

Exclusion and persistence in deterministic and stochastic

Journal of Differential Equations

217, 26-53

DOI: [10.1016/j.jde.2005.06.017](https://doi.org/10.1016/j.jde.2005.06.017)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Existence, uniqueness, stochastic persistence and global stability of positive solutions of the logistic equation with random perturbation. <i>Mathematical Methods in the Applied Sciences</i> , 2007, 30, 77-89.	1.2	22
2	Global stability of two-group SIR model with random perturbation. <i>Journal of Mathematical Analysis and Applications</i> , 2009, 360, 235-244.	0.5	95
3	The long time behavior of DI SIR epidemic model with stochastic perturbation. <i>Journal of Mathematical Analysis and Applications</i> , 2010, 372, 162-180.	0.5	60
4	Stochastic modeling of the chemostat. <i>Ecological Modelling</i> , 2011, 222, 2676-2689.	1.2	72
5	Multigroup SIR epidemic model with stochastic perturbation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011, 390, 1747-1762.	1.2	132
6	Asymptotic behavior of global positive solution to a stochastic SIR model. <i>Mathematical and Computer Modelling</i> , 2011, 54, 221-232.	2.0	150
7	DYNAMICS OF AN HIV-1 INFECTION MODEL WITH CELL-MEDIATED IMMUNE RESPONSE AND STOCHASTIC PERTURBATION. <i>International Journal of Biomathematics</i> , 2012, 05, 1250039.	1.5	19
8	STABILITY OF SVIR SYSTEM WITH RANDOM PERTURBATIONS. <i>International Journal of Biomathematics</i> , 2012, 05, 1250025.	1.5	4
9	Two-group SIR epidemic model with stochastic perturbation. <i>Acta Mathematica Sinica, English Series</i> , 2012, 28, 2545-2560.	0.2	2
10	Global analysis of continuous flow bioreactor and membrane reactor models with death and maintenance. <i>Journal of Mathematical Chemistry</i> , 2012, 50, 2239-2247.	0.7	9
11	Particle filtering for the chemostat. , 2012, , .		3
12	Stochastic differential equation derivation: Comparison of the Markov method versus the additive method. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 4564-4574.	1.2	1
13	The Behavior of an SIR Epidemic Model with Stochastic Perturbation. <i>Stochastic Analysis and Applications</i> , 2012, 30, 755-773.	0.9	98
14	Stochastically asymptotically stability of the multi-group SEIR and SIR models with random perturbation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012, 17, 2501-2516.	1.7	46
15	The ergodicity and extinction of stochastically perturbed SIR and SEIR epidemic models with saturated incidence. <i>Journal of Mathematical Analysis and Applications</i> , 2012, 388, 248-271.	0.5	172
16	Global stability of deterministic and stochastic multigroup SEIQR models in computer network. <i>Applied Mathematical Modelling</i> , 2013, 37, 8673-8686.	2.2	26
17	Extinction and recurrence of multi-group SEIR epidemic models with stochastic perturbations. <i>Nonlinear Analysis: Real World Applications</i> , 2013, 14, 1434-1456.	0.9	94
18	Long time behaviour of a stochastic model for continuous flow bioreactor. <i>Journal of Mathematical Chemistry</i> , 2013, 51, 451-464.	0.7	16

#	ARTICLE	IF	CITATIONS
19	STOCHASTIC POINCARÉ-BENDIXSON THEOREM AND ITS APPLICATION ON STOCHASTIC HOPF BIFURCATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350070.	0.7	7
20	On Geometry and Scale of a Stochastic Chemostat. Communications in Statistics - Theory and Methods, 2013, 42, 2902-2911.	0.6	2
21	Stochastic Extinction in an SIRS Epidemic Model Incorporating Media Coverage. Abstract and Applied Analysis, 2013, 2013, 1-8.	0.3	10
22	Stochastic Dynamics of an SIRS Epidemic Model with Ratio-Dependent Incidence Rate. Abstract and Applied Analysis, 2013, 2013, 1-11.	0.3	14
23	Asymptotic Behavior of a Chemostat Model with Stochastic Perturbation on the Dilution Rate. Abstract and Applied Analysis, 2013, 2013, 1-11.	0.3	11
24	Dynamics of Stochastically Perturbed SIS Epidemic Model with Vaccination. Abstract and Applied Analysis, 2013, 2013, 1-12.	0.3	10
25	ANALYSIS OF A PREDATOR-PREY MODEL WITH DISEASE IN THE PREY. International Journal of Biomathematics, 2013, 06, 1350012.	1.5	13
26	QUALITATIVE ANALYSIS OF A STOCHASTIC PREDATOR-PREY SYSTEM WITH DISEASE IN THE PREDATOR. International Journal of Biomathematics, 2013, 06, 1250068.	1.5	3
27	Dynamics of a Stochastic Functional System for Wastewater Treatment. Abstract and Applied Analysis, 2014, 2014, 1-18.	0.3	0
28	Global Stability of Multigroup SIRS Epidemic Model with Varying Population Sizes and Stochastic Perturbation around Equilibrium. Abstract and Applied Analysis, 2014, 2014, 1-14.	0.3	1
29	The Behavior of an SVIR Epidemic Model with Stochastic Perturbation. Abstract and Applied Analysis, 2014, 2014, 1-7.	0.3	7
30	Stability analysis of multi-group deterministic and stochastic epidemic models with vaccination rate. Chinese Physics B, 2014, 23, 090201.	0.7	1
31	Dynamics of a Stochastic Multigroup SEIR Epidemic Model. Journal of Applied Mathematics, 2014, 2014, 1-9.	0.4	1
32	The long time behavior of a predator-prey model with disease in the prey by stochastic perturbation. Applied Mathematics and Computation, 2014, 245, 305-320.	1.4	16
33	Dynamics of deterministic and stochastic multi-group MSIRS epidemic models with varying total population size. Advances in Difference Equations, 2014, 2014, 270.	3.5	2
34	Asymptotic dynamics of a deterministic and stochastic predator-prey model with disease in the prey species. Mathematical Methods in the Applied Sciences, 2014, 37, 306-320.	1.2	4
35	Approximation of the Fokker-Planck equation of the stochastic chemostat. Mathematics and Computers in Simulation, 2014, 99, 37-53.	2.4	11
36	The threshold of a stochastic SIS epidemic model with vaccination. Applied Mathematics and Computation, 2014, 243, 718-727.	1.4	228

#	ARTICLE	IF	CITATIONS
37	On extinction of infectious diseases for multi-group SIRS models with saturated incidence rate. <i>Advances in Difference Equations</i> , 2015, 2015, .	3.5	2
38	The asymptotic behavior of a stochastic SIS epidemic model with vaccination. <i>Advances in Difference Equations</i> , 2015, 2015, .	3.5	15
39	Comparison of deterministic and stochastic SIRS epidemic model with saturating incidence and immigration. <i>Arabian Journal of Mathematics</i> , 2015, 4, 101-116.	0.4	10
40	An analogue of break-even concentration in a simple stochastic chemostat model. <i>Applied Mathematics Letters</i> , 2015, 48, 62-68.	1.5	74
41	A stochastic SIS epidemic model incorporating media coverage in a two patch setting. <i>Applied Mathematics and Computation</i> , 2015, 262, 160-168.	1.4	21
42	A stochastic SIRS epidemic model with infectious force under intervention strategies. <i>Journal of Differential Equations</i> , 2015, 259, 7463-7502.	1.1	255
43	Stochastic Asymptotic Stability of SIR Model with Variable Diffusion Rates. <i>Journal of Dynamics and Differential Equations</i> , 2015, 27, 69-82.	1.0	27
44	A modeling approach of the chemostat. <i>Ecological Modelling</i> , 2015, 299, 1-13.	1.2	18
45	Application of operational matrices to numerical solution of stochastic SIR model. <i>Arabian Journal of Mathematics</i> , 2016, 5, 77-86.	0.4	1
46	Stochastic Sensitivity Analysis for a Competitive Turbidostat Model with Inhibitory Nutrients. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2016, 26, 1650173.	0.7	26
47	Competition in the chemostat: A stochastic multi-species model and its asymptotic behavior. <i>Mathematical Biosciences</i> , 2016, 280, 1-9.	0.9	61
48	Dynamics of stochastic SEIS epidemic model with varying population size. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 464, 241-250.	1.2	10
49	Advances in Dynamical Systems and Control. <i>Studies in Systems, Decision and Control</i> , 2016, , .	0.8	2
50	Analysis of a stochastic model for algal bloom with nutrient recycling. <i>International Journal of Biomathematics</i> , 2016, 09, 1650083.	1.5	9
51	The periodic solutions of a stochastic chemostat model with periodic washout rate. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016, 37, 1-13.	1.7	37
52	The asymptotic behavior of a stochastic vaccination model with backward bifurcation. <i>Applied Mathematical Modelling</i> , 2016, 40, 6051-6068.	2.2	19
53	The asymptotic behavior and ergodicity of stochastically perturbed SVIR epidemic model. <i>International Journal of Biomathematics</i> , 2016, 09, 1650042.	1.5	5
54	Critical result on the break-even concentration in a single-species stochastic chemostat model. <i>Journal of Mathematical Analysis and Applications</i> , 2016, 434, 1336-1345.	0.5	48

#	ARTICLE	IF	CITATIONS
55	Effects of stochastic perturbation on the SIS epidemic system. Journal of Mathematical Biology, 2017, 74, 469-498.	0.8	23
56	Stationary distribution and extinction of a stochastic SEIR epidemic model with standard incidence. Physica A: Statistical Mechanics and Its Applications, 2017, 476, 58-69.	1.2	51
57	A density-dependent model of competition for one resource in the chemostat. Mathematical Biosciences, 2017, 286, 104-122.	0.9	18
58	A note on the stationary distribution of the stochastic chemostat model with general response functions. Applied Mathematics Letters, 2017, 73, 22-28.	1.5	33
59	Dynamical behavior of a stochastic two-species Monod competition chemostat model. Applied Mathematics and Computation, 2017, 298, 153-170.	1.4	42
60	Dynamical behavior of a stochastic HBV infection model with logistic hepatocyte growth. Acta Mathematica Scientia, 2017, 37, 927-940.	0.5	17
61	Stationary distribution and extinction of the DS-I-A model disease with periodic parameter function and Markovian switching. Applied Mathematics and Computation, 2017, 311, 66-84.	1.4	10
62	Asymptotic behavior of a Lotka-Volterra food chain stochastic model in the Chemostat. Stochastic Analysis and Applications, 2017, 35, 645-661.	0.9	13
63	Stationary distribution and extinction of a stochastic SIRS epidemic model with standard incidence. Physica A: Statistical Mechanics and Its Applications, 2017, 469, 510-517.	1.2	49
64	Dynamics of the stochastic chemostat with Monod-Haldane response function. Scientific Reports, 2017, 7, 13641.	1.6	5
65	Periodic solution for the stochastic chemostat with general response function. Physica A: Statistical Mechanics and Its Applications, 2017, 486, 378-385.	1.2	8
66	Gaussian approximations for chemostat models in finite and infinite dimensions. Journal of Mathematical Biology, 2017, 75, 805-843.	0.8	0
67	Break-even concentration and periodic behavior of a stochastic chemostat model with seasonal fluctuation. Communications in Nonlinear Science and Numerical Simulation, 2017, 46, 62-73.	1.7	14
68	Dynamics of a stochastic tuberculosis model with constant recruitment and varying total population size. Physica A: Statistical Mechanics and Its Applications, 2017, 469, 518-530.	1.2	10
69	Stochastic modeling and control of bioreactors * *The authors are grateful for the support of project BIONATURE of CIRIC INRIA CHILE, CONICYT-Chile grant REDES 150011, MathAmsud NÂ°15MATH-02 and BASAL project (Centro de Modelamiento Matemático, Universidad de Chile). The second and third authors were also supported by CONICYT-Chile under FONDECYT regular projects 1160567 and 1160204. The fourth author benefited from the support of the "FMIH Program Gaspard Monge in optimization and operation research" and f. IFAC-PapersOnLine, 2017, 50, 12611-12616.	0.5	4
70	Threshold Dynamics of a Stochastic Chemostat Model with Two Nutrients and One Microorganism. Mathematical Problems in Engineering, 2017, 2017, 1-11.	0.6	2
71	Existence and persistence of positive solution for a stochastic turbidostat model. Advances in Difference Equations, 2017, 2017, .	3.5	1
72	Qualitative study of a stochastic SIS epidemic model with vertical transmission. Physica A: Statistical Mechanics and Its Applications, 2018, 505, 805-817.	1.2	23

#	ARTICLE	IF	CITATIONS
73	Average break-even concentration in a simple chemostat model with telegraph noise. <i>Nonlinear Analysis: Hybrid Systems</i> , 2018, 29, 373-382.	2.1	44
74	Extinction and stationary distribution of an impulsive stochastic chemostat model with nonlinear perturbation. <i>Chaos, Solitons and Fractals</i> , 2018, 110, 273-279.	2.5	46
75	Stochastic analysis of a full system of two competing populations in a chemostat. <i>Chemical Engineering Science</i> , 2018, 175, 424-444.	1.9	6
76	Sensitivity analysis and feedback control of noise-induced extinction for competition chemostat model with mutualism. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 505, 891-902.	1.2	31
77	The asymptotic behavior of a stochastic multigroup SIS model. <i>International Journal of Biomathematics</i> , 2018, 11, 1850037.	1.5	6
78	Dynamics of a stochastic tuberculosis model with antibiotic resistance. <i>Chaos, Solitons and Fractals</i> , 2018, 109, 223-230.	2.5	19
79	Extinction and periodic solutions for an impulsive SIR model with incidence rate stochastically perturbed. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 505, 385-397.	1.2	12
80	Asymptotic properties of a stochastic chemostat including species death rate. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 438-456.	1.2	8
81	Stochastic stability and instability of an epidemic model with relapse. <i>Applied Mathematics and Computation</i> , 2018, 316, 326-341.	1.4	36
82	Stationary distribution and extinction of a stochastic predator-prey model with distributed delay. <i>Applied Mathematics Letters</i> , 2018, 78, 79-87.	1.5	46
83	A stochastic chemostat model with an inhibitor and noise independent of population sizes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 492, 1763-1781.	1.2	18
84	Ergodic property of the chemostat: A stochastic model under regime switching and with general response function. <i>Nonlinear Analysis: Hybrid Systems</i> , 2018, 27, 341-352.	2.1	34
85	Persistence and ergodicity of a stochastic single species model with Allee effect under regime switching. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018, 59, 359-374.	1.7	91
86	Dynamics of a hepatitis B model with saturated incidence. <i>Acta Mathematica Scientia</i> , 2018, 38, 1731-1750.	0.5	9
87	Confidence domain in the stochastic competition chemostat model with feedback control. <i>Applied Mathematics</i> , 2018, 33, 379-389.	0.6	4
88	Stationary distribution and extinction of a stochastic predator-prey model with herd behavior. <i>Journal of the Franklin Institute</i> , 2018, 355, 8177-8193.	1.9	20
89	ASYMPTOTIC BEHAVIOR OF A STOCHASTIC DELAYED CHEMOSTAT MODEL WITH NUTRIENT STORAGE. <i>Journal of Biological Systems</i> , 2018, 26, 225-246.	0.5	18
90	Dynamical behavior of stochastic multigroup S-DI-A epidemic models for the transmission of HIV. <i>Journal of the Franklin Institute</i> , 2018, 355, 5830-5865.	1.9	17

#	ARTICLE	IF	CITATIONS
91	Asymptotic behavior of a stochastic delayed chemostat model with nonmonotone uptake function. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 512, 38-56.	1.2	19
92	Sharp conditions for the existence of a stationary distribution in one classical stochastic chemostat. <i>Applied Mathematics and Computation</i> , 2018, 339, 199-205.	1.4	29
93	Random periodic solution for a stochastic SIS epidemic model with constant population size. <i>Advances in Difference Equations</i> , 2018, 2018, .	3.5	10
94	Stationary distribution and extinction of a stochastic HIV-1 model with Beddingtonâ€™DeAngelis infection rate. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 512, 414-426.	1.2	8
95	A stochastic SIRS epidemic model with a general awareness-induced incidence. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 512, 968-980.	1.2	18
96	Unique stationary distribution and ergodicity of a stochastic Logistic model with distributed delay. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 512, 864-881.	1.2	20
97	Random and stochastic disturbances on the input flow in chemostat models with wall growth. <i>Stochastic Analysis and Applications</i> , 2019, 37, 668-698.	0.9	11
98	Asymptotic properties of stochastic nutrient-plankton food chain models with nutrient recycling. <i>Nonlinear Analysis: Hybrid Systems</i> , 2019, 34, 209-225.	2.1	63
99	Dynamical behavior of a stochastic epidemic model for cholera. <i>Journal of the Franklin Institute</i> , 2019, 356, 7486-7514.	1.9	28
100	Dynamics of a stochastic avianâ€™human influenza epidemic model with mutation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 534, 121940.	1.2	6
101	Dynamics of a stochastic SIR epidemic model with distributed delay and degenerate diffusion. <i>Journal of the Franklin Institute</i> , 2019, 356, 7347-7370.	1.9	20
102	Stochastic dynamics of the delayed chemostat with Lévy noises. <i>International Journal of Biomathematics</i> , 2019, 12, 1950056.	1.5	24
103	Dynamics of a stochastic multigroup SIQR epidemic model with standard incidence rates. <i>Journal of the Franklin Institute</i> , 2019, 356, 2960-2993.	1.9	29
104	Optimal threshold density in a stochastic resource management model with pulse intervention. <i>Natural Resource Modelling</i> , 2019, 32, .	0.8	5
105	Dynamics of an Impulsive Stochastic Nonautonomous Chemostat Model with Two Different Growth Rates in a Polluted Environment. <i>Discrete Dynamics in Nature and Society</i> , 2019, 2019, 1-15.	0.5	15
106	Global Analysis of a Simplified Model of Anaerobic Digestion and a New Result for the Chemostat. <i>SIAM Journal on Applied Mathematics</i> , 2019, 79, 668-689.	0.8	14
107	Mean persistence and extinction for a novel stochastic turbidostat model. <i>Nonlinear Dynamics</i> , 2019, 97, 185-202.	2.7	11
108	On invariant measures and the asymptotic behavior of a stochastic delayed SIRS epidemic model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 523, 1008-1023.	1.2	7

#	ARTICLE	IF	CITATIONS
109	Stationary distribution of a stochastic staged progression HIV model with imperfect vaccination. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 527, 121271.	1.2	11
110	The dynamics of a stochastic vaccinated tuberculosis model with treatment. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 527, 121274.	1.2	11
111	Dynamical behavior of a stochastic multigroup SIR epidemic model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 526, 120975.	1.2	9
112	A way to model stochastic perturbations in population dynamics models with bounded realizations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 77, 239-257.	1.7	22
113	LÃ©vy noise perturbation for an epidemic model with impact of media coverage. <i>Stochastics</i> , 2019, 91, 998-1019.	0.6	16
114	Dynamical Analysis of Two-Microorganism and Single Nutrient Stochastic Chemostat Model with Monod-Haldane Response Function. <i>Complexity</i> , 2019, 2019, 1-13.	0.9	15
115	Critical result on the threshold of a stochastic SIS model with saturated incidence rate. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 523, 426-437.	1.2	4
116	Long-time behaviour of a stochastic chemostat model with distributed delay. <i>Stochastics</i> , 2019, 91, 1141-1163.	0.6	6
117	Threshold behavior of a stochastic Lotka-Volterra food chain chemostat model with jumps. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 523, 191-203.	1.2	7
118	A Stochastic Information Diffusion Model in Complex Social Networks. <i>IEEE Access</i> , 2019, 7, 175897-175906.	2.6	5
119	Stationary distribution of a stochastic food chain chemostat model with general response functions. <i>Applied Mathematics Letters</i> , 2019, 91, 151-157.	1.5	24
120	Qualitative analysis of stochastically perturbed SIRS epidemic model with two viruses. <i>Chaos, Solitons and Fractals</i> , 2019, 118, 207-221.	2.5	25
121	Global Asymptotic Behavior of a Multi-species Stochastic Chemostat Model with Discrete Delays. <i>Journal of Dynamics and Differential Equations</i> , 2020, 32, 849-872.	1.0	13
122	Analysis of an epidemiological model driven by multiple noises: Ergodicity and convergence rate. <i>Journal of the Franklin Institute</i> , 2020, 357, 2203-2216.	1.9	3
123	Sufficient and necessary conditions for stochastic near-optimal controls: A stochastic chemostat model with non-zero cost inhibiting. <i>Applied Mathematical Modelling</i> , 2020, 78, 601-626.	2.2	15
124	Stochastic characteristics of a chemostat model with variable yield. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 537, 122681.	1.2	10
125	A stochastic SIRS epidemic model with logistic growth and general nonlinear incidence rate. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 551, 124152.	1.2	28
126	Stationary distribution of a stochastic cholera model with imperfect vaccination. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 550, 124031.	1.2	5

#	ARTICLE	IF	CITATIONS
127	Noise-induced bifurcations in the stochastic chemostat model with general nutrient uptake functions. <i>Applied Mathematics Letters</i> , 2020, 103, 106180.	1.5	18
128	Threshold behavior in two types of stochastic three strains influenza virus models. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 549, 124082.	1.2	6
129	Stochastic properties of solution for a chemostat model with a distributed delay and random disturbance. <i>International Journal of Biomathematics</i> , 2020, 13, 2050066.	1.5	6
130	Discrete and Continuous Models in the Theory of Networks. <i>Operator Theory: Advances and Applications</i> , 2020, , .	0.2	0
131	Noise-Induced Transitions in a Nonsmooth Producer–Grazer Model with Stoichiometric Constraints. <i>Bulletin of Mathematical Biology</i> , 2020, 82, 55.	0.9	39
132	Probabilistic mechanisms of the noise-induced oscillatory transitions in a Leslie type predator-prey model. <i>Chaos, Solitons and Fractals</i> , 2020, 137, 109871.	2.5	4
133	Dynamic behaviors of a two-group stochastic SIRS epidemic model with standard incidence rates. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 554, 124628.	1.2	2
134	Dynamics of microorganism cultivation with delay and stochastic perturbation. <i>Nonlinear Dynamics</i> , 2020, 101, 501-519.	2.7	3
135	Stability transition of persistence and extinction in an avian influenza model with Allee effect and stochasticity. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 91, 105416.	1.7	8
136	Stochastic Characteristics and Optimal Control for a Stochastic Chemostat Model with Variable Yield. <i>Complexity</i> , 2020, 2020, 1-18.	0.9	4
137	A stochastic model of bacterial infection associated with neutrophils. <i>Applied Mathematics and Computation</i> , 2020, 373, 125025.	1.4	11
138	Stationary distribution of a stochastic cholera model between communities linked by migration. <i>Applied Mathematics and Computation</i> , 2020, 373, 125021.	1.4	9
139	General nonlinear stochastic systems motivated by chemostat models: Complete characterization of long-time behavior, optimal controls, and applications to wastewater treatment. <i>Stochastic Processes and Their Applications</i> , 2020, 130, 4608-4642.	0.4	35
140	Dynamics of a stochastic multigroup S-DI-A model for the transmission of HIV. <i>Applicable Analysis</i> , 2022, 101, 747-772.	0.6	2
141	The impact of virus carrier screening and actively seeking treatment on dynamical behavior of a stochastic HIV/AIDS infection model. <i>Applied Mathematical Modelling</i> , 2020, 85, 378-404.	2.2	26
142	Dynamics of a stochastic tuberculosis transmission model with treatment at home. <i>Stochastic Analysis and Applications</i> , 2020, 38, 979-1000.	0.9	0
143	Ergodicity and threshold behaviors of a predator–prey model in stochastic chemostat driven by regime switching. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 325-344.	1.2	11
144	The threshold of a deterministic and a stochastic SIQS epidemic model with varying total population size. <i>Applied Mathematical Modelling</i> , 2021, 91, 749-767.	2.2	29

#	ARTICLE	IF	CITATIONS
145	A stochastic chemostat model with mean-reverting Ornstein-Uhlenbeck process and Monod-Haldane response function. <i>Applied Mathematics and Computation</i> , 2021, 394, 125833.	1.4	40
146	Stationary distribution and extinction for a food chain chemostat model with random perturbation. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 1013-1028.	1.2	3
147	Stochastic modelling and analysis of harvesting model: Application to "summer fishing moratorium" by intermittent control. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2021, 26, 5047.	0.5	5
148	Competitive Exclusion in a General Multi-species Chemostat Model with Stochastic Perturbations. <i>Bulletin of Mathematical Biology</i> , 2021, 83, 4.	0.9	34
149	Dynamics of a stochastic HIV/AIDS model with treatment under regime switching. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2022, 27, 3177.	0.5	3
150	Qualitative analysis of a two-group SVIR epidemic model with random effect. <i>Advances in Difference Equations</i> , 2021, 2021, 172.	3.5	5
151	The dynamics and application of a stochastic delayed SIS epidemic model with vaccination. <i>Stochastic Analysis and Applications</i> , 2022, 40, 304-327.	0.9	1
152	The Numerical Simulation of the rivalry between aerobic and anaerobic bacteria species in a chemostat model. <i>Journal of Physics: Conference Series</i> , 2021, 1897, 012079.	0.3	1
153	Stochastic SIS epidemic model on network with Lévy noise. <i>Stochastic Analysis and Applications</i> , 2022, 40, 520-538.	0.9	5
154	Understanding death risks of Covid-19 under media awareness strategy: a stochastic approach. <i>Journal of Analysis</i> , 2022, 30, 79-99.	0.3	4
155	Noise-induced stochastic transition: A stochastic chemostat model with two complementary nutrients and flocculation effect. <i>Chaos, Solitons and Fractals</i> , 2021, 147, 110951.	2.5	10
156	Stationary distribution and extinction for a stochastic two-compartment model of B-cell chronic lymphocytic leukemia. <i>International Journal of Biomathematics</i> , 0, , 2150065.	1.5	1
157	Dynamics of a stochastic multigroup SEI epidemic model. <i>Stochastic Analysis and Applications</i> , 2022, 40, 623-656.	0.9	2
158	Stationary distribution and extinction of a stochastic multigroup DS-DI-a model for the transmission of HIV. <i>Stochastic Analysis and Applications</i> , 2022, 40, 830-853.	0.9	2
159	Long-Time Behavior and Density Function of a Stochastic Chemostat Model with Degenerate Diffusion. <i>Journal of Systems Science and Complexity</i> , 0, , 1.	1.6	0
160	Stationary probability density of a stochastic chemostat model with Monod growth response function. <i>Mathematical Methods in the Applied Sciences</i> , 0, , .	1.2	0
161	Periodic Solutions for a Stochastic Chemostat Model with Impulsive Perturbation on the Nutrient. <i>Journal of Biological Systems</i> , 0, , .	0.5	3
162	Extinction and Permanence Analysis of Stochastic Predator-Prey Model With Disease, Ratio-Dependent Type Functional Response and Nonlinear Incidence Rate. <i>Journal of Computational and Nonlinear Dynamics</i> , 2021, 16, .	0.7	2

#	ARTICLE	IF	CITATIONS
163	A predator-prey model with different response functions to juvenile and adult prey in deterministic and stochastic environments. <i>Applied Mathematics and Computation</i> , 2022, 413, 126598.	1.4	26
164	Complex Dynamics of a Stochastic Two-Patch Predator-Prey Population Model with Ratio-Dependent Functional Responses. <i>Complexity</i> , 2021, 2021, 1-31.	0.9	1
165	Deterministic and Stochastic Mean-Field SIRS Models on Heterogeneous Networks. <i>Operator Theory: Advances and Applications</i> , 2020, , 67-89.	0.2	1
166	Some Aspects Concerning the Dynamics of Stochastic Chemostats. <i>Studies in Systems, Decision and Control</i> , 2016, , 227-246.	0.8	8
167	Dynamical Analysis of a Stochastic Delayed Two-Species Competition Chemostat Model. <i>Bulletin of the Malaysian Mathematical Sciences Society</i> , 2020, 43, 3725-3755.	0.4	7
168	Dynamics of some stochastic chemostat models with multiplicative noise. <i>Communications on Pure and Applied Analysis</i> , 2017, 16, 1893-1914.	0.4	15
169	Stationarity and periodicity of positive solutions to stochastic SEIR epidemic models with distributed delay. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2017, 22, 2479-2500.	0.5	8
170	Asymptotic properties of a stochastic chemostat model with two distributed delays and nonlinear perturbation. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2020, 25, 2373-2390.	0.5	15
171	Stochastic dynamics of SIRS epidemic models with random perturbation. <i>Mathematical Biosciences and Engineering</i> , 2014, 11, 1003-1025.	1.0	40
172	Stochastic modeling of algal bloom dynamics with delayed nutrient recycling. <i>Mathematical Biosciences and Engineering</i> , 2019, 16, 1-24.	1.0	10
173	A stochastic epidemic model incorporating media coverage. <i>Communications in Mathematical Sciences</i> , 2016, 14, 893-910.	0.5	96
174	The Dynamics of a Stochastic SIR Epidemic Model with Nonlinear Incidence and Vertical Transmission. <i>Discrete Dynamics in Nature and Society</i> , 2021, 2021, 1-20.	0.5	0
175	Global Stability of the Endemic Equilibrium of a Stochastic Information Diffusion Model in Social Networks Based on Epidemic Model. <i>DEStech Transactions on Engineering and Technology Research</i> , 2018, , .	0.0	0
176	DYNAMICAL BEHAVIOR OF A STOCHASTIC FOOD CHAIN CHEMOSTAT MODEL WITH MONOD RESPONSE FUNCTIONS. <i>Journal of Applied Analysis and Computation</i> , 2019, 9, 2278-2294.	0.2	0
177	Stability of stochastic SIS model with disease deaths and variable diffusion rates. <i>Electronic Journal of Qualitative Theory of Differential Equations</i> , 2019, , 1-24.	0.2	0
178	DYNAMICS OF A STOCHASTIC CHEMOSTAT COMPETITION MODEL WITH PLASMID-BEARING AND PLASMID-FREE ORGANISMS. <i>Journal of Applied Analysis and Computation</i> , 2020, 10, 1464-1481.	0.2	2
179	Evolutionary coexistence in a metacommunity: Competition-colonization trade-off, ownership effects, environmental fluctuations. <i>Journal of Theoretical Biology</i> , 2022, 533, 110944.	0.8	0
180	Extinction and Stationary Distribution of a Stochastic SIRS Epidemic Model Incorporating Media Coverage. <i>Journal of Advances in Mathematics and Computer Science</i> , 0, , 1-19.	0.3	0

#	ARTICLE	IF	CITATIONS
181	EXTINCTION AND STATIONARY DISTRIBUTION OF A STOCHASTIC PREDATOR-PREY MODEL WITH HOLLING II FUNCTIONAL RESPONSE AND STAGE STRUCTURE OF PREY. <i>Journal of Applied Analysis and Computation</i> , 2020, .	0.2	1
182	DYNAMICS OF AN IMPULSIVE STOCHASTIC SIR EPIDEMIC MODEL WITH SATURATED INCIDENCE RATE. <i>Journal of Applied Analysis and Computation</i> , 2020, 10, 1396-1415.	0.2	0
183	TRANSMISSION DYNAMICS OF STOCHASTIC SVIR INFLUENZA MODELS WITH MEDIA COVERAGE. <i>Journal of Applied Analysis and Computation</i> , 2020, .	0.2	1
184	ASYMPTOTIC BEHAVIOUR OF THE STOCHASTIC KERR-THOMPSON MODEL WITH A FORGETTING MECHANISM ON OPEN POPULATIONS. <i>ANZIAM Journal</i> , 2020, 62, 185-208.	0.3	4
185	The impact of nonlinear perturbation to the dynamics of HIV model. <i>Mathematical Methods in the Applied Sciences</i> , 0, , .	1.2	1
186	Forward attractor for stochastic chemostat model with multiplicative noise. <i>Chaos, Solitons and Fractals</i> , 2021, 153, 111585.	2.5	4
187	Complex Dynamics of a Dysentery Diarrhoea Epidemic Model With Treatment and Sanitation Under Environmental Stochasticity: Persistence, Extinction and Ergodicity. <i>IEEE Access</i> , 2021, 9, 161129-161140.	2.6	0
188	Dynamic properties for a stochastic food chain model. <i>Chaos, Solitons and Fractals</i> , 2022, 155, 111713.	2.5	3
189	Ergodic stationary distribution and extinction of a staged progression HIV/AIDS infection model with nonlinear stochastic perturbations. <i>Nonlinear Dynamics</i> , 2022, 107, 3863-3886.	2.7	2
190	Dynamics of a stochastic COVID-19 epidemic model considering asymptomatic and isolated infected individuals. <i>Mathematical Biosciences and Engineering</i> , 2022, 19, 5169-5189.	1.0	2
191	The threshold dynamics of a stochastic two-patch brucellosis model. <i>Stochastic Models</i> , 0, , 1-34.	0.3	0
192	Stationary Distribution, Extinction and Probability Density Function of a Stochastic Vegetation-Water Model in Arid Ecosystems. <i>Journal of Nonlinear Science</i> , 2022, 32, 1.	1.0	12
193	Dynamics of a stochastic cholera epidemic model with Lévy process. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022, 595, 127069.	1.2	9
194	Stationary distribution, extinction, density function and periodicity of an n-species competition system with infinite distributed delays and nonlinear perturbations. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2023, 28, 294.	0.5	1
195	Bifurcation analysis of a food chain chemostat model with Michaelis-Menten functional response and double delays. <i>AIMS Mathematics</i> , 2022, 7, 12154-12176.	0.7	3
196	Threshold dynamics in a stochastic chemostat model under regime switching. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022, 599, 127454.	1.2	2
197	A stochastic SEIRS rabies model with population dispersal: Stationary distribution and probability density function. <i>Applied Mathematics and Computation</i> , 2022, 427, 127189.	1.4	8
198	Stationary Distribution and Extinction of a Stochastic Brucellosis Model with Standard Incidence. <i>Computational and Mathematical Methods in Medicine</i> , 2022, 2022, 1-15.	0.7	1

#	ARTICLE	IF	CITATIONS
199	A size-structured model describing flocculation of unicellular algae. Applied Mathematical Modelling, 2022, 110, 149-171.	2.2	2
200	A Stochastic Non-autonomous Chemostat Model with Mean-reverting Ornstein-Uhlenbeck Process on the Washout Rate. Journal of Dynamics and Differential Equations, 0, , .	1.0	6
201	Qualitative Analysis of an HIV/AIDS Model with Treatment and Nonlinear Perturbation. Qualitative Theory of Dynamical Systems, 2022, 21, .	0.8	4
202	The dynamics of a stochastic SEI model with standard incidence and infectivity in incubation period. AIMS Mathematics, 2022, 7, 18218-18238.	0.7	2
203	Asymptotic behavior and extinction of a stochastic predator-prey model with Holling type II functional response and disease in the prey. Mathematical Methods in the Applied Sciences, 0, , .	1.2	0
204	Analysis of an avian influenza model with Allee effect and stochasticity. International Journal of Biomathematics, 2023, 16, .	1.5	2
205	The general chemostat model with multiple nutrients and flocculating agent: From deterministic behavior to stochastic forcing transition. Communications in Nonlinear Science and Numerical Simulation, 2023, 117, 106910.	1.7	2
206	Survival and ergodicity of a stochastic microorganism flocculation model with nonlinear response functionals. Nonlinear Dynamics, 0, , .	2.7	0
207	Impacts of demographic and environmental stochasticity on population dynamics with cooperative effects. Mathematical Biosciences, 2022, 353, 108910.	0.9	12
208	DYNAMICAL BEHAVIORS OF A STOCHASTIC PREDATOR-PREY MODEL WITH ANTI-PREDATOR BEHAVIOR. Journal of Applied Analysis and Computation, 2020, .	0.2	0
209	Threshold behaviour of a stochastic SIRS \mathcal{L}^e jump model with saturated incidence and vaccination. Mathematical Biosciences and Engineering, 2022, 20, 1402-1419.	1.0	0
210	Effects of Random Environmental Perturbation on the Dynamics of a Nutrient-Phytoplankton-Zooplankton Model with Nutrient Recycling. Mathematics, 2022, 10, 3783.	1.1	0
211	STOCHASTIC PERIODIC SOLUTION OF A NUTRIENT-PLANKTON MODEL WITH SEASONAL FLUCTUATION. Journal of Biological Systems, 0, , 1-26.	0.5	2
212	Dynamics of a stochastic delayed chemostat model with nutrient storage and Lévy jumps. Chaos, Solitons and Fractals, 2022, 165, 112773.	2.5	2
213	Statistical property analysis for a stochastic chemostat model with degenerate diffusion. AIMS Mathematics, 2023, 8, 1757-1769.	0.7	1
214	Complex bifurcations and noise-induced transitions: A predation model with fear effect in prey and crowding effect in predators. Discrete and Continuous Dynamical Systems - Series B, 2023, 28, 3837-3867.	0.5	2
215	Analysis of a microfluidic chemostat model with random dilution ratios. Stochastics and Dynamics, 0, , .	0.6	0
216	Chemostat models with Monod and Haldane consumption functions and random environmental fluctuations. Mathematical Methods in the Applied Sciences, 0, , .	1.2	2

#	ARTICLE	IF	CITATIONS
218	Stationary distribution, density function and extinction of stochastic vegetation-water systems. Communications in Nonlinear Science and Numerical Simulation, 2023, 120, 107157.	1.7	3
219	Dynamics of an HIV/AIDS transmission model with protection awareness and fluctuations. Chaos, Solitons and Fractals, 2023, 169, 113224.	2.5	14
220	Stochastic dynamical analysis of the co-infection of the fractional pneumonia and typhoid fever disease model with cost-effective techniques and crossover effects. AEJ - Alexandria Engineering Journal, 2023, 69, 35-55.	3.4	3
221	Long-time analysis of a stochastic chemostat model with instantaneous nutrient recycling. AIMS Mathematics, 2023, 8, 9331-9351.	0.7	0
222	A generalized stochastic SIRS epidemic model incorporating mean-reverting Ornstein-Uhlenbeck process. Physica A: Statistical Mechanics and Its Applications, 2023, 615, 128609.	1.2	2