Pushpendra Kumar

List of Publications by Year
in descending order

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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	The analysis of a time delay fractional COVIDâ€19 model via Caputo type fractional derivative. Mathematical Methods in the Applied Sciences, 2023, 46, 7618-7631.	2.3	49
2	A case study of Covidâ€19 epidemic in India via new generalised Caputo type fractional derivatives. Mathematical Methods in the Applied Sciences, 2023, 46, 7930-7943.	2.3	16
3	Dynamics of COVID-19 epidemic via two different fractional derivatives. International Journal of Modeling, Simulation, and Scientific Computing, 2023, 14, .	1.4	3
4	Generalized forms of fractional Euler and Rungeâ€“Kutta methods using non-uniform grid. International Journal of Nonlinear Sciences and Numerical Simulation, 2023, 24, 2089-2111.	1.0	7
5	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
6	On the existence and uniqueness of a nonlinear q-difference boundary value problem of fractional order. International Journal of Modeling, Simulation, and Scientific Computing, 2022, 13, .	1.4	7
7	Prediction studies of the epidemic peak of coronavirus disease in Japan: From Caputo derivatives to Atanganaâ€“Baleanu derivatives. International Journal of Modeling, Simulation, and Scientific Computing, 2022, 13, .	1.4	6
8	A delayed plant disease model with Caputo fractional derivatives. , 2022, 2022, 11.		24
9	An optimal control problem for mosaic disease via Caputo fractional derivative. AEJ - Alexandria Engineering Journal, 2022, 61, 8027-8037.	6.4	29
10	A fractional mathematical modeling of protectant and curative fungicide application. Chaos, Solitons and Fractals: X, 2022, 8, 100071.	2.1	7
11	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
12	Stability and bifurcation analysis of a fractionalâ€order model of cellâ€toâ€cell spread of HIVâ€1 with a discrete time delay. Mathematical Methods in the Applied Sciences, 2022, 45, 7081-7095.	2.3	16
13	A new study on two different vaccinated fractional-order COVID-19 models via numerical algorithms. Journal of King Saud University - Science, 2022, 34, 101914.	3.5	29
14	Effects of greenhouse gases and hypoxia on the population of aquatic species: a fractional mathematical model. , 2022, 2022, 31.		4
15	Existence and stability results for nonlocal boundary value problems of fractional order. Boundary Value Problems, 2022, 2022, .	0.7	10
16	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
17	Some novel mathematical analysis on a corneal shape model by using Caputo fractional derivative. Optik, 2022, 261, 169086.	2.9	26
18	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

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19	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
20	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
21	A study on the dynamics of alkaliâ€“silica chemical reaction by using Caputo fractional derivative. Pramana - Journal of Physics, 2022, 96, .	1.5	12
22	Some novel analysis of two different Caputo-type fractional-order boundary value problems. Results in Nonlinear Analysis, 2022, 5, 299-311.	0.8	5
23	A Study on the 3D Hopfield Neural Network Model via Nonlocal Atanganaâ€“Baleanu Operators. Complexity, 2022, 2022, 1-13.	1.6	10
24	A novel mathematical model to describe the transmission dynamics of tooth cavity in the human population. Chaos, Solitons and Fractals, 2022, 161, 112370.	5.1	9
25	Environmental persistence influences infection dynamics for a butterfly pathogen via new generalised Caputo type fractional derivative. Chaos, Solitons and Fractals, 2021, 144, 110672.	5.1	55
26	A mathematical study of a tuberculosis model with fractional derivatives. International Journal of Modeling, Simulation, and Scientific Computing, 2021, 12, 2150037.	1.4	36
27	Projections and fractional dynamics of COVID-19 with optimal control strategies. Chaos, Solitons and Fractals, 2021, 145, 110689.	5.1	59
28	Fractional dynamics of huanglongbing transmission within a citrus tree. Mathematical Methods in the Applied Sciences, 2021, 44, 11404-11424.	2.3	16
29	Mathematical structure of mosaic disease using microbial biostimulants via Caputo and Atanganaâ€“Baleanu derivatives. Results in Physics, 2021, 24, 104186.	4.1	37
30	A new fractional mathematical modelling of COVID-19 with the availability of vaccine. Results in Physics, 2021, 24, 104213.	4.1	56
31	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
32	Prediction studies of the epidemic peak of coronavirus disease in Brazil via new generalised Caputo type fractional derivatives. AEJ - Alexandria Engineering Journal, 2021, 60, 3189-3204.	6.4	47
33	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
34	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
35	Fractional time-delay mathematical modeling of Oncolytic Virotherapy. Chaos, Solitons and Fractals, 2021, 150, 111123.	5.1	33
36	Dynamics of generalized Caputo type delay fractional differential equations using a modified Predictor-Corrector scheme. Physica Scripta, 2021, 96, 125213.	2.5	34

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37	A complex fractional mathematical modeling for the love story of Layla and Majnun. Chaos, Solitons and Fractals, 2021, 150, 111091.	5.1	35
38	A malaria model with Caputoâ€“Fabrizio and Atanganaâ€“Baleanu derivatives. International Journal of Modeling, Simulation, and Scientific Computing, 2021, 12, 2150013.	1.4	28
39	Novel Fractional-Order Lagrangian to Describe Motion of Beam on Nanowire. Acta Physica Polonica A, 2021, 140, 265-272.	0.5	104
40	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
41	Dynamics of cholera disease by using two recent fractional numerical methods. Ä°letiÅŸim, Sosyoloji Ve Tarih AraÅŸtÄ±rmalarÄ± Dergisi:, 2021, 1, 102-111.	1.8	13
42	Solution of a COVID-19 model via new generalized Caputo-type fractional derivatives. Chaos, Solitons and Fractals, 2020, 139, 110280.	5.1	89
43	Forecasting of COVID-19 pandemic: From integer derivatives to fractional derivatives. Chaos, Solitons and Fractals, 2020, 141, 110283.	5.1	84
44	A new study of unreported cases of 2019-nCOV epidemic outbreaks. Chaos, Solitons and Fractals, 2020, 138, 109929.	5.1	176
45	A stochastic SIR model for analysis of testosterone suppression of CRH-stimulated cortisol in men. International Journal of Modeling, Simulation, and Scientific Computing, 0, , .	1.4	3