# Asif Ali Shaikh

List of Publications by Year
in descending order

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

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 1 | Modeling attractors of chaotic dynamical systems with fractal–fractional operators. Chaos, Solitons and Fractals, 2019, 123, 320-337. | 5.1 | 276 |
| 2 | 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 |
| 3 | Fractional modeling of blood ethanol concentration system with real data application. Chaos, 2019, 29, 013143. | 2.5 | 162 |
| 4 | Modeling chickenpox disease with fractional derivatives: From caputo to atangana-baleanu. Chaos, Solitons and Fractals, 2019, 122, 111-118. | 5.1 | 161 |
| 5 | 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 |
| 6 | Fractional derivatives applied to MSEIR problems: Comparative study with real world data. European Physical Journal Plus, 2019, 134, 1. | 2.6 | 110 |
| 7 | Two-strain epidemic model involving fractional derivative with Mittag-Leffler kernel. Chaos, 2018, 28, 123121. | 2.5 | 99 |
| 8 | 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 |
| 9 | A new mathematical model of COVID-19 using real data from Pakistan. Results in Physics, 2021, 24, 104098. | 4.1 | 82 |
| 10 | 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 |
| 11 | 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 |
| 12 | New Numerical Aspects of Caputo-Fabrizio Fractional Derivative Operator. Mathematics, 2019, 7, 374. | 2.2 | 58 |
| 13 | Strange chaotic attractors under fractal-fractional operators using newly proposed numerical methods. European Physical Journal Plus, 2019, 134, 1. | 2.6 | 56 |
| 14 | 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 |
| 15 | *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 |
| 16 | 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 |
| 17 | Effects of vaccination on measles dynamics under fractional conformable derivative with Liouville–Caputo operator. European Physical Journal Plus, 2020, 135, 1. | 2.6 | 37 |
| 18 | Mathematical modeling for adsorption process of dye removal nonlinear equation using power law and exponentially decaying kernels. Chaos, 2020, 30, 043106. | 2.5 | 35 |

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|---|---------|----|-----------|
| 19 | Mathematical analysis for an autonomous financial dynamical system via classical and modern fractional operators. Chaos, Solitons and Fractals, 2020, 132, 109552. | 5.1 | 32 |
| 20 | 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 |
| 21 | Fractional modeling for the spread of Hookworm infection under Caputo operator. Chaos, Solitons and Fractals, 2020, 137, 109878. | 5.1 | 29 |
| 22 | 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 |
| 23 | Fractional Modeling for Improving Scholastic Performance of Students with Optimal Control. International Journal of Applied and Computational Mathematics, 2022, 8, 1. | 1.6 | 28 |
| 24 | 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 |
| 25 | 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 |
| 26 | Some Novel Fractional Integral Inequalities over a New Class of Generalized Convex Function. Fractal and Fractional, 2022, 6, 42. | 3.3 | 20 |
| 27 | 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 |
| 28 | 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 |
| 29 | DEVELOPMENT OF A NONLINEAR HYBRID NUMERICAL METHOD. Advances in Differential Equations and Control Processes, 2018, 19, 275-285. | 0.2 | 14 |
| 30 | Mathematical and numerical optimality of non-singular fractional approaches on free and forced linear oscillator. Nonlinear Engineering, 2020, 9, 449-456. | 2.7 | 12 |
| 31 | A New Three-Step Root-Finding Numerical Method and Its Fractal Global Behavior. Fractal and Fractional, 2021, 5, 204. | 3.3 | 12 |
| 32 | 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 |
| 33 | A New Nonlinear Ninth-Order Root-Finding Method with Error Analysis and Basins of Attraction. Mathematics, 2021, 9, 1996. | 2.2 | 7 |
| 34 | A new family of ?â˘’ acceptable nonlinear methods with fixed and variable stepsize approach. Computational and Mathematical Methods, 2021, 3, e1213. | 0.8 | 6 |
| 35 | New Integral Inequalities via Generalized Preinvex Functions. Axioms, 2021, 10, 296. | 1.9 | 5 |
| 36 | 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 |

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|---|---------|-----|-----------|
| 37 | Development of a New Multi-step Iteration Scheme for Solving Non-Linear Models with Complex Polynomiography. Complexity, 2022, 2022, 1-15. | 1.6 | 1 |
| 38 | Some integral inequalities via new family of preinvex functions. Ä°letiÅŸim, Sosyoloji Ve Tarih AraÅŸtÄ±rmalarÄ± Dergisi:, 0, , . | 1.8 | 1 |
| 39 | A new second order open iterated method without second derivative for solving nonlinear equations. , 2018, , . | | 0 |