Mahmoud

List of Publications by Year
in descending order

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 exp(-φ(ξ))-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
2	Solitary waves for the nonlinear SchrÃ¶dinger problem with the probability distribution function in the stochastic input case. European Physical Journal Plus, 2017, 132, 1.	2.6	62
3	Exact Solutions of the (2+1)-Dimensional Stochastic Chiral Nonlinear SchrÃ¶dinger Equation. Symmetry, 2020, 12, 1874.	2.2	57
4	The development of the deterministic nonlinear PDEs in particle physics to stochastic case. Results in Physics, 2018, 9, 344-350.	4.1	47
5	On the new wave solutions to the MCH equation. Indian Journal of Physics, 2019, 93, 903-911.	1.8	47
6	A robust and accurate solver for some nonlinear partial differential equations and tow applications. Physica Scripta, 2020, 95, 065212.	2.5	47
7	Solitary wave solutions for some nonlinear time-fractional partial differential equations. Pramana - Journal of Physics, 2018, 91, 1.	1.8	44
8	The effect of multiplicative noise on the exact solutions of nonlinear SchrÃ¶dinger equation. AIMS Mathematics, 2021, 6, 2970-2980.	1.6	43
9	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
10	The coupled nonlinear SchrÃ¶dinger-type equations. Modern Physics Letters B, 2020, 34, 2050078.	1.9	41
11	On the nonlinear new wave solutions in unstable dispersive environments. Physica Scripta, 2020, 95, 045220.	2.5	40
12	The ultraâ€relativistic Euler equations. Mathematical Methods in the Applied Sciences, 2015, 38, 1247-1264.	2.3	33
13	Stochastic treatment of the solutions for the resonant nonlinear SchrÃ¶dinger equation with spatio-temporal dispersions and inter-modal using beta distribution. European Physical Journal Plus, 2020, 135, 1.	2.6	33
14	Closed-form solutions to the conformable space-time fractional simplified MCH equation and time fractional Phi-4 equation. Results in Physics, 2020, 18, 103294.	4.1	32
15	On the Shallow Water Equations. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2017, 72, 873-879.	1.5	31
16	Global solutions for the ultra-relativistic Euler equations. Nonlinear Analysis: Theory, Methods & Applications, 2017, 155, 140-162.	1.1	30
17	A Riccatiâ€“Bernoulli sub-ODE Method for Some Nonlinear Evolution Equations. International Journal of Nonlinear Sciences and Numerical Simulation, 2019, 20, 303-313.	1.0	30
18	Disturbance solutions for the longâ€“short-wave interaction system using bi-random Riccatiâ€“Bernoulli sub-ODE method. Journal of Taibah University for Science, 2020, 14, 500-506.	2.5	30

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19	Analytical and numerical investigation for Kadomtsevâ€“Petviashvili equation arising in plasma physics. Physica Scripta, 2020, 95, 045215.	2.5	30
20	On the physical nonlinear (nï¼‹1)-dimensional SchrÃ¶dinger equation applications. Results in Physics, 2021, 21, 103798.	4.1	30
21	Fundamental solutions to the stochastic perturbed nonlinear SchrÃ¶dingerâ€™s equation via gamma distribution. Results in Physics, 2021, 25, 104249.	4.1	28
22	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
23	Fundamental stochastic solutions for the conformable fractional NLSE with spatiotemporal dispersion via exponential distribution. Physica Scripta, 2021, 96, 125223.	2.5	24
24	Some solutions for a stochastic NLSE in the unstable and higher order dispersive environments. Results in Physics, 2022, 34, 105242.	4.1	23
25	Fundamental solutions for the new coupled Konno-Oono equation in magnetic field. Results in Physics, 2020, 19, 103445.	4.1	22
26	Fundamental Solutions for the Coupled KdV System and Its Stability. Symmetry, 2020, 12, 429.	2.2	21
27	The interaction of waves for the ultra-relativistic Euler equations. Journal of Mathematical Analysis and Applications, 2014, 409, 1140-1158.	1.0	20
28	A construction of new traveling wave solutions for the 2D Ginzburg-Landau equation. European Physical Journal Plus, 2019, 134, 1.	2.6	19
29	New nonlinear periodic, solitonic, dissipative waveforms for modified-Kadomstev-Petviashvili-equation in nonthermal positron plasma. Results in Physics, 2020, 19, 103393.	4.1	16
30	A new front tracking scheme for the ultra-relativistic Euler equations. Journal of Computational Physics, 2014, 275, 213-235.	3.8	14
31	Cone-grid scheme for solving hyperbolic systems of conservation laws and one application. Computational and Applied Mathematics, 2018, 37, 3503-3513.	1.3	14
32	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
33	New stochastic solutions for a new extension of nonlinear SchrÃ¶dinger equation. Pramana - Journal of Physics, 2021, 95, 1.	1.8	14
34	The modified Rusanov scheme for solving the ultra-relativistic Euler equations. European Journal of Mechanics, B/Fluids, 2021, 90, 89-98.	2.5	14
35	Positron superthermality effects on the solitonic, dissipative, periodic waveforms for M-Kadomstev-Petviashvili-plasma-equation. Physica Scripta, 2020, 95, 105204.	2.5	13
36	A new structure of solutions to the coupled nonlinear Maccari's systems in plasma physics. AIMS Mathematics, 2022, 7, 8588-8606.	1.6	13

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37	New exact solutions to the dual-core optical fibers. Indian Journal of Physics, 2020, 94, 705-711.	1.8	12
38	The impact of multiplicative noise on the solution of the Chiral nonlinear SchrÃ¶dinger equation. Physica Scripta, 2020, 95, 085222.	2.5	12
39	Closed-form solutions to the new coupled Konnoâ€“Oono equation and the Kaupâ€“Newell model equation in magnetic field with novel statistic application. European Physical Journal Plus, 2021, 136, 1.	2.6	12
40	Higher-order Kerr nonlinear and dispersion effects on fiber optics. Results in Physics, 2021, 26, 104268.	4.1	12
41	Exact solutions of the cubic Boussinesq and the coupled Higgs system. Thermal Science, 2020, 24, 333-342.	1.1	12
42	Soliton solutions for system of ion sound and Langmuir waves. Optical and Quantum Electronics, 2020, 52, 1.	3.3	10
43	Analytical and numerical investigations of the modified Camassaâ€“Holm equation. Pramana - Journal of Physics, 2021, 95, 1.	1.8	10
44	New solutions for the unstable nonlinear SchrÃ¶dinger equation arising in natural science. AIMS Mathematics, 2020, 5, 1893-1912.	1.6	10
45	Characteristics of stochastic Langmuir wave structures in presence of ItÃ´ sense. Results in Physics, 2022, 37, 105435.	4.1	10
46	New super waveforms for modified Korteweg-de-Veries-equation. Results in Physics, 2020, 19, 103420.	4.1	9
47	Wave structures to the three coupled nonlinear Maccariâ€™s systems in plasma physics. Results in Physics, 2022, 33, 105092.	4.1	9
48	A new structure of solutions to the system of ISALWs via stochastic sense. Results in Physics, 2022, 37, 105473.	4.1	9
49	Analytical and Numerical Investigation for the DMBBM Equation. CMES - Computer Modeling in Engineering and Sciences, 2020, 122, 743-756.	1.1	8
50	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
51	On the difference equation x n + 1 = a x n âˆ’ l + b x n âˆ’ k + f (x n âˆ’ l , x n âˆ’ k) $x_{n+1}=ax_{n-l}+bx_{n-k}+f (x_{n-l},x_{n-k})$. Advances in Difference Equations, 2018, 2018, .	3.5	7
52	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
53	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
54	On the difference equation z_m+1 = f(z_m,) Tj ETQq0 0 0 rgBT /Overlock 10 for Science, 2019, 13, 1014-1021.	2.5	6

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55	New solutions for perturbed chiral nonlinear SchrÃ¶dinger equation. AIMS Mathematics, 2022, 7, 12289-12302.	1.6	6
56	New exact solutions for the reaction-diffusion equationÂin mathematical physics. Journal of Ocean Engineering and Science, 2022, , .	4.3	6
57	New Soliton Applications in Earth's Magnetotail Plasma at Critical Densities. Frontiers in Physics, 2020, 8, .	2.1	5
58	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
59	Investigation of new waves in chemical engineering. Physica Scripta, 2021, 96, 075218.	2.5	5
60	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
61	New solitary electrostatic structures for Zakharov model in subsonic limit for solar-wind. Results in Physics, 2022, 37, 105521.	4.1	5
62	Modulations of some physical parameters in a nonlinear SchrÃ¶dinger type equation in fiber communications. Results in Physics, 2022, 38, 105548.	4.1	5
63	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
64	New solitary optical solutions for the NLSE with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.svg" display="inline" id="d1e201"><mml:mi>Î´</mml:mi></mml:math>-potential through Brownian process. Results in Physics, 2022, 40, 105814.	4.1	4
65	Conserved schemes with high pressure ratio, high particle density ratio and self-similar method. European Physical Journal Plus, 2018, 133, 1.	2.6	3
66	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
67	The Deterministic and Stochastic Solutions of the NLEEs in Mathematical Physics. International Journal of Applied and Computational Mathematics, 2019, 5, 1.	1.6	3
68	Fundamental Solutions for the Generalised Third-Order Nonlinear SchrÃ¶dinger Equation. International Journal of Applied and Computational Mathematics, 2020, 6, 1.	1.6	3
69	Traveling solitary wave solutions for the symmetric regularized long-wave equation. Journal of Advances in Mathematics, 2015, 11, 5520-5528.	0.1	3
70	Fundamental solutions for the longâ€“short-wave interaction system. Open Physics, 2020, 18, 1093-1099.	1.7	3
71	The new structures of stochastic solutions for the nonlinear SchrÃ¶dingerâ€™s equations. Journal of Low Frequency Noise Vibration and Active Control, 2022, 41, 1369-1379.	2.9	3
72	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

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73	The nonextensive effects on the supersoliton structure in critical plasma state. Chinese Journal of Physics, 2022, 77, 1987-1996.	3.9	2
74	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
75	On the Ultra Relativistic Euler Equations. Proceedings in Applied Mathematics and Mechanics, 2012, 12, 597-598.	0.2	1
76	A new structure of optical solitons to the (n+1)-NLSE. Results in Physics, 2022, 37, 105535.	4.1	1
77	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
78	A new variation for the relativistic Euler equations. Advances in Difference Equations, 2020, 2020, .	3.5	0
79	Exact solutions of the cubic Boussinesq and the coupled Higgs system. Thermal Science, 2020, 24, 333-342.	1.1	0