

Yanni Xiao

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.

66

papers

2,725

citations

25

h-index

52

g-index

67

ext. papers

3,301

ext. citations

3.5

avg. IF

6.01

L-index

#	Paper	IF	Citations
66	Complex dynamics of an epidemic model with saturated media coverage and recovery.. <i>Nonlinear Dynamics</i> , 2022 , 107, 1-29	5	
65	A cross-infection model with diffusive environmental bacteria. <i>Journal of Mathematical Analysis and Applications</i> , 2022 , 505, 125637	1.1	2
64	Determining travel fluxes in epidemic areas. <i>PLoS Computational Biology</i> , 2021 , 17, e1009473	5	0
63	A threshold policy to curb WNV transmission to birds with seasonality. <i>Nonlinear Analysis: Real World Applications</i> , 2021 , 59, 103273	2.1	2
62	Modeling and analyzing the effects of fixed-time intervention on transmission dynamics of echinococcosis in Qinghai province. <i>Mathematical Methods in the Applied Sciences</i> , 2021 , 44, 4276-4296	2.3	2
61	Linking the disease transmission to information dissemination dynamics: An insight from a multi-scale model study. <i>Journal of Theoretical Biology</i> , 2021 , 526, 110796	2.3	2
60	Coupling the Macroscale to the Microscale in a Spatiotemporal Context to Examine Effects of Spatial Diffusion on Disease Transmission. <i>Bulletin of Mathematical Biology</i> , 2020 , 82, 58	2.1	1
59	Modelling the Periodic Outbreak of Measles in Mainland China. <i>Mathematical Problems in Engineering</i> , 2020 , 2020, 1-13	1.1	1
58	Global dynamics for a Filippov epidemic system with imperfect vaccination. <i>Nonlinear Analysis: Hybrid Systems</i> , 2020 , 38, 100932	4.5	5
57	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
56	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
55	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
54	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
53	When to lift the lockdown in Hubei province during COVID-19 epidemic? An insight from a patch model and multiple source data. <i>Journal of Theoretical Biology</i> , 2020 , 507, 110469	2.3	12
52	Estimation of the reproduction number and identification of periodicity for HFMD infections in northwest China. <i>Journal of Theoretical Biology</i> , 2020 , 484, 110027	2.3	2
51	Dynamical Behavior and Bifurcation Analysis of the SIR Model with Continuous Treatment and State-Dependent Impulsive Control. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2019 , 29, 1950131	2	6
50	A spatial SEIRS reaction-diffusion model in heterogeneous environment. <i>Journal of Differential Equations</i> , 2019 , 267, 5084-5114	2.1	34

49	Global dynamics and cost-effectiveness analysis of HIV pre-exposure prophylaxis and structured treatment interruptions based on a multi-scale model. <i>Applied Mathematical Modelling</i> , 2019 , 75, 162-200	4.5	3
48	Modeling hantavirus infections in mainland China. <i>Applied Mathematics and Computation</i> , 2019 , 360, 28-41	2.7	1
47	Optimal control and cost-effectiveness analysis of a Zika virus infection model with comprehensive interventions. <i>Applied Mathematics and Computation</i> , 2019 , 359, 165-185	2.7	8
46	Optimal media reporting intensity on mitigating spread of an emerging infectious disease. <i>PLoS ONE</i> , 2019 , 14, e0213898	3.7	13
45	Bifurcation analyses and hormetic effects of a discrete-time tumor model. <i>Applied Mathematics and Computation</i> , 2019 , 363, 124618	2.7	2
44	A general model of hormesis in biological systems and its application to pest management. <i>Journal of the Royal Society Interface</i> , 2019 , 16, 20190468	4.1	15
43	Effect of pulse vaccination on dynamics of dengue with periodic transmission functions. <i>Advances in Difference Equations</i> , 2019 , 2019,	3.6	15
42	A two-thresholds policy to interrupt transmission of West Nile Virus to birds. <i>Journal of Theoretical Biology</i> , 2019 , 463, 22-46	2.3	7
41	Air quality index induced nonsmooth system for respiratory infection. <i>Journal of Theoretical Biology</i> , 2019 , 460, 160-169	2.3	3
40	Measuring the impact of air pollution on respiratory infection risk in China. <i>Environmental Pollution</i> , 2018 , 232, 477-486	9.3	39
39	Global hopf bifurcation of a delayed equation describing the lag effect of media impact on the spread of infectious disease. <i>Journal of Mathematical Biology</i> , 2018 , 76, 1249-1267	2	19
38	The cost-effectiveness of oral HIV pre-exposure prophylaxis and early antiretroviral therapy in the presence of drug resistance among men who have sex with men in San Francisco. <i>BMC Medicine</i> , 2018 , 16, 58	11.4	12
37	Dynamics of a Filippov epidemic model with limited hospital beds. <i>Mathematical Biosciences and Engineering</i> , 2018 , 15, 739-764	2.1	22
36	Global Dynamics of a Virus-Immune System with Virus-Guided Therapy and Saturation Growth of Virus. <i>Mathematical Problems in Engineering</i> , 2018 , 2018, 1-18	1.1	5
35	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
34	Multiscale System for Environmentally-Driven Infectious Disease with Threshold Control Strategy. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2018 , 28, 1850064	2	3
33	A piecewise model of virus-immune system with effector cell-guided therapy. <i>Applied Mathematical Modelling</i> , 2017 , 47, 227-248	4.5	13
32	Early antiretroviral therapy and potent second-line drugs could decrease HIV incidence of drug resistance. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017 , 284,	4.4	7

31	Modelling weekly vector control against Dengue in the Guangdong Province of China. <i>Journal of Theoretical Biology</i> , 2016 , 410, 65-76	2.3	27
30	A piecewise model of virus-immune system with two thresholds. <i>Mathematical Biosciences</i> , 2016 , 278, 63-76	3.9	4
29	Implication of vaccination against dengue for Zika outbreak. <i>Scientific Reports</i> , 2016 , 6, 35623	4.9	26
28	Modelling seasonal HFMD infections with the effects of contaminated environments in mainland China. <i>Applied Mathematics and Computation</i> , 2016 , 274, 615-627	2.7	19
27	Modelling the effects of contaminated environments on HFMD infections in mainland China. <i>BioSystems</i> , 2016 , 140, 1-7	1.9	23
26	A Feedback Control Model of Comprehensive Therapy for Treating Immunogenic Tumours. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2016 , 26, 1650039	2	20
25	A threshold policy to interrupt transmission of West Nile Virus to birds. <i>Applied Mathematical Modelling</i> , 2016 , 40, 8794-8809	4.5	9
24	Piecewise virus-immune dynamic model with HIV-1 RNA-guided therapy. <i>Journal of Theoretical Biology</i> , 2015 , 377, 36-46	2.3	17
23	Media impact switching surface during an infectious disease outbreak. <i>Scientific Reports</i> , 2015 , 5, 7838	4.9	97
22	Holling II predator-prey impulsive semi-dynamic model with complex Poincaré map. <i>Nonlinear Dynamics</i> , 2015 , 81, 1575-1596	5	52
21	Models of impulsive culling of mosquitoes to interrupt transmission of West Nile virus to birds. <i>Applied Mathematical Modelling</i> , 2015 , 39, 3549-3568	4.5	15
20	Global stability of an infection-age structured HIV-1 model linking within-host and between-host dynamics. <i>Mathematical Biosciences</i> , 2015 , 263, 37-50	3.9	39
19	A Filippov system describing media effects on the spread of infectious diseases. <i>Nonlinear Analysis: Hybrid Systems</i> , 2014 , 11, 84-97	4.5	62
18	Non-smooth plant disease models with economic thresholds. <i>Mathematical Biosciences</i> , 2013 , 241, 34-48	3.9	37
17	Modeling antiretroviral drug responses for HIV-1 infected patients using differential equation models. <i>Advanced Drug Delivery Reviews</i> , 2013 , 65, 940-53	18.5	42
16	Pulse HIV vaccination: feasibility for virus eradication and optimal vaccination schedule. <i>Bulletin of Mathematical Biology</i> , 2013 , 75, 725-51	2.1	20
15	SLIDING BIFURCATION AND GLOBAL DYNAMICS OF A FILIPPOV EPIDEMIC MODEL WITH VACCINATION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2013 , 23, 1350144	2	17
14	Dynamics of an infectious diseases with media/psychology induced non-smooth incidence. <i>Mathematical Biosciences and Engineering</i> , 2013 , 10, 445-61	2.1	84

13	A mathematical model of effects of environmental contamination and presence of volunteers on hospital infections in China. <i>Journal of Theoretical Biology</i> , 2012 , 293, 161-73	2.3	29
12	Campus quarantine (Fengxiao) for curbing emergent infectious diseases: lessons from mitigating A/H1N1 in Xi'an, China. <i>Journal of Theoretical Biology</i> , 2012 , 295, 47-58	2.3	42
11	Piecewise HIV virus dynamic model with CD4(+) T cell count-guided therapy: I. <i>Journal of Theoretical Biology</i> , 2012 , 308, 123-34	2.3	33
10	Threshold dynamics for compartmental epidemic models with impulses. <i>Nonlinear Analysis: Real World Applications</i> , 2012 , 13, 224-234	2.1	33
9	Sliding Bifurcations of Filippov Two Stage Pest Control Models with Economic Thresholds. <i>SIAM Journal on Applied Mathematics</i> , 2012 , 72, 1061-1080	1.8	82
8	Sliding mode control of outbreaks of emerging infectious diseases. <i>Bulletin of Mathematical Biology</i> , 2012 , 74, 2403-22	2.1	69
7	MODELING STRATEGIES FOR CONTROLLING H1N1 OUTBREAKS IN CHINA. <i>International Journal of Biomathematics</i> , 2012 , 05, 1250017	1.8	2
6	Community-based measures for mitigating the 2009 H1N1 pandemic in China. <i>PLoS ONE</i> , 2010 , 5, e109117	1.7	58
5	The effects of population dispersal and pulse vaccination on disease control. <i>Mathematical and Computer Modelling</i> , 2010 , 52, 1591-1604		21
4	Dynamical analysis of plant disease models with cultural control strategies and economic thresholds. <i>Mathematics and Computers in Simulation</i> , 2010 , 80, 894-921	3.3	42
3	Multiple attractors of host-parasitoid models with integrated pest management strategies: eradication, persistence and outbreak. <i>Theoretical Population Biology</i> , 2008 , 73, 181-97	1.2	70
2	New modelling approach concerning integrated disease control and cost-effectivity. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2005 , 63, 439-471	1.3	38
1	Modelling the epidemic trend of the 2019 novel coronavirus outbreak in China		104