Mohamed RAli

List of Publications by Year
in descending order

45 papers	863 citations	18 h-index 430754	25 g-index 580701
48 all docs	48 docs citations	48 times ranked	250 citing authors

#	Article	IF	Citations
1	Gudermannian neural networks using the optimization procedures of genetic algorithm and active set approach for the three-species food chain nonlinear model. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 8913-8922.	3.3	26
2	Analysis of the nanoscale heat transport and Lorentz force based on the time-dependent Cross nanofluid. Engineering With Computers, 2023, 39, 2089-2108.	3.5	14
3	Dynamics of three-point boundary value problems with Gudermannian neural networks. Evolutionary Intelligence, 2023, 16, 697-709.	2.3	3
4	Characteristics of melting heat transport of blood with time-dependent cross-nanofluid model using Keller–Box and BVP4C method. Engineering With Computers, 2022, 38, 3705-3719.	3.5	62
5	Computational intelligence approach using Levenberg–Marquardt backpropagation neural networks to solve the fourth-order nonlinear system of Emden–Fowler model. Engineering With Computers, 2022, 38, 2975-2991.	3.5	24
6	Lie symmetry analysis and invariant solutions for (2+1) dimensional Bogoyavlensky-Konopelchenko equation with variable-coefficient in wave propagation. Journal of Ocean Engineering and Science, 2022, 7, 248-254.	1.7	19
7	Effects of homogeneous-heterogeneous and Lorentz forces on 3-D radiative magnetized cross nanofluid using two rotating disks. International Communications in Heat and Mass Transfer, 2022, 130, 105778.	2.9	42
8	Applications of neural networks for the novel designed of nonlinear fractional seventh order singular system. European Physical Journal: Special Topics, 2022, 231, 1831-1845.	1.2	15
9	A novel computing stochastic algorithm to solve the nonlinear singular periodic boundary value problems. International Journal of Computer Mathematics, 2022, 99, 2091-2104.	1.0	17
10	Aspects of infinite shear rate viscosity and heat transport of magnetized Carreau nanofluid. European Physical Journal Plus, 2022, 137, 1.	1.2	31
11	A Numerical Study of the Fractional Order Dynamical Nonlinear Susceptible Infected and Quarantine Differential Model Using the Stochastic Numerical Approach. Fractal and Fractional, 2022, 6, 139.	1.6	21
12	Artificial neural network scheme to solve the nonlinear influenza disease model. Biomedical Signal Processing and Control, 2022, 75, 103594.	3.5	37
13	Neuron Analysis of the Two-Point Singular Boundary Value Problems Arising in the Thermal Explosion's Theory. Neural Processing Letters, 2022, 54, 4297-4324.	2.0	9
14	Cubic autocatalysis-based activation energy and thermophoretic diffusion effects of steady micro-polar nano-fluid. Microfluidics and Nanofluidics, 2022, 26, .	1.0	3
15	Numerical treatment for the nonlinear fifth kind of multi-singular differential model: a neuro-swarming approach. Physica Scripta, 2022, 97, 075203.	1.2	0
16	A stochastic computing procedure to solve the dynamics of prevention in HIV system. Biomedical Signal Processing and Control, 2022, 78, 103888.	3.5	23
17	A numerical simulation of the fractional order Leptospirosis model using the supervise neural network. AEJ - Alexandria Engineering Journal, 2022, 61, 12431-12441.	3.4	33
18	Preoperative and Intraoperative Factors That Influence Length of Stay in Patients on an Enhanced Recovery After Surgery Protocol Following Bariatric Surgery. Bariatric Surgical Patient Care, 2021, 16, 10-14.	0.1	0

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19	A combined method for simulating MHD convection in square cavities through localized heating by method of line and penalty-artificial compressibility. Journal of Taibah University for Science, 2021, 15, 208-217.	1.1	28
20	Construction of Lump and optical solitons solutions for (3‰+‰1) model for the propagation of nonlinear dispersive waves in inhomogeneous media. Optical and Quantum Electronics, 2021, 53, 1.	1.5	19
21	Lie symmetry analysis, new group invariant for the (3Â+Â1)-dimensional and variable coefficients for liquids with gas bubbles models. Chinese Journal of Physics, 2021, 71, 539-547.	2.0	47
22	Investigation of new solutions for an extended (2 + 1)-dimensional Calogero-Bogoyavlenskii-Schif equation. Frontiers of Mathematics in China, 2021, 16, 925-936.	0.4	15
23	Lie symmetry analysis and invariant solutions of 3D Euler equations for axisymmetric, incompressible, and inviscid flow in the cylindrical coordinates. Advances in Difference Equations, 2021, 2021, .	3.5	16
24	Application of a new hybrid method for solving singular fractional Lane–Emden-type equations in astrophysics. Modern Physics Letters B, 2020, 34, 2050049.	1.0	22
25	The method of lines for solution of the carbon nanotubes engine oil nanofluid over an unsteady rotating disk. European Physical Journal Plus, 2020, 135, 1.	1.2	29
26	Evolutionary numerical approach for solving nonlinear singular periodic boundary value problems. Journal of Intelligent and Fuzzy Systems, 2020, 39, 7723-7731.	0.8	10
27	Analytical Solutions for Nonlinear Dispersive Physical Model. Complexity, 2020, 2020, 1-8.	0.9	12
28	New wavelet method for solving boundary value problems arising from an adiabatic tubular chemical reactor theory. International Journal of Biomathematics, 2020, 13, 2050059.	1.5	7
29	New exact solutions of Bratu Gelfand model in two dimensions using Lie symmetry analysis. Chinese Journal of Physics, 2020, 65, 198-206.	2.0	33
30	Haar wavelets scheme for solving the unsteady gas-flow in 4-D. Thermal Science, 2020, 24, 1357-1367.	0.5	17
31	New Exact Solutions of Nonlinear (3 + 1)-Dimensional Boiti-Leon-Manna-Pempinelli Equation. Advances in Mathematical Physics, 2019, 2019, 1-7.	0.4	21
32	Solution of fractional Volterra–Fredholm integro-differential equations under mixed boundary conditions by using the HOBW method. Advances in Difference Equations, 2019, 2019, .	3.5	38
33	A new algorithm for solving the nonlinear Lane–Emden equations arising in astrophysics. SN Applied Sciences, 2019, 1, 1.	1.5	0
34	A Truncation Method for Solving the Time-Fractional Benjamin-Ono Equation. Journal of Applied Mathematics, 2019, 2019, 1-7.	0.4	27
35	Solution of Nonlinear Volterra Integral Equations with Weakly Singular Kernel by Using the HOBW Method. Advances in Mathematical Physics, 2019, 2019, 1-10.	0.4	20
36	Application of Haar Wavelet Method for Solving the Nonlinear Fuzzy Integro-Differential Equations. Journal of Computational and Theoretical Nanoscience, 2019, 16, 365-372.	0.4	1

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37	Detection of new multi-wave solutions in an unbounded domain. Modern Physics Letters B, 2019, 33, 1950425.	1.0	11
38	Hybrid Orthonormal Bernstein and Block-Pulse functions wavelet scheme for solving the 2D Bratu problem. Results in Physics, 2019, 12, 525-530.	2.0	34
39	Application of Bernoulli wavelet method to solve a system of fuzzy integral equations. Journal of Modern Methods in Numerical Mathematics, 2018, 9, 16-27.	0.3	3
40	An efficient hybrid method for solving fredholm integral equations using triangular functions. New Trends in Mathematical Sciences, 2017, 1, 213-224.	0.1	7
41	Dynamics of multi-point singular fifth-order Laneâ€"Emden system with neuro-evolution heuristics. Evolving Systems, 0, , 1.	2.4	9
42	A novel design of a sixth-order nonlinear modeling for solving engineering phenomena based on neuro intelligence algorithm. Engineering With Computers, 0, , 1.	3.5	3
43	Magnetic dipole aspect of binary chemical reactive Cross nanofluid and heat transport over composite cylindrical panels. Waves in Random and Complex Media, 0, , 1-24.	1.6	16
44	Spectral relaxation approach and velocity slip stagnation point flow of inclined magnetized cross-nanofluid with a quadratic multiple regression model. Waves in Random and Complex Media, 0, , 1-25.	1.6	25
45	Melting and entropy generation of infinite shear rate viscosity Carreau model over Riga plate with erratic thickness: a numerical Keller Box approach. Waves in Random and Complex Media, 0, , 1-25.	1.6	13