

# Sudip Samanta

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2402063/publications.pdf>

Version: 2024-02-01

54  
papers

1,385  
citations

331670

21  
h-index

361022

35  
g-index

54  
all docs

54  
docs citations

54  
times ranked

545  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability and Bifurcation Analysis of a Three-Species Food Chain Model with Fear. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1850009.	1.7	127
2	Effect of hunting cooperation and fear in a predator-prey model. Ecological Complexity, 2019, 39, 100770.	2.9	112
3	Effect of awareness programs by media on the epidemic outbreaks: A mathematical model. Applied Mathematics and Computation, 2013, 219, 6965-6977.	2.2	107
4	Awareness programs control infectious disease – Multiple delay induced mathematical model. Applied Mathematics and Computation, 2015, 251, 539-563.	2.2	83
5	Fear effect in prey and hunting cooperation among predators in a Leslie-Gower model. Mathematical Biosciences and Engineering, 2019, 16, 5146-5179.	1.9	61
6	Delay induced multiple stability switch and chaos in a predator-prey model with fear effect. Mathematics and Computers in Simulation, 2020, 172, 134-158.	4.4	56
7	Complex dynamics of an eco-epidemiological model with different competition coefficients and weak Allee in the predator. Chaos, Solitons and Fractals, 2016, 91, 270-285.	5.1	43
8	Optimal harvesting and complex dynamics in a delayed eco-epidemiological model with weak Allee effects. Nonlinear Dynamics, 2017, 87, 1553-1573.	5.2	43
9	A simple SI-type model for HIV/AIDS with media and self-imposed psychological fear. Mathematical Biosciences, 2018, 306, 160-169.	1.9	43
10	A Three Species Food Chain Model with Fear Induced Trophic Cascade. International Journal of Applied and Computational Mathematics, 2019, 5, 1.	1.6	42
11	Stability and Bifurcation Analysis of a Three-Species Food Chain Model with Delay. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550123.	1.7	38
12	A delayed prey-predator system with prey subject to the strong Allee effect and disease. Nonlinear Dynamics, 2016, 84, 1569-1594.	5.2	36
13	Backward bifurcation, oscillations and chaos in an eco-epidemiological model with fear effect. Journal of Biological Dynamics, 2019, 13, 301-327.	1.7	36
14	Revisited Hastings and Powell model with omnivory and predator switching. Chaos, Solitons and Fractals, 2014, 66, 58-73.	5.1	32
15	A delayed eco-epidemiological system with infected prey and predator subject to the weak Allee effect. Mathematical Biosciences, 2015, 263, 198-208.	1.9	31
16	Effect of awareness program in disease outbreak – A slow-fast dynamics. Applied Mathematics and Computation, 2014, 237, 98-109.	2.2	30
17	Impact of fear on an eco-epidemiological model. Chaos, Solitons and Fractals, 2020, 134, 109718.	5.1	29
18	Dynamics of a stage-structured predator-prey model: cost and benefit of fear-induced group defense. Journal of Theoretical Biology, 2021, 528, 110846.	1.7	26

#	ARTICLE	IF	CITATIONS
19	THE ROLE OF ADDITIONAL FOOD IN A PREDATORâ€™PREY MODEL WITH A PREY REFUGE. Journal of Biological Systems, 2016, 24, 345-365.	1.4	24
20	Mathematical modeling of cascading migration in a tri-trophic food-chain system. Journal of Biological Physics, 2013, 39, 469-487.	1.5	22
21	Cannibalistic Predatorâ€™Prey Model with Disease in Predator â€™ A Delay Model. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550130.	1.7	22
22	Chaos in a nonautonomous eco-epidemiological model with delay. Applied Mathematical Modelling, 2020, 79, 865-880.	4.2	21
23	A nonautonomous model for the effect of environmental toxins on plankton dynamics. Nonlinear Dynamics, 2020, 99, 3373-3405.	5.2	21
24	An Eco-Epidemiological Model with Different Competition Coefficients and Strong-Allee in the Prey. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1730027.	1.7	19
25	Effects of awareness program and delay in the epidemic outbreak. Mathematical Methods in the Applied Sciences, 2017, 40, 1679-1695.	2.3	18
26	Study of an eco-epidemiological model with Z-type control. Chaos, Solitons and Fractals, 2018, 113, 197-208.	5.1	18
27	A Model Based Theoretical Study on Cannibalistic Preyâ€™Predator System with Disease in Both Populations. Differential Equations and Dynamical Systems, 2015, 23, 327-370.	1.0	17
28	Effect of Multiple Delays in an Eco-Epidemiological Model with Strong Allee Effect. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750167.	1.7	17
29	The effect of nanoparticles on plankton dynamics: A mathematical model. BioSystems, 2015, 127, 28-41.	2.0	16
30	The Impact of Constant Immigration on a Tri-trophic Food Chain Model. International Journal of Applied and Computational Mathematics, 2017, 3, 3615-3644.	1.6	16
31	Chaos control via feeding switching in an omnivory system. BioSystems, 2015, 138, 18-24.	2.0	15
32	Fear Induced Stabilization in an Intraguild Predation Model. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050053.	1.7	15
33	The impact of diffusive migration on ecosystem stability. Chaos, Solitons and Fractals, 2015, 78, 317-328.	5.1	14
34	EFFECT OF KAIROMONE ON PREDATORâ€™PREY DYNAMICS â€™ A DELAY MODEL. International Journal of Biomathematics, 2013, 06, 1350035.	2.9	13
35	A mathematical study of a crop-pestâ€™natural enemy model with Z-type control. Mathematics and Computers in Simulation, 2021, 187, 468-488.	4.4	13
36	Spatiotemporal dynamics of Leslieâ€™Gower predatorâ€™prey model with Allee effect on both populations. Mathematics and Computers in Simulation, 2022, 200, 32-49.	4.4	11

#	ARTICLE	IF	CITATIONS
37	CONTROL OF DISEASE IN PREY POPULATION BY SUPPLYING ALTERNATIVE FOOD TO PREDATOR. Journal of Biological Systems, 2014, 22, 677-690.	1.4	10
38	A systematic study of autonomous and nonautonomous predator-prey models with combined effects of fear, migration and switching. Nonlinear Dynamics, 2021, 103, 2125-2162.	5.2	10
39	Study of an epidemic model with Z-type control. International Journal of Biomathematics, 2018, 11, 1850084.	2.9	9
40	STUDY OF A PREDATOR-PREY MODEL WITH PEST MANAGEMENT PERSPECTIVE. Journal of Biological Systems, 2019, 27, 309-336.	1.4	9
41	A cannibalistic eco-epidemiological model with disease in predator population. Journal of Applied Mathematics and Computing, 2018, 57, 161-197.	2.5	8
42	Role of Bi-Directional Migration in Two Similar Types of Ecosystems. Mathematics, 2018, 6, 36.	2.2	7
43	Complex Dynamics of a Three-Species Food Chain Model with Fear and Allee Effect. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2022, 32, .	1.7	7
44	Effect of multiple delays on the dynamics of cannibalistic prey-predator system with disease in both populations. International Journal of Biomathematics, 2017, 10, 1750049.	2.9	6
45	Fish kairomones, its benefits and detriments: A model based study both from releaser and acceptor perspective. Ecological Complexity, 2011, 8, 258-264.	2.9	5
46	Existence and global stability of positive periodic solution of tri-trophic food chain with middle predator migratory in nature. Applied Mathematical Modelling, 2015, 39, 4285-4299.	4.2	5
47	Impact of Predator Signals on the Stability of a Predator-Prey System: A Z-Control Approach. Differential Equations and Dynamical Systems, 2022, 30, 451-467.	1.0	4
48	A Mathematical Model for the Effects of Nitrogen and Phosphorus on Algal Blooms. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1950129.	1.7	4
49	EFFECT OF TIME DELAY IN A CANNIBALISTIC STAGE-STRUCTURED PREDATOR-PREY MODEL WITH HARVESTING OF AN ADULT PREDATOR: THE CASE OF LIONFISH. Journal of Biological Systems, 2019, 27, 447-486.	1.4	4
50	Disease control through removal of population using Z-control approach. Physica A: Statistical Mechanics and Its Applications, 2020, 548, 123846.	2.6	4
51	A strategy for a disease-free system- an eco-epidemiological model based study. Journal of Applied Mathematics and Computing, 2017, 55, 563-590.	2.5	3
52	Effects of incubation and gestation periods in a prey-predator model with infection in prey. Mathematics and Computers in Simulation, 2021, 190, 449-473.	4.4	3
53	Chaos Control in a Two Prey and One Predator System with Predator Switching. Advances in Intelligent Systems and Computing, 2018, , 435-441.	0.6	0
54	Dynamics of a discrete-time system with Z-type control. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2020, 75, 609-620.	1.5	0