

Weiming Wang

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.

128 papers	4,343 citations	31 h-index	63 g-index
133 ext. papers	5,181 ext. citations	3.1 avg, IF	6.27 L-index

#	Paper	IF	Citations
128	The Heterogeneous Severity of COVID-19 in African Countries: A Modeling Approach.. <i>Bulletin of Mathematical Biology</i> , 2022 , 84, 32	2.1	4
127	Complex dynamics in an eco-epidemiological model with the cost of anti-predator behaviors. <i>Nonlinear Dynamics</i> , 2022 , 107, 3127	5	5
126	Bifurcation analysis and chaos control of a discrete-time prey-predator model with fear factor. <i>Mathematical Biosciences and Engineering</i> , 2022 , 19, 6659-6679	2.1	0
125	Dynamics of a stochastic HBV infection model with drug therapy and immune response. <i>Mathematical Biosciences and Engineering</i> , 2022 , 19, 7570-7585	2.1	0
124	Modelling COVID-19 outbreak on the Diamond Princess ship using the public surveillance data. <i>Infectious Disease Modelling</i> , 2022 , 7, 189-195	15.7	
123	Estimating the time interval between transmission generations and the presymptomatic period by contact tracing surveillance data from 31 provinces in the mainland of China. <i>Fundamental Research</i> , 2021 , 1, 104-110		1
122	Modelling the effects of the contaminated environments on tuberculosis in Jiangsu, China. <i>Journal of Theoretical Biology</i> , 2021 , 508, 110453	2.3	9
121	On regularity of the 3D MHD equations based on one velocity component in anisotropic Lebesgue spaces. <i>Applied Mathematics Letters</i> , 2021 , 120, 107230	3.5	2
120	Shrinkage in serial intervals across transmission generations of COVID-19. <i>Journal of Theoretical Biology</i> , 2021 , 529, 110861	2.3	
119	An analysis on the trend of AIDS/HIV incidence in Chongqing and Shenzhen, China from 2005-2015 based on Age-Period-Cohort model. <i>Mathematical Biosciences and Engineering</i> , 2021 , 18, 6961-6977	2.1	1
118	Finite-Time Synchronization for a Class of Multiweighted Complex Networks with Markovian Switching and Time-Varying Delay. <i>Complexity</i> , 2020 , 2020, 1-25	1.6	
117	Quantifying the improvement in confirmation efficiency of the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) during the early phase of the outbreak in Hong Kong in 2020. <i>International Journal of Infectious Diseases</i> , 2020 , 96, 284-287	10.5	4
116	Non-constant positive steady states of a host-parasite model with frequency- and density-dependent transmissions. <i>Journal of the Franklin Institute</i> , 2020 , 357, 4392-4413	4	3
115	Serial interval in determining the estimation of reproduction number of the novel coronavirus disease (COVID-19) during the early outbreak. <i>Journal of Travel Medicine</i> , 2020 , 27,	12.9	33
114	A conceptual model for the coronavirus disease 2019 (COVID-19) outbreak in Wuhan, China with individual reaction and governmental action. <i>International Journal of Infectious Diseases</i> , 2020 , 93, 211-216	10.5	566
113	COVID-19 and gender-specific difference: Analysis of public surveillance data in Hong Kong and Shenzhen, China, from January 10 to February 15, 2020. <i>Infection Control and Hospital Epidemiology</i> , 2020 , 41, 750-751	2	42
112	Optimal Control Strategies of HFMD in Wenzhou, China. <i>Complexity</i> , 2020 , 2020, 1-15	1.6	1

111	The basic reproduction number of novel coronavirus (2019-nCoV) estimation based on exponential growth in the early outbreak in China from 2019 to 2020: A reply to Dhungana. <i>International Journal of Infectious Diseases</i> , 2020 , 94, 148-150	10.5	20
110	Preliminary estimation of the basic reproduction number of novel coronavirus (2019-nCoV) in China, from 2019 to 2020: A data-driven analysis in the early phase of the outbreak. <i>International Journal of Infectious Diseases</i> , 2020 , 92, 214-217	10.5	1027
109	Estimating the Unreported Number of Novel Coronavirus (2019-nCoV) Cases in China in the First Half of January 2020: A Data-Driven Modelling Analysis of the Early Outbreak. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	273
108	Conditional regularity for the 3D MHD equations in the critical Besov space. <i>Applied Mathematics Letters</i> , 2020 , 102, 106119	3.5	9
107	The fluctuation impact of human mobility on the influenza transmission. <i>Journal of the Franklin Institute</i> , 2020 , 357, 8899-8924	4	9
106	Impact of the Fear Effect on the Stability and Bifurcation of a Leslie-Tower Predator-Prey Model. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2020 , 30, 2050210	2	4
105	Estimation of Local Novel Coronavirus (COVID-19) Cases in Wuhan, China from Off-Site Reported Cases and Population Flow Data from Different Sources. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	2
104	Estimating the Serial Interval of the Novel Coronavirus Disease (COVID-19): A Statistical Analysis Using the Public Data in Hong Kong From January 16 to February 15, 2020. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	34
103	A stochastic epidemic model coupled with seasonal air pollution: analysis and data fitting. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020 , 34, 2245-2257	3.5	3
102	Bifurcation and Turing pattern formation in a diffusive ratio-dependent predator-prey model with predator harvesting. <i>Nonlinear Analysis: Real World Applications</i> , 2020 , 51, 102962	2.1	12
101	Global transmission dynamics of a Zika virus model. <i>Applied Mathematics Letters</i> , 2019 , 92, 190-195	3.5	33
100	A stochastic SIS model driven by random diffusion of air pollutants. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 532, 121759	3.3	11
99	Optimal harvesting policy of logistic population model in a randomly fluctuating environment. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 526, 120817	3.3	11
98	Impact of the fear effect in a prey-predator model incorporating a prey refuge. <i>Applied Mathematics and Computation</i> , 2019 , 356, 328-337	2.7	81
97	Pattern formation in a reaction-diffusion parasite-host model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 525, 732-740	3.3	7
96	The effect of the fear factor on the dynamics of a predator-prey model incorporating the prey refuge. <i>Chaos</i> , 2019 , 29, 083109	3.3	45
95	Age-Period-Cohort Analysis on the Time Trend of Hepatitis B Incidence in Four Prefectures of Southern Xinjiang, China from 2005 to 2017. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	1
94	Dynamics and asymptotic profiles of steady states of an SIRS epidemic model in spatially heterogenous environment. <i>Mathematical Biosciences and Engineering</i> , 2019 , 17, 893-909	2.1	1

93	Epidemics and underlying factors of multiple-peak pattern on hand, foot and mouth disease in Wenzhou, China. <i>Mathematical Biosciences and Engineering</i> , 2019 , 16, 2168-2188	2.1	6
92	Stability and Hopf Bifurcation in a Predator-Prey Model with the Cost of Anti-Predator Behaviors. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2019 , 29, 1950185	2	13
91	Spatiotemporal transmission dynamics for influenza disease in a heterogeneous environment. <i>Nonlinear Analysis: Real World Applications</i> , 2019 , 46, 178-194	2.1	32
90	Transmission dynamics of Zika virus with spatial structure: A case study in Rio de Janeiro, Brazil. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 514, 729-740	3.3	16
89	Environmental variability in a stochastic epidemic model. <i>Applied Mathematics and Computation</i> , 2018 , 329, 210-226	2.7	94
88	Turing patterns in a reaction-diffusion epidemic model. <i>International Journal of Biomathematics</i> , 2018 , 11, 1850025	1.8	6
87	Stochastic persistence and stationary distribution in an SIS epidemic model with media coverage. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 492, 2220-2236	3.3	54
86	Positive steady states in an epidemic model with nonlinear incidence rate. <i>Computers and Mathematics With Applications</i> , 2018 , 75, 424-443	2.7	4
85	Turing patterns in a diffusive epidemic model with saturated infection force. <i>Journal of the Franklin Institute</i> , 2018 , 355, 7226-7245	4	30
84	Dynamic behavior of a stochastic SIRS epidemic model with media coverage. <i>Mathematical Methods in the Applied Sciences</i> , 2018 , 41, 5506-5525	2.3	11
83	Complex Dynamics of a host-parasite model with both horizontal and vertical transmissions in a spatial heterogeneous environment. <i>Nonlinear Analysis: Real World Applications</i> , 2018 , 40, 444-465	2.1	45
82	Global threshold dynamics of a stochastic epidemic model incorporating media coverage. <i>Advances in Difference Equations</i> , 2018 , 2018,	3.6	24
81	Bifurcations and Pattern Formation in a Predator-Prey Model. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2018 , 28, 1850140	2	26
80	A stochastic differential equation SIS epidemic model incorporating Ornstein-Uhlenbeck process. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 509, 921-936	3.3	54
79	A stochastic SIRS epidemic model with nonlinear incidence rate. <i>Applied Mathematics and Computation</i> , 2017 , 305, 221-240	2.7	136
78	A stochastic SIS epidemic model with vaccination. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017 , 486, 127-143	3.3	46
77	Periodic behavior in a FIV model with seasonality as well as environment fluctuations. <i>Journal of the Franklin Institute</i> , 2017 , 354, 7410-7428	4	49
76	Global stability for an influenza transmission model incorporating human mobility behavior. <i>International Journal of Biomathematics</i> , 2017 , 10, 1750100	1.8	3

75	Periodic solution of a stochastic HBV infection model with logistic hepatocyte growth. <i>Applied Mathematics and Computation</i> , 2017 , 293, 630-641	2.7	10
74	Global stability of the steady states of an epidemic model incorporating intervention strategies. <i>Mathematical Biosciences and Engineering</i> , 2017 , 14, 1071-1089	2.1	4
73	Fish-hook bifurcation branch in a spatial heterogeneous epidemic model with cross-diffusion. <i>Nonlinear Analysis: Real World Applications</i> , 2016 , 30, 99-125	2.1	36
72	On the Camassa-Holm system with one mean zero component. <i>Communications in Mathematical Sciences</i> , 2016 , 14, 517-534	1	1
71	A stochastic epidemic model incorporating media coverage. <i>Communications in Mathematical Sciences</i> , 2016 , 14, 893-910	1	70
70	Endemic dynamics in a host-parasite epidemiological model within spatially heterogeneous environment. <i>Applied Mathematics Letters</i> , 2016 , 61, 129-136	3.5	5
69	Stochastic dynamics of feline immunodeficiency virus within cat populations. <i>Journal of the Franklin Institute</i> , 2016 , 353, 4191-4212	4	15
68	Stochastic extinction and persistence of a parasite-host epidemiological model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 462, 586-602	3.3	10
67	Stability and Hopf bifurcation of the stationary solutions to an epidemic model with cross-diffusion. <i>Computers and Mathematics With Applications</i> , 2015 , 70, 1906-1920	2.7	15
66	Spatiotemporal Dynamics in a Reaction-Diffusion Epidemic Model with a Time-Delay in Transmission. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2015 , 25, 1550099	2	7
65	A stochastic SIRS epidemic model with infectious force under intervention strategies. <i>Journal of Differential Equations</i> , 2015 , 259, 7463-7502	2.1	185
64	Dynamics of a Leslie-Gower predator-prey model with additive Allee effect. <i>Applied Mathematical Modelling</i> , 2015 , 39, 2092-2106	4.5	45
63	Dynamics of a parasite-host epidemiological model in spatial heterogeneous environment. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2015 , 20, 989-1013	1.3	6
62	Advanced Nonlinear Dynamics of Population Biology and Epidemiology. <i>Abstract and Applied Analysis</i> , 2014 , 2014, 1-3	0.7	
61	A Spatial-Temporal ARMA Model of the Incidence of Hand, Foot, and Mouth Disease in Wenzhou, China. <i>Abstract and Applied Analysis</i> , 2014 , 2014, 1-9	0.7	2
60	A Hand-Foot-and-Mouth Disease Model with Periodic Transmission Rate in Wenzhou, China. <i>Abstract and Applied Analysis</i> , 2014 , 2014, 1-11	0.7	10
59	Dynamical complexity induced by Allee effect in a predator-prey model. <i>Nonlinear Analysis: Real World Applications</i> , 2014 , 16, 103-119	2.1	31
58	Smooth Pullback Attractors for a Non-autonomous 2D Non-Newtonian Fluid and Their Tempered Behaviors. <i>Journal of Mathematical Fluid Mechanics</i> , 2014 , 16, 243-262	1.4	11

57	Spatiotemporal complexity in a predator-prey model with weak Allee effects. <i>Mathematical Biosciences and Engineering</i> , 2014 , 11, 1247-74	2.1	21
56	Spatiotemporal dynamics in a delayed diffusive predator model. <i>Applied Mathematics and Computation</i> , 2013 , 224, 524-534	2.7	21
55	Regularity Issue of the Navier-Stokes Equations Involving the Combination of Pressure and Velocity Field. <i>Acta Applicandae Mathematicae</i> , 2013 , 123, 99-112	1.1	6
54	Complex dynamics of a diffusive epidemic model with strong Allee effect. <i>Nonlinear Analysis: Real World Applications</i> , 2013 , 14, 1907-1920	2.1	13
53	Delay-driven pattern formation in a reaction-diffusion predator-prey model incorporating a prey refuge. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2013 , 2013, P04006	1.9	13
52	Blowup Phenomena for a Modified Dullin-Gottwald-Holm Shallow Water System. <i>Abstract and Applied Analysis</i> , 2013 , 2013, 1-8	0.7	
51	Stochastic Extinction in an SIRS Epidemic Model Incorporating Media Coverage. <i>Abstract and Applied Analysis</i> , 2013 , 2013, 1-8	0.7	8
50	The Existence of Positive Nonconstant Steady States in a Reaction: Diffusion Epidemic Model. <i>Abstract and Applied Analysis</i> , 2013 , 2013, 1-7	0.7	1
49	Allee-Effect-Induced Instability in a Reaction-Diffusion Predator-Prey Model. <i>Abstract and Applied Analysis</i> , 2013 , 2013, 1-10	0.7	8
48	Blow-Up of Solutions to a Novel Two-Component Rod System. <i>Abstract and Applied Analysis</i> , 2013 , 2013, 1-12	0.7	
47	Stochastic Dynamics of an SIRS Epidemic Model with Ratio-Dependent Incidence Rate. <i>Abstract and Applied Analysis</i> , 2013 , 2013, 1-11	0.7	12
46	Blow-up Phenomena and Persistence Properties of Solutions to the Two-Component DGH Equation. <i>Abstract and Applied Analysis</i> , 2013 , 2013, 1-13	0.7	1
45	Stationary Patterns of a Cross-Diffusion Epidemic Model. <i>Abstract and Applied Analysis</i> , 2013 , 2013, 1-10	0.7	2
44	Traveling Wave Solutions in a Reaction-Diffusion Epidemic Model. <i>Abstract and Applied Analysis</i> , 2013 , 2013, 1-13	0.7	4
43	Spatiotemporal Complexity of a Leslie-Gower Predator-Prey Model with the Weak Allee Effect. <i>Journal of Applied Mathematics</i> , 2013 , 2013, 1-16	1.1	10
42	Bifurcation Analysis in a Delayed Diffusive Leslie-Gower Model. <i>Discrete Dynamics in Nature and Society</i> , 2013 , 2013, 1-11	1.1	1
41	Complex dynamics of a reaction-diffusion epidemic model. <i>Nonlinear Analysis: Real World Applications</i> , 2012 , 13, 2240-2258	2.1	52
40	Dynamics of a Michaelis-Menten-type predation model incorporating a prey refuge with noise and external forces. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012 , 2012, P03014	1.9	6

39	Dynamical Analysis of a Delayed Reaction-Diffusion Predator-Prey System. <i>Abstract and Applied Analysis</i> , 2012 , 2012, 1-23	0.7	7
38	The Complex Dynamics of a Stochastic Predator-Prey Model. <i>Abstract and Applied Analysis</i> , 2012 , 2012, 1-24	0.7	5
37	Pattern Formation in a Cross-Diffusive Holling-Tanner Model. <i>Discrete Dynamics in Nature and Society</i> , 2012 , 2012, 1-12	1.1	7
36	DYNAMICS OF A DIFFUSIVE PREDATOR-PREY MODEL WITH ADDITIVE ALLEE EFFECT. <i>International Journal of Biomathematics</i> , 2012 , 05, 1250023	1.8	11
35	A New Mechanical Algorithm for Calculating the Amplitude Equation of the Reaction-Diffusion Systems. <i>International Journal of Computational Models and Algorithms in Medicine</i> , 2012 , 3, 21-28		1
34	PATTERN SELECTION IN AN EPIDEMIC MODEL WITH SELF AND CROSS DIFFUSION. <i>Journal of Biological Systems</i> , 2011 , 19, 19-31	1.6	16
33	Complex patterns in a predator-prey model with self and cross-diffusion. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011 , 16, 2006-2015	3.7	54
32	Numerical study of pattern formation in an extended Gray-Scott model. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011 , 16, 2016-2026	3.7	16
31	Spatiotemporal dynamics of a Leslie-Gower predator-prey model incorporating a prey refuge. <i>Nonlinear Analysis: Real World Applications</i> , 2011 , 12, 2385-2395	2.1	57
30	Spatiotemporal dynamics of a reaction-diffusion epidemic model with nonlinear incidence rate. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011 , 2011, P02025	1.9	12
29	Pattern selection in a ratio-dependent predator-prey model. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010 , 2010, P11036	1.9	13
28	Pattern formation of a predator-prey system with Ivlev-type functional response. <i>Ecological Modelling</i> , 2010 , 221, 131-140	3	63
27	Dynamics of a periodic Watt-type predator-prey system with impulsive effect. <i>Chaos, Solitons and Fractals</i> , 2009 , 39, 1270-1282	9.3	9
26	The dynamical complexity of an impulsive Watt-type prey-predator system. <i>Chaos, Solitons and Fractals</i> , 2009 , 40, 731-744	9.3	5
25	Dynamics of a two-prey one-predator system with Watt-type functional response and impulsive control strategy?. <i>Chaos, Solitons and Fractals</i> , 2009 , 40, 2392-2404	9.3	11
24	Spatiotemporal complexity of a predator-prey system with the effect of noise and external forcing. <i>Chaos, Solitons and Fractals</i> , 2009 , 41, 1634-1644	9.3	16
23	Chaotic behavior of a Watt-type predator-prey system with impulsive control strategy. <i>Chaos, Solitons and Fractals</i> , 2008 , 37, 706-718	9.3	16
22	Complicated dynamics of a predator-prey system with Watt-type functional response and impulsive control strategy?. <i>Chaos, Solitons and Fractals</i> , 2008 , 37, 1427-1441	9.3	16

21	The dynamical complexity of a Ivlev-type prey-predator system with impulsive effect. <i>Chaos, Solitons and Fractals</i> , 2008 , 38, 1168-1176	9.3	36
20	Chaotic behavior of a three-species Beddington-type system with impulsive perturbations. <i>Chaos, Solitons and Fractals</i> , 2008 , 37, 438-443	9.3	19
19	A New Mechanical Algorithm for Solving System of Fredholm Integral Equation Using Resolvent Method. <i>Lecture Notes in Computer Science</i> , 2008 , 744-754	0.9	
18	The dynamic complexity of a three-species Beddington-type food chain with impulsive control strategy. <i>Chaos, Solitons and Fractals</i> , 2007 , 32, 1772-1785	9.3	53
17	Spatiotemporal complexity of a ratio-dependent predator-prey system. <i>Physical Review E</i> , 2007 , 75, 051913	11.3	118
16	An algorithm for solving the high-order nonlinear Volterra-Fredholm integro-differential equation with mechanization. <i>Applied Mathematics and Computation</i> , 2006 , 172, 1-23	2.7	36
15	Computer aided solving the high-order transition probability matrix of the finite Markov chain. <i>Applied Mathematics and Computation</i> , 2006 , 172, 267-285	2.7	8
14	A mechanical algorithm for solving ordinary differential equation. <i>Applied Mathematics and Computation</i> , 2006 , 172, 568-583	2.7	7
13	A new mechanical algorithm for solving the second kind of Fredholm integral equation. <i>Applied Mathematics and Computation</i> , 2006 , 172, 946-962	2.7	25
12	A mechanical algorithm for solving the Volterra integral equation. <i>Applied Mathematics and Computation</i> , 2006 , 172, 1323-1341	2.7	12
11	Mechanical algorithm for solving the second kind of Volterra integral equation. <i>Applied Mathematics and Computation</i> , 2006 , 173, 1149-1162	2.7	8
10	The dynamics of a Beddington-type system with impulsive control strategy. <i>Chaos, Solitons and Fractals</i> , 2006 , 29, 1229-1239	9.3	41
9	A new algorithm for symbolic integral with application. <i>Applied Mathematics and Computation</i> , 2005 , 162, 949-968	2.7	23
8	A new algorithm for integral of trigonometric functions with mechanization. <i>Applied Mathematics and Computation</i> , 2005 , 164, 71-82	2.7	31
7	An algorithm for solving DAEs with mechanization. <i>Applied Mathematics and Computation</i> , 2005 , 167, 1350-1372	2.7	10
6	The distribution models of grazing animals between two grassland resource points. <i>Applied Mathematics and Computation</i> , 2005 , 169, 1395-1404	2.7	2
5	An algorithm for solving nonlinear singular perturbation problems with mechanization. <i>Applied Mathematics and Computation</i> , 2005 , 169, 995-1009	2.7	9
4	Mechanization for solving SPP by reducing order method. <i>Applied Mathematics and Computation</i> , 2005 , 169, 1028-1037	2.7	8

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| 3 | Computations of multi-resultant with mechanization. <i>Applied Mathematics and Computation</i> , 2005 , 170, 237-257 | 2.7 | 5 |
| 2 | A New Mechanical Algorithm for Calculating the Amplitude Equation of the Reaction-Diffusion Systems. <i>Advances in Bioinformatics and Biomedical Engineering Book Series</i> , 205-213 | 0.4 | |
| 1 | Estimating the serial interval of the novel coronavirus disease (COVID-19): A statistical analysis using the public data in Hong Kong from January 16 to February 15, 2020 | | 12 |