Asif Ali Shaikh

List of Publications by Year
in descending order

39 papers	2,088 citations	279798 23 h-index	330143 37 g-index
40 all docs	40 docs citations	40 times ranked	923 citing authors

#	Article	IF	Citations
1	On the numerical study of fractional and non-fractional model of nonlinear Duffing oscillator: a comparison of integer and non-integer order approaches. International Journal of Modelling and Simulation, 2023, 43, 362-375.	3.3	10
2	Some Novel Fractional Integral Inequalities over a New Class of Generalized Convex Function. Fractal and Fractional, 2022, 6, 42.	3.3	20
3	Fractional Modeling for Improving Scholastic Performance of Students with Optimal Control. International Journal of Applied and Computational Mathematics, 2022, 8, 1.	1.6	28
4	Development of a New Multi-step Iteration Scheme for Solving Non-Linear Models with Complex Polynomiography. Complexity, 2022, 2022, 1-15.	1.6	1
5	Analytical Solution of Slow Squeeze Flow of Slightly Viscoelastic Fluid Film between Two Circular Disks Using Recursive Approach. Mathematical Problems in Engineering, 2022, 2022, 1-17.	1.1	3
6	Analysis of series RL and RC circuits with time-invariant source using truncated M, Atangana beta and conformable derivatives. Journal of Ocean Engineering and Science, 2021, 6, 217-227.	4.3	38
7	Assessing the role of quarantine and isolation as control strategies for COVID-19 outbreak: A case study. Chaos, Solitons and Fractals, 2021, 144, 110655.	5.1	78
8	A new mathematical model of COVID-19 using real data from Pakistan. Results in Physics, 2021, 24, 104098.	4.1	82
9	Fractional numerical dynamics for the logistic population growth model under Conformable Caputo: a case study with real observations. Physica Scripta, 2021, 96, 114002.	2.5	29
10	Adaptive step-size approach for Simpson's-type block methods with time efficiency and order stars. Computational and Applied Mathematics, 2021, 40, 1.	2.2	14
11	A New Nonlinear Ninth-Order Root-Finding Method with Error Analysis and Basins of Attraction. Mathematics, 2021, 9, 1996.	2.2	7
12	New Integral Inequalities via Generalized Preinvex Functions. Axioms, 2021, 10, 296.	1.9	5
13	A New Three-Step Root-Finding Numerical Method and Its Fractal Global Behavior. Fractal and Fractional, 2021, 5, 204.	3.3	12
14	A new family of $?\hat{a}$ acceptable nonlinear methods with fixed and variable stepsize approach. Computational and Mathematical Methods, 2021, 3, e1213.	0.8	6
15	Fractional modeling for a chemical kinetic reaction in a batch reactor via nonlocal operator with power law kernel. Physica A: Statistical Mechanics and Its Applications, 2020, 542, 123494.	2.6	22
16	Mathematical analysis for an autonomous financial dynamical system via classical and modern fractional operators. Chaos, Solitons and Fractals, 2020, 132, 109552.	5.1	32
17	Deterministic modeling of dysentery diarrhea epidemic under fractional Caputo differential operator via real statistical analysis. Chaos, Solitons and Fractals, 2020, 131, 109536.	5.1	18
18	Modeling and analysis of COVID-19 epidemics with treatment in fractional derivatives using real data from Pakistan. European Physical Journal Plus, 2020, 135, 795.	2.6	191

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19	Fractional modeling for the spread of Hookworm infection under Caputo operator. Chaos, Solitons and Fractals, 2020, 137, 109878.	5.1	29
20	Effects of vaccination on measles dynamics under fractional conformable derivative with Liouvilleâ€"Caputo operator. European Physical Journal Plus, 2020, 135, 1.	2.6	37
21	Mathematical analysis for a new nonlinear measles epidemiological system using real incidence data from Pakistan. European Physical Journal Plus, 2020, 135, 378.	2.6	32
22	Mathematical modeling for adsorption process of dye removal nonlinear equation using power law and exponentially decaying kernels. Chaos, 2020, 30, 043106.	2.5	35
23	Fractal-fractional differentiation for the modeling and mathematical analysis of nonlinear diarrhea transmission dynamics under the use of real data. Chaos, Solitons and Fractals, 2020, 136, 109812.	5.1	99
24	Mathematical and numerical optimality of non-singular fractional approaches on free and forced linear oscillator. Nonlinear Engineering, 2020, 9, 449-456.	2.7	12
25	Transmission dynamics of varicella zoster virus modeled by classical and novel fractional operators using real statistical data. Physica A: Statistical Mechanics and Its Applications, 2019, 534, 122149.	2.6	50
26	Strange chaotic attractors under fractal-fractional operators using newly proposed numerical methods. European Physical Journal Plus, 2019, 134, 1.	2.6	56
27	Fractional modeling of blood ethanol concentration system with real data application. Chaos, 2019, 29, 013143.	2.5	162
28	Mathematical modeling for the impacts of deforestation on wildlife species using Caputo differential operator. Chaos, Solitons and Fractals, 2019, 126, 32-40.	5.1	60
29	New Numerical Aspects of Caputo-Fabrizio Fractional Derivative Operator. Mathematics, 2019, 7, 374.	2.2	58
30	Modeling attractors of chaotic dynamical systems with fractalâ€"fractional operators. Chaos, Solitons and Fractals, 2019, 123, 320-337.	5.1	276
31	Mathematical analysis of dengue fever outbreak by novel fractional operators with field data. Physica A: Statistical Mechanics and Its Applications, 2019, 526, 121127.	2.6	129
32	Fractional derivatives applied to MSEIR problems: Comparative study with real world data. European Physical Journal Plus, 2019, 134, 1.	2.6	110
33	Modeling chickenpox disease with fractional derivatives: From caputo to atangana-baleanu. Chaos, Solitons and Fractals, 2019, 122, 111-118.	5.1	161
34	A Fractional Measles Model Having Monotonic Real Statistical Data for Constant Transmission Rate of the Disease. Fractal and Fractional, 2019, 3, 53.	3.3	23
35	Two-strain epidemic model involving fractional derivative with Mittag-Leffler kernel. Chaos, 2018, 28, 123121.	2.5	99
36	L-stable Explicit Nonlinear Method with Constant and Variable Step-size Formulation for Solving Initial Value Problems. International Journal of Nonlinear Sciences and Numerical Simulation, 2018, 19, 741-751.	1.0	38

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37	A new second order open iterated method without second derivative for solving nonlinear equations. , 2018, , .		0
38	DEVELOPMENT OF A NONLINEAR HYBRID NUMERICAL METHOD. Advances in Differential Equations and Control Processes, 2018, 19, 275-285.	0.2	14
39	Some integral inequalities via new family of preinvex functions. İletişim, Sosyoloji Ve Tarih Araştırmaları Dergisi:, 0, , .	1.8	1