Dian Chen Lu

List of Publications by Year
in descending order

217	6,454	66315 42	106281 65
papers	citations	h-index	g-index

220	220	220	1696
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Applications of extended simple equation method on unstable nonlinear Schrödinger equations. Optik, 2017, 140, 136-144.	1.4	193
2	Application of mathematical methods on the system of dynamical equations for the ion sound and Langmuir waves. Pramana - Journal of Physics, 2019, 93, 1.	0.9	157
3	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.	1.4	134
4	Exact bright–dark solitary wave solutions of the higher-order cubic–quintic nonlinear Schrödinger equation and its stability. Optik, 2017, 138, 40-49.	1.4	133
5	Travelling wave solutions of Drinfel'd–Sokolov–Wilson, Whitham–Broer–Kaup and (2+1)-dimensional Broer–Kaup–Kupershmit equations and their applications. Chinese Journal of Physics, 2017, 55, 780-797.	2.0	124
6	Mathematical methods via construction of traveling and solitary wave solutions of three coupled system of nonlinear partial differential equations and their applications. Results in Physics, 2018, 11, 1161-1171.	2.0	109
7	Dispersive long wave of nonlinear fractional Wu-Zhang system via a modified auxiliary equation method. AIP Advances, 2019, 9, .	0.6	107
8	Modulation stability and optical soliton solutions of nonlinear Schrödinger equation with higher order dispersion and nonlinear terms and its applications. Superlattices and Microstructures, 2017, 112, 422-434.	1.4	101
9	Construction of solitary wave solutions to the nonlinear modified Kortewege-de Vries dynamical equation in unmagnetized plasma via mathematical methods. Modern Physics Letters A, 2018, 33, 1850183.	0.5	101
10	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.	0.8	97
11	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.	1.0	96
12	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.	1.2	95
13	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.	1.1	94
14	A study of optical wave propagation in the nonautonomous Schrödinger-Hirota equation with power-law nonlinearity. Results in Physics, 2019, 13, 102157.	2.0	94
15	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.	1.2	88
16	Significance of Darcy-Forchheimer Porous Medium in Nanofluid Through Carbon Nanotubes. Communications in Theoretical Physics, 2018, 70, 361.	1.1	87
17	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.	2.0	85
18	MHD flow of Maxwell fluid with nanomaterials due to an exponentially stretching surface. Scientific Reports, 2019, 9, 7312.	1.6	80

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19	New exact traveling wave solutions of biological population model via the extended rational sinh-cosh method and the modified Khater method. Modern Physics Letters B, 2019, 33, 1950338.	1.0	79
20	Analytical versus numerical solutions of the nonlinear fractional timeâ€"space telegraph equation. Modern Physics Letters B, 2021, 35, 2150324.	1.0	78
21	Buoyancy effects on the radiative magneto Micropolar nanofluid flow with double stratification, activation energy and binary chemical reaction. Scientific Reports, 2017, 7, 12901.	1.6	74
22	Transpiration and Viscous Dissipation Effects on Entropy Generation in Hybrid Nanofluid Flow over a Nonlinear Radially Stretching Disk. Entropy, 2018, 20, 668.	1.1	74
23	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.	2.0	69
24	Lump soliton wave solutions for the (2+1)-dimensional Konopelchenkoâ€"Dubrovsky equation and KdV equation. Modern Physics Letters B, 2019, 33, 1950199.	1.0	69
25	Hydrodynamical study of flow in a permeable channel: Application to flat plate dialyzer. International Journal of Hydrogen Energy, 2019, 44, 17041-17047.	3.8	68
26	Analytical and numerical simulations for the kinetics of phase separation in iron (Feâ€"Crâ€"X (X=Mo,) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.2	68
27	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.	1.0	67
28	Abundant numerical and analytical solutions of the generalized formula of Hirota-Satsuma coupled KdV system. Chaos, Solitons and Fractals, 2020, 131, 109473.	2.5	67
29	Analytical and semi-analytical ample solutions of the higher-order nonlinear SchrÃ¶dinger equation with the non-Kerr nonlinear term. Results in Physics, 2020, 16, 103000.	2.0	64
30	Novel computational and accurate numerical solutions of the modified Benjaminâ€"Bonaâ€"Mahony (BBM) equation arising in the optical illusions field. AEJ - Alexandria Engineering Journal, 2021, 60, 1797-1806.	3.4	64
31	The weakly nonlinear wave propagation theory for the Kelvin-Helmholtz instability in magnetohydrodynamics flows. Chaos, Solitons and Fractals, 2020, 139, 110141.	2.5	58
32	(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.	1.7	56
33	The plethora of explicit solutions of the fractional KS equation through liquidâ€"gas bubbles mix under the thermodynamic conditions via Atanganaâ€"Baleanu derivative operator. Advances in Difference Equations, 2020, 2020, .	3.5	55
34	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.	0.8	53
35	Explicit Lump Solitary Wave of Certain Interesting (3+1)-Dimensional Waves in Physics via Some Recent Traveling Wave Methods. Entropy, 2019, 21, 397.	1.1	52
36	Numerical solutions of nonlinear fractional Wuâ€"Zhang system for water surface versus three approximate schemes. Journal of Ocean Engineering and Science, 2019, 4, 144-148.	1.7	51

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37	Optical wave solutions of the higher-order nonlinear SchrÃ¶dinger equation with the non-Kerr nonlinear term via modified Khater method. Modern Physics Letters B, 2020, 34, 2050044.	1.0	51
38	Abundant analytical and numerical solutions of the fractional microbiological densities model in bacteria cell as a result of diffusion mechanisms. Chaos, Solitons and Fractals, 2020, 136, 109824.	2.5	51
39	Upshot of binary chemical reaction and activation energy on carbon nanotubes with Cattaneo-Christov heat flux and buoyancy effects. Physics of Fluids, 2017, 29, .	1.6	50
40	Optical soliton solutions of nonlinear SchrÃ¶dinger equation with second order spatiotemporal dispersion and its modulation instability. Optik, 2018, 161, 221-229.	1.4	49
41	Nonlinear radiation effect on MHD Carreau nanofluid flow over a radially stretching surface with zero mass flux at the surface. Scientific Reports, 2018, 8, 3709.	1.6	48
42	A Numerical Simulation of Silverâ€"Water Nanofluid Flow with Impacts of Newtonian Heating and Homogeneousâ€"Heterogeneous Reactions Past a Nonlinear Stretched Cylinder. Symmetry, 2019, 11, 295.	1.1	47
43	Structure of optical solitons of resonant SchrÃ¶dinger equation with quadratic cubic nonlinearity and modulation instability analysis. Physica A: Statistical Mechanics and Its Applications, 2019, 534, 122155.	1.2	45
44	Soliton solutions of the generalised third-order nonlinear SchrÃ¶dinger equation by two mathematical methods and their stability. Pramana - Journal of Physics, 2019, 93, 1.	0.9	45
45	Construction of soliton solutions of the modify unstable nonlinear SchrÃ¶dinger dynamical equation in fiber optics. Indian Journal of Physics, 2020, 94, 823-832.	0.9	44
46	Propagation of long-wave with dissipation and dispersion in nonlinear media via generalized Kadomtsiveâ€"Petviashvili modified equal width-Burgers equation. Indian Journal of Physics, 2020, 94, 675-687.	0.9	44
47	A numerical treatment of radiative nanofluid 3D flow containing gyrotactic microorganism with anisotropic slip, binary chemical reaction and activation energy. Scientific Reports, 2017, 7, 17008.	1.6	43
48	Structures of exact and solitary optical solutions for the higher-order nonlinear SchrÃ¶dinger equation and its applications in mono-mode optical fibers. Modern Physics Letters B, 2019, 33, 1950279.	1.0	43
49	On the numerical investigation of the interaction in plasma between (high & low) frequency of (Langmuir & ion-acoustic) waves. Results in Physics, 2020, 18, 103317.	2.0	43
50	Analytical, semi-analytical, and numerical solutions for the Cahnâ€"Allen equation. Advances in Difference Equations, 2020, 2020, .	3.5	42
51	Brightâ€"dark solitary wave and elliptic function solutions of unstable nonlinear SchrÃ¶dinger equation and their applications. Optical and Quantum Electronics, 2018, 50, 1.	1.5	41
52	Optical solitary wave and elliptic function solutions of the Fokasâ€"Lenells equation in the presence of perturbation terms and its modulation instability. Physica Scripta, 2019, 94, 105202.	1.2	41
53	Unsteady squeezing carbon nanotubes based nano-liquid flow with Cattaneoâ€"Christov heat flux and homogeneousâ€"heterogeneous reactions. Applied Nanoscience (Switzerland), 2019, 9, 169-178.	1.6	41
54	Optical soliton solutions of unstable nonlinear SchrÃ¶odinger dynamical equation and stability analysis with applications. Optik, 2018, 157, 597-605.	1.4	40

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55	A Jeffrey Fluid Model for a Porous-walled Channel: Application to Flat Plate Dialyzer. Scientific Reports, 2019, 9, 15879.	1.6	40
56	On new computational and numerical solutions of the modified Zakharovâ€"Kuznetsov equation arising in electrical engineering. AEJ - Alexandria Engineering Journal, 2020, 59, 1099-1105.	3.4	40
57	Diverse Soliton wave solutions of for the nonlinear potential Kadomtsevâ€"Petviashvili and Calogeroâ€"Degasperis equations. Results in Physics, 2022, 33, 105116.	2.0	40
58	Solitary Wave Solutions of the Benjamin-BonaMahoney-Burgers Equation with Dual Power-Law Nonlinearity. Applied Mathematics and Information Sciences, 2017, 11, 1347-1351.	0.7	39
59	Analytical and numerical solutions for the current and voltage model on an electrical transmission line with time and distance. Physica Scripta, 2020, 95, 055206.	1.2	37
60	Novel soliton waves of two fluid nonlinear evolutions models in the view of computational scheme. International Journal of Modern Physics B, 2020, 34, 2050096.	1.0	37
61	Sub-10-fs-pulse propagation between analytical and numerical investigation. Results in Physics, 2021, 25, 104133.	2.0	37
62	A numerical treatment of MHD radiative flow of Micropolar nanofluid with homogeneous-heterogeneous reactions past a nonlinear stretched surface. Scientific Reports, 2018, 8, 12431.	1.6	36
63	A Thin Film Flow of Nanofluid Comprising Carbon Nanotubes Influenced by Cattaneo-Christov Heat Flux and Entropy Generation. Coatings, 2019, 9, 296.	1.2	36
64	Modified Auxiliary Equation Method versus Three Nonlinear Fractional Biological Models in Present Explicit Wave Solutions. Mathematical and Computational Applications, 2019, 24, 1.	0.7	36
65	Modulation stability and dispersive optical soliton solutions of higher order nonlinear SchrÃ¶dinger equation and its applications in mono-mode optical fibers. Superlattices and Microstructures, 2018, 113, 419-429.	1.4	35
66	Numerical simulation for homogeneousâ€"heterogeneous reactions and Newtonian heating in the silver-water nanofluid flow past a nonlinear stretched cylinder. Physica Scripta, 2019, 94, 085702.	1.2	35
67	Impact of Nonlinear Thermal Radiation and Entropy Optimization Coatings with Hybrid Nanoliquid Flow Past a Curved Stretched Surface. Coatings, 2018, 8, 430.	1.2	34
68	Numerical Simulation of Darcyâ€"Forchheimer 3D Unsteady Nanofluid Flow Comprising Carbon Nanotubes with Cattaneoâ€"Christov Heat Flux and Velocity and Thermal Slip Conditions. Processes, 2019, 7, 687.	1.3	34
69	The weakly nonlinear wave propagation of the generalized third-order nonlinear SchrÃ¶dinger equation and its applications. Waves in Random and Complex Media, 2022, 32, 819-831.	1.6	34
70	ON EXPLICIT WAVE SOLUTIONS OF THE FRACTIONAL NONLINEAR DSW SYSTEM VIA THE MODIFIED KHATER METHOD. Fractals, 2020, 28, 2040034.	1.8	34
71	New exact solutions for the generalized variable-coefficient Gardner equation with forcing term. Applied Mathematics and Computation, 2012, 219, 2732-2738.	1.4	32
72	Analytical and semiâ€"analytical solutions for timeâ€"fractional Cahnâ€"Allen equation. Mathematical Methods in the Applied Sciences, 2021, 44, 2682-2691.	1.2	32

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73	New explicit exact solutions for the generalized coupled Hirota–Satsuma KdV system. Computers and Mathematics With Applications, 2007, 53, 1181-1190.	1.4	31
74	Analytical and Approximate Solutions for Complex Nonlinear Schrödinger Equation via Generalized Auxiliary Equation and Numerical Schemes. Communications in Theoretical Physics, 2019, 71, 1267.	1.1	31
75	Computational and numerical simulations for the nonlinear fractional Kolmogorov–Petrovskii–Piskunov (FKPP) equation. Physica Scripta, 2020, 95, 055213.	1.2	31
76	Elliptic function solutions, modulation instability and optical solitons analysis of the paraxial wave dynamical model with Kerr media. Optical and Quantum Electronics, 2021, 53, 1.	1.5	31
77	Impact of generalized Fourier's and Fick's laws on MHD 3D second grade nanofluid flow with variable thermal conductivity and convective heat and mass conditions. Physics of Fluids, 2017, 29, 093102.	1.6	30
78	A Numerical Investigation of 3D MHD Rotating Flow with Binary Chemical Reaction, Activation Energy and Non-Fourier Heat Flux. Communications in Theoretical Physics, 2018, 70, 089.	1.1	30
79	HE–ELZAKI METHOD FOR SPATIAL DIFFUSION OF BIOLOGICAL POPULATION. Fractals, 2019, 27, 1950069.	1.8	29
80	Computational and numerical simulations for the deoxyribonucleic acid (DNA) model. Discrete and Continuous Dynamical Systems - Series S, 2021, 14, 3459.	0.6	29
81	Soliton solutions of higher order dispersive cubic-quintic nonlinear Schrödinger equation and its applications. Chinese Journal of Physics, 2020, 67, 405-413.	2.0	28
82	Computational simulations of the couple Boiti–Leon–Pempinelli (BLP) system and the (3+1)-dimensional Kadomtsev–Petviashvili (KP) equation. AIP Advances, 2020, 10, .	0.6	28
83	Abundant analytical solutions of the fractional nonlinear (2 + 1)-dimensional BLMP equation arising in incompressible fluid. International Journal of Modern Physics B, 2020, 34, 2050084.	1.0	28
84	Modulation instability analysis of modify unstable nonlinear schrodinger dynamical equation and its optical soliton solutions. Results in Physics, 2017, 7, 4153-4161.	2.0	27
85	Dispersive solitary wave solutions of new coupled Konno-Oono, Higgs field and Maccari equations and their applications. Journal of King Saud University - Science, 2018, 30, 417-423.	1.6	27
86	Stability Analysis of Solitary Wave Solutions for Coupled and (2+1)-Dimensional Cubic Klein-Gordon Equations and Their Applications. Communications in Theoretical Physics, 2018, 69, 676.	1.1	27
87	Dispersive optical soliton solutions of the higher-order nonlinear Schrödinger dynamical equation via two different methods and its applications. European Physical Journal Plus, 2018, 133, 1.	1.2	27
88	MHD Boundary Layer Flow of Carreau Fluid over a Convectively Heated Bidirectional Sheet with Non-Fourier Heat Flux and Variable Thermal Conductivity. Symmetry, 2019, 11, 618.	1.1	27
89	The shock peakon wave solutions of the general Degasperis–Procesi equation. International Journal of Modern Physics B, 2019, 33, 1950351.	1.0	27
90	Numerical Simulation of 3D Condensation Nanofluid Film Flow with Carbon Nanotubes on an Inclined Rotating Disk. Applied Sciences (Switzerland), 2020, 10, 168.	1.3	27

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91	Abundant Wave Accurate Analytical Solutions of the Fractional Nonlinear Hirota–Satsuma–Shallow Water Wave Equation. Fluids, 2021, 6, 235.	0.8	27
92	New Jacobi elliptic function-like solutions for the general KdV equation with variable coefficients. Mathematical and Computer Modelling, 2012, 55, 1594-1600.	2.0	26
93	Chaos and Relativistic Energy-Momentum of the Nonlinear Time Fractional Duffing Equation. Mathematical and Computational Applications, 2019, 24, 10.	0.7	26
94	New exact solutions for the (2+1)-dimensional generalized Broer–Kaup system. Applied Mathematics and Computation, 2008, 199, 572-580.	1.4	25
95	Impact of Second-Order Slip and Double Stratification Coatings on 3D MHD Williamson Nanofluid Flow with Cattaneo–Christov Heat Flux. Coatings, 2019, 9, 849.	1.2	25
96	Abundant new computational wave solutions of the GM-DP-CH equation via two modified recent computational schemes. Journal of Taibah University for Science, 2020, 14, 1554-1562.	1.1	25
97	Study on the solitary wave solutions of the ionic currents on microtubules equation by using the modified Khater method. Thermal Science, 2019, 23, 2053-2062.	0.5	25
98	ELZAKI PROJECTED DIFFERENTIAL TRANSFORM METHOD FOR FRACTIONAL ORDER SYSTEM OF LINEAR AND NONLINEAR FRACTIONAL PARTIAL DIFFERENTIAL EQUATION. Fractals, 2018, 26, 1850041.	1.8	24
99	Entropy Analysis of 3D Non-Newtonian MHD Nanofluid Flow with Nonlinear Thermal Radiation Past over Exponential Stretched Surface. Entropy, 2018, 20, 930.	1.1	24
100	Accurate demonstrating of the interactions of two long waves with different dispersion relations: Generalized Hirota–Satsuma couple KdV equation. AIP Advances, 2022, 12, .	0.6	24
101	New optical soliton solutions for nonlinear complex fractional Schrödinger equation via new auxiliary equation method and novel $$({G'}/{G})$$ (G ∕ G) -expansion method. Pramana - Journal of Physics, 2018, 90, 1.	0.9	23
102	Optical soliton solutions of the generalized higher-order nonlinear Schrödinger equations and their applications. Optical and Quantum Electronics, 2018, 50, 1.	1.5	23
103	A novel model to analyze Darcy Forchheimer nanofluid flow in a permeable medium with Entropy generation analysis. Journal of Taibah University for Science, 2020, 14, 916-930.	1.1	23
104	The new structure of analytical and semi-analytical solutions of the longitudinal plasma wave equation in a magneto-electro-elastic circular rod. Modern Physics Letters B, 2020, 34, 2050123.	1.0	23
105	Optical soliton structure of the sub-10-fs-pulse propagation model. Journal of Optics (India), 2021, 50, 109-119.	0.8	23
106	New solitary wave and periodic wave solutions for general types of KdV and KdV–Burgers equations. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 77-84.	1.7	22
107	Structure of solitary wave solutions of the nonlinear complex fractional generalized Zakharov dynamical system. Advances in Difference Equations, 2018, 2018, .	3.5	22
108	Two effective computational schemes for a prototype of an excitable system. AIP Advances, 2020, 10, 105120.	0.6	22

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109	Abundant Traveling Wave and Numerical Solutions of Weakly Dispersive Long Waves Model. Symmetry, 2021, 13, 1085.	1.1	22
110	Hydrodynamical Study of Micropolar Fluid in a Porous-Walled Channel: Application to Flat Plate Dialyzer. Symmetry, 2019, 11, 541.	1.1	21
111	Aspects of entropy generation for the non-similar three-dimensional bioconvection flow of nanofluids. AIP Advances, 2020, 10, .	0.6	21
112	Construction of soliton solutions for modified Kawahara equation arising in shallow water waves using novel techniques. International Journal of Modern Physics B, 2020, 34, 2050045.	1.0	21
113	On three-dimensional MHD Oldroyd-B fluid flow with nonlinear thermal radiation and homogeneousâ€"heterogeneous reaction. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	0.8	20
114	Modulation stability analysis and solitary wave solutions of nonlinear higher-order SchrÃ¶dinger dynamical equation with second-order spatiotemporal dispersion. Indian Journal of Physics, 2019, 93, 1041-1049.	0.9	20
115	Unstable novel and accurate soliton wave solutions of the nonlinear biological population model. Arab Journal of Basic and Applied Sciences, 2022, 29, 19-25.	1.0	20
116	Novel explicit breath wave and numerical solutions of an Atangana conformable fractional Lotkaâ€"Volterra model. AEJ - Alexandria Engineering Journal, 2021, 60, 4735-4743.	3.4	19
117	Abundant accurate analytical and semi-analytical solutions of the positive Gardnerâ€"Kadomtsevâ€"Petviashvili equation. Open Physics, 2022, 20, 30-39.	0.8	19
118	New wave solutions for the fractional-order biological population model, time fractional burgers, Drinfelâ€™dâ€"Sokolovâ€"Wilson and system of shallow water wave equations and their applications. European Journal of Computational Mechanics, 2017, 26, 508-524.	0.6	18
119	Complex optical solutions and modulation instability of hyperbolic SchrÃ¶dinger dynamical equation. Results in Physics, 2019, 12, 2091-2097.	2.0	18
120	On complex wave structures related to the nonlinear longâ€"short wave interaction system: Analytical and numerical techniques. AIP Advances, 2020, 10, .	0.6	18
121	New exact traveling wave solutions of the unstable nonlinear SchrÃ¶dinger equations and their applications. Optik, 2021, 226, 165386.	1.4	18
122	Analytical and semi-analytical wave solutions for longitudinal wave equation via modified auxiliary equation method and Adomian decomposition method. Thermal Science, 2019, 23, 1943-1957.	0.5	18
123	New Exact Jacobi Elliptic Function Solutions for the Coupled SchrÃ¶dinger-Boussinesq Equations. Journal of Applied Mathematics, 2013, 2013, 1-7.	0.4	17
124	Structure of optical soliton solutions for the generalized higher-order nonlinear SchrÃ¶dinger equation with light-wave promulgation in an optical fiber. Optical and Quantum Electronics, 2018, 50, 1.	1.5	17
125	Study of soliton solutions of higher-order nonlinear SchrÃ¶dinger dynamical model with derivative non-Kerr nonlinear terms and modulation instability analysis. Results in Physics, 2019, 13, 102305.	2.0	17
126	Computational simulation for the (1 + 1)-dimensional Ito equation arising quantum mechanics and nonlinear optics. Results in Physics, 2020, 19, 103572.	2.0	17

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127	Bifurcations of solitary wave solutions for (two and three)-dimensional nonlinear partial differential equation in quantum and magnetized plasma by using two different methods. Results in Physics, 2018, 9, 142-150.	2.0	16
128	Hydrodynamical Study of Creeping Maxwell Fluid Flow through a Porous Slit with Uniform Reabsorption and Wall Slip. Mathematics, 2020, 8, 1852.	1.1	16
129	Electrothermal transport of third-order fluids regulated by peristaltic pumping. Journal of Biological Physics, 2020, 46, 45-65.	0.7	16
130	Analytical methods via brightâ€"dark solitons and solitary wave solutions of the higher-order nonlinear SchrÃ¶dinger equation with fourth-order dispersion. Modern Physics Letters B, 2019, 33, 1950443.	1.0	15
131	Elliptic function solutions and travelling wave solutions of nonlinear Dodd-Bullough-Mikhailov, two-dimensional Sine-Gordon and coupled SchrÃ¶dinger-KdV dynamical models. Results in Physics, 2018, 10, 995-1005.	2.0	14
132	Analytical Solution for Heat Transfer in Electroosmotic Flow of a Carreau Fluid in a Wavy Microchannel. Applied Sciences (Switzerland), 2019, 9, 4359.	1.3	14
133	A mathematical model of blood flow in a permeable channel: application to flat plate dialyzer. Physica Scripta, 2020, 95, 045202.	1.2	14
134	Soretâ€Dufour effects in electroosmotic biorheological flow of Jeffrey fluid. Heat Transfer, 2020, 49, 2355-2374.	1.7	14
135	A sub-ODE method for generalized Gardner and BBM equation with nonlinear terms of any order. Applied Mathematics and Computation, 2010, 217, 1404-1407.	1.4	13
136	Traveling Wave Solutions of Space-Time Fractional Generalized Fifth-Order KdV Equation. Advances in Mathematical Physics, 2017, 2017, 1-6.	0.4	13
137	Solitary traveling wave solutions of pressure equation of bubbly liquids with examination for viscosity and heat transfer. Results in Physics, 2018, 8, 292-303.	2.0	13
138	Integral Transform Method to Solve the Problem of Porous Slider without Velocity Slip. Symmetry, 2019, 11, 791.	1.1	13
139	NUMERICAL INVESTIGATION OF FRACTIONAL HIV MODEL USING ELZAKI PROJECTED DIFFERENTIAL TRANSFORM METHOD. Fractals, 2018, 26, 1850062.	1.8	12
140	Computational Analysis for Mixed Convective Flows of Viscous Fluids With Nanoparticles. Journal of Thermal Science and Engineering Applications, 2019, 11, .	0.8	12
141	Darcy-Brinkman flow of a viscous fluid through a porous duct: Application in blood filtration process. Journal of the Taiwan Institute of Chemical Engineers, 2020, 117, 223-230.	2.7	12
142	Approximate Simulations for the Non-linear Long-Short Wave Interaction System. Frontiers in Physics, 2020, 7, .	1.0	12
143	On exact and approximate solutions of (2+1)-dimensional Konopelchenko-Dubrovsky equation via modified simplest equation and cubic B-spline schemes. Thermal Science, 2019, 23, 1889-1899.	0.5	12
144	Superabundant novel solutions of the long waves mathematical modeling in shallow water with power-law nonlinearity in ocean beaches via three recent analytical schemes. European Physical Journal Plus, 2021, 136, 1.	1.2	12

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145	Entropy Analysis in Double-Diffusive Convection in Nanofluids through Electro-osmotically Induced Peristaltic Microchannel. Entropy, 2019, 21, 986.	1.1	11
146	Rogue waves generation and interaction of multipeak rational solitons in the system of equations for the ion sound and Langmuir waves. International Journal of Modern Physics B, 2019, 33, 1950277.	1.0	11
147	Ample soliton waves for the crystal lattice formation of the conformable time-fractional (N₁â€Š+â€Š1) Sinh-Gordon equation by the modified Khater method and the PainlevÃ© property. Journal of Intelligent and Fuzzy Systems, 2020, 38, 2745-2752.	0.8	11
148	Investigation of Entropy in Two-Dimensional Peristaltic Flow with Temperature Dependent Viscosity, Thermal and Electrical Conductivity. Entropy, 2020, 22, 200.	1.1	11
149	Optical solitons of the paraxial wave dynamical model in kerr media and its applications in nonlinear optics. International Journal of Modern Physics B, 2020, 34, 2050078.	1.0	11
150	Novel Soliton Solutions of Two-Mode Sawada-Kotera Equation and Its Applications. IEEE Access, 2021, 9, 127368-127381.	2.6	11
151	Numerical solutions of coupled nonlinear fractional KdV equations using Heâ€™s fractional calculus. International Journal of Modern Physics B, 2021, 35, 2150023.	1.0	11
152	Stable novel and accurate solitary wave solutions of an integrable equation: Qiao model. Open Physics, 2021, 19, 742-752.	0.8	11
153	On the Analytical and Numerical Solutions in the Quantum Magnetoplasmas: The Atangana Conformable Derivative (<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML") Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf with Power-Law Nonlinearity. Advances in Mathematical Physics, 2020, 2020, 1-10.	0.4	10
154	Entropy Generation in a Dissipative Nanofluid Flow under the Influence of Magnetic Dissipation and Transpiration. Energies, 2020, 13, 5506.	1.6	10
155	The interaction of W-shaped rational solitons with kink wave for the nonlinear SchrÃ¶dinger equation with anti-cubic nonlinearity. Modern Physics Letters B, 2020, 34, 2050122.	1.0	10
156	Flow over a Needle Moving in a Stream of Dissipative Fluid Having Variable Viscosity and Thermal Conductivity. Arabian Journal for Science and Engineering, 2021, 46, 7295-7302.	1.7	10
157	Solitary wave solutions of Kaupâ€"Newell optical fiber model in mathematical physics and its modulation instability. Modern Physics Letters B, 2020, 34, 2050277.	1.0	9
158	Novel traveling wave solutions and stability analysis of perturbed Kaup-Newell SchrÃ¶dinger dynamical model and its applications*. Chinese Physics B, 2021, 30, 020201.	0.7	9
159	On the computational and numerical solutions of the transmission of nerve impulses of an excitable system (the neuron system). Journal of Intelligent and Fuzzy Systems, 2020, 38, 2603-2610.	0.8	8
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