <i>Proceedings of the Edinburgh Mathematical Society</i> , 2019 , 62, 771-788	0.7	6
78	Assessing systemic and non-systemic transmission risk of tick-borne encephalitis virus in Hungary. <i>PLoS ONE</i> , 2019 , 14, e0217206	3.7	10
77	Association between sleep problems and health-related quality of life in Canadian adults with chronic diseases. <i>Sleep Medicine</i> , 2019 , 61, 26-30	4.6	9
76	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
75	Exponential Stability of Nonlinear Systems With Delayed Impulses and Applications. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 4024-4034	5.9	58
74	How ticks keep ticking in the adversity of host immune reactions. <i>Journal of Mathematical Biology</i> , 2019 , 78, 1331-1364	2	3
73	Global dynamics of an epidemiological model with age-of-infection dependent treatment rate. <i>Ricerche Di Matematica</i> , 2018 , 67, 125-140	0.9	

72	Sufficient Stability Conditions of Nonlinear Differential Systems Under Impulsive Control With State-Dependent Delay. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 306-311	5.9	99
71	Acellular pertussis vaccines effectiveness over time: A systematic review, meta-analysis and modeling study. <i>PLoS ONE</i> , 2018 , 13, e0197970	3.7	16
70	Impulsive control of unstable neural networks with unbounded time-varying delays. <i>Science China Information Sciences</i> , 2018 , 61, 1	3.4	12
69	A conceptual model for optimizing vaccine coverage to reduce vector-borne infections in the presence of antibody-dependent enhancement. <i>Theoretical Biology and Medical Modelling</i> , 2018 , 15, 13	2.3	5
68	Modeling Lyme disease transmission. <i>Infectious Disease Modelling</i> , 2017 , 2, 229-243	15.7	10
67	A simple in-host model for Mycobacterium tuberculosis that captures all infection outcomes. <i>Mathematical Population Studies</i> , 2017 , 24, 37-63	0.8	5
66	Implication of vaccination against dengue for Zika outbreak. <i>Scientific Reports</i> , 2016 , 6, 35623	4.9	26
65	Treatment-donation-stockpile dynamics in ebola convalescent blood transfusion therapy. <i>Journal of Theoretical Biology</i> , 2016 , 392, 53-61	2.3	3
64	Convergence and stability analysis of mean-shift algorithm on large data sets. <i>Statistics and Its Interface</i> , 2016 , 9, 159-170	0.4	0
63	A mathematical model for pathogen cross-contamination dynamics during produce wash. <i>Food Microbiology</i> , 2015 , 51, 101-7	6	15
62	Malaria Models with Spatial Effects. <i>Wiley Series in Probability and Statistics</i> , 2015 , 109-136	1.3	1
61	Mapping the Distribution of Malaria: Current Approaches and Future Directions. <i>Wiley Series in Probability and Statistics</i> , 2015 , 189-209	1.3	4
60	An Integrated Approach for Communicable Disease Geosimulation Based on Epidemiological, Human Mobility and Public Intervention Models. <i>Wiley Series in Probability and Statistics</i> , 2015 , 403-442	1.3	
59	Introduction to Analyzing and Modeling Spatial and Temporal Dynamics of Infectious Diseases. <i>Wiley Series in Probability and Statistics</i> , 2015 , 1-17	1.3	0
58	West Nile Virus Mosquito Abundance Modeling Using Nonstationary Spatiotemporal Geostatistics. <i>Wiley Series in Probability and Statistics</i> , 2015 , 263-282	1.3	1
57	Spatial Pattern Analysis of Multivariate Disease Data. <i>Wiley Series in Probability and Statistics</i> , 2015 , 283-296		
56	Statistical Modeling of Spatiotemporal Infectious Disease Transmission. <i>Wiley Series in Probability and Statistics</i> , 2015 , 211-231	1.3	
55	Spatiotemporal Dynamics of Schistosomiasis in China: Bayesian-Based Geostatistical Analysis. <i>Wiley Series in Probability and Statistics</i> , 2015 , 233-246	1.3	

54	Spatial Analysis and Statistical Modeling of 2009 H1N1 Pandemic in the Greater Toronto Area. <i>Wiley Series in Probability and Statistics, 2015, 247-262</i>	1.3	
53	The ZoonosisMAGS Project (Part 1): Population-Based Geosimulation of Zoonoses in an Informed Virtual Geographic Environment. <i>Wiley Series in Probability and Statistics, 2015, 297-339</i>	1.3	
52	ZoonosisMAGS Project (Part 2): Complementarity of a Rapid-Prototyping Tool and of a Full-Scale Geosimulator for Population-Based Geosimulation of Zoonoses. <i>Wiley Series in Probability and Statistics, 2015, 341-370</i>	1.3	
51	Web Mapping and Behavior Pattern Extraction Tools to Assess Lyme Disease Risk for Humans in Peri-Urban Forests. <i>Wiley Series in Probability and Statistics, 2015, 371-402</i>	1.3	1
50	Modeling the Spread of Infectious Diseases: A Review. <i>Wiley Series in Probability and Statistics, 2015, 19-42</i>	1.3	11
49	Smartphone Trajectories as Data Sources for Agent-Based Infection-Spread Modeling. <i>Wiley Series in Probability and Statistics, 2015, 443-472</i>	1.3	1
48	West Nile Virus Risk Assessment and Forecasting Using Statistical and Dynamical Models. <i>Wiley Series in Probability and Statistics, 2015, 77-95</i>	1.3	
47	Using Mathematical Modeling to Integrate Disease Surveillance and Global Air Transportation Data. <i>Wiley Series in Probability and Statistics, 2015, 97-107</i>	1.3	2
46	Analyzing the Potential Impact of Bird Migration on the Global Spread of H5N1 Avian Influenza (2007-2011) Using Spatiotemporal Mapping Methods. <i>Wiley Series in Probability and Statistics, 2015, 161-176</i>	1.3	
45	Cloud Computing Enabled Cluster Detection Using a Flexibly Shaped Scan Statistic for Real-Time Syndromic Surveillance. <i>Wiley Series in Probability and Statistics, 2015, 177-188</i>	1.3	
44	AGILE: A terminal energy efficient scheduling method in mobile cloud computing. <i>Transactions on Emerging Telecommunications Technologies, 2015, 26, 1323-1336</i>	1.9	4
43	Stage-structured population systems with temporally periodic delay. <i>Mathematical Methods in the Applied Sciences, 2015, 38, 3464-3481</i>	2.3	24
42	Determinants of the Final Size and Case Rate of Nosocomial Outbreaks. <i>PLoS ONE, 2015, 10, e0138216</i>	3.7	2
41	An optimal strategy for HIV multitherapy. <i>Journal of Computational and Applied Mathematics, 2014, 263, 326-337</i>	2.4	18
40	Impact of biodiversity and seasonality on Lyme-pathogen transmission. <i>Theoretical Biology and Medical Modelling, 2014, 11, 50</i>	2.3	20
39	Impact of visitors and hospital staff on nosocomial transmission and spread to community. <i>Journal of Theoretical Biology, 2014, 356, 20-9</i>	2.3	13
38	Quantification of bird-to-bird and bird-to-human infections during 2013 novel H7N9 avian influenza outbreak in China. <i>PLoS ONE, 2014, 9, e111834</i>	3.7	15
37	Characterizing Information Diffusion in Online Social Networks with Linear Diffusive Model 2013,		39

36	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
35	Global dynamics of delayed reaction-diffusion equations in unbounded domains. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2012 , 63, 793-812	1.6	25
34	Projective clustering using neural networks with adaptive delay and signal transmission loss. <i>Neural Computation</i> , 2011 , 23, 1568-604	2.9	4
33	Slowing the evolution of insecticide resistance in mosquitoes: a mathematical model. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2011 , 467, 2127-2148	2.4	23
32	Travelling waves of a diffusive Kermack-McKendrick epidemic model with non-local delayed transmission. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2010 , 466, 237-261	2.4	91
31	Second-order differentiability with respect to parameters for differential equations with adaptive delays. <i>Frontiers of Mathematics in China</i> , 2010 , 5, 221-286	0.8	8
30	Global Continua of Rapidly Oscillating Periodic Solutions of State-Dependent Delay Differential Equations. <i>Journal of Dynamics and Differential Equations</i> , 2010 , 22, 253-284	1.3	11
29	STRUCTURED INFLUENZA MODEL FOR META-POPULATION. <i>International Journal of Biomathematics</i> , 2009 , 02, 525-541	1.8	1
28	Modeling and Simulation Studies of West Nile Virus in Southern Ontario Canada. <i>Series in Contemporary Applied Mathematics</i> , 2009 , 331-343	0	1
27	Modeling SARS, West Nile Virus, Pandemic Influenza and Other Emerging Infectious Diseases: A Canadian Team's Adventure. <i>Series in Contemporary Applied Mathematics</i> , 2009 , 36-63	0	3
26	Association Bundle Identification 2009 , 66-70		
25	COMPLETE CLASSIFICATION OF EQUILIBRIA AND THEIR STABILITY IN A DELAYED NEURON NETWORK. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2008 , 18, 2017-2027	2	3
24	Modelling the evolution of drug resistance in the presence of antiviral drugs. <i>BMC Public Health</i> , 2007 , 7, 300	4.1	8
23	Existence, Uniqueness and Asymptotic Stability of Traveling Wavefronts in A Non-Local Delayed Diffusion Equation. <i>Journal of Dynamics and Differential Equations</i> , 2007 , 19, 391-436	1.3	51
22	Media/Psychological Impact on Multiple Outbreaks of Emerging Infectious Diseases. <i>Computational and Mathematical Methods in Medicine</i> , 2007 , 8, 153-164	2.8	163
21	Travelling waves for delayed reaction-diffusion equations with global response. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2006 , 462, 229-261	2.4	120
20	Association Bundle - A New Pattern for Association Analysis 2006 ,		2
19	A compartmental model for the analysis of SARS transmission patterns and outbreak control measures in China. <i>Applied Mathematics and Computation</i> , 2005 , 162, 909-924	2.7	38

18	MULTIPLE PERIODIC PATTERNS VIA DISCRETE NEURAL NETS WITH DELAYED FEEDBACK LOOPS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2004 , 14, 2915-2923	2	10
17	A new method of Lyapunov functionals for delayed cellular neural networks. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2004 , 51, 2263-2270		10
16	DEFORMATION OF TRAVELING WAVES IN DELAYED CELLULAR NEURAL NETWORKS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2003 , 13, 797-813	2	23
15	External inputs, stable equilibria and complete stability of CNNs. <i>International Journal of Circuit Theory and Applications</i> , 2003 , 31, 133-138	2	1
14	Further results on the stability of delayed cellular neural networks. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2003 , 50, 1239-1242		22
13	Attractive Periodic Orbits in Nonlinear Discrete-time Neural Networks with Delayed Feedback. <i>Journal of Difference Equations and Applications</i> , 2002 , 8, 467-483	1	15
12	Structured population on two patches: modeling dispersal and delay. <i>Journal of Mathematical Biology</i> , 2001 , 43, 37-51	2	42
11	Traveling Wave Fronts of Reaction-Diffusion Systems with Delay. <i>Journal of Dynamics and Differential Equations</i> , 2001 , 13, 651-687	1.3	365
10	Global dynamics of a chemostat competition model with distributed delay. <i>Journal of Mathematical Biology</i> , 1999 , 38, 285-316	2	21
9	Topological transversality and periodic solutions of neutral functional differential equations. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 1999 , 129, 199-220	1	8
8	On a hyperlogistic delay equation. <i>Glasgow Mathematical Journal</i> , 1996 , 38, 255-261	0.4	4
7	Comparison Theorems of Liapunov-Razumikhin Type for NFDEs With Infinite Delay. <i>Canadian Journal of Mathematics</i> , 1995 , 47, 500-526	0.8	3
6	Centre manifolds for partial differential equations with delays*. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 1992 , 122, 237-254	1	43
5	Existence of periodic solutions to integro-differential equations of neutral type via limiting equations. <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , 1992 , 112, 403-418	0.7	9
4	Topological dimensions of global attractors for semilinear PDEs with delays. <i>Bulletin of the Australian Mathematical Society</i> , 1991 , 43, 407-422	0.4	1
3	Monotone Semiflows Generated by Neutral Functional Differential Equations With Application to Compartmental Systems. <i>Canadian Journal of Mathematics</i> , 1991 , 43, 1098-1120	0.8	19
2	Cross immunity protection and antibody dependent enhancement: A distributed delay dynamic model		1
1	Application of spatial multicriteria decision analysis in healthcare: Identifying drivers and triggers of infectious disease outbreaks using ensemble learning. <i>Journal of Multi-Criteria Decision Analysis</i> ,	1.9	1

