Biao Tang

List of Publications by Year in Descending Order

38 papers	1,725 citations	15 h-index	41 g-index
43 ext. papers	2,238 ext. citations	4.1 avg, IF	5.76 L-index

#	Paper	IF	Citations
38	Bifurcation and Dynamic Analyses of Non-monotonic Predator-Prey System with Constant Releasing Rate of Predators. *Qualitative Theory of Dynamical Systems*, **2022**, 21, 1	0.8	0
37	A novel hybrid model of tumor control, combining pulse surveillance with tumor size-guided therapies. *Applied Mathematical Modelling*, **2021**, 104, 259-259	4.5	1
36	Estimating the Instantaneous Asymptomatic Proportion With a Simple Approach: Exemplified With the Publicly Available COVID-19 Surveillance Data in Hong Kong. *Frontiers in Public Health*, **2021**, 9, 604455	6	3
35	Estimating the generation interval and inferring the latent period of COVID-19 from the contact tracing data. *Epidemics*, **2021**, 36, 100482	5.1	12
34	Shrinkage in serial intervals across transmission generations of COVID-19. *Journal of Theoretical Biology*, **2021**, 529, 110861	2.3	
33	Modeling and analyzing cross-transmission dynamics of related information co-propagation. *Scientific Reports*, **2021**, 11, 268	4.9	0
32	Lessons drawn from China and South Korea for managing COVID-19 epidemic: Insights from a comparative modeling study.. *ISA Transactions*, **2021**,	5.5	2
31	Modeling the impact of mass influenza vaccination and public health interventions on COVID-19 epidemics with limited detection capability. *Mathematical Biosciences*, **2020**, 325, 108378	3.9	74
30	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. *Biology*, **2020**, 9,	4.9	29
29	Forecasting COVID-19-Associated Hospitalizations under Different Levels of Social Distancing in Lombardy and Emilia-Romagna, Northern Italy: Results from an Extended SEIR Compartmental Model. *Journal of Clinical Medicine*, **2020**, 9,	5.1	28
28	Canard Phenomenon in an SIRS Epidemic Model with Nonlinear Incidence Rate. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2020**, 30, 2050073	2	3
27	Linking key intervention timing to rapid decline of the COVID-19 effective reproductive number to quantify lessons from mainland China. *International Journal of Infectious Diseases*, **2020**, 97, 296-298	10.5	12
26	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	3.3	7
25	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
24	An updated estimation of the risk of transmission of the novel coronavirus (2019-nCov). *Infectious Disease Modelling*, **2020**, 5, 248-255	15.7	378
23	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	10.5	138
22	Quantifying the role of social distancing, personal protection and case detection in mitigating COVID-19 outbreak in Ontario, Canada. *Journal of Mathematics in Industry*, **2020**, 10, 15	2.9	28

21	Quantifying the shift in social contact patterns in response to non-pharmaceutical interventions. *Journal of Mathematics in Industry*, **2020**, 10, 28	2.9	8
20	Bifurcation Analysis of a Generalized Impulsive Kolmogorov Model With Applications to Pest and Disease Control. *SIAM Journal on Applied Mathematics*, **2020**, 80, 1796-1819	1.8	7
19	Modelling and Analyzing Virus Mutation Dynamics of Chikungunya Outbreaks. *Scientific Reports*, **2019**, 9, 2860	4.9	9
18	The State-Dependent Impulsive Model with Action Threshold Depending on the Pest Density and Its Changing Rate. *Complexity*, **2019**, 2019, 1-15	1.6	3
17	Global dynamics of a nonlinear state-dependent feedback control ecological model with a multiple-hump discrete map. *Communications in Nonlinear Science and Numerical Simulation*, **2019**, 79, 104900	3.7	5
16	Implication of sexual transmission of Zika on dengue and Zika outbreaks. *Mathematical Biosciences and Engineering*, **2019**, 16, 5092-5113	2.1	4
15	Vaccination threshold size and backward bifurcation of SIR model with state-dependent pulse control. *Journal of Theoretical Biology*, **2018**, 455, 75-85	2.3	18
14	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	2.3	5
13	A piecewise model of virus-immune system with effector cell-guided therapy. *Applied Mathematical Modelling*, **2017**, 47, 227-248	4.5	13
12	Modelling weekly vector control against Dengue in the Guangdong Province of China. *Journal of Theoretical Biology*, **2016**, 410, 65-76	2.3	27
11	A piecewise model of virus-immune system with two thresholds. *Mathematical Biosciences*, **2016**, 278, 63-76	3.9	4
10	Implication of vaccination against dengue for Zika outbreak. *Scientific Reports*, **2016**, 6, 35623	4.9	26
9	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	2	20
8	Piecewise virus-immune dynamic model with HIV-1 RNA-guided therapy. *Journal of Theoretical Biology*, **2015**, 377, 36-46	2.3	17
7	Bifurcation analysis of a predator–prey model with anti-predator behaviour. *Chaos, Solitons and Fractals*, **2015**, 70, 58-68	9.3	23
6	Holling II predator–prey impulsive semi-dynamic model with complex Poincaré map. *Nonlinear Dynamics*, **2015**, 81, 1575-1596	5	52
5	Lessons drawn from China and South Korea for managing COVID-19 epidemic: insights from a comparative modeling study		14
4	Stochastic discrete epidemic modeling of COVID-19 transmission in the Province of Shaanxi incorporating public health intervention and case importation		10

3	Lessons drawn from China and South Korea for managing COVID-19 epidemic: insights from a comparative modeling study	10
2	The challenges of the coming mass vaccination and exit strategy in prevention and control of COVID-19, a modelling study	3
1	Controlling multiple COVID-19 epidemic waves: an insight from a multi-scale model linking the behavior change dynamics to the disease transmission dynamics	2