

Shigui Ruan

List of Publications by Citations

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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.

244
papers

10,711
citations

54
h-index

95
g-index

260
ext. papers

12,186
ext. citations

2.3
avg, IF

7.01
L-index

#	Paper	IF	Citations
244	A delay-differential equation model of HIV infection of CD4(+) T-cells. <i>Mathematical Biosciences</i> , 2000 , 165, 27-39	3.9	402
243	Dynamical behavior of an epidemic model with a nonlinear incidence rate. <i>Journal of Differential Equations</i> , 2003 , 188, 135-163	2.1	385
242	Global Analysis in a Predator-Prey System with Nonmonotonic Functional Response. <i>SIAM Journal on Applied Mathematics</i> , 2001 , 61, 1445-1472	1.8	319
241	Global analysis of an epidemic model with nonmonotone incidence rate. <i>Mathematical Biosciences</i> , 2007 , 208, 419-29	3.9	309
240	Stability and bifurcation in a neural network model with two delays. <i>Physica D: Nonlinear Phenomena</i> , 1999 , 130, 255-272	3.3	304
239	Uniform persistence and flows near a closed positively invariant set. <i>Journal of Dynamics and Differential Equations</i> , 1994 , 6, 583-600	1.3	249
238	Modelling strategies for controlling SARS outbreaks. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004 , 271, 2223-32	4.4	210
237	A mathematical model of cell-to-cell spread of HIV-1 that includes a time delay. <i>Journal of Mathematical Biology</i> , 2003 , 46, 425-44	2	204
236	Global dynamics of a ratio-dependent predator-prey system. <i>Journal of Mathematical Biology</i> , 2001 , 43, 268-90	2	199
235	Travelling wave fronts in reaction-diffusion systems with spatio-temporal delays. <i>Journal of Differential Equations</i> , 2006 , 222, 185-232	2.1	195
234	Prevention and Control of Zika as a Mosquito-Borne and Sexually Transmitted Disease: A Mathematical Modeling Analysis. <i>Scientific Reports</i> , 2016 , 6, 28070	4.9	193
233	Modeling the invasion of community-acquired methicillin-resistant <i>Staphylococcus aureus</i> into hospitals. <i>Clinical Infectious Diseases</i> , 2009 , 48, 274-84	11.6	167
232	On the zeros of a third degree exponential polynomial with applications to a delayed model for the control of testosterone secretion. <i>Mathematical Medicine and Biology</i> , 2001 , 18, 41-52	1.3	165
231	Bifurcations in an epidemic model with constant removal rate of the infectives. <i>Journal of Mathematical Analysis and Applications</i> , 2004 , 291, 775-793	1.1	163
230	Predator-prey models with delay and prey harvesting. <i>Journal of Mathematical Biology</i> , 2001 , 43, 247-67	2	158
229	Existence of travelling wave solutions in delayed reaction-diffusion systems with applications to diffusion-competition systems. <i>Nonlinearity</i> , 2006 , 19, 1253-1273	1.7	156
228	Likelihood of survival of coronavirus disease 2019. <i>Lancet Infectious Diseases</i> , The , 2020 , 20, 630-631	25.5	153

227	Optimal HIV treatment by maximising immune response. <i>Journal of Mathematical Biology</i> , 2004 , 48, 545-62		148
226	Uniform Persistence in Functional Differential Equations. <i>Journal of Differential Equations</i> , 1995 , 115, 173-192	2.1	137
225	Dynamics of a two-neuron system with discrete and distributed delays. <i>Physica D: Nonlinear Phenomena</i> , 2004 , 191, 323-342	3.3	127
224	The effects of human movement on the persistence of vector-borne diseases. <i>Journal of Theoretical Biology</i> , 2009 , 258, 550-60	2.3	125
223	Absolute stability, conditional stability and bifurcation in Kolmogorov-type predator-prey systems with discrete delays. <i>Quarterly of Applied Mathematics</i> , 2001 , 59, 159-173	0.7	123
222	Modeling the transmission dynamics and control of hepatitis B virus in China. <i>Journal of Theoretical Biology</i> , 2010 , 262, 330-8	2.3	122
221	Existence and stability of traveling wave fronts in reaction advection diffusion equations with nonlocal delay. <i>Journal of Differential Equations</i> , 2007 , 238, 153-200	2.1	120
220	Traveling Fronts in Monostable Equations with Nonlocal Delayed Effects. <i>Journal of Dynamics and Differential Equations</i> , 2008 , 20, 573-607	1.3	120
219	Simulating the SARS outbreak in Beijing with limited data. <i>Journal of Theoretical Biology</i> , 2004 , 227, 369-395		119
218	Bifurcations in a predator-prey system of Leslie type with generalized Holling type III functional response. <i>Journal of Differential Equations</i> , 2014 , 257, 1721-1752	2.1	114
217	A model of antibiotic-resistant bacterial epidemics in hospitals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 13343-8	11.5	109
216	Convergence and Travelling Fronts in Functional Differential Equations with Nonlocal Terms: A Competition Model. <i>SIAM Journal on Mathematical Analysis</i> , 2003 , 35, 806-822	1.7	106
215	On the delayed Ross-Macdonald model for malaria transmission. <i>Bulletin of Mathematical Biology</i> , 2008 , 70, 1098-114	2.1	104
214	Persistence and coexistence in zooplankton-phytoplankton-nutrient models with instantaneous nutrient recycling. <i>Journal of Mathematical Biology</i> , 1993 , 31, 633-654	2	100
213	On Nonlinear Dynamics of Predator-Prey Models with Discrete Delay. <i>Mathematical Modelling of Natural Phenomena</i> , 2009 , 4, 140-188	3	99
212	Multiple Bifurcations in a Delayed Predator-Prey System with Nonmonotonic Functional Response. <i>Journal of Differential Equations</i> , 2001 , 176, 494-510	2.1	97
211	Global dynamics of a delayed within-host viral infection model with both virus-to-cell and cell-to-cell transmissions. <i>Mathematical Biosciences</i> , 2015 , 270, 183-91	3.9	95
210	Modeling antibiotic resistance in hospitals: the impact of minimizing treatment duration. <i>Journal of Theoretical Biology</i> , 2007 , 249, 487-99	2.3	95

209	Entire solutions in bistable reaction-diffusion equations with nonlocal delayed nonlinearity. <i>Transactions of the American Mathematical Society</i> , 2008 , 361, 2047-2084	1	93
208	Stability of steady states and existence of travelling waves in a vector-disease model. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2004 , 134, 991-1011	1	93
207	Existence of traveling wave solutions in a diffusive predator-prey model. <i>Journal of Mathematical Biology</i> , 2003 , 46, 132-52	2	88
206	A Mathematical Study of the Hematopoiesis Process with Applications to Chronic Myelogenous Leukemia. <i>SIAM Journal on Applied Mathematics</i> , 2005 , 65, 1328-1352	1.8	87
205	Analysis of rabies in China: transmission dynamics and control. <i>PLoS ONE</i> , 2011 , 6, e20891	3.7	86
204	Analysis of SIR epidemic models with nonlinear incidence rate and treatment. <i>Mathematical Biosciences</i> , 2012 , 238, 12-20	3.9	83
203	On the Diffusive Nicholson-Blowflies Equation with Nonlocal Delay. <i>Journal of Nonlinear Science</i> , 2007 , 17, 505-525	2.8	83
202	Competition in the Chemostat: A Distributed Delay Model and Its Global Asymptotic Behavior. <i>SIAM Journal on Applied Mathematics</i> , 1997 , 57, 1281-1310	1.8	80
201	The effect of global travel on the spread of sars. <i>Mathematical Biosciences and Engineering</i> , 2006 , 3, 205-18		73
200	The impact of different antibiotic regimens on the emergence of antimicrobial-resistant bacteria. <i>PLoS ONE</i> , 2008 , 3, e4036	3.7	67
199	Oscillations in plankton models with nutrient recycling. <i>Journal of Theoretical Biology</i> , 2001 , 208, 15-26	2.3	67
198	QUALITATIVE ANALYSIS OF A NEURAL NETWORK MODEL WITH MULTIPLE TIME DELAYS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1999 , 09, 1585-1595	2	67
197	Periodic solutions of planar systems with two delays. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 1999 , 129, 1017-1032	1	64
196	An SIS patch model with variable transmission coefficients. <i>Mathematical Biosciences</i> , 2011 , 232, 110-5	3.9	63
195	Bifurcation Analysis of a Chemostat Model with a Distributed Delay. <i>Journal of Mathematical Analysis and Applications</i> , 1996 , 204, 786-812	1.1	63
194	Existence, Uniqueness and Asymptotic Stability of Time Periodic Traveling Waves for a Periodic Lotka-Volterra Competition System with Diffusion. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2011 , 96, 627-671	1.7	62
193	Travelling Wave Solutions in Multigroup Age-Structured Epidemic Models. <i>Archive for Rational Mechanics and Analysis</i> , 2010 , 195, 311-331	2.3	61
192	A MULTI-PATCH MALARIA MODEL WITH LOGISTIC GROWTH POPULATIONS. <i>SIAM Journal on Applied Mathematics</i> , 2012 , 72, 819-841	1.8	58

191	Modeling seasonal rabies epidemics in China. <i>Bulletin of Mathematical Biology</i> , 2012 , 74, 1226-51	2.1	55
190	Stability and Bifurcation in Delay Differential Equations with Two Delays. <i>Journal of Mathematical Analysis and Applications</i> , 1999 , 236, 254-280	1.1	54
189	Modelling hematopoiesis mediated by growth factors with applications to periodic hematological diseases. <i>Bulletin of Mathematical Biology</i> , 2006 , 68, 2321-51	2.1	53
188	The effect of delays on stability and persistence in plankton models. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1995 , 24, 575-585	1.3	53
187	Hopf bifurcation for non-densely defined Cauchy problems. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2011 , 62, 191-222	1.6	52
186	Spatial, temporal and spatiotemporal patterns of diffusive predator-prey models with mutual interference. <i>IMA Journal of Applied Mathematics</i> , 2015 , 80, 1534-1568	1	50
185	Analysis of three species Lotka-Volterra food web models with omnivory. <i>Journal of Mathematical Analysis and Applications</i> , 2015 , 426, 659-687	1.1	50
184	Bifurcation analysis in a predator-prey model with constant-yield predator harvesting. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2013 , 18, 2101-2121	1.3	49
183	Coexistence in competition models with density-dependent mortality. <i>Comptes Rendus - Biologies</i> , 2007 , 330, 845-54	1.4	49
182	Persistence and Extinction in Two Species Reaction-Diffusion Systems with Delays. <i>Journal of Differential Equations</i> , 1999 , 156, 71-92	2.1	49
181	Global Stability in Chemostat-Type Competition Models with Nutrient Recycling. <i>SIAM Journal on Applied Mathematics</i> , 1998 , 58, 170-192	1.8	47
180	Coexistence of Limit Cycles and Homoclinic Loops in a SIRS Model with a Nonlinear Incidence Rate. <i>SIAM Journal on Applied Mathematics</i> , 2008 , 69, 621-639	1.8	46
179	Center manifolds for semilinear equations with non-dense domain and applications to Hopf bifurcation in age structured models. <i>Memoirs of the American Mathematical Society</i> , 2009 , 202, 0-0	1.5	46
178	Traveling Wave Solutions for Delayed Reaction-Diffusion Systems and Applications to Diffusive Lotka-Volterra Competition Models with Distributed Delays. <i>Journal of Dynamics and Differential Equations</i> , 2014 , 26, 583-605	1.3	45
177	Global stability in chemostat-type plankton models with delayed nutrient recycling. <i>Journal of Mathematical Biology</i> , 1998 , 37, 253-271	2	45
176	Time periodic traveling wave solutions for periodic advection-reaction-diffusion systems. <i>Journal of Differential Equations</i> , 2014 , 257, 1078-1147	2.1	44
175	Periodic oscillations in leukopoiesis models with two delays. <i>Journal of Theoretical Biology</i> , 2006 , 242, 288-99	2.3	44
174	Efficacy of infection control interventions in reducing the spread of multidrug-resistant organisms in the hospital setting. <i>PLoS ONE</i> , 2012 , 7, e30170	3.7	44

173	Hopf bifurcation in three-species food chain models with group defense. <i>Mathematical Biosciences</i> , 1992 , 111, 73-87	3.9	42
172	Bifurcation analysis of an SIRS epidemic model with a generalized nonmonotone and saturated incidence rate. <i>Journal of Differential Equations</i> , 2019 , 267, 1859-1898	2.1	41
171	Stability and Hopf bifurcation in a mathematical model of pluripotent stem cell dynamics. <i>Nonlinear Analysis: Real World Applications</i> , 2005 , 6, 651-670	2.1	40
170	Intraspecific interference and consumer-resource dynamics. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2004 , 4, 527-546	1.3	40
169	Modeling the spread of methicillin-resistant Staphylococcus aureus in nursing homes for elderly. <i>PLoS ONE</i> , 2012 , 7, e29757	3.7	38
168	CODIMENSION TWO BIFURCATIONS IN A PREDATOR-PREY SYSTEM WITH GROUP DEFENSE. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2001 , 11, 2123-2131	2	38
167	Bifurcations in a discrete predator-prey model with nonmonotonic functional response. <i>Journal of Mathematical Analysis and Applications</i> , 2018 , 464, 201-230	1.1	37
166	Turing instability and travelling waves in diffusive plankton models with delayed nutrient recycling. <i>IMA Journal of Applied Mathematics</i> , 1998 , 61, 15-32	1	37
165	Monostable wavefronts in cooperative Lotka-Volterra systems with nonlocal delays. <i>Discrete and Continuous Dynamical Systems</i> , 2011 , 31, 1-23	2	37
164	Transmission dynamics and optimal control of measles epidemics. <i>Applied Mathematics and Computation</i> , 2015 , 256, 131-147	2.7	36
163	Bifurcations in Delay Differential Equations and Applications to Tumor and Immune System Interaction Models. <i>SIAM Journal on Applied Dynamical Systems</i> , 2013 , 12, 1847-1888	2.8	36
162	An Age-Structured Model for the Transmission Dynamics of Hepatitis B. <i>SIAM Journal on Applied Mathematics</i> , 2010 , 70, 3121-3139	1.8	36
161	Bifurcations of Invariant Tori in Predator-Prey Models with Seasonal Prey Harvesting. <i>SIAM Journal on Applied Mathematics</i> , 2013 , 73, 1876-1905	1.8	35
160	Modeling methicillin-resistant Staphylococcus aureus in hospitals: transmission dynamics, antibiotic usage and its history. <i>Theoretical Biology and Medical Modelling</i> , 2012 , 9, 25	2.3	34
159	The Effects of Harvesting and Time Delay on Predator-prey Systems with Holling Type II Functional Response. <i>SIAM Journal on Applied Mathematics</i> , 2009 , 70, 1178-1200	1.8	34
158	Global Stability in Chemostat-Type Equations with Distributed Delays. <i>SIAM Journal on Mathematical Analysis</i> , 1998 , 29, 681-696	1.7	34
157	DIFFUSION-DRIVEN INSTABILITY IN THE GIERER-MEINHARDT MODEL OF MORPHOGENESIS. <i>Natural Resource Modelling</i> , 1998 , 11, 131-141	1.2	34
156	Bifurcations of an SIRS epidemic model with nonlinear incidence rate. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2011 , 15, 93-112	1.3	34

155	Theory and Applications of Abstract Semilinear Cauchy Problems. <i>Applied Mathematical Sciences (Switzerland)</i> , 2018 ,	0.9	34
154	Nonlinear dynamics of avian influenza epidemic models. <i>Mathematical Biosciences</i> , 2017 , 283, 118-135	3.9	33
153	Hopf bifurcation in a size-structured population dynamic model with random growth. <i>Journal of Differential Equations</i> , 2009 , 247, 956-1000	2.1	33
152	Schistosomiasis transmission and control in China. <i>Acta Tropica</i> , 2015 , 143, 51-7	3.2	31
151	Dynamics of rabies epidemics and the impact of control efforts in Guangdong Province, China. <i>Journal of Theoretical Biology</i> , 2012 , 300, 39-47	2.3	30
150	Interaction of diffusion and delay. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2007 , 8, 95-105	1.3	30
149	Global stability of an age-structured virus dynamics model with Beddington-DeAngelis infection function. <i>Mathematical Biosciences and Engineering</i> , 2015 , 12, 859-77	2.1	29
148	Patterns of patchy spread in multi-species reaction-diffusion models. <i>Ecological Complexity</i> , 2008 , 5, 313-328	2.6	29
147	Stability and backward bifurcation in a malaria transmission model with applications to the control of malaria in China. <i>Mathematical Biosciences</i> , 2015 , 266, 52-64	3.9	28
146	Periodic and chaotic oscillations in a tumor and immune system interaction model with three delays. <i>Chaos</i> , 2014 , 24, 023101	3.3	28
145	Traveling wave solutions in a two-group epidemic model with latent period. <i>Nonlinearity</i> , 2017 , 30, 1287-1325	1.7	27
144	Bifurcation of Codimension 3 in a Predator-Prey System of Leslie Type with Simplified Holling Type IV Functional Response. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2016 , 26, 1650034	2	26
143	Global dynamics of avian influenza epidemic models with psychological effect. <i>Computational and Mathematical Methods in Medicine</i> , 2015 , 2015, 913726	2.8	26
142	Modelling the transmission dynamics of meticillin-resistant Staphylococcus aureus in Beijing Tongren hospital. <i>Journal of Hospital Infection</i> , 2011 , 79, 302-8	6.9	26
141	Modeling the transmission dynamics and control of rabies in China. <i>Mathematical Biosciences</i> , 2017 , 286, 65-93	3.9	25
140	A comparison study of Zika virus outbreaks in French Polynesia, Colombia and the State of Bahia in Brazil. <i>Scientific Reports</i> , 2017 , 7, 273	4.9	25
139	Modeling Nosocomial Infections of Methicillin-Resistant Staphylococcus aureus with Environment Contamination. <i>Scientific Reports</i> , 2017 , 7, 580	4.9	25
138	Normal forms for semilinear equations with non-dense domain with applications to age structured models. <i>Journal of Differential Equations</i> , 2014 , 257, 921-1011	2.1	25

137	Spreading speeds and traveling waves in competitive recursion systems. <i>Journal of Mathematical Biology</i> , 2011 , 62, 165-201	2	25
136	Competition of hospital-acquired and community-acquired methicillin-resistant <i>Staphylococcus aureus</i> strains in hospitals. <i>Journal of Biological Dynamics</i> , 2010 , 4, 115-29	2.4	25
135	Mathematical modelling and control of schistosomiasis in Hubei Province, China. <i>Acta Tropica</i> , 2010 , 115, 119-25	3.2	25
134	Instability in Diffusive Ecological Models with Nonlocal Delay Effects. <i>Journal of Mathematical Analysis and Applications</i> , 2001 , 258, 269-286	1.1	25
133	Oscillations of Second Order Neutral Differential Equations. <i>Canadian Mathematical Bulletin</i> , 1993 , 36, 485-496	0.6	25
132	Traveling wave solutions in delayed lattice differential equations with partial monotonicity. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2005 , 60, 1331-1350	1.3	24
131	The within-host dynamics of malaria infection with immune response. <i>Mathematical Biosciences and Engineering</i> , 2011 , 8, 999-1018	2.1	24
130	Modeling the spatial spread of Rift Valley fever in Egypt. <i>Bulletin of Mathematical Biology</i> , 2013 , 75, 523-42		23
129	Qualitative analysis of models with different treatment protocols to prevent antibiotic resistance. <i>Mathematical Biosciences</i> , 2010 , 227, 56-67	3.9	23
128	Versal unfoldings of predator-prey systems with ratio-dependent functional response. <i>Journal of Differential Equations</i> , 2010 , 249, 1410-1435	2.1	23
127	Coinfection Dynamics of Two Diseases in a Single Host Population. <i>Journal of Mathematical Analysis and Applications</i> , 2016 , 442, 171-188	1.1	22
126	Global properties of vector-host disease models with time delays. <i>Journal of Mathematical Biology</i> , 2017 , 74, 1397-1423	2	21
125	Entire solutions for nonlocal dispersal equations with spatio-temporal delay: Monostable case. <i>Journal of Differential Equations</i> , 2015 , 258, 2435-2470	2.1	21
124	Modelling diapause in mosquito population growth. <i>Journal of Mathematical Biology</i> , 2019 , 78, 2259-2288		20
123	Dynamics of a nonlocal dispersal SIS epidemic model with Neumann boundary conditions. <i>Journal of Differential Equations</i> , 2019 , 267, 2011-2051	2.1	20
122	A modeling approach to investigate epizootic outbreaks and enzootic maintenance of Rift Valley fever virus. <i>Bulletin of Mathematical Biology</i> , 2014 , 76, 2052-72	2.1	20
121	Entire Solutions in Lattice Delayed Differential Equations with Nonlocal Interaction: Bistable Cases. <i>Mathematical Modelling of Natural Phenomena</i> , 2013 , 8, 78-103	3	20
120	Projectors on the generalized eigenspaces for functional differential equations using integrated semigroups. <i>Journal of Differential Equations</i> , 2008 , 244, 1784-1809	2.1	20

119	Dynamics of human T-cell lymphotropic virus I (HTLV-I) infection of CD4+ T-cells. <i>Comptes Rendus - Biologies</i> , 2004 , 327, 1009-16	1.4	20
118	On the sexual transmission dynamics of hepatitis B virus in China. <i>Journal of Theoretical Biology</i> , 2015 , 369, 1-12	2.3	19
117	Traveling wave solutions in a two-group SIR epidemic model with constant recruitment. <i>Journal of Mathematical Biology</i> , 2018 , 77, 1871-1915	2	19
116	Periodicity and synchronization in blood-stage malaria infection. <i>Journal of Mathematical Biology</i> , 2011 , 63, 557-74	2	19
115	Sustained oscillations in an evolutionary epidemiological model of influenza A drift. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2010 , 466, 965-992	2.4	19
114	Control of invasive hosts by generalist parasitoids. <i>Mathematical Medicine and Biology</i> , 2008 , 25, 1-20	1.3	18
113	Persistence in three-species food chain models with group defense. <i>Mathematical Biosciences</i> , 1991 , 107, 111-25	3.9	18
112	Modeling and control of local outbreaks of West Nile virus in the United States. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2016 , 21, 2423-2449	1.3	18
111	On avian influenza epidemic models with time delay. <i>Theory in Biosciences</i> , 2015 , 134, 75-82	1.3	17
110	Stability and bifurcation analysis in hematopoietic stem cell dynamics with multiple delays. <i>Physica D: Nonlinear Phenomena</i> , 2010 , 239, 2011-2024	3.3	17
109	Spatio-temporal delays in a nutrient-plankton model on a finite domain: linear stability and bifurcations. <i>Applied Mathematics and Computation</i> , 2003 , 145, 391-412	2.7	17
108	A PERIODIC ROSS-MACDONALD MODEL IN A PATCHY ENVIRONMENT. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2014 , 19, 3133-3145	1.3	17
107	A free boundary problem for <i>Aedes aegypti</i> mosquito invasion. <i>Applied Mathematical Modelling</i> , 2017 , 46, 203-217	4.5	16
106	Modeling the geographic spread of rabies in China. <i>PLoS Neglected Tropical Diseases</i> , 2015 , 9, e0003772	4.8	16
105	Susceptible-infectious-recovered models revisited: from the individual level to the population level. <i>Mathematical Biosciences</i> , 2014 , 250, 26-40	3.9	16
104	Spatiotemporal Dynamics of a Diffusive Leslie-Gower Predator-Prey Model with Ratio-Dependent Functional Response. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2015 , 25, 1530014	2	16
103	Qualitative analysis of a chemostat model with inhibitory exponential substrate uptake. <i>Chaos, Solitons and Fractals</i> , 2005 , 23, 873-886	9.3	16
102	Stable periodic oscillations in a two-stage cancer model of tumor and immune system interactions. <i>Mathematical Biosciences and Engineering</i> , 2012 , 9, 347-68	2.1	16

101	Seasonal transmission dynamics of measles in China. <i>Theory in Biosciences</i> , 2018 , 137, 185-195	1.3	16
100	Pattern Formation and Synchronism in an Allelopathic Plankton Model with Delay in a Network. <i>SIAM Journal on Applied Dynamical Systems</i> , 2019 , 18, 531-557	2.8	15
99	Modelling the effects of seasonality and socioeconomic impact on the transmission of rift valley Fever virus. <i>PLoS Neglected Tropical Diseases</i> , 2015 , 9, e3388	4.8	15
98	Spatial and Temporal Dynamics of a Nonlocal Viral Infection Model. <i>SIAM Journal on Applied Mathematics</i> , 2018 , 78, 1954-1980	1.8	15
97	Existence, uniqueness and stability of pyramidal traveling fronts in reaction-diffusion systems. <i>Science China Mathematics</i> , 2016 , 59, 1869-1908	0.8	15
96	Bogdanov-Takens bifurcation of codimension 3 in a predator-prey model with constant-yield predator harvesting. <i>Communications on Pure and Applied Analysis</i> , 2016 , 15, 1041-1055	1.9	14
95	Oscillations in age-structured models of consumer-resource mutualisms. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2015 , 21, 537-555	1.3	14
94	Bifurcation analysis in a host-generalist parasitoid model with Holling II functional response. <i>Journal of Differential Equations</i> , 2020 , 268, 4618-4662	2.1	14
93	Bifurcation Analysis of a Mosquito Population Model with a Saturated Release Rate of Sterile Mosquitoes. <i>SIAM Journal on Applied Dynamical Systems</i> , 2019 , 18, 939-972	2.8	13
92	Analysis of a Dengue Model with Vertical Transmission and Application to the 2014 Dengue Outbreak in Guangdong Province, China. <i>Bulletin of Mathematical Biology</i> , 2018 , 80, 2633-2651	2.1	13
91	Kamenev Type Theorems for Second Order Matrix Differential Systems. <i>Proceedings of the American Mathematical Society</i> , 1993 , 117, 957	0.8	13
90	On the dynamics of two-consumers-one-resource competing systems with Beddington-DeAngelis functional response. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2013 , 18, 2331-2353	1.3	13
89	A mathematical model for the seasonal transmission of schistosomiasis in the lake and marshland regions of China. <i>Mathematical Biosciences and Engineering</i> , 2017 , 14, 1279-1299	2.1	13
88	Oscillations for first order neutral differential equations with variable coefficients. <i>Bulletin of the Australian Mathematical Society</i> , 1991 , 43, 147-152	0.4	12
87	Traveling wave solutions for time periodic reaction-diffusion systems. <i>Discrete and Continuous Dynamical Systems</i> , 2018 , 38, 4329-4351	2	12
86	Optimal control of environmental cleaning and antibiotic prescription in an epidemiological model of methicillin-resistant Staphylococcus aureus infections in hospitals. <i>Mathematical Biosciences</i> , 2019 , 311, 13-30	3.9	11
85	Bifurcation analysis in models of tumor and immune system interactions. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2009 , 12, 151-168	1.3	11
84	Spatial-Temporal Dynamics in Nonlocal Epidemiological Models 2007 , 97-122		11

83	Modeling and analyzing the transmission dynamics of visceral leishmaniasis. <i>Mathematical Biosciences and Engineering</i> , 2017 , 14, 1585-1604	2.1	11
82	Modeling the Transmission Dynamics of Rabies for Dog, Chinese Ferret Badger and Human Interactions in Zhejiang Province, China. <i>Bulletin of Mathematical Biology</i> , 2019 , 81, 939-962	2.1	11
81	Dynamics of a time-periodic two-strain SIS epidemic model with diffusion and latent period. <i>Nonlinear Analysis: Real World Applications</i> , 2020 , 51, 102966	2.1	11
80	Spatial dynamics of a lattice population model with two age classes and maturation delay. <i>European Journal of Applied Mathematics</i> , 2015 , 26, 61-91	1	10
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