Muhammad Farman

List of Publications by Year
in descending order

47 papers	721 citations	516710 16 h-index	610901 24 g-index
47 all docs	47 docs citations	47 times ranked	262 citing authors

#	Article	IF	Citations
1	Generalization method of generating the continuous nested distributions. International Journal of Nonlinear Sciences and Numerical Simulation, 2023, 24, 1327-1353.	1.0	2
2	Unsteady MHD flow of Maxwell fluid with Caputoâ€“Fabrizio non-integer derivative model having slip/non-slip fluid flow and Newtonian heating at the boundary. Indian Journal of Physics, 2022, 96, 127-136.	1.8	12
3	Controllability of PDEs model for type 1 diabetes. Mathematical Methods in the Applied Sciences, 2022, 45, 8800-8808.	2.3	4
4	Variation in electronic and optical responses due to phase transformation of SrZrO3 from cubic to orthorhombic under high pressure: a computational insight. Indian Journal of Physics, 2022, 96, 1-9.	1.8	10
5	Modeling and analysis of fractional order Ebola virus model with Mittag-Leffler kernel. AEJ - Alexandria Engineering Journal, 2022, 61, 2062-2073.	6.4	28
6	Effect of vaccination to control COVID-19 with fractal fractional operator. AEJ - Alexandria Engineering Journal, 2022, 61, 3551-3557.	6.4	22
7	Fractional order COVID-19 model with transmission rout infected through environment. AIMS Mathematics, 2022, 7, 5156-5174.	1.6	14
8	Fractional order model for complex Layla and Majnun love story with chaotic behaviour. AEJ - Alexandria Engineering Journal, 2022, 61, 6725-6738.	6.4	17
9	Analysis of dengue transmission using fractional order scheme. AIMS Mathematics, 2022, 7, 8408-8429.	1.6	15
10	Analysis of COVID-19 epidemic model with sumudu transform. AIMS Public Health, 2022, 9, 316-330.	2.6	1
11	Dynamical behavior of tumor-immune system with fractal-fractional operator. AIMS Mathematics, 2022, 7, 8751-8773.	1.6	12
12	Effect of Sc and Zn doping on structure and electro-optical behavior in c-BiAlO3: A DFT trial. Materials Science in Semiconductor Processing, 2022, 146, 106633.	4.0	5
13	On Solutions of the Stiff Differential Equations in Chemistry Kinetics with Fractal-Fractional Derivatives. Journal of Computational and Nonlinear Dynamics, 2022, , .	1.2	5
14	Fractal fractional-order derivative for HIV/AIDS model with Mittag-Leffler kernel. AEJ - Alexandria Engineering Journal, 2022, 61, 10965-10980.	6.4	49
15	Analysis of HIV/AIDS model with Mittag-Leffler kernel. AIMS Mathematics, 2022, 7, 13383-13401.	1.6	6
16	Analysis and Simulation of Fractional Order Smoking Epidemic Model. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-16.	1.3	10
17	Fractalâ€“fractional operator for COVID-19 (Omicron) variant outbreak with analysis and modeling. Results in Physics, 2022, 39, 105630.	4.1	16
18	Lyapunov stability and wave analysis of Covid-19 omicron variant of real data with fractional operator. AEJ - Alexandria Engineering Journal, 2022, 61, 11787-11802.	6.4	38

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19	Modeling and analysis fractal order cancer model with effects of chemotherapy. Chaos, Solitons and Fractals, 2022, 161, 112325.	5.1	18
20	Computational analysis of COVID-19 model outbreak with singular and nonlocal operator. AIMS Mathematics, 2022, 7, 16741-16759.	1.6	3
21	Modeling and numerical investigation of fractionalâ€order bovine babesiosis disease. Numerical Methods for Partial Differential Equations, 2021, 37, 1946-1964.	3.6	20
22	Evolutionary simplex adaptive Hooke-Jeeves algorithm for economic load dispatch problem considering valve point loading effects. Ain Shams Engineering Journal, 2021, 12, 1001-1015.	6.1	24
23	Discretization of the method of generating an expanded family of distributions based upon truncated distributions. Thermal Science, 2021, 25, 19-30.	1.1	1
24	Modeling and simulation of fractional order COVIDâ€19 model with quarantinedâ€isolated people. Mathematical Methods in the Applied Sciences, 2021, 44, 6389-6405.	2.3	13
25	Dynamical Transmission of Coronavirus Model with Analysis and Simulation. CMES - Computer Modeling in Engineering and Sciences, 2021, 127, 753-769.	1.1	9
26	Epidemiological Analysis of the Coronavirus Disease Outbreak with Random Effects. Computers, Materials and Continua, 2021, 67, 3215-3227.	1.9	11
27	Modeling of fractionalâ€order COVIDâ€19 epidemic model with quarantine and social distancing. Mathematical Methods in the Applied Sciences, 2021, 44, 9334-9350.	2.3	23
28	Generalized form of fractional order COVIDâ€19 model with Mittagâ€“Leffler kernel. Mathematical Methods in the Applied Sciences, 2021, 44, 8598-8614.	2.3	7
29	Modeling and simulation of glucose insulin glucagon algorithm for artificial pancreas to control the diabetes mellitus. Network Modeling Analysis in Health Informatics and Bioinformatics, 2021, 10, 1.	2.1	9
30	Fractal fractional derivative on chemistry kinetics hires problem. AIMS Mathematics, 2021, 7, 1155-1184.	1.6	0
31	Bacillus Calmette Guerin (BCG) Immunotherapy for Bladder Cancer: A Control and Mathematical Analysis. International Journal of Applied and Computational Mathematics, 2021, 7, 1.	1.6	1
32	Numerical treatment of a nonlinear dynamical Hepatitis-B model: an evolutionary approach. European Physical Journal Plus, 2020, 135, 1.	2.6	10
33	Dynamical behaviour of fractional-order finance system. Pramana - Journal of Physics, 2020, 94, 1.	1.8	8
34	A control of glucose level in insulin therapies for the development of artificial pancreas by Atangana Baleanu derivative. AEJ - Alexandria Engineering Journal, 2020, 59, 2639-2648.	6.4	34
35	Analysis of Fractional Order Chaotic Financial Model with Minimum Interest Rate Impact. Fractal and Fractional, 2020, 4, 43.	3.3	26
36	A mathematical analysis and simulation for Zika virus model with time fractional derivative. Mathematical Methods in the Applied Sciences, 2020, , .	2.3	2

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37	A Caputo Fabrizio fractional order model for control of glucose in insulin therapies for diabetes. Ain Shams Engineering Journal, 2020, 11, 1309-1316.	6.1	40
38	Treatment of HIV/AIDS epidemic model with vertical transmission by using evolutionary PadÃ©-approximation. Chaos, Solitons and Fractals, 2020, 134, 109686.	5.1	14
39	Analysis and dynamical behavior of fractionalâ€order cancer model with vaccine strategy. Mathematical Methods in the Applied Sciences, 2020, 43, 4871.	2.3	21
40	Mathematical analysis and numerical simulation of co-infection of TB-HIV. Arab Journal of Basic and Applied Sciences, 2020, 27, 431-441.	2.1	6
41	Analysis and Simulation of Fractional-Order Diabetes Model. Advances in the Theory of Nonlinear Analysis and Its Applications, 2020, 4, 483-497.	0.7	2
42	A review on perovskite lanthanum aluminate (LaAlO₃), its properties and applications. Materials Research Express, 2019, 6, 112001.	1.6	32
43	A linear control of composite model for glucose insulin glucagon pump. Ain Shams Engineering Journal, 2019, 10, 867-872.	6.1	20
44	Stability analysis and control of the glucose insulin glucagon system in humans. Chinese Journal of Physics, 2018, 56, 1362-1369.	3.9	16
45	Analysis and numerical solution of SEIR epidemic model of measles with non-integer time fractional derivatives by using Laplace Adomian Decomposition Method. Ain Shams Engineering Journal, 2018, 9, 3391-3397.	6.1	57
46	Controllability and observability of glucose insulin glucagon system in humans. Chinese Journal of Physics, 2018, 56, 1909-1916.	3.9	11
47	Control of an artificial human pancreas. Chinese Journal of Physics, 2017, 55, 2273-2282.	3.9	17