

Khalid K Ali

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Analytical and numerical study of the HIV-1 infection of CD4 ⁺ T-cells conformable fractional mathematical model that causes acquired immunodeficiency syndrome with the effect of antiviral drug therapy. <i>Mathematical Methods in the Applied Sciences</i> , 2023, 46, 7654-7670. | 1.2 | 54 |
| 2 | Two efficient methods for solving the generalized regularized long wave equation. <i>Applicable Analysis</i> , 2022, 101, 4721-4742. | 0.6 | 12 |
| 3 | On beta-time fractional biological population model with abundant solitary wave structures. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 1996-2008. | 3.4 | 44 |
| 4 | A collocation approach for multiterm variable-order fractional delay-differential equations using shifted Chebyshev polynomials. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 3511-3526. | 3.4 | 8 |
| 5 | Abundant M-fractional optical solitons to the perturbed Gerdjikov-Ivanov equation treating the mathematical nonlinear optics. <i>Optical and Quantum Electronics</i> , 2022, 54, 1. | 1.5 | 16 |
| 6 | Biomedical simulations of nanoparticles drug delivery to blood hemodynamics in diseased organs: Synovitis problem. <i>International Communications in Heat and Mass Transfer</i> , 2022, 130, 105756. | 2.9 | 73 |
| 7 | New solutions for the generalized resonant nonlinear Schrödinger equation. <i>Results in Physics</i> , 2022, 33, 105153. | 2.0 | 48 |
| 8 | Study of Nonlocal Boundary Value Problem for the Fredholm-Volterra Integro-Differential Equation. <i>Journal of Function Spaces</i> , 2022, 2022, 1-16. | 0.4 | 0 |
| 9 | On some new analytical solutions to the (2+1)-dimensional nonlinear electrical transmission line model. <i>European Physical Journal Plus</i> , 2022, 137, 1. | 1.2 | 3 |
| 10 | An Extended Analytical and Numerical Study the Nonlocal Boundary Value Problem for the Functional Integro-Differential Equation with the Different Conditions. <i>International Journal of Applied and Computational Mathematics</i> , 2022, 8, 1. | 0.9 | 0 |
| 11 | Solutions of Fluid Flow Problem over a Generalized Stretching or Shrinking Sheet with Heat Transfer Using Cubic and Quartic B-Spline Collocation Methods. <i>International Journal of Applied and Computational Mathematics</i> , 2022, 8, 1. | 0.9 | 3 |
| 12 | n -dimensional quintic B-spline functions for solving n -dimensional partial differential equations. <i>Nonlinear Engineering</i> , 2022, 11, 123-134. | 1.4 | 1 |
| 13 | An Operational Matrix Technique Based on Chebyshev Polynomials for Solving Mixed Volterra-Fredholm Delay Integro-Differential Equations of Variable-Order. <i>Journal of Function Spaces</i> , 2022, 2022, 1-15. | 0.4 | 1 |
| 14 | New soliton solutions of Dual mode Sawada Kotera equation Using a new form of modified Kudryashov method and the finite difference method. <i>Journal of Ocean Engineering and Science</i> , 2022, , . | 1.7 | 6 |
| 15 | Optical solitons to the Kundu-Mukherjee-Naskar equation in (2+1)-dimensional form via two analytical techniques. <i>Journal of Laser Applications</i> , 2022, 34, . | 0.8 | 3 |
| 16 | The dynamical behavior for a famous class of evolution equations with double exponential nonlinearities. <i>Journal of Ocean Engineering and Science</i> , 2022, , . | 1.7 | 10 |
| 17 | An extensive analytical and numerical study of the generalized q -deformed Sinh-Gordon equation. <i>Journal of Ocean Engineering and Science</i> , 2022, , . | 1.7 | 5 |
| 18 | N-Dimensional quartic B-spline collocation method to solve different types of n -dimensional partial differential equations. <i>Journal of Ocean Engineering and Science</i> , 2022, , . | 1.7 | 0 |

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|----|---|-----|-----------|
| 19 | Bi-Finite Difference Method to Solve Second-Order Nonlinear Hyperbolic Telegraph Equation in Two Dimensions. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-10. | 0.6 | 4 |
| 20 | Some new types of optical solitons to the time-fractional new hamiltonian amplitude equation via extended Sinh-Gorden equation expansion method. <i>Modern Physics Letters B</i> , 2022, 36, . | 1.0 | 9 |
| 21 | Analytical and numerical solutions of the Fitzhugh-Nagumo equation and their multistability behavior. <i>Numerical Methods for Partial Differential Equations</i> , 2021, 37, 7-23. | 2.0 | 13 |
| 22 | On n -dimensional quadratic B-splines. <i>Numerical Methods for Partial Differential Equations</i> , 2021, 37, 1057-1071. | 2.0 | 5 |
| 23 | On some new soliton solutions of $(3+n)$ -dimensional Boiti-Leon-Manna-Pempinelli equation using two different methods. <i>Arab Journal of Basic and Applied Sciences</i> , 2021, 28, 234-243. | 2.0 | 13 |
| 24 | Analytical and numerical treatment to the $(2+1)$ -dimensional Date-Jimbo-Kashiwara-Miwa equation. <i>Nonlinear Engineering</i> , 2021, 10, 187-200. | 1.4 | 10 |
| 25 | Analytical optical pulses and bifurcation analysis for the traveling optical pulses of the hyperbolic nonlinear Schrödinger equation. <i>Optical and Quantum Electronics</i> , 2021, 53, 1. | 1.5 | 34 |
| 26 | New optical soliton solutions for Fokas-Lenells dynamical equation via two various methods. <i>Modern Physics Letters B</i> , 2021, 35, 2150196. | 1.0 | 10 |
| 27 | Electroosmosis forces EOF driven boundary layer flow for a non-Newtonian fluid with planktonic microorganism: Darcy Forchheimer model. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021, 31, 2534-2559. | 1.6 | 31 |
| 28 | Optical soliton with Kudryashov's equation via sine-Gordon expansion and Kudryashov methods. <i>Optical and Quantum Electronics</i> , 2021, 53, 1. | 1.5 | 28 |
| 29 | New Solitary Wave Solutions of the Space-time Fractional Coupled Equal Width Wave Equation (CEWE) and Coupled Modified Equal Width Wave Equation (CMEWE). <i>International Journal of Applied and Computational Mathematics</i> , 2021, 7, 1. | 0.9 | 4 |
| 30 | Entropy generation and curvature effect on peristaltic thrusting of $(Cu_2O)_3$ hybrid nanofluid in resilient channel: Nonlinear analysis. <i>Heat Transfer</i> , 2021, 50, 7918-7948. | 1.7 | 21 |
| 31 | Traveling wave solutions and numerical solutions of Gilson-Pickering equation. <i>Results in Physics</i> , 2021, 28, 104596. | 2.0 | 18 |
| 32 | A variety of bright and dark optical soliton solutions of an extended higher-order Sasa-Satsuma equation. <i>Optik</i> , 2021, 247, 167938. | 1.4 | 11 |
| 33 | Analytical and numerical solutions to the $(3+1)$ -dimensional Date-Jimbo-Kashiwara-Miwa with time-dependent coefficients. <i>A EJ - Alexandria Engineering Journal</i> , 2021, 60, 5275-5285. | 3.4 | 18 |
| 34 | A numerical technique for a general form of nonlinear fractional-order differential equations with the linear functional argument. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2021, 22, 83-91. | 0.4 | 4 |
| 35 | A new structure to n -dimensional trigonometric cubic B-spline functions for solving n -dimensional partial differential equations. <i>Advances in Difference Equations</i> , 2021, 2021, . | 3.5 | 3 |
| 36 | Protracted study on a real physical phenomenon generated by media inhomogeneities. <i>Results in Physics</i> , 2021, 31, 104933. | 2.0 | 25 |

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|----|---|-----|-----------|
| 37 | Computational and analytical solutions to modified Zakharovâ€“Kuznetsov model with stability analysis via efficient techniques. <i>Optical and Quantum Electronics</i> , 2021, 53, 1. | 1.5 | 8 |
| 38 | Investigating the tangent dispersive solitary wave solutions to the Equal Width and Regularized Long Wave equations. <i>Journal of King Saud University - Science</i> , 2020, 32, 677-681. | 1.6 | 13 |
| 39 | Analytical and computational approaches on solitary wave solutions of the generalized equal width equation. <i>Applied Mathematics and Computation</i> , 2020, 371, 124933. | 1.4 | 11 |
| 40 | Optical soliton solutions to the generalized nonautonomous nonlinear SchrÃ¶dinger equations in optical fibers via the sine-Gordon expansion method. <i>Optik</i> , 2020, 208, 164132. | 1.4 | 100 |
| 41 | Novel optical solitons to the perturbed Gerdjikovâ€“Ivanov equation with truncated M-fractional conformable derivative. <i>Optik</i> , 2020, 222, 165418. | 1.4 | 33 |
| 42 | On optical soliton solutions of new Hamiltonian amplitude equation via Jacobi elliptic functions. <i>European Physical Journal Plus</i> , 2020, 135, 1. | 1.2 | 26 |
| 43 | Soliton solutions to the DNA Peyrardâ€“Bishop equation with beta-derivative via three distinctive approaches. <i>European Physical Journal Plus</i> , 2020, 135, 1. | 1.2 | 42 |
| 44 | On General Form of Fractional Delay Integro-Differential Equations. <i>Arab Journal of Basic and Applied Sciences</i> , 2020, 27, 313-323. | 1.0 | 7 |
| 45 | On short-range pulse propagation described by $(2 + 1)$ -dimensional SchrÃ¶dinger's hyperbolic equation in nonlinear optical fibers. <i>Physica Scripta</i> , 2020, 95, 075203. | 1.2 | 33 |
| 46 | N1-soliton solution for SchrÃ¶dinger equation with competing weakly nonlocal and parabolic law nonlinearities. <i>Communications in Theoretical Physics</i> , 2020, 72, 065503. | 1.1 | 19 |
| 47 | New soliton solutions for resonant nonlinear SchrÃ¶dingerâ€™s equation having full nonlinearity. <i>International Journal of Modern Physics B</i> , 2020, 34, 2050032. | 1.0 | 18 |
| 48 | Optical soliton solutions of perturbing time-fractional nonlinear SchrÃ¶dinger equations. <i>Optik</i> , 2020, 209, 164589. | 1.4 | 27 |
| 49 | Analytical and numerical study of the DNA dynamics arising in oscillator-chain of Peyrard-Bishop model. <i>Chaos, Solitons and Fractals</i> , 2020, 139, 110089. | 2.5 | 100 |
| 50 | Exact solutions of the conformable fractional EW and MEW equations by a new generalized expansion method. <i>Journal of Ocean Engineering and Science</i> , 2020, 5, 223-229. | 1.7 | 46 |
| 51 | New optical solitary wave solutions of Fokas-Lenells equation in optical fiber via Sine-Gordon expansion method. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 1191-1196. | 3.4 | 95 |
| 52 | New solitary wave solutions of a highly dispersive physical model. <i>Results in Physics</i> , 2020, 17, 103137. | 2.0 | 5 |
| 53 | Numerical solution for generalized nonlinear fractional integro-differential equations with linear functional arguments using Chebyshev series. <i>Advances in Difference Equations</i> , 2020, 2020, . | 3.5 | 64 |
| 54 | Novel hyperbolic and exponential ansatz methods to the fractional fifth-order Kortewegâ€“de Vries equations. <i>Advances in Difference Equations</i> , 2020, 2020, . | 3.5 | 74 |

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|----|--|-----|-----------|
| 55 | On finite series solutions of conformable time-fractional Cahn-Allen equation. <i>Nonlinear Engineering</i> , 2020, 9, 194-200. | 1.4 | 7 |
| 56 | A new structure formulations for cubic B-spline collocation method in three and four-dimensions. <i>Nonlinear Engineering</i> , 2020, 9, 432-448. | 1.4 | 9 |
| 57 | Chebyshev operational matrix for solving fractional order delay-differential equations using spectral collocation method. <i>Arab Journal of Basic and Applied Sciences</i> , 2019, 26, 342-353. | 1.0 | 17 |
| 58 | Septic B-spline collocation method for numerical solution of the coupled Burgers's equations. <i>Arab Journal of Basic and Applied Sciences</i> , 2019, 26, 331-341. | 1.0 | 13 |
| 59 | Spectral Tau method for solving general fractional order differential equations with linear functional argument. <i>Journal of the Egyptian Mathematical Society</i> , 2019, 27, . | 0.6 | 9 |
| 60 | The propagation of waves in thin-film ferroelectric materials. <i>Pramana - Journal of Physics</i> , 2019, 93, 1. | 0.9 | 33 |
| 61 | On the soliton solutions to the space-time fractional simplified MCH equation. <i>Journal of Interdisciplinary Mathematics</i> , 2019, 22, 149-165. | 0.4 | 10 |
| 62 | Travelling wave solution for some partial differential equations. <i>AIP Conference Proceedings</i> , 2019, , . | 0.3 | 2 |
| 63 | Constructing Logistic Function-Type Solitary Wave Solutions to Burgers and Sharma's-Tasso's Olver Equations. <i>International Journal of Applied and Computational Mathematics</i> , 2019, 5, 1. | 0.9 | 74 |
| 64 | New exact solitary wave solutions for the extended $(3\epsilon^{-1} + \epsilon^{-1})$ -dimensional Jimbo-Miwa equations. <i>Results in Physics</i> , 2018, 9, 12-16. | 2.0 | 42 |
| 65 | New hyperbolic structures for the conformable time-fractional variant bussinesq equations. <i>Optical and Quantum Electronics</i> , 2018, 50, 1. | 1.5 | 34 |
| 66 | Analytic solution for the space-time fractional Klein-Gordon and coupled conformable Boussinesq equations. <i>Results in Physics</i> , 2018, 8, 372-378. | 2.0 | 34 |
| 67 | New structures for the space-time fractional simplified MCH and SRLW equations. <i>Chaos, Solitons and Fractals</i> , 2018, 106, 304-309. | 2.5 | 54 |
| 68 | Analytical Investigation of Soliton Solutions to Three Quantum Zakharov-Kuznetsov Equations. <i>Communications in Theoretical Physics</i> , 2018, 70, 405. | 1.1 | 23 |
| 69 | New exact solution of coupled general equal width wave equation using sine-cosine function method. <i>Journal of the Egyptian Mathematical Society</i> , 2017, 25, 350-354. | 0.6 | 18 |
| 70 | Exact Solution of Space-Time Fractional Coupled EW and Coupled MEW Equations Using Modified Kudryashov Method. <i>Communications in Theoretical Physics</i> , 2017, 68, 49. | 1.1 | 11 |
| 71 | New exact solutions of coupled generalized regularized long wave equations. <i>Journal of the Egyptian Mathematical Society</i> , 2017, 25, 400-405. | 0.6 | 8 |
| 72 | Exact solution of the space-time fractional coupled EW and coupled MEW equations. <i>European Physical Journal Plus</i> , 2017, 132, 1. | 1.2 | 27 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | The modified extended tanh method with the Riccati equation for solving the space-time fractional EW and MEW equations. <i>Chaos, Solitons and Fractals</i> , 2017, 103, 404-409. | 2.5 | 110 |
| 74 | Analytical treatment for the conformable space-time fractional Benney-Luke equation via two reliable methods. <i>International Journal of Physical Research</i> , 2017, 5, 109. | 0.5 | 21 |
| 75 | COLLOCATION METHOD WITH QUINTIC B-SPLINE METHOD FOR SOLVING COUPLED BURGERSâ€™ EQUATIONS. <i>Far East Journal of Applied Mathematics</i> , 2017, 96, 55-75. | 0.1 | 10 |
| 76 | Finite difference method with different high order approximations for solving complex equation. <i>New Trends in Mathematical Sciences</i> , 2017, 1, 114-127. | 0.1 | 6 |
| 77 | Collocation method with quintic b-spline method for solving hirota-satsuma coupled KDV equation. <i>International Journal of Applied Mathematical Research</i> , 2016, 5, 123-131. | 0.2 | 16 |
| 78 | COLLOCATION METHOD WITH CUBIC TRIGONOMETRIC B-SPLINE ALGORITHM FOR SOLVING COUPLED BURGERSâ€™ EQUATIONS. <i>Far East Journal of Applied Mathematics</i> , 2016, 95, 109-123. | 0.1 | 16 |
| 79 | Numerical Treatment for the Coupled-BBM System. <i>Journal of Modern Methods in Numerical Mathematics</i> , 2016, 7, 67. | 0.3 | 10 |
| 80 | Highly dispersive optical soliton perturbation with cubicâ€™quinticâ€™septic law via two methods. <i>International Journal of Modern Physics B</i> , 0, , 2150276. | 1.0 | 2 |
| 81 | Numerical simulation of electroosmotic force on micropolar pulsatile bloodstream through aneurysm and stenosis of carotid. <i>Waves in Random and Complex Media</i> , 0, , 1-32. | 1.6 | 22 |
| 82 | Investigating the dynamics of Hilfer fractional operator associated with certain electric circuit models. <i>International Journal of Circuit Theory and Applications</i> , 0, , . | 1.3 | 6 |