

Aliyu Isa Aliyu

List of Publications by Year in descending order

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all docs

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docs citations

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times ranked

881
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of solitons to the coupled sine-Gordon equation in nonlinear optics. International Journal of Modern Physics B, 2021, 35, 2150043.	1.0	2
2	Single and combined optical solitons, and conservation laws in (2+1)-dimensions with Kunduâ€“Mukherjeeâ€“Naskar equation. Chinese Journal of Physics, 2020, 63, 410-418.	2.0	19
3	Approximate solutions to the conformable Rosenauâ€“Hyman equation using the twoâ€“step Adomian decomposition method with Pad Â© approximation. Mathematical Methods in the Applied Sciences, 2020, 43, 7632-7639.	1.2	11
4	Invariant subspaces, exact solutions and classification of conservation laws for a coupled (1+1)-dimensional nonlinear Wu-Zhang equation. Physica Scripta, 2020, 95, 035216.	1.2	4
5	Lump-Type and Bell-Shaped Soliton Solutions of the Time-Dependent Coefficient Kadomtsev-Petviashvili Equation. Frontiers in Physics, 2020, 7, .	1.0	6
6	Bell polynomials and lump-type solutions to the Hirotaâ€“Satsumaâ€“Ito equation under general and positive quadratic polynomial functions. European Physical Journal Plus, 2020, 135, 1.	1.2	18
7	Optical solitons for Triki-Biswas equation by two analytic approaches. AIMS Mathematics, 2020, 5, 1001-1010.	0.7	17
8	Optical solitons to the (n + 1)-dimensional nonlinear SchrÃ¶dingerâ€™s equation with Kerr law and power law nonlinearities using two integration schemes. Modern Physics Letters B, 2019, 33, 1950224.	1.0	14
9	Existence theory and numerical simulation of HIV-1 cure model with new fractional derivative possessing a non-singular kernel. Advances in Difference Equations, 2019, 2019, .	3.5	15
10	Invariant subspace and approximate analytic solutions of a fractional model of convective longitudinal fins in thermal conductivity. European Physical Journal Plus, 2019, 134, 1.	1.2	3
11	Beta derivative applied to dark and singular optical solitons for the resonance perturbed NLSE. European Physical Journal Plus, 2019, 134, 1.	1.2	10
12	Invariant Subspace and Classification of Soliton Solutions of the Coupled Nonlinear Fokas-Liu System. Frontiers in Physics, 2019, 7, .	1.0	4
13	Dark-Bright Optical Soliton and Conserved Vectors to the Biswas-Arshed Equation With Third-Order Dispersions in the Absence of Self-Phase Modulation. Frontiers in Physics, 2019, 7, .	1.0	29
14	Optical Solitons Possessing Beta Derivative of the Chen-Lee-Liu Equation in Optical Fibers. Frontiers in Physics, 2019, 7, .	1.0	68
15	Solitons and complexitons to the (2 + 1)-dimensional Heisenberg ferromagnetic spin chain model. International Journal of Modern Physics B, 2019, 33, 1950368.	1.0	7
16	Dynamics of optical solitons, multipliers and conservation laws to the nonlinear schrÃ¶dinger equation in (2+1)-dimensions with non-Kerr law nonlinearity. Journal of Modern Optics, 2019, 66, 136-142.	0.6	21
17	Symmetry reductions, explicit solutions, convergence analysis and conservation laws via multipliers approach to the Chenâ€“Leeâ€“Liu model in nonlinear optics. Modern Physics Letters B, 2019, 33, 1950035.	1.0	10
18	Grey and black optical solitary waves, and modulation instability analysis to the perturbed nonlinear SchrÃ¶dinger equation with Kerr law nonlinearity. Journal of Modern Optics, 2019, 66, 647-651.	0.6	5

#	ARTICLE	IF	CITATIONS
19	Optical solitons and stability analysis with spatio-temporal dispersion in Kerr and quadric-cubic nonlinear media. <i>Optik</i> , 2019, 178, 923-931.	1.4	18
20	The investigation of soliton solutions and conservation laws to the coupled generalized Schrödinger-Boussinesq system. <i>Waves in Random and Complex Media</i> , 2019, 29, 77-92.	1.6	12
21	Dark-bright optical solitary waves and modulation instability analysis with (2 + 1)-dimensional cubic-quintic nonlinear Schrödinger equation. <i>Waves in Random and Complex Media</i> , 2019, 29, 393-402.	1.6	22
22	Adomian-Padé approximate solutions to the conformable nonlinear heat transfer equation. <i>Thermal Science</i> , 2019, 23, 235-242.	0.5	5
23	Approximate solutions and conservation laws of the periodic base temperature of convective longitudinal fins in thermal conductivity. <i>Thermal Science</i> , 2019, 23, 267-273.	0.5	2
24	Space-time fractional Rosenou-Haynam equation: Lie symmetry analysis, explicit solutions and conservation laws. <i>Advances in Difference Equations</i> , 2018, 2018, .	3.5	33
25	Fractional optical solitons for the conformable space-time nonlinear Schrödinger equation with Kerr law nonlinearity. <i>Optical and Quantum Electronics</i> , 2018, 50, 1.	1.5	17
26	Gray optical soliton, linear stability analysis and conservation laws via multipliers to the cubic nonlinear Schrödinger equation. <i>Optik</i> , 2018, 164, 472-478.	1.4	15
27	Dark and singular optical solitons for the conformable space-time nonlinear Schrödinger equation with Kerr and power law nonlinearity. <i>Optik</i> , 2018, 162, 65-75.	1.4	36
28	Investigation of the logarithmic-KdV equation involving Mittag-Leffler type kernel with Atangana-Baleanu derivative. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 506, 520-531.	1.2	43
29	Lie symmetry analysis and explicit solutions for the time fractional generalized Burgers-Huxley equation. <i>Optical and Quantum Electronics</i> , 2018, 50, 1.	1.5	43
30	Traveling wave solutions and conservation laws for nonlinear evolution equation. <i>Journal of Mathematical Physics</i> , 2018, 59, 023506.	0.5	31
31	Optical solitons for complex Ginzburg-Landau model in nonlinear optics. <i>Optik</i> , 2018, 158, 368-375.	1.4	41
32	Combined optical solitary waves and conservation laws for nonlinear Chen-Lee-Liu equation in optical fibers. <i>Optik</i> , 2018, 158, 297-304.	1.4	36
33	Dark and combined optical solitons, and modulation instability analysis in dispersive metamaterial. <i>Optik</i> , 2018, 157, 484-491.	1.4	15
34	Soliton structures to some time-fractional nonlinear differential equations with conformable derivative. <i>Optical and Quantum Electronics</i> , 2018, 50, 1.	1.5	24
35	Complexiton and solitary wave solutions of the coupled nonlinear Maccari's system using two integration schemes. <i>Modern Physics Letters B</i> , 2018, 32, 1850014.	1.0	29
36	Lie symmetry analysis, explicit solutions and conservation laws for the space-time fractional nonlinear evolution equations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 496, 371-383.	1.2	66

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37	Soliton solutions, stability analysis and conservation laws for the brusselator reaction diffusion model with time- and constant-dependent coefficients. <i>European Physical Journal Plus</i> , 2018, 133, 1.	1.2	31
38	Soliton solutions and stability analysis for some conformable nonlinear partial differential equations in mathematical physics. <i>Optical and Quantum Electronics</i> , 2018, 50, 1.	1.5	40
39	Optical and singular solitary waves to the PNLSE with third order dispersion in Kerr media via two integration approaches. <i>Optik</i> , 2018, 163, 142-151.	1.4	14
40	Optical solitary waves, conservation laws and modulation instability analysis to the nonlinear Schrödinger's equation in compressional dispersive Al ^v n waves. <i>Optik</i> , 2018, 155, 257-266.	1.4	52
41	Finite-time stability of discrete fractional delay systems: Gronwall inequality and stability criterion. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018, 57, 299-308.	1.7	61
42	Time Fractional Third-Order Evolution Equation: Symmetry Analysis, Explicit Solutions, and Conservation Laws. <i>Journal of Computational and Nonlinear Dynamics</i> , 2018, 13, .	0.7	49
43	Optical solitons to the resonance nonlinear Schrödinger equation by Sine-Gordon equation method. <i>Superlattices and Microstructures</i> , 2018, 113, 541-549.	1.4	42
44	Optical solitons, conservation laws and modulation instability analysis for the modified nonlinear Schrödinger's equation for Davydov solitons. <i>Journal of Electromagnetic Waves and Applications</i> , 2018, 32, 858-873.	1.0	21
45	Optical solitons for Biswas-Milovic Model in nonlinear optics by Sine-Gordon equation method. <i>Optik</i> , 2018, 157, 267-274.	1.4	43
46	Lie symmetry analysis, exact solutions and conservation laws for the time fractional Caudrey-Dodd-Gibbon-Sawada-Kotera equation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018, 59, 222-234.	1.7	88
47	Novel optical solitary waves and modulation instability analysis for the coupled nonlinear Schrödinger equation in monomode step-index optical fibers. <i>Superlattices and Microstructures</i> , 2018, 113, 745-753.	1.4	34
48	Time-fractional Cahn-Allen and time-fractional Klein-Gordon equations: Lie symmetry analysis, explicit solutions and convergence analysis. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 493, 94-106.	1.2	91
49	Dispersive optical solitons and modulation instability analysis of Schrödinger-Hirota equation with spatio-temporal dispersion and Kerr law nonlinearity. <i>Superlattices and Microstructures</i> , 2018, 113, 319-327.	1.4	37
50	Two-strain epidemic model involving fractional derivative with Mittag-Leffler kernel. <i>Chaos</i> , 2018, 28, 123121.	1.0	99
51	Optical Solitons and Stability Analysis in Ring-Cavity Fiber System with Carbon Nanotube as Saturable Absorber. <i>Communications in Theoretical Physics</i> , 2018, 70, 511.	1.1	11
52	Efficiency of the new fractional derivative with nonsingular Mittag-Leffler kernel to some nonlinear partial differential equations. <i>Chaos, Solitons and Fractals</i> , 2018, 116, 220-226.	2.5	31
53	Optimal system, nonlinear self-adjointness and conservation laws for generalized shallow water wave equation. <i>Open Physics</i> , 2018, 16, 364-370.	0.8	21
54	A fractional model of vertical transmission and cure of vector-borne diseases pertaining to the Atangana-Baleanu fractional derivatives. <i>Chaos, Solitons and Fractals</i> , 2018, 116, 268-277.	2.5	50

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55	Optical solitary waves and conservation laws to the (2 + 1)-dimensional hyperbolic nonlinear Schrödinger equation. <i>Modern Physics Letters B</i> , 2018, 32, 1850373.	1.0	15
56	Conservation laws, soliton-like and stability analysis for the time fractional dispersive long-wave equation. <i>Advances in Difference Equations</i> , 2018, 2018, .	3.5	22
57	Time fractional third-order variant Boussinesq system: Symmetry analysis, explicit solutions, conservation laws and numerical approximations. <i>European Physical Journal Plus</i> , 2018, 133, 1.	1.2	20
58	Symmetry Analysis, Explicit Solutions, and Conservation Laws of a Sixth-Order Nonlinear Ramani Equation. <i>Symmetry</i> , 2018, 10, 341.	1.1	36
59	Lie symmetry analysis and conservation laws for the time fractional simplified modified Kawahara equation. <i>Open Physics</i> , 2018, 16, 302-310.	0.8	31
60	On the classification of conservation laws and soliton solutions of the long short-wave interaction system. <i>Modern Physics Letters B</i> , 2018, 32, 1850202.	1.0	16
61	Optical Solitary Wave Solutions for the Conformable Perturbed Nonlinear Schrödinger Equation with Power Law Nonlinearity. <i>Journal of Advanced Physics</i> , 2018, 7, 49-57.	0.4	2
62	Solitons and Conservation Laws for the (2+1)-Dimensional Davey-Stewartson Equations with Conformable Derivative. <i>Journal of Advanced Physics</i> , 2018, 7, 167-175.	0.4	3
63	Invariant Subspace and Lie Symmetry Analysis, Exact Solutions and Conservation Laws of a Nonlinear Reaction-Diffusion Murray Equation Arising in Mathematical Biology. <i>Journal of Advanced Physics</i> , 2018, 7, 176-182.	0.4	1
64	Fractional solitons for the nonlinear Pochhammer-Chree equation with conformable derivative. <i>Journal of Coupled Systems and Multiscale Dynamics</i> , 2018, 6, 158-162.	0.2	7
65	On dark optical solitons of the space-time nonlinear Schrödinger equation with fractional complex transform for Kerr and power law nonlinearities. <i>Journal of Coupled Systems and Multiscale Dynamics</i> , 2018, 6, 114-120.	0.2	10
66	An analysis of analytic and approximate solutions of the nonlinear foam-drainage equation and its applications. <i>Journal of Coupled Systems and Multiscale Dynamics</i> , 2018, 6, 176-183.	0.2	1
67	Exact Solutions and Conservation Laws of the Bogoyavlenskii Equation. <i>Acta Physica Polonica A</i> , 2018, 133, 1133-1137.	0.2	39
68	Optical solitons and modulation instability analysis to the quadratic-cubic nonlinear Schrödinger equation. <i>Nonlinear Analysis: Modelling and Control</i> , 2018, 24, 20-33.	1.1	5
69	Optical Solitons for Complex Ginzburg-Landau Model with Beta Derivative in Nonlinear Optics. <i>Journal of Advanced Physics</i> , 2018, 7, 224-229.	0.4	1
70	Single and combined soliton solutions to a system of coupled nonlinear Schrödinger type equations by using two analytical approaches. <i>Journal of Coupled Systems and Multiscale Dynamics</i> , 2018, 6, 128-135.	0.2	0
71	Invariant Investigation and Exact Solutions of Some Differential Equations with Conformable Derivatives. <i>Journal of Advanced Physics</i> , 2018, 7, 336-341.	0.4	0
72	Soliton solutions and conservation laws for lossy nonlinear transmission line equation. <i>Superlattices and Microstructures</i> , 2017, 107, 320-336.	1.4	117

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73	Traveling wave solutions and conservation laws of some fifth-order nonlinear equations. <i>European Physical Journal Plus</i> , 2017, 132, 1.	1.2	34
74	Solitons and conservation laws to the resonance nonlinear Schrödinger's equation with both spatio-temporal and inter-modal dispersions. <i>Optik</i> , 2017, 142, 509-522.	1.4	52
75	Dark optical, singular solitons and conservation laws to the nonlinear Schrödinger's equation with spatio-temporal dispersion. <i>Modern Physics Letters B</i> , 2017, 31, 1750163.	1.0	45
76	New solitary wave solutions and conservation laws to the Kudryashov's Sinelshchikov equation. <i>Optik</i> , 2017, 142, 665-673.	1.4	51
77	Dynamics of solitons to the ill-posed Boussinesq equation. <i>European Physical Journal Plus</i> , 2017, 132, 1.	1.2	60
78	Optical and other solitons for the fourth-order dispersive nonlinear Schrödinger equation with dual-power law nonlinearity. <i>Superlattices and Microstructures</i> , 2017, 105, 183-197.	1.4	90
79	Optical solitons and modulation instability analysis of an integrable model of (2+1)-Dimensional Heisenberg ferromagnetic spin chain equation. <i>Superlattices and Microstructures</i> , 2017, 112, 628-638.	1.4	60
80	Optical solitons and modulation instability analysis with (3 + 1)-dimensional nonlinear Schrödinger equation. <i>Superlattices and Microstructures</i> , 2017, 112, 296-302.	1.4	21
81	Optical solitons, nonlinear self-adjointness and conservation laws for Kundu's Eckhaus equation. <i>Chinese Journal of Physics</i> , 2017, 55, 2341-2355.	2.0	48
82	Dark optical and other soliton solutions for the three different nonlinear Schrödinger equations. <i>Optical and Quantum Electronics</i> , 2017, 49, 1.	1.5	23
83	Optical soliton solutions for the higher-order dispersive cubic-quintic nonlinear Schrödinger equation. <i>Superlattices and Microstructures</i> , 2017, 112, 164-179.	1.4	39
84	Dark optical solitons and conservation laws to the resonance nonlinear Schrödinger's equation with Kerr law nonlinearity. <i>Optik</i> , 2017, 147, 248-255.	1.4	35
85	Optical solitons, explicit solutions and modulation instability analysis with second-order spatio-temporal dispersion. <i>European Physical Journal Plus</i> , 2017, 132, 1.	1.2	11
86	Optical solitons, nonlinear self-adjointness and conservation laws for the cubic nonlinear Schrödinger's equation with repulsive delta potential. <i>Superlattices and Microstructures</i> , 2017, 111, 546-555.	1.4	24
87	Optical solitons to the nonlinear Schrödinger's equation with spatio-temporal dispersion using complex amplitude ansatz. <i>Journal of Modern Optics</i> , 2017, 64, 2273-2280.	0.6	40
88	Lie symmetry analysis, exact solutions and conservation laws for the time fractional modified Zakharov's Kuznetsov equation. <i>Nonlinear Analysis: Modelling and Control</i> , 2017, 22, 861-876.	1.1	53