

# Mahmoud

## List of Publications by Year in descending order

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79  
papers

1,363  
citations

279798

23  
h-index

414414

32  
g-index

80  
all docs

80  
docs citations

80  
times ranked

233  
citing authors

#	ARTICLE	IF	CITATIONS
1	The modified Rusanov scheme for solving the phonon-Bose model. International Journal of Nonlinear Sciences and Numerical Simulation, 2024, 24, 2853-2864.	1.0	1
2	Wave structures to the three coupled nonlinear Maccari's systems in plasma physics. Results in Physics, 2022, 33, 105092.	4.1	9
3	Some solutions for a stochastic NLSE in the unstable and higher order dispersive environments. Results in Physics, 2022, 34, 105242.	4.1	23
4	A new structure of solutions to the coupled nonlinear Maccari's systems in plasma physics. AIMS Mathematics, 2022, 7, 8588-8606.	1.6	13
5	A new structure of solutions to the system of ISALWs via stochastic sense. Results in Physics, 2022, 37, 105473.	4.1	9
6	Characteristics of stochastic Langmuir wave structures in presence of Itô sense. Results in Physics, 2022, 37, 105435.	4.1	10
7	The nonextensive effects on the supersoliton structure in critical plasma state. Chinese Journal of Physics, 2022, 77, 1987-1996.	3.9	2
8	The New Wave Structures to the Fractional Ion Sound and Langmuir Waves Equation in Plasma Physics. Fractal and Fractional, 2022, 6, 227.	3.3	7
9	New solitary electrostatic structures for Zakharov model in subsonic limit for solar-wind. Results in Physics, 2022, 37, 105521.	4.1	5
10	New solutions for perturbed chiral nonlinear Schrödinger equation. AIMS Mathematics, 2022, 7, 12289-12302.	1.6	6
11	The new structures of stochastic solutions for the nonlinear Schrödinger's equations. Journal of Low Frequency Noise Vibration and Active Control, 2022, 41, 1369-1379.	2.9	3
12	A new structure of optical solitons to the (n+1)-NLSE. Results in Physics, 2022, 37, 105535.	4.1	1
13	Modulations of some physical parameters in a nonlinear Schrödinger type equation in fiber communications. Results in Physics, 2022, 38, 105548.	4.1	5
14	New exact solutions for the reaction-diffusion equation in mathematical physics. Journal of Ocean Engineering and Science, 2022, , .	4.3	6
15	Simulating isothermal Euler model with non-vacuum initial data via mR scheme. Journal of Low Frequency Noise Vibration and Active Control, 2022, 41, 1466-1477.	2.9	2
16	The deterministic and stochastic solutions for the nonlinear Phi-4 equation. International Journal of Nonlinear Sciences and Numerical Simulation, 2022, 23, 823-832.	1.0	5
17	New solitary optical solutions for the NLSE with $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.svg" display="inline" id="d1e201">\hat{\Gamma} \rangle$ -potential through Brownian process. Results in Physics, 2022, 40, 105814.	4.1	4
18	The effect of multiplicative noise on the exact solutions of nonlinear Schrödinger equation. AIMS Mathematics, 2021, 6, 2970-2980.	1.6	43

#	ARTICLE	IF	CITATIONS
19	New exact and numerical solutions for the KdV system arising in physical applications. Arab Journal of Basic and Applied Sciences, 2021, 28, 113-121.	2.1	2
20	Fundamental solutions for the conformable time fractional Phi-4 and space-time fractional simplified MCH equations. AIMS Mathematics, 2021, 6, 6555-6568.	1.6	14
21	On the physical nonlinear (n <sup>1/4</sup> <1)-dimensional Schrödinger equation applications. Results in Physics, 2021, 21, 103798.	4.1	30
22	Closed-form solutions to the new coupled Konno-Oono equation and the Kaup-Newell model equation in magnetic field with novel statistic application. European Physical Journal Plus, 2021, 136, 1.	2.6	12
23	Positron nonextensivity contributions on the rational solitonic, periodic, dissipative structures for MKP equation described critical plasmas. Advances in Space Research, 2021, 67, 3260-3266.	2.6	5
24	Investigation of new waves in chemical engineering. Physica Scripta, 2021, 96, 075218.	2.5	5
25	Fundamental solutions to the stochastic perturbed nonlinear Schrödinger's equation via gamma distribution. Results in Physics, 2021, 25, 104249.	4.1	28
26	Fundamental stochastic solutions for the conformable fractional NLSE with spatiotemporal dispersion via exponential distribution. Physica Scripta, 2021, 96, 125223.	2.5	24
27	Analytical and numerical investigations of the modified Camassa-Holm equation. Pramana - Journal of Physics, 2021, 95, 1.	1.8	10
28	Higher-order Kerr nonlinear and dispersion effects on fiber optics. Results in Physics, 2021, 26, 104268.	4.1	12
29	New stochastic solutions for a new extension of nonlinear Schrödinger equation. Pramana - Journal of Physics, 2021, 95, 1.	1.8	14
30	The modified Rusanov scheme for solving the ultra-relativistic Euler equations. European Journal of Mechanics, B/Fluids, 2021, 90, 89-98.	2.5	14
31	New exact solutions to the dual-core optical fibers. Indian Journal of Physics, 2020, 94, 705-711.	1.8	12
32	On the nonlinear new wave solutions in unstable dispersive environments. Physica Scripta, 2020, 95, 045220.	2.5	40
33	The coupled nonlinear Schrödinger-type equations. Modern Physics Letters B, 2020, 34, 2050078.	1.9	41
34	Soliton solutions for system of ion sound and Langmuir waves. Optical and Quantum Electronics, 2020, 52, 1.	3.3	10
35	New super waveforms for modified Korteweg-de-Vries-equation. Results in Physics, 2020, 19, 103420.	4.1	9
36	Fundamental solutions for the new coupled Konno-Oono equation in magnetic field. Results in Physics, 2020, 19, 103445.	4.1	22

#	ARTICLE	IF	CITATIONS
37	Exact Solutions of the (2+1)-Dimensional Stochastic Chiral Nonlinear Schrödinger Equation. <i>Symmetry</i> , 2020, 12, 1874.	2.2	57
38	Fundamental Solutions for the Generalised Third-Order Nonlinear Schrödinger Equation. <i>International Journal of Applied and Computational Mathematics</i> , 2020, 6, 1.	1.6	3
39	New nonlinear periodic, solitonic, dissipative waveforms for modified-Kadomtsev-Petviashvili-equation in nonthermal positron plasma. <i>Results in Physics</i> , 2020, 19, 103393.	4.1	16
40	Disturbance solutions for the long-short-wave interaction system using bi-random Riccati-Bernoulli sub-ODE method. <i>Journal of Taibah University for Science</i> , 2020, 14, 500-506.	2.5	30
41	New Soliton Applications in Earth's Magnetotail Plasma at Critical Densities. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	5
42	A robust and accurate solver for some nonlinear partial differential equations and tow applications. <i>Physica Scripta</i> , 2020, 95, 065212.	2.5	47
43	The impact of multiplicative noise on the solution of the Chiral nonlinear Schrödinger equation. <i>Physica Scripta</i> , 2020, 95, 085222.	2.5	12
44	Analytical and numerical investigation for Kadomtsev-Petviashvili equation arising in plasma physics. <i>Physica Scripta</i> , 2020, 95, 045215.	2.5	30
45	Fundamental Solutions for the Coupled KdV System and Its Stability. <i>Symmetry</i> , 2020, 12, 429.	2.2	21
46	Stochastic treatment of the solutions for the resonant nonlinear Schrödinger equation with spatio-temporal dispersions and inter-modal using beta distribution. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	33
47	Closed-form solutions to the conformable space-time fractional simplified MCH equation and time fractional Phi-4 equation. <i>Results in Physics</i> , 2020, 18, 103294.	4.1	32
48	Positron superthermality effects on the solitonic, dissipative, periodic waveforms for M-Kadomtsev-Petviashvili-plasma-equation. <i>Physica Scripta</i> , 2020, 95, 105204.	2.5	13
49	Analytical and Numerical Investigation for the DMBBM Equation. <i>CMES - Computer Modeling in Engineering and Sciences</i> , 2020, 122, 743-756.	1.1	8
50	New solutions for the unstable nonlinear Schrödinger equation arising in natural science. <i>AIMS Mathematics</i> , 2020, 5, 1893-1912.	1.6	10
51	Fundamental solutions for the long-short-wave interaction system. <i>Open Physics</i> , 2020, 18, 1093-1099.	1.7	3
52	Exact solutions of the cubic Boussinesq and the coupled Higgs system. <i>Thermal Science</i> , 2020, 24, 333-342.	1.1	12
53	A new variation for the relativistic Euler equations. <i>Advances in Difference Equations</i> , 2020, 2020, .	3.5	0
54	Exact solutions of the cubic Boussinesq and the coupled Higgs system. <i>Thermal Science</i> , 2020, 24, 333-342.	1.1	0

#	ARTICLE	IF	CITATIONS
55	On the difference equation $z_{m+1} = f(z_m)$ , Tj ETQq1 1 0.784314 rgBT /Ove for Science, 2019, 13, 1014-1021.	2.5	6
56	The new exact solutions for the deterministic and stochastic (2+1)-dimensional equations in natural sciences. Journal of Taibah University for Science, 2019, 13, 834-843.	2.5	24
57	A construction of new traveling wave solutions for the 2D Ginzburg-Landau equation. European Physical Journal Plus, 2019, 134, 1.	2.6	19
58	Elementary waves, Riemann problem, Riemann invariants and new conservation laws for the pressure gradient model. European Physical Journal Plus, 2019, 134, 1.	2.6	3
59	The Deterministic and Stochastic Solutions of the NLEEs in Mathematical Physics. International Journal of Applied and Computational Mathematics, 2019, 5, 1.	1.6	3
60	A Riccati-Bernoulli sub-ODE Method for Some Nonlinear Evolution Equations. International Journal of Nonlinear Sciences and Numerical Simulation, 2019, 20, 303-313.	1.0	30
61	On the new wave solutions to the MCH equation. Indian Journal of Physics, 2019, 93, 903-911.	1.8	47
62	Numerical Investigation of the Wave-Front Tracking Algorithm for the Full Ultra-Relativistic Euler Equations. International Journal of Nonlinear Sciences and Numerical Simulation, 2018, 19, 223-229.	1.0	7
63	The development of the deterministic nonlinear PDEs in particle physics to stochastic case. Results in Physics, 2018, 9, 344-350.	4.1	47
64	Cone-grid scheme for solving hyperbolic systems of conservation laws and one application. Computational and Applied Mathematics, 2018, 37, 3503-3513.	1.3	14
65	On the difference equation $x_{n+1} = ax_n + bx_{n-k} + f(x_n, x_{n-k})$ . Advances in Difference Equations, 2018, 2018, .	3.5	7
66	Conserved schemes with high pressure ratio, high particle density ratio and self-similar method. European Physical Journal Plus, 2018, 133, 1.	2.6	3
67	Solitary wave solutions for some nonlinear time-fractional partial differential equations. Pramana - Journal of Physics, 2018, 91, 1.	1.8	44
68	A note on Riccati-Bernoulli Sub-ODE method combined with complex transform method applied to fractional differential equations. Nonlinear Engineering, 2018, 7, 279-285.	2.7	41
69	The Riccati-Bernoulli Sub-ODE Technique for Solving the Deterministic (Stochastic) Generalized-Zakharov System. International Journal of Mathematics and Systems Science, 2018, 1, .	0.0	7
70	Global solutions for the ultra-relativistic Euler equations. Nonlinear Analysis: Theory, Methods & Applications, 2017, 155, 140-162.	1.1	30
71	Solitary waves for the nonlinear Schrödinger problem with the probability distribution function in the stochastic input case. European Physical Journal Plus, 2017, 132, 1.	2.6	62
72	On the Shallow Water Equations. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2017, 72, 873-879.	1.5	31

#	ARTICLE	IF	CITATIONS
73	The $\exp(-\phi(\xi))$ -Expansion Method and Its Application for Solving Nonlinear Evolution Equations. International Journal of Modern Nonlinear Theory and Application, 2015, 04, 37-47.	0.4	72
74	The ultra-relativistic Euler equations. Mathematical Methods in the Applied Sciences, 2015, 38, 1247-1264.	2.3	33
75	Traveling wave solutions for the Couple Boiti-Leon-Pempinelli System by using extended Jacobian elliptic function expansion method. Journal of Advances in Physics, 2015, 11, 3134-3138.	0.2	5
76	Traveling solitary wave solutions for the symmetric regularized long-wave equation. Journal of Advances in Mathematics, 2015, 11, 5520-5528.	0.1	3
77	The interaction of waves for the ultra-relativistic Euler equations. Journal of Mathematical Analysis and Applications, 2014, 409, 1140-1158.	1.0	20
78	A new front tracking scheme for the ultra-relativistic Euler equations. Journal of Computational Physics, 2014, 275, 213-235.	3.8	14
79	On the Ultra Relativistic Euler Equations. Proceedings in Applied Mathematics and Mechanics, 2012, 12, 597-598.	0.2	1