

# Dumitru Baleanu

## List of Publications by Year in descending order

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1,336  
papers

50,013  
citations

2215

99  
h-index

6471

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. <i>Thermal Science</i> , 2016, 20, 763-769.	1.1	2,557
2	A new collection of real world applications of fractional calculus in science and engineering. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018, 64, 213-231.	3.3	1,042
3	A new study on the mathematical modelling of human liver with Caputo-Fabrizio fractional derivative. <i>Chaos, Solitons and Fractals</i> , 2020, 134, 109705.	5.1	534
4	Discrete fractional logistic map and its chaos. <i>Nonlinear Dynamics</i> , 2014, 75, 283-287.	5.2	383
5	Anomalous diffusion expressed through fractional order differential operators in the Bloch-Torrey equation. <i>Journal of Magnetic Resonance</i> , 2008, 190, 255-270.	2.1	375
6	New properties of conformable derivative. <i>Open Mathematics</i> , 2015, 13, .	1.0	355
7	New Derivatives on the Fractal Subset of Real-Line. <i>Entropy</i> , 2016, 18, 1.	2.2	315
8	On a new class of fractional operators. <i>Advances in Difference Equations</i> , 2017, 2017, .	3.5	266
9	Stability analysis of Caputo fractional-order nonlinear systems revisited. <i>Nonlinear Dynamics</i> , 2012, 67, 2433-2439.	5.2	252
10	A Hamiltonian Formulation and a Direct Numerical Scheme for Fractional Optimal Control Problems. <i>JVC/Journal of Vibration and Control</i> , 2007, 13, 1269-1281.	2.6	241
11	Caputo-type modification of the Hadamard fractional derivatives. <i>Advances in Difference Equations</i> , 2012, 2012, .	3.5	237
12	On some new properties of fractional derivatives with Mittag-Leffler kernel. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018, 59, 444-462.	3.3	237
13	Fractal heat conduction problem solved by local fractional variation iteration method. <i>Thermal Science</i> , 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. <i>Journal of Nonlinear Science and Applications</i> , 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. <i>Chaos</i> , 2019, 29, 083127.	2.5	211
16	Lagrangian Formulation of Classical Fields within Riemann-Liouville Fractional Derivatives. <i>Physica Scripta</i> , 2005, 72, 119-121.	2.5	203
17	Caputo-Fabrizio Derivative Applied to Groundwater Flow within Confined Aquifer. <i>Journal of Engineering Mechanics - ASCE</i> , 2017, 143, .	2.9	200
18	A hybrid Caputo fractional modeling for thermostat with hybrid boundary value conditions. <i>Boundary Value Problems</i> , 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.	4.8	193
21	On a Fractional Operator Combining Proportional and Classical Differintegrals. Mathematics, 2020, 8, 360.	2.2	193
22	Analysis of time-fractional hunter-saxton equation: a model of neumatic liquid crystal. Open Physics, 2016, 14, 145-149.	1.7	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.	2.7	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 Mittag-Leffler law. Mathematical Methods in the Applied Sciences, 2020, 43, 443-457.	2.3	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.	3.8	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 $CD4^{+}$ 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.	3.7	168
35	New exact solutions of Burgers's type equations with conformable derivative. Waves in Random and Complex Media, 2017, 27, 103-116.	2.7	166
36	On exact traveling-wave solutions for local fractional Korteweg-de Vries equation. Chaos, 2016, 26, 084312.	2.5	165

#	ARTICLE	IF	CITATIONS
37	EXACT TRAVELING-WAVE SOLUTION FOR LOCAL FRACTIONAL BOUSSINESQ EQUATION IN FRACTAL DOMAIN. <i>Fractals</i> , 2017, 25, 1740006.	3.7	165
38	Hamiltonian formulation of systems with linear velocities within Riemannâ€“Liouville fractional derivatives. <i>Journal of Mathematical Analysis and Applications</i> , 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. <i>Nonlinear Dynamics</i> , 2016, 85, 699-715.	5.2	164
40	Fractional modeling of blood ethanol concentration system with real data application. <i>Chaos</i> , 2019, 29, 013143.	2.5	162
41	A Central Difference Numerical Scheme for Fractional Optimal Control Problems. <i>JVC/Journal of Vibration and Control</i> , 2009, 15, 583-597.	2.6	161
42	Chaos synchronization of fractional chaotic maps based on the stability condition. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 460, 374-383.	2.6	159
43	Discrete fractional differences with nonsingular discrete Mittag-Leffler kernels. <i>Advances in Difference Equations</i> , 2016, 2016, .	3.5	150
44	On high order fractional integro-differential equations including the Caputoâ€“Fabrizio derivative. <i>Boundary Value Problems</i> , 2018, 2018, .	0.7	150
45	On fractional integro-differential inclusions via the extended fractional Caputoâ€“Fabrizio derivation. <i>Boundary Value Problems</i> , 2019, 2019, .	0.7	150
46	A new adaptive synchronization and hyperchaos control of a biological snap oscillator. <i>Chaos, Solitons and Fractals</i> , 2020, 138, 109919.	5.1	149
47	On the global existence of solutions to a class of fractional differential equations. <i>Computers and Mathematics With Applications</i> , 2010, 59, 1835-1841.	2.7	148
48	A new fractional modelling and control strategy for the outbreak of dengue fever. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 535, 122524.	2.6	148
49	On Fractional Operators and Their Classifications. <i>Mathematics</i> , 2019, 7, 830.	2.2	147
50	A new and efficient numerical method for the fractional modeling and optimal control of diabetes and tuberculosis co-existence. <i>Chaos</i> , 2019, 29, 093111.	2.5	146
51	An Efficient Numerical Method for Fractional SIR Epidemic Model of Infectious Disease by Using Bernstein Wavelets. <i>Mathematics</i> , 2020, 8, 558.	2.2	145
52	Some existence results on nonlinear fractional differential equations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120144.	3.4	143
53	Stability analysis of Caputoâ€“like discrete fractional systems. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 48, 520-530.	3.3	141
54	On the existence of solutions for some infinite coefficient-symmetric Caputo-Fabrizio fractional integro-differential equations. <i>Boundary Value Problems</i> , 2017, 2017, .	0.7	138

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55	A fractional differential equation model for the COVID-19 transmission by using the Caputo's derivative. <i>Advances in Difference Equations</i> , 2020, 2020, 299.	3.5	137
56	Fractional hamilton formalism within caputo's derivative. <i>European Physical Journal D</i> , 2006, 56, 1087-1092.	0.4	136
57	Cantor-type cylindrical-coordinate method for differential equations with local fractional derivatives. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 1696-1700.	2.1	134
58	A survey on fuzzy fractional differential and optimal control nonlocal evolution equations. <i>Journal of Computational and Applied Mathematics</i> , 2018, 339, 3-29.	2.0	134
59	On an accurate discretization of a variable-order fractional reaction-diffusion equation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 69, 119-133.	3.3	133
60	On the nonlinear dynamical systems within the generalized fractional derivatives with Mittag-Leffler kernel. <i>Nonlinear Dynamics</i> , 2018, 94, 397-414.	5.2	132
61	An efficient numerical algorithm for the fractional Drinfeld-Sokolov-Wilson equation. <i>Applied Mathematics and Computation</i> , 2018, 335, 12-24.	2.2	132
62	Generalized exponential rational function method for extended Zakharov-Kuznetsov equation with conformable derivative. <i>Modern Physics Letters A</i> , 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. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	131
64	New Solitary Wave Solutions for Variants of (3+1)-Dimensional Wazwaz-Benjamin-Bona-Mahony Equations. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	131
65	On fractional calculus with general analytic kernels. <i>Applied Mathematics and Computation</i> , 2019, 354, 248-265.	2.2	130
66	Traveling wave solutions to nonlinear directional couplers by modified Kudryashov method. <i>Physica Scripta</i> , 2020, 95, 075217.	2.5	130
67	Solving the fractional order Bloch equation. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2009, 34A, 16-23.	0.5	128
68	Variational iteration method for the Burgers' flow with fractional derivatives' New Lagrange multipliers. <i>Applied Mathematical Modelling</i> , 2013, 37, 6183-6190.	4.2	128
69	On Analytical Solutions of the Fractional Differential Equation with Uncertainty: Application to the Basset Problem. <i>Entropy</i> , 2015, 17, 885-902.	2.2	127
70	Numerical simulation of initial value problems with generalized Caputo-type fractional derivatives. <i>Applied Numerical Mathematics</i> , 2020, 156, 94-105.	2.1	126
71	A new fractional model for giving up smoking dynamics. <i>Advances in Difference Equations</i> , 2017, 2017, .	3.5	125
72	Lyapunov functions for Riemann-Liouville-like fractional difference equations. <i>Applied Mathematics and Computation</i> , 2017, 314, 228-236.	2.2	125

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73	A new approach for solving multi variable orders differential equations with Mittag-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.	5.2	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 Fitzhugh-Nagumo equation arising in transmission of nerve impulses. Nonlinear Dynamics, 2018, 91, 307-317.	5.2	121
78	New aspects of fractional Biswas-Milovic model with Mittag-Leffler law. Mathematical Modelling of Natural Phenomena, 2019, 14, 303.	2.4	121
79	Discrete chaos in fractional sine and standard maps. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 484-487.	2.1	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.	2.7	115
82	A new approach for solving a system of fractional partial differential equations. Computers and Mathematics With Applications, 2013, 66, 838-843.	2.7	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 via the Caputo-Fabrizio derivative. Mathematical Modelling of Natural Phenomena, 2019, 14, 311.	2.4	113
85	Numerical solutions of the fractional Fisher'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.	2.3	113
87	Fractional Bloch equation with delay. Computers and Mathematics With Applications, 2011, 61, 1355-1365.	2.7	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. <i>Advances in Difference Equations</i> , 2017, 2017, .	3.5	108
92	Lump, lump-one stripe, multiwave and breather solutions for the Hunter-Saxton equation. <i>Open Physics</i> , 2021, 19, 1-10.	1.7	108
93	A novel expansion iterative method for solving linear partial differential equations of fractional order. <i>Applied Mathematics and Computation</i> , 2015, 257, 119-133.	2.2	107
94	Double-wave solutions and Lie symmetry analysis to the $(2\hat{A}+1)$ -dimensional coupled Burgers equations. <i>Chinese Journal of Physics</i> , 2020, 63, 122-129.	3.9	107
95	Solving differential equations of fractional order using an optimization technique based on training artificial neural network. <i>Applied Mathematics and Computation</i> , 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. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	106
97	On nonlinear fractional Klein-Gordon equation. <i>Signal Processing</i> , 2011, 91, 446-451.	3.7	105
98	On the analysis of fractional diabetes model with exponential law. <i>Advances in Difference Equations</i> , 2018, 2018, .	3.5	105
99	Analyzing transient response of the parallel RCL circuit by using the Caputo-Fabrizio fractional derivative. <i>Advances in Difference Equations</i> , 2020, 2020, .	3.5	105
100	On a new and generalized fractional model for a real cholera outbreak. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 9175-9186.	6.4	104
101	Caputo q-fractional initial value problems and a q-analogue Mittag-Leffler function. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011, 16, 4682-4688.	3.3	103
102	A hybrid computational approach for Klein-Gordon equations on Cantor sets. <i>Nonlinear Dynamics</i> , 2017, 87, 511-517.	5.2	101
103	On exact solutions of a class of fractional Euler-Lagrange equations. <i>Nonlinear Dynamics</i> , 2008, 52, 331-335.	5.2	100
104	A new fractional derivative involving the normalized sinc function without singular kernel. <i>European Physical Journal: Special Topics</i> , 2017, 226, 3567-3575.	2.6	100
105	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.	5.1	100
106	Complete synchronization of commensurate fractional order chaotic systems using sliding mode control. <i>Mechatronics</i> , 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. <i>Chaos</i> , 2017, 27, 103113.	2.5	99
108	Two-strain epidemic model involving fractional derivative with Mittag-Leffler kernel. <i>Chaos</i> , 2018, 28, 123121.	2.5	99

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109	New fractional derivatives with non-singular kernel applied to the Burgers equation. <i>Chaos</i> , 2018, 28, 063109.	2.5	98
110	Hyperchaotic behaviors, optimal control, and synchronization of a nonautonomous cardiac conduction system. <i>Advances in Difference Equations</i> , 2021, 2021, .	3.5	98
111	An existence result for a superlinear fractional differential equation. <i>Applied Mathematics Letters</i> , 2010, 23, 1129-1132.	2.7	97
112	A new analysis of fractional fish farm model associated with Mittag-Leffler-type kernel. <i>International Journal of Biomathematics</i> , 2020, 13, 2050010.	2.9	97
113	On a fractional hybrid integro-differential equation with mixed hybrid integral boundary value conditions by using three operators. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 3019-3027.	6.4	96
114	The new exact solitary wave solutions and stability analysis for the $(2 + 1)$ -dimensional Zakharov-Kuznetsov equation. <i>Advances in Difference Equations</i> , 2019, 2019, .	3.5	95
115	System of fractional differential algebraic equations with applications. <i>Chaos, Solitons and Fractals</i> , 2019, 120, 203-212.	5.1	95
116	A new analysis for fractional model of regularized long-wave equation arising in ion acoustic plasma waves. <i>Mathematical Methods in the Applied Sciences</i> , 2017, 40, 5642-5653.	2.3	94
117	Beta-derivative and sub-equation method applied to the optical solitons in medium with parabolic law nonlinearity and higher order dispersion. <i>Optik</i> , 2018, 155, 357-365.	2.9	94
118	Analysis of a fractional model of the Ambartsumian equation. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	93
119	Mittag-Leffler Stability Theorem for Fractional Nonlinear Systems with Delay. <i>Abstract and Applied Analysis</i> , 2010, 2010, 1-7.	0.7	92
120	Analytical Solutions of the Electrical RLC Circuit via Liouville-Caputo Operators with Local and Non-Local Kernels. <i>Entropy</i> , 2016, 18, 402.	2.2	91
121	Monotonicity results for fractional difference operators with discrete exponential kernels. <i>Advances in Difference Equations</i> , 2017, 2017, .	3.5	91
122	Time-fractional Cahn-Allen and time-fractional Klein-Gordon equations: Lie symmetry analysis, explicit solutions and convergence analysis. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 493, 94-106.	2.6	91
123	A new and general fractional Lagrangian approach: A capacitor microphone case study. <i>Results in Physics</i> , 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. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	90
125	An efficient computational approach for a fractional-order biological population model with carrying capacity. <i>Chaos, Solitons and Fractals</i> , 2020, 138, 109880.	5.1	90
126	A nonstandard finite difference scheme for the modeling and nonidentical synchronization of a novel fractional chaotic system. <i>Advances in Difference Equations</i> , 2021, 2021, .	3.5	89



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127	Existence and uniqueness results for fractional differential equations with uncertainty. <i>Advances in Difference Equations</i> , 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. <i>Advances in Difference Equations</i> , 2016, 2016, .	3.5	88
129	New aspects of the adaptive synchronization and hyperchaos suppression of a financial model. <i>Chaos, Solitons and Fractals</i> , 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. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 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. <i>Frontiers in Physics</i> , 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. <i>JVC/Journal of Vibration and Control</i> , 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. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 53, 44-64.	3.3	87
134	Collocation methods for fractional differential equations involving non-singular kernel. <i>Chaos, Solitons and Fractals</i> , 2018, 116, 136-145.	5.1	87
135	Analysis of differential equations involving Caputoâ€“Fabrizio fractional operator and its applications to reactionâ€“diffusion equations. <i>Advances in Difference Equations</i> , 2019, 2019, .	3.5	87
136	A new Jacobi rationalâ€“Gauss collocation method for numerical solution of generalized pantograph equations. <i>Applied Numerical Mathematics</i> , 2014, 77, 43-54.	2.1	86
137	On a nonlinear dynamical system with both chaotic and nonchaotic behaviors: a new fractional analysis and control. <i>Advances in Difference Equations</i> , 2021, 2021, .	3.5	86
138	On electromagnetic field in fractional space. <i>Nonlinear Analysis: Real World Applications</i> , 2010, 11, 288-292.	1.7	84
139	A Jacobi operational matrix for solving a fuzzy linear fractional differential equation. <i>Advances in Difference Equations</i> , 2013, 2013, .	3.5	84
140	On the local fractional wave equation in fractal strings. <i>Mathematical Methods in the Applied Sciences</i> , 2019, 42, 1588-1595.	2.3	84
141	A new method of finding the fractional Eulerâ€“Lagrange and Hamilton equations within Caputo fractional derivatives. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010, 15, 1111-1115.	3.3	83
142	Suboptimal control of fractional-order dynamic systems with delay argument. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 2430-2446.	2.6	83
143	New aspects of poor nutrition in the life cycle within the fractional calculus. <i>Advances in Difference Equations</i> , 2018, 2018, .	3.5	83
144	On fractional Eulerâ€“Lagrange and Hamilton equations and the fractional generalization of total time derivative. <i>Nonlinear Dynamics</i> , 2008, 53, 67-74.	5.2	82

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145	New spectral techniques for systems of fractional differential equations using fractional-order generalized Laguerre orthogonal functions. <i>Fractional Calculus and Applied Analysis</i> , 2014, 17, 1137-1157.	2.2	82
146	Chaos in the fractional order nonlinear Bloch equation with delay. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015, 25, 41-49.	3.3	82
147	Modeling and simulation of the fractional space-time diffusion equation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 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. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	82
149	Stability of $\alpha$ -fractional non-autonomous systems. <i>Nonlinear Analysis: Real World Applications</i> , 2013, 14, 780-784.	1.7	81
150	Fractional Impulsive Differential Equations: Exact Solutions, Integral Equations and Short Memory Case. <i>Fractional Calculus and Applied Analysis</i> , 2019, 22, 180-192.	2.2	81
151	On exact solutions for time-fractional Korteweg-de Vries and Korteweg-de Vries-Burger's equations using homotopy analysis transform method. <i>Chinese Journal of Physics</i> , 2020, 63, 149-162.	3.9	81
152	On approximate solutions for two higher-order Caputo-Fabrizio fractional integro-differential equations. <i>Advances in Difference Equations</i> , 2017, 2017, .	3.5	79
153	LMI-based stabilization of a class of fractional-order chaotic systems. <i>Nonlinear Dynamics</i> , 2013, 72, 301-309.	5.2	78
154	New analytical wave structures for the $(3\alpha + 1)$ -dimensional Kadomtsev-Petviashvili and the generalized Boussinesq models and their applications. <i>Results in Physics</i> , 2019, 14, 102491.	4.1	78
155	Analytical and numerical solutions of mathematical biology models: The Newell-Whitehead-Segel and Allen-Cahn equations. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 2588-2600.	2.3	77
156	Stationary distribution and extinction of stochastic coronavirus (COVID-19) epidemic model. <i>Chaos, Solitons and Fractals</i> , 2020, 139, 110036.	5.1	77
157	On the solution set for a class of sequential fractional differential equations. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 385209.	2.1	76
158	Fractional Liouville type model of a pipeline within the fractional derivative without singular kernel. <i>Advances in Difference Equations</i> , 2016, 2016, .	3.5	76
159	A Chebyshev spectral method based on operational matrix for fractional differential equations involving non-singular Mittag-Leffler kernel. <i>Advances in Difference Equations</i> , 2018, 2018, .	3.5	76
160	Entropy Generation and Consequences of MHD in Darcy-Forchheimer Nanofluid Flow Bounded by Non-Linearly Stretching Surface. <i>Symmetry</i> , 2020, 12, 652.	2.2	76
161	A Spectral Legendre-Gauss-Lobatto Collocation Method for a Space-Fractional Advection Diffusion Equations with Variable Coefficients. <i>Reports on Mathematical Physics</i> , 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. <i>Applied Mathematics and Computation</i> , 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. <i>Journal of Advanced Research</i> , 2019, 17, 125-137.	9.5	75
164	Fractional Electromagnetic Equations Using Fractional Forms. <i>International Journal of Theoretical Physics</i> , 2009, 48, 3114-3123.	1.2	74
165	A New Formulation of the Fractional Optimal Control Problems Involving Mittag-Leffler Nonsingular Kernel. <i>Journal of Optimization Theory and Applications</i> , 2017, 175, 718-737.	1.5	74
166	Quasi-periodic, chaotic and travelling wave structures of modified Gardner equation. <i>Chaos, Solitons and Fractals</i> , 2021, 143, 110578.	5.1	74
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