# Muhammad Farman

List of Publications by Year
in descending order

| 47 | 721 | 516710 | 610901 |
|---|---|---|---|
| **47**<br>papers | **721**<br>citations | **16**<br>h-index | **24**<br>g-index |
| **47**<br>all docs | **47**<br>docs citations | **47**<br>times ranked | **262**<br>citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 1 | 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 |
| 2 | Fractal fractional-order derivative for HIV/AIDS model with Mittag-Leffler kernel. AEJ - Alexandria Engineering Journal, 2022, 61, 10965-10980. | 6.4 | 49 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | A review on perovskite lanthanum aluminate (LaAlO$_3$), its properties and applications. Materials Research Express, 2019, 6, 112001. | 1.6 | 32 |
| 7 | Modeling and analysis of fractional order Ebola virus model with Mittag-Leffler kernel. AEJ - Alexandria Engineering Journal, 2022, 61, 2062-2073. | 6.4 | 28 |
| 8 | Analysis of Fractional Order Chaotic Financial Model with Minimum Interest Rate Impact. Fractal and Fractional, 2020, 4, 43. | 3.3 | 26 |
| 9 | 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 |
| 10 | Modeling of fractional‐order COVID‐19 epidemic model with quarantine and social distancing. Mathematical Methods in the Applied Sciences, 2021, 44, 9334-9350. | 2.3 | 23 |
| 11 | Effect of vaccination to control COVID-19 with fractal fractional operator. AEJ - Alexandria Engineering Journal, 2022, 61, 3551-3557. | 6.4 | 22 |
| 12 | Analysis and dynamical behavior of fractional‐order cancer model with vaccine strategy. Mathematical Methods in the Applied Sciences, 2020, 43, 4871. | 2.3 | 21 |
| 13 | A linear control of composite model for glucose insulin glucagon pump. Ain Shams Engineering Journal, 2019, 10, 867-872. | 6.1 | 20 |
| 14 | Modeling and numerical investigation of fractional‐order bovine babesiosis disease. Numerical Methods for Partial Differential Equations, 2021, 37, 1946-1964. | 3.6 | 20 |
| 15 | Modeling and analysis fractal order cancer model with effects of chemotherapy. Chaos, Solitons and Fractals, 2022, 161, 112325. | 5.1 | 18 |
| 16 | Control of an artificial human pancreas. Chinese Journal of Physics, 2017, 55, 2273-2282. | 3.9 | 17 |
| 17 | Fractional order model for complex Layla and Majnun love story with chaotic behaviour. AEJ - Alexandria Engineering Journal, 2022, 61, 6725-6738. | 6.4 | 17 |
| 18 | Stability analysis and control of the glucose insulin glucagon system in humans. Chinese Journal of Physics, 2018, 56, 1362-1369. | 3.9 | 16 |

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|---|---------|-----|-----------|
| 19 | Fractal–fractional operator for COVID-19 (Omicron) variant outbreak with analysis and modeling. Results in Physics, 2022, 39, 105630. | 4.1 | 16 |
| 20 | Analysis of dengue transmission using fractional order scheme. AIMS Mathematics, 2022, 7, 8408-8429. | 1.6 | 15 |
| 21 | Treatment of HIV/AIDS epidemic model with vertical transmission by using evolutionary Padé-approximation. Chaos, Solitons and Fractals, 2020, 134, 109686. | 5.1 | 14 |
| 22 | Fractional order COVID-19 model with transmission rout infected through environment. AIMS Mathematics, 2022, 7, 5156-5174. | 1.6 | 14 |
| 23 | Modeling and simulation of fractional order COVID-19 model with quarantined-isolated people. Mathematical Methods in the Applied Sciences, 2021, 44, 6389-6405. | 2.3 | 13 |
| 24 | Unsteady MHD flow of Maxwell fluid with Caputo–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 |
| 25 | Dynamical behavior of tumor-immune system with fractal-fractional operator. AIMS Mathematics, 2022, 7, 8751-8773. | 1.6 | 12 |
| 26 | Controllability and observability of glucose insulin glucagon system in humans. Chinese Journal of Physics, 2018, 56, 1909-1916. | 3.9 | 11 |
| 27 | Epidemiological Analysis of the Coronavirus Disease Outbreak with Random Effects. Computers, Materials and Continua, 2021, 67, 3215-3227. | 1.9 | 11 |
| 28 | Numerical treatment of a nonlinear dynamical Hepatitis-B model: an evolutionary approach. European Physical Journal Plus, 2020, 135, 1. | 2.6 | 10 |
| 29 | 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 |
| 30 | Analysis and Simulation of Fractional Order Smoking Epidemic Model. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-16. | 1.3 | 10 |
| 31 | Dynamical Transmission of Coronavirus Model with Analysis and Simulation. CMES - Computer Modeling in Engineering and Sciences, 2021, 127, 753-769. | 1.1 | 9 |
| 32 | 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 |
| 33 | Dynamical behaviour of fractional-order finance system. Pramana - Journal of Physics, 2020, 94, 1. | 1.8 | 8 |
| 34 | Generalized form of fractional order COVID-19 model with Mittag–Leffler kernel. Mathematical Methods in the Applied Sciences, 2021, 44, 8598-8614. | 2.3 | 7 |
| 35 | 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 |
| 36 | Analysis of HIV/AIDS model with Mittag-Leffler kernel. AIMS Mathematics, 2022, 7, 13383-13401. | 1.6 | 6 |

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|---|---------|----|-----------|
| 37 | 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 |
| 38 | On Solutions of the Stiff Differential Equations in Chemistry Kinetics with Fractal-Fractional Derivatives. Journal of Computational and Nonlinear Dynamics, 2022, , . | 1.2 | 5 |
| 39 | Controllability of PDEs model for type 1 diabetes. Mathematical Methods in the Applied Sciences, 2022, 45, 8800-8808. | 2.3 | 4 |
| 40 | Computational analysis of COVID-19 model outbreak with singular and nonlocal operator. AIMS Mathematics, 2022, 7, 16741-16759. | 1.6 | 3 |
| 41 | A mathematical analysis and simulation for Zika virus model with time fractional derivative. Mathematical Methods in the Applied Sciences, 2020, , . | 2.3 | 2 |
| 42 | 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 |
| 43 | Generalization method of generating the continuous nested distributions. International Journal of Nonlinear Sciences and Numerical Simulation, 2023, 24, 1327-1353. | 1.0 | 2 |
| 44 | Discretization of the method of generating an expanded family of distributions based upon truncated distributions. Thermal Science, 2021, 25, 19-30. | 1.1 | 1 |
| 45 | 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 |
| 46 | Analysis of COVID-19 epidemic model with sumudu transform. AIMS Public Health, 2022, 9, 316-330. | 2.6 | 1 |
| 47 | Fractal fractional derivative on chemistry kinetics hires problem. AIMS Mathematics, 2021, 7, 1155-1184. | 1.6 | 0 |