Ahmed H Arnous

List of Publications by Year
in descending order

71 papers	2,014 citations	159358 30 h-index	276539 41 g-index
71 all docs	71 docs citations	71 times ranked	410 citing authors

#	Article	IF	Citations
1	Soliton solutions to resonant nonlinear Schrödinger's equation with time-dependent coefficients by trial solution approach. Nonlinear Dynamics, 2015, 81, 277-282.	2.7	153
2	Optical solitons with complex Ginzburg–Landau equation by modified simple equation method. Optik, 2017, 144, 475-480.	1.4	136
3	Soliton solutions to resonant nonlinear schrodinger's equation with time-dependent coefficients by modified simple equation method. Optik, 2016, 127, 11450-11459.	1.4	72
4	Optical solitons and conservation laws of Kudryashov's equation with improved modified extended tanh-function. Optik, 2021, 225, 165406.	1.4	55
5	Dark optical solitons of Biswas-Milovic equation with dual-power law nonlinearity. European Physical Journal Plus, 2015, 130, 1.	1.2	54
6	Optical solitons in nonlinear directional couplers with trial function scheme. Nonlinear Dynamics, 2017, 88, 1891-1915.	2.7	51
7	Dark and singular dispersive optical solitons of Schrödinger–Hirota equation by modified simple equation method. Optik, 2017, 136, 445-450.	1.4	50
8	Optical solitons with Biswas–Milovic equation in magneto-optic waveguide having Kudryashov's law of refractive index. Optik, 2021, 247, 167987.	1.4	50
9	Topological and singular soliton solution to Kundu–Eckhaus equation with extended Kudryashov's method. Optik, 2017, 128, 57-62.	1.4	49
10	Cubic–quartic optical soliton perturbation with complex Ginzburg–Landau equation by the enhanced Kudryashov's method. Chaos, Solitons and Fractals, 2022, 155, 111748.	2.5	49
11	Application of the generalized Kudryashov method to the Eckhaus equation. Nonlinear Analysis: Modelling and Control, 2016, 21, 577-586.	1.1	47
12	Dark and singular optical solitons with spatio-temporal dispersion using modified simple equation method. Optik, 2017, 130, 324-331.	1.4	46
13	Exact wave solutions of the fourth order non-linear partial differential equation of optical fiber pulses by using different methods. Optik, 2021, 230, 166313.	1.4	46
14	Optical solitons in fiber Bragg gratings with cubic–quartic dispersive reflectivity by enhanced Kudryashov's approach. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 422, 127797.	0.9	45
15	Analysis of optical solitons in nonlinear negative-indexed materials with anti-cubic nonlinearity. Optical and Quantum Electronics, 2018, 50, 1.	1.5	43
16	Solitons in Optical Metamaterials with Trial Solution Approach and Bäcklund Transform of Riccati Equation. Journal of Computational and Theoretical Nanoscience, 2015, 12, 5940-5948.	0.4	42
17	Dispersive and propagation of shallow water waves as a higher order nonlinear Boussinesq-like dynamical wave equations. Physica A: Statistical Mechanics and Its Applications, 2020, 537, 122662.	1.2	42
18	Optical solitons and other solutions in birefringent fibers with Biswas-Arshed equation by Jacobi's elliptic function approach. Optik, 2020, 202, 163546.	1.4	42

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19	Dynamics of optical solitons in dual-core fibers via two integration schemes. Superlattices and Microstructures, 2017, 106, 156-162.	1.4	41
20	Exact solutions of the Drinfel'd–Sokolov–Wilson equation using Bäcklund transformation of Riccati equation and trial function approach. Pramana - Journal of Physics, 2016, 86, 1153-1160.	0.9	39
21	Optical soliton perturbation in magneto-optic waveguides. Journal of Nonlinear Optical Physics and Materials, 2018, 27, 1850005.	1.1	39
22	Optical solitons in fiber Bragg gratings via modified simple equation. Optik, 2020, 203, 163886.	1.4	39
23	Nematicons in liquid crystals by modified simple equation method. Nonlinear Dynamics, 2017, 88, 2863-2872.	2.7	36
24	Solitons in nonlinear directional couplers with optical metamaterials. Nonlinear Dynamics, 2017, 87, 427-458.	2.7	35
25	Solitons in Nonlinear Directional Couplers with Optical Metamaterials by Trial Function Scheme. Acta Physica Polonica A, 2017, 132, 1399-1410.	0.2	35
26	Optical solitons to the cubic quartic Bragg gratings with anti-cubic nonlinearity using new approach. Optik, 2022, 251, 168356.	1.4	34
27	Exact and soliton solutions to nonlinear transmission line model. Nonlinear Dynamics, 2017, 87, 767-773.	2.7	33
28	Optical solitons in birefringent fibers with Lakshmanan–Porsezian–Daniel model by modified simple equation. Optik, 2019, 192, 162899.	1.4	33
29	Solitons in birefringent fibers for CGL equation with Hamiltonian perturbations and Kerr law nonlinearity using modified extended direct algebraic method. Communications in Nonlinear Science and Numerical Simulation, 2021, 102, 105945.	1.7	33
30	Optical solitons in birefringent fibers with modified simple equation method. Optik, 2017, 130, 996-1003.	1.4	30
31	Optical solitons with differential group delay for coupled Kundu–Eckhaus equation using extended simplest equation approach. Optik, 2020, 208, 164051.	1.4	30
32	Optical solitons of Biswas–Arshed equation in birefringent fibers using improved modified extended tanh-function method. Optik, 2021, 227, 165385.	1.4	28
33	Optical solitons in birefringent fibers of Kaup-Newell's equation with extended simplest equation method. Physica Scripta, 2020, 95, 115214.	1.2	23
34	Optical soliton perturbation with Kudryashov's generalized law of refractive index and generalized nonlocal laws by improved modified extended tanh method. AEJ - Alexandria Engineering Journal, 2022, 61, 3365-3374.	3.4	22
35	Parallel propagation of dispersive optical solitons by extended trial equation method. Optik, 2017, 144, 565-572.	1.4	19
36	Optical solutions and conservation laws of the Chen–Lee–Liu equation with Kudryashov's refractive index via two integrable techniques. Waves in Random and Complex Media, 0, , 1-17.	1.6	19

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37	Optical soliton perturbation with Kudryashov's generalized nonlinear refractive index. Optik, 2021, 240, 166620.	1.4	18
38	Optical solitons and another solutions for Radhakrishnan-Kundu-Laksmannan equation by using improved modified extended tanh-function method. Optical and Quantum Electronics, 2021, 53, 1.	1.5	18
39	Mathematical methods for construction new soliton solutions of Radhakrishnan-Kundu Lakshmanan equation. AEJ - Alexandria Engineering Journal, 2022, 61, 7111-7120.	3.4	18
40	New solitary waves and exact solutions for the fifth-order nonlinear wave equationÂusing two integration techniques. Journal of Ocean Engineering and Science, 2023, 8, 475-480.	1.7	18
41	Highly dispersive optical solitons and other solutions in birefringent fibers by using improved modified extended tanh-function method. Optik, 2022, 256, 168722.	1.4	18
42	Solitary wave solutions and other solutions for Gilsonâ€"Pickering equation by using the modified extended mapping method. Results in Physics, 2022, 36, 105427.	2.0	18
43	Optical solitons with higher order dispersions in parabolic law medium by trial solution approach. Optik, 2016, 127, 11306-11310.	1.4	17
44	Optical solitons and other solutions for coupled system of nonlinear SchrÃ¶dingerâ€™s equation with parabolic nonlocal law of refractive index by using the improved modified extended tanh function method. Optik, 2022, 254, 168602.	1.4	17
45	Computational extracting solutions for the perturbed Gerdjikov-Ivanov equation by using improved modified extended analytical approach. Journal of Geometry and Physics, 2022, 176, 104514.	0.7	17
46	General Solitons and other solutions for coupled system of nonlinear SchrÃ¶dingerâ€™s equation in magneto-optic waveguides with anti-cubic law nonlinearity by using improved modified extended tanh-function method. Optik, 2022, 251, 168369.	1.4	16
47	Highly dispersive optical solitons and conservation laws in absence of selfâ€"phase modulation with new Kudryashov's approach. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 431, 128001.	0.9	14
48	Optical soliton perturbation of the Gerdjikovâ€"Ivanov equation with spatio-temporal dispersion using a modified extended direct algebraic method. Optik, 2022, 259, 168904.	1.4	14
49	Study on soliton solutions of the longitudinal wave equation and magneto-electro-elastic circular rod dynamical model. International Journal of Modern Physics B, 2021, 35, 2150168.	1.0	13
50	BÃ¤cklund transformation of fractional Riccati equation and its applications to the spaceâ€"time FDEs. Mathematical Methods in the Applied Sciences, 2015, 38, 4673-4678.	1.2	12
51	Solitons dynamics in optical metamaterial with quadraticâ€"cubic nonlinearity using modified extended direct algebraic method. Optik, 2021, 243, 166851.	1.4	12
52	Construction of the Soliton Solutions for the Manakov System by Extended Simplest Equation Method. International Journal of Applied and Computational Mathematics, 2021, 7, 1.	0.9	12
53	Optical solitons having anti-cubic nonlinearity with two integration architectures. Chinese Journal of Physics, 2019, 60, 659-664.	2.0	11
54	Embedded solitons with Ï‡(2) and Ï‡(3) nonlinear susceptibilities by extended trial equation method. Optik, 2018, 154, 1-9.	1.4	10

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55	Solitons and other solutions to (n+1)-dimensional modified Zakharov–Kuznetsov equation by exp-function method. SeMA Journal, 2021, 78, 1-13.	1.0	10
56	Solitary Wave Solutions for Generalized Boiti–Leon–Manna–Pempinelli Equation by Using Improved Simple Equation Method. International Journal of Applied and Computational Mathematics, 2022, 8, 1.	0.9	10
57	Cubic–quartic optical solitons in fiber Bragg gratings with anti-cubic nonlinearity using the modified extended direct algebraic method. Optik, 2022, 264, 169347.	1.4	9
58	Solitons and other solutions to the coupled nonlinear Schrödinger type equations. Nonlinear Engineering, 2017, 6, .	1.4	8
59	Highly dispersive optical soliton perturbation of Kudryashov's arbitrary form having sextic-power law refractive index. International Journal of Modern Physics B, 2021, 35, .	1.0	8
60	Dispersive soliton solutions for the Salerno equation for the nonlinear discrete electrical lattice in the forbidden bandgaps. International Journal of Modern Physics B, 2021, 35, .	1.0	8
61	Optical soliton perturbation with dual forms of simple equation approach: A transparent comparison. Optik, 2021, 231, 166455.	1.4	7
62	Optical solitons with Kudryashov's quintuple power law nonlinearity having nonlinear chromatic dispersion using modified extended direct algebraic method. Optik, 2022, 262, 169235.	1.4	7
63	Solitary waves for the generalized nonlinear wave equation in (3+1) dimensions with gas bubbles using the Nnucci's reduction, enhanced and modified Kudryashov algorithms. Journal of Ocean Engineering and Science, 2022, , .	1.7	7
64	Sequel to "cubic–quartic optical soliton perturbation with complex Ginzburg–Landau equation by the enhanced Kudryashov's method". IET Optoelectronics, 2022, 16, 149-159.	1.8	6
65	Solitons in magneto-optic waveguides for nonlinear Schrödinger's equation with parabolic-nonlocal law of refractive index by using extended simplest equation method. Optical and Quantum Electronics, 2022, 54, .	1.5	6
66	Exact traveling wave solutions for system of nonlinear evolution equations. SpringerPlus, 2016, 5, 663.	1.2	5
67	Constructing new solitary wave solutions to the strain wave model in micro-structured solids. AEJ - Alexandria Engineering Journal, 2022, 61, 11879-11888.	3.4	4
68	Travelling wave solutions for hierarchy of nonlinear evolution equation description propagation pulse in optical fibers. Journal of Optics (India), 2023, 52, 138-144.	0.8	2
69	Structures solitons in birefringent fibers with Kerr and non-local laws of refractive index using improved modified extended tanh-function method. Results in Physics, 2022, 38, 105641.	2.0	2
70	Cubic–quartic solitons in twin-core couplers with optical metamaterials having Kudryashov's sextic power law of arbitrary refractive index by using improved modified extended tanh-function method. Optik, 2022, 265, 169498.	1.4	1
71	Exploring the solitons for multiple-core couplers having optical metamaterials using the modified extended direct algebraic method. Optik, 2022, 267, 169646.	1.4	1