

# Mohammed K A Kaabar

## List of Publications by Year in descending order

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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	Constructing analytical estimates of the fuzzy fractional-order Boussinesq model and their application in oceanography. <i>Journal of Ocean Engineering and Science</i> , 2023, 8, 196-215.	1.7	9
2	New exact solutions of the Mikhailov-Novikov-Wang equation via three novel techniques. <i>Journal of Ocean Engineering and Science</i> , 2023, 8, 103-110.	1.7	12
3	On some novel solution solutions to the generalized Schrödinger-Boussinesq equations for the interaction between complex short wave and real long wave envelope. <i>Journal of Ocean Engineering and Science</i> , 2022, 7, 353-362.	1.7	23
4	New conservation laws and exact solutions of the special case of the fifth-order KdV equation. <i>Journal of Ocean Engineering and Science</i> , 2022, 7, 377-382.	1.7	19
5	Sufficient conditions for the existence of oscillatory solutions to nonlinear second order differential equations. <i>Journal of Applied Mathematics and Computing</i> , 2022, 68, 2515-2532.	1.2	4
6	Performance Evaluation of Machine Learning-Based Channel Equalization Techniques: New Trends and Challenges. <i>Journal of Sensors</i> , 2022, 2022, 1-14.	0.6	10
7	Qualitative Analysis of a Hyperchaotic Lorenz-Stenflo Mathematical Model via the Caputo Fractional Operator. <i>Journal of Function Spaces</i> , 2022, 2022, 1-21.	0.4	13
8	Radio and Radial Radio Numbers of Certain Sunflower Extended Graphs. <i>International Journal of Mathematics and Mathematical Sciences</i> , 2022, 2022, 1-9.	0.3	2
9	The bounds for the distance two labelling and radio labelling of nanostar tree dendrimer. <i>Telkomnika (Telecommunication Computing Electronics and Control)</i> , 2022, 20, 52.	0.6	1
10	Dynamics of the worm transmission in wireless sensor network in the framework of fractional derivatives. <i>Mathematical Methods in the Applied Sciences</i> , 2022, 45, 4278-4294.	1.2	30
11	Novel results on conformable Bessel functions. <i>Nonlinear Engineering</i> , 2022, 11, 6-12.	1.4	3
12	To investigate a class of multi-singular pointwise defined fractional $q$ -integro-differential equation with applications. <i>AIMS Mathematics</i> , 2022, 7, 7781-7816.	0.7	13
13	Investigation of the Infinite Discrete Levels from Finite Discrete Levels in Position Dependent Mass Quantum Systems. <i>European Journal of Pure and Applied Mathematics</i> , 2022, 15, 238-248.	0.1	0
14	Econometric Analysis of Macroeconomic to Age-Specific Mortality Rate in Malaysia: Evidence from Panel Data. <i>Journal of Mathematics</i> , 2022, 2022, 1-13.	0.5	1
15	On the Stochastic Modeling of COVID-19 under the Environmental White Noise. <i>Journal of Function Spaces</i> , 2022, 2022, 1-9.	0.4	19
16	Explicit iteration and unbounded solutions for fractional $q$ -difference equations with boundary conditions on an infinite interval. <i>Journal of Inequalities and Applications</i> , 2022, 2022, .	0.5	12
17	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. <i>Journal of Ocean Engineering and Science</i> , 2022, , .	1.7	11
18	Dynamical investigation of time-fractional order Phi-4 equations. <i>Optical and Quantum Electronics</i> , 2022, 54, 1.	1.5	9

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19	A new computational approach to the fractional-order Liouville equation arising from mechanics of water waves and meteorological forecasts. <i>Journal of Ocean Engineering and Science</i> , 2022, , .	1.7	12
20	Mathematical modeling of COVID-19 pandemic in India using Caputo-Fabrizio fractional derivative. <i>Computers in Biology and Medicine</i> , 2022, 145, 105518.	3.9	34
21	Darbo Fixed Point Criterion on Solutions of a Hadamard Nonlinear Variable Order Problem and Ulam-Hyers-Rassias Stability. <i>Journal of Function Spaces</i> , 2022, 2022, 1-12.	0.4	3
22	Investigation of the Generalized Proportional Langevin and Sturm Liouville Fractional Differential Equations via Variable Coefficients and Antiperiodic Boundary Conditions with a Control Theory Application Arising from Complex Networks. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-21.	0.6	7
23	A Comparative Analysis of the Forecasted Mortality Rate under Normal Conditions and the COVID-19 Excess Mortality Rate in Malaysia. <i>Journal of Mathematics</i> , 2022, 2022, 1-12.	0.5	0
24	A Novel Numerical Treatment of Nonlinear and Nonequilibrium Model of Gradient Elution Chromatography considering Core-Shell Particles in the Column. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-14.	0.6	1
25	Magneto Mixed Convection of Williamson Nanofluid Flow through a Double Stratified Porous Medium in Attendance of Activation Energy. <i>Mathematical and Computational Applications</i> , 2022, 27, 46.	0.7	7
26	Bidirectional CPW Fed Quad-Band DRA for WLAN/WiMAX Applications. <i>Wireless Communications and Mobile Computing</i> , 2022, 2022, 1-9.	0.8	1
27	Using Krasnoselskii's theorem to investigate the Cauchy and neutral fractional integro-differential equation via numerical technique. <i>Nonlinear Engineering</i> , 2022, 11, 186-206.	1.4	8
28	A novel investigation of exact solutions of the coupled nonlinear Schrodinger equations arising in ocean engineering, plasma waves, and nonlinear optics. <i>Journal of Ocean Engineering and Science</i> , 2022, , .	1.7	8
29	Distance based topological descriptors of zinc porphyrin dendrimer. <i>Journal of Molecular Structure</i> , 2022, 1268, 133614.	1.8	11
30	On Conformable Laplace's Equation. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-10.	0.6	13
31	Condensing Functions and Approximate Endpoint Criterion for the Existence Analysis of Quantum Integro-Difference FBVPs. <i>Symmetry</i> , 2021, 13, 469.	1.1	55
32	Investigation of the neutral fractional differential inclusions of Katugampola-type involving both retarded and advanced arguments via Kuratowski MNC technique. <i>Advances in Difference Equations</i> , 2021, 2021, .	3.5	10
33	Generalized Conformable Mean Value Theorems with Applications to Multivariable Calculus. <i>Journal of Mathematics</i> , 2021, 2021, 1-7.	0.5	15
34	Solving systems of conformable linear differential equations via the conformable exponential matrix. <i>Ain Shams Engineering Journal</i> , 2021, 12, 4075-4080.	3.5	8
35	New approximate analytical solutions for the nonlinear fractional Schrödinger equation with second order spatio-temporal dispersion via double Laplace transform method. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 11138-11156.	1.2	42
36	The Existence, Uniqueness, and Stability Analysis of the Discrete Fractional Three-Point Boundary Value Problem for the Elastic Beam Equation. <i>Symmetry</i> , 2021, 13, 789.	1.1	25

#	ARTICLE	IF	CITATIONS
37	A Study on the Solutions of a Multiterm FBVP of Variable Order. Journal of Function Spaces, 2021, 2021, 1-9.	0.4	14
38	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
39	Design and development of an Irrigation Mobile Robot. IAES International Journal of Robotics and Automation, 2021, 10, 75.	0.2	4
40	On Computation and Analysis of Entropy Measures for Crystal Structures. Mathematical Problems in Engineering, 2021, 2021, 1-16.	0.6	7
41	Some Qualitative Analyses of Neutral Functional Delay Differential Equation with Generalized Caputo Operator. Journal of Function Spaces, 2021, 2021, 1-13.	0.4	12
42	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
43	Existence of Solutions for a Singular Fractional $q$ -Differential Equations under Riemannâ€Liouville Integral Boundary Condition. Symmetry, 2021, 13, 1235.	1.1	20
44	A study on multiterm hybrid multi-order fractional boundary value problem coupled with its stability analysis of Ulamâ€Hyers type. Advances in Difference Equations, 2021, 2021, .	3.5	2
45	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
46	Monotone Iterative Method for $\tilde{\gamma}$ -Caputo Fractional Differential Equation with Nonlinear Boundary Conditions. Fractal and Fractional, 2021, 5, 81.	1.6	30
47	New Exact Soliton Solutions of the ( $\langle \mathit{http://www.w3.org/1998/Math/MathML} \mathit{id}=\mathit{M1} \rangle$ ) Tj ETQq1 1 0.784314 rgBT /Over Wazwazâ€Benjaminâ€Bonaâ€Mahony Equation via Two Novel Techniques. Journal of Function Spaces, 2021, 2021, 1-13.	0.4	15
48	Radial Radio Number of Hexagonal and Its Derived Networks. International Journal of Mathematics and Mathematical Sciences, 2021, 2021, 1-8.	0.3	3
49	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
50	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
51	A fractional differential equation with multi-point strip boundary condition involving the Caputo fractional derivative and its Hyersâ€Ulam stability. Boundary Value Problems, 2021, 2021, .	0.3	20
52	Reduced-Complexity LDPC Decoding for Next-Generation IoT Networks. Wireless Communications and Mobile Computing, 2021, 2021, 1-10.	0.8	20
53	Inequalities on Generalized Sasakian Space Forms. Journal of Function Spaces, 2021, 2021, 1-6.	0.4	0
54	Investigation of the Fractional Strongly Singular Thermostat Model via Fixed Point Techniques. Mathematics, 2021, 9, 2298.	1.1	15

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55	A q-Gradient Descent Algorithm with Quasi-Fej $\ddot{r}$ Convergence for Unconstrained Optimization Problems. <i>Fractal and Fractional</i> , 2021, 5, 110.	1.6	9
56	New approximate-analytical solutions to partial differential equations via auxiliary function method. <i>Partial Differential Equations in Applied Mathematics</i> , 2021, 4, 100045.	1.3	15
57	Investigation of the p-Laplacian nonperiodic nonlinear boundary value problem via generalized Caputo fractional derivatives. <i>Advances in Difference Equations</i> , 2021, 2021, .	3.5	120
58	On the Oscillation of Even-Order Nonlinear Differential Equations with Mixed Neutral Terms. <i>Journal of Function Spaces</i> , 2021, 2021, 1-6.	0.4	2
59	A Generalized Definition of the Fractional Derivative with Applications. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-9.	0.6	74
60	Hardware-in-the-Loop Implementation and Performance Evaluation of Three-Phase Hybrid Shunt Active Power Filter for Power Quality Improvement. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-23.	0.6	9
61	Novel Symmetric Numerical Methods for Solving Symmetric Mathematical Problems. <i>International Journal of Circuits, Systems and Signal Processing</i> , 2021, 15, 1545-1557.	0.2	15
62	On Computation and Analysis of Topological Index-Based Invariants for Complex Coronoid Systems. <i>Complexity</i> , 2021, 2021, 1-12.	0.9	18
63	Deep Learning in Cancer Diagnosis and Prognosis Prediction: A Minireview on Challenges, Recent Trends, and Future Directions. <i>Computational and Mathematical Methods in Medicine</i> , 2021, 2021, 1-28.	0.7	55
64	Chaotic Behavior Analysis of a New Incommensurate Fractional-Order Hopfield Neural Network System. <i>Complexity</i> , 2021, 2021, 1-11.	0.9	20
65	A Generalized ML-Hyers-Ulam Stability of Quadratic Fractional Integral Equation. <i>Nonlinear Engineering</i> , 2021, 10, 414-427.	1.4	37
66	New Soliton Solutions for the Higher-Dimensional Non-Local Ito Equation. <i>Nonlinear Engineering</i> , 2021, 10, 374-384.	1.4	11
67	Novel Investigation of Multivariable Conformable Calculus for Modeling Scientific Phenomena. <i>Journal of Mathematics</i> , 2021, 2021, 1-12.	0.5	1
68	Classification of Initial Stages of Alzheimer's Disease through Pet Neuroimaging Modality and Deep Learning: Quantifying the Impact of Image Filtering Approaches. <i>Mathematics</i> , 2021, 9, 3101.	1.1	13
69	Optimization: Molecular Communication Networks for Viral Disease Analysis Using Deep Learning Autoencoder. <i>Computational and Mathematical Methods in Medicine</i> , 2021, 2021, 1-11.	0.7	1
70	Catalan Transform of $k$ -Balancing Sequences. <i>International Journal of Mathematics and Mathematical Sciences</i> , 2021, 2021, 1-6.	0.3	1
71	Research on Strategy Optimization of 5G NSA Based on Mobile Learning. , 2021, , .		0
72	Speed Correction of Electrical Imaging Logging Based on Fuzzy Logic. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
73	On Comparative Analysis for the Black-Scholes Model in the Generalized Fractional Derivatives Sense via Jafari Transform. <i>Journal of Function Spaces</i> , 2021, 2021, 1-22.	0.4	6
74	A Novel Homotopy Perturbation Algorithm Using Laplace Transform for Conformable Partial Differential Equations. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-13.	0.6	3
75	New results on complex conformable integral. <i>AIMS Mathematics</i> , 2020, 5, 7695-7710.	0.7	25
76	Some New Results on Conformable Fractional Power Series. <i>Asia Pacific Journal of Mathematics</i> , 0, , .	0.0	1