Khalid K Ali

List of Publications by Year
in descending order

82 papers	1,913 citations	236612 25 h-index	301761 39 g-index
82 all docs	82 docs citations	82 times ranked	718 citing authors

#	Article	IF	Citations
1	The modified extended tanh method with the Riccati equation for solving the space-time fractional EW and MEW equations. Chaos, Solitons and Fractals, 2017, 103, 404-409.	2.5	110
2	Optical soliton solutions to the generalized nonautonomous nonlinear SchrÃ¶dinger equations in optical fibers via the sine-Gordon expansion method. Optik, 2020, 208, 164132.	1.4	100
3	Analytical and numerical study of the DNA dynamics arising in oscillator-chain of Peyrard-Bishop model. Chaos, Solitons and Fractals, 2020, 139, 110089.	2.5	100
4	New optical solitary wave solutions of Fokas-Lenells equation in optical fiber via Sine-Gordon expansion method. AEJ - Alexandria Engineering Journal, 2020, 59, 1191-1196.	3.4	95
5	Constructing Logistic Function-Type Solitary Wave Solutions to Burgers and Sharmaâ€“Tassoâ€“Olver Equations. International Journal of Applied and Computational Mathematics, 2019, 5, 1.	0.9	74
6	Novel hyperbolic and exponential ansatz methods to the fractional fifth-order Kortewegâ€“de Vries equations. Advances in Difference Equations, 2020, 2020, .	3.5	74
7	Biomedical simulations of nanoparticles drug delivery to blood hemodynamics in diseased organs: Synovitis problem. International Communications in Heat and Mass Transfer, 2022, 130, 105756.	2.9	73
8	Numerical solution for generalized nonlinear fractional integro-differential equations with linear functional arguments using Chebyshev series. Advances in Difference Equations, 2020, 2020, .	3.5	64
9	New structures for the space-time fractional simplified MCH and SRLW equations. Chaos, Solitons and Fractals, 2018, 106, 304-309.	2.5	54
10	Analytical and numerical study of the HIVâ€1 infection of CD4⁺ Tâ€cells conformable fractional mathematical model that causes acquired immunodeficiency syndrome with the effect of antiviral drug therapy. Mathematical Methods in the Applied Sciences, 2023, 46, 7654-7670.	1.2	54
11	New solutions for the generalized resonant nonlinear SchrÃ¶dinger equation. Results in Physics, 2022, 33, 105153.	2.0	48
12	Exact solutions of the conformable fractional EW and MEW equations by a new generalized expansion method. Journal of Ocean Engineering and Science, 2020, 5, 223-229.	1.7	46
13	On beta-time fractional biological population model with abundant solitary wave structures. AEJ - Alexandria Engineering Journal, 2022, 61, 1996-2008.	3.4	44
14	New exact solitary wave solutions for the extended (3â€¯+â€¯1)-dimensional Jimbo-Miwa equations. Results in Physics, 2018, 9, 12-16.	2.0	42
15	Soliton solutions to the DNA Peyrardâ€“Bishop equation with beta-derivative via three distinctive approaches. European Physical Journal Plus, 2020, 135, 1.	1.2	42
16	New hyperbolic structures for the conformable time-fractional variant bussinesq equations. Optical and Quantum Electronics, 2018, 50, 1.	1.5	34
17	Analytic solution for the space-time fractional Klein-Gordon and coupled conformable Boussinesq equations. Results in Physics, 2018, 8, 372-378.	2.0	34
18	Analytical optical pulses and bifurcation analysis for the traveling optical pulses of the hyperbolic nonlinear SchrÃ¶dinger equation. Optical and Quantum Electronics, 2021, 53, 1.	1.5	34

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19	The propagation of waves in thin-film ferroelectric materials. Pramana - Journal of Physics, 2019, 93, 1.	0.9	33
20	Novel optical solitons to the perturbed Gerdjikovâ€“Ivanov equation with truncated M-fractional conformable derivative. Optik, 2020, 222, 165418.	1.4	33
21	On short-range pulse propagation described by (2 + 1)-dimensional SchrÃ¶dinger's hyperbolic equation in nonlinear optical fibers. Physica Scripta, 2020, 95, 075203.	1.2	33
22	Electroosmosis forces EOF driven boundary layer flow for a non-Newtonian fluid with planktonic microorganism: Darcy Forchheimer model. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 2534-2559.	1.6	31
23	Optical soliton with Kudryashovâ€™s equation via sine-Gordon expansion and Kudryashov methods. Optical and Quantum Electronics, 2021, 53, 1.	1.5	28
24	Exact solution of the space-time fractional coupled EW and coupled MEW equations. European Physical Journal Plus, 2017, 132, 1.	1.2	27
25	Optical soliton solutions of perturbing time-fractional nonlinear SchrÃ¶dinger equations. Optik, 2020, 209, 164589.	1.4	27
26	On optical soliton solutions of new Hamiltonian amplitude equation via Jacobi elliptic functions. European Physical Journal Plus, 2020, 135, 1.	1.2	26
27	Protracted study on a real physical phenomenon generated by media inhomogeneities. Results in Physics, 2021, 31, 104933.	2.0	25
28	Analytical Investigation of Soliton Solutions to Three Quantum Zakharov-Kuznetsov Equations. Communications in Theoretical Physics, 2018, 70, 405.	1.1	23
29	Numerical simulation of electroosmotic force on micropolar pulsatile bloodstream through aneurysm and stenosis of carotid. Waves in Random and Complex Media, 0, , 1-32.	1.6	22
30	Analytical treatment for the conformable space-time fractional Benney-Luke equation via two reliable methods. International Journal of Physical Research, 2017, 5, 109.	0.5	21
31	Entropy generation and curvature effect on peristaltic thrusting of (Cuâ€“Al₂O₃) hybrid nanofluid in resilient channel: Nonlinear analysis. Heat Transfer, 2021, 50, 7918-7948.	1.7	21
32	N1-soliton solution for SchrÃ¶dinger equation with competing weakly nonlocal and parabolic law nonlinearities. Communications in Theoretical Physics, 2020, 72, 065503.	1.1	19
33	New exact solution of coupled general equal width wave equation using sine-cosine function method. Journal of the Egyptian Mathematical Society, 2017, 25, 350-354.	0.6	18
34	New soliton solutions for resonant nonlinear SchrÃ¶dingerâ€™s equation having full nonlinearity. International Journal of Modern Physics B, 2020, 34, 2050032.	1.0	18
35	Traveling wave solutions and numerical solutions of Gilsonâ€“Pickering equation. Results in Physics, 2021, 28, 104596.	2.0	18
36	Analytical and numerical solutions to the (3Â+Â1)-dimensional Date-Jimbo-Kashiwara-Miwa with time-dependent coefficients. AEJ - Alexandria Engineering Journal, 2021, 60, 5275-5285.	3.4	18

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37	Chebyshev operational matrix for solving fractional order delay-differential equations using spectral collocation method. Arab Journal of Basic and Applied Sciences, 2019, 26, 342-353.	1.0	17
38	Collocation method with quintic b-spline method for solving hirota-satsuma coupled KDV equation. International Journal of Applied Mathematical Research, 2016, 5, 123-131.	0.2	16
39	COLLOCATION METHOD WITH CUBIC TRIGONOMETRIC B-SPLINE ALGORITHM FOR SOLVING COUPLED BURGERSâ€™ EQUATIONS. Far East Journal of Applied Mathematics, 2016, 95, 109-123.	0.1	16
40	Abundant M-fractional optical solitons to the pertubed Gerdjikovâ€“Ivanov equation treating the mathematical nonlinear optics. Optical and Quantum Electronics, 2022, 54, 1.	1.5	16
41	Septic B-spline collocation method for numerical solution of the coupled Burgersâ€™ equations. Arab Journal of Basic and Applied Sciences, 2019, 26, 331-341.	1.0	13
42	Investigating the tangent dispersive solitary wave solutions to the Equal Width and Regularized Long Wave equations. Journal of King Saud University - Science, 2020, 32, 677-681.	1.6	13
43	Analytical and numerical solutions of the <scp>Fitzhughâ€“Nagumo</scp> equation and their multistability behavior. Numerical Methods for Partial Differential Equations, 2021, 37, 7-23.	2.0	13
44	On some new soliton solutions of (3â€‰+â€‰1)-dimensional Boitiâ€“Leonâ€“Mannaâ€“Pempinelli equation using two different methods. Arab Journal of Basic and Applied Sciences, 2021, 28, 234-243.	1.0	13
45	Two efficient methods for solving the generalized regularized long wave equation. Applicable Analysis, 2022, 101, 4721-4742.	0.6	12
46	Exact Solution of Space-Time Fractional Coupled EW and Coupled MEW Equations Using Modified Kudryashov Method. Communications in Theoretical Physics, 2017, 68, 49.	1.1	11
47	Analytical and computational approaches on solitary wave solutions of the generalized equal width equation. Applied Mathematics and Computation, 2020, 371, 124933.	1.4	11
48	A variety of bright and dark optical soliton solutions of an extended higher-order Sasaâ€“Satsuma equation. Optik, 2021, 247, 167938.	1.4	11
49	On the soliton solutions to the space-time fractional simplified MCH equation. Journal of Interdisciplinary Mathematics, 2019, 22, 149-165.	0.4	10
50	Analytical and numerical treatment to the (2+1)-dimensional Date-Jimbo-Kashiwara-Miwa equation. Nonlinear Engineering, 2021, 10, 187-200.	1.4	10
51	New optical soliton solutions for Fokasâ€“Lenells dynamical equation via two various methods. Modern Physics Letters B, 2021, 35, 2150196.	1.0	10
52	COLLOCATION METHOD WITH QUINTIC B-SPLINE METHOD FOR SOLVING COUPLED BURGERSâ€™ EQUATIONS. Far East Journal of Applied Mathematics, 2017, 96, 55-75.	0.1	10
53	Numerical Treatment for the Coupled-BBM System. Journal of Modern Methods in Numerical Mathematics, 2016, 7, 67.	0.3	10
54	The dynamical behavior for a famous class of evolution equationsÂwith double exponential nonlinearities. Journal of Ocean Engineering and Science, 2022, , .	1.7	10

#	ARTICLE	IF	CITATIONS
55	Spectral Tau method for solving general fractional order differential equations with linear functional argument. Journal of the Egyptian Mathematical Society, 2019, 27, .	0.6	9
56	A new structure formulations for cubic B-spline collocation method in three and four-dimensions. Nonlinear Engineering, 2020, 9, 432-448.	1.4	9
57	Some new types of optical solitons to the time-fractional new hamiltonian amplitude equation via extended Sinh-Gorden equation expansion method. Modern Physics Letters B, 2022, 36, .	1.0	9
58	New exact solutions of coupled generalized regularized long wave equations. Journal of the Egyptian Mathematical Society, 2017, 25, 400-405.	0.6	8
59	A collocation approach for multiterm variable-order fractional delay-differential equations using shifted Chebyshev polynomials. AEJ - Alexandria Engineering Journal, 2022, 61, 3511-3526.	3.4	8
60	Computational and analytical solutions to modified Zakharovâ€“Kuznetsov model with stability analysis via efficient techniques. Optical and Quantum Electronics, 2021, 53, 1.	1.5	8
61	On General Form of Fractional Delay Integro-Differential Equations. Arab Journal of Basic and Applied Sciences, 2020, 27, 313-323.	1.0	7
62	On finite series solutions of conformable time-fractional Cahn-Allen equation. Nonlinear Engineering, 2020, 9, 194-200.	1.4	7
63	Finite difference method with different high order approximations for solving complex equation. New Trends in Mathematical Sciences, 2017, 1, 114-127.	0.1	6
64	Investigating the dynamics of Hilfer fractional operator associated with certain electric circuit models. International Journal of Circuit Theory and Applications, 0, , .	1.3	6
65	New soliton solutions of Dual mode Sawada Kotera equationÂusing a new form of modified Kudryashov method and the finite difference method. Journal of Ocean Engineering and Science, 2022, , .	1.7	6
66	New solitary wave solutions of a highly dispersive physical model. Results in Physics, 2020, 17, 103137.	2.0	5
67	On nâ€dimensional quadratic <scp>Bâ€splines</scp>. Numerical Methods for Partial Differential Equations, 2021, 37, 1057-1071.	2.0	5
68	An extensive analytical and numerical study of the generalized <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si8.svg"><mml:mi>q</mml:mi></mml:math>-deformed Sinh-Gordon equation. Journal of Ocean Engineering and Science, 2022, , .	1.7	5
69	New Solitary Wave Solutions of the Spaceâ€“time Fractional Coupled Equal Width Wave Equation (CEWE) and Coupled Modified Equal Width Wave Equation (CMEWE). International Journal of Applied and Computational Mathematics, 2021, 7, 1.	0.9	4
70	A numerical technique for a general form of nonlinear fractional-order differential equations with the linear functional argument. International Journal of Nonlinear Sciences and Numerical Simulation, 2021, 22, 83-91.	0.4	4
71	Bi-Finite Difference Method to Solve Second-Order Nonlinear Hyperbolic Telegraph Equation in Two Dimensions. Mathematical Problems in Engineering, 2022, 2022, 1-10.	0.6	4
72	A new structure to n-dimensional trigonometric cubic B-spline functions for solving n-dimensional partial differential equations. Advances in Difference Equations, 2021, 2021, .	3.5	3

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73	On some new analytical solutions to the (2+1)-dimensional nonlinear electrical transmission line model. European Physical Journal Plus, 2022, 137, 1.	1.2	3
74	Solutions of Fluid Flow Problem over a Generalized Stretching or Shrinking Sheet with Heat Transfer Using Cubic and Quartic B-Spline Collocation Methods. International Journal of Applied and Computational Mathematics, 2022, 8, 1.	0.9	3
75	Optical solitons to the Kunduâ€“Mukherjeeâ€“Naskar equation in (2+1)-dimensional form via two analytical techniques. Journal of Laser Applications, 2022, 34, .	0.8	3
76	Travelling wave solution for some partial differential equations. AIP Conference Proceedings, 2019, , .	0.3	2
77	Highly dispersive optical soliton perturbation with cubicâ€“quinticâ€“septic law via two methods. International Journal of Modern Physics B, 0, , 2150276.	1.0	2
78	N-dimensional quintic B-spline functions for solving n-dimensional partial differential equations. Nonlinear Engineering, 2022, 11, 123-134.	1.4	1
79	An Operational Matrix Technique Based on Chebyshev Polynomials for Solving Mixed Volterra-Fredholm Delay Integro-Differential Equations of Variable-Order. Journal of Function Spaces, 2022, 2022, 1-15.	0.4	1
80	Study of Nonlocal Boundary Value Problem for the Fredholmâ€“Volterra Integro-Differential Equation. Journal of Function Spaces, 2022, 2022, 1-16.	0.4	0
81	An Extended Analytical and Numerical Study the Nonlocal Boundary Value Problem for the Functional Integro-Differential Equation with the Different Conditions. International Journal of Applied and Computational Mathematics, 2022, 8, 1.	0.9	0
82	N-Dimensional quartic B-spline collocation method to solve different types of n-dimensional partial differential equations. Journal of Ocean Engineering and Science, 2022, , .	1.7	0