

Uttam Ghosh

List of Publications by Year in descending order

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52
papers

586
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623574

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213
citing authors

#	ARTICLE	IF	CITATIONS
1	Qualitative Analysis and Optimal Control Strategy of an SIR Model with Saturated Incidence and Treatment. <i>Differential Equations and Dynamical Systems</i> , 2023, 31, 53-67.	0.5	15
2	On optimal harvesting policy for two economically beneficial species mysida and herring: a clue for conservation biologist through mathematical model. <i>International Journal of Modelling and Simulation</i> , 2023, 43, 200-222.	2.3	3
3	Complex dynamics and control analysis of an epidemic model with non-monotone incidence and saturated treatment. <i>International Journal of Dynamics and Control</i> , 2023, 11, 301-323.	1.5	5
4	The Complex Dynamical Behavior of a Prey-Predator Model with Holling Type-III Functional Response and Non-Linear Predator Harvesting. <i>International Journal of Modelling and Simulation</i> , 2022, 42, 287-304.	2.3	19
5	Studies of different types of bifurcations analyses of an imprecise two species food chain model with fear effect and non-linear harvesting. <i>Mathematics and Computers in Simulation</i> , 2022, 192, 111-135.	2.4	26
6	Mathematical modelling of COVID-19: A case study of Italy. <i>Mathematics and Computers in Simulation</i> , 2022, 194, 1-18.	2.4	26
7	Analytic Solution of the Fractional Order Non-linear Schrödinger Equation and the Fractional Order Klein Gordon Equation. <i>Differential Equations and Dynamical Systems</i> , 2022, 30, 499-512.	0.5	2
8	Formulation of Conformable Time Fractional Differential Equation and q-HAM Solution Comparison with ADM. <i>Journal of the Physical Society of Japan</i> , 2022, 91, .	0.7	2
9	Dynamics of SEIR model: A case study of COVID-19 in Italy. <i>Results in Control and Optimization</i> , 2022, 7, 100119.	1.3	14
10	Studies of dynamical behaviours of an imprecise predator-prey model with Holling type II functional response under interval uncertainty. <i>European Physical Journal Plus</i> , 2022, 137, 1.	1.2	8
11	Complex dynamics of a generalist predator-prey model with hunting cooperation in predator. <i>European Physical Journal Plus</i> , 2022, 137, 1.	1.2	18
12	GLOBAL DYNAMICS OF A PREY-PREDATOR MODEL WITH HOLLING TYPE III FUNCTIONAL RESPONSE IN THE PRESENCE OF HARVESTING. <i>Journal of Biological Systems</i> , 2022, 30, 225-260.	0.5	8
13	A systematic study of autonomous and nonautonomous predator-prey models for the combined effects of fear, refuge, cooperation and harvesting. <i>European Physical Journal Plus</i> , 2022, 137, .	1.2	26
14	Stability and bifurcation analysis of a discrete prey-predator model with sigmoid functional response and Allee effect. <i>Rendiconti Del Circolo Matematico Di Palermo</i> , 2021, 70, 253-273.	0.6	11
15	Approximate Solution of Homogeneous and Nonhomogeneous 5 th -Order Space-Time Fractional KdV Equations. <i>International Journal of Computational Methods</i> , 2021, 18, 2050018.	0.8	4
16	Unraveling the combined actions of a Holling type III predator-prey model incorporating Allee response and memory effects. <i>Computational and Mathematical Methods</i> , 2021, 3, e1130.	0.3	6
17	Qualitative analysis and optimal control of an SIR model with logistic growth, non-monotonic incidence and saturated treatment. <i>Mathematical Modelling of Natural Phenomena</i> , 2021, 16, 13.	0.9	8
18	Memory effect on Bazykin's prey-predator model: Stability and bifurcation analysis. <i>Chaos, Solitons and Fractals</i> , 2021, 143, 110531.	2.5	29

#	ARTICLE	IF	CITATIONS
19	Study of Stability and Bifurcation of Three Species Food Chain Model with Non-monotone Functional Response. <i>International Journal of Applied and Computational Mathematics</i> , 2021, 7, 1.	0.9	16
20	Study of SEIR epidemic model and scenario analysis of COVID-19 pandemic. <i>Ecological Genetics and Genomics</i> , 2021, 19, 100087.	0.3	15
21	Global dynamics and control strategies of an epidemic model having logistic growth, non-monotone incidence with the impact of limited hospital beds. <i>Nonlinear Dynamics</i> , 2021, 105, 971-996.	2.7	19
22	Study of Memory Effect in an Inventory Model with Constant Deterioration Rate. <i>Journal of Applied Nonlinear Dynamics</i> , 2021, 10, 229-243.	0.1	5
23	Stability analysis of a three species food chain model with linear functional response via imprecise and parametric approach. <i>Journal of Computational Science</i> , 2021, 54, 101423.	1.5	12
24	Chaotic dynamics of a tri-trophic food chain model with Beddington-DeAngelis functional response in presence of fear effect. <i>Nonlinear Dynamics</i> , 2021, 106, 2621-2653.	2.7	9
25	The Role of Isolation and Vector Control in the Prevention of Dengue: A Case Study of 2014 Dengue Outbreak in Singapore. <i>International Journal of Applied and Computational Mathematics</i> , 2021, 7, 1.	0.9	3
26	Mathematical model of zika virus dynamics with vector control and sensitivity analysis. <i>Infectious Disease Modelling</i> , 2020, 5, 23-41.	1.2	31
27	Global dynamics of a tritrophic food chain model subject to the Allee effects in the prey population with sexually reproductive generalized-type top predator. <i>Computational and Mathematical Methods</i> , 2020, 2, e1079.	0.3	7
28	Study of memory effect in an inventory model for deteriorating items with partial backlogging. <i>Computers and Industrial Engineering</i> , 2020, 148, 106705.	3.4	12
29	BIFURCATION ANALYSIS OF A TWO-DIMENSIONAL PREDATOR-PREY MODEL WITH HOLLING TYPE IV FUNCTIONAL RESPONSE AND NONLINEAR PREDATOR HARVESTING. <i>Journal of Biological Systems</i> , 2020, 28, 839-864.	0.5	12
30	COVID-19 pandemic in India: a mathematical model study. <i>Nonlinear Dynamics</i> , 2020, 102, 537-553.	2.7	60
31	Qualitative Analysis and Optimal Control of a Two-Strain Dengue Model with its Co-infections. <i>International Journal of Applied and Computational Mathematics</i> , 2020, 6, 1.	0.9	6
32	STABILITY AND BIFURCATION ANALYSIS OF A DISCRETE PREY-PREDATOR MODEL WITH SQUARE-ROOT FUNCTIONAL RESPONSE AND OPTIMAL HARVESTING. <i>Journal of Biological Systems</i> , 2020, 28, 91-110.	0.5	28
33	Approximate Solution of Space-Time Fractional KdV Equation and Coupled KdV Equations. <i>Journal of the Physical Society of Japan</i> , 2020, 89, 014002.	0.7	2
34	Analytical study of D-dimensional fractional Klein-Gordon equation with a fractional vector plus a scalar potential. <i>Pramana - Journal of Physics</i> , 2020, 94, 1.	0.9	4
35	Characterization of Geometrical Complexity of the Landscape Patches Using Fractional Dimension. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 119-125.	0.3	1
36	Prediction of Ventricular Hypertrophy of Heart Using Fractional Calculus. <i>Journal of Applied Nonlinear Dynamics</i> , 2020, 9, 287-305.	0.1	1

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37	Higher-dimensional fractional time-independent Schrödinger equation via fractional derivative with generalised pseudoharmonic potential. <i>Pramana - Journal of Physics</i> , 2019, 93, 1.	0.9	9
38	Study of memory effect in an inventory model with quadratic type demand rate and salvage value. <i>Applied Mathematical Sciences</i> , 2019, 13, 209-223.	0.0	8
39	Study of memory effect in an economic order quantity model with quadratic type demand rate. <i>Computational Methods in Science and Technology</i> , 2019, 25, 71-80.	0.3	6
40	Application of Memory Effect in an Inventory Model with Price Dependent Demand Rate during Shortage. <i>International Journal of Education and Management Engineering</i> , 2019, 9, 51-64.	0.8	6
41	Time independent fractional Schrödinger equation for generalized Mie-type potential in higher dimension framed with Jumarie type fractional derivative. <i>Journal of Mathematical Physics</i> , 2018, 59, .	0.5	18
42	Study of memory effects in an inventory model using fractional calculus. <i>Applied Mathematical Sciences</i> , 2018, 12, 797-824.	0.0	13
43	Nonlinear dust-acoustic wave propagation in a Lorentzian dusty plasma in presence of negative ions. <i>Journal of Plasma Physics</i> , 2018, 84, .	0.7	3
44	Stability and bifurcation analysis of a ratio dependent discrete prey-predator model with linear harvesting. , 2018, , .		3
45	Application of fractional calculus to distinguish left ventricular hypertrophy with normal ECG. , 2018, , .		3
46	Fractional Klein-Gordon equation composed of Jumarie fractional derivative and its interpretation by a smoothness parameter. <i>Pramana - Journal of Physics</i> , 2018, 90, 1.	0.9	7
47	Effect of secondary electron emission on nonlinear dust acoustic wave propagation in a complex plasma with negative equilibrium dust charge. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	5
48	A study of fractional Schrödinger equation composed of Jumarie fractional derivative. <i>Pramana - Journal of Physics</i> , 2017, 88, 1.	0.9	22
49	SIR Epidemic Modelling in Presence of Inhibitory Effect and Delay. <i>Springer Proceedings in Mathematics and Statistics</i> , 2015, , 227-235.	0.1	0
50	Fractional Weierstrass Function by Application of Jumarie Fractional Trigonometric Functions and Its Analysis. <i>Advances in Pure Mathematics</i> , 2015, 05, 717-732.	0.1	6
51	Time Fractional Telegraph Equation and Its Solution by Laplace Transform Method. <i>Asian-European Journal of Mathematics</i> , 0, , .	0.2	0
52	Complex dynamics of a prey-predator interaction model with Holling type-II functional response incorporating the effect of fear on prey and non-linear predator harvesting. <i>Rendiconti Del Circolo Matematico Di Palermo</i> , 0, , 1.	0.6	1