Ranjit Kumar Upadhyay

List of Publications by Year
in descending order

168 papers	2,607 citations	201385 27 h-index	301761 39 g-index
172 all docs	172 docs citations	172 times ranked	1228 citing authors

#	Article	IF	Citations
1	Modelling and analysis of delayed tumour–immune system with hunting T-cells. Mathematics and Computers in Simulation, 2023, 203, 669-684.	2.4	12
2	Effect of seasonality on a nutrient–plankton system with toxicity in the presence of refuge and additional food. European Physical Journal Plus, 2022, 137, 1.	1.2	5
3	Combating COVID-19 crisis and predicting the second wave in Europe: an Age-structured modeling. Journal of Applied Mathematics and Computing, 2022, , 1-21.	1.2	1
4	Spatial pattern formation and delay induced destabilization in predator–prey model with fear effect. Mathematical Methods in the Applied Sciences, 2022, 45, 6801-6823.	1.2	5
5	Emergence of Turing patterns and dynamic visualization in excitable neuron model. Applied Mathematics and Computation, 2022, 423, 127010.	1.4	4
6	Cross diffusion induced spatiotemporal pattern in diffusive nutrient–plankton model with nutrient recycling. Mathematics and Computers in Simulation, 2022, 202, 246-272.	2.4	2
7	Emergence of hidden dynamics in different neuronal network architecture with injected electromagnetic induction. Applied Mathematical Modelling, 2022, 111, 288-309.	2.2	11
8	An investigation of delay induced stability transition in nutrient-plankton systems. Chaos, Solitons and Fractals, 2021, 142, 110474.	2.5	18
9	A delayed synthetic drug transmission model with two stages of addiction and Holling Type-II functional response. AIMS Mathematics, 2021, 6, 1-22.	0.7	0
10	Introduction to Diffusive Processes. , 2021, , 1-40.		0
11	Brain Dynamics: Neural Systems in Space and Time. , 2021, , 331-411.		0
12	Modeling the Transmission Dynamics of Zika Virus. , 2021, , 267-330.		0
13	Modeling the Epidemic Spread and Outbreak of Ebola Virus. , 2021, , 215-266.		0
14	Reaction–Diffusion Modeling. , 2021, , 41-109.		0
15	Modeling Virus Dynamics in Time and Space. , 2021, , 111-214.		0
16	Pattern formation in an explosive food chain model: the case of â€œapparentâ€•mutualism. European Physical Journal Plus, 2021, 136, 1.	1.2	2
17	Dynamical analysis for a deterministic SVIRS epidemic model with Holling type II incidence rate and multiple delays. Results in Physics, 2021, 24, 104181.	2.0	5
18	Mathematical model of COVID-19 with comorbidity and controlling using non-pharmaceutical interventions and vaccination. Nonlinear Dynamics, 2021, 106, 1213-1227.	2.7	49

#	Article	IF	Citations
19	Diffusion driven finite time blow-up and pattern formation in a mutualistic preys-sexually reproductive predator system: A comparative study. Chaos, Solitons and Fractals, 2021, 147, 110929.	2.5	2
20	An analytical scheme on complete integrability of 2D biophysical excitable systems. Physica A: Statistical Mechanics and Its Applications, 2021, 573, 125924.	1.2	0
21	Conserving the European Bonelli's eagle in spatiotemporal domain: Lesson from its feeding pattern. Computational and Mathematical Methods, 2021, 3, e1181.	0.3	0
22	Analysis of spatially extended excitable Izhikevich neuron model near instability. Nonlinear Dynamics, 2021, 105, 3515-3527.	2.7	5
23	Dynamics and patterns of species abundance in ocean: A mathematical modeling study. Nonlinear Analysis: Real World Applications, 2021, 60, 103303.	0.9	4
24	Exploring the Dynamics of a Malware Propagation Model and Its Control Strategy. Wireless Personal Communications, 2021, 121, 1945-1978.	1.8	4
25	Exploring the cascading effect of fear on the foraging activities of prey in a three species Agroecosystem. European Physical Journal Plus, 2021, 136, 1.	1.2	7
26	Synchronization and Pattern Formation in a Memristive Diffusive Neuron Model. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2130030.	0.7	10
27	Exploring the behavior of malware propagation on mobile wireless sensor networks: Stability and control analysis. Mathematics and Computers in Simulation, 2021, 190, 246-269.	2.4	20
28	Spatiotemporal characteristics in systems of diffusively coupled excitable slow–fast FitzHugh–Rinzel dynamical neurons. Chaos, 2021, 31, 103122.	1.0	10
29	Special Issue on Nonlinear Models in Biosignaling, Biosensor and Neural Systems—Modeling, Simulations and Applications. Differential Equations and Dynamical Systems, 2021, 29, 749-750.	0.5	0
30	Modeling and control of computer virus attack on a targeted network. Physica A: Statistical Mechanics and Its Applications, 2020, 538, 122617.	1.2	13
31	Strategies for the existence of spatial patterns in predator–prey communities generated by cross-diffusion. Nonlinear Analysis: Real World Applications, 2020, 51, 103018.	0.9	18
32	Modeling the fear effect and stability of non-equilibrium patterns in mutually interfering predator–prey systems. Applied Mathematics and Computation, 2020, 371, 124948.	1.4	19
33	Explosive tritrophic food chain models with interference: A comparative study. Journal of the Franklin Institute, 2020, 357, 385-413.	1.9	3
34	Dynamics comparison between non-spatial and spatial systems of the plankton–fish interaction model. Nonlinear Dynamics, 2020, 99, 2479-2503.	2.7	11
35	MODELING ZIKA TRANSMISSION DYNAMICS: PREVENTION AND CONTROL. Journal of Biological Systems, 2020, 28, 719-749.	0.5	3
36	Exploring dynamical complexity in a time-delayed tumor-immune model. Chaos, 2020, 30, 123118.	1.0	29

#	Article	IF	Citations
37	Dynamics of a delayed SIR model for the transmission of PRRSV among a swine population. Advances in Difference Equations, 2020, 2020, .	3.5	2
38	An epidemic model with multiple delays for the propagation of worms in wireless sensor networks. Results in Physics, 2020, 19, 103424.	2.0	9
39	Age-group-targeted testing for COVID-19 as a new prevention strategy. Nonlinear Dynamics, 2020, 101, 1921-1932.	2.7	15
40	Stability and Hopf bifurcation of a delayed giving up smoking model with harmonic mean type incidence rate and relapse. Results in Physics, 2020, 19, 103619.	2.0	4
41	Parametric Excitation and Hopf Bifurcation Analysis of a Time Delayed Nonlinear Feedback Oscillator. International Journal of Applied and Computational Mathematics, 2020, 6, 1.	0.9	1
42	Modeling the plankton–fish dynamics with top predator interference and multiple gestation delays. Nonlinear Dynamics, 2020, 100, 4003-4029.	2.7	21
43	Emergence of bursting in a network of memory dependent excitable and spiking leech-heart neurons. Journal of the Royal Society Interface, 2020, 17, 20190859.	1.5	8
44	Exploring Complex Dynamics of Spatial Predator–Prey System: Role of Predator Interference and Additional Food. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050102.	0.7	3
45	Optimal treatment strategies for delayed cancer-immune system with multiple therapeutic approach. Chaos, Solitons and Fractals, 2020, 136, 109806.	2.5	31
46	Predator–prey interaction system with mutually interfering predator: role of feedback control. Applied Mathematical Modelling, 2020, 87, 222-244.	2.2	7
47	Stability and Hopf bifurcation analysis of a delayed tobacco smoking model containing snuffing class. Advances in Difference Equations, 2020, 2020, .	3.5	6
48	Global dynamics of stochastic predator–prey model with mutual interference and prey defense. Journal of Applied Mathematics and Computing, 2019, 60, 169-190.	1.2	13
49	Spatial distribution of microalgae in marine systems: A reaction–diffusion model. Ecological Complexity, 2019, 39, 100771.	1.4	7
50	Firing activities of a fractional-order FitzHugh-Rinzel bursting neuron model and its coupled dynamics. Scientific Reports, 2019, 9, 15721.	1.6	46
51	Diffusion dynamics of a conductance-based neuronal population. Physical Review E, 2019, 99, 042307.	0.8	13
52	Bifurcation analysis and diverse firing activities of a modified excitable neuron model. Cognitive Neurodynamics, 2019, 13, 393-407.	2.3	68
53	Viral dynamic model with cellular immune response: A case study of HIV-1 infected humanized mice. Physica A: Statistical Mechanics and Its Applications, 2019, 524, 1-14.	1.2	12
54	Discrete and data packet delays as determinants of switching stability in wireless sensor networks. Applied Mathematical Modelling, 2019, 72, 513-536.	2.2	14

#	Article	IF	Citations
55	Bifurcation and bio-economic analysis of a prey-generalist predator model with Holling type IV functional response and nonlinear age-selective prey harvesting. Chaos, Solitons and Fractals, 2019, 122, 229-235.	2.5	14
56	Dynamics of an SEIR epidemic model with nonlinear incidence and treatment rates. Nonlinear Dynamics, 2019, 96, 2351-2368.	2.7	61
57	Virus dynamics of a distributed attack on a targeted network: Effect of firewall and optimal control. Communications in Nonlinear Science and Numerical Simulation, 2019, 73, 74-91.	1.7	8
58	A delayed e-epidemic SLBS model for computer virus. Advances in Difference Equations, 2019, 2019, .	3.5	6
59	Transmission dynamics of epidemic spread and outbreak of Ebola in West Africa: fuzzy modeling and simulation. Journal of Applied Mathematics and Computing, 2019, 60, 637-671.	1.2	20
60	Population dynamic consequences of fearful prey in a spatiotemporal predator-prey system. Mathematical Biosciences and Engineering, 2019, 16, 338-372.	1.0	45
61	Exploring the dynamics of a tritrophic food chain model with multiple gestation periods. Mathematical Biosciences and Engineering, 2019, 16, 4660-4691.	1.0	9
62	DYNAMIC RELATIONSHIP BETWEEN THE MUTUAL INTERFERENCE AND GESTATION DELAYS OF A HYBRID TRITROPHIC FOOD CHAIN MODEL. ANZIAM Journal, 2018, 59, 370-401.	0.3	7
63	Exploring the dynamics of a Holling–Tanner model with cannibalism in both predator and prey population. International Journal of Biomathematics, 2018, 11, 1850010.	1.5	19
64	Diverse neuronal responses of a fractional-order Izhikevich model: journey from chattering to fast spiking. Nonlinear Dynamics, 2018, 91, 1275-1288.	2.7	16
65	Bifurcation analysis of a modified Leslie–Gower model with Holling type-IV functional response and nonlinear prey harvesting. Advances in Difference Equations, 2018, 2018, .	3.5	9
66	Estimation of biophysical parameters in a neuron model under random fluctuations. Applied Mathematics and Computation, 2018, 329, 364-373.	1.4	4
67	Bifurcation analysis of an e-epidemic model in wireless sensor network. International Journal of Computer Mathematics, 2018, 95, 1775-1805.	1.0	27
68	Detecting malicious chaotic signals in wireless sensor network. Physica A: Statistical Mechanics and Its Applications, 2018, 492, 1129-1152.	1.2	14
69	Spiking and bursting patterns of fractional-order Izhikevich model. Communications in Nonlinear Science and Numerical Simulation, 2018, 56, 161-176.	1.7	51
70	Delay-induced Hopf bifurcation of an SVEIR computer virus model with nonlinear incidence rate. Advances in Difference Equations, 2018, 2018, .	3.5	9
71	The Gestation Delay: A Factor Causing Complex Dynamics in Gause-Type Competition Models. Complexity, 2018, 2018, 1-21.	0.9	5
72	Salton Sea: An ecosystem in crisis. International Journal of Biomathematics, 2018, 11, 1850114.	1.5	5

#	Article	IF	Citations
73	Stability and Hopf Bifurcation of a Delayed Epidemic Model of Computer Virus with Impact of Antivirus Software. Discrete Dynamics in Nature and Society, 2018, 2018, 1-18.	0.5	3
74	Dynamics of a modified excitable neuron model: Diffusive instabilities and traveling wave solutions. Chaos, 2018, 28, 113104.	1.0	6
75	Emergence of Spatial Patterns in a Damaged Diffusive Eco-Epidemiological System. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1830028.	0.7	7
76	Modeling the virus dynamics in computer network with SVEIR model and nonlinear incident rate. Journal of Applied Mathematics and Computing, 2017, 54, 485-509.	1.2	55
77	Parameter estimation in a spiking-bursting H-R neural model with random fluctuation. Differential Equations and Dynamical Systems, 2017, , 1.	0.5	0
78	Synchronization analysis through coupling mechanism in realistic neural models. Applied Mathematical Modelling, 2017, 44, 557-575.	2.2	3
79	DIFFUSIVE THREE SPECIES PLANKTON MODEL IN THE PRESENCE OF TOXIC PREY: APPLICATION TO SUNDARBAN MANGROVE WETLAND. Journal of Biological Systems, 2017, 25, 185-206.	0.5	11
80	On the explosive instability in a three‐species food chain model with modified Holling type IV functional response. Mathematical Methods in the Applied Sciences, 2017, 40, 5707-5726.	1.2	18
81	Ecological chaos and the choice of optimal harvesting policy. Journal of Mathematical Analysis and Applications, 2017, 448, 1533-1559.	0.5	21
82	Synchronization of bursting neurons with a slowly varying d. c. current. Chaos, Solitons and Fractals, 2017, 99, 195-208.	2.5	7
83	Fractional-order leaky integrate-and-fire model with long-term memory and power law dynamics. Neural Networks, 2017, 93, 110-125.	3.3	38
84	Mixed Mode Oscillations and Synchronous Activity in Noise Induced Modified Morris–Lecar Neural System. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1730019.	0.7	32
85	Finite Time Blow-up in a Delayed Diffusive Population Model with Competitive Interference. International Journal of Nonlinear Sciences and Numerical Simulation, 2017, 18, 435-450.	0.4	5
86	A mathematical model for the conservation of forestry resources with two discrete time delays. Modeling Earth Systems and Environment, 2017, 3, 1011-1027.	1.9	3
87	SPATIOTEMPORAL TRANSMISSION DYNAMICS OF RECENT EBOLA OUTBREAK IN SIERRA LEONE, WEST AFRICA: IMPACT OF CONTROL MEASURES. Journal of Biological Systems, 2017, 25, 369-397.	0.5	1
88	Conservation of degraded wetland system of Keoladeo National Park, Bharatpur, India. Ecological Complexity, 2017, 32, 74-89.	1.4	4
89	Dynamics of a modified Hindmarsh–Rose neural model with random perturbations: Moment analysis and firing activities. Physica A: Statistical Mechanics and Its Applications, 2017, 486, 144-160.	1.2	2
90	Complex dynamics of diffusive predator–prey system with Beddington–DeAngelis functional response: The role of prey-taxis. Asian-European Journal of Mathematics, 2017, 10, 1750047.	0.2	6

#	Article	IF	Citations
91	Fractional-order excitable neural system with bidirectional coupling. Nonlinear Dynamics, 2017, 87, 2219-2233.	2.7	10
92	Complex dynamics of sexually reproductive generalist predator and gestation delay in a food chain model: double Hopf-bifurcation to Chaos. Journal of Applied Mathematics and Computing, 2017, 55, 513-547.	1.2	17
93	Investigation of an explosive food chain model with interference and inhibitory effects. IMA Journal of Applied Mathematics, 2017, 82, 1209-1237.	0.8	6
94	Can the control of invasive species be left to chance?. Natural Resources & Engineering, 2016, 1, 13-25.	0.3	0
95	A method for estimation of parameters in a neural model with noisy measurements. Nonlinear Dynamics, 2016, 85, 2521-2533.	2.7	5
96	Deciphering Dynamics of Recent Epidemic Spread and Outbreak in West Africa: The Case of Ebola Virus. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1630024.	0.7	13
97	Wave of chaos in a spatial eco-epidemiological system: Generating realistic patterns of patchiness in rabbit–lynx dynamics. Mathematical Biosciences, 2016, 281, 98-119.	0.9	10
98	Ecological dynamics of age selective harvesting of fish population: Maximum sustainable yield and its control strategy. Chaos, Solitons and Fractals, 2016, 93, 111-122.	2.5	12
99	Long time dynamics of a three-species food chain model with Allee effect in the top predator. Computers and Mathematics With Applications, 2016, 71, 503-528.	1.4	10
100	Assessment of rabbit hemorrhagic disease in controlling the population of red fox: A measure to preserve endangered species in Australia. Ecological Complexity, 2016, 26, 6-20.	1.4	8
101	Disease Spread and Its Effect on Population Dynamics in Heterogeneous Environment. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650004.	0.7	9
102	Predator interference effects on biological control: The "paradox" of the generalist predator revisited. Communications in Nonlinear Science and Numerical Simulation, 2016, 39, 169-184.	1.7	23
103	Harmful algal blooms in fresh and marine water systems: The role of toxin producing phytoplankton. International Journal of Biomathematics, 2016, 09, 1650043.	1.5	10
104	Dynamics and responses of a predator–prey system with competitive interference and time delay. Nonlinear Dynamics, 2016, 83, 821-837.	2.7	23
105	Conserving Iberian Lynx in Europe: Issues and challenges. Ecological Complexity, 2015, 22, 16-31.	1.4	7
106	Dynamics of generalist predator in a stochastic environment: Effect of delayed growth and prey refuge. Applied Mathematics and Computation, 2015, 268, 1072-1094.	1.4	36
107	Complex Dynamics of Wetland Ecosystem with Nonlinear Harvesting: Application to Chilika Lake in Odisha, India. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1540016.	0.7	9
108	Complex dynamics of ecological systems under nonlinear harvesting: Hopf bifurcation and Turing instability. Nonlinear Dynamics, 2015, 79, 2251-2270.	2.7	27

#	Article	IF	Citations
109	Modeling the effect of mutual interference in a delay-induced predator-prey system. Journal of Applied Mathematics and Computing, 2015, 49, 13-39.	1.2	8
110	Spread of a disease and its effect on population dynamics in an eco-epidemiological system. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 4170-4184.	1.7	34
111	Deciphering Dynamics of Epidemic Spread: The Case of Influenza Virus. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1450064.	0.7	10
112	Top-predator interference and gestation delay as determinants of the dynamics of a realistic model food chain. Chaos, Solitons and Fractals, 2014, 69, 50-63.	2.5	55
113	A PREDATOR–PREY INTERACTION MODEL WITH SELF- AND CROSS-DIFFUSION IN AQUATIC SYSTEMS. Journal of Biological Systems, 2014, 22, 691-712.	0.5	7
114	Modeling wetland systems of Keoladeo National Park (KNP), India: the role of space. Wetlands Ecology and Management, 2014, 22, 605-624.	0.7	5
115	Modeling the Complex Dynamics of Epidemic Spread Under Allee Effect. Advances in Intelligent Systems and Computing, 2014, , 117-124.	0.5	1
116	Spatiotemporal dynamics in a delayed diffusive predator model. Applied Mathematics and Computation, 2013, 224, 524-534.	1.4	25
117	Restoration and recovery of damaged eco-epidemiological systems: Application to the Salton Sea, California, USA. Mathematical Biosciences, 2013, 242, 172-187.	0.9	10
118	The role of top predator interference on the dynamics of a food chain model. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 757-768.	1.7	25
119	Finite Time Blowup in a Realistic Food-Chain Model. , 2013, 2013, 1-12.		21
120	Modeling the Spread and Outbreak Dynamics of Avian Influenza (H5N1) Virus and Its Possible Control. , 2013, , 227-250.		0
121	Nonlinear Phenomena in Biology and Medicine. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-2.	0.7	2
122	Pattern Formation in a Cross-Diffusive Holling-Tanner Model. Discrete Dynamics in Nature and Society, 2012, 2012, 1-12.	0.5	8
123	Propagation of Turing patterns in a plankton model. Journal of Biological Dynamics, 2012, 6, 524-538.	0.8	18
124	Complex Population Dynamics in Heterogeneous Environments: Effects of Random and Directed Animal Movements. International Journal of Nonlinear Sciences and Numerical Simulation, 2012, 13, 299-309.	0.4	11
125	Instabilities and Patterns in Zooplankton-Phytoplankton Dynamics: Effect of Spatial Heterogeneity. Communications in Computer and Information Science, 2012, , 229-236.	0.4	1
126	Crisis-Limited Chaotic Dynamics in an Eco-epidemiological System of the Salton Sea. Communications in Computer and Information Science, 2012, , 201-209.	0.4	0

#	Article	IF	Citations
127	Challenges of living in the harsh environments: A mathematical modeling study. Applied Mathematics and Computation, 2011, 217, 10105-10117.	1.4	3
128	DETERMINISTIC CHAOS VERSUS STOCHASTIC OSCILLATION IN A PREY-PREDATOR-TOP PREDATOR MODEL. Mathematical Modelling and Analysis, 2011, 16, 343-364.	0.7	12
129	DIFFUSION-DRIVEN INSTABILITIES AND SPATIO-TEMPORAL PATTERNS IN AN AQUATIC PREDATOR–PREY SYSTEM WITH BEDDINGTON–DEANGELIS TYPE FUNCTIONAL RESPONSE. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 663-684.	0.7	15
130	Complex dynamics of a three species food-chain model with Holling type IV functional response. Nonlinear Analysis: Modelling and Control, 2011, 16, 553-374.	1.1	6
131	Dynamical consequences of predator interference in a tri-trophic model food chain. Nonlinear Analysis: Real World Applications, 2010, 11, 809-818.	0.9	17
132	Spatiotemporal Dynamics in a Spatial Plankton System. Mathematical Modelling of Natural Phenomena, 2010, 5, 102-122.	0.9	30
133	NONLINEAR NON-EQUILIBRIUM PATTERN FORMATION IN A SPATIAL AQUATIC SYSTEM: EFFECT OF FISH PREDATION. Journal of Biological Systems, 2010, 18, 129-159.	0.5	16
134	Chaos control and synchronization of a three-species food chain model via Holling functional response. International Journal of Computer Mathematics, 2010, 87, 199-214.	1.0	28
135	Modeling spatiotemporal dynamics of vole populations in Europe and America. Mathematical Biosciences, 2010, 223, 47-57.	0.9	10
136	Dynamical complexities in a tri-trophic hybrid food chain model with Holling type II and Crowley–Martin functional responses. Nonlinear Analysis: Modelling and Control, 2010, 15, 361-375.	1.1	17
137	Investigation of the long time dynamics of a diffusive three species aquatic model. Dynamics of Partial Differential Equations, 2010, 7, 217-244.	1.0	12
138	OBSERVABILITY OF CHAOS AND CYCLES IN ECOLOGICAL SYSTEMS: LESSONS FROM PREDATOR–PREY MODELS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 3169-3234.	0.7	15
139	Spatiotemporal pattern formation in a diffusive predator-prey system: an analytical approach. Journal of Applied Mathematics and Computing, 2009, 31, 413-432.	1.2	30
140	Wave phenomena and edge of chaos in a diffusive predator-prey system under Allee effect. Differential Equations and Dynamical Systems, 2009, 17, 301-317.	0.5	5
141	Short-term recurrent chaos and role of Toxin Producing Phytoplankton (TPP) on chaotic dynamics in aquatic systems. Chaos, Solitons and Fractals, 2009, 39, 1550-1564.	2.5	12
142	Wave of chaos in a diffusive system: Generating realistic patterns of patchiness in plankton–fish dynamics. Chaos, Solitons and Fractals, 2009, 40, 262-276.	2.5	30
143	Complex dynamics and synchronization in two non-identical chaotic ecological systems. Chaos, Solitons and Fractals, 2009, 40, 2233-2241.	2.5	29
144	Exploring dynamical complexity in diffusion driven predator–prey systems: Effect of toxin producing phytoplankton and spatial heterogeneities. Chaos, Solitons and Fractals, 2009, 42, 584-594.	2.5	12

#	Article	IF	Citations
145	Dynamics of a three species food chain model with Crowley–Martin type functional response. Chaos, Solitons and Fractals, 2009, 42, 1337-1346.	2.5	79
146	Dynamics of an ecological model living on the edge of chaos. Applied Mathematics and Computation, 2009, 210, 455-464.	1.4	14
147	Modeling the spread of bird flu and predicting outbreak diversity. Nonlinear Analysis: Real World Applications, 2008, 9, 1638-1648.	0.9	14
148	Chaos in eco-epidemiological problem of the Salton Sea and its possible control. Applied Mathematics and Computation, 2008, 196, 392-401.	1.4	31
149	Wave of Chaos and Pattern Formation in Spatial Predator-Prey Systems with Holling Type IV Predator Response. Mathematical Modelling of Natural Phenomena, 2008, 3, 71-95.	0.9	22
150	Chaotic Dynamics in a Three Species Aquatic Population Model with Holling Type II Functional Response. Nonlinear Analysis: Modelling and Control, 2008, 13, 103-115.	1.1	4
151	INFLUENCE OF ENVIRONMENTAL NOISE ON THE DYNAMICS OF A REALISTIC ECOLOGICAL MODEL. Fluctuation and Noise Letters, 2007, 07, L61-L77.	1.0	14
152	Trophic structure and dynamical complexity in simple ecological models. Ecological Complexity, 2007, 4, 212-222.	1.4	18
153	Extinction and coexistence of competing prey species in ecological systems. Journal of Computational Methods in Sciences and Engineering, 2006, 6, 131-150.	0.1	1
154	Evolving to the edge of chaos: Chance or necessity?â˜†. Chaos, Solitons and Fractals, 2006, 30, 1074-1087.	2.5	19
155	Modelling the Removal of Primary and Secondary Air Pollutants by Precipitation. International Journal of Nonlinear Sciences and Numerical Simulation, 2006, 7, .	0.4	0
156	Effect of seasonality on the dynamics of 2 and 3 species prey–predator systems. Nonlinear Analysis: Real World Applications, 2005, 6, 509-530.	0.9	65
157	Chaotic population dynamics and biology of the top-predator. Chaos, Solitons and Fractals, 2004, 21, 1195-1204.	2.5	44
158	Effects of industrialization and pollution on resource biomass: a mathematical model. Ecological Modelling, 2003, 167, 83-95.	1.2	32
159	Multiple attractors and crisis route to chaos in a model food-chain. Chaos, Solitons and Fractals, 2003, 16, 737-747.	2.5	53
160	Species extinction problem: genetic vs ecological factors. Applied Mathematical Modelling, 2001, 25, 937-951.	2.2	14
161	Crisis-limited chaotic dynamics in ecological systems. Chaos, Solitons and Fractals, 2001, 12, 205-218.	2.5	45
162	Stability and complexity in ecological systems. Chaos, Solitons and Fractals, 2000, 11, 533-542.	2.5	31

#	Article	IF	Citations
163	How do ecosystems respond to external perturbations?. Chaos, Solitons and Fractals, 2000, 11, 1963-1982.	2.5	19
164	Chaotic behaviour of population dynamic systems in ecology. Mathematical and Computer Modelling, 2000, 32, 1005-1015.	2.0	7
165	Chaos: An Ecological Reality?. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 1325-1333.	0.7	78
166	Why chaos is rarely observed in natural populations. Chaos, Solitons and Fractals, 1997, 8, 1933-1939.	2.5	77
167	Introduction to Mathematical Modeling and Chaotic Dynamics. , 0, , .		33
168	Dynamic relationship between the mutual interference and gestation delays of a hybrid tritrophic food chain model. ANZIAM Journal, 0, 59, 370.	0.0	1