Yanni Xiao

List of Publications by Year in descending order

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65 papers	3,971 citations	218592 26 h-index	133188 59 g-index
67 all docs	67 docs citations	67 times ranked	3683 citing authors

#	Article	IF	Citations
1	Estimation of the Transmission Risk of the 2019-nCoV and Its Implication for Public Health Interventions. Journal of Clinical Medicine, 2020, 9, 462.	1.0	1,048
2	An updated estimation of the risk of transmission of the novel coronavirus (2019-nCov). Infectious Disease Modelling, 2020, 5, 248-255.	1.2	573
3	The effectiveness of quarantine and isolation determine the trend of the COVID-19 epidemics in the final phase of the current outbreak in China. International Journal of Infectious Diseases, 2020, 95, 288-293.	1.5	212
4	Media impact switching surface during an infectious disease outbreak. Scientific Reports, 2015, 5, 7838.	1.6	138
5	Dynamics of an infectious diseases with media/psychology induced non-smooth incidence. Mathematical Biosciences and Engineering, 2013, 10, 445-461.	1.0	118
6	Sliding Bifurcations of Filippov Two Stage Pest Control Models with Economic Thresholds. SIAM Journal on Applied Mathematics, 2012, 72, 1061-1080.	0.8	113
7	Sliding Mode Control of Outbreaks of Emerging Infectious Diseases. Bulletin of Mathematical Biology, 2012, 74, 2403-2422.	0.9	95
8	A Filippov system describing media effects on the spread of infectious diseases. Nonlinear Analysis: Hybrid Systems, 2014, 11, 84-97.	2.1	83
9	A spatial SEIRS reaction-diffusion model in heterogeneous environment. Journal of Differential Equations, 2019, 267, 5084-5114.	1.1	79
10	Multiple attractors of hostâ€“parasitoid models with integrated pest management strategies: Eradication, persistence and outbreak. Theoretical Population Biology, 2008, 73, 181-197.	0.5	78
11	Holling II predatorâ€“prey impulsive semi-dynamic model with complex PoincarÃ© map. Nonlinear Dynamics, 2015, 81, 1575-1596.	2.7	78
12	Community-Based Measures for Mitigating the 2009 H1N1 Pandemic in China. PLoS ONE, 2010, 5, e10911.	1.1	68
13	Measuring the impact of air pollution on respiratory infection risk in China. Environmental Pollution, 2018, 232, 477-486.	3.7	59
14	Dynamical analysis of plant disease models with cultural control strategies and economic thresholds. Mathematics and Computers in Simulation, 2010, 80, 894-921.	2.4	57
15	Global stability of an infection-age structured HIV-1 model linking within-host and between-host dynamics. Mathematical Biosciences, 2015, 263, 37-50.	0.9	55
16	Campus quarantine (Fengxiao) for curbing emergent infectious diseases: Lessons from mitigating A/H1N1 in Xi'an, China. Journal of Theoretical Biology, 2012, 295, 47-58.	0.8	51
17	New modelling approach concerning integrated disease control and cost-effectivity. Nonlinear Analysis: Theory, Methods & Applications, 2005, 63, 439-471.	0.6	47
18	Non-smooth plant disease models with economic thresholds. Mathematical Biosciences, 2013, 241, 34-48.	0.9	47

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19	Modeling antiretroviral drug responses for HIV-1 infected patients using differential equation models. Advanced Drug Delivery Reviews, 2013, 65, 940-953.	6.6	45
20	Threshold dynamics for compartmental epidemic models with impulses. Nonlinear Analysis: Real World Applications, 2012, 13, 224-234.	0.9	39
21	Piecewise HIV virus dynamic model with CD4+ T cell count-guided therapy: I. Journal of Theoretical Biology, 2012, 308, 123-134.	0.8	38
22	A mathematical model of effects of environmental contamination and presence of volunteers on hospital infections in China. Journal of Theoretical Biology, 2012, 293, 161-173.	0.8	37
23	Implication of vaccination against dengue for Zika outbreak. Scientific Reports, 2016, 6, 35623.	1.6	36
24	Modelling weekly vector control against Dengue in the Guangdong Province of China. Journal of Theoretical Biology, 2016, 410, 65-76.	0.8	35
25	Modelling the effects of contaminated environments on HFMD infections in mainland China. BioSystems, 2016, 140, 1-7.	0.9	34
26	Global hopf bifurcation of a delayed equation describing the lag effect of media impact on the spread of infectious disease. Journal of Mathematical Biology, 2018, 76, 1249-1267.	0.8	32
27	A general model of hormesis in biological systems and its application to pest management. Journal of the Royal Society Interface, 2019, 16, 20190468.	1.5	29
28	Dynamics of a Filippov epidemic model with limited hospital beds. Mathematical Biosciences and Engineering, 2018, 15, 739-764.	1.0	28
29	A Feedback Control Model of Comprehensive Therapy for Treating Immunogenic Tumours. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650039.	0.7	27
30	Pulse HIV Vaccination: Feasibility for Virus Eradication and Optimal Vaccination Schedule. Bulletin of Mathematical Biology, 2013, 75, 725-751.	0.9	26
31	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. BMC Medicine, 2018, 16, 58.	2.3	25
32	SLIDING BIFURCATION AND GLOBAL DYNAMICS OF A FILIPPOV EPIDEMIC MODEL WITH VACCINATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350144.	0.7	24
33	Modelling seasonal HFMD infections with the effects of contaminated environments in mainland China. Applied Mathematics and Computation, 2016, 274, 615-627.	1.4	24
34	Models of impulsive culling of mosquitoes to interrupt transmission of West Nile virus to birds. Applied Mathematical Modelling, 2015, 39, 3549-3568.	2.2	23
35	Optimal media reporting intensity on mitigating spread of an emerging infectious disease. PLoS ONE, 2019, 14, e0213898.	1.1	23
36	The effects of population dispersal and pulse vaccination on disease control. Mathematical and Computer Modelling, 2010, 52, 1591-1604.	2.0	22

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37	Effect of pulse vaccination on dynamics of dengue with periodic transmission functions. Advances in Difference Equations, 2019, 2019, .	3.5	22
38	Piecewise virus-immune dynamic model with HIV-1 RNA-guided therapy. Journal of Theoretical Biology, 2015, 377, 36-46.	0.8	21
39	Optimal control and cost-effectiveness analysis of a Zika virus infection model with comprehensive interventions. Applied Mathematics and Computation, 2019, 359, 165-185.	1.4	20
40	Modelling the impact of antibody-dependent enhancement on disease severity of Zika virus and dengue virus sequential and co-infection. Royal Society Open Science, 2020, 7, 191749.	1.1	20
41	A threshold policy to interrupt transmission of West Nile Virus to birds. Applied Mathematical Modelling, 2016, 40, 8794-8809.	2.2	19
42	A piecewise model of virus-immune system with effector cell-guided therapy. Applied Mathematical Modelling, 2017, 47, 227-248.	2.2	15
43	When to lift the lockdown in Hubei province during COVID-19 epidemic? An insight from a patch model and multiple source data. Journal of Theoretical Biology, 2020, 507, 110469.	0.8	15
44	A two-thresholds policy to interrupt transmission of West Nile Virus to birds. Journal of Theoretical Biology, 2019, 463, 22-46.	0.8	14
45	Early antiretroviral therapy and potent second-line drugs could decrease HIV incidence of drug resistance. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170525.	1.2	10
46	Dynamical Behavior and Bifurcation Analysis of the SIR Model with Continuous Treatment and State-Dependent Impulsive Control. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1950131.	0.7	10
47	Global dynamics and cost-effectiveness analysis of HIV pre-exposure prophylaxis and structured treatment interruptions based on a multi-scale model. Applied Mathematical Modelling, 2019, 75, 162-200.	2.2	10
48	Linking the disease transmission to information dissemination dynamics: An insight from a multi-scale model study. Journal of Theoretical Biology, 2021, 526, 110796.	0.8	10
49	Global dynamics for a Filippov epidemic system with imperfect vaccination. Nonlinear Analysis: Hybrid Systems, 2020, 38, 100932.	2.1	9
50	A conceptual model for optimizing vaccine coverage to reduce vector-borne infections in the presence of antibody-dependent enhancement. Theoretical Biology and Medical Modelling, 2018, 15, 13.	2.1	8
51	Air quality index induced nonsmooth system for respiratory infection. Journal of Theoretical Biology, 2019, 460, 160-169.	0.8	8
52	Estimation of the reproduction number and identification of periodicity for HFMD infections in northwest China. Journal of Theoretical Biology, 2020, 484, 110027.	0.8	8
53	Complex dynamics of an epidemic model with saturated media coverage and recovery. Nonlinear Dynamics, 2022, 107, 2995-3023.	2.7	8
54	A piecewise model of virus-immune system with two thresholds. Mathematical Biosciences, 2016, 278, 63-76.	0.9	7

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55	Modeling hantavirus infections in mainland China. Applied Mathematics and Computation, 2019, 360, 28-41.	1.4	7
56	Coupling the Macroscale to the Microscale in a Spatiotemporal Context to Examine Effects of Spatial Diffusion on Disease Transmission. Bulletin of Mathematical Biology, 2020, 82, 58.	0.9	7
57	Global Dynamics of a Virus-Immune System with Virus-Guided Therapy and Saturation Growth of Virus. Mathematical Problems in Engineering, 2018, 2018, 1-18.	0.6	6
58	Multiscale System for Environmentally-Driven Infectious Disease with Threshold Control Strategy. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1850064.	0.7	6
59	A cross-infection model with diffusive environmental bacteria. Journal of Mathematical Analysis and Applications, 2022, 505, 125637.	0.5	5
60	Bifurcation analyses and hormetic effects of a discrete-time tumor model. Applied Mathematics and Computation, 2019, 363, 124618.	1.4	4
61	A threshold policy to curb WNV transmission to birds with seasonality. Nonlinear Analysis: Real World Applications, 2021, 59, 103273.	0.9	4
62	Modeling and analyzing the effects of fixedâ€time intervention on transmission dynamics of echinococcosis in Qinghai province. Mathematical Methods in the Applied Sciences, 2021, 44, 4276-4296.	1.2	4
63	Modelling the Periodic Outbreak of Measles in Mainland China. Mathematical Problems in Engineering, 2020, 2020, 1-13.	0.6	3
64	MODELING STRATEGIES FOR CONTROLLING H1N1 OUTBREAKS IN CHINA. International Journal of Biomathematics, 2012, 05, 1250017.	1.5	2
65	Determining travel fluxes in epidemic areas. PLoS Computational Biology, 2021, 17, e1009473.	1.5	1