

Pushpendra Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,319
citations

394421

19
h-index

377865

34
g-index

46
all docs

46
docs citations

46
times ranked

437
citing authors

#	ARTICLE	IF	CITATIONS
1	A new study of unreported cases of 2019-nCoV epidemic outbreaks. <i>Chaos, Solitons and Fractals</i> , 2020, 138, 109929.	5.1	176
2	Novel Fractional-Order Lagrangian to Describe Motion of Beam on Nanowire. <i>Acta Physica Polonica A</i> , 2021, 140, 265-272.	0.5	104
3	Solution of a COVID-19 model via new generalized Caputo-type fractional derivatives. <i>Chaos, Solitons and Fractals</i> , 2020, 139, 110280.	5.1	89
4	Forecasting of COVID-19 pandemic: From integer derivatives to fractional derivatives. <i>Chaos, Solitons and Fractals</i> , 2020, 141, 110283.	5.1	84
5	Projections and fractional dynamics of COVID-19 with optimal control strategies. <i>Chaos, Solitons and Fractals</i> , 2021, 145, 110689.	5.1	59
6	A new fractional mathematical modelling of COVID-19 with the availability of vaccine. <i>Results in Physics</i> , 2021, 24, 104213.	4.1	56
7	Environmental persistence influences infection dynamics for a butterfly pathogen via new generalised Caputo type fractional derivative. <i>Chaos, Solitons and Fractals</i> , 2021, 144, 110672.	5.1	55
8	The analysis of a time delay fractional COVID-19 model via Caputo type fractional derivative. <i>Mathematical Methods in the Applied Sciences</i> , 2023, 46, 7618-7631.	2.3	49
9	Prediction studies of the epidemic peak of coronavirus disease in Brazil via new generalised Caputo type fractional derivatives. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 3189-3204.	6.4	47
10	Mathematical structure of mosaic disease using microbial biostimulants via Caputo and Atangana-Baleanu derivatives. <i>Results in Physics</i> , 2021, 24, 104186.	4.1	37
11	A mathematical study of a tuberculosis model with fractional derivatives. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2021, 12, 2150037.	1.4	36
12	A complex fractional mathematical modeling for the love story of Layla and Majnun. <i>Chaos, Solitons and Fractals</i> , 2021, 150, 111091.	5.1	35
13	Dynamics of generalized Caputo type delay fractional differential equations using a modified Predictor-Corrector scheme. <i>Physica Scripta</i> , 2021, 96, 125213.	2.5	34
14	Fractional time-delay mathematical modeling of Oncolytic Virotherapy. <i>Chaos, Solitons and Fractals</i> , 2021, 150, 111123.	5.1	33
15	An optimal control problem for mosaic disease via Caputo fractional derivative. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 8027-8037.	6.4	29
16	A new study on two different vaccinated fractional-order COVID-19 models via numerical algorithms. <i>Journal of King Saud University - Science</i> , 2022, 34, 101914.	3.5	29
17	A malaria model with Caputo-Fabrizio and Atangana-Baleanu derivatives. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2021, 12, 2150013.	1.4	28
18	Some novel mathematical analysis on a corneal shape model by using Caputo fractional derivative. <i>Optik</i> , 2022, 261, 169086.	2.9	26

#	ARTICLE	IF	CITATIONS
19	A delayed plant disease model with Caputo fractional derivatives. , 2022, 2022, 11.		24
20	A study on canine distemper virus (CDV) and rabies epidemics in the red fox population via fractional derivatives. Results in Physics, 2021, 25, 104281.	4.1	21
21	A study on the maize streak virus epidemic model by using optimized linearization-based predictor-corrector method in Caputo sense. Chaos, Solitons and Fractals, 2022, 158, 112067.	5.1	20
22	Fractional modeling of plankton-oxygen dynamics under climate change by the application of a recent numerical algorithm. Physica Scripta, 2021, 96, 124044.	2.5	18
23	A case study of Covid-19 epidemic in India via new generalised Caputo type fractional derivatives. Mathematical Methods in the Applied Sciences, 2023, 46, 7930-7943.	2.3	16
24	Fractional dynamics of huanglongbing transmission within a citrus tree. Mathematical Methods in the Applied Sciences, 2021, 44, 11404-11424.	2.3	16
25	Stability and bifurcation analysis of a fractional-order model of cell-to-cell spread of HIV-1 with a discrete time delay. Mathematical Methods in the Applied Sciences, 2022, 45, 7081-7095.	2.3	16
26	Analytic Solution for the Strongly Nonlinear Multi-Order Fractional Version of a BVP Occurring in Chemical Reactor Theory. Discrete Dynamics in Nature and Society, 2022, 2022, 1-9.	0.9	15
27	Fractional dynamics of 2019-nCoV in Spain at different transmission rate with an idea of optimal control problem formulation. AEJ - Alexandria Engineering Journal, 2022, 61, 2204-2219.	6.4	14
28	A case study of 2019-nCoV cases in Argentina with the real data based on daily cases from March 03, 2020 to March 29, 2021 using classical and fractional derivatives. Advances in Difference Equations, 2021, 2021, 341.	3.5	14
29	Dynamics of cholera disease by using two recent fractional numerical methods. Aletim, Sosyoloji Ve Tarih Arařtarmalar Dergisi, 2021, 1, 102-111.	1.8	13
30	An Implementation of the Generalized Differential Transform Scheme for Simulating Impulsive Fractional Differential Equations. Mathematical Problems in Engineering, 2022, 2022, 1-11.	1.1	13
31	A study on the dynamics of alkali-silica chemical reaction by using Caputo fractional derivative. Pramana - Journal of Physics, 2022, 96, .	1.5	12
32	Lassa hemorrhagic fever model using new generalized Caputo-type fractional derivative operator. International Journal of Modeling, Simulation, and Scientific Computing, 2021, 12, 2150055.	1.4	10
33	Some novel mathematical results on the existence and uniqueness of generalized Caputo-type initial value problems with delay. AIMS Mathematics, 2022, 7, 10483-10494.	1.6	10
34	Existence and stability results for nonlocal boundary value problems of fractional order. Boundary Value Problems, 2022, 2022, .	0.7	10
35	A Study on the 3D Hopfield Neural Network Model via Nonlocal Atangana-Baleanu Operators. Complexity, 2022, 2022, 1-13.	1.6	10
36	Role of vaccination, the release of competitor snails, chlorination of water, and treatment controls on the transmission of bovine schistosomiasis disease: a mathematical study. Physica Scripta, 2022, 97, 074006.	2.5	9

#	ARTICLE	IF	CITATIONS
37	A novel mathematical model to describe the transmission dynamics of tooth cavity in the human population. <i>Chaos, Solitons and Fractals</i> , 2022, 161, 112370.	5.1	9
38	On the existence and uniqueness of a nonlinear q -difference boundary value problem of fractional order. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2022, 13, .	1.4	7
39	A fractional mathematical modeling of protectant and curative fungicide application. <i>Chaos, Solitons and Fractals: X</i> , 2022, 8, 100071.	2.1	7
40	Generalized forms of fractional Euler and Rungeâ€“Kutta methods using non-uniform grid. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2023, 24, 2089-2111.	1.0	7
41	Prediction studies of the epidemic peak of coronavirus disease in Japan: From Caputo derivatives to Atanganaâ€“Baleanu derivatives. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2022, 13, .	1.4	6
42	Some novel analysis of two different Caputo-type fractional-order boundary value problems. <i>Results in Nonlinear Analysis</i> , 2022, 5, 299-311.	0.8	5
43	Effects of greenhouse gases and hypoxia on the population of aquatic species: a fractional mathematical model. , 2022, 2022, 31.		4
44	A stochastic SIR model for analysis of testosterone suppression of CRH-stimulated cortisol in men. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 0, , .	1.4	3
45	Dynamics of COVID-19 epidemic via two different fractional derivatives. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2023, 14, .	1.4	3