

# Mohamed RAli

## List of Publications by Year in descending order

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45  
papers

863  
citations

430754

18  
h-index

580701

25  
g-index

48  
all docs

48  
docs citations

48  
times ranked

250  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characteristics of melting heat transport of blood with time-dependent cross-nanofluid model using Keller's Box and BVP4C method. <i>Engineering With Computers</i> , 2022, 38, 3705-3719.	3.5	62
2	Lie symmetry analysis, new group invariant for the (3+1)-dimensional and variable coefficients for liquids with gas bubbles models. <i>Chinese Journal of Physics</i> , 2021, 71, 539-547.	2.0	47
3	Effects of homogeneous-heterogeneous and Lorentz forces on 3-D radiative magnetized cross nanofluid using two rotating disks. <i>International Communications in Heat and Mass Transfer</i> , 2022, 130, 105778.	2.9	42
4	Solution of fractional Volterra-Fredholm integro-differential equations under mixed boundary conditions by using the HOBW method. <i>Advances in Difference Equations</i> , 2019, 2019, .	3.5	38
5	Artificial neural network scheme to solve the nonlinear influenza disease model. <i>Biomedical Signal Processing and Control</i> , 2022, 75, 103594.	3.5	37
6	Hybrid Orthonormal Bernstein and Block-Pulse functions wavelet scheme for solving the 2D Bratu problem. <i>Results in Physics</i> , 2019, 12, 525-530.	2.0	34
7	New exact solutions of Bratu Gelfand model in two dimensions using Lie symmetry analysis. <i>Chinese Journal of Physics</i> , 2020, 65, 198-206.	2.0	33
8	A numerical simulation of the fractional order Leptospirosis model using the supervise neural network. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 12431-12441.	3.4	33
9	Aspects of infinite shear rate viscosity and heat transport of magnetized Carreau nanofluid. <i>European Physical Journal Plus</i> , 2022, 137, 1.	1.2	31
10	The method of lines for solution of the carbon nanotubes engine oil nanofluid over an unsteady rotating disk. <i>European Physical Journal Plus</i> , 2020, 135, 1.	1.2	29
11	A combined method for simulating MHD convection in square cavities through localized heating by method of line and penalty-artificial compressibility. <i>Journal of Taibah University for Science</i> , 2021, 15, 208-217.	1.1	28
12	A Truncation Method for Solving the Time-Fractional Benjamin-Ono Equation. <i>Journal of Applied Mathematics</i> , 2019, 2019, 1-7.	0.4	27
13	Gudermannian neural networks using the optimization procedures of genetic algorithm and active set approach for the three-species food chain nonlinear model. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 8913-8922.	3.3	26
14	Spectral relaxation approach and velocity slip stagnation point flow of inclined magnetized cross-nanofluid with a quadratic multiple regression model. <i>Waves in Random and Complex Media</i> , 0, , 1-25.	1.6	25
15	Computational intelligence approach using Levenberg-Marquardt backpropagation neural networks to solve the fourth-order nonlinear system of Emden-Fowler model. <i>Engineering With Computers</i> , 2022, 38, 2975-2991.	3.5	24
16	A stochastic computing procedure to solve the dynamics of prevention in HIV system. <i>Biomedical Signal Processing and Control</i> , 2022, 78, 103888.	3.5	23
17	Application of a new hybrid method for solving singular fractional Lane-Emden-type equations in astrophysics. <i>Modern Physics Letters B</i> , 2020, 34, 2050049.	1.0	22
18	New Exact Solutions of Nonlinear (3 + 1)-Dimensional Boiti-Leon-Manna-Pempinelli Equation. <i>Advances in Mathematical Physics</i> , 2019, 2019, 1-7.	0.4	21

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19	A Numerical Study of the Fractional Order Dynamical Nonlinear Susceptible Infected and Quarantine Differential Model Using the Stochastic Numerical Approach. <i>Fractal and Fractional</i> , 2022, 6, 139.	1.6	21
20	Solution of Nonlinear Volterra Integral Equations with Weakly Singular Kernel by Using the HOBW Method. <i>Advances in Mathematical Physics</i> , 2019, 2019, 1-10.	0.4	20
21	Construction of Lump and optical solitons solutions for $(3+1)$ model for the propagation of nonlinear dispersive waves in inhomogeneous media. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	1.5	19
22	Lie symmetry analysis and invariant solutions for $(2+1)$ dimensional Bogoyavlensky-Konopelchenko equation with variable-coefficient in wave propagation. <i>Journal of Ocean Engineering and Science</i> , 2022, 7, 248-254.	1.7	19
23	Haar wavelets scheme for solving the unsteady gas-flow in 4-D. <i>Thermal Science</i> , 2020, 24, 1357-1367.	0.5	17
24	A novel computing stochastic algorithm to solve the nonlinear singular periodic boundary value problems. <i>International Journal of Computer Mathematics</i> , 2022, 99, 2091-2104.	1.0	17
25	Lie symmetry analysis and invariant solutions of 3D Euler equations for axisymmetric, incompressible, and inviscid flow in the cylindrical coordinates. <i>Advances in Difference Equations</i> , 2021, 2021, .	3.5	16
26	Magnetic dipole aspect of binary chemical reactive Cross nanofluid and heat transport over composite cylindrical panels. <i>Waves in Random and Complex Media</i> , 0, , 1-24.	1.6	16
27	Investigation of new solutions for an extended $(2 + 1)$ -dimensional Calogero-Bogoyavlenskii-Schif equation. <i>Frontiers of Mathematics in China</i> , 2021, 16, 925-936.	0.4	15
28	Applications of neural networks for the novel designed of nonlinear fractional seventh order singular system. <i>European Physical Journal: Special Topics</i> , 2022, 231, 1831-1845.	1.2	15
29	Analysis of the nanoscale heat transport and Lorentz force based on the time-dependent Cross nanofluid. <i>Engineering With Computers</i> , 2023, 39, 2089-2108.	3.5	14
30	Melting and entropy generation of infinite shear rate viscosity Carreau model over Riga plate with erratic thickness: a numerical Keller Box approach. <i>Waves in Random and Complex Media</i> , 0, , 1-25.	1.6	13
31	Analytical Solutions for Nonlinear Dispersive Physical Model. <i>Complexity</i> , 2020, 2020, 1-8.	0.9	12
32	Detection of new multi-wave solutions in an unbounded domain. <i>Modern Physics Letters B</i> , 2019, 33, 1950425.	1.0	11
33	Evolutionary numerical approach for solving nonlinear singular periodic boundary value problems. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020, 39, 7723-7731.	0.8	10
34	Dynamics of multi-point singular fifth-order Lane-Emden system with neuro-evolution heuristics. <i>Evolving Systems</i> , 0, , 1.	2.4	9
35	Neuron Analysis of the Two-Point Singular Boundary Value Problems Arising in the Thermal Explosion Theory. <i>Neural Processing Letters</i> , 2022, 54, 4297-4324.	2.0	9
36	New wavelet method for solving boundary value problems arising from an adiabatic tubular chemical reactor theory. <i>International Journal of Biomathematics</i> , 2020, 13, 2050059.	1.5	7

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37	An efficient hybrid method for solving fredholm integral equations using triangular functions. <i>New Trends in Mathematical Sciences</i> , 2017, 1, 213-224.	0.1	7
38	Application of Bernoulli wavelet method to solve a system of fuzzy integral equations. <i>Journal of Modern Methods in Numerical Mathematics</i> , 2018, 9, 16-27.	0.3	3
39	A novel design of a sixth-order nonlinear modeling for solving engineering phenomena based on neuro intelligence algorithm. <i>Engineering With Computers</i> , 0, , 1.	3.5	3
40	Dynamics of three-point boundary value problems with Gudermannian neural networks. <i>Evolutionary Intelligence</i> , 2023, 16, 697-709.	2.3	3
41	Cubic autocatalysis-based activation energy and thermophoretic diffusion effects of steady micro-polar nano-fluid. <i>Microfluidics and Nanofluidics</i> , 2022, 26, .	1.0	3
42	Application of Haar Wavelet Method for Solving the Nonlinear Fuzzy Integro-Differential Equations. <i>Journal of Computational and Theoretical Nanoscience</i> , 2019, 16, 365-372.	0.4	1
43	A new algorithm for solving the nonlinear Laneâ€™Emden equations arising in astrophysics. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	0
44	Preoperative and Intraoperative Factors That Influence Length of Stay in Patients on an Enhanced Recovery After Surgery Protocol Following Bariatric Surgery. <i>Bariatric Surgical Patient Care</i> , 2021, 16, 10-14.	0.1	0
45	Numerical treatment for the nonlinear fifth kind of multi-singular differential model: a neuro-swarming approach. <i>Physica Scripta</i> , 2022, 97, 075203.	1.2	0