

Hijaz Ahmad

List of Publications by Year in descending order

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517
papers

10,190
citations

50276

46
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102487

66
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527
all docs

527
docs citations

527
times ranked

2857
citing authors

#	ARTICLE	IF	CITATIONS
1	The approximate and exact solutions of the space- and time-fractional Burgers equations with initial conditions by variational iteration method. <i>Journal of Mathematical Analysis and Applications</i> , 2008, 345, 476-484.	1.0	232
2	NUMERICAL SOLUTION OF TRAVELING WAVES IN CHEMICAL KINETICS: TIME-FRACTIONAL FISHERS EQUATIONS. <i>Fractals</i> , 2022, 30, .	3.7	196
3	A new generalized exponential rational function method to find exact special solutions for the resonance nonlinear Schrödinger equation. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	177
4	Analytic approximate solutions for some nonlinear Parabolic dynamical wave equations. <i>Journal of Taibah University for Science</i> , 2020, 14, 346-358.	2.5	172
5	Fractional modeling of blood ethanol concentration system with real data application. <i>Chaos</i> , 2019, 29, 013143.	2.5	162
6	New Solitary Wave Solutions for Variants of (3+1)-Dimensional Wazwaz-Benjamin-Bona-Mahony Equations. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	131
7	Soliton solutions to the Boussinesq equation through sine-Gordon method and Kudryashov method. <i>Results in Physics</i> , 2021, 25, 104228.	4.1	117
8	Two-strain epidemic model involving fractional derivative with Mittag-Leffler kernel. <i>Chaos</i> , 2018, 28, 123121.	2.5	99
9	The new exact solitary wave solutions and stability analysis for the $(2+1)$ -dimensional Zakharov-Kuznetsov equation. <i>Advances in Difference Equations</i> , 2019, 2019, .	3.5	95
10	Study on numerical solution of dispersive water wave phenomena by using a reliable modification of variational iteration algorithm. <i>Mathematics and Computers in Simulation</i> , 2020, 177, 13-23.	4.4	92
11	Nonlinear dispersion in parabolic law medium and its optical solitons. <i>Results in Physics</i> , 2021, 26, 104411.	4.1	92
12	Bright, dark and singular optical solitons in a power law media with fourth order dispersion. <i>Optical and Quantum Electronics</i> , 2017, 49, 1.	3.3	91
13	Fundamental solutions of anomalous diffusion equations with the decay exponential kernel. <i>Mathematical Methods in the Applied Sciences</i> , 2019, 42, 4054-4060.	2.3	87
14	Variational iteration algorithm-I with an auxiliary parameter for wave-like vibration equations. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2019, 38, 1113-1124.	2.9	86
15	Solution of Multi-Term Time-Fractional PDE Models Arising in Mathematical Biology and Physics by Local Meshless Method. <i>Symmetry</i> , 2020, 12, 1195.	2.2	84
16	A new analyzing technique for nonlinear time fractional Cauchy reaction-diffusion model equations. <i>Results in Physics</i> , 2020, 19, 103462.	4.1	83
17	Unsteady thermal transport flow of Casson nanofluids with generalized Mittag-Leffler kernel of Prabhakar's type. <i>Journal of Materials Research and Technology</i> , 2021, 14, 1292-1300.	5.8	78
18	Numerical solution of Korteweg-de Vries-Burgers equation by the modified variational iteration algorithm-II arising in shallow water waves. <i>Physica Scripta</i> , 2020, 95, 045210.	2.5	76

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37	On three-dimensional variable order time fractional chaotic system with nonsingular kernel. Chaos, Solitons and Fractals, 2020, 133, 109628.	5.1	54
38	New computational results for a prototype of an excitable system. Results in Physics, 2021, 28, 104666.	4.1	53
39	Abundant optical soliton solutions for an integrable mml:math Schrödinger system. Results in Physics, 2021, 25, 104177.	4.1	51
40	Application of local meshless method for the solution of two term time fractional-order multi-dimensional PDE arising in heat and mass transfer. Thermal Science, 2020, 24, 95-105.	1.1	51
41	Transmission dynamics of varicella zoster virus modeled by classical and novel fractional operators using real statistical data. Physica A: Statistical Mechanics and Its Applications, 2019, 534, 122149.	2.6	50
42	The exact solutions of the stochastic Ginzburg-Landau equation. Results in Physics, 2021, 23, 103988.	4.1	50
43	New kinds of analytical solitary wave solutions for ionic currents on microtubules equation via two different techniques. Optical and Quantum Electronics, 2021, 53, 1.	3.3	50
44	Time Fractional Third-Order Evolution Equation: Symmetry Analysis, Explicit Solutions, and Conservation Laws. Journal of Computational and Nonlinear Dynamics, 2018, 13, .	1.2	49
45	Modified Variational Iteration Algorithm-II: Convergence and Applications to Diffusion Models. Complexity, 2020, 2020, 1-14.	1.6	49
46	Numerical Solutions of Coupled Burgers Equations. Axioms, 2019, 8, 119.	1.9	48
47	Numerical simulation of simulate an anomalous solute transport model via local meshless method. AEJ - Alexandria Engineering Journal, 2020, 59, 2827-2838.	6.4	48
48	New Soliton Solutions of Fractional Jaulent-Miodek System with Symmetry Analysis. Symmetry, 2020, 12, 1001.	2.2	48
49	Computational techniques to study the dynamics of generalized unstable nonlinear Schrödinger equation. Journal of Ocean Engineering and Science, 2022, , .	4.3	48
50	On optical solitons of the resonant Schrödinger equation in optical fibers with dual-power law nonlinearity and time-dependent coefficients. Waves in Random and Complex Media, 2015, 25, 334-341.	2.7	46
51	Dark optical, singular solitons and conservation laws to the nonlinear Schrödinger equation with spatio-temporal dispersion. Modern Physics Letters B, 2017, 31, 1750163.	1.9	45
52	A computational model for hybrid nanofluid flow on a rotating surface in the existence of convective condition. Case Studies in Thermal Engineering, 2021, 26, 101089.	5.7	45
53	Breather wave, lump-periodic solutions and some other interaction phenomena to the Caudrey-Dodd-Gibbon equation. European Physical Journal Plus, 2020, 135, 1.	2.6	44
54	Complex traveling-wave and solitons solutions to the Klein-Gordon-Zakharov equations. Results in Physics, 2020, 17, 103127.	4.1	44

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55	Generalized thermoelasticity based on higher-order memory-dependent derivative with time delay. Results in Physics, 2021, 20, 103705.	4.1	44
56	Green synthesis of RGO-ZnO mediated Ocimum basilicum leaves extract nanocomposite for antioxidant, antibacterial, antidiabetic and photocatalytic activity. Journal of Saudi Chemical Society, 2022, 26, 101438.	5.2	44
57	Lie symmetry analysis and explicit solutions for the time fractional generalized Burgers's Huxley equation. Optical and Quantum Electronics, 2018, 50, 1.	3.3	43
58	Green Synthesis of CeO ₂ Nanoparticles from the Abelmoschus esculentus Extract: Evaluation of Antioxidant, Anticancer, Antibacterial, and Wound-Healing Activities. Molecules, 2021, 26, 4659.	3.8	43
59	The coupled nonlinear Schrödinger-type equations. Modern Physics Letters B, 2020, 34, 2050078.	1.9	41
60	New optical solitons for Biswas's Arshed equation with higher order dispersions and full nonlinearity. Optik, 2020, 206, 163332.	2.9	41
61	Soliton solutions and stability analysis for some conformable nonlinear partial differential equations in mathematical physics. Optical and Quantum Electronics, 2018, 50, 1.	3.3	40
62	Optical solitons to the nonlinear Schrödinger's equation with spatio-temporal dispersion using complex amplitude ansatz. Journal of Modern Optics, 2017, 64, 2273-2280.	1.3	40
63	Functionally Graded Piezoelectric Medium Exposed to a Movable Heat Flow Based on a Heat Equation with a Memory-Dependent Derivative. Materials, 2020, 13, 3953.	2.9	39
64	Analytic approximate solutions of diffusion equations arising in oil pollution. Journal of Ocean Engineering and Science, 2021, 6, 62-69.	4.3	39
65	Three-Dimensional Water-Based Magneto-Hydrodynamic Rotating Nanofluid Flow over a Linear Extending Sheet and Heat Transport Analysis: A Numerical Approach. Energies, 2021, 14, 5133.	3.1	39
66	HYPERBOLIC TYPE SOLUTIONS FOR THE COUPLE BOITI-LEON-PEMPINELLI SYSTEM. Facta Universitatis Series Mathematics and Informatics, 0, , 523.	0.1	39
67	New Oscillation Criteria for Advanced Differential Equations of Fourth Order. Mathematics, 2020, 8, 728.	2.2	38
68	Chirped solitons in negative index materials generated by Kerr nonlinearity. Results in Physics, 2020, 17, 103097.	4.1	38
69	Thermodynamic modeling of viscoelastic thin rotating microbeam based on non-Fourier heat conduction. Applied Mathematical Modelling, 2021, 91, 973-988.	4.2	38
70	Dynamics of optical solitons in higher-order Sasa's Satsuma equation. Results in Physics, 2021, 30, 104825.	4.1	38
71	Numerical simulations for fractional variation of (1+ ϵ^{-1})-dimensional Biswas-Milovic equation. Optik, 2018, 166, 77-85.	2.9	37
72	Dispersive optical solitons and modulation instability analysis of Schrödinger-Hirota equation with spatio-temporal dispersion and Kerr law nonlinearity. Superlattices and Microstructures, 2018, 113, 319-327.	3.1	37

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73	Analytical and numerical solutions for the current and voltage model on an electrical transmission line with time and distance. <i>Physica Scripta</i> , 2020, 95, 055206.	2.5	37
74	Symmetry Analysis, Explicit Solutions, and Conservation Laws of a Sixth-Order Nonlinear Ramani Equation. <i>Symmetry</i> , 2018, 10, 341.	2.2	36
75	Lithium-Ion Battery State of Charge (SoC) Estimation with Non-Electrical parameter using Uniform Fiber Bragg Grating (FBG). <i>Journal of Energy Storage</i> , 2021, 40, 102704.	8.1	36
76	New exact solutions for the Kaup-Kupershmidt equation. <i>AIMS Mathematics</i> , 2020, 5, 6726-6738.	1.6	36
77	Mathematical modeling for adsorption process of dye removal nonlinear equation using power law and exponentially decaying kernels. <i>Chaos</i> , 2020, 30, 043106.	2.5	35
78	Gaussian radial basis functions method for linear and nonlinear convection-diffusion models in physical phenomena. <i>Open Physics</i> , 2021, 19, 69-76.	1.7	35
79	New solitary wave solutions to the coupled Maccari's system. <i>Results in Physics</i> , 2021, 21, 103801.	4.1	35
80	Traveling wave solutions and conservation laws of some fifth-order nonlinear equations. <i>European Physical Journal Plus</i> , 2017, 132, 1.	2.6	34
81	W-shape bright and several other solutions to the (3+1)-dimensional nonlinear evolution equations. <i>Modern Physics Letters B</i> , 2021, 35, .	1.9	34
82	Hermite-Hadamard Type Inequalities Involving k-Fractional Operator for (h, m) -Convex Functions. <i>Symmetry</i> , 2021, 13, 1686.	2.2	34
83	Nonautonomous complex wave solutions to the (2+1)-dimensional variable-coefficients nonlinear Chiral Schrödinger equation. <i>Results in Physics</i> , 2020, 19, 103604.	4.1	34
84	On solitons and invariant solutions of the Magneto-electro-elastic circular rod. <i>Waves in Random and Complex Media</i> , 2016, 26, 259-271.	2.7	33
85	New approach for the Fornberg-Whitham type equations. <i>Journal of Computational and Applied Mathematics</i> , 2017, 312, 13-26.	2.0	33
86	Stochastic treatment of the solutions for the resonant nonlinear Schrödinger equation with spatio-temporal dispersions and inter-modal using beta distribution. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	33
87	The Comparative Study for Solving Fractional-Order Fornberg-Whitham Equation via \tilde{I} -Laplace Transform. <i>Symmetry</i> , 2021, 13, 784.	2.2	33
88	An efficient approach for the numerical solution of fifth-order KdV equations. <i>Open Mathematics</i> , 2020, 18, 738-748.	1.0	33
89	Reproducing Kernel Hilbert Space Method for Solving Bratu's Problem. <i>Bulletin of the Malaysian Mathematical Sciences Society</i> , 2015, 38, 271-287.	0.9	32
90	Group preserving scheme and reproducing kernel method for the Poisson-Boltzmann equation for semiconductor devices. <i>Nonlinear Dynamics</i> , 2017, 88, 2817-2829.	5.2	32

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91	On multi-fusion solitons induced by inelastic collision for quasi-periodic propagation with nonlinear refractive index and stability analysis. <i>Modern Physics Letters B</i> , 2018, 32, 1850353.	1.9	32
92	Theory and application for the time fractional Gardner equation with Mittag-Leffler kernel. <i>Journal of Taibah University for Science</i> , 2019, 13, 813-819.	2.5	32
93	Survey of third- and fourth-order dispersions including ellipticity angle in birefringent fibers on W-shaped soliton solutions and modulation instability analysis. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	32
94	Improved ()-Expansion Method for the Space and Time Fractional Foam Drainage and KdV Equations. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-7.	0.7	31
95	Traveling wave solutions and conservation laws for nonlinear evolution equation. <i>Journal of Mathematical Physics</i> , 2018, 59, 023506.	1.1	31
96	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.	2.6	31
97	Lie symmetry analysis and conservation laws for the time fractional simplified modified Kawahara equation. <i>Open Physics</i> , 2018, 16, 302-310.	1.7	31
98	Analytical and Approximate Solutions for Complex Nonlinear Schrödinger Equation via Generalized Auxiliary Equation and Numerical Schemes. <i>Communications in Theoretical Physics</i> , 2019, 71, 1267.	2.5	31
99	Stability analysis of leishmania epidemic model with harmonic mean type incidence rate. <i>European Physical Journal Plus</i> , 2020, 135, 528.	2.6	31
100	Construction of multi-wave complexiton solutions of the Kadomtsev-Petviashvili equation via two efficient analyzing techniques. <i>Results in Physics</i> , 2021, 21, 103775.	4.1	31
101	Improved (G'/G)-Expansion Method for the Time-Fractional Biological Population Model and Cahn-Hilliard Equation. <i>Journal of Computational and Nonlinear Dynamics</i> , 2015, 10, .	1.2	30
102	Studies of Ag/TiO ₂ plasmonics structures integrated in side polished optical fiber used as humidity sensor. <i>Results in Physics</i> , 2018, 10, 308-316.	4.1	30
103	Solutions of a disease model with fractional white noise. <i>Chaos, Solitons and Fractals</i> , 2020, 137, 109840.	5.1	30
104	Exact traveling wave solutions to the higher-order nonlinear Schrödinger equation having Kerr nonlinearity form using two strategic integrations.. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	30
105	Exact solutions of Hirota's Maccari system forced by multiplicative noise in the Itô sense. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2022, 41, 74-84.	2.9	30
106	Applications of Haar Wavelet-Finite Difference Hybrid Method and Its Convergence for Hyperbolic Nonlinear Schrödinger Equation with Energy and Mass Conversion. <i>Energies</i> , 2021, 14, 7831.	3.1	30
107	On numerical solution of Burgers' equation by homotopy analysis method. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 356-360.	2.1	29
108	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.	1.9	29

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109	Analysis of a functionally graded thermopiezoelectric finite rod excited by a moving heat source. Results in Physics, 2020, 19, 103389.	4.1	29
110	Heat transport investigation of engine oil based rotating nanomaterial liquid flow in the existence of partial slip effect. Case Studies in Thermal Engineering, 2021, 28, 101500.	5.7	29
111	Variational iteration algorithm I with an auxiliary parameter for the solution of differential equations of motion for simple and damped mass-spring systems. Noise and Vibration Worldwide, 2020, 51, 12-20.	1.0	28
112	Residual power series algorithm for fractional cancer tumor models. AEJ - Alexandria Engineering Journal, 2020, 59, 1405-1412.	6.4	28
113	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.	2.0	28
114	Numerical solution of time-fractional coupled Korteweg-de Vries and Klein-Gordon equations by local meshless method. Pramana - Journal of Physics, 2021, 95, 1.	1.8	28
115	Moore-Gibson-Thompson thermoelasticity model with temperature-dependent properties for thermo-viscoelastic orthotropic solid cylinder of infinite length under a temperature pulse. Physica Scripta, 2021, 96, 105201.	2.5	28
116	Solution of fractional-order Korteweg-de Vries and Burgers equations utilizing local meshless method. Journal of Ocean Engineering and Science, 2021, , .	4.3	28
117	Travelling wave solutions of generalized Klein-Gordon equations using Jacobi elliptic functions. Nonlinear Dynamics, 2017, 88, 2281-2290.	5.2	27
118	Enhancement of the turbulent convective heat transfer in channels through the baffling technique and oil/multiwalled carbon nanotube nanofluids. Numerical Heat Transfer; Part A: Applications, 2021, 79, 311-351.	2.1	27
119	Numerical simulation of 3-D fractional-order convection-diffusion PDE by a local meshless method. Thermal Science, 2021, 25, 347-358.	1.1	27
120	New optical solitons of conformable resonant nonlinear Schrödinger's equation. Open Physics, 2020, 18, 761-769.	1.7	27
121	Fractional mathematical modeling of malaria disease with treatment & insecticides. Results in Physics, 2022, 34, 105220.	4.1	27
122	A new iterative algorithm on the time-fractional Fisher equation: Residual power series method. Advances in Mechanical Engineering, 2017, 9, 168781401771600.	1.6	26
123	Reproducing kernel method for Fangzhu's oscillator for water collection from air. Mathematical Methods in the Applied Sciences, 0, , .	2.3	26
124	New Ostrowski-Type Fractional Integral Inequalities via Generalized Exponential-Type Convex Functions and Applications. Symmetry, 2021, 13, 1429.	2.2	26
125	New impressive behavior of the exact solutions to the Benjamin-Bona-Mahony-Burgers equation with dual power-law nonlinearity against its numerical solution. Results in Physics, 2021, 29, 104730.	4.1	26
126	The unified technique for the nonlinear time-fractional model with the beta-derivative. Results in Physics, 2021, 29, 104785.	4.1	26

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127	Clout of fractional time order and magnetic coupling coefficients on the soliton and modulation instability gain in the Heisenberg ferromagnetic spin chain. Chaos, Solitons and Fractals, 2021, 151, 111254.	5.1	26
128	Explicit Solution of Telegraph Equation Based on Reproducing Kernel Method. Journal of Function Spaces and Applications, 2012, 2012, 1-23.	0.5	25
129	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.	2.5	25
130	The fractional comparative study of the non-linear directional couplers in non-linear optics. Results in Physics, 2021, 27, 104459.	4.1	25
131	A new method for approximate solutions of some nonlinear equations: Residual power series method. Advances in Mechanical Engineering, 2016, 8, 168781401664458.	1.6	24
132	Soliton structures to some time-fractional nonlinear differential equations with conformable derivative. Optical and Quantum Electronics, 2018, 50, 1.	3.3	24
133	Q-switched fiber laser based on CdS quantum dots as a saturable absorber. Results in Physics, 2020, 16, 103123.	4.1	24
134	A thermal conductivity model for hybrid heat and mass transfer investigation of single and multi-wall carbon nano-tubes flow induced by a spinning body. Case Studies in Thermal Engineering, 2021, 28, 101449.	5.7	24
135	Study on the applications of two analytical methods for the construction of traveling wave solutions of the modified equal width equation. Open Physics, 2020, 18, 1003-1010.	1.7	24
136	Compact and non compact structures of the phi-four equation. Waves in Random and Complex Media, 2017, 27, 28-37.	2.7	23
137	Dark optical and other soliton solutions for the three different nonlinear Schrödinger equations. Optical and Quantum Electronics, 2017, 49, 1.	3.3	23
138	Exact optical solitons of Radhakrishnan-Kundu-Lakshmanan equation with Kerr law nonlinearity. Modern Physics Letters B, 2019, 33, 1950061.	1.9	23
139	New solutions to the fractional perturbed Chen-Lee-Liu equation with a new local fractional derivative. Waves in Random and Complex Media, 0, , 1-36.	2.7	23
140	Heat transportation enrichment and elliptic cylindrical solution of time-dependent flow. Case Studies in Thermal Engineering, 2021, 27, 101248.	5.7	23
141	Nature-based solutions to improve the summer thermal comfort outdoors. Case Studies in Thermal Engineering, 2021, 28, 101399.	5.7	23
142	Impact of Joule heating and multiple slips on a Maxwell nanofluid flow past a slendering surface. Communications in Theoretical Physics, 2022, 74, 015001.	2.5	23
143	Dark-bright optical solitary waves and modulation instability analysis with (2 + 1)-dimensional cubic-quintic nonlinear Schrödinger equation. Waves in Random and Complex Media, 2019, 29, 393-402.	2.7	22
144	Fractional methicillin-resistant Staphylococcus aureus infection model under Caputo operator. Journal of Applied Mathematics and Computing, 2021, 67, 755-783.	2.5	22

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145	Invariance Analysis, Exact Solution and Conservation Laws of (2 + 1) Dim Fractional Kadomtsev-Petviashvili (KP) System. <i>Symmetry</i> , 2021, 13, 477.	2.2	22
146	Response of thermoviscoelastic microbeams affected by the heating of laser pulse under thermal and magnetic fields. <i>Physica Scripta</i> , 2020, 95, 125501.	2.5	22
147	Classification of traveling wave solutions for time-fractional fifth-order KdV-like equation. <i>Waves in Random and Complex Media</i> , 2014, 24, 393-403.	2.7	21
148	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.	1.6	21
149	Optimal system, nonlinear self-adjointness and conservation laws for generalized shallow water wave equation. <i>Open Physics</i> , 2018, 16, 364-370.	1.7	21
150	Meshless Technique for the Solution of Time-Fractional Partial Differential Equations Having Real-World Applications. <i>Journal of Function Spaces</i> , 2020, 2020, 1-17.	0.9	21
151	Analysis of fractional COVID-19 epidemic model under Caputo operator. <i>Mathematical Methods in the Applied Sciences</i> , 2023, 46, 7944-7964.	2.3	21
152	Thermo-viscoelastic fractional model of rotating nanobeams with variable thermal conductivity due to mechanical and thermal loads. <i>Modern Physics Letters B</i> , 2021, 35, 2150297.	1.9	21
153	Analysis of novel fractional COVID-19 model with real-life data application. <i>Results in Physics</i> , 2021, 23, 103968.	4.1	21
154	Impact of a closed space rectangular heat source on natural convective flow through triangular cavity. <i>Results in Physics</i> , 2021, 23, 104011.	4.1	21
155	New wave surfaces and bifurcation of nonlinear periodic waves for Gilson-Pickering equation. <i>Results in Physics</i> , 2021, 24, 104192.	4.1	21
156	Modified Moore-Gibson-Thompson photo-thermoelastic model for a rotating semiconductor half-space subjected to a magnetic field. <i>International Journal of Modern Physics C</i> , 2021, 32, .	1.7	21
157	Dynamics of a fractional order Zika virus model with mutant. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 4821-4836.	6.4	21
158	A Haar wavelet-based scheme for finding the control parameter in nonlinear inverse heat conduction equation. <i>Open Physics</i> , 2021, 19, 722-734.	1.7	21
159	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.	2.6	20
160	A local meshless method for the numerical solution of space-dependent inverse heat problems. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 3066-3079.	2.3	20
161	Hermite-Hadamard Type Inequalities via Generalized Harmonic Exponential Convexity and Applications. <i>Journal of Function Spaces</i> , 2021, 2021, 1-12.	0.9	20
162	Manganese-doped cerium oxide nanocomposite as a therapeutic agent for MCF-7 adenocarcinoma cell line. <i>Saudi Journal of Biological Sciences</i> , 2021, 28, 1233-1238.	3.8	20

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163	Automated image classification of chest X-rays of COVID-19 using deep transfer learning. Results in Physics, 2021, 28, 104529.	4.1	20
164	Some Novel Fractional Integral Inequalities over a New Class of Generalized Convex Function. Fractal and Fractional, 2022, 6, 42.	3.3	20
165	Investigation of pure-cubic optical solitons in nonlinear optics. Optical and Quantum Electronics, 2022, 54, .	3.3	20
166	Particular Solutions of the Confluent Hypergeometric Differential Equation by Using the Nabla Fractional Calculus Operator. Entropy, 2016, 18, 49.	2.2	19
167	On multiple soliton similariton pair solutions, conservation laws via multiplier and stability analysis for the Whitham-Broer-Kaup equations in weakly dispersive media. Mathematical Methods in the Applied Sciences, 2019, 42, 2455-2464.	2.3	19
168	Numerical study of integer-order hyperbolic telegraph model arising in physical and related sciences. European Physical Journal Plus, 2020, 135, 1.	2.6	19
169	Analytical survey of the predator-prey model with fractional derivative order. AIP Advances, 2021, 11, .	1.3	19
170	W-shaped profile and multiple optical soliton structure of the coupled nonlinear Schrödinger equation with the four-wave mixing term and modulation instability spectrum. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 418, 127710.	2.1	19
171	Electrical Circuits RC, LC, and RLC under Generalized Type Non-Local Singular Fractional Operator. Fractal and Fractional, 2021, 5, 9.	3.3	19
172	Generalized thermoviscoelastic model with memory dependent derivatives and multi-phase delay for an excited spherical cavity. Physica Scripta, 2020, 95, 115708.	2.5	19
173	Exact optical solitons of the perturbed nonlinear Schrödinger-Hirota equation with Kerr law nonlinearity in nonlinear fiber optics. Open Physics, 2020, 18, 526-534.	1.7	19
174	Consistent travelling waves solutions to the non-linear time fractional Klein-Gordon and Sine-Gordon equations through extended tanh-function approach. Journal of Taibah University for Science, 2022, 16, 594-607.	2.5	19
175	Chirped solitary waves of the perturbed Chen-Lee-Liu equation and modulation instability in optical monomode fibres. Optical and Quantum Electronics, 2021, 53, 1.	3.3	18
176	Viscoelastic stressed microbeam analysis based on Moore-Gibson-Thompson heat equation and laser excitation resting on Winkler foundation. Journal of Low Frequency Noise Vibration and Active Control, 2022, 41, 118-139.	2.9	18
177	A novel mathematical model for COVID-19 with remedial strategies. Results in Physics, 2021, 27, 104248.	4.1	18
178	New Estimations of Hermite-Hadamard Type Integral Inequalities for Special Functions. Fractal and Fractional, 2021, 5, 144.	3.3	18
179	Properties of some higher-dimensional nonlinear Schrödinger equations. Results in Physics, 2021, 31, 105073.	4.1	18
180	Fractional optical solitons for the conformable space-time nonlinear Schrödinger equation with Kerr law nonlinearity. Optical and Quantum Electronics, 2018, 50, 1.	3.3	17

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181	Symmetry analysis, exact solutions and numerical approximations for the space-time Carleman equation in nonlinear dynamical systems. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	17
182	Existence, uniqueness, and stability of fractional hepatitis B epidemic model. <i>Chaos</i> , 2020, 30, 103104.	2.5	17
183	Synergistic effect of TEMPO-coated TiO ₂ nanorods for PDT applications in MCF-7 cell line model. <i>Saudi Journal of Biological Sciences</i> , 2020, 27, 3199-3207.	3.8	17
184	Miscellaneous optical solitons in magneto-optic waveguides associated to the influence of the cross-phase modulation in instability spectra. <i>Physica Scripta</i> , 2021, 96, 045216.	2.5	17
185	Optical solitons to the nonlinear Schrödinger equation in metamaterials and modulation instability. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	17
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