

Jose Tenreiro Machado

List of Publications by Year in descending order

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871
papers

21,462
citations

19608

61
h-index

27345

106
g-index

916
all docs

916
docs citations

916
times ranked

8373
citing authors

#	ARTICLE	IF	CITATIONS
1	Delay-dependent robust stability analysis of uncertain fractional-order neutral systems with distributed delays and nonlinear perturbations subject to input saturation. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2023, 24, 329-347.	0.4	3
2	Numerical solutions for variable-order fractional Grossâ€Pitaevskii equation with two spectral collocation approaches. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2023, 24, 421-435.	0.4	2
3	An accurate localized meshfree collocation technique for the telegraph equation in propagation of electrical signals. <i>Engineering With Computers</i> , 2023, 39, 2327-2344.	3.5	8
4	Optimal solution of a general class of nonlinear system of fractional partial differential equations using hybrid functions. <i>Engineering With Computers</i> , 2023, 39, 2401-2431.	3.5	2
5	A discrete polynomials approach for optimal control of fractional Volterra integro-differential equations. <i>JVC/Journal of Vibration and Control</i> , 2022, 28, 72-82.	1.5	5
6	A review of structural health monitoring of bonded structures using electromechanical impedance spectroscopy. <i>Structural Health Monitoring</i> , 2022, 21, 228-249.	4.3	33
7	Hypergeometric fractional derivatives formula of shifted Chebyshev polynomials: tau algorithm for a type of fractional delay differential equations. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2022, 23, 1253-1268.	0.4	24
8	Structural health monitoring of adhesive joints using Lamb waves: A review. <i>Structural Control and Health Monitoring</i> , 2022, 29, e2849.	1.9	25
9	Analysis of dual Bernstein operators in the solution of the fractional convectionâ€diffusion equation arising in underground water pollution. <i>Journal of Computational and Applied Mathematics</i> , 2022, 399, 113729.	1.1	7
10	Fractional-order shifted Legendre collocation method for solving non-linear variable-order fractional Fredholm integro-differential equations. <i>Computational and Applied Mathematics</i> , 2022, 41, 1.	1.0	10
11	Analytical stability analysis of the fractional-order particle swarm optimization algorithm. <i>Chaos, Solitons and Fractals</i> , 2022, 155, 111658.	2.5	16
12	Trends, directions for further research, and some open problems of fractional calculus. <i>Nonlinear Dynamics</i> , 2022, 107, 3245-3270.	2.7	52
13	State-of-Charge Estimation of Lithium-Ion Batteries Based on Fractional-Order Square-Root Unscented Kalman Filter. <i>Fractal and Fractional</i> , 2022, 6, 52.	1.6	10
14	Modified SIQR model for the COVIDâ€19 outbreak in several countries. <i>Mathematical Methods in the Applied Sciences</i> , 2022, , .	1.2	4
15	Command-filtered compound FAT learning control of fractional-order nonlinear systems with input delay and external disturbances. <i>Nonlinear Dynamics</i> , 2022, 108, 293-313.	2.7	9
16	In memory of Professor JosÃ© AntÃ³nio Tenreiro Machado (1957â€2021). <i>Nonlinear Dynamics</i> , 2022, 107, 1791-1800.	2.7	1
17	A computational view of electrophysiological properties under different atrial fibrosis conditions. <i>Applied Mathematical Modelling</i> , 2022, 105, 534-550.	2.2	1
18	Numerical treatment of microscale heat transfer processes arising in thin films of metals. <i>International Communications in Heat and Mass Transfer</i> , 2022, 132, 105892.	2.9	15

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19	How Many Fractional Derivatives Are There?. Mathematics, 2022, 10, 737.	1.1	22
20	Optimal solution of the fractional-order smoking model and its public health implications. Nonlinear Dynamics, 2022, 108, 2815-2831.	2.7	3
21	Multidimensional scaling and visualization of patterns in global large-scale accidents. Chaos, Solitons and Fractals, 2022, 157, 111951.	2.5	3
22	Multidimensional Analysis of Near-Earth Asteroids. SN Computer Science, 2022, 3, 1.	2.3	1
23	Fractional generalization of entropy improves the characterization of rotors in simulated atrial fibrillation. Applied Mathematics and Computation, 2022, 425, 127077.	1.4	4
24	Shifted Fractional-Order Jacobi Collocation Method for Solving Variable-Order Fractional Integro-Differential Equation with Weakly Singular Kernel. Fractal and Fractional, 2022, 6, 19.	1.6	7
25	Adaptive state-of-charge estimation of lithium-ion batteries based on square-root unscented Kalman filter. Energy, 2022, 252, 123972.	4.5	38
26	Feature extraction and visualization for damage detection on adhesive joints, utilizing lamb waves and supervised machine learning algorithms. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 8842-8855.	1.1	5
27	Guaranteed cost-based feedback control design for fractional-order neutral systems with input-delayed and nonlinear perturbations. ISA Transactions, 2022, 131, 95-107.	3.1	10
28	Revisiting the Formula for the Ramanujan Constant of a Series. Mathematics, 2022, 10, 1539.	1.1	2
29	The 21st Century Systems: An Updated Vision of Continuous-Time Fractional Models. IEEE Circuits and Systems Magazine, 2022, 22, 36-56.	2.6	15
30	A pseudo-spectral scheme for variable order fractional stochastic Volterra integro-differential equations. AIMS Mathematics, 2022, 7, 15453-15470.	0.7	0
31	Damage Classification Methodology Utilizing Lamb Waves and Artificial Neural Networks. Journal of Testing and Evaluation, 2022, 50, 2326-2344.	0.4	1
32	Numerical analysis of time-fractional Sobolev equation for fluid-driven processes in impermeable rocks. , 2022, 2022, .		4
33	Numerical Approximation of the Fractional Rayleigh-Stokes Problem Arising in a Generalised Maxwell Fluid. Fractal and Fractional, 2022, 6, 377.	1.6	5
34	Cluster analysis of the large natural satellites in the solar system. Applied Mathematical Modelling, 2021, 89, 1268-1278.	2.2	4
35	Complex-order particle swarm optimization. Communications in Nonlinear Science and Numerical Simulation, 2021, 92, 105448.	1.7	25
36	Numerical solution of time-fractional fourth-order reaction-diffusion model arising in composite environments. Applied Mathematical Modelling, 2021, 89, 819-836.	2.2	37

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37	An integro quadratic spline-based scheme for solving nonlinear fractional stochastic differential equations with constant time delay. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 92, 105475.	1.7	20
38	A new hybrid method for two dimensional nonlinear variable order fractional optimal control problems. <i>Asian Journal of Control</i> , 2021, 23, 2004-2018.	1.9	2
39	The recovery of global stock markets indices after impacts due to pandemics. <i>Research in International Business and Finance</i> , 2021, 55, 101335.	3.1	42
40	On multistep tumor growth models of fractional variable-order. <i>BioSystems</i> , 2021, 199, 104294.	0.9	22
41	Multidimensional scaling analysis of generalized mean discrete-time fractional order controllers. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 95, 105657.	1.7	10
42	Spontaneous activation under atrial fibrosis: A model using complex order derivatives. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 95, 105618.	1.7	5
43	Modeling and visualizing competitiveness in soccer leagues. <i>Applied Mathematical Modelling</i> , 2021, 92, 136-148.	2.2	2
44	Robust stability of uncertain fractional order systems of neutral type with distributed delays and control input saturation. <i>ISA Transactions</i> , 2021, 111, 144-155.	3.1	20
45	An efficient local meshless approach for solving nonlinear time-fractional fourth-order diffusion model. <i>Journal of King Saud University - Science</i> , 2021, 33, 101243.	1.6	33
46	Numerical evaluation of the fractional Kleinâ€“Kramers model arising in molecular dynamics. <i>Journal of Computational Physics</i> , 2021, 428, 109983.	1.9	23
47	Optimal control of variable-order fractional model for delay cancer treatments. <i>Applied Mathematical Modelling</i> , 2021, 89, 1557-1574.	2.2	37
48	Robust stability analysis of uncertain fractional order neutral-type delay nonlinear systems with actuator saturation. <i>Applied Mathematical Modelling</i> , 2021, 90, 1035-1048.	2.2	20
49	Design of fractional evolutionary processing for reactive power planning with FACTS devices. <i>Scientific Reports</i> , 2021, 11, 593.	1.6	26
50	On distinctive solitons type solutions for some important nonlinear SchrÃ¶dinger equations. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	1.5	19
51	Observerâ€“based control approach for fractionalâ€“order delay systems of neutral type with saturating actuator. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 8554-8564.	1.2	11
52	A Clustering Perspective of the Collatz Conjecture. <i>Mathematics</i> , 2021, 9, 314.	1.1	11
53	A Chebyshev Wavelet Collocation Method for Some Types of Differential Problems. <i>Symmetry</i> , 2021, 13, 536.	1.1	23
54	Numerical solution of nonlinear fractional optimal control problems using generalized Bernoulli polynomials. <i>Optimal Control Applications and Methods</i> , 2021, 42, 1045-1063.	1.3	6

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55	Relation Between New Rooted Trees and Derivatives of Differential Equations. Iranian Journal of Science and Technology, Transaction A: Science, 2021, 45, 1025-1036.	0.7	0
56	Efficient fractional-order modified Harris hawks optimizer for proton exchange membrane fuel cell modeling. Engineering Applications of Artificial Intelligence, 2021, 100, 104193.	4.3	35
57	Substantial, tempered, and shifted fractional derivatives: Three faces of a tetrahedron. Mathematical Methods in the Applied Sciences, 2021, 44, 9191-9209.	1.2	19
58	Dynamical Analysis of the Dow Jones Index Using Dimensionality Reduction and Visualization. Entropy, 2021, 23, 600.	1.1	3
59	LMI-based stability analysis of fractional order systems of neutral type with time varying delays under actuator saturation. Computational and Applied Mathematics, 2021, 40, 1.	1.0	12
60	Design of multi innovation fractional LMS algorithm for parameter estimation of input nonlinear control autoregressive systems. Applied Mathematical Modelling, 2021, 93, 412-425.	2.2	62
61	Adomian Decomposition and Fractional Power Series Solution of a Class of Nonlinear Fractional Differential Equations. Mathematics, 2021, 9, 1070.	1.1	22
62	Entropy analysis of human death uncertainty. Nonlinear Dynamics, 2021, 104, 3897-3911.	2.7	4
63	Closed-form Solution for The Finite-horizon Linear-quadratic Control Problem of Linear Fractional-order Systems. , 2021, , .		3
64	Consensus of Incommensurate-order Fractional Multiagent Systems with a Fixed-length Memory. , 2021, , .		2
65	An optimization technique for solving a class of nonlinear fractional optimal control problems: Application in cancer treatment. Applied Mathematical Modelling, 2021, 93, 868-884.	2.2	25
66	Uniform Manifold Approximation and Projection Analysis of Soccer Players. Entropy, 2021, 23, 793.	1.1	6
67	In memory of the honorary founding editors behind the FCAA success story. Fractional Calculus and Applied Analysis, 2021, 24, 641-666.	1.2	0
68	Assessing the Effect of Laboratory Activities on Core Curricular Units of an Engineering Master's Program: A Multivariate Analysis. Mathematical Problems in Engineering, 2021, 2021, 1-13.	0.6	3
69	Numerical study of the nonlinear anomalous reaction's subdiffusion process arising in the electroanalytical chemistry. Journal of Computational Science, 2021, 53, 101394.	1.5	39
70	The Bouncing Ball and the Grunwald-Letnikov Definition of Fractional Derivative. Fractional Calculus and Applied Analysis, 2021, 24, 1003-1014.	1.2	12
71	Optimal solution of the fractional order breast cancer competition model. Scientific Reports, 2021, 11, 15622.	1.6	11
72	Advances in the computational analysis of SARS-COV2 genome. Nonlinear Dynamics, 2021, 106, 1525-1555.	2.7	6

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73	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.	1.7	50
74	Stability analysis of uncertain fractional-order neutral-type delay systems with actuator saturation. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2021, 22, 1402-1412.	1.5	6
75	Convergence boundaries of complex-order particle swarm optimization algorithm with weak stagnation: dynamical analysis. <i>Nonlinear Dynamics</i> , 2021, 106, 725-743.	2.7	5
76	Fractional and fractal processes applied to cryptocurrencies price series. <i>Journal of Advanced Research</i> , 2021, 32, 85-98.	4.4	14
77	Double color image encryption based on fractional order discrete improved Henon map and Rubik's cube transform. <i>Signal Processing: Image Communication</i> , 2021, 97, 116363.	1.8	25
78	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.	4.4	42
79	Numerical simulation of a degenerate parabolic problem occurring in the spatial diffusion of biological population. <i>Chaos, Solitons and Fractals</i> , 2021, 151, 111220.	2.5	11
80	Particle swarm optimization algorithm using complex-order derivative concept: A comprehensive study. <i>Applied Soft Computing Journal</i> , 2021, 111, 107641.	4.1	8
81	Multidimensional scaling and visualization of patterns in distribution of nontrivial zeros of the zeta-function. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 102, 105924.	1.7	5
82	Dynamics and bifurcations of a discrete-time prey-predator model with Allee effect on the prey population. <i>Ecological Complexity</i> , 2021, 48, 100962.	1.4	19
83	Numerical approach for modeling fractional heat conduction in porous medium with the generalized Cattaneo model. <i>Applied Mathematical Modelling</i> , 2021, 100, 107-124.	2.2	45
84	Fractional LMS and NLMS Algorithms for Line Echo Cancellation. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 9385-9398.	1.7	13
85	Delay-Dependent and Order-Dependent Guaranteed Cost Control for Uncertain Fractional-Order Delayed Linear Systems. <i>Mathematics</i> , 2021, 9, 41.	1.1	7
86	Discretization of Fractional Operators: Analysis by Means of Advanced Computational Techniques. <i>Mathematics</i> , 2021, 9, 2429.	1.1	0
87	On the Calculation of the Moore-Penrose and Drazin Inverses: Application to Fractional Calculus. <i>Mathematics</i> , 2021, 9, 2501.	1.1	6
88	Fractional-Order Sensing and Control: Embedding the Nonlinear Dynamics of Robot Manipulators into the Multidimensional Scaling Method. <i>Sensors</i> , 2021, 21, 7736.	2.1	5
89	Overview in Summabilities: Summation Methods for Divergent Series, Ramanujan Summation and Fractional Finite Sums. <i>Mathematics</i> , 2021, 9, 2963.	1.1	1
90	Integral Inequalities for Generalized Harmonically Convex Functions in Fuzzy-Interval-Valued Settings. <i>Symmetry</i> , 2021, 13, 2352.	1.1	11

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91	Sufficient conditions for existence and uniqueness of fractional stochastic delay differential equations. <i>Stochastics</i> , 2020, 92, 379-396.	0.6	23
92	A computational approach for the non-smooth solution of non-linear weakly singular Volterra integral equation with proportional delay. <i>Numerical Algorithms</i> , 2020, 83, 987-1006.	1.1	25
93	Numerical approach for solving variable-order space-time fractional telegraph equation using transcendental Bernstein series. <i>Engineering With Computers</i> , 2020, 36, 867-878.	3.5	43
94	Numerical solution of variable-order fractional integro-partial differential equations via Sinc collocation method based on single and double exponential transformations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 82, 104985.	1.7	54
95	On the properties of some operators under the perspective of fractional system theory. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 82, 105022.	1.7	10
96	Electrochemical impedance spectroscopy characterization of beverages. <i>Food Chemistry</i> , 2020, 302, 125345.	4.2	25
97	Multi-dimensional spectral tau methods for distributed-order fractional diffusion equations. <i>Computers and Mathematics With Applications</i> , 2020, 79, 476-488.	1.4	45
98	Property of Self-Similarity Between Baseband and Modulated Signals. <i>Mobile Networks and Applications</i> , 2020, 25, 1537-1547.	2.2	54
99	Application of the Euler and Runge-Kutta Generalized Methods for FDE and Symbolic Packages in the Analysis of Some Fractional Attractors. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2020, 21, 159-170.	0.4	19
100	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.	2.9	40
101	A combined measure to differentiate EEG signals using fractal dimension and MF DFA-Hurst. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 84, 105170.	1.7	25
102	Numerical solution of the fractional Rayleigh-Stokes model arising in a heated generalized second-grade fluid. <i>Engineering With Computers</i> , 2020, 37, 1751.	3.5	28
103	Multidimensional scaling and visualization of patterns in prime numbers. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 83, 105128.	1.7	17
104	Measuring the Brazilian ethanol and gasoline market efficiency using DFA-Hurst and fractal dimension. <i>Energy Economics</i> , 2020, 85, 104614.	5.6	27
105	Time-fractional dependence of the shear force in some beam type problems with negative Young modulus. <i>Applied Mathematical Modelling</i> , 2020, 80, 668-682.	2.2	8
106	The ψ -Hilfer fractional calculus of variable order and its applications. <i>Computational and Applied Mathematics</i> , 2020, 39, 1.	1.0	19
107	Dynamics and optimal control of multibody systems using fractional generalized divide-and-conquer algorithm. <i>Nonlinear Dynamics</i> , 2020, 102, 1611-1626.	2.7	1
108	Stability analysis of fractional order neutral-type systems considering time varying delays, nonlinear perturbations, and input saturation. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 10332-10345.	1.2	12

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109	Generalized Newtonian fractional model for the vertical motion of a particle. Applied Mathematical Modelling, 2020, 88, 652-660.	2.2	9
110	Improved Decentralized Fractional PD Control of Structure Vibrations. Mathematics, 2020, 8, 326.	1.1	24
111	Output-feedback-guaranteed cost control of fractional-order uncertain linear delayed systems. Computational and Applied Mathematics, 2020, 39, 1.	1.0	15
112	On dual Bernstein polynomials and stochastic fractional integro-differential equations. Mathematical Methods in the Applied Sciences, 2020, 43, 9928-9947.	1.2	9
113	Analysis of a rectangular prism n-units RLC fractional-order circuit network. AEJ - Alexandria Engineering Journal, 2020, 59, 3091-3104.	3.4	8
114	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.	2.0	31
115	Solving nonlinear systems of fractional-order partial differential equations using an optimization technique based on generalized polynomials. Computational and Applied Mathematics, 2020, 39, 1.	1.0	4
116	Nonlinear dynamics of COVID-19 pandemic: modeling, control, and future perspectives. Nonlinear Dynamics, 2020, 101, 1525-1526.	2.7	15
117	Revisiting the 1D and 2D Laplace Transforms. Mathematics, 2020, 8, 1330.	1.1	18
118	Solitary Wave Solutions of the Generalized Rosenau-KdV-RLW Equation. Mathematics, 2020, 8, 1601.	1.1	28
119	Variable coefficient fractional-order PID controller and its application to a SEPIC device. IET Control Theory and Applications, 2020, 14, 900-908.	1.2	15
120	Computer Analysis of Human Belligerency. Mathematics, 2020, 8, 1201.	1.1	3
121	Understanding COVID-19 nonlinear multi-scale dynamic spreading in Italy. Nonlinear Dynamics, 2020, 101, 1583-1619.	2.7	23
122	Utilizing Macro Fiber Composite to Control Rotating Blade Vibrations. Symmetry, 2020, 12, 1984.	1.1	10
123	A Review of Fractional Order Entropies. Entropy, 2020, 22, 1374.	1.1	23
124	A Review of Sample and Hold Systems and Design of a New Fractional Algorithm. Applied Sciences (Switzerland), 2020, 10, 7360.	1.3	4
125	Fractal and Entropy Analysis of the Dow Jones Index Using Multidimensional Scaling. Entropy, 2020, 22, 1138.	1.1	5
126	Fractional-order modelling of epoxy resin. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190292.	1.6	14

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127	Rare and extreme events: the case of COVID-19 pandemic. <i>Nonlinear Dynamics</i> , 2020, 100, 2953-2972.	2.7	52
128	Commensurate and Non-Commensurate Fractional-Order Discrete Models of an Electric Individual-Wheel Drive on an Autonomous Platform. <i>Entropy</i> , 2020, 22, 300.	1.1	3
129	Fuzzy logic embedding of fractional order sliding mode and state feedback controllers for synchronization of uncertain fractional chaotic systems. <i>Computational and Applied Mathematics</i> , 2020, 39, 1.	1.0	13
130	Ball Comparison between Three Sixth Order Methods for Banach Space Valued Operators. <i>Mathematics</i> , 2020, 8, 667.	1.1	3
131	An Evolutionary Perspective of Virus Propagation. <i>Mathematics</i> , 2020, 8, 779.	1.1	5
132	Chebyshev spectral methods for multi-order fractional neutral pantograph equations. <i>Nonlinear Dynamics</i> , 2020, 100, 3785-3797.	2.7	46
133	Shifted fractional Jacobi collocation method for solving fractional functional differential equations of variable order. <i>Chaos, Solitons and Fractals</i> , 2020, 134, 109721.	2.5	25
134	Fractional Dynamics in Soccer Leagues. <i>Symmetry</i> , 2020, 12, 356.	1.1	3
135	Existence of Bounded Solutions to a Modified Version of the Bagley-Torvik Equation. <i>Mathematics</i> , 2020, 8, 289.	1.1	0
136	Symmetry in Complex Systems. <i>Symmetry</i> , 2020, 12, 982.	1.1	1
137	A novel color image encryption algorithm based on a fractional-order discrete chaotic neural network and DNA sequence operations. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2020, 21, 866-879.	1.5	53
138	Abundant structures of waves in plasma transitional layer sheath. <i>Chinese Journal of Physics</i> , 2020, 67, 147-154.	2.0	3
139	Numerical evaluation of fractional Tricomi-type model arising from physical problems of gas dynamics. <i>Journal of Advanced Research</i> , 2020, 25, 205-216.	4.4	33
140	Computational analysis of the SARS-CoV-2 and other viruses based on the Kolmogorov's complexity and Shannon's information theories. <i>Nonlinear Dynamics</i> , 2020, 101, 1731-1750.	2.7	17
141	Analysis and implementation of fractional-order chaotic system with standard components. <i>Journal of Advanced Research</i> , 2020, 25, 97-109.	4.4	20
142	New discrete-time fractional derivatives based on the bilinear transformation: Definitions and properties. <i>Journal of Advanced Research</i> , 2020, 25, 1-10.	4.4	16
143	Fractional Dynamics and Pseudo-Phase Space of Country Economic Processes. <i>Mathematics</i> , 2020, 8, 81.	1.1	10
144	Highly accurate technique for solving distributed-order time-fractional-sub-diffusion equations of fourth order. <i>Computational and Applied Mathematics</i> , 2020, 39, 1.	1.0	10

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145	Generalized shifted Chebyshev polynomials: Solving a general class of nonlinear variable order fractional PDE. Communications in Nonlinear Science and Numerical Simulation, 2020, 85, 105229.	1.7	22
146	Lyapunov method for the stability analysis of uncertain fractional-order systems under input saturation. Applied Mathematical Modelling, 2020, 81, 663-672.	2.2	42
147	Multidimensional scaling locus of memristor and fractional order elements. Journal of Advanced Research, 2020, 25, 147-157.	4.4	19
148	Re-Evaluating the Classical Falling Body Problem. Mathematics, 2020, 8, 553.	1.1	3
149	Generalized Bernoulli Polynomials: Solving Nonlinear 2D Fractional Optimal Control Problems. Journal of Scientific Computing, 2020, 83, 1.	1.1	10
150	An innovative fractional order LMS algorithm for power signal parameter estimation. Applied Mathematical Modelling, 2020, 83, 703-718.	2.2	43
151	An efficient numerical technique for variable order time fractional nonlinear Klein-Gordon equation. Applied Numerical Mathematics, 2020, 154, 260-272.	1.2	14
152	Traveling wave solutions to nonlinear directional couplers by modified Kudryashov method. Physica Scripta, 2020, 95, 075217.	1.2	130
153	Absolutely stable difference scheme for a general class of singular perturbation problems. Advances in Difference Equations, 2020, 2020, .	3.5	1
154	A Linear B-Spline Approximation for a Class of Nonlinear Time and Space Fractional Partial Differential Equations. Advances in Dynamics, Patterns, Cognition, 2020, , 67-85.	0.2	0
155	Fractional Fractals. Fractional Calculus and Applied Analysis, 2020, 23, 1329-1348.	1.2	2
156	Exact Travelling Wave Solutions for Local Fractional Partial Differential Equations in Mathematical Physics. Advances in Dynamics, Patterns, Cognition, 2019, , 175-191.	0.2	18
157	A fractional perspective to the modelling of Lisbon's public transportation network. Transportation, 2019, 46, 1893-1913.	2.1	6
158	On the fractional Cornu spirals. Communications in Nonlinear Science and Numerical Simulation, 2019, 67, 100-107.	1.7	4
159	Complexity Analysis of Escher's Art. Entropy, 2019, 21, 553.	1.1	4
160	Numerical investigation of the nonlinear modified anomalous diffusion process. Nonlinear Dynamics, 2019, 97, 2757-2775.	2.7	28
161	On the Complexity Analysis and Visualization of Musical Information. Entropy, 2019, 21, 669.	1.1	4
162	Delay-dependent criterion for asymptotic stability of a class of fractional-order memristive neural networks with time-varying delays. Neural Networks, 2019, 118, 289-299.	3.3	72

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163	An Entropy Formulation Based on the Generalized Liouville Fractional Derivative. <i>Entropy</i> , 2019, 21, 638.	1.1	14
164	An Algorithm for the Approximate Solution of the Fractional Riccati Differential Equation. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2019, 20, 661-674.	0.4	7
165	Analysis of the two-dimensional fractional projectile motion in view of the experimental data. <i>Nonlinear Dynamics</i> , 2019, 97, 1711-1720.	2.7	20
166	An effective numerical method for solving nonlinear variable-order fractional functional boundary value problems through optimization technique. <i>Nonlinear Dynamics</i> , 2019, 97, 2041-2054.	2.7	22
167	Fractional derivatives and negative probabilities. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 79, 104913.	1.7	6
168	Multidimensional scaling analysis of the solar system objects. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 79, 104923.	1.7	6
169	Information analysis of the human DNA. <i>Nonlinear Dynamics</i> , 2019, 98, 3169-3186.	2.7	2
170	Efficient Three-Step Class of Eighth-Order Multiple Root Solvers and Their Dynamics. <i>Symmetry</i> , 2019, 11, 837.	1.1	4
171	Ethanol Prices and Agricultural Commodities: An Investigation of Their Relationship. <i>Mathematics</i> , 2019, 7, 774.	1.1	6
172	On the Numerical Computation of the Mittag-Leffler Function. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2019, 20, 725-736.	0.4	11
173	A new fractal nonlinear Burgers' equation arising in the acoustic signals propagation. <i>Mathematical Methods in the Applied Sciences</i> , 2019, 42, 7539-7544.	1.2	99
174	Design of momentum fractional LMS for Hammerstein nonlinear system identification with application to electrically stimulated muscle model. <i>European Physical Journal Plus</i> , 2019, 134, 1.	1.2	26
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