

Muhammad Umar

List of Publications by Year in descending order

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31
papers

1,767
citations

304743

22
h-index

434195

31
g-index

31
all docs

31
docs citations

31
times ranked

388
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of Morlet wavelet neural network to solve the non-linear influenza disease system. Applied Mathematics and Nonlinear Sciences, 2023, 8, 2033-2048.	1.6	10
2	FMNSICS: Fractional Meyer neuro-swarm intelligent computing solver for nonlinear fractional Lane–Emden systems. Neural Computing and Applications, 2022, 34, 4193-4206.	5.6	28
3	Designing of Morlet wavelet as a neural network for a novel prevention category in the HIV system. International Journal of Biomathematics, 2022, 15, .	2.9	20
4	An Advance Computing Numerical Heuristic of Nonlinear SIR Dengue Fever System Using the Morlet Wavelet Kernel. Journal of Healthcare Engineering, 2022, 2022, 1-14.	1.9	6
5	A computational framework to solve the nonlinear dengue fever SIR system. Computer Methods in Biomechanics and Biomedical Engineering, 2022, 25, 1821-1834.	1.6	10
6	Integrated intelligent computing paradigm for nonlinear multi-singular third-order Emden–Fowler equation. Neural Computing and Applications, 2021, 33, 3417-3436.	5.6	53
7	Solving a class of biological HIV infection model of latently infected cells using heuristic approach. Discrete and Continuous Dynamical Systems - Series S, 2021, 14, 3611.	1.1	35
8	IoT Technology Enabled Heuristic Model With Morlet Wavelet Neural Network for Numerical Treatment of Heterogeneous Mosquito Release Ecosystem. IEEE Access, 2021, 9, 132897-132913.	4.2	21
9	Computational Intelligent Paradigms to Solve the Nonlinear SIR System for Spreading Infection and Treatment Using Levenberg–Marquardt Backpropagation. Symmetry, 2021, 13, 618.	2.2	16
10	A novel study of Morlet neural networks to solve the nonlinear HIV infection system of latently infected cells. Results in Physics, 2021, 25, 104235.	4.1	61
11	Integrated neuro-swarm heuristic with interior-point for nonlinear Sitr model for dynamics of novel COVID-19. AEJ - Alexandria Engineering Journal, 2021, 60, 2811-2824.	6.4	79
12	APPLICATIONS OF GUDERMANNIAN NEURAL NETWORK FOR SOLVING THE Sitr FRACTAL SYSTEM. Fractals, 2021, 29, .	3.7	23
13	Soft Computing Paradigms to Find the Numerical Solutions of a Nonlinear Influenza Disease Model. Applied Sciences (Switzerland), 2021, 11, 8549.	2.5	6
14	Neuro-swarm intelligent computing paradigm for nonlinear HIV infection model with CD4+ T-cells. Mathematics and Computers in Simulation, 2021, 188, 241-253.	4.4	69
15	A numerical approach for 2-D Sutterby fluid-flow bounded at a stagnation point with an inclined magnetic field and thermal radiation impacts. Thermal Science, 2021, 25, 1975-1987.	1.1	43
16	Competency of Neural Networks for the Numerical Treatment of Nonlinear Host-Vector-Predator Model. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-13.	1.3	9
17	Numerical Investigations through ANNs for Solving COVID-19 Model. International Journal of Environmental Research and Public Health, 2021, 18, 12192.	2.6	9
18	A Stochastic Intelligent Computing with Neuro-Evolution Heuristics for Nonlinear Sitr System of Novel COVID-19 Dynamics. Symmetry, 2020, 12, 1628.	2.2	116

#	ARTICLE	IF	CITATIONS
19	A stochastic computational intelligent solver for numerical treatment of mosquito dispersal model in a heterogeneous environment. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	126
20	A stochastic numerical computing heuristic of SIR nonlinear model based on dengue fever. <i>Results in Physics</i> , 2020, 19, 103585.	4.1	81
21	Design of neuro-swarming-based heuristics to solve the third-order nonlinear multi-singular Emden-Fowler equation. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	87
22	Stochastic numerical technique for solving HIV infection model of CD4+ T cells. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	127
23	Neuro-swarm intelligent computing to solve the second-order singular functional differential model. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	88
24	Novel design of Morlet wavelet neural network for solving second order Lane-Emden equation. <i>Mathematics and Computers in Simulation</i> , 2020, 172, 1-14.	4.4	126
25	The 3-D flow of Casson nanofluid over a stretched sheet with chemical reactions, velocity slip, thermal radiation and Brownian motion. <i>Thermal Science</i> , 2020, 24, 2929-2939.	1.1	50
26	A Computational Analysis of Two-Phase Casson Nanofluid Passing a Stretching Sheet Using Chemical Reactions and Gyrotactic Microorganisms. <i>Mathematical Problems in Engineering</i> , 2019, 2019, 1-12.	1.1	43
27	Stochastic numerical approach for solving second order nonlinear singular functional differential equation. <i>Applied Mathematics and Computation</i> , 2019, 363, 124605.	2.2	57
28	Unsupervised constrained neural network modeling of boundary value corneal model for eye surgery. <i>Applied Soft Computing Journal</i> , 2019, 85, 105826.	7.2	56
29	Intelligent computing for numerical treatment of nonlinear prey-predator models. <i>Applied Soft Computing Journal</i> , 2019, 80, 506-524.	7.2	128
30	Numerical Treatment for the Three-Dimensional Eyring-Powell Fluid Flow over a Stretching Sheet with Velocity Slip and Activation Energy. <i>Advances in Mathematical Physics</i> , 2019, 2019, 1-12.	0.8	53
31	A new stochastic computing paradigm for the dynamics of nonlinear singular heat conduction model of the human head. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	131