Feng Rao

List of Publications by Year
in descending order

27
papers

379
citations

840776
11
h-index

794594
19
g-index

27
all docs

27
docs citations

27
times ranked

304
citing authors

#	Article	IF	Citations
1	Complex patterns in a predator–prey model with self and cross-diffusion. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 2006-2015.	3.3	66
2	Time series prediction of COVID-19 transmission in America using LSTM and XGBoost algorithms. Results in Physics, 2021, 27, 104462.	4.1	66
3	The complex dynamics of a diffusive prey–predator model with an Allee effect in prey. Ecological Complexity, 2016, 28, 123-144.	2.9	35
4	Complicated endemics of an SIRS model with a generalized incidence under preventive vaccination and treatment controls. Applied Mathematical Modelling, 2019, 67, 38-61.	4.2	32
5	Spatiotemporal complexity of a predator–prey system with the effect of noise and external forcing. Chaos, Solitons and Fractals, 2009, 41, 1634-1644.	5.1	20
6	Dynamics of a diffusion reaction prey–predator model with delay in prey: Effects of delay and spatial components. Journal of Mathematical Analysis and Applications, 2018, 461, 1177-1214.	1.0	19
7	Spatiotemporal dynamics in a reaction–diffusion toxic-phytoplankton–zooplankton model. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P08014.	2.3	18
8	Pattern selection in a ratio-dependent predator–prey model. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P11036.	2.3	15
9	Stability analysis of an epidemic model with diffusion and stochastic perturbation. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 2551-2563.	3.3	15
10	Spatiotemporal complexity of a three-species ratio-dependent food chain model. Nonlinear Dynamics, 2014, 76, 1661-1676.	5.2	15
11	Dynamics Analysis of a Stochastic SIR Epidemic Model. Abstract and Applied Analysis, 2014, 2014, 1-9.	0.7	14
12	Dynamical Analysis of a Stochastic Predator-Prey Model with an Allee Effect. Abstract and Applied Analysis, 2013, 2013, 1-10.	0.7	10
13	Dynamics of a Michaelis–Menten-type predation model incorporating a prey refuge with noise and external forces. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P03014.	2.3	9
14	Stochastic effects on an HIV/AIDS infection model with incomplete diagnosis. Chaos, Solitons and Fractals, 2021, 152, 111344.	5.1	9
15	The complex dynamics of a stochastic toxic-phytoplankton-zooplankton model. Advances in Difference Equations, 2014, 2014, .	3.5	7
16	Positive steady states in an epidemic model with nonlinear incidence rate. Computers and Mathematics With Applications, 2018, 75, 424-443.	2.7	7
17	Stochastic Analysis of a Hassell-Varley Type Predation Model. Abstract and Applied Analysis, 2013, 2013, 1-10.	0.7	6
18	Spatiotemporal Pattern in a Self- and Cross-Diffusive Predation Model with the Allee Effect. Discrete Dynamics in Nature and Society, 2013, 2013, 1-9.	0.9	5

#	Article	IF	Citations
19	Dynamics of a stochastic delayed Harrison-type predation model: Effects of delay and stochastic components. Mathematical Biosciences and Engineering, 2018, 15, 1401-1423.	1.9	5
20	A conjugate gradient method with sufficient descent property. Numerical Algorithms, 2015, 70, 269-286.	1.9	2
21	Nutritional regulation influencing colony dynamics and task allocations in social insect colonies. Journal of Biological Dynamics, 2021, 15, S35-S61.	1.7	2
22	Spatiotemporal dynamics of a predation system with time delay and spatial diffusion. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 103501.	2.3	2
23	Noise Effect Analysis on a Spatial Ecosystem. , 2009, , .		0
24	Noise effect on a spatial reaction-diffusion model with constant harvest rate. , 2009, , .		0
25	Complex Dynamics of a Harvesting Holling-Type II Predation-Diffusion Model. , 2009, , .		0
26	Boundedness of solutions for semilinear Duffing's equation with asymmetric nonlinear term. Journal of Inequalities and Applications, 2013, 2013, .	1.1	0
27	Positive steady states of a density-dependent predator-prey model with diffusion. Discrete and Continuous Dynamical Systems - Series B, 2017, 22, 16-16.	0.9	0