

# Jose Tenreiro Machado

## List of Publications by Year in descending order

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871  
papers

21,462  
citations

19657

61  
h-index

27406

106  
g-index

916  
all docs

916  
docs citations

916  
times ranked

8373  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent history of fractional calculus. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 1140-1153.	3.3	1,191
2	Advances in Fractional Calculus. , 2007, , .		1,008
3	The role of fractional calculus in modeling biological phenomena: A review. Communications in Nonlinear Science and Numerical Simulation, 2017, 51, 141-159.	3.3	448
4	What is a fractional derivative?. Journal of Computational Physics, 2015, 293, 4-13.	3.8	328
5	A Review of Definitions for Fractional Derivatives and Integral. Mathematical Problems in Engineering, 2014, 2014, 1-6.	1.1	307
6	A review of definitions of fractional derivatives and other operators. Journal of Computational Physics, 2019, 388, 195-208.	3.8	277
7	Tuning of PID Controllers Based on Bode's Ideal Transfer Function. Nonlinear Dynamics, 2004, 38, 305-321.	5.2	265
8	Towards the development of intelligent transportation systems. , 0, , .		226
9	Development of fractional order capacitors based on electrolyte processes. Nonlinear Dynamics, 2009, 56, 45-55.	5.2	224
10	Fractional Order Calculus: Basic Concepts and Engineering Applications. Mathematical Problems in Engineering, 2010, 2010, 1-19.	1.1	200
11	A new fractional derivative without singular kernel: Application to the modelling of the steady heat flow. Thermal Science, 2016, 20, 753-756.	1.1	197
12	Particle swarm optimization with fractional-order velocity. Nonlinear Dynamics, 2010, 61, 295-301.	5.2	196
13	A new fractional operator of variable order: Application in the description of anomalous diffusion. Physica A: Statistical Mechanics and Its Applications, 2017, 481, 276-283.	2.6	196
14	Fractional calculus: A survey of useful formulas. European Physical Journal: Special Topics, 2013, 222, 1827-1846.	2.6	193
15	On exact traveling-wave solutions for local fractional Korteweg-de Vries equation. Chaos, 2016, 26, 084312.	2.5	165
16	EXACT TRAVELING-WAVE SOLUTION FOR LOCAL FRACTIONAL BOUSSINESQ EQUATION IN FRACTAL DOMAIN. Fractals, 2017, 25, 1740006.	3.7	165
17	Some Applications of Fractional Calculus in Engineering. Mathematical Problems in Engineering, 2010, 2010, 1-34.	1.1	162
18	Fractional control of heat diffusion systems. Nonlinear Dynamics, 2008, 54, 263-282.	5.2	161

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19	A review of operational matrices and spectral techniques for fractional calculus. <i>Nonlinear Dynamics</i> , 2015, 81, 1023-1052.	5.2	154
20	Time domain design of fractional differintegrators using least-squares. <i>Signal Processing</i> , 2006, 86, 2567-2581.	3.7	148
21	On the formulation and numerical simulation of distributed-order fractional optimal control problems. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 52, 177-189.	3.3	142
22	Fractional signal processing and applications. <i>Signal Processing</i> , 2003, 83, 2285-2286.	3.7	139
23	Analysis of the Van der Pol Oscillator Containing Derivatives of Fractional Order. <i>JVC/Journal of Vibration and Control</i> , 2007, 13, 1291-1301.	2.6	139
24	Fractional Electrical Impedances in Botanical Elements. <i>JVC/Journal of Vibration and Control</i> , 2008, 14, 1389-1402.	2.6	136
25	On a fractal LC-electric circuit modeled by local fractional calculus. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 47, 200-206.	3.3	133
26	Traveling wave solutions to nonlinear directional couplers by modified Kudryashov method. <i>Physica Scripta</i> , 2020, 95, 075217.	2.5	130
27	Some pioneers of the applications of fractional calculus. <i>Fractional Calculus and Applied Analysis</i> , 2014, 17, 552-578.	2.2	128
28	On development of fractional calculus during the last fifty years. <i>Scientometrics</i> , 2014, 98, 577-582.	3.0	127
29	Optimal variable-order fractional PID controllers for dynamical systems. <i>Journal of Computational and Applied Mathematics</i> , 2018, 339, 40-48.	2.0	120
30	A review of power laws in real life phenomena. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012, 17, 3558-3578.	3.3	119
31	Introducing the fractional-order Darwinian PSO. <i>Signal, Image and Video Processing</i> , 2012, 6, 343-350.	2.7	118
32	Fractional Order Generalized Information. <i>Entropy</i> , 2014, 16, 2350-2361.	2.2	118
33	Modeling of the Lung Impedance Using a Fractional-Order Ladder Network With Constant Phase Elements. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2011, 5, 83-89.	4.0	113
34	The Chronicles of Fractional Calculus. <i>Fractional Calculus and Applied Analysis</i> , 2017, 20, 307-336.	2.2	112
35	Chaotic Phenomena and Fractional-Order Dynamics in the Trajectory Control of Redundant Manipulators. <i>Nonlinear Dynamics</i> , 2002, 29, 315-342.	5.2	108
36	A new numerical technique for solving the local fractional diffusion equation: Two-dimensional extended differential transform approach. <i>Applied Mathematics and Computation</i> , 2016, 274, 143-151.	2.2	106

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37	Fractional Order Control of a Hexapod Robot. <i>Nonlinear Dynamics</i> , 2004, 38, 417-433.	5.2	101
38	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
39	A new fractal nonlinear Burgers' equation arising in the acoustic signals propagation. <i>Mathematical Methods in the Applied Sciences</i> , 2019, 42, 7539-7544.	2.3	99
40	Fractional order inductive phenomena based on the skin effect. <i>Nonlinear Dynamics</i> , 2012, 68, 107-115.	5.2	97
41	Stability of Fractional Order Systems. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-14.	1.1	95
42	Fractional order electromagnetics. <i>Signal Processing</i> , 2006, 86, 2637-2644.	3.7	91
43	Stability and synchronization of fractional-order memristive neural networks with multiple delays. <i>Neural Networks</i> , 2017, 94, 76-85.	5.9	91
44	New complex waves in nonlinear optics based on the complex Ginzburg-Landau equation with Kerr law nonlinearity. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	88
45	Entropy analysis of integer and fractional dynamical systems. <i>Nonlinear Dynamics</i> , 2010, 62, 371-378.	5.2	87
46	Fractional model for malaria transmission under control strategies. <i>Computers and Mathematics With Applications</i> , 2013, 66, 908-916.	2.7	87
47	And I say to myself: "What a fractional world!" <i>Fractional Calculus and Applied Analysis</i> , 2011, 14, 635-654.	2.2	86
48	Pseudo Phase Plane and Fractional Calculus modeling of western global economic downturn. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015, 22, 396-406.	3.3	84
49	Fractional derivatives: Probability interpretation and frequency response of rational approximations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 3492-3497.	3.3	81
50	Fractional State Space Analysis of Economic Systems. <i>Entropy</i> , 2015, 17, 5402-5421.	2.2	77
51	Variable order fractional systems. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 71, 231-243.	3.3	75
52	The generalized Kudryashov method for nonlinear space-time fractional partial differential equations of Burgers type. <i>Nonlinear Dynamics</i> , 2019, 95, 361-368.	5.2	75
53	Science metrics on fractional calculus development since 1966. <i>Fractional Calculus and Applied Analysis</i> , 2013, 16, 479-500.	2.2	73
54	Delay-dependent criterion for asymptotic stability of a class of fractional-order memristive neural networks with time-varying delays. <i>Neural Networks</i> , 2019, 118, 289-299.	5.9	72

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55	A critical analysis of the Caputo's Fabrizio operator. Communications in Nonlinear Science and Numerical Simulation, 2018, 59, 608-611.	3.3	71
56	Fractional generalization of memristor and higher order elements. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 264-275.	3.3	70
57	Nonlinear dynamics for local fractional Burgers's equation arising in fractal flow. Nonlinear Dynamics, 2016, 84, 3-7.	5.2	70
58	The dynamical behavior of mixed-type soliton solutions described by (2+1)-dimensional Bogoyavlensky's Konopelchenko equation with variable coefficients. Journal of Electromagnetic Waves and Applications, 2018, 32, 1457-1464.	1.6	69
59	A stable three-level explicit spline finite difference scheme for a class of nonlinear time variable order fractional partial differential equations. Computers and Mathematics With Applications, 2017, 73, 1262-1269.	2.7	68
60	Extended Algorithms for Approximating Variable Order Fractional Derivatives with Applications. Journal of Scientific Computing, 2017, 71, 1351-1374.	2.3	67
61	New nonautonomous combined multi-wave solutions for ( $\vec{2+1}$ )-dimensional variable coefficients KdV equation. Nonlinear Dynamics, 2018, 93, 733-740.	5.2	67
62	A Historical Perspective of Legged Robots. JVC/Journal of Vibration and Control, 2007, 13, 1447-1486.	2.6	66
63	A literature review on the optimization of legged robots. JVC/Journal of Vibration and Control, 2012, 18, 1753-1767.	2.6	66
64	Controllability and Minimum Energy Control Problem of Fractional Discrete-Time Systems. , 2010, , 503-509.		64
65	Design of multi innovation fractional LMS algorithm for parameter estimation of input nonlinear control autoregressive systems. Applied Mathematical Modelling, 2021, 93, 412-425.	4.2	62
66	A multi-objective approach for the motion planning of redundant manipulators. Applied Soft Computing Journal, 2012, 12, 589-599.	7.2	61
67	On nonautonomous complex wave solutions described by the coupled Schrödinger's Boussinesq equation with variable-coefficients. Optical and Quantum Electronics, 2018, 50, 1.	3.3	61
68	Manipulator trajectory planning using a MOEA. Applied Soft Computing Journal, 2007, 7, 659-667.	7.2	60
69	A critical analysis of the conformable derivative. Nonlinear Dynamics, 2019, 95, 3063-3073.	5.2	60
70	Trajectory planning of redundant manipulators using genetic algorithms. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 2858-2869.	3.3	59
71	Fractional dynamics in DNA. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 2963-2969.	3.3	58
72	Which Derivative?. Fractal and Fractional, 2017, 1, 3.	3.3	58

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73	Effect of fractional orders in the velocity control of a servo system. Computers and Mathematics With Applications, 2010, 59, 1679-1686.	2.7	57
74	Complex order van der Pol oscillator. Nonlinear Dynamics, 2011, 65, 247-254.	5.2	57
75	Fractional Calculus: Quo Vadimus? (Where are we Going?). Fractional Calculus and Applied Analysis, 2015, 18, 495-526.	2.2	57
76	Energy analysis during biped walking. , 0, , .		56
77	A New Family of the Local Fractional PDEs. Fundamenta Informaticae, 2017, 151, 63-75.	0.4	56
78	Nonlinear dynamics of the patient's response to drug effect during general anesthesia. Communications in Nonlinear Science and Numerical Simulation, 2015, 20, 914-926.	3.3	54
79	A computational approach for the solution of a class of variable-order fractional integro-differential equations with weakly singular kernels. Fractional Calculus and Applied Analysis, 2017, 20, 1023-1042.	2.2	54
80	Numerical solution of variable-order fractional integro-partial differential equations via Sinc collocation method based on single and double exponential transformations. Communications in Nonlinear Science and Numerical Simulation, 2020, 82, 104985.	3.3	54
81	Property of Self-Similarity Between Baseband and Modulated Signals. Mobile Networks and Applications, 2020, 25, 1537-1547.	3.3	54
82	A Theoretical Study on Modeling the Respiratory Tract With Ladder Networks by Means of Intrinsic Fractal Geometry. IEEE Transactions on Biomedical Engineering, 2010, 57, 246-253.	4.2	53
83	Local Fractional Variational Iteration and Decomposition Methods for Wave Equation on Cantor Sets within Local Fractional Operators. Abstract and Applied Analysis, 2014, 2014, 1-6.	0.7	53
84	Analysis of temperature time-series: Embedding dynamics into the MDS method. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 851-871.	3.3	53
85	A novel color image encryption algorithm based on a fractional-order discrete chaotic neural network and DNA sequence operations. Frontiers of Information Technology and Electronic Engineering, 2020, 21, 866-879.	2.6	53
86	Dynamics of the Dow Jones and the NASDAQ stock indexes. Nonlinear Dynamics, 2010, 61, 691-705.	5.2	52
87	Fractional dynamics and MDS visualization of earthquake phenomena. Computers and Mathematics With Applications, 2013, 66, 647-658.	2.7	52
88	An Efficient Numerical Scheme for Solving Multi-Dimensional Fractional Optimal Control Problems With a Quadratic Performance Index. Asian Journal of Control, 2015, 17, 2389-2402.	3.0	52
89	A spectral framework for fractional variational problems based on fractional Jacobi functions. Applied Numerical Mathematics, 2018, 132, 51-72.	2.1	52
90	Rare and extreme events: the case of COVID-19 pandemic. Nonlinear Dynamics, 2020, 100, 2953-2972.	5.2	52

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91	Trends, directions for further research, and some open problems of fractional calculus. <i>Nonlinear Dynamics</i> , 2022, 107, 3245-3270.	5.2	52
92	Fractional Order PD±Joint Control of Legged Robots. <i>JVC/Journal of Vibration and Control</i> , 2006, 12, 1483-1501.	2.6	51
93	Fractional dynamics in the trajectory control of redundant manipulators. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2008, 13, 1836-1844.	3.3	50
94	Fractional dynamics and its applications. <i>Nonlinear Dynamics</i> , 2015, 80, 1661-1664.	5.2	50
95	An Extended Predictor–Corrector Algorithm for Variable-Order Fractional Delay Differential Equations. <i>Journal of Computational and Nonlinear Dynamics</i> , 2016, 11, .	1.2	50
96	Numerical approximation of the nonlinear time-fractional telegraph equation arising in neutron transport. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 99, 105755.	3.3	50
97	Dynamic modeling of a Stewart platform using the generalized momentum approach. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 3389-3401.	3.3	49
98	Employees’ skills, manufacturing flexibility and performance: a structural equation modelling applied to the automotive industry. <i>International Journal of Production Research</i> , 2015, 53, 4087-4101.	7.5	48
99	Performance of Fractional PID Algorithms Controlling Nonlinear Systems with Saturation and Backlash Phenomena. <i>JVC/Journal of Vibration and Control</i> , 2007, 13, 1407-1418.	2.6	47
100	Optimal tuning of fractional controllers using genetic algorithms. <i>Nonlinear Dynamics</i> , 2010, 62, 447-452.	5.2	47
101	Identifying economic periods and crisis with the multidimensional scaling. <i>Nonlinear Dynamics</i> , 2011, 63, 611-622.	5.2	46
102	Analysis of financial data series using fractional Fourier transform and multidimensional scaling. <i>Nonlinear Dynamics</i> , 2011, 65, 235-245.	5.2	46
103	Fractional order models of leaves. <i>JVC/Journal of Vibration and Control</i> , 2014, 20, 998-1008.	2.6	46
104	Relative fractional dynamics of stock markets. <i>Nonlinear Dynamics</i> , 2016, 86, 1613-1619.	5.2	46
105	Numerical Solution of the Two-Sided Space–Time Fractional Telegraph Equation Via Chebyshev Tau Approximation. <i>Journal of Optimization Theory and Applications</i> , 2017, 174, 321-341.	1.5	46
106	Fractional fixed-structure controller design using Augmented Lagrangian Particle Swarm Optimization with Fractional Order Velocity. <i>Applied Soft Computing Journal</i> , 2019, 77, 688-695.	7.2	46
107	Introduction to Fractional Differential Equations. <i>Advances in Dynamics, Patterns, Cognition</i> , 2019, , .	0.3	46
108	Chebyshev spectral methods for multi-order fractional neutral pantograph equations. <i>Nonlinear Dynamics</i> , 2020, 100, 3785-3797.	5.2	46

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109	Delay-dependent stability analysis of the QUAD vector field fractional order quaternion-valued memristive uncertain neutral type leaky integrator echo state neural networks. <i>Neural Networks</i> , 2019, 117, 307-327.	5.9	45
110	Generalized shifted Chebyshev polynomials for fractional optimal control problems. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 75, 50-61.	3.3	45
111	Multi-dimensional spectral tau methods for distributed-order fractional diffusion equations. <i>Computers and Mathematics With Applications</i> , 2020, 79, 476-488.	2.7	45
112	Numerical approach for modeling fractional heat conduction in porous medium with the generalized Cattaneo model. <i>Applied Mathematical Modelling</i> , 2021, 100, 107-124.	4.2	45
113	Mathematical aspects of the Heisenberg uncertainty principle within local fractional Fourier analysis. <i>Boundary Value Problems</i> , 2013, 2013, .	0.7	44
114	Fractional Derivatives: The Perspective of System Theory. <i>Mathematics</i> , 2019, 7, 150.	2.2	44
115	Experimental Signal Analysis of Robot Impacts in a Fractional Calculus Perspective. <i>Journal of Advanced Computational Intelligence and Intelligent Informatics</i> , 2007, 11, 1079-1085.	0.9	44
116	Analysis of stock market indices through multidimensional scaling. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011, 16, 4610-4618.	3.3	43
117	An extension of estimation of domain of attraction for fractional order linear system subject to saturation control. <i>Applied Mathematics Letters</i> , 2015, 47, 26-34.	2.7	43
118	An integro quadratic spline approach for a class of variable-order fractional initial value problems. <i>Chaos, Solitons and Fractals</i> , 2017, 102, 354-360.	5.1	43
119	Numerical approach for solving variable-order space-time fractional telegraph equation using transcendental Bernstein series. <i>Engineering With Computers</i> , 2020, 36, 867-878.	6.1	43
120	An innovative fractional order LMS algorithm for power signal parameter estimation. <i>Applied Mathematical Modelling</i> , 2020, 83, 703-718.	4.2	43
121	The Persistence of Memory. <i>Nonlinear Dynamics</i> , 2015, 79, 63-82.	5.2	42
122	Fractional-Order Devices. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017, , .	0.4	42
123	Shifted Jacobi Gauss-collocation with convergence analysis for fractional integro-differential equations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 72, 342-359.	3.3	42
124	Lyapunov method for the stability analysis of uncertain fractional-order systems under input saturation. <i>Applied Mathematical Modelling</i> , 2020, 81, 663-672.	4.2	42
125	The recovery of global stock markets indices after impacts due to pandemics. <i>Research in International Business and Finance</i> , 2021, 55, 101335.	5.9	42
126	A local stabilized approach for approximating the modified time-fractional diffusion problem arising in heat and mass transfer. <i>Journal of Advanced Research</i> , 2021, 32, 45-60.	9.5	42



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127	Multidimensional Scaling Visualization Using Parametric Similarity Indices. <i>Entropy</i> , 2015, 17, 1775-1794.	2.2	41
128	Analysis of Natural and Artificial Phenomena Using Signal Processing and Fractional Calculus. <i>Fractional Calculus and Applied Analysis</i> , 2015, 18, 459-478.	2.2	41
129	A fractional perspective to the bond graph modelling of world economies. <i>Nonlinear Dynamics</i> , 2015, 80, 1839-1852.	5.2	41
130	Efficient Legendre spectral tau algorithm for solving the two-sided space-time Caputo fractional advection-dispersion equation. <i>JVC/Journal of Vibration and Control</i> , 2016, 22, 2053-2068.	2.6	41
131	Dynamic stability analysis of fractional order leaky integrator echo state neural networks. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 47, 328-337.	3.3	41
132	Describing Function Analysis of Systems with Impacts and Backlash. <i>Nonlinear Dynamics</i> , 2002, 29, 235-250.	5.2	40
133	Optimal Controllers with Complex Order Derivatives. <i>Journal of Optimization Theory and Applications</i> , 2013, 156, 2-12.	1.5	40
134	Dynamical Stability and Predictability of Football Players: The Study of One Match. <i>Entropy</i> , 2014, 16, 645-674.	2.2	40
135	Design and implementation of grid multi-scroll fractional-order chaotic attractors. <i>Chaos</i> , 2016, 26, 084303.	2.5	40
136	Integer and fractional-order entropy analysis of earthquake data series. <i>Nonlinear Dynamics</i> , 2016, 84, 79-90.	5.2	40
137	Uniform stability of Fractional Order Leaky Integrator Echo State Neural Network with multiple time delays. <i>Information Sciences</i> , 2017, 418-419, 703-716.	6.9	40
138	Stability analysis of a class of nonlinear fractional-order systems under control input saturation. <i>International Journal of Robust and Nonlinear Control</i> , 2018, 28, 2887-2905.	3.7	40
139	Numerical approach for modeling fractal mobile/immobile transport model in porous and fractured media. <i>International Communications in Heat and Mass Transfer</i> , 2020, 111, 104443.	5.6	40
140	Systems of Navier-Stokes Equations on Cantor Sets. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-8.	1.1	39
141	Analysis and Visualization of Seismic Data Using Mutual Information. <i>Entropy</i> , 2013, 15, 3892-3909.	2.2	39
142	Numerical approach for a class of distributed order time fractional partial differential equations. <i>Applied Numerical Mathematics</i> , 2019, 136, 152-162.	2.1	39
143	Numerical study of the nonlinear anomalous reaction-subdiffusion process arising in the electroanalytical chemistry. <i>Journal of Computational Science</i> , 2021, 53, 101394.	2.9	39
144	Fractional-order impulse response of the respiratory system. <i>Computers and Mathematics With Applications</i> , 2011, 62, 845-854.	2.7	38

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145	Adaptive state-of-charge estimation of lithium-ion batteries based on square-root unscented Kalman filter. <i>Energy</i> , 2022, 252, 123972.	8.8	38
146	Modelling and simulation of artificial locomotion systems. <i>Robotica</i> , 2005, 23, 595-606.	1.9	37
147	A Survey of Technologies for Climbing Robots Adhesion to Surfaces. , 2008, , .		37
148	Calculation of fractional derivatives of noisy data with genetic algorithms. <i>Nonlinear Dynamics</i> , 2009, 57, 253-260.	5.2	37
149	A fuzzified systematic adjustment of the robotic Darwinian PSO. <i>Robotics and Autonomous Systems</i> , 2012, 60, 1625-1639.	5.1	37
150	Numerical solution of time-fractional fourth-order reaction-diffusion model arising in composite environments. <i>Applied Mathematical Modelling</i> , 2021, 89, 819-836.	4.2	37
151	Optimal control of variable-order fractional model for delay cancer treatments. <i>Applied Mathematical Modelling</i> , 2021, 89, 1557-1574.	4.2	37
152	Partial chaos suppression in a fractional order macroeconomic model. <i>Mathematics and Computers in Simulation</i> , 2016, 122, 55-68.	4.4	36
153	Application of fractional algorithms in the control of a robotic bird. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010, 15, 895-910.	3.3	35
154	Wavelet analysis of human DNA. <i>Genomics</i> , 2011, 98, 155-163.	2.9	35
155	A computationally efficient method for tempered fractional differential equations with application. <i>Computational and Applied Mathematics</i> , 2018, 37, 3657-3671.	1.3	35
156	Efficient fractional-order modified Harris hawks optimizer for proton exchange membrane fuel cell modeling. <i>Engineering Applications of Artificial Intelligence</i> , 2021, 100, 104193.	8.1	35
157	An evolutionary approach for the motion planning of redundant and hyper-redundant manipulators. <i>Nonlinear Dynamics</i> , 2010, 60, 115-129.	5.2	34
158	Milk Characterization Using Electrical Impedance Spectroscopy and Fractional Models. <i>Food Analytical Methods</i> , 2018, 11, 901-912.	2.6	34
159	Computational scheme for solving nonlinear fractional stochastic differential equations with delay. <i>Stochastic Analysis and Applications</i> , 2019, 37, 893-908.	1.5	34
160	Fractional-order hybrid control of robot manipulators. , 0, , .		33
161	Approximating fractional derivatives in the perspective of system control. <i>Nonlinear Dynamics</i> , 2009, 56, 401-407.	5.2	33
162	Relativistic time effects in financial dynamics. <i>Nonlinear Dynamics</i> , 2014, 75, 735-744.	5.2	33

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163	Analysis of diffusion process in fractured reservoirs using fractional derivative approach. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 3161-3170.	3.3	33
164	Numerical evaluation of fractional Tricomi-type model arising from physical problems of gas dynamics. Journal of Advanced Research, 2020, 25, 205-216.	9.5	33
165	An efficient local meshless approach for solving nonlinear time-fractional fourth-order diffusion model. Journal of King Saud University - Science, 2021, 33, 101243.	3.5	33
166	A review of structural health monitoring of bonded structures using electromechanical impedance spectroscopy. Structural Health Monitoring, 2022, 21, 228-249.	7.5	33
167	Fractional order dynamics in a GA planner. Signal Processing, 2003, 83, 2377-2386.	3.7	32
168	FRACTIONAL DYNAMICS IN FINANCIAL INDICES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250249.	1.7	32
169	Controllability results for impulsive mixed-type functional integro-differential evolution equations with nonlocal conditions. Fixed Point Theory and Applications, 2013, 2013, .	1.1	32
170	Rhapsody in fractional. Fractional Calculus and Applied Analysis, 2014, 17, 1188-1214.	2.2	32
171	An Efficient Operational Matrix Technique for Multidimensional Variable-Order Time Fractional Diffusion Equations. Journal of Computational and Nonlinear Dynamics, 2016, 11, .	1.2	32
172	Challenges in fractional dynamics and control theory. JVC/Journal of Vibration and Control, 2016, 22, 2151-2152.	2.6	32
173	Complex-order dynamics in hexapod locomotion. Signal Processing, 2006, 86, 2785-2793.	3.7	31
174	Describing function of two masses with backlash. Nonlinear Dynamics, 2009, 56, 409-413.	5.2	31
175	Complex dynamics of financial indices. Nonlinear Dynamics, 2013, 74, 287-296.	5.2	31
176	Chaos suppression in fractional systems using adaptive fractional state feedback control. Chaos, Solitons and Fractals, 2017, 103, 488-503.	5.1	31
177	Numerical investigation of fractional nonlinear sine-Gordon and Klein-Gordon models arising in relativistic quantum mechanics. Engineering Analysis With Boundary Elements, 2020, 120, 223-237.	3.7	31
178	The fractional order lead compensator. , 0, , .		30
179	Implementation of fractional-order electromagnetic potential through a genetic algorithm. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 1838-1843.	3.3	30
180	Control of a heat diffusion system through a fractional order nonlinear algorithm. Computers and Mathematics With Applications, 2010, 59, 1687-1694.	2.7	30

#	ARTICLE	IF	CITATIONS
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182	Application of Integer and Fractional Models in Electrochemical Systems. Mathematical Problems in Engineering, 2012, 2012, 1-17.	1.1	30
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