

# Aly Seadawy

## List of Publications by Year in descending order

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469  
papers

18,256  
citations

5896

81  
h-index

27402

106  
g-index

471  
all docs

471  
docs citations

471  
times ranked

1826  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability analysis for Zakharovâ€“Kuznetsov equation of weakly nonlinear ion-acoustic waves in a plasma. Computers and Mathematics With Applications, 2014, 67, 172-180.	2.7	273
2	Modified Kudryashov method via new exact solutions for some conformable fractional differential equations arising in mathematical biology. Chinese Journal of Physics, 2018, 56, 75-85.	3.9	222
3	Stability analysis solutions for nonlinear three-dimensional modified Kortewegâ€“de Vriesâ€“Zakharovâ€“Kuznetsov equation in a magnetized electronâ€“positron plasma. Physica A: Statistical Mechanics and Its Applications, 2016, 455, 44-51.	2.6	210
4	Applications of extended simple equation method on unstable nonlinear SchrÃ¶dinger equations. Optik, 2017, 140, 136-144.	2.9	193
5	Three-dimensional nonlinear modified Zakharovâ€“Kuznetsov equation of ion-acoustic waves in a magnetized plasma. Computers and Mathematics With Applications, 2016, 71, 201-212.	2.7	174
6	Modulation instability analysis for the generalized derivative higher order nonlinear SchrÃ¶dinger equation and its the bright and dark soliton solutions. Journal of Electromagnetic Waves and Applications, 2017, 31, 1353-1362.	1.6	172
7	Analytic approximate solutions for some nonlinear Parabolic dynamical wave equations. Journal of Taibah University for Science, 2020, 14, 346-358.	2.5	172
8	Nonlinear wave solutions of the three-dimensional Zakharovâ€“Kuznetsovâ€“Burgers equation in dusty plasma. Physica A: Statistical Mechanics and Its Applications, 2015, 439, 124-131.	2.6	167
9	Ion acoustic solitary wave solutions of twoâ€“dimensional nonlinear Kadomtsevâ€“Petviashviliâ€“Burgers equation in quantum plasma. Mathematical Methods in the Applied Sciences, 2017, 40, 1598-1607.	2.3	164
10	Application of mathematical methods on the system of dynamical equations for the ion sound and Langmuir waves. Pramana - Journal of Physics, 2019, 93, 1.	1.8	157
11	Stability analysis for two-dimensional ion-acoustic waves in quantum plasmas. Physics of Plasmas, 2014, 21, .	1.9	156
12	Approximation solutions of derivative nonlinear SchrÃ¶dinger equation with computational applications by variational method. European Physical Journal Plus, 2015, 130, 1.	2.6	156
13	The generalized nonlinear higher order of KdV equations from the higher order nonlinear SchrÃ¶dinger equation and its solutions. Optik, 2017, 139, 31-43.	2.9	153
14	Solitary wave solutions of two-dimensional nonlinear Kadomtsevâ€“Petviashvili dynamic equation in dust-acoustic plasmas. Pramana - Journal of Physics, 2017, 89, 1.	1.8	146
15	New exact solutions for the KdV equation with higher order nonlinearity by using the variational method. Computers and Mathematics With Applications, 2011, 62, 3741-3755.	2.7	142
16	Optical solitons and conservation law of Kunduâ€“Eckhaus equation. Optik, 2018, 154, 551-557.	2.9	139
17	Analytical mathematical approaches for the double-chain model of DNA by a novel computational technique. Chaos, Solitons and Fractals, 2021, 144, 110669.	5.1	139
18	Bright and dark solitary wave soliton solutions for the generalized higher order nonlinear SchrÃ¶dinger equation and its stability. Results in Physics, 2017, 7, 43-48.	4.1	138

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19	Exact solutions of a two-dimensional nonlinear Schrödinger equation. Applied Mathematics Letters, 2012, 25, 687-691.	2.7	136
20	Optical solitons with complex Ginzburg-Landau equation by modified simple equation method. Optik, 2017, 144, 475-480.	2.9	136
21	Soliton solutions of the nonlinear Schrödinger equation with the dual power law nonlinearity and resonant nonlinear Schrödinger equation and their modulation instability analysis. Optik, 2017, 145, 79-88.	2.9	134
22	Dispersive solitary wave solutions of Kadomtsev-Petviashvili and modified Kadomtsev-Petviashvili dynamical equations in unmagnetized dust plasma. Results in Physics, 2018, 8, 1216-1222.	4.1	134
23	Nonlinear wave solutions of the Kudryashov-Sinelshchikov dynamical equation in mixtures liquid-gas bubbles under the consideration of heat transfer and viscosity. Journal of Taibah University for Science, 2019, 13, 1060-1072.	2.5	134
24	Exact bright-dark solitary wave solutions of the higher-order cubic-quintic nonlinear Schrödinger equation and its stability. Optik, 2017, 138, 40-49.	2.9	133
25	Two-dimensional interaction of a shear flow with a free surface in a stratified fluid and its solitary-wave solutions via mathematical methods. European Physical Journal Plus, 2017, 132, 1.	2.6	133
26	Variational method for the derivative nonlinear Schrödinger equation with computational applications. Physica Scripta, 2009, 80, 035004.	2.5	130
27	M-shaped rational solitons and their interaction with kink waves in the Fokas-Lenells equation. Physica Scripta, 2019, 94, 055205.	2.5	130
28	Traveling wave solutions for some coupled nonlinear evolution equations. Mathematical and Computer Modelling, 2013, 57, 1371-1379.	2.0	129
29	Travelling-wave solutions of a weakly nonlinear two-dimensional higher-order Kadomtsev-Petviashvili dynamical equation for dispersive shallow-water waves. European Physical Journal Plus, 2017, 132, 1.	2.6	126
30	Chirp-free optical dromions for the presence of higher order spatio-temporal dispersions and absence of self-phase modulation in birefringent fibers. Modern Physics Letters B, 2020, 34, 2050399.	1.9	126
31	Propagation of long internal waves in density stratified ocean for the (2+1)-dimensional nonlinear Nizhnik-Novikov-Vesselov dynamical equation. Results in Physics, 2020, 16, 102838.	4.1	125
32	Travelling wave solutions of Drinfeld-Sokolov-Wilson, Whitham-Broer-Kaup and (2+1)-dimensional Broer-Kaup-Kupershmit equations and their applications. Chinese Journal of Physics, 2017, 55, 780-797.	3.9	124
33	Diverse exact solutions for modified nonlinear Schrödinger equation with conformable fractional derivative. Results in Physics, 2021, 20, 103766.	4.1	124
34	New soliton solution to the longitudinal wave equation in a magneto-electro-elastic circular rod. Results in Physics, 2018, 8, 1158-1167.	4.1	123
35	Variational method for the nonlinear dynamics of an elliptic magnetic stagnation line. European Physical Journal D, 2006, 39, 237-245.	1.3	120
36	Ion acoustic solitary wave solutions of three-dimensional nonlinear extended Zakharov-Kuznetsov dynamical equation in a magnetized two-ion-temperature dusty plasma. Results in Physics, 2016, 6, 590-593.	4.1	117

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37	General soliton solutions for nonlinear dispersive waves in convective type instabilities. <i>Physica Scripta</i> , 2006, 74, 384-393.	2.5	116
38	Applications of extended modified auxiliary equation mapping method for high-order dispersive extended nonlinear Schrödinger equation in nonlinear optics. <i>Modern Physics Letters B</i> , 2019, 33, 1950203.	1.9	116
39	A third-order nonlinear Schrödinger equation: the exact solutions, group-invariant solutions and conservation laws. <i>Journal of Taibah University for Science</i> , 2020, 14, 585-597.	2.5	116
40	Lump and Interaction solutions of a geophysical Kortewegâ€“de Vries equation. <i>Results in Physics</i> , 2020, 19, 103661.	4.1	114
41	Three-Dimensional Weakly Nonlinear Shallow Water Waves Regime and its Traveling Wave Solutions. <i>International Journal of Computational Methods</i> , 2018, 15, 1850017.	1.3	112
42	Mathematical methods via construction of traveling and solitary wave solutions of three coupled system of nonlinear partial differential equations and their applications. <i>Results in Physics</i> , 2018, 11, 1161-1171.	4.1	109
43	Interaction properties of soliton molecules and Painleve analysis for nano bioelectronics transmission model. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	3.3	108
44	Lump, lump-one stripe, multiwave and breather solutions for the Hunterâ€“Saxton equation. <i>Open Physics</i> , 2021, 19, 1-10.	1.7	108
45	Benjaminâ€“Feir instability in nonlinear dispersive waves. <i>Computers and Mathematics With Applications</i> , 2012, 64, 3557-3568.	2.7	106
46	Applications of propagation of long-wave with dissipation and dispersion in nonlinear media via solitary wave solutions of generalized Kadomtsevâ€“Petviashvili modified equal width dynamical equation. <i>Computers and Mathematics With Applications</i> , 2019, 78, 3620-3632.	2.7	104
47	Optical solitons and closed form solutions to the (3+1)-dimensional resonant Schrödinger dynamical wave equation. <i>International Journal of Modern Physics B</i> , 2020, 34, 2050291.	2.0	104
48	Dispersive of propagation wave solutions to unidirectional shallow water wave Dullinâ€“Gottwaldâ€“Holm system and modulation instability analysis. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 4094-4104.	2.3	104
49	The system of equations for the ion sound and Langmuir waves and its new exact solutions. <i>Results in Physics</i> , 2018, 9, 1631-1634.	4.1	103
50	Propagation of kink and anti-kink wave solitons for the nonlinear damped modified Kortewegâ€“de Vries equation arising in ion-acoustic wave in an unmagnetized collisional dusty plasma. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 544, 123560.	2.6	103
51	Conserved quantities along with Painlevé analysis and optical solitons for the nonlinear dynamics of Heisenberg ferromagnetic spin chains model. <i>International Journal of Modern Physics B</i> , 2020, 34, 2050283.	2.0	102
52	Modulation stability and optical soliton solutions of nonlinear Schrödinger equation with higher order dispersion and nonlinear terms and its applications. <i>Superlattices and Microstructures</i> , 2017, 112, 422-434.	3.1	101
53	Construction of solitary wave solutions to the nonlinear modified Korteweg-de Vries dynamical equation in unmagnetized plasma via mathematical methods. <i>Modern Physics Letters A</i> , 2018, 33, 1850183.	1.2	101
54	Some new families of spiky solitary waves of one-dimensional higher-order K-dV equation with power law nonlinearity in plasma physics. <i>Indian Journal of Physics</i> , 2020, 94, 117-126.	1.8	101

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55	Dispersive of propagation wave structures to the dullyin-Gottwald-Holm dynamical equation in a shallow water waves. Chinese Journal of Physics, 2020, 68, 348-364.	3.9	101
56	Fractional solitary wave solutions of the nonlinear higher-order extended KdV equation in a stratified shear flow: Part I. Computers and Mathematics With Applications, 2015, 70, 345-352.	2.7	100
57	Dispersive optical soliton solutions for the hyperbolic and cubic-quintic nonlinear Schrödinger equations via the extended sinh-Gordon equation expansion method. European Physical Journal Plus, 2018, 133, 1.	2.6	100
58	Stability analysis of solitary wave solutions for the fourth-order nonlinear Boussinesq water wave equation. Applied Mathematics and Computation, 2014, 232, 1094-1103.	2.2	99
59	Computational methods and traveling wave solutions for the fourth-order nonlinear Ablowitz-Kaup-Newell-Segur water wave dynamical equation via two methods and its applications. Open Physics, 2018, 16, 219-226.	1.7	97
60	Study of multiple lump and rogue waves to the generalized unstable space time fractional nonlinear Schrödinger equation. Chaos, Solitons and Fractals, 2021, 151, 111251.	5.1	97
61	General Soliton Solutions of ann-Dimensional Complex Ginzburg-Landau Equation. Physica Scripta, 2000, 62, 353-357.	2.5	96
62	Bright-dark solitary wave solutions of generalized higher-order nonlinear Schrödinger equation and its applications in optics. Journal of Electromagnetic Waves and Applications, 2017, 31, 1711-1721.	1.6	96
63	Modulation instability analysis and longitudinal wave propagation in an elastic cylindrical rod modelled with Pochhammer-Chree equation. Physica Scripta, 2021, 96, 045202.	2.5	96
64	The nonlinear dispersive Davey-Stewartson system for surface waves propagation in shallow water and its stability. European Physical Journal Plus, 2016, 131, 1.	2.6	95
65	Elliptic function and solitary wave solutions of the higher-order nonlinear Schrödinger dynamical equation with fourth-order dispersion and cubic-quintic nonlinearity and its stability. European Physical Journal Plus, 2017, 132, 1.	2.6	95
66	Travelling wave solutions of the generalized nonlinear fifth-order KdV water wave equations and its stability. Journal of Taibah University for Science, 2017, 11, 623-633.	2.5	94
67	Nonlinear Rayleigh-Taylor instability of the cylindrical fluid flow with mass and heat transfer. Pramana - Journal of Physics, 2016, 87, 1.	1.8	93
68	Exact soliton solutions of a D-dimensional nonlinear Schrödinger equation with damping and diffusive terms. Zeitschrift Fur Angewandte Mathematik Und Physik, 2011, 62, 839-847.	1.4	92
69	A domain of influence in the Moore-Gibson-Thompson theory of dipolar bodies. Journal of Taibah University for Science, 2020, 14, 653-660.	2.5	92
70	Study on numerical solution of dispersive water wave phenomena by using a reliable modification of variational iteration algorithm. Mathematics and Computers in Simulation, 2020, 177, 13-23.	4.4	92
71	New solitary wave solutions of (3 + 1)-dimensional nonlinear extended Zakharov-Kuznetsov and modified KdV-Zakharov-Kuznetsov equations and their applications. Results in Physics, 2017, 7, 899-909.	4.1	91
72	Stability Analysis of Traveling Wave Solutions for Generalized Coupled Nonlinear KdV Equations. Applied Mathematics and Information Sciences, 2016, 10, 209-214.	0.5	91

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73	Applications of exact traveling wave solutions of Modified Liouville and the Symmetric Regularized Long Wave equations via two new techniques. Results in Physics, 2018, 9, 1403-1410.	4.1	90
74	Analytical wave solutions of the $(2\epsilon^{-1})$ -dimensional first integro-differential Kadomtsev-Petviashvili hierarchy equation by using modified mathematical methods. Results in Physics, 2019, 15, 102775.	4.1	90
75	Some new families of solitary wave solutions of the generalized Schamel equation and their applications in plasma physics. European Physical Journal Plus, 2019, 134, 1.	2.6	90
76	On the multi-waves, interaction and Peregrine-like rational solutions of perturbed Radhakrishnan-Kundu-Lakshmanan equation. Physica Scripta, 2020, 95, 085205.	2.5	90
77	Evaluation of one dimensional fuzzy fractional partial differential equations. AEJ - Alexandria Engineering Journal, 2020, 59, 3347-3353.	6.4	90
78	Traveling wave solutions for the fractional Wazwaz-Benjamin-Bona-Mahony model in arising shallow water waves. Results in Physics, 2021, 20, 103725.	4.1	90
79	Stability analysis of new exact traveling-wave solutions of new coupled KdV and new coupled Zakharov-Kuznetsov systems. European Physical Journal Plus, 2017, 132, 1.	2.6	88
80	More general families of exact solitary wave solutions of the nonlinear Schrödinger equation with their applications in nonlinear optics. European Physical Journal Plus, 2018, 133, 1.	2.6	88
81	Analytical wave structures in plasma physics modelled by Gilson-Pickering equation by two integration norms. Results in Physics, 2021, 23, 103959.	4.1	88
82	Nonlinear Dispersive Rayleigh-Taylor Instabilities in Magnetohydrodynamic Flows. Physica Scripta, 2001, 64, 533-547.	2.5	87
83	Bistable Bright-Dark solitary wave solutions of the $(3 + 1)$ -dimensional Breaking soliton, Boussinesq equation with dual dispersion and modified Korteweg-de Vries-Kadomtsev-Petviashvili equations and their applications. Results in Physics, 2017, 7, 1143-1149.	4.1	86
84	Nonlinear Dispersive Instabilities in Kelvin-Helmholtz Magnetohydrodynamic Flows. Physica Scripta, 2003, 67, 340-349.	2.5	85
85	Travelling wave solutions of generalized coupled Zakharov-Kuznetsov and dispersive long wave equations. Results in Physics, 2016, 6, 1136-1145.	4.1	85
86	Dispersive traveling wave solutions of the Equal-Width and Modified Equal-Width equations via mathematical methods and its applications. Results in Physics, 2018, 9, 313-320.	4.1	85
87	Propagation of nonlinear complex waves for the coupled nonlinear Schrödinger Equations in two core optical fibers. Physica A: Statistical Mechanics and Its Applications, 2019, 529, 121330.	2.6	85
88	Mathematical methods via the nonlinear two-dimensional water waves of Olver dynamical equation and its exact solitary wave solutions. Results in Physics, 2018, 8, 286-291.	4.1	84
89	Kinky breathers, W-shaped and multi-peak solitons interaction in $(2 + 1)$ -dimensional nonlinear Schrödinger equation with Kerr law of nonlinearity. European Physical Journal Plus, 2019, 134, 1.	2.6	84
90	A model of solitary waves in a nonlinear elastic circular rod: Abundant different type exact solutions and conservation laws. Chaos, Solitons and Fractals, 2021, 143, 110486.	5.1	84

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91	Mathematical methods and solitary wave solutions of three-dimensional Zakharov-Kuznetsov-Burgers equation in dusty plasma and its applications. Results in Physics, 2017, 7, 4269-4277.	4.1	83
92	Analytical versus numerical solutions of the nonlinear fractional time-space telegraph equation. Modern Physics Letters B, 2021, 35, 2150324.	1.9	78
93	Numerical solution of Korteweg-de Vries-Burgers equation by the modified variational iteration algorithm-II arising in shallow water waves. Physica Scripta, 2020, 95, 045210.	2.5	76
94	Elliptic and solitary wave solutions for Bogoyavlenskii equations system, couple Boiti-Leon-Pempinelli equations system and Time-fractional Cahn-Allen equation. Results in Physics, 2017, 7, 2325-2333.	4.1	69
95	Lump soliton wave solutions for the (2+1)-dimensional Konopelchenko-Dubrovsky equation and KdV equation. Modern Physics Letters B, 2019, 33, 1950199.	1.9	69
96	Applications of nonlinear longitudinal wave equation in a magneto-electro-elastic circular rod and new solitary wave solutions. Modern Physics Letters B, 2019, 33, 1950210.	1.9	67
97	Abundant numerical and analytical solutions of the generalized formula of Hirota-Satsuma coupled KdV system. Chaos, Solitons and Fractals, 2020, 131, 109473.	5.1	67
98	Dispersive optical soliton solutions for higher order nonlinear Sasa-Satsuma equation in mono mode fibers via new auxiliary equation method. Superlattices and Microstructures, 2018, 113, 346-358.	3.1	65
99	A study of travelling, periodic, quasiperiodic and chaotic structures of perturbed Fokas-Lenells model. Pramana - Journal of Physics, 2021, 95, 1.	1.8	65
100	Analytical and semi-analytical ample solutions of the higher-order nonlinear Schrödinger equation with the non-Kerr nonlinear term. Results in Physics, 2020, 16, 103000.	4.1	64
101	New solitary wave solutions of some nonlinear models and their applications. Advances in Difference Equations, 2018, 2018, .	3.5	61
102	The weakly nonlinear wave propagation theory for the Kelvin-Helmholtz instability in magnetohydrodynamics flows. Chaos, Solitons and Fractals, 2020, 139, 110141.	5.1	58
103	Multi-wave, breather and interaction solutions to (3+1) dimensional Vakhnenko-Parkes equation arising at propagation of high-frequency waves in a relaxing medium. Journal of Taibah University for Science, 2021, 15, 666-678.	2.5	57
104	(N + 1)-dimensional fractional reduced differential transform method for fractional order partial differential equations. Communications in Nonlinear Science and Numerical Simulation, 2017, 48, 509-519.	3.3	56
105	The plethora of explicit solutions of the fractional KS equation through liquid-gas bubbles mix under the thermodynamic conditions via Atangana-Baleanu derivative operator. Advances in Difference Equations, 2020, 2020, .	3.5	55
106	Dispersive optical soliton solutions of the generalized Radhakrishnan-Kundu-Lakshmanan dynamical equation with power law nonlinearity and its applications. Optik, 2018, 164, 54-64.	2.9	54
107	Bifurcations of traveling wave solutions for Dodd-Bullough-Mikhailov equation and coupled Higgs equation and their applications. Chinese Journal of Physics, 2017, 55, 1310-1318.	3.9	53
108	Construction of new solitary wave solutions of generalized Zakharov-Kuznetsov-Benjamin-Bona-Mahony and simplified modified form of Camassa-Holm equations. Open Physics, 2018, 16, 896-909.	1.7	53



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109	Conservation laws, optical molecules, modulation instability and Painlevé analysis for the Chen- Lee-Liu model. Optical and Quantum Electronics, 2021, 53, 1.	3.3	53
110	Explicit Lump Solitary Wave of Certain Interesting (3+1)-Dimensional Waves in Physics via Some Recent Traveling Wave Methods. Entropy, 2019, 21, 397.	2.2	52
111	A variety of soliton solutions for the fractional Wazwaz-Benjamin-Bona-Mahony equations. Results in Physics, 2019, 12, 2234-2241.	4.1	52
112	Mixed lump-solitons, periodic lump and breather soliton solutions for (2 + 1)-dimensional extended Kadomtsev-Petviashvili dynamical equation. International Journal of Modern Physics B, 2019, 33, 1950019.	2.0	51
113	Dispersive solitary wave solutions of nonlinear further modified Korteweg-de Vries dynamical equation in an unmagnetized dusty plasma. Modern Physics Letters A, 2018, 33, 1850217.	1.2	50
114	Optical soliton solutions of nonlinear Schrödinger equation with second order spatiotemporal dispersion and its modulation instability. Optik, 2018, 161, 221-229.	2.9	49
115	Chirp-free optical solitons in fiber Bragg gratings with dispersive reflectivity having polynomial law of nonlinearity. Optik, 2021, 225, 165681.	2.9	49
116	Construction of bright-dark solitons and ion-acoustic solitary wave solutions of dynamical system of nonlinear wave propagation. Modern Physics Letters A, 2019, 34, 1950309.	1.2	48
117	New complex waves of perturbed Schrödinger equation with Kerr law nonlinearity and Kundu-Mukherjee-Naskar equation. Results in Physics, 2020, 16, 102816.	4.1	47
118	Quasi-pinning synchronization and stabilization of fractional order BAM neural networks with delays and discontinuous neuron activations. Chaos, Solitons and Fractals, 2020, 131, 109491.	5.1	46
119	Propagation of isolated waves of coupled nonlinear (2+1)-dimensional Maccari System in plasma physics. Results in Physics, 2020, 17, 102987.	4.1	46
120	Exact wave solutions of the fourth order non-linear partial differential equation of optical fiber pulses by using different methods. Optik, 2021, 230, 166313.	2.9	46
121	Bifurcations of new multi soliton solutions of the van der Waals normal form for fluidized granular matter via six different methods. Results in Physics, 2017, 7, 2028-2035.	4.1	45
122	Structure of optical solitons of resonant Schrödinger equation with quadratic cubic nonlinearity and modulation instability analysis. Physica A: Statistical Mechanics and Its Applications, 2019, 534, 122155.	2.6	45
123	Soliton solutions of the generalised third-order nonlinear Schrödinger equation by two mathematical methods and their stability. Pramana - Journal of Physics, 2019, 93, 1.	1.8	45
124	Bifurcations of solitary wave solutions for the three dimensional Zakharov-Kuznetsov-Burgers equation and Boussinesq equation with dual dispersion. Optik, 2017, 143, 104-114.	2.9	44
125	Optical soliton and rogue wave solutions of the ultra-short femto-second pulses in an optical fiber via two different methods and its applications. Optik, 2018, 158, 434-450.	2.9	44
126	Construction of soliton solutions of the modify unstable nonlinear Schrödinger dynamical equation in fiber optics. Indian Journal of Physics, 2020, 94, 823-832.	1.8	44



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127	Propagation of long-wave with dissipation and dispersion in nonlinear media via generalized Kadomtsev-Petviashvili modified equal width-Burgers equation. Indian Journal of Physics, 2020, 94, 675-687.	1.8	44
128	Multiple soliton solutions of the nonlinear partial differential equations describing the wave propagation in nonlinear lossless electrical transmission lines. Chaos, Solitons and Fractals, 2018, 115, 62-76.	5.1	43
129	Structures of exact and solitary optical solutions for the higher-order nonlinear Schrödinger equation and its applications in mono-mode optical fibers. Modern Physics Letters B, 2019, 33, 1950279.	1.9	43
130	On the numerical investigation of the interaction in plasma between (high & low) frequency of (Langmuir & ion-acoustic) waves. Results in Physics, 2020, 18, 103317.	4.1	43
131	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.	2.6	42
132	Analytical, semi-analytical, and numerical solutions for the Cahn-Allen equation. Advances in Difference Equations, 2020, 2020, .	3.5	42
133	Analytical optical soliton solutions of the Schrödinger-Poisson dynamical system. Results in Physics, 2021, 27, 104369.	4.1	42
134	Bright-dark solitary wave and elliptic function solutions of unstable nonlinear Schrödinger equation and their applications. Optical and Quantum Electronics, 2018, 50, 1.	3.3	41
135	Optical solitary wave and elliptic function solutions of the Fokas-Lenells equation in the presence of perturbation terms and its modulation instability. Physica Scripta, 2019, 94, 105202.	2.5	41
136	Soliton solutions, Painleve analysis and conservation laws for a nonlinear evolution equation. Results in Physics, 2021, 23, 103999.	4.1	41
137	Collision phenomena among lump, periodic and soliton solutions to a (2+1)-dimensional Bogoyavlenskii's breaking soliton model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 397, 127263.	2.1	41
138	Lump, multi-wave, kinky breathers, interactional solutions and stability analysis for general $(2\hat{A}+1)$ -rth dispersionless Dym equation. Results in Physics, 2021, 25, 104160.	4.1	41
139	Optical soliton solutions of unstable nonlinear Schrödinger dynamical equation and stability analysis with applications. Optik, 2018, 157, 597-605.	2.9	40
140	Dynamical behavior of micro-structured solids with conformable time fractional strain wave equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126683.	2.1	40
141	On new computational and numerical solutions of the modified Zakharov-Kuznetsov equation arising in electrical engineering. AEJ - Alexandria Engineering Journal, 2020, 59, 1099-1105.	6.4	40
142	Optical soliton perturbation in magneto-optic waveguides. Journal of Nonlinear Optical Physics and Materials, 2018, 27, 1850005.	1.8	39
143	Solitary Wave Solutions of the Benjamin-BonaMahoney-Burgers Equation with Dual Power-Law Nonlinearity. Applied Mathematics and Information Sciences, 2017, 11, 1347-1351.	0.5	39
144	On some novel optical wave solutions to the paraxial M-fractional nonlinear Schrödinger dynamical equation. Optical and Quantum Electronics, 2021, 53, 1.	3.3	38

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145	Symbolic computation and sensitivity analysis of nonlinear Kudryashov's dynamical equation with applications. <i>Physica Scripta</i> , 2021, 96, 105216.	2.5	38
146	Novel soliton waves of two fluid nonlinear evolutions models in the view of computational scheme. <i>International Journal of Modern Physics B</i> , 2020, 34, 2050096.	2.0	37
147	Weakly nonlinear electron-acoustic waves in the fluid ions propagated via a (3+1)-dimensional generalized Korteweg-de Vries-Zakharov-Kuznetsov equation in plasma physics. <i>Results in Physics</i> , 2022, 33, 105069.	4.1	37
148	Weierstrass and Jacobi elliptic, bell and kink type, lumps, Ma and Kuznetsov breathers with rogue wave solutions to the dissipative nonlinear Schrödinger equation. <i>Chaos, Solitons and Fractals</i> , 2022, 160, 112258.	5.1	37
149	Modified Auxiliary Equation Method versus Three Nonlinear Fractional Biological Models in Present Explicit Wave Solutions. <i>Mathematical and Computational Applications</i> , 2019, 24, 1.	1.3	36
150	Abundant closed form wave solutions to some nonlinear evolution equations in mathematical physics. <i>Journal of Ocean Engineering and Science</i> , 2020, 5, 269-278.	4.3	36
151	Propagation of the nonlinear damped Korteweg-de Vries equation in an unmagnetized collisional dusty plasma via analytical mathematical methods. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 737-748.	2.3	36
152	Highly dispersive Optical solitons to the generalized third-order nonlinear Schrödinger dynamical equation with applications. <i>Optik</i> , 2021, 241, 167109.	2.9	36
153	Modulation stability and dispersive optical soliton solutions of higher order nonlinear Schrödinger equation and its applications in mono-mode optical fibers. <i>Superlattices and Microstructures</i> , 2018, 113, 419-429.	3.1	35
154	Dispersive solitary wave and soliton solutions of the generalized third order nonlinear Schrödinger dynamical equation by modified analytical method. <i>Results in Physics</i> , 2019, 15, 102641.	4.1	34
155	New applications of the two variable $(G^2/G, 1/G)$ -expansion method for closed form traveling wave solutions of integro-differential equations. <i>Journal of Ocean Engineering and Science</i> , 2019, 4, 132-143.	4.3	34
156	Dispersive optical solitary wave solutions of strain wave equation in micro-structured solids and its applications. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 540, 123122.	2.6	34
157	The weakly nonlinear wave propagation of the generalized third-order nonlinear Schrödinger equation and its applications. <i>Waves in Random and Complex Media</i> , 2022, 32, 819-831.	2.7	34
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