

# Uttam Ghosh

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

586  
citations

623574

14  
h-index

752573

20  
g-index

54  
all docs

54  
docs citations

54  
times ranked

213  
citing authors

#	ARTICLE	IF	CITATIONS
1	COVID-19 pandemic in India: a mathematical model study. <i>Nonlinear Dynamics</i> , 2020, 102, 537-553.	2.7	60
2	Mathematical model of zika virus dynamics with vector control and sensitivity analysis. <i>Infectious Disease Modelling</i> , 2020, 5, 23-41.	1.2	31
3	Memory effect on Bazykin's prey-predator model: Stability and bifurcation analysis. <i>Chaos, Solitons and Fractals</i> , 2021, 143, 110531.	2.5	29
4	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
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	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
8	A study of fractional Schrödinger equation composed of Jumarie fractional derivative. <i>Pramana - Journal of Physics</i> , 2017, 88, 1.	0.9	22
9	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
10	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
11	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
12	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
13	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
14	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
15	Study of SEIR epidemic model and scenario analysis of COVID-19 pandemic. <i>Ecological Genetics and Genomics</i> , 2021, 19, 100087.	0.3	15
16	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
17	Study of memory effects in an inventory model using fractional calculus. <i>Applied Mathematical Sciences</i> , 2018, 12, 797-824.	0.0	13
18	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

#	ARTICLE	IF	CITATIONS
19	BIFURCATION ANALYSIS OF A TWO-DIMENSIONAL PREDATORâ€“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
20	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
21	Stability and bifurcation analysis of a discrete preyâ€“predator model with sigmoid functional response and Allee effect. <i>Rendiconti Del Circolo Matematico Di Palermo</i> , 2021, 70, 253-273.	0.6	11
22	Higher-dimensional fractional time-independent SchrÃ¶dinger equation via fractional derivative with generalised pseudoharmonic potential. <i>Pramana - Journal of Physics</i> , 2019, 93, 1.	0.9	9
23	Chaotic dynamics of a tri-topic food chain model with Beddingtonâ€“DeAngelis functional response in presence of fear effect. <i>Nonlinear Dynamics</i> , 2021, 106, 2621-2653.	2.7	9
24	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
25	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
26	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
27	GLOBAL DYNAMICS OF A PREYâ€“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
28	Fractional Kleinâ€“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
29	Global dynamics of a tritrophic food chain model subject to the Allee effects in the prey population with sexually reproductive generalizedâ€“type top predator. <i>Computational and Mathematical Methods</i> , 2020, 2, e1079.	0.3	7
30	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
31	Unraveling the combined actions of a Holling type III predatorâ€“prey model incorporating Allee response and memory effects. <i>Computational and Mathematical Methods</i> , 2021, 3, e1130.	0.3	6
32	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
33	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
34	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
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	Approximate Solution of Homogeneous and Nonhomogeneous 5 <sup>th</sup> -Order Space-Time Fractional KdV Equations. <i>International Journal of Computational Methods</i> , 2021, 18, 2050018.	0.8	4
40	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
41	Stability and bifurcation analysis of a ratio dependent discrete prey-predator model with linear harvesting. , 2018, , .		3
42	Application of fractional calculus to distinguish left ventricular hypertrophy with normal ECG. , 2018, , .		3
43	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
44	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
45	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
46	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
47	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
48	Characterization of Geometrical Complexity of the Landscape Patches Using Fractional Dimension. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 119-125.	0.3	1
49	Prediction of Ventricular Hypertrophy of Heart Using Fractional Calculus. <i>Journal of Applied Nonlinear Dynamics</i> , 2020, 9, 287-305.	0.1	1
50	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
51	SIR Epidemic Modelling in Presence of Inhibitory Effect and Delay. <i>Springer Proceedings in Mathematics and Statistics</i> , 2015, , 227-235.	0.1	0
52	Time Fractional Telegraph Equation and Its Solution by Laplace Transform Method. <i>Asian-European Journal of Mathematics</i> , 0, , .	0.2	0