Xia Wang

List of Publications by Year in Descending Order

57 papers	**1,418** citations	**16** h-index	**37** g-index
60 ext. papers	**1,773** ext. citations	**3.3** avg, IF	**5.4** L-index

#	Paper	IF	Citations
57	The Epidemic Risk of Dengue Fever in Japan: Climate Change and Seasonality. *Canadian Journal of Infectious Diseases and Medical Microbiology*, **2021**, 2021, 6699788	2.6	1
56	Evidence for a Causal Relationship between the Solar Cycle and Locust Abundance. *Agronomy*, **2021**, 11, 69	3.6	1
55	Effects of medical resource capacities and intensities of public mitigation measures on outcomes of COVID-19 outbreaks. *BMC Public Health*, **2021**, 21, 605	4.1	4
54	Assessing effects of reopening policies on COVID-19 pandemic in Texas with a data-driven transmission model. *Infectious Disease Modelling*, **2021**, 6, 461-473	15.7	3
53	Lessons drawn from China and South Korea for managing COVID-19 epidemic: Insights from a comparative modeling study.. *ISA Transactions*, **2021**,	5.5	2
52	Estimation of the Transmission Risk of the 2019-nCoV and Its Implication for Public Health Interventions. *Journal of Clinical Medicine*, **2020**, 9,	5.1	707
51	Threshold dynamics of an HIV infection model with two distinct cell subsets. *Applied Mathematics Letters*, **2020**, 103, 106242	3.5	2
50	Asymptotic analysis of a vector-borne disease model with the age of infection. *Journal of Biological Dynamics*, **2020**, 14, 332-367	2.4	1
49	Evaluation and prediction of the COVID-19 variations at different input population and quarantine strategies, a case study in Guangdong province, China. *International Journal of Infectious Diseases*, **2020**, 95, 231-240	10.5	34
48	Phase-adjusted estimation of the COVID-19 outbreak in South Korea under multi-source data and adjustment measures: a modelling study. *Mathematical Biosciences and Engineering*, **2020**, 17, 3637-3648	2.1	6
47	Global dynamics of a delayed diffusive virus infection model with cell-mediated immunity and cell-to-cell transmission. *Mathematical Biosciences and Engineering*, **2020**, 17, 4678-4705	2.1	1
46	An Age-Structured Model of HIV Latent Infection with Two Transmission Routes: Analysis and Optimal Control. *Complexity*, **2020**, 2020, 1-22	1.6	1
45	Impact of Hospital Bed Shortages on the Containment of COVID-19 in Wuhan. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	12
44	Global dynamics of a cholera model with age structures and multiple transmission modes. *International Journal of Biomathematics*, **2019**, 12, 1950051	1.8	0
43	A combination of climatic conditions determines major within-season dengue outbreaks in Guangdong Province, China. *Parasites and Vectors*, **2019**, 12, 45	4	8
42	HIV low viral load persistence under treatment: Insights from a model of cell-to-cell viral transmission. *Applied Mathematics Letters*, **2019**, 94, 44-51	3.5	10
41	A general model of hormesis in biological systems and its application to pest management. *Journal of the Royal Society Interface*, **2019**, 16, 20190468	4.1	15

40	Hopf bifurcation in a CTL-inclusive HIV-1 infection model with two time delays. *Mathematical Biosciences and Engineering*, **2019**, 16, 2587-2612	2.1	15
39	Global dynamics of non-smooth Filippov pest-natural enemy system with constant releasing rate. *Mathematical Biosciences and Engineering*, **2019**, 16, 7327-7361	2.1	7
38	Global dynamics of a vector-borne disease model with infection ages and general incidence rates. *Computational and Applied Mathematics*, **2018**, 37, 4055-4080		7
37	Dynamics of an age-structured host-vector model for malaria transmission. *Mathematical Methods in the Applied Sciences*, **2018**, 41, 1966-1987	2.3	8
36	Measuring the impact of air pollution on respiratory infection risk in China. *Environmental Pollution*, **2018**, 232, 477-486	9.3	39
35	An age-structured epidemic model with waning immunity and general nonlinear incidence rate. *International Journal of Biomathematics*, **2018**, 11, 1850069	1.8	4
34	An age-structured vector-borne disease model with horizontal transmission in the host. *Mathematical Biosciences and Engineering*, **2018**, 15, 1099-1116	2.1	0
33	Analysis of HIV models with two time delays. *Journal of Biological Dynamics*, **2017**, 11, 40-64	2.4	22
32	Age-Structured Within-Host HIV Dynamics with Multiple Target Cells. *Studies in Applied Mathematics*, **2017**, 138, 43-76	2.1	16
31	Data informed analysis of 2014 dengue fever outbreak in Guangzhou: Impact of multiple environmental factors and vector control. *Journal of Theoretical Biology*, **2017**, 416, 161-179	2.3	6
30	Cumulative effects of incorrect use of pesticides can lead to catastrophic outbreaks of pests. *Chaos, Solitons and Fractals*, **2017**, 100, 7-19	9.3	4
29	Influence of raltegravir intensification on viral load and 2-LTR dynamics in HIV patients on suppressive antiretroviral therapy. *Journal of Theoretical Biology*, **2017**, 416, 16-27	2.3	10
28	A Holling Type II Pest and Natural Enemy Model with Density Dependent IPM Strategy. *Mathematical Problems in Engineering*, **2017**, 2017, 1-12	1.1	5
27	Mathematical analysis of an HIV latent infection model including both virus-to-cell infection and cell-to-cell transmission. *Journal of Biological Dynamics*, **2017**, 11, 455-483	2.4	46
26	Stability analysis for delayed viral infection model with multitarget cells and general incidence rate. *International Journal of Biomathematics*, **2016**, 09, 1650007	1.8	2
25	Dynamics of an HIV Model with Multiple Infection Stages and Treatment with Different Drug Classes. *Bulletin of Mathematical Biology*, **2016**, 78, 322-49	2.1	17
24	Analysis of HIV models with multiple target cell populations and general nonlinear rates of viral infection and cell death. *Mathematics and Computers in Simulation*, **2016**, 124, 87-103	3.3	8
23	A stage structured mosquito model incorporating effects of precipitation and daily temperature fluctuations. *Journal of Theoretical Biology*, **2016**, 411, 27-36	2.3	19

22	A within-host virus model with multiple infected stages under time-varying environments. *Applied Mathematics and Computation*, **2015**, 266, 119-134	2.7	2
21	GLOBAL ANALYSIS OF AN EXTENDED HIV DYNAMICS MODEL WITH GENERAL INCIDENCE RATE. *Journal of Biological Systems*, **2015**, 23, 401-421	1.6	
20	Permanence and extinction of a non-autonomous HIV-1 model with time delays. *Discrete and Continuous Dynamical Systems - Series B*, **2014**, 19, 1783-1800	1.3	6
19	A class of delayed viral models with saturation infection rate and immune response. *Mathematical Methods in the Applied Sciences*, **2013**, 36, 125-142	2.3	36
18	A class of delayed virus dynamics models with multiple target cells. *Computational and Applied Mathematics*, **2013**, 32, 211-229		5
17	DYNAMICS OF A NON-AUTONOMOUS HIV-1 INFECTION MODEL WITH DELAYS. *International Journal of Biomathematics*, **2013**, 06, 1350030	1.8	6
16	Global properties of a delayed HIV infection model with CTL immune response. *Applied Mathematics and Computation*, **2012**, 218, 9405-9414	2.7	44
15	Global properties of a delayed SIR epidemic model with multiple parallel infectious stages. *Mathematical Biosciences and Engineering*, **2012**, 9, 685-95	2.1	9
14	Dynamical behavior of a pest management model with impulsive effect and nonlinear incidence rate. *Computational and Applied Mathematics*, **2011**, 30, 381-398	2.4	2
13	Analysis of pest-epidemic model by releasing diseased pest with impulsive transmission. *Nonlinear Dynamics*, **2011**, 65, 175-185	5	13
12	Global stability of a virus dynamics model with Beddington−DeAngelis incidence rate and CTL immune response. *Nonlinear Dynamics*, **2011**, 66, 825-830	5	44
11	Effect of prey refuge on a harvested predator−prey model with generalized functional response. *Communications in Nonlinear Science and Numerical Simulation*, **2011**, 16, 1052-1059	3.7	39
10	A delayed HIV-1 infection model with Beddington−DeAngelis functional response. *Nonlinear Dynamics*, **2010**, 62, 67-72	5	37
9	Stability and Hopf bifurcation on a model for HIV infection of CD4+ T cells with delay. *Chaos, Solitons and Fractals*, **2009**, 42, 1838-1844	9.3	6
8	Pulse vaccination on SEIR epidemic model with nonlinear incidence rate. *Applied Mathematics and Computation*, **2009**, 210, 398-404	2.7	14
7	Mathematical model for the control of a pest population with impulsive perturbations on diseased pest. *Applied Mathematical Modelling*, **2009**, 33, 3099-3106	4.5	16
6	Analysis of a stage structured predator−prey Gompertz model with disturbing pulse and delay. *Applied Mathematical Modelling*, **2009**, 33, 4231-4240	4.5	6
5	LYAPUNOV FUNCTION AND GLOBAL PROPERTIES OF VIRUS DYNAMICS WITH CTL IMMUNE RESPONSE. *International Journal of Biomathematics*, **2008**, 01, 443-448	1.8	20

LIST OF PUBLICATIONS

4	Mathematical models for the control of a pest population by infected pest. *Computers and Mathematics With Applications*, **2008**, 56, 266-278	2.7	27
3	Global stability and periodic solution of a model for HIV infection of CD4+ T cells. *Applied Mathematics and Computation*, **2007**, 189, 1331-1340	2.7	24
2	GLOBAL PROPERTIES OF A MODEL OF IMMUNE EFFECTOR RESPONSES TO VIRAL INFECTIONS. *International Journal of Modeling, Simulation, and Scientific Computing*, **2007**, 10, 495-503	0.8	5
1	Lessons drawn from China and South Korea for managing COVID-19 epidemic: insights from a comparative modeling study		14