Dumitru Baleanu

List of Publications by Year
in descending order

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1,336	50,013	2215 99	6471 157
papers	citations	h-index	g-index

1350	1350	1350	9936
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dynamics of COVIDâ€19 via singular and nonâ€singular fractional operators under real statistical observations. Mathematical Methods in the Applied Sciences, 2024, 47, 3079-3100.	2.3	6
2	Numerical solutions of fractional parabolic equations with generalized <scp>Mittagâ€“Leffler</scp> kernels. Numerical Methods for Partial Differential Equations, 2024, 40, .	3.6	4
3	Numerical simulations for the predatorâ€“prey model as a prototype of an excitable system. Numerical Methods for Partial Differential Equations, 2024, 40, .	3.6	3
4	New approach for propagated light with optical solitons by optical fiber in pseudohyperbolic space â„02. Mathematical Methods in the Applied Sciences, 2023, 46, 8263-8274.	2.3	0
5	Research on a collocation approach and three metaheuristic techniques based on MVO, MFO, and WOA for optimal control of fractional differential equation. JVC/Journal of Vibration and Control, 2023, 29, 661-674.	2.6	5
6	Fractionalâ€order dynamical model for electricity markets. Mathematical Methods in the Applied Sciences, 2023, 46, 8349-8361.	2.3	6
7	Dynamics of three-point boundary value problems with Gudermannian neural networks. Evolutionary Intelligence, 2023, 16, 697-709.	3.6	3
8	A high-order unconditionally stable numerical method for a class of multi-term time-fractional diffusion equation arising in the solute transport models. International Journal of Computer Mathematics, 2023, 100, 105-132.	1.8	11
9	Analysis and numerical effects of time-delayed rabies epidemic model with diffusion. International Journal of Nonlinear Sciences and Numerical Simulation, 2023, 24, 2179-2194.	1.0	2
10	Investigations of non-linear induction motor model using the Gudermannian neural networks. Thermal Science, 2022, 26, 3399-3412.	1.1	8
11	Numerical approximation of inhomogeneous time fractional Burgersâ€“Huxley equation with B-spline functions and Caputo derivative. Engineering With Computers, 2022, 38, 885-900.	6.1	11
12	An inverse source problem for pseudo-parabolic equation with Caputo derivative. Journal of Applied Mathematics and Computing, 2022, 68, 739-765.	2.5	8
13	A numerical approach for solving fractional optimal control problems with mittag-leffler kernel. JVC/Journal of Vibration and Control, 2022, 28, 2596-2606.	2.6	34
14	On a problem for the nonlinear diffusion equation with conformable time derivative. Applicable Analysis, 2022, 101, 6255-6279.	1.3	4
15	Numerical solution of highly non-linear fractional order reaction advection diffusion equation using the cubic B-spline collocation method. International Journal of Nonlinear Sciences and Numerical Simulation, 2022, 23, 1157-1172.	1.0	5
16	An efficient hybrid computational technique for the time dependent Lane-Emden equation of arbitrary order. Journal of Ocean Engineering and Science, 2022, 7, 131-142.	4.3	8
17	On beta-time fractional biological population model with abundant solitary wave structures. AEJ - Alexandria Engineering Journal, 2022, 61, 1996-2008.	6.4	44
18	Advanced Analysis of Local Fractional Calculus Applied to the Rice Theory in Fractal Fracture Mechanics. Studies in Systems, Decision and Control, 2022, , 105-133.	1.0	3

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19	A robust study on the listeriosis disease by adopting fractal-fractional operators. AEJ - Alexandria Engineering Journal, 2022, 61, 2016-2028.	6.4	25
20	Lie Group Theory for Nonlinear Fractional K(m, n) Type Equation with Variable Coefficients. Studies in Systems, Decision and Control, 2022, , 207-227.	1.0	4
21	THEORETICAL STUDY OF MHD MAXWELL FLUID WITH COMBINED EFFECT OF HEAT AND MASS TRANSFER VIA LOCAL AND NONLOCAL TIME DERIVATIVES. Fractals, 2022, 30, .	3.7	2
22	A General Fractional Pollution Model for Lakes. Communications on Applied Mathematics and Computation, 2022, 4, 1105-1130.	1.7	21
23	Dynamical analysis and triple compound combination anti-synchronization of novel fractional chaotic system. JVC/Journal of Vibration and Control, 2022, 28, 1057-1073.	2.6	8
24	On time fractional pseudo-parabolic equations with nonlocal integral conditions. Evolution Equations and Control Theory, 2022, 11, 225.	1.3	12
25	A general fractional formulation and tracking control for immunogenic tumor dynamics. Mathematical Methods in the Applied Sciences, 2022, 45, 667-680.	2.3	113
26	Two-wave, breather wave solutions and stability analysis to the (2Â+Â1)-dimensional Ito equation. Journal of Ocean Engineering and Science, 2022, 7, 467-474.	4.3	5
27	On the analysis of an analytical approach for fractional Caudrey-Dodd-Gibbon equations. AEJ - Alexandria Engineering Journal, 2022, 61, 5073-5082.	6.4	21
28	Nonlinear dynamics and chaos in fractional differential equations with a new generalized Caputo fractional derivative. Chinese Journal of Physics, 2022, 77, 1003-1014.	3.9	18
29	Convection heat transfer under the effect of uniform and periodic magnetic fields with uniform internal heat generation: a new comprehensive work to develop the ability of the multi relaxation time lattice Boltzmann method. Journal of Thermal Analysis and Calorimetry, 2022, 147, 7883-7897.	3.6	5
30	FMNSICS: Fractional Meyer neuro-swarm intelligent computing solver for nonlinear fractional Laneâ€“Emden systems. Neural Computing and Applications, 2022, 34, 4193-4206.	5.6	28
31	Water molecules adsorption by a porous carbon matrix in the presence of NaCl impurities using molecular dynamic simulation. Journal of Molecular Liquids, 2022, 347, 117998.	4.9	3
32	The effect of sedimentation phenomenon of the additives silver nano particles on water pool boiling heat transfer coefficient: A comprehensive experimental study. Journal of Molecular Liquids, 2022, 345, 117891.	4.9	10
33	Existence of local and global solutions to fractional order fuzzy delay differential equation with non-instantaneous impulses. AIMS Mathematics, 2022, 7, 2348-2369.	1.6	5
34	Numerical analysis of the effect of hot dent infusion jet on the fluid flow and heat transfer rate through the microchannel in the presence of external magnetic field. Journal of Thermal Analysis and Calorimetry, 2022, 147, 8397-8409.	3.6	4
35	Rouge Wave, W-Shaped, Bright, and Dark Soliton Solutions for a Generalized Quasi-1D Boseâ€“Einstein Condensate System with Local M-Derivative. Brazilian Journal of Physics, 2022, 52, 1.	1.4	3
36	Studying heat conduction in a sphere considering hybrid fractional derivative operator. Thermal Science, 2022, 26, 1675-1683.	1.1	1

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37	Effect of laser welding parameters on the temperature distribution, microstructure and mechanical properties of dissimilar weld joint of Inconel 625 and stainless steel 304. International Communications in Heat and Mass Transfer, 2022, 131, 105859.	5.6	10
38	The investigation of Fe3O4 atomic aggregation in a nanochannel in the presence of magnetic field: Effects of nanoparticles distance center of mass, temperature and total energy via molecular dynamics approach. Journal of Molecular Liquids, 2022, 348, 118400.	4.9	6
39	ON AN EXTENSION OF THE OPERATOR WITH MITTAG-LEFFLER KERNEL. Fractals, 2022, 30, .	3.7	23
40	Computational simulation of cross-flow of Williamson fluid over a porous shrinking/stretching surface comprising hybrid nanofluid and thermal radiation. AIMS Mathematics, 2022, 7, 6489-6515.	1.6	15
41	Fractional Modeling of Viscous Fluid over a Moveable Inclined Plate Subject to Exponential Heating with Singular and Non-Singular Kernels. Mathematical and Computational Applications, 2022, 27, 8.	1.3	7
42	A delayed plant disease model with Caputo fractional derivatives. , 2022, 2022, 11.		24
43	Boger nanofluid: significance of Coriolis and Lorentz forces on dynamics of rotating fluid subject to suction/injection via finite element simulation. Scientific Reports, 2022, 12, 1612.	3.3	5
44	Phase change material dependency on solar power plant building through examination of energy-saving. Journal of Energy Storage, 2022, 45, 103718.	8.1	10
45	On Transformation Involving Basic Analogue to the Aleph-Function of Two Variables. Fractal and Fractional, 2022, 6, 71.	3.3	1
46	Hermiteâ€“Hadamard Type Inequalities for Interval-Valued Preinvex Functions via Fractional Integral Operators. International Journal of Computational Intelligence Systems, 2022, 15, 1.	2.7	26
47	Fractional-order dynamics of human papillomavirus. Results in Physics, 2022, 34, 105281.	4.1	10
48	The Sharmaâ€“Tassoâ€“Olverâ€“Burgers equation: its conservation laws and kink solitons. Communications in Theoretical Physics, 2022, 74, 025001.	2.5	23
49	Projectile motion using three parameter Mittag-Leffler function calculus. Mathematics and Computers in Simulation, 2022, 195, 22-30.	4.4	4
50	Numerical analysis of Atangana-Baleanu fractional model to understand the propagation of a novel corona virus pandemic. AEJ - Alexandria Engineering Journal, 2022, 61, 7007-7027.	6.4	25
51	A novel analytical algorithm for generalized fifth-order time-fractional nonlinear evolution equations with conformable time derivative arising in shallow water waves. AEJ - Alexandria Engineering Journal, 2022, 61, 5753-5769.	6.4	35
52	A novel computing stochastic algorithm to solve the nonlinear singular periodic boundary value problems. International Journal of Computer Mathematics, 2022, 99, 2091-2104.	1.8	17
53	Design, Analysis and Comparison of a Nonstandard Computational Method for the Solution of a General Stochastic Fractional Epidemic Model. Axioms, 2022, 11, 10.	1.9	8
54	On soliton solutions of fractional-order nonlinear model appears in physical sciences. AIMS Mathematics, 2022, 7, 7421-7440.	1.6	17

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55	Nonlinear higher order fractional terminal value problems. AIMS Mathematics, 2022, 7, 7489-7506.	1.6	22
56	A novel high accurate numerical approach for the time-delay optimal control problems with delay on both state and control variables. AIMS Mathematics, 2022, 7, 9789-9808.	1.6	1
57	Analysing discrete fractional operators with exponential kernel for positivity in lower boundedness. AIMS Mathematics, 2022, 7, 10387-10399.	1.6	1
58	Further studies on ordinary differential equations involving the $ M $-fractional derivative. AIMS Mathematics, 2022, 7, 10977-10993.	1.6	1
59	Mellin transform for fractional integrals with general analytic kernel. AIMS Mathematics, 2022, 7, 9443-9462.	1.6	0
60	Non-instantaneous impulsive fractional-order delay differential systems with Mittag-Leffler kernel. AIMS Mathematics, 2022, 7, 9353-9372.	1.6	5
61	New classifications of monotonicity investigation for discrete operators with Mittag-Leffler kernel. Mathematical Biosciences and Engineering, 2022, 19, 4062-4074.	1.9	7
62	New approach on controllability of Hilfer fractional derivatives with nondense domain. AIMS Mathematics, 2022, 7, 10079-10095.	1.6	17
63	On a novel fuzzy fractional retarded delay epidemic model. AIMS Mathematics, 2022, 7, 10122-10142.	1.6	4
64	Design of neuro-swarming computational solver for the fractional Bagleyâ€“Torvik mathematical model. European Physical Journal Plus, 2022, 137, 245.	2.6	17
65	Optical solitons of a high-order nonlinear SchrÃ¶dinger equation involving nonlinear dispersions and Kerr effect. Optical and Quantum Electronics, 2022, 54, 1.	3.3	36
66	EDITORIAL - SPECIAL ISSUE SECTION ON FRACTAL AI-BASED ANALYSES AND APPLICATIONS TO COMPLEX SYSTEMS: PART II. Fractals, 2022, 30, .	3.7	2
67	Lie Symmetries, Closed-Form Solutions, and Various Dynamical Profiles of Solitons for the Variable Coefficient (2+1)-Dimensional KP Equations. Symmetry, 2022, 14, 597.	2.2	55
68	Propagation of traveling wave solutions to the Vakhnenko-Parkes dynamical equation via modified mathematical methods. Applied Mathematics, 2022, 37, 21-34.	1.0	5
69	Lattice Boltzmann method to study free convection and entropy generation of power-law fluids under influence of magnetic field and heat absorption/generation. Journal of Thermal Analysis and Calorimetry, 2022, 147, 10569-10594.	3.6	4
70	From Eikonal to Antieikonal Approximations: Competition of Scales in the Framework of SchrÃ¶dinger and Classical Wave Equation. Journal of Computational and Nonlinear Dynamics, 2022, 17, .	1.2	0
71	The Caputoâ€“Fabrizio time-fractional Sharmaâ€“Tassoâ€“Olverâ€“Burgers equation and its valid approximations. Communications in Theoretical Physics, 2022, 74, 075003.	2.5	4
72	Hidden Markov Model and multifractal method-based predictive quantization complexity models vis-Ã¡-vis the differential prognosis and differentiation of Multiple Sclerosisâ€™ subgroups. Knowledge-Based Systems, 2022, 246, 108694.	7.1	5

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73	The performance of a numerical scheme on the variable-order time-fractional advection-reaction-subdiffusion equations. Applied Numerical Mathematics, 2022, 178, 25-40.	2.1	11
74	On a new and generalized fractional model for a real cholera outbreak. AEJ - Alexandria Engineering Journal, 2022, 61, 9175-9186.	6.4	104
75	Lucas Wavelet Scheme for Fractional Bagleyâ€“Torvik Equations: Gaussâ€“Jacobi Approach. International Journal of Applied and Computational Mathematics, 2022, 8, 1.	1.6	6
76	Designing a Matrix Collocation Method for Fractional Delay Integro-Differential Equations with Weakly Singular Kernels Based on Vietaâ€“Fibonacci Polynomials. Fractal and Fractional, 2022, 6, 2.	3.3	9
77	A variety of dynamic $ alpha $-conformable Steffensen-type inequality on a time scale measure space. AIMS Mathematics, 2022, 7, 11382-11398.	1.6	8
78	Global stability of local fractional HÃ©non-Lozi map using fixed point theory. AIMS Mathematics, 2022, 7, 11399-11416.	1.6	6
79	Two-Dimensional Nanofluid Due to an Accelerated Plate with Viscosity Ratio. International Journal of Applied and Computational Mathematics, 2022, 8, 1.	1.6	1
80	Estimates for Coefficients of Bi-Univalent Functions Associated with a Fractional q-Difference Operator. Symmetry, 2022, 14, 879.	2.2	14
81	An asymptotic state estimator design and synchronization criteria for fractional order timeâ€delayed genetic regulatory networks. Asian Journal of Control, 2022, 24, 3163-3174.	3.0	5
82	Convoluted fractional differentials of various forms utilizing the generalized Raina's function description with applications. Journal of Taibah University for Science, 2022, 16, 432-441.	2.5	4
83	On the breather waves, lump solutions, two-wave solutions of (3+1) dimensional Martnez Alonso Shabat equation. Journal of Ocean Engineering and Science, 2022, , .	4.3	1
84	Analytical results for positivity of discrete fractional operators with approximation of the domain of solutions. Mathematical Biosciences and Engineering, 2022, 19, 7272-7283.	1.9	0
85	Numerical and experimental analysis of temperature distribution and melt flow in fiber laser welding of Inconel 625. International Journal of Advanced Manufacturing Technology, 2022, 121, 765-784.	3.0	17
86	Finite Time Stability of Fractional Order Systems of Neutral Type. Fractal and Fractional, 2022, 6, 289.	3.3	10
87	Bennett-Leindler nabla type inequalities via conformable fractional derivatives on time scales. AIMS Mathematics, 2022, 7, 14099-14116.	1.6	0
88	The dynamical behavior for a famous class of evolution equationsÂwith double exponential nonlinearities. Journal of Ocean Engineering and Science, 2022, , .	4.3	10
89	Analysis and some applications of a regularized <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1472" altimg="si349.svg"><mml:mi>Î¨</mml:mi></mml:math>â€“Hilfer fractional derivative. Journal of Computational and Applied Mathematics, 2022, 415, 114476.	2.0	72
90	The Korteweg-de Vriesâ€“Caudreyâ€“Doddâ€“Gibbon dynamical model: Its conservation laws, solitons, and complexiton. Journal of Ocean Engineering and Science, 2022, , .	4.3	5

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91	Optical solitons with nonlinear dispersion in parabolic law medium and three-component coupled nonlinear SchrÃ¶dinger equation. Optical and Quantum Electronics, 2022, 54, .	3.3	17
92	Inelastic soliton wave solutions with different geometrical structures to fractional order nonlinear evolution equations. Results in Physics, 2022, 38, 105661.	4.1	19
93	Positivity analysis for the discrete delta fractional differences of the Riemann-Liouville and Liouville-Caputo types. Electronic Research Archive, 2022, 30, 3058-3070.	0.9	5
94	Computational fractional-order calculus and classical calculus AI for comparative differentiability prediction analyses of complex-systems-grounded paradigm. , 2022, , 149-168.		6
95	Generalized fractional differential equations for past dynamic. AIMS Mathematics, 2022, 7, 14394-14418.	1.6	17
96	A hybrid computing approach to design the novel second order singular perturbed delay differential Lane-Emden model. Physica Scripta, 2022, 97, 085002.	2.5	5
97	Analysis of positivity results for discrete fractional operators by means of exponential kernels. AIMS Mathematics, 2022, 7, 15812-15823.	1.6	4
98	APPLICATION OF q-SHEHU TRANSFORM ON q-FRACTIONAL KINETIC EQUATION INVOLVING THE GENERALIZED HYPER-BESSEL FUNCTION. Fractals, 2022, 30, .	3.7	4
99	Monotonicity Results for Nabla Riemannâ€“Liouville Fractional Differences. Mathematics, 2022, 10, 2433.	2.2	2
100	On Some Important Dynamic Inequalities of Hardyâ€“Hilbert-Type on Timescales. Symmetry, 2022, 14, 1421.	2.2	1
101	On Some Important Class of Dynamic Hilbertâ€™s-Type Inequalities on Time Scales. Symmetry, 2022, 14, 1395.	2.2	1
102	On a Fractional Parabolic Equation with Regularized Hyper-Bessel Operator and Exponential Nonlinearities. Symmetry, 2022, 14, 1419.	2.2	3
103	A hybrid fractional optimal control for a novel Coronavirus (2019-nCov) mathematical model. Journal of Advanced Research, 2021, 32, 149-160.	9.5	29
104	Periodic and rogue waves for Heisenberg models of ferromagnetic spin chains with fractional beta derivative evolution and obliqueness. Waves in Random and Complex Media, 2021, 31, 2135-2149.	2.7	48
105	Discrete fractional calculus for intervalâ€“valued systems. Fuzzy Sets and Systems, 2021, 404, 141-158.	2.7	51
106	Antiâ€synchronization of chaotic systems using a fractional conformable derivative with power law. Mathematical Methods in the Applied Sciences, 2021, 44, 8286-8301.	2.3	10
107	Design of stochastic numerical solver for the solution of singular three-point second-order boundary value problems. Neural Computing and Applications, 2021, 33, 2427-2443.	5.6	45
108	Optimal solutions for singular linear systems of Caputo fractional differential equations. Mathematical Methods in the Applied Sciences, 2021, 44, 7884-7896.	2.3	24

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109	An efficient computational approach for local fractional Poisson equation in fractal media. Numerical Methods for Partial Differential Equations, 2021, 37, 1439-1448.	3.6	52
110	A spectral collocation method for solving fractional KdV and KdV-Burgers equations with non-singular kernel derivatives. Applied Numerical Mathematics, 2021, 161, 137-146.	2.1	63
111	Fuzzy clustering to classify several time series models with fractional Brownian motion errors. AEJ - Alexandria Engineering Journal, 2021, 60, 1137-1145.	6.4	20
112	Analysis of timeâ€fractional dynamical model of romantic and interpersonal relationships with nonâ€singular kernels: A comparative study. Mathematical Methods in the Applied Sciences, 2021, 44, 2183-2199.	2.3	9
113	Analysis and Application Using Quad Compound Combination Anti-synchronization on Novel Fractional-Order Chaotic System. Arabian Journal for Science and Engineering, 2021, 46, 1729-1742.	3.0	14
114	Henryâ€“Gronwall type q â€fractional integral inequalities. Mathematical Methods in the Applied Sciences, 2021, 44, 2033-2039.	2.3	10
115	Approximation of fixed point and its application to fractional differential equation. Journal of Applied Mathematics and Computing, 2021, 66, 507-525.	2.5	17
116	Computational study of fractional order smoking model. Chaos, Solitons and Fractals, 2021, 142, 110440.	5.1	29
117	A hybrid analytical algorithm for thin film flow problem occurring in non-Newtonian fluid mechanics. Ain Shams Engineering Journal, 2021, 12, 2297-2302.	6.1	18
118	Unification of the different fractional time derivatives: An application to the epidemic-antivirus dynamical system in computer networks. Chaos, Solitons and Fractals, 2021, 142, 110416.	5.1	16
119	SIR epidemic model of childhood diseases through fractional operators with Mittag-Leffler and exponential kernels. Mathematics and Computers in Simulation, 2021, 182, 514-534.	4.4	28
120	Recovering the initial value for a system of nonlocal diffusion equations with random noise on the measurements. Mathematical Methods in the Applied Sciences, 2021, 44, 5188-5209.	2.3	7
121	Pattern formation in superdiffusion predatorâ€“preyâ€like problems with integerâ€and nonintegerâ€order derivatives. Mathematical Methods in the Applied Sciences, 2021, 44, 4018-4036.	2.3	19
122	An analysis for Kleinâ€“Gordon equation using fractional derivative having Mittagâ€“Lefflerâ€type kernel. Mathematical Methods in the Applied Sciences, 2021, 44, 5458-5474.	2.3	5
123	New applications related to Covid-19. Results in Physics, 2021, 20, 103663.	4.1	29
124	Analysis of fractional model of guava for biological pest control with memory effect. Journal of Advanced Research, 2021, 32, 99-108.	9.5	62
125	Solutions of BVPs arising in hydrodynamic and magnetohydro-dynamic stability theory using polynomial and non-polynomial splines. AEJ - Alexandria Engineering Journal, 2021, 60, 941-953.	6.4	21
126	Analysis of the fractional corona virus pandemic via deterministic modeling. Mathematical Methods in the Applied Sciences, 2021, 44, 1086-1102.	2.3	29

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127	On the fractional optimal control problems with a general derivative operator. Asian Journal of Control, 2021, 23, 1062-1071.	3.0	124
128	Some exact solutions of a variable coefficients fractional biological population model. Mathematical Methods in the Applied Sciences, 2021, 44, 4701-4714.	2.3	16
129	On a combination of fractional differential and integral operators associated with a class of normalized functions. AIMS Mathematics, 2021, 6, 4211-4226.	1.6	8
130	Simulating the joint impact of temporal and spatial memory indices via a novel analytical scheme. Nonlinear Dynamics, 2021, 103, 2509-2524.	5.2	14
131	Mathematical analysis of tuberculosis control model using nonsingular kernel type Caputo derivative. Advances in Difference Equations, 2021, 2021, .	3.5	16
132	Construction and analysis of unified 4-point interpolating nonstationary subdivision surfaces. Advances in Difference Equations, 2021, 2021, .	3.5	1
133	Numerical investigation for the nonlinear model of hepatitis-B virus with the existence of optimal solution. AIMS Mathematics, 2021, 6, 8294-8314.	1.6	2
134	A new approach on the modelling, chaos control and synchronization of a fractional biological oscillator. Advances in Difference Equations, 2021, 2021, .	3.5	8
135	General Raina fractional integral inequalities on coordinates of convex functions. Advances in Difference Equations, 2021, 2021, .	3.5	14
136	On distinctive solitons type solutions for some important nonlinear SchrÃ¶dinger equations. Optical and Quantum Electronics, 2021, 53, 1.	3.3	19
137	The analytical analysis of nonlinear fractional-order dynamical models. AIMS Mathematics, 2021, 6, 6201-6219.	1.6	11
138	Numerical investigation of space fractional order diffusion equation by the Chebyshev collocation method of the fourth kind and compact finite difference scheme. Discrete and Continuous Dynamical Systems - Series S, 2021, 14, 2025.	1.1	5
139	On quantum hybrid fractional conformable differential and integral operators in a complex domain. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2021, 115, 1.	1.2	18
140	Modeling of a MED-TVC desalination system by considering the effects of nanoparticles: energetic and exergetic analysis. Journal of Thermal Analysis and Calorimetry, 2021, 144, 2675.	3.6	21
141	Lump, lump-one stripe, multiwave and breather solutions for the Hunterâ€“Saxton equation. Open Physics, 2021, 19, 1-10.	1.7	108
142	Analysis of the Physical Behavior of the Periodic Mixed-Convection Flow around a Nonconducting Horizontal Circular Cylinder Embedded in a Porous Medium. Journal of Mathematics, 2021, 2021, 1-7.	1.0	9
143	Analysis and Dynamics of Fractional Order Mathematical Model of COVID-19 in Nigeria Using Atangana-Baleanu Operator. Computers, Materials and Continua, 2021, 66, 1823-1848.	1.9	62
144	New aspects of fractional Bloch model associated with composite fractional derivative. Mathematical Modelling of Natural Phenomena, 2021, 16, 10.	2.4	12

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145	On CesÃro and Copson sequence spaces with weights. Journal of Inequalities and Applications, 2021, 2021, .	1.1	14
146	Exact Analysis of Second Grade Fluid with Generalized Boundary Conditions. Intelligent Automation and Soft Computing, 2021, 28, 547-559.	2.1	9
147	Epidemiological Analysis of the Coronavirus Disease Outbreak with Random Effects. Computers, Materials and Continua, 2021, 67, 3215-3227.	1.9	11
148	Quasi-periodic, chaotic and travelling wave structures of modified Gardner equation. Chaos, Solitons and Fractals, 2021, 143, 110578.	5.1	74
149	The (2â€‰+â€‰1)-dimensional Heisenberg ferromagnetic spin chain equation: its solitons and Jacobi elliptic function solutions. European Physical Journal Plus, 2021, 136, 1.	2.6	60
150	Mathematical modeling of pine wilt disease with Caputo fractional operator. Chaos, Solitons and Fractals, 2021, 143, 110569.	5.1	62
151	On the approximate solution of fractional-order Whithamâ€“Broerâ€“Kaup equations. Modern Physics Letters B, 2021, 35, 2150192.	1.9	4
152	Hydrodynamic analysis of a heat exchanger with crosscut twisted tapes and filled with thermal oil-based SWCNT nanofluid: applying ANN for prediction of objective parameters. Journal of Thermal Analysis and Calorimetry, 2021, 145, 2163-2176.	3.6	4
153	A class of fractal Hilbertâ€type inequalities obtained via Cantorâ€type spherical coordinates. Mathematical Methods in the Applied Sciences, 2021, 44, 6195-6208.	2.3	2
154	The refinement-schemes-based unified algorithms for certain nth order linear and nonlinear differential equations with a set of constraints. Advances in Difference Equations, 2021, 2021, .	3.5	1
155	Corrigendum to â€œA New Approach to Increase the Flexibility of Curves and Regular Surfaces Produced by 4-Point Ternary Subdivision Schemeâ€. Mathematical Problems in Engineering, 2021, 2021, 1-1.	1.1	0
156	Flat sheet direct contact membrane distillation desalination system using temperature-dependent correlations: thermal efficiency via a multi-parameter sensitivity analysis based on Monte Carlo method. Journal of Thermal Analysis and Calorimetry, 2021, 144, 2641.	3.6	12
157	Quasi binormal Schrodinger evolution of wave polarizatÄ±on field of light wÄ±th repulsive type. Physica Scripta, 2021, 96, 045104.	2.5	19
158	Numerical simulation for timeâ€fractional nonlinear reactionâ€“diffusion system on a uniform and nonuniform time stepping. Mathematical Methods in the Applied Sciences, 2021, 44, 5340-5364.	2.3	2
159	Fractional calculus in the sky. Advances in Difference Equations, 2021, 2021, .	3.5	58
160	Evolutionary computing for nonlinear singular boundary value problems using neural network, genetic algorithm and active-set algorithm. European Physical Journal Plus, 2021, 136, 1.	2.6	39
161	Testing the equality of several independent stationary and non-stationary time series models with fractional Brownian motion errors. AEJ - Alexandria Engineering Journal, 2021, 60, 1767-1775.	6.4	1
162	Analysis and applications of the proportional Caputo derivative. Advances in Difference Equations, 2021, 2021, .	3.5	15

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163	Shifted ultraspherical pseudo-Galerkin method for approximating the solutions of some types of ordinary fractional problems. Advances in Difference Equations, 2021, 2021, .	3.5	26
164	The effects of using corrugated booster reflectors to improve the performance of a novel solar collector to apply in cooling PV cells-Navigating performance using ANN. Journal of Thermal Analysis and Calorimetry, 2021, 145, 2151-2162.	3.6	4
165	Fractional-Order Investigation of Diffusion Equations via Analytical Approach. Frontiers in Physics, 2021, 8, .	2.1	5
166	Approximate solutions of nonlinear twoâ€dimensional Volterra integral equations. Mathematical Methods in the Applied Sciences, 2021, 44, 5548-5559.	2.3	3
167	Criteria for existence of solutions for a Liouvilleâ€“Caputo boundary value problem via generalized Gronwallâ€™s inequality. Journal of Inequalities and Applications, 2021, 2021, .	1.1	9
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