# Mohammed K A Kaabar

List of Publications by Year
in descending order

| 76 papers | 1,133 citations | 430442 18 h-index | 500791 28 g-index |
|---|---|---|---|
| 78 all docs | 78 docs citations | 78 times ranked | 384 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | Investigation of the p-Laplacian nonperiodic nonlinear boundary value problem via generalized Caputo fractional derivatives. Advances in Difference Equations, 2021, 2021, . | 3.5 | 120 |
| 2 | A Generalized Definition of the Fractional Derivative with Applications. Mathematical Problems in Engineering, 2021, 2021, 1-9. | 0.6 | 74 |
| 3 | Condensing Functions and Approximate Endpoint Criterion for the Existence Analysis of Quantum Integro-Difference FBVPs. Symmetry, 2021, 13, 469. | 1.1 | 55 |
| 4 | Deep Learning in Cancer Diagnosis and Prognosis Prediction: A Minireview on Challenges, Recent Trends, and Future Directions. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-28. | 0.7 | 55 |
| 5 | New approximate analytical solutions for the nonlinear fractional Schrödinger equation with second‐order spatio‐temporal dispersion via double Laplace transform method. Mathematical Methods in the Applied Sciences, 2021, 44, 11138-11156. | 1.2 | 42 |
| 6 | A Generalized ML-Hyers-Ulam Stability of Quadratic Fractional Integral Equation. Nonlinear Engineering, 2021, 10, 414-427. | 1.4 | 37 |
| 7 | Mathematical modeling of COVID-19 pandemic in India using Caputo-Fabrizio fractional derivative. Computers in Biology and Medicine, 2022, 145, 105518. | 3.9 | 34 |
| 8 | Monotone Iterative Method for $\hat{\Gamma}$-Caputo Fractional Differential Equation with Nonlinear Boundary Conditions. Fractal and Fractional, 2021, 5, 81. | 1.6 | 30 |
| 9 | Dynamics of the worm transmission in wireless sensor network in the framework of fractional derivatives. Mathematical Methods in the Applied Sciences, 2022, 45, 4278-4294. | 1.2 | 30 |
| 10 | The Existence, Uniqueness, and Stability Analysis of the Discrete Fractional Three-Point Boundary Value Problem for the Elastic Beam Equation. Symmetry, 2021, 13, 789. | 1.1 | 25 |
| 11 | New results on complex conformable integral. AIMS Mathematics, 2020, 5, 7695-7710. | 0.7 | 25 |
| 12 | On some novel solution solutions to the generalized Schrödinger-Boussinesq equations for the interaction between complex short wave and real long wave envelope. Journal of Ocean Engineering and Science, 2022, 7, 353-362. | 1.7 | 23 |
| 13 | Exploiting Feature Selection and Neural Network Techniques for Identification of Focal and Nonfocal EEG Signals in TQWT Domain. Journal of Healthcare Engineering, 2021, 2021, 1-24. | 1.1 | 22 |
| 14 | Existence of Solutions for a Singular Fractional q-Differential Equations under Riemann–Liouville Integral Boundary Condition. Symmetry, 2021, 13, 1235. | 1.1 | 20 |
| 15 | A fractional differential equation with multi-point strip boundary condition involving the Caputo fractional derivative and its Hyers–Ulam stability. Boundary Value Problems, 2021, 2021, . | 0.3 | 20 |
| 16 | Reduced-Complexity LDPC Decoding for Next-Generation IoT Networks. Wireless Communications and Mobile Computing, 2021, 2021, 1-10. | 0.8 | 20 |
| 17 | Chaotic Behavior Analysis of a New Incommensurate Fractional-Order Hopfield Neural Network System. Complexity, 2021, 2021, 1-11. | 0.9 | 20 |
| 18 | Analytical Solutions for the Nonlinear Partial Differential Equations Using the Conformable Triple Laplace Transform Decomposition Method. International Journal of Differential Equations, 2021, 2021, 1-18. | 0.3 | 19 |

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|---|---------|-----|-----------|
| 19 | New conservation laws and exact solutions of the special case of the fifth-order KdV equation. Journal of Ocean Engineering and Science, 2022, 7, 377-382. | 1.7 | 19 |
| 20 | On the Stochastic Modeling of COVID-19 under the Environmental White Noise. Journal of Function Spaces, 2022, 2022, 1-9. | 0.4 | 19 |
| 21 | On Computation and Analysis of Topological Index-Based Invariants for Complex Coronoid Systems. Complexity, 2021, 2021, 1-12. | 0.9 | 18 |
| 22 | Generalized Conformable Mean Value Theorems with Applications to Multivariable Calculus. Journal of Mathematics, 2021, 2021, 1-7. | 0.5 | 15 |
| 23 | Zero and Nonzero Mass Flux Effects of Bioconvective Viscoelastic Nanofluid over a 3D Riga Surface with the Swimming of Gyrotactic Microorganisms. Advances in Mathematical Physics, 2021, 2021, 1-13. | 0.4 | 15 |
| 24 | Existence and U-H-R Stability of Solutions to the Implicit Nonlinear FBVP in the Variable Order Settings. Mathematics, 2021, 9, 1693. | 1.1 | 15 |
| 25 | New Exact Soliton Solutions of the (<math xmlns="http://www.w3.org/1998/Math/MathML" id="M1">) Tj ETQq1 1 0.784314 rgBT /Ove Wazwaz–Benjamin–Bona–Mahony Equation via Two Novel Techniques. Journal of Function Spaces, 2021, 2021, 1-13. | 0.4 | 15 |
| 26 | Investigation of the Fractional Strongly Singular Thermostat Model via Fixed Point Techniques. Mathematics, 2021, 9, 2298. | 1.1 | 15 |
| 27 | New approximate-analytical solutions to partial differential equations via auxiliary function method. Partial Differential Equations in Applied Mathematics, 2021, 4, 100045. | 1.3 | 15 |
| 28 | Novel Symmetric Numerical Methods for Solving Symmetric Mathematical Problems. International Journal of Circuits, Systems and Signal Processing, 2021, 15, 1545-1557. | 0.2 | 15 |
| 29 | A Study on the Solutions of a Multiterm FBVP of Variable Order. Journal of Function Spaces, 2021, 2021, 1-9. | 0.4 | 14 |
| 30 | On Conformable Laplace's Equation. Mathematical Problems in Engineering, 2021, 2021, 1-10. | 0.6 | 13 |
| 31 | A Complete Model of Crimean-Congo Hemorrhagic Fever (CCHF) Transmission Cycle with Nonlocal Fractional Derivative. Journal of Function Spaces, 2021, 2021, 1-12. | 0.4 | 13 |
| 32 | Classification of Initial Stages of Alzheimer's Disease through Pet Neuroimaging Modality and Deep Learning: Quantifying the Impact of Image Filtering Approaches. Mathematics, 2021, 9, 3101. | 1.1 | 13 |
| 33 | Qualitative Analysis of a Hyperchaotic Lorenz-Stenflo Mathematical Model via the Caputo Fractional Operator. Journal of Function Spaces, 2022, 2022, 1-21. | 0.4 | 13 |
| 34 | To investigate a class of multi-singular pointwise defined fractional $ q $–integro-differential equation with applications. AIMS Mathematics, 2022, 7, 7781-7816. | 0.7 | 13 |
| 35 | Some Qualitative Analyses of Neutral Functional Delay Differential Equation with Generalized Caputo Operator. Journal of Function Spaces, 2021, 2021, 1-13. | 0.4 | 12 |
| 36 | Explicit iteration and unbounded solutions for fractional q–difference equations with boundary conditions on an infinite interval. Journal of Inequalities and Applications, 2022, 2022, . | 0.5 | 12 |

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|---|---------|----|-----------|
| 37 | New exact solutions of the Mikhailov-Novikov-Wang equation via three novel techniques. Journal of Ocean Engineering and Science, 2023, 8, 103-110. | 1.7 | 12 |
| 38 | A new computational approach to the fractional-order Liouville equationÂarising from mechanics of water waves and meteorological forecasts. Journal of Ocean Engineering and Science, 2022, , . | 1.7 | 12 |
| 39 | New Soliton Solutions for the Higher-Dimensional Non-Local Ito Equation. Nonlinear Engineering, 2021, 10, 374-384. | 1.4 | 11 |
| 40 | A unique computational investigation of the exact traveling wave solutions for the fractional-order Kaup-Boussinesq and generalized Hirota Satsuma coupled KdV systems arising from water waves and interaction of long waves. Journal of Ocean Engineering and Science, 2022, , . | 1.7 | 11 |
| 41 | Distance based topological descriptors of zinc porphyrin dendrimer. Journal of Molecular Structure, 2022, 1268, 133614. | 1.8 | 11 |
| 42 | Investigation of the neutral fractional differential inclusions of Katugampola-type involving both retarded and advanced arguments via Kuratowski MNC technique. Advances in Difference Equations, 2021, 2021, . | 3.5 | 10 |
| 43 | Performance Evaluation of Machine Learning-Based Channel Equalization Techniques: New Trends and Challenges. Journal of Sensors, 2022, 2022, 1-14. | 0.6 | 10 |
| 44 | A q-Gradient Descent Algorithm with Quasi-FejÃ©r Convergence for Unconstrained Optimization Problems. Fractal and Fractional, 2021, 5, 110. | 1.6 | 9 |
| 45 | Hardware-in-the-Loop Implementation and Performance Evaluation of Three-Phase Hybrid Shunt Active Power Filter for Power Quality Improvement. Mathematical Problems in Engineering, 2021, 2021, 1-23. | 0.6 | 9 |
| 46 | Constructing analytical estimates of the fuzzy fractional-order Boussinesq model and their application in oceanography. Journal of Ocean Engineering and Science, 2023, 8, 196-215. | 1.7 | 9 |
| 47 | Dynamical investigation of time-fractional order Phi-4 equations. Optical and Quantum Electronics, 2022, 54, 1. | 1.5 | 9 |
| 48 | Solving systems of conformable linear differential equations via the conformable exponential matrix. Ain Shams Engineering Journal, 2021, 12, 4075-4080. | 3.5 | 8 |
| 49 | Using Krasnoselskii's theorem to investigate the Cauchy and neutral fractional $q$-integro-differential equation $via$ numerical technique. Nonlinear Engineering, 2022, 11, 186-206. | 1.4 | 8 |
| 50 | A novel investigation of exact solutions of the coupled nonlinear Schrodinger equationsÂarising in ocean engineering, plasma waves, and nonlinear optics. Journal of Ocean Engineering and Science, 2022, , . | 1.7 | 8 |
| 51 | On Computation and Analysis of Entropy Measures for Crystal Structures. Mathematical Problems in Engineering, 2021, 2021, 1-16. | 0.6 | 7 |
| 52 | Investigation of the Generalized Proportional Langevin and Sturmâ€"Liouville Fractional Differential Equations via Variable Coefficients and Antiperiodic Boundary Conditions with a Control Theory Application Arising from Complex Networks. Mathematical Problems in Engineering, 2022, 2022, 1-21. | 0.6 | 7 |
| 53 | Magneto Mixed Convection of Williamson Nanofluid Flow through a Double Stratified Porous Medium in Attendance of Activation Energy. Mathematical and Computational Applications, 2022, 27, 46. | 0.7 | 7 |
| 54 | On Comparative Analysis for the Black-Scholes Model in the Generalized Fractional Derivatives Sense via Jafari Transform. Journal of Function Spaces, 2021, 2021, 1-22. | 0.4 | 6 |

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|---|---------|----|-----------|
| 55 | Design and development of an Irrigation Mobile Robot. IAES International Journal of Robotics and Automation, 2021, 10, 75. | 0.2 | 4 |
| 56 | Sufficient conditions for the existence of oscillatory solutions to nonlinear second order differential equations. Journal of Applied Mathematics and Computing, 2022, 68, 2515-2532. | 1.2 | 4 |
| 57 | Radial Radio Number of Hexagonal and Its Derived Networks. International Journal of Mathematics and Mathematical Sciences, 2021, 2021, 1-8. | 0.3 | 3 |
| 58 | Novel results on conformable Bessel functions. Nonlinear Engineering, 2022, 11, 6-12. | 1.4 | 3 |
| 59 | A Novel Homotopy Perturbation Algorithm Using Laplace Transform for Conformable Partial Differential Equations. Mathematical Problems in Engineering, 2021, 2021, 1-13. | 0.6 | 3 |
| 60 | Darbo Fixed Point Criterion on Solutions of a Hadamard Nonlinear Variable Order Problem and Ulam-Hyers-Rassias Stability. Journal of Function Spaces, 2022, 2022, 1-12. | 0.4 | 3 |
| 61 | A study on multiterm hybrid multi-order fractional boundary value problem coupled with its stability analysis of Ulam–Hyers type. Advances in Difference Equations, 2021, 2021, . | 3.5 | 2 |
| 62 | On the Oscillation of Even-Order Nonlinear Differential Equations with Mixed Neutral Terms. Journal of Function Spaces, 2021, 2021, 1-6. | 0.4 | 2 |
| 63 | Radio and Radial Radio Numbers of Certain Sunflower Extended Graphs. International Journal of Mathematics and Mathematical Sciences, 2022, 2022, 1-9. | 0.3 | 2 |
| 64 | Some New Results on Conformable Fractional Power Series. Asia Pacific Journal of Mathematics, 0, , . | 0.0 | 1 |
| 65 | Novel Investigation of Multivariable Conformable Calculus for Modeling Scientific Phenomena. Journal of Mathematics, 2021, 2021, 1-12. | 0.5 | 1 |
| 66 | Optimization: Molecular Communication Networks for Viral Disease Analysis Using Deep Leaning Autoencoder. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-11. | 0.7 | 1 |
| 67 | The bounds for the distance two labelling and radio labelling of nanostar tree dendrimer. Telkomnika (Telecommunication Computing Electronics and Control), 2022, 20, 52. | 0.6 | 1 |
| 68 | Econometric Analysis of Macroeconomic to Age-Specific Mortality Rate in Malaysia: Evidence from Panel Data. Journal of Mathematics, 2022, 2022, 1-13. | 0.5 | 1 |
| 69 | Catalan Transform of $k$-Balancing Sequences. International Journal of Mathematics and Mathematical Sciences, 2021, 2021, 1-6. | 0.3 | 1 |
| 70 | A Novel Numerical Treatment of Nonlinear and Nonequilibrium Model of Gradient Elution Chromatography considering Core-Shell Particles in the Column. Mathematical Problems in Engineering, 2022, 2022, 1-14. | 0.6 | 1 |
| 71 | Bidirectional CPW Fed Quad-Band DRA for WLAN/WiMAX Applications. Wireless Communications and Mobile Computing, 2022, 2022, 1-9. | 0.8 | 1 |
| 72 | Inequalities on Generalized Sasakian Space Forms. Journal of Function Spaces, 2021, 2021, 1-6. | 0.4 | 0 |

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|---|---------|----|-----------| 
| 73 | Investigation of the Infinite Discrete Levels from Finite Discrete Levels in Position Dependent Mass Quantum Systems. European Journal of Pure and Applied Mathematics, 2022, 15, 238-248. | 0.1 | 0 |
| 74 | Research on Strategy Optimization of 5G NSA Based on Mobile Learning. , 2021, , . | | 0 |
| 75 | Speed Correction of Electrical Imaging Logging Based on Fuzzy Logic. , 2021, , . | | 0 |
| 76 | A Comparative Analysis of the Forecasted Mortality Rate under Normal Conditions and the COVID-19 Excess Mortality Rate in Malaysia. Journal of Mathematics, 2022, 2022, 1-12. | 0.5 | 0 |