

Dumitru Baleanu

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1,283
papers

34,412
citations

85
h-index

129
g-index

1,350
ext. papers

42,211
ext. citations

2.8
avg, IF

8.86
L-index

#	Paper	IF	Citations
1283	New fractional derivatives with nonlocal and non-singular kernel: Theory and application to heat transfer model. <i>Thermal Science</i> , 2016 , 20, 763-769	1.2	1700
1282	Fractional Calculus 2012 ,		724
1281	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	3.7	596
1280	Anomalous diffusion expressed through fractional order differential operators in the Bloch-Torrey equation. <i>Journal of Magnetic Resonance</i> , 2008 , 190, 255-70	3	310
1279	A new study on the mathematical modelling of human liver with Caputo-Fabrizio fractional derivative. <i>Chaos, Solitons and Fractals</i> , 2020 , 134, 109705	9.3	292
1278	Discrete fractional logistic map and its chaos. <i>Nonlinear Dynamics</i> , 2014 , 75, 283-287	5	274
1277	New Derivatives on the Fractal Subset of Real-Line. <i>Entropy</i> , 2016 , 18, 1	2.8	269
1276	New properties of conformable derivative. <i>Open Mathematics</i> , 2015 , 13,	0.8	223
1275	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	201
1274	On a new class of fractional operators. <i>Advances in Difference Equations</i> , 2017 , 2017,	3.6	196
1273	Stability analysis of Caputo fractional-order nonlinear systems revisited. <i>Nonlinear Dynamics</i> , 2012 , 67, 2433-2439	5	181
1272	Lagrangian Formulation of Classical Fields within Riemann-Liouville Fractional Derivatives. <i>Physica Scripta</i> , 2005 , 72, 119-121	2.6	174
1271	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	1.9	174
1270	On some new properties of fractional derivatives with Mittag-Leffler kernel. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018 , 59, 444-462	3.7	172
1269	Fractal heat conduction problem solved by local fractional variation iteration method. <i>Thermal Science</i> , 2013 , 17, 625-628	1.2	170
1268	Analysis of regularized long-wave equation associated with a new fractional operator with Mittag-Leffler type kernel. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 492, 155-167	3.3	166
1267	A new fractional exothermic reactions model having constant heat source in porous media with power, exponential and Mittag-Leffler laws. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 138, 1222-1227	4.9	158

1266	Fractional calculus: A survey of useful formulas. <i>European Physical Journal: Special Topics</i> , 2013 , 222, 1821-1846	1.53	153
1265	A new fractional model and optimal control of a tumor-immune surveillance with non-singular derivative operator. <i>Chaos</i> , 2019 , 29, 083127	3.3	152
1264	A spectral tau algorithm based on Jacobi operational matrix for numerical solution of time fractional diffusion-wave equations. <i>Journal of Computational Physics</i> , 2015 , 293, 142-156	4.1	146
1263	Controllability of fractional evolution nonlocal impulsive quasilinear delay integro-differential systems. <i>Computers and Mathematics With Applications</i> , 2011 , 62, 1442-1450	2.7	146
1262	Caputo-type modification of the Hadamard fractional derivatives. <i>Advances in Difference Equations</i> , 2012 , 2012, 142	3.6	145
1261	On the analysis of vibration equation involving a fractional derivative with Mittag-Leffler law. <i>Mathematical Methods in the Applied Sciences</i> , 2020 , 43, 443-457	2.3	145
1260	On Fractional Derivatives with Exponential Kernel and their Discrete Versions. <i>Reports on Mathematical Physics</i> , 2017 , 80, 11-27	0.8	144
1259	Hamiltonian formulation of systems with linear velocities within Riemann-Liouville fractional derivatives. <i>Journal of Mathematical Analysis and Applications</i> , 2005 , 304, 599-606	1.1	141
1258	Caputo-Fabrizio Derivative Applied to Groundwater Flow within Confined Aquifer. <i>Journal of Engineering Mechanics - ASCE</i> , 2017 , 143,	2.4	137
1257	The Hamilton formalism with fractional derivatives. <i>Journal of Mathematical Analysis and Applications</i> , 2007 , 327, 891-897	1.1	137
1256	EXACT TRAVELING-WAVE SOLUTION FOR LOCAL FRACTIONAL BOUSSINESQ EQUATION IN FRACTAL DOMAIN. <i>Fractals</i> , 2017 , 25, 1740006	3.2	134
1255	A new fractional analysis on the interaction of HIV with CD4+ T-cells. <i>Chaos, Solitons and Fractals</i> , 2018 , 113, 221-229	9.3	132
1254	Chaos synchronization of fractional chaotic maps based on the stability condition. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 460, 374-383	3.3	129
1253	A Central Difference Numerical Scheme for Fractional Optimal Control Problems. <i>JVC/Journal of Vibration and Control</i> , 2009 , 15, 583-597	2	128
1252	Chaos synchronization of the discrete fractional logistic map. <i>Signal Processing</i> , 2014 , 102, 96-99	4.4	125
1251	Two analytical methods for time-fractional nonlinear coupled Boussinesq-Burger equations arise in propagation of shallow water waves. <i>Nonlinear Dynamics</i> , 2016 , 85, 699-715	5	122
1250	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	122
1249	Chaos analysis and asymptotic stability of generalized Caputo fractional differential equations. <i>Chaos, Solitons and Fractals</i> , 2017 , 102, 99-105	9.3	121

1248	Fractional modeling of blood ethanol concentration system with real data application. <i>Chaos</i> , 2019 , 29, 013143	3.3	121
1247	Some existence results on nonlinear fractional differential equations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013 , 371, 20120144	3	121
1246	On the generalized fractional derivatives and their Caputo modification. <i>Journal of Nonlinear Science and Applications</i> , 2017 , 10, 2607-2619	1.9	121
1245	On exact traveling-wave solutions for local fractional Korteweg-de Vries equation. <i>Chaos</i> , 2016 , 26, 0843312	3.3	120
1244	New exact solutions of Burgers-type equations with conformable derivative. <i>Waves in Random and Complex Media</i> , 2017 , 27, 103-116	1.9	119
1243	A hybrid Caputo fractional modeling for thermostat with hybrid boundary value conditions. <i>Boundary Value Problems</i> , 2020 , 2020,	2.1	119
1242	On a Fractional Operator Combining Proportional and Classical Differintegrals. <i>Mathematics</i> , 2020 , 8, 360	2.3	117
1241	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	3.3	115
1240	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	3.3	114
1239	On the existence of solutions for some infinite coefficient-symmetric Caputo-Fabrizio fractional integro-differential equations. <i>Boundary Value Problems</i> , 2017 , 2017,	2.1	114
1238	Fractional hamilton formalism within caputo derivative. <i>European Physical Journal D</i> , 2006 , 56, 1087-1092		114
1237	Analysis of the model of HIV-1 infection of $CD4^{+}$ T-cell with a new approach of fractional derivative. <i>Advances in Difference Equations</i> , 2020 , 2020,	3.6	113
1236	A new adaptive synchronization and hyperchaos control of a biological snap oscillator. <i>Chaos, Solitons and Fractals</i> , 2020 , 138, 109919	9.3	112
1235	On high order fractional integro-differential equations including the Caputo-Fabrizio derivative. <i>Boundary Value Problems</i> , 2018 , 2018,	2.1	112
1234	On fractional integro-differential inclusions via the extended fractional Caputo-Fabrizio derivation. <i>Boundary Value Problems</i> , 2019 , 2019,	2.1	111
1233	Solving the fractional order Bloch equation. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2009 , 34A, 16-23	0.6	110
1232	Discrete fractional differences with nonsingular discrete Mittag-Leffler kernels. <i>Advances in Difference Equations</i> , 2016 , 2016,	3.6	109
1231	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	2.3	109

1230	An Efficient Numerical Method for Fractional SIR Epidemic Model of Infectious Disease by Using Bernstein Wavelets. <i>Mathematics</i> , 2020 , 8, 558	2.3	109
1229	An efficient numerical algorithm for the fractional Drinfeld-Sokolov-Wilson equation. <i>Applied Mathematics and Computation</i> , 2018 , 335, 12-24	2.7	108
1228	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	3.7	107
1227	New aspects of fractional Biswas-Milovic model with Mittag-Leffler law. <i>Mathematical Modelling of Natural Phenomena</i> , 2019 , 14, 303	3	104
1226	New variable-order fractional chaotic systems for fast image encryption. <i>Chaos</i> , 2019 , 29, 083103	3.3	104
1225	Variational iteration method for the Burgers' flow with fractional derivatives-New Lagrange multipliers. <i>Applied Mathematical Modelling</i> , 2013 , 37, 6183-6190	4.5	103
1224	On the nonlinear dynamical systems within the generalized fractional derivatives with Mittag-Leffler kernel. <i>Nonlinear Dynamics</i> , 2018 , 94, 397-414	5	103
1223	The fractional features of a harmonic oscillator with position-dependent mass. <i>Communications in Theoretical Physics</i> , 2020 , 72, 055002	2.4	102
1222	A new numerical algorithm for fractional Fitzhugh-Nagumo equation arising in transmission of nerve impulses. <i>Nonlinear Dynamics</i> , 2018 , 91, 307-317	5	101
1221	A survey on fuzzy fractional differential and optimal control nonlocal evolution equations. <i>Journal of Computational and Applied Mathematics</i> , 2018 , 339, 3-29	2.4	97
1220	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	3.1	97
1219	On Analytical Solutions of the Fractional Differential Equation with Uncertainty: Application to the Basset Problem. <i>Entropy</i> , 2015 , 17, 885-902	2.8	96
1218	On Fractional Operators and Their Classifications. <i>Mathematics</i> , 2019 , 7, 830	2.3	95
1217	Lyapunov functions for Riemann-Liouville-like fractional difference equations. <i>Applied Mathematics and Computation</i> , 2017 , 314, 228-236	2.7	95
1216	Fractional Optimal Control Problems with Several State and Control Variables. <i>JVC/Journal of Vibration and Control</i> , 2010 , 16, 1967-1976	2	95
1215	A new fractional SIRS-SI malaria disease model with application of vaccines, antimalarial drugs, and spraying. <i>Advances in Difference Equations</i> , 2019 , 2019,	3.6	94
1214	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,	3.6	93
1213	Generalized exponential rational function method for extended Zakharov-Kuznetsov equation with conformable derivative. <i>Modern Physics Letters A</i> , 2019 , 34, 1950155	1.3	92

1212	Local fractional similarity solution for the diffusion equation defined on Cantor sets. <i>Applied Mathematics Letters</i> , 2015 , 47, 54-60	3.5	91
1211	A new approach for solving a system of fractional partial differential equations. <i>Computers and Mathematics With Applications</i> , 2013 , 66, 838-843	2.7	90
1210	A new fractional HRSV model and its optimal control: A non-singular operator approach. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 547, 123860	3.3	90
1209	Stability analysis of Caputo-like discrete fractional systems. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017 , 48, 520-530	3.7	89
1208	A new fractional model for giving up smoking dynamics. <i>Advances in Difference Equations</i> , 2017 , 2017,	3.6	89
1207	On fractional calculus with general analytic kernels. <i>Applied Mathematics and Computation</i> , 2019 , 354, 248-265	2.7	89
1206	Analysis of time-fractional hunter-saxton equation: a model of neumatic liquid crystal. <i>Open Physics</i> , 2016 , 14, 145-149	1.3	89
1205	Fractional Calculus 2016 ,		89
1204	Modeling the dynamics of hepatitis E via the Caputo-Fabrizio derivative. <i>Mathematical Modelling of Natural Phenomena</i> , 2019 , 14, 311	3	88
1203	Discrete chaos in fractional sine and standard maps. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014 , 378, 484-487	2.3	87
1202	On nonlinear fractional Klein-Gordon equation. <i>Signal Processing</i> , 2011 , 91, 446-451	4.4	87
1201	Discrete chaos in fractional delayed logistic maps. <i>Nonlinear Dynamics</i> , 2015 , 80, 1697-1703	5	86
1200	A novel expansion iterative method for solving linear partial differential equations of fractional order. <i>Applied Mathematics and Computation</i> , 2015 , 257, 119-133	2.7	86
1199	A fractional differential equation model for the COVID-19 transmission by using the Caputo-Fabrizio derivative. <i>Advances in Difference Equations</i> , 2020 , 2020, 299	3.6	85
1198	On the analysis of fractional diabetes model with exponential law. <i>Advances in Difference Equations</i> , 2018 , 2018,	3.6	85
1197	A New Iterative Method for the Numerical Solution of High-Order Non-linear Fractional Boundary Value Problems. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	84
1196	Complete synchronization of commensurate fractional order chaotic systems using sliding mode control. <i>Mechatronics</i> , 2013 , 23, 873-879	3	84
1195	Fractional Bloch equation with delay. <i>Computers and Mathematics With Applications</i> , 2011 , 61, 1355-1365.	2.7	84

1194	Numerical solutions of the fractional Fisher's type equations with Atangana-Baleanu fractional derivative by using spectral collocation methods. <i>Chaos</i> , 2019 , 29, 023116	3.3	83
1193	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	3.7	83
1192	On the fractional optimal control problems with a general derivative operator. <i>Asian Journal of Control</i> , 2021 , 23, 1062-1071	1.7	83
1191	On exact solutions of a class of fractional Euler-Lagrange equations. <i>Nonlinear Dynamics</i> , 2008 , 52, 331-335	3.5	82
1190	New fractional derivatives with non-singular kernel applied to the Burgers equation. <i>Chaos</i> , 2018 , 28, 063109	3.3	81
1189	Series representations for fractional-calculus operators involving generalised Mittag-Leffler functions. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019 , 67, 517-527	3.7	81
1188	Two-strain epidemic model involving fractional derivative with Mittag-Leffler kernel. <i>Chaos</i> , 2018 , 28, 123121	3.3	81
1187	A new fractional derivative involving the normalized sinc function without singular kernel. <i>European Physical Journal: Special Topics</i> , 2017 , 226, 3567-3575	2.3	80
1186	On the analysis of chemical kinetics system pertaining to a fractional derivative with Mittag-Leffler type kernel. <i>Chaos</i> , 2017 , 27, 103113	3.3	79
1185	An existence result for a superlinear fractional differential equation. <i>Applied Mathematics Letters</i> , 2010 , 23, 1129-1132	3.5	79
1184	System of fractional differential algebraic equations with applications. <i>Chaos, Solitons and Fractals</i> , 2019 , 120, 203-212	9.3	78
1183	Analysis of a fractional model of the Ambartsumian equation. <i>European Physical Journal Plus</i> , 2018 , 133, 1	3.1	78
1182	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	76
1181	Collocation methods for fractional differential equations involving non-singular kernel. <i>Chaos, Solitons and Fractals</i> , 2018 , 116, 136-145	9.3	76
1180	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	3.1	75
1179	Double-wave solutions and Lie symmetry analysis to the $(2+1)$ -dimensional coupled Burgers equations. <i>Chinese Journal of Physics</i> , 2020 , 63, 122-129	3.5	75
1178	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	74
1177	On approximate solutions for two higher-order Caputo-Fabrizio fractional integro-differential equations. <i>Advances in Difference Equations</i> , 2017 , 2017, 1-12	3.6	74

1176	A new Jacobi rational Gauss collocation method for numerical solution of generalized pantograph equations. <i>Applied Numerical Mathematics</i> , 2014 , 77, 43-54	2.5	74
1175	A new approach for solving multi variable orders differential equations with Mittag-Leffler kernel. <i>Chaos, Solitons and Fractals</i> , 2020 , 130, 109405	9.3	74
1174	New aspects of the adaptive synchronization and hyperchaos suppression of a financial model. <i>Chaos, Solitons and Fractals</i> , 2017 , 99, 285-296	9.3	73
1173	Mittag-Leffler Stability Theorem for Fractional Nonlinear Systems with Delay. <i>Abstract and Applied Analysis</i> , 2010 , 2010, 1-7	0.7	73
1172	Lie symmetry analysis, exact solutions and conservation laws for the time fractional Caudrey-Dodd-Gibbon-Sawada-Kotera equation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018 , 59, 222-234	3.7	73
1171	Modeling and simulation of the fractional space-time diffusion equation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016 , 30, 115-127	3.7	72
1170	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	9.3	72
1169	A New Feature of the Fractional Euler-Lagrange Equations for a Coupled Oscillator Using a Nonsingular Operator Approach. <i>Frontiers in Physics</i> , 2019 , 7,	3.9	72
1168	A hybrid computational approach for Klein-Gordon equations on Cantor sets. <i>Nonlinear Dynamics</i> , 2017 , 87, 511-517	5	71
1167	Analyzing transient response of the parallel RCL circuit by using the Caputo-Fabrizio fractional derivative. <i>Advances in Difference Equations</i> , 2020 , 2020,	3.6	70
1166	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,	3.6	70
1165	Monotonicity results for fractional difference operators with discrete exponential kernels. <i>Advances in Difference Equations</i> , 2017 , 2017,	3.6	69
1164	A new analysis of fractional fish farm model associated with Mittag-Leffler-type kernel. <i>International Journal of Biomathematics</i> , 2020 , 13, 2050010	1.8	69
1163	Stability of q-fractional non-autonomous systems. <i>Nonlinear Analysis: Real World Applications</i> , 2013 , 14, 780-784	2.1	69
1162	Traveling wave solutions to nonlinear directional couplers by modified Kudryashov method. <i>Physica Scripta</i> , 2020 , 95, 075217	2.6	69
1161	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	68
1160	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	3.3	68
1159	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,	3.6	67

1158	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	2.7	67
1157	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	3.1	66
1156	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,	2.7	66
1155	Existence and uniqueness results for fractional differential equations with uncertainty. <i>Advances in Difference Equations</i> , 2012 , 2012,	3.6	66
1154	Analytical Solutions of the Electrical RLC Circuit via Liouville-Caputo Operators with Local and Non-Local Kernels. <i>Entropy</i> , 2016 , 18, 402	2.8	66
1153	A new method of finding the fractional Euler-Lagrange and Hamilton equations within Caputo fractional derivatives. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010 , 15, 1111-1115	3.7	65
1152	On electromagnetic field in fractional space. <i>Nonlinear Analysis: Real World Applications</i> , 2010 , 11, 288-292	2.1	65
1151	Jacobian matrix algorithm for Lyapunov exponents of the discrete fractional maps. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015 , 22, 95-100	3.7	64
1150	Numerical simulation of initial value problems with generalized Caputo-type fractional derivatives. <i>Applied Numerical Mathematics</i> , 2020 , 156, 94-105	2.5	64
1149	On fractional Euler-Lagrange and Hamilton equations and the fractional generalization of total time derivative. <i>Nonlinear Dynamics</i> , 2008 , 53, 67-74	5	64
1148	Fractional Liard type model of a pipeline within the fractional derivative without singular kernel. <i>Advances in Difference Equations</i> , 2016 , 2016,	3.6	64
1147	On the local fractional wave equation in fractal strings. <i>Mathematical Methods in the Applied Sciences</i> , 2019 , 42, 1588-1595	2.3	64
1146	LMI-based stabilization of a class of fractional-order chaotic systems. <i>Nonlinear Dynamics</i> , 2013 , 72, 301-309	3.09	63
1145	On exact solutions for time-fractional Korteweg-de Vries and Korteweg-de Vries-Burger equations using homotopy analysis transform method. <i>Chinese Journal of Physics</i> , 2020 , 63, 149-162	3.5	63
1144	Analysis of differential equations involving Caputo-Fabrizio fractional operator and its applications to reaction-diffusion equations. <i>Advances in Difference Equations</i> , 2019 , 2019,	3.6	62
1143	New Solitary Wave Solutions for Variants of (3+1)-Dimensional Wazwaz-Benjamin-Bona-Mahony Equations. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	62
1142	New aspects of poor nutrition in the life cycle within the fractional calculus. <i>Advances in Difference Equations</i> , 2018 , 2018,	3.6	62
1141	Suboptimal control of fractional-order dynamic systems with delay argument. <i>JVC/Journal of Vibration and Control</i> , 2018 , 24, 2430-2446	2	61

1140	Solving multi-dimensional fractional optimal control problems with inequality constraint by Bernstein polynomials operational matrices. <i>JVC/Journal of Vibration and Control</i> , 2013 , 19, 2523-2540	2	61
1139	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	3.7	60
1138	The extended fractional Caputo-Fabrizio derivative of order 0. <i>Advances in Difference Equations</i> , 2018 , 2018,	3.6	60
1137	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	2.7	59
1136	A Jacobi operational matrix for solving a fuzzy linear fractional differential equation. <i>Advances in Difference Equations</i> , 2013 , 2013,	3.6	59
1135	Chaos in the fractional order nonlinear Bloch equation with delay. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015 , 25, 41-49	3.7	59
1134	About fractional quantization and fractional variational principles. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009 , 14, 2520-2523	3.7	59
1133	Formulation of Hamiltonian Equations for Fractional Variational Problems. <i>European Physical Journal D</i> , 2005 , 55, 633-642		59
1132	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	2.5	59
1131	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	1.6	58
1130	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	58
1129	Fractional Electromagnetic Equations Using Fractional Forms. <i>International Journal of Theoretical Physics</i> , 2009 , 48, 3114-3123	1.1	58
1128	On the accurate discretization of a highly nonlinear boundary value problem. <i>Numerical Algorithms</i> , 2018 , 79, 679-695	2.1	58
1127	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,	3.6	58
1126	A new approach for the nonlinear fractional optimal control problems with external persistent disturbances. <i>Journal of the Franklin Institute</i> , 2018 , 355, 3938-3967	4	57
1125	On shifted Jacobi spectral approximations for solving fractional differential equations. <i>Applied Mathematics and Computation</i> , 2013 , 219, 8042-8056	2.7	56
1124	Generalized variational calculus in terms of multi-parameters fractional derivatives. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011 , 16, 4756-4767	3.7	56
1123	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	13	55

1122	Two fractional derivative inclusion problems via integral boundary condition. <i>Applied Mathematics and Computation</i> , 2015 , 257, 205-212	2.7	55
1121	New analytical wave structures for the (3 + 1)-dimensional Kadomtsev-Petviashvili and the generalized Boussinesq models and their applications. <i>Results in Physics</i> , 2019 , 14, 102491	3.7	55
1120	Some existence results for a nonlinear fractional differential equation on partially ordered Banach spaces. <i>Boundary Value Problems</i> , 2013 , 2013,	2.1	55
1119	Fractional-order Euler-Lagrange equations and formulation of Hamiltonian equations. <i>Nonlinear Dynamics</i> , 2009 , 58, 385-391	5	55
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1117	Effect of microtemperatures for micropolar thermoelastic bodies. <i>Structural Engineering and Mechanics</i> , 2017 , 61, 381-387		55
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