Dumitru Baleanu

List of Publications by Year
in descending order

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1,338 papers	50,013 citations	2120 100 h-index	6517 157 g-index
1350 all docs	1350 docs citations	1350 times ranked	9936 citing authors

#	ARTICLE	IF	CITATIONS
1	New fractional derivatives with nonlocal and non-singular kernel: Theory and application to heat transfer model. Thermal Science, 2016, 20, 763-769.	1.1	2,557
2	A new collection of real world applications of fractional calculus in science and engineering. Communications in Nonlinear Science and Numerical Simulation, 2018, 64, 213-231.	3.3	1,042
3	A new study on the mathematical modelling of human liver with Caputoâ€“Fabrizio fractional derivative. Chaos, Solitons and Fractals, 2020, 134, 109705.	5.1	534
4	Discrete fractional logistic map and its chaos. Nonlinear Dynamics, 2014, 75, 283-287.	5.3	383
5	Anomalous diffusion expressed through fractional order differential operators in the Blochâ€“Torrey equation. Journal of Magnetic Resonance, 2008, 190, 255-270.	2.2	375
6	New properties of conformable derivative. Open Mathematics, 2015, 13, .	1.0	355
7	New Derivatives on the Fractal Subset of Real-Line. Entropy, 2016, 18, 1.	2.2	315
8	On a new class of fractional operators. Advances in Difference Equations, 2017, 2017, .	3.5	266
9	Stability analysis of Caputo fractional-order nonlinear systems revisited. Nonlinear Dynamics, 2012, 67, 2433-2439.	5.3	252
10	A Hamiltonian Formulation and a Direct Numerical Scheme for Fractional Optimal Control Problems. JVC/Journal of Vibration and Control, 2007, 13, 1269-1281.	2.6	241
11	Caputo-type modification of the Hadamard fractional derivatives. Advances in Difference Equations, 2012, 2012, .	3.5	237
12	On some new properties of fractional derivatives with Mittag-Leffler kernel. Communications in Nonlinear Science and Numerical Simulation, 2018, 59, 444-462.	3.3	237
13	Fractal heat conduction problem solved by local fractional variation iteration method. Thermal Science, 2013, 17, 625-628.	1.1	233
14	Integration by parts and its applications of a new nonlocal fractional derivative with Mittag-Leffler nonsingular kernel. Journal of Nonlinear Science and Applications, 2017, 10, 1098-1107.	1.0	228
15	A new fractional model and optimal control of a tumor-immune surveillance with non-singular derivative operator. Chaos, 2019, 29, 083127.	2.5	211
16	Lagrangian Formulation of Classical Fields within Riemann-Liouville Fractional Derivatives. Physica Scripta, 2005, 72, 119-121.	2.5	203
17	Caputo-Fabrizio Derivative Applied to Groundwater Flow within Confined Aquifer. Journal of Engineering Mechanics - ASCE, 2017, 143, .	2.9	200
18	A hybrid Caputo fractional modeling for thermostat with hybrid boundary value conditions. Boundary Value Problems, 2020, 2020, .	0.7	196

#	Article	IF	Citations
19	Fractional calculus: A survey of useful formulas. European Physical Journal: Special Topics, 2013, 222, 1827-1846.	2.6	193
20	A new fractional exothermic reactions model having constant heat source in porous media with power, exponential and Mittag-Leffler laws. International Journal of Heat and Mass Transfer, 2019, 138, 1222-1227.	4.9	193
21	On a Fractional Operator Combining Proportional and Classical Differintegrals. Mathematics, 2020, 8, 360.	2.3	193
22	Analysis of time-fractional hunter-saxton equation: a model of neumatic liquid crystal. Open Physics, 2016, 14, 145-149.	1.8	192
23	On the generalized fractional derivatives and their Caputo modification. Journal of Nonlinear Science and Applications, 2017, 10, 2607-2619.	1.0	192
24	Controllability of fractional evolution nonlocal impulsive quasilinear delay integro-differential systems. Computers and Mathematics With Applications, 2011, 62, 1442-1450.	2.8	191
25	On Fractional Derivatives with Exponential Kernel and their Discrete Versions. Reports on Mathematical Physics, 2017, 80, 11-27.	0.8	191
26	Analysis of regularized long-wave equation associated with a new fractional operator with Mittag-Leffler type kernel. Physica A: Statistical Mechanics and Its Applications, 2018, 492, 155-167.	2.6	187
27	New variable-order fractional chaotic systems for fast image encryption. Chaos, 2019, 29, 083103.	2.5	185
28	Analysis of the model of HIV-1 infection of $CD4^{+}$ T-cell with a new approach of fractional derivative. Advances in Difference Equations, 2020, 2020, .	3.5	183
29	On the analysis of vibration equation involving a fractional derivative with Mittagâ€Leffler law. Mathematical Methods in the Applied Sciences, 2020, 43, 443-457.	2.2	177
30	A spectral tau algorithm based on Jacobi operational matrix for numerical solution of time fractional diffusion-wave equations. Journal of Computational Physics, 2015, 293, 142-156.	3.9	176
31	Chaos analysis and asymptotic stability of generalized Caputo fractional differential equations. Chaos, Solitons and Fractals, 2017, 102, 99-105.	5.1	176
32	A new fractional analysis on the interaction of HIV with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msup><mml:mtext>CD4</mml:mtext><mml:mo>+</mml:mo></mml:msup></mml:math>T-cells. Chaos, Solitons and Fractals, 2018, 113, 221-229.	5.1	174
33	The Hamilton formalism with fractional derivatives. Journal of Mathematical Analysis and Applications, 2007, 327, 891-897.	1.0	169
34	Chaos synchronization of the discrete fractional logistic map. Signal Processing, 2014, 102, 96-99.	3.8	168
35	New exact solutions of Burgersâ€™ type equations with conformable derivative. Waves in Random and Complex Media, 2017, 27, 103-116.	2.8	166
36	On exact traveling-wave solutions for local fractional Korteweg-de Vries equation. Chaos, 2016, 26, 084312.	2.5	165

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37	EXACT TRAVELING-WAVE SOLUTION FOR LOCAL FRACTIONAL BOUSSINESQ EQUATION IN FRACTAL DOMAIN. Fractals, 2017, 25, 1740006.	3.7	165
38	Hamiltonian formulation of systems with linear velocities within Riemannâ€“Liouville fractional derivatives. Journal of Mathematical Analysis and Applications, 2005, 304, 599-606.	1.0	164
39	Two analytical methods for time-fractional nonlinear coupled Boussinesqâ€“Burgerâ€™s equations arise in propagation of shallow water waves. Nonlinear Dynamics, 2016, 85, 699-715.	5.3	164
40	Fractional modeling of blood ethanol concentration system with real data application. Chaos, 2019, 29, 013143.	2.5	162
41	A Central Difference Numerical Scheme for Fractional Optimal Control Problems. JVC/Journal of Vibration and Control, 2009, 15, 583-597.	2.6	161
42	Chaos synchronization of fractional chaotic maps based on the stability condition. Physica A: Statistical Mechanics and Its Applications, 2016, 460, 374-383.	2.6	159
43	Discrete fractional differences with nonsingular discrete Mittag-Leffler kernels. Advances in Difference Equations, 2016, 2016, .	3.5	150
44	On high order fractional integro-differential equations including the Caputoâ€“Fabrizio derivative. Boundary Value Problems, 2018, 2018, .	0.7	150
45	On fractional integro-differential inclusions via the extended fractional Caputoâ€“Fabrizio derivation. Boundary Value Problems, 2019, 2019, .	0.7	150
46	A new adaptive synchronization and hyperchaos control of a biological snap oscillator. Chaos, Solitons and Fractals, 2020, 138, 109919.	5.1	149
47	On the global existence of solutions to a class of fractional differential equations. Computers and Mathematics With Applications, 2010, 59, 1835-1841.	2.8	148
48	A new fractional modelling and control strategy for the outbreak of dengue fever. Physica A: Statistical Mechanics and Its Applications, 2019, 535, 122524.	2.6	148
49	On Fractional Operators and Their Classifications. Mathematics, 2019, 7, 830.	2.3	147
50	A new and efficient numerical method for the fractional modeling and optimal control of diabetes and tuberculosis co-existence. Chaos, 2019, 29, 093111.	2.5	146
51	An Efficient Numerical Method for Fractional SIR Epidemic Model of Infectious Disease by Using Bernstein Wavelets. Mathematics, 2020, 8, 558.	2.3	145
52	Some existence results on nonlinear fractional differential equations. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120144.	3.4	143
53	Stability analysis of Caputoâ€“like discrete fractional systems. Communications in Nonlinear Science and Numerical Simulation, 2017, 48, 520-530.	3.3	141
54	On the existence of solutions for some infinite coefficient-symmetric Caputo-Fabrizio fractional integro-differential equations. Boundary Value Problems, 2017, 2017, .	0.7	138

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55	A fractional differential equation model for the COVID-19 transmission by using the Caputoâ€“Fabrizio derivative. Advances in Difference Equations, 2020, 2020, 299.	3.5	137
56	Fractional hamilton formalism within caputoâ€™s derivative. European Physical Journal D, 2006, 56, 1087-1092.	0.4	136
57	Cantor-type cylindrical-coordinate method for differential equations with local fractional derivatives. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 1696-1700.	2.2	134
58	A survey on fuzzy fractional differential and optimal control nonlocal evolution equations. Journal of Computational and Applied Mathematics, 2018, 339, 3-29.	2.0	134
59	On an accurate discretization of a variable-order fractional reaction-diffusion equation. Communications in Nonlinear Science and Numerical Simulation, 2019, 69, 119-133.	3.3	133
60	On the nonlinear dynamical systems within the generalized fractional derivatives with Mittagâ€“Leffler kernel. Nonlinear Dynamics, 2018, 94, 397-414.	5.3	132
61	An efficient numerical algorithm for the fractional Drinfeldâ€“Sokolovâ€“Wilson equation. Applied Mathematics and Computation, 2018, 335, 12-24.	2.2	132
62	Generalized exponential rational function method for extended Zakharovâ€“Kuzetsov equation with conformable derivative. Modern Physics Letters A, 2019, 34, 1950155.	1.2	132
63	A new stochastic computing paradigm for the dynamics of nonlinear singular heat conduction model of the human head. European Physical Journal Plus, 2018, 133, 1.	2.6	131
64	New Solitary Wave Solutions for Variants of (3+1)-Dimensional Wazwaz-Benjamin-Bona-Mahony Equations. Frontiers in Physics, 2020, 8, .	2.1	131
65	On fractional calculus with general analytic kernels. Applied Mathematics and Computation, 2019, 354, 248-265.	2.2	130
66	Traveling wave solutions to nonlinear directional couplers by modified Kudryashov method. Physica Scripta, 2020, 95, 075217.	2.5	130
67	Solving the fractional order Bloch equation. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2009, 34A, 16-23.	0.5	128
68	Variational iteration method for the Burgersâ€™ flow with fractional derivativesâ€”New Lagrange multipliers. Applied Mathematical Modelling, 2013, 37, 6183-6190.	4.3	128
69	On Analytical Solutions of the Fractional Differential Equation with Uncertainty: Application to the Basset Problem. Entropy, 2015, 17, 885-902.	2.2	127
70	Numerical simulation of initial value problems with generalized Caputo-type fractional derivatives. Applied Numerical Mathematics, 2020, 156, 94-105.	2.2	126
71	A new fractional model for giving up smoking dynamics. Advances in Difference Equations, 2017, 2017, .	3.5	125
72	Lyapunov functions for Riemannâ€“Liouville-like fractional difference equations. Applied Mathematics and Computation, 2017, 314, 228-236.	2.2	125

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73	A new approach for solving multi variable orders differential equations with Mittagâ€“Leffler kernel. Chaos, Solitons and Fractals, 2020, 130, 109405.	5.1	125
74	On the fractional optimal control problems with a general derivative operator. Asian Journal of Control, 2021, 23, 1062-1071.	3.0	124
75	Discrete chaos in fractional delayed logistic maps. Nonlinear Dynamics, 2015, 80, 1697-1703.	5.3	122
76	The fractional features of a harmonic oscillator with position-dependent mass. Communications in Theoretical Physics, 2020, 72, 055002.	2.5	122
77	A new numerical algorithm for fractional Fitzhughâ€“Nagumo equation arising in transmission of nerve impulses. Nonlinear Dynamics, 2018, 91, 307-317.	5.3	121
78	New aspects of fractional Biswasâ€“Milovic model with Mittag-Leffler law. Mathematical Modelling of Natural Phenomena, 2019, 14, 303.	2.3	121
79	Discrete chaos in fractional sine and standard maps. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 484-487.	2.2	119
80	Fractional Optimal Control Problems with Several State and Control Variables. JVC/Journal of Vibration and Control, 2010, 16, 1967-1976.	2.6	117
81	Local fractional similarity solution for the diffusion equation defined on Cantor sets. Applied Mathematics Letters, 2015, 47, 54-60.	2.8	115
82	A new approach for solving a system of fractional partial differential equations. Computers and Mathematics With Applications, 2013, 66, 838-843.	2.8	114
83	Series representations for fractional-calculus operators involving generalised Mittag-Leffler functions. Communications in Nonlinear Science and Numerical Simulation, 2019, 67, 517-527.	3.3	114
84	Modeling the dynamics of hepatitis E <i>via</i> the Caputoâ€“Fabrizio derivative. Mathematical Modelling of Natural Phenomena, 2019, 14, 311.	2.3	113
85	Numerical solutions of the fractional Fisherâ€™s type equations with Atangana-Baleanu fractional derivative by using spectral collocation methods. Chaos, 2019, 29, 023116.	2.5	113
86	A general fractional formulation and tracking control for immunogenic tumor dynamics. Mathematical Methods in the Applied Sciences, 2022, 45, 667-680.	2.2	113
87	Fractional Bloch equation with delay. Computers and Mathematics With Applications, 2011, 61, 1355-1365.	2.8	110
88	Jacobian matrix algorithm for Lyapunov exponents of the discrete fractional maps. Communications in Nonlinear Science and Numerical Simulation, 2015, 22, 95-100.	3.3	110
89	A new fractional SIRS-SI malaria disease model with application of vaccines, antimalarial drugs, and spraying. Advances in Difference Equations, 2019, 2019, .	3.5	110
90	A new fractional HRSV model and its optimal control: A non-singular operator approach. Physica A: Statistical Mechanics and Its Applications, 2020, 547, 123860.	2.6	109

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91	A new method for investigating approximate solutions of some fractional integro-differential equations involving the Caputo-Fabrizio derivative. Advances in Difference Equations, 2017, 2017, .	3.5	108
92	Lump, lump-one stripe, multiwave and breather solutions for the Hunterâ€"Saxton equation. Open Physics, 2021, 19, 1-10.	1.8	108
93	A novel expansion iterative method for solving linear partial differential equations of fractional order. Applied Mathematics and Computation, 2015, 257, 119-133.	2.2	107
94	Double-wave solutions and Lie symmetry analysis to the (2Â+Â1)-dimensional coupled Burgers equations. Chinese Journal of Physics, 2020, 63, 122-129.	3.9	107
95	Solving differential equations of fractional order using an optimization technique based on training artificial neural network. Applied Mathematics and Computation, 2017, 293, 81-95.	2.2	106
96	A New Iterative Method for the Numerical Solution of High-Order Non-linear Fractional Boundary Value Problems. Frontiers in Physics, 2020, 8, .	2.1	106
97	On nonlinear fractional Kleinâ€"Gordon equation. Signal Processing, 2011, 91, 446-451.	3.8	105
98	On the analysis of fractional diabetes model with exponential law. Advances in Difference Equations, 2018, 2018, .	3.5	105
99	Analyzing transient response of the parallel RCL circuit by using the Caputoâ€"Fabrizio fractional derivative. Advances in Difference Equations, 2020, 2020, .	3.5	105
100	On a new and generalized fractional model for a real cholera outbreak. AEJ - Alexandria Engineering Journal, 2022, 61, 9175-9186.	6.6	104
101	Caputo q-fractional initial value problems and a q-analogue Mittagâ€"Leffler function. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 4682-4688.	3.3	103
102	A hybrid computational approach for Kleinâ€"Gordon equations on Cantor sets. Nonlinear Dynamics, 2017, 87, 511-517.	5.3	101
103	On exact solutions of a class of fractional Eulerâ€"Lagrange equations. Nonlinear Dynamics, 2008, 52, 331-335.	5.3	100
104	A new fractional derivative involving the normalized sinc function without singular kernel. European Physical Journal: Special Topics, 2017, 226, 3567-3575.	2.6	100
105	Analytical and numerical study of the DNA dynamics arising in oscillator-chain of Peyrard-Bishop model. Chaos, Solitons and Fractals, 2020, 139, 110089.	5.1	100
106	Complete synchronization of commensurate fractional order chaotic systems using sliding mode control. Mechatronics, 2013, 23, 873-879.	3.3	99
107	On the analysis of chemical kinetics system pertaining to a fractional derivative with Mittag-Leffler type kernel. Chaos, 2017, 27, 103113.	2.5	99
108	Two-strain epidemic model involving fractional derivative with Mittag-Leffler kernel. Chaos, 2018, 28, 123121.	2.5	99

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109	New fractional derivatives with non-singular kernel applied to the Burgers equation. Chaos, 2018, 28, 063109.	2.5	98
110	Hyperchaotic behaviors, optimal control, and synchronization of a nonautonomous cardiac conduction system. Advances in Difference Equations, 2021, 2021, .	3.5	98
111	An existence result for a superlinear fractional differential equation. Applied Mathematics Letters, 2010, 23, 1129-1132.	2.8	97
112	A new analysis of fractional fish farm model associated with Mittag-Leffler-type kernel. International Journal of Biomathematics, 2020, 13, 2050010.	3.0	97
113	On a fractional hybrid integro-differential equation with mixed hybrid integral boundary value conditions by using three operators. AEJ - Alexandria Engineering Journal, 2020, 59, 3019-3027.	6.6	96
114	The new exact solitary wave solutions and stability analysis for the (2 + 1) $(2+1)$ -dimensional Zakharovâ€"Kuznetsov equation. Advances in Difference Equations, 2019, 2019, .	3.5	95
115	System of fractional differential algebraic equations with applications. Chaos, Solitons and Fractals, 2019, 120, 203-212.	5.1	95
116	A new analysis for fractional model of regularized longâ€wave equation arising in ion acoustic plasma waves. Mathematical Methods in the Applied Sciences, 2017, 40, 5642-5653.	2.2	94
117	Beta-derivative and sub-equation method applied to the optical solitons in medium with parabolic law nonlinearity and higher order dispersion. Optik, 2018, 155, 357-365.	2.9	94
118	Analysis of a fractional model of the Ambartsumian equation. European Physical Journal Plus, 2018, 133, 1.	2.6	93
119	Mittag-Leffler Stability Theorem for Fractional Nonlinear Systems with Delay. Abstract and Applied Analysis, 2010, 2010, 1-7.	0.7	92
120	Analytical Solutions of the Electrical RLC Circuit via Liouvilleâ€"Caputo Operators with Local and Non-Local Kernels. Entropy, 2016, 18, 402.	2.2	91
121	Monotonicity results for fractional difference operators with discrete exponential kernels. Advances in Difference Equations, 2017, 2017, .	3.5	91
122	Time-fractional Cahnâ€"Allen and time-fractional Kleinâ€"Gordon equations: Lie symmetry analysis, explicit solutions and convergence analysis. Physica A: Statistical Mechanics and Its Applications, 2018, 493, 94-106.	2.6	91
123	A new and general fractional Lagrangian approach: A capacitor microphone case study. Results in Physics, 2021, 31, 104950.	4.1	91
124	A new analysis of the Fornberg-Whitham equation pertaining to a fractional derivative with Mittag-Leffler-type kernel. European Physical Journal Plus, 2018, 133, 1.	2.6	90
125	An efficient computational approach for a fractional-order biological population model with carrying capacity. Chaos, Solitons and Fractals, 2020, 138, 109880.	5.1	90
126	A nonstandard finite difference scheme for the modeling and nonidentical synchronization of a novel fractional chaotic system. Advances in Difference Equations, 2021, 2021, .	3.5	89

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127	Existence and uniqueness results for fractional differential equations with uncertainty. Advances in Difference Equations, 2012, 2012, .	3.5	88
128	Laplace homotopy analysis method for solving linear partial differential equations using a fractional derivative with and without kernel singular. Advances in Difference Equations, 2016, 2016, .	3.5	88
129	New aspects of the adaptive synchronization and hyperchaos suppression of a financial model. Chaos, Solitons and Fractals, 2017, 99, 285-296.	5.1	88
130	Lie symmetry analysis, exact solutions and conservation laws for the time fractional Caudreyâ€“Doddâ€“Gibbonâ€“Sawadaâ€“Kotera equation. Communications in Nonlinear Science and Numerical Simulation, 2018, 59, 222-234.	3.3	88
131	A New Feature of the Fractional Eulerâ€“Lagrange Equations for a Coupled Oscillator Using a Nonsingular Operator Approach. Frontiers in Physics, 2019, 7, .	2.1	88
132	Second-order fast terminal sliding mode control design based on LMI for a class of non-linear uncertain systems and its application to chaotic systems. JVC/Journal of Vibration and Control, 2017, 23, 2912-2925.	2.6	87
133	Uncertain viscoelastic models with fractional order: A new spectral tau method to study the numerical simulations of the solution. Communications in Nonlinear Science and Numerical Simulation, 2017, 53, 44-64.	3.3	87
134	Collocation methods for fractional differential equations involving non-singular kernel. Chaos, Solitons and Fractals, 2018, 116, 136-145.	5.1	87
135	Analysis of differential equations involving Caputoâ€“Fabrizio fractional operator and its applications to reactionâ€“diffusion equations. Advances in Difference Equations, 2019, 2019, .	3.5	87
136	A new Jacobi rationalâ€“Gauss collocation method for numerical solution of generalized pantograph equations. Applied Numerical Mathematics, 2014, 77, 43-54.	2.2	86
137	On a nonlinear dynamical system with both chaotic and nonchaotic behaviors: a new fractional analysis and control. Advances in Difference Equations, 2021, 2021, .	3.5	86
138	On electromagnetic field in fractional space. Nonlinear Analysis: Real World Applications, 2010, 11, 288-292.	1.7	84
139	A Jacobi operational matrix for solving a fuzzy linear fractional differential equation. Advances in Difference Equations, 2013, 2013, .	3.5	84
140	On the local fractional wave equation in fractal strings. Mathematical Methods in the Applied Sciences, 2019, 42, 1588-1595.	2.2	84
141	A new method of finding the fractional Eulerâ€“Lagrange and Hamilton equations within Caputo fractional derivatives. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 1111-1115.	3.3	83
142	Suboptimal control of fractional-order dynamic systems with delay argument. JVC/Journal of Vibration and Control, 2018, 24, 2430-2446.	2.6	83
143	New aspects of poor nutrition in the life cycle within the fractional calculus. Advances in Difference Equations, 2018, 2018, .	3.5	83
144	On fractional Eulerâ€“Lagrange and Hamilton equations andÂthe fractional generalization of total time derivative. Nonlinear Dynamics, 2008, 53, 67-74.	5.3	82

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145	New spectral techniques for systems of fractional differential equations using fractional-order generalized Laguerre orthogonal functions. Fractional Calculus and Applied Analysis, 2014, 17, 1137-1157.	2.3	82
146	Chaos in the fractional order nonlinear Bloch equation with delay. Communications in Nonlinear Science and Numerical Simulation, 2015, 25, 41-49.	3.3	82
147	Modeling and simulation of the fractional space-time diffusion equation. Communications in Nonlinear Science and Numerical Simulation, 2016, 30, 115-127.	3.3	82
148	New features of the fractional Euler-Lagrange equations for a physical system within non-singular derivative operator. European Physical Journal Plus, 2019, 134, 1.	2.6	82
149	Stability of -fractional non-autonomous systems. Nonlinear Analysis: Real World Applications, 2013, 14, 780-784.	1.7	81
150	Fractional Impulsive Differential Equations: Exact Solutions, Integral Equations and Short Memory Case. Fractional Calculus and Applied Analysis, 2019, 22, 180-192.	2.3	81
151	On exact solutions for time-fractional Korteweg-de Vries and Korteweg-de Vries-Burgerâ€™s equations using homotopy analysis transform method. Chinese Journal of Physics, 2020, 63, 149-162.	3.9	81
152	On approximate solutions for two higher-order Caputo-Fabrizio fractional integro-differential equations. Advances in Difference Equations, 2017, 2017, .	3.5	79
153	LMI-based stabilization of a class of fractional-order chaotic systems. Nonlinear Dynamics, 2013, 72, 301-309.	5.3	78
154	New analytical wave structures for the (3â€¯+â€¯1)-dimensional Kadomtsev-Petviashvili and the generalized Boussinesq models and their applications. Results in Physics, 2019, 14, 102491.	4.1	78
155	Analytical and numerical solutions of mathematical biology models: The Newellâ€Whiteheadâ€Segel and Allenâ€Cahn equations. Mathematical Methods in the Applied Sciences, 2020, 43, 2588-2600.	2.2	77
156	Stationary distribution and extinction of stochastic coronavirus (COVID-19) epidemic model. Chaos, Solitons and Fractals, 2020, 139, 110036.	5.1	77
157	On the solution set for a class of sequential fractional differential equations. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 385209.	2.1	76
158	Fractional LiÃ©nard type model of a pipeline within the fractional derivative without singular kernel. Advances in Difference Equations, 2016, 2016, .	3.5	76
159	A Chebyshev spectral method based on operational matrix for fractional differential equations involving non-singular Mittag-Leffler kernel. Advances in Difference Equations, 2018, 2018, .	3.5	76
160	Entropy Generation and Consequences of MHD in Darcyâ€“Forchheimer Nanofluid Flow Bounded by Non-Linearly Stretching Surface. Symmetry, 2020, 12, 652.	2.2	76
161	A Spectral Legendreâ€“Gaussâ€“Lobatto Collocation Method for a Space-Fractional Advection Diffusion Equations with Variable Coefficients. Reports on Mathematical Physics, 2013, 72, 219-233.	0.8	75
162	Positivity-preserving sixth-order implicit finite difference weighted essentially non-oscillatory scheme for the nonlinear heat equation. Applied Mathematics and Computation, 2018, 325, 146-158.	2.2	75

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163	Optimal control for a fractional tuberculosis infection model including the impact of diabetes and resistant strains. Journal of Advanced Research, 2019, 17, 125-137.	9.8	75
164	Fractional Electromagnetic Equations Using Fractional Forms. International Journal of Theoretical Physics, 2009, 48, 3114-3123.	1.2	74
165	A New Formulation of the Fractional Optimal Control Problems Involving Mittagâ€“Leffler Nonsingular Kernel. Journal of Optimization Theory and Applications, 2017, 175, 718-737.	1.5	74
166	Quasi-periodic, chaotic and travelling wave structures of modified Gardner equation. Chaos, Solitons and Fractals, 2021, 143, 110578.	5.1	74
167	Novel hyperbolic and exponential ansatz methods to the fractional fifth-order Kortewegâ€“de Vries equations. Advances in Difference Equations, 2020, 2020, .	3.5	74
168	Solving multi-dimensional fractional optimal control problems with inequality constraint by Bernstein polynomials operational matrices. JVC/Journal of Vibration and Control, 2013, 19, 2523-2540.	2.6	73
169	An Efficient Computational Technique for Fractal Vehicular Traffic Flow. Entropy, 2018, 20, 259.	2.2	73
170	New Optical Solutions of the Fractional Gerdjikov-Ivanov Equation With Conformable Derivative. Frontiers in Physics, 2020, 8, .	2.1	73
171	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
172	On the accurate discretization of a highly nonlinear boundary value problem. Numerical Algorithms, 2018, 79, 679-695.	1.9	71
173	Chaos in a Cancer Model via Fractional Derivatives with Exponential Decay and Mittag-Leffler Law. Entropy, 2017, 19, 681.	2.2	70
174	New fractional derivatives applied to the Kortewegâ€“de Vries and Kortewegâ€“de Vriesâ€“Burgerâ€™s equations. Computational and Applied Mathematics, 2018, 37, 5203-5216.	1.3	70
175	Collocation methods for terminal value problems of tempered fractional differential equations. Applied Numerical Mathematics, 2020, 156, 385-395.	2.2	69
176	Monotonicity analysis of a nabla discrete fractional operator with discrete Mittag-Leffler kernel. Chaos, Solitons and Fractals, 2017, 102, 106-110.	5.1	69
177	The Motion of a Bead Sliding on a Wire in Fractional Sense. Acta Physica Polonica A, 2017, 131, 1561-1564.	0.5	69
178	Formulation of Hamiltonian Equations for Fractional Variational Problems. European Physical Journal D, 2005, 55, 633-642.	0.4	68
179	About fractional quantization and fractional variational principles. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 2520-2523.	3.3	68
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