J F GÃ³mez-Aguilar

List of Publications by Year
in descending order

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330	11,129	23567 58	60623 81
papers	citations	h-index	g-index

335	335	335	3436
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Decolonisation of fractional calculus rules: Breaking commutativity and associativity to capture more natural phenomena. European Physical Journal Plus, 2018, 133, 1.	2.6	315
2	Fractional derivatives with no-index law property: Application to chaos and statistics. Chaos, Solitons and Fractals, 2018, 114, 516-535.	5.1	296
3	Numerical approximation of Riemannâ€Liouville definition of fractional derivative: From Riemannâ€Liouville to Atanganaâ€Baleanu. Numerical Methods for Partial Differential Equations, 2018, 34, 1502-1523.	3.6	236
4	A chaos study of tumor and effector cells in fractional tumor-immune model for cancer treatment. Chaos, Solitons and Fractals, 2020, 141, 110321.	5.1	143
5	Existence and Hyers-Ulam stability for a nonlinear singular fractional differential equations with Mittag-Leffler kernel. Chaos, Solitons and Fractals, 2019, 127, 422-427.	5.1	138
6	Electrical circuits RC, LC, and RL described by Atanganaâ€“Baleanu fractional derivatives. International Journal of Circuit Theory and Applications, 2017, 45, 1514-1533.	2.0	127
7	Stability analysis and numerical solutions of fractional order HIV/AIDS model. Chaos, Solitons and Fractals, 2019, 122, 119-128.	5.1	126
8	Modeling of a Mass-Spring-Damper System by Fractional Derivatives with and without a Singular Kernel. Entropy, 2015, 17, 6289-6303.	2.2	116
9	New insight in fractional differentiation: power, exponential decay and Mittag-Leffler laws and applications. European Physical Journal Plus, 2017, 132, 1.	2.6	113
10	Numerical solutions of the fractional Fisherâ€™s type equations with Atangana-Baleanu fractional derivative by using spectral collocation methods. Chaos, 2019, 29, 023116.	2.5	113
11	A new derivative with normal distribution kernel: Theory, methods and applications. Physica A: Statistical Mechanics and Its Applications, 2017, 476, 1-14.	2.6	112
12	Analysis of reactionâ€“diffusion system via a new fractional derivative with non-singular kernel. Physica A: Statistical Mechanics and Its Applications, 2018, 509, 703-716.	2.6	109
13	The effect of market confidence on a financial system from the perspective of fractional calculus: Numerical investigation and circuit realization. Chaos, Solitons and Fractals, 2020, 140, 110223.	5.1	107
14	Analytical and numerical solutions of electrical circuits described by fractional derivatives. Applied Mathematical Modelling, 2016, 40, 9079-9094.	4.2	100
15	Analytic solution for oxygen diffusion from capillary to tissues involving external force effects: A fractional calculus approach. Physica A: Statistical Mechanics and Its Applications, 2019, 523, 48-65.	2.6	100
16	Analytical and numerical study of the DNA dynamics arising in oscillator-chain of Peyrard-Bishop model. Chaos, Solitons and Fractals, 2020, 139, 110089.	5.1	100
17	A fractional order HIVâ€TB coinfection model with nonsingular Mittagâ€Leffler Law. Mathematical Methods in the Applied Sciences, 2020, 43, 3786-3806.	2.3	99
18	Beta-derivative and sub-equation method applied to the optical solitons in medium with parabolic law nonlinearity and higher order dispersion. Optik, 2018, 155, 357-365.	2.9	94

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19	Modeling diffusive transport with a fractional derivative without singular kernel. Physica A: Statistical Mechanics and Its Applications, 2016, 447, 467-481.	2.6	93
20	Novel numerical method for solving variable-order fractional differential equations with power, exponential and Mittag-Leffler laws. Chaos, Solitons and Fractals, 2018, 114, 175-185.	5.1	93
21	Analytical Solutions of the Electrical RLC Circuit via Liouvilleâ€“Caputo Operators with Local and Non-Local Kernels. Entropy, 2016, 18, 402.	2.2	91
22	Investigating a nonlinear dynamical model of COVID-19 disease under fuzzy caputo, random and ABC fractional order derivative. Chaos, Solitons and Fractals, 2020, 140, 110232.	5.1	90
23	The Tikhonov regularization method for the inverse source problem of time fractional heat equation in the view of ABC-fractional technique. Physica Scripta, 2021, 96, 094006.	2.5	90
24	Biswasâ€“Arshed equation with the beta time derivative: Optical solitons and other solutions. Optik, 2020, 217, 164801.	2.9	89
25	Laplace homotopy analysis method for solving linear partial differential equations using a fractional derivative with and without kernel singular. Advances in Difference Equations, 2016, 2016, .	3.5	88
26	Spectral Entropy Analysis and Synchronization of a Multi-Stable Fractional-Order Chaotic System using a Novel Neural Network-Based Chattering-Free Sliding Mode Technique. Chaos, Solitons and Fractals, 2021, 144, 110576.	5.1	88
27	Modeling the dynamics of nutrientâ€“phytoplanktonâ€“zooplankton system with variable-order fractional derivatives. Chaos, Solitons and Fractals, 2018, 116, 114-120.	5.1	85
28	A new modified definition of Caputoâ€“Fabrizio fractional-order derivative and their applications to the Multi Step Homotopy Analysis Method (MHAM). Journal of Computational and Applied Mathematics, 2019, 346, 247-260.	2.0	85
29	Solving fractional differential equations of variable-order involving operators with Mittag-Leffler kernel using artificial neural networks. Chaos, Solitons and Fractals, 2017, 103, 382-403.	5.1	84
30	Modeling and simulation of the fractional space-time diffusion equation. Communications in Nonlinear Science and Numerical Simulation, 2016, 30, 115-127.	3.3	82
31	FMNEICS: fractional Meyer neuro-evolution-based intelligent computing solver for doubly singular multi-fractional order Laneâ€“Emden system. Computational and Applied Mathematics, 2020, 39, 1.	2.2	82
32	Analytical solutions of electrical circuits described by fractional conformable derivatives in Liouville-Caputo sense. AEU - International Journal of Electronics and Communications, 2018, 85, 108-117.	2.9	81
33	A comparison of heat and mass transfer on a Walterâ€™s-B fluid via Caputo-Fabrizio versus Atangana-Baleanu fractional derivatives using the Fox-H function. European Physical Journal Plus, 2019, 134, 1.	2.6	81
34	On exact solutions for time-fractional Korteweg-de Vries and Korteweg-de Vries-Burgerâ€™s equations using homotopy analysis transform method. Chinese Journal of Physics, 2020, 63, 149-162.	3.9	81
35	On the variable-order fractional memristor oscillator: Data security applications and synchronization using a type-2 fuzzy disturbance observer-based robust control. Chaos, Solitons and Fractals, 2021, 145, 110681.	5.1	81
36	Hyperchaotic behaviour obtained via a nonlocal operator with exponential decay and Mittag-Leffler laws. Chaos, Solitons and Fractals, 2017, 102, 285-294.	5.1	79

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37	Analytical and Numerical solutions of a nonlinear alcoholism model via variable-order fractional differential equations. Physica A: Statistical Mechanics and Its Applications, 2018, 494, 52-75.	2.6	79
38	A dynamical model of asymptomatic carrier zika virus with optimal control strategies. Nonlinear Analysis: Real World Applications, 2019, 50, 144-170.	1.7	79
39	Classical and fractional-order modeling of equivalent electrical circuits for supercapacitors and batteries, energy management strategies for hybrid systems and methods for the state of charge estimation: A state of the art review. Microelectronics Journal, 2019, 85, 109-128.	2.0	78
40	Homotopy perturbation transform method for nonlinear differential equations involving to fractional operator with exponential kernel. Advances in Difference Equations, 2017, 2017, .	3.5	77
41	A numerical solution for a variable-order reactionâ€“diffusion model by using fractional derivatives with non-local and non-singular kernel. Physica A: Statistical Mechanics and Its Applications, 2018, 491, 406-424.	2.6	77
42	Fractional Transmission Line with Losses. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2014, 69, 539-546.	1.5	76
43	Fractional LiÃ©nard type model of a pipeline within the fractional derivative without singular kernel. Advances in Difference Equations, 2016, 2016, .	3.5	76
44	Dynamical study of fractional order mutualism parasitism food web module. Chaos, Solitons and Fractals, 2020, 134, 109685.	5.1	76
45	First integral method for non-linear differential equations with conformable derivative. Mathematical Modelling of Natural Phenomena, 2018, 13, 14.	2.4	72
46	New exact optical soliton solutions for nonlinear SchrÃ¶dinger equation with second-order spatio-temporal dispersion involving M-derivative. Modern Physics Letters B, 2019, 33, 1950235.	1.9	72
47	Spaceâ€“time fractional diffusion equation using a derivative with nonsingular and regular kernel. Physica A: Statistical Mechanics and Its Applications, 2017, 465, 562-572.	2.6	71
48	Chaos in a Cancer Model via Fractional Derivatives with Exponential Decay and Mittag-Leffler Law. Entropy, 2017, 19, 681.	2.2	70
49	Neuro-swarm intelligent computing paradigm for nonlinear HIV infection model with CD4+ T-cells. Mathematics and Computers in Simulation, 2021, 188, 241-253.	4.4	69
50	Soliton solutions of the Sasaâ€“Satsuma equation in the monomode optical fibers including the beta-derivatives. Optik, 2020, 224, 165425.	2.9	68
51	Optical soliton solutions for the nonlinear Radhakrishnanâ€“Kunduâ€“Lakshmanan equation. Modern Physics Letters B, 2019, 33, 1950402.	1.9	67
52	Mathematical formulation of hepatitis B virus with optimal control analysis. Optimal Control Applications and Methods, 2019, 40, 529-544.	2.1	67
53	Stability analysis for fractional order advectionâ€“reaction diffusion system. Physica A: Statistical Mechanics and Its Applications, 2019, 521, 737-751.	2.6	66
54	On the coâ€infection of dengue fever and Zika virus. Optimal Control Applications and Methods, 2019, 40, 394-421.	2.1	66

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55	Atangana-Baleanu fractional derivative applied to electromagnetic waves in dielectric media. Journal of Electromagnetic Waves and Applications, 2016, 30, 1937-1952.	1.6	65
56	Irvingâ€“Mullineux oscillator via fractional derivatives with Mittag-Leffler kernel. Chaos, Solitons and Fractals, 2017, 95, 179-186.	5.1	65
57	Stability and numerical simulation of a fractional order plant-nectar-pollinator model. AEJ - Alexandria Engineering Journal, 2020, 59, 49-59.	6.4	61
58	Triple pendulum model involving fractional derivatives with different kernels. Chaos, Solitons and Fractals, 2016, 91, 248-261.	5.1	60
59	Fractional sub-equation method for Hirotaâ€“Satsuma-coupled KdV equation and coupled mKdV equation using the Atanganaâ€™s conformable derivative. Waves in Random and Complex Media, 2019, 29, 678-693.	2.7	59
60	Behavior characteristics of a cap-resistor, memcapacitor, and a memristor from the response obtained of RC and RL electrical circuits described by fractional differential equations. Turkish Journal of Electrical Engineering and Computer Sciences, 2016, 24, 1421-1433.	1.4	55
61	Fundamental solutions to electrical circuits of non-integer order via fractional derivatives with and without singular kernels. European Physical Journal Plus, 2018, 133, 1.	2.6	55
62	New numerical approximation for solving fractional delay differential equations of variable order using artificial neural networks. European Physical Journal Plus, 2018, 133, 1.	2.6	54
63	Fractional order neural networks for system identification. Chaos, Solitons and Fractals, 2020, 130, 109444.	5.1	54
64	Optimal Control of Time-Delay Fractional Equations via a Joint Application of Radial Basis Functions and Collocation Method. Entropy, 2020, 22, 1213.	2.2	54
65	ANALYSIS OF FRACTALâ€“FRACTIONAL MALARIA TRANSMISSION MODEL. Fractals, 2020, 28, 2040041.	3.7	54
66	A survey on modeling, biofuels, control and supervision systems applied in internal combustion engines. Renewable and Sustainable Energy Reviews, 2017, 73, 1070-1085.	16.4	53
67	New singular soliton solutions to the longitudinal wave equation in a magneto-electro-elastic circular rod with M-derivative. Modern Physics Letters B, 2019, 33, 1950251.	1.9	53
68	Thermal effects of magnetohydrodynamic micropolar fluid embedded in porous medium with Fourier sine transform technique. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	53
69	Analysis of two avian influenza epidemic models involving fractal-fractional derivatives with power and Mittag-Leffler memories. Chaos, 2019, 29, 123113.	2.5	51
70	The generalized exponential rational function method for Radhakrishnan-Kundu-Lakshmanan equation with I²-conformable time derivative. Revista Mexicana De FÃsica, 2019, 65, 503-518.	0.4	51
71	Chaos in a calcium oscillation model via Atangana-Baleanu operator with strong memory. European Physical Journal Plus, 2019, 134, 1.	2.6	50
72	Modelling the effects of heavy alcohol consumption on the transmission dynamics of gonorrhea with optimal control. Mathematical Biosciences, 2019, 309, 1-11.	1.9	50

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73	On the solutions of fractional order of evolution equations. European Physical Journal Plus, 2017, 132, 1.	2.6	49
74	Batemanâ€“Feshbach Tikochinsky and Caldirolaâ€“Kanai Oscillators with New Fractional Differentiation. Entropy, 2017, 19, 55.	2.2	49
75	Asymptomatic carriers in transmission dynamics of dengue with control interventions. Optimal Control Applications and Methods, 2020, 41, 430-447.	2.1	49
76	A fractional mathematical model of breast cancer competition model. Chaos, Solitons and Fractals, 2019, 127, 38-54.	5.1	48
77	On the trajectory tracking control for an SCARA robot manipulator in a fractional model driven by induction motors with PSO tuning. Multibody System Dynamics, 2018, 43, 257-277.	2.7	47
78	Chaos and multiple attractors in a fractalâ€“fractional Shinrikiâ€™s oscillator model. Physica A: Statistical Mechanics and Its Applications, 2020, 539, 122918.	2.6	46
79	Artificial neural networks: a practical review of applications involving fractional calculus. European Physical Journal: Special Topics, 2022, 231, 2059-2095.	2.6	46
80	Synchronization of chaotic systems involving fractional operators of Liouvilleâ€“Caputo type with variable-order. Physica A: Statistical Mechanics and Its Applications, 2017, 487, 1-21.	2.6	45
81	Fractional conformable derivatives of Liouvilleâ€“Caputo type with low-fractionality. Physica A: Statistical Mechanics and Its Applications, 2018, 503, 424-438.	2.6	45
82	On the solutions of fractional-time wave equation with memory effect involving operators with regular kernel. Chaos, Solitons and Fractals, 2018, 115, 283-299.	5.1	45
83	Optical solitons solution of resonance nonlinear SchrÃ¶dinger type equation with Atangana's-conformable derivative using sub-equation method. Waves in Random and Complex Media, 2021, 31, 573-596.	2.7	45
84	Hybrid PEMFC-supercapacitor system: Modeling and energy management in energetic macroscopic representation. Applied Energy, 2017, 205, 1478-1494.	10.1	44
85	A novel fractional mathematical model of COVID-19 epidemic considering quarantine and latent time. Results in Physics, 2021, 26, 104286.	4.1	44
86	Series Solution for the Time-Fractional Coupled mKdV Equation Using the Homotopy Analysis Method. Mathematical Problems in Engineering, 2016, 2016, 1-8.	1.1	43
87	FPGA implementation and control of chaotic systems involving the variable-order fractional operator with Mittagâ€“Leffler law. Chaos, Solitons and Fractals, 2018, 115, 177-189.	5.1	43
88	Application of the Caputoâ€Fabrizio and Atanganaâ€Baleanu fractional derivatives to mathematical model of cancer chemotherapy effect. Mathematical Methods in the Applied Sciences, 2019, 42, 1167-1193.	2.3	43
89	On the dynamics of fractional maps with power-law, exponential decay and Mittagâ€“Leffler memory. Chaos, Solitons and Fractals, 2019, 127, 364-388.	5.1	42
90	New approximate analytical solutions for the nonlinear fractional SchrÃ¶dinger equation with secondâ€order spatioâ€temporal dispersion via double Laplace transform method. Mathematical Methods in the Applied Sciences, 2021, 44, 11138-11156.	2.3	42

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91	A mathematical analysis of a circular pipe in rate type fluid via Hankel transform. European Physical Journal Plus, 2018, 133, 1.	2.6	41
92	Mathematical modeling of coronavirus disease COVID-19 dynamics using CF and ABC non-singular fractional derivatives. Chaos, Solitons and Fractals, 2021, 145, 110757.	5.1	41
93	Chaotic Attractors with Fractional Conformable Derivatives in the Liouvilleâ€“Caputo Sense and Its Dynamical Behaviors. Entropy, 2018, 20, 384.	2.2	40
94	Dynamics of rational solutions in a new generalized Kadomtsevâ€“Petviashvili equation. Modern Physics Letters B, 2019, 33, 1950437.	1.9	40
95	M-derivative applied to the soliton solutions for the Lakshmananâ€“Porsezianâ€“Daniel equation with dual-dispersion for optical fibers. Optical and Quantum Electronics, 2019, 51, 1.	3.3	40
96	Optimal control problems with Atanganaâ€Baleanu fractional derivative. Optimal Control Applications and Methods, 2021, 42, 96-109.	2.1	39
97	Modelling, analysis and simulations of some chaotic systems using derivative with Mittagâ€“Leffler kernel. Chaos, Solitons and Fractals, 2019, 125, 54-63.	5.1	37
98	RLC electrical circuit of non-integer order. Open Physics, 2013, 11, .	1.7	36
99	SchrÃ¶dinger equation involving fractional operators with non-singular kernel. Journal of Electromagnetic Waves and Applications, 2017, 31, 752-761.	1.6	36
100	Functional application of Fourier sine transform in radiating gas flow with non-singular and non-local kernel. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	36
101	EXISTENCE RESULTS AND STABILITY CRITERIA FOR ABC-FUZZY-VOLTERRA INTEGRO-DIFFERENTIAL EQUATION. Fractals, 2020, 28, 2040048.	3.7	36
102	Analytical solutions of electrical circuits considering certain generalized fractional derivatives. European Physical Journal Plus, 2019, 134, 1.	2.6	35
103	A fractional numerical study on a chronic hepatitis C virus infection model with immune response. Chaos, Solitons and Fractals, 2020, 139, 110062.	5.1	35
104	Robust control for fractional variable-order chaotic systems with non-singular kernel. European Physical Journal Plus, 2018, 133, 1.	2.6	34
105	An efficient technique for solving the space-time fractional reaction-diffusion equation in porous media. Chinese Journal of Physics, 2020, 68, 483-492.	3.9	34
106	Fractional order controllers increase the robustness of closed-loop deep brain stimulation systems. Chaos, Solitons and Fractals, 2020, 140, 110149.	5.1	34
107	A fuzzy fractional model of coronavirus (COVID-19) and its study with Legendre spectral method. Results in Physics, 2021, 21, 103773.	4.1	34
108	Exact solutions of conformable fractional differential equations. Results in Physics, 2021, 22, 103916.	4.1	34

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109	Mathematical modeling of COVID-19 pandemic in India using Caputo-Fabrizio fractional derivative. Computers in Biology and Medicine, 2022, 145, 105518.	7.0	34
110	A new fractional-order compartmental disease model. AEJ - Alexandria Engineering Journal, 2020, 59, 3187-3196.	6.4	33
111	Antiretroviral therapy of HIV infection using a novel optimal type-2 fuzzy control strategy. AEJ - Alexandria Engineering Journal, 2021, 60, 1545-1555.	6.4	33
112	Energy management control strategy to improve the FC/SC dynamic behavior on hybrid electric vehicles: A frequency based distribution. Renewable Energy, 2017, 105, 407-418.	8.9	32
113	Stability analysis and optimal control of a fractional human African trypanosomiasis model. Chaos, Solitons and Fractals, 2018, 117, 150-160.	5.1	32
114	Analytical solutions of the Keller-Segel chemotaxis model involving fractional operators without singular kernel. European Physical Journal Plus, 2018, 133, 1.	2.6	32
115	Time-fractional variable-order telegraph equation involving operators with Mittag-Leffler kernel. Journal of Electromagnetic Waves and Applications, 2019, 33, 165-177.	1.6	32
116	Heat transfer in magnetohydrodynamic free convection flow of generalized ferrofluid with magnetite nanoparticles. Journal of Thermal Analysis and Calorimetry, 2021, 143, 3633-3642.	3.6	32
117	Some new mathematical models of the fractional-order system of human immune against IAV infection. Mathematical Biosciences and Engineering, 2020, 17, 4942-4969.	1.9	32
118	Control of the Air Supply Subsystem in a PEMFC with Balance of Plant Simulation. Sustainability, 2017, 9, 73.	3.2	31
119	Role of modern fractional derivatives in an armature-controlled DC servomotor. European Physical Journal Plus, 2019, 134, 1.	2.6	31
120	Master-Slave Synchronization of Robot Manipulators Driven by Induction Motors. IEEE Latin America Transactions, 2016, 14, 3986-3991.	1.6	30
121	Fractional operator without singular kernel: Applications to linear electrical circuits. International Journal of Circuit Theory and Applications, 2018, 46, 2394-2419.	2.0	30
122	Blood vessel detection based on fractional Hessian matrix with non-singular Mittagâ€“Leffler Gaussian kernel. Biomedical Signal Processing and Control, 2019, 54, 101584.	5.7	30
123	A variety of new optical soliton solutions related to the nonlinear SchrÃ¶dinger equation with time-dependent coefficients. Optik, 2020, 222, 165389.	2.9	30
124	Solutions of a disease model with fractional white noise. Chaos, Solitons and Fractals, 2020, 137, 109840.	5.1	30
125	Fractional Hunter-Saxton equation involving partial operators with bi-order in Riemann-Liouville and Liouville-Caputo sense. European Physical Journal Plus, 2017, 132, 1.	2.6	29
126	Generalized optical soliton solutions to the (3+1)-dimensional resonant nonlinear SchrÃ¶dinger equation with Kerr and parabolic law nonlinearities. Optical and Quantum Electronics, 2019, 51, 1.	3.3	29

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127	Novel analytical solutions of the fractional Drude model. Optik, 2018, 168, 728-740.	2.9	28
128	Online ANN-based fault diagnosis implementation using an FPGA: Application in the EFI system of a vehicle. ISA Transactions, 2020, 100, 358-372.	5.7	28
129	Fractional Modeling of Fin on non-Fourier Heat Conduction via Modern Fractional Differential Operators. Arabian Journal for Science and Engineering, 2021, 46, 2901-2910.	3.0	28
130	Local M-derivative of order $$alpha$$ Î± and the modified expansion function method applied to the longitudinal wave equation in a magneto electro-elastic circular rod. Optical and Quantum Electronics, 2018, 50, 1.	3.3	27
131	A New Fractional-Order Mask for Image Edge Detection Based on Caputoâ€“Fabrizio Fractional-Order Derivative Without Singular Kernel. Circuits, Systems, and Signal Processing, 2020, 39, 1419-1448.	2.0	27
132	Experimental implementation of a control scheme to feed a hydrogen-enriched E10 blend to an internal combustion engine. International Journal of Hydrogen Energy, 2017, 42, 25026-25036.	7.1	26
133	Fractional Derivatives with the Power-Law and the Mittagâ€“Leffler Kernel Applied to the Nonlinear Baggsâ€“Freedman Model. Fractal and Fractional, 2018, 2, 10.	3.3	26
134	A Fractional Quadratic autocatalysis associated with chemical clock reactions involving linear inhibition. Chaos, Solitons and Fractals, 2020, 132, 109557.	5.1	26
135	Integrated neuroâ€evolution heuristic with sequential quadratic programming for secondâ€order prediction differential models. Numerical Methods for Partial Differential Equations, 2024, 40, .	3.6	26
136	Investigation of a system of nonlinear fractional order hybrid differential equations under usual boundary conditions for existence of solution. Mathematical Methods in the Applied Sciences, 2021, 44, 1628-1638.	2.3	26
137	TRACKING CONTROL AND STABILIZATION OF A FRACTIONAL FINANCIAL RISK SYSTEM USING NOVEL ACTIVE FINITE-TIME FAULT-TOLERANT CONTROLS. Fractals, 2021, 29, 2150155.	3.7	26
138	Experimental evaluation of viscous damping coefficient in the fractional underdamped oscillator. Advances in Mechanical Engineering, 2016, 8, 168781401664306.	1.6	25
139	On a more general fractional integration by parts formulae and applications. Physica A: Statistical Mechanics and Its Applications, 2019, 536, 122494.	2.6	25
140	M-derivative applied to the dispersive optical solitons for the SchrÃ¶dinger-Hirota equation. European Physical Journal Plus, 2019, 134, 1.	2.6	25
141	Multiple attractors and periodicity on the Vallis model for El NiÃ±o/La NiÃ±a-Southern oscillation model. Journal of Atmospheric and Solar-Terrestrial Physics, 2020, 197, 105172.	1.6	25
142	New chaotic attractors: Application of fractalâ€fractional differentiation and integration. Mathematical Methods in the Applied Sciences, 2021, 44, 3036-3065.	2.3	25
143	Optical solitons in birefringent fibers with quadratic-cubic nonlinearity using three integration architectures. AIP Advances, 2021, 11, .	1.3	25
144	Enhancement of the performance of nonlinear vibration energy harvesters by exploiting secondary resonances in multi-frequency excitations. European Physical Journal Plus, 2021, 136, 1.	2.6	25

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145	Bifurcation analysis of a discrete-time compartmental model for hypertensive or diabetic patients exposed to COVID-19. European Physical Journal Plus, 2021, 136, 853.	2.6	25
146	Fractional dynamics of charged particles in magnetic fields. International Journal of Modern Physics C, 2016, 27, 1650084.	1.7	24
147	Modeling the fractional non-linear SchrÃ¶dinger equation via Liouville-Caputo fractional derivative. Optik, 2018, 162, 1-7.	2.9	24
148	Fractional Kuramotoâ€“Sivashinsky equation with power law and stretched Mittag-Leffler kernel. Physica A: Statistical Mechanics and Its Applications, 2019, 527, 121085.	2.6	24
149	Finite difference/collocation method to solve multi term variableâ€order fractional reactionâ€“advectionâ€“diffusion equation in heterogeneous medium. Numerical Methods for Partial Differential Equations, 2021, 37, 2031-2045.	3.6	24
150	OPTIMAL CONTROL OF NONLINEAR TIME-DELAY FRACTIONAL DIFFERENTIAL EQUATIONS WITH DICKSON POLYNOMIALS. Fractals, 2021, 29, 2150079.	3.7	24
151	Analytical solutions of fractional wave equation with memory effect using the fractional derivative with exponential kernel. Results in Physics, 2021, 25, 104148.	4.1	24
152	Universal character of the fractional space-time electromagnetic waves in dielectric media. Journal of Electromagnetic Waves and Applications, 2015, 29, 727-740.	1.6	23
153	Design of a state observer to approximate signals by using the concept of fractional variable-order derivative. , 2017, 69, 127-139.		23
154	Tuberculosis model with relapse via fractional conformable derivative with power law. Mathematical Methods in the Applied Sciences, 2019, 42, 7113-7125.	2.3	23
155	Fractal-fractional study of the hepatitis C virus infection model. Results in Physics, 2020, 19, 103555.	4.1	23
156	Thermophysical properties of Maxwell Nanofluids via fractional derivatives with regular kernel. Journal of Thermal Analysis and Calorimetry, 2020, , 1.	3.6	22
157	Mathematical modeling of the smoking dynamics using fractional differential equations with local and nonlocal kernel. Journal of Nonlinear Science and Applications, 2018, 11, 994-1014.	1.0	22
158	Assorted soliton structures of solutions for fractional nonlinear Schrodinger types evolution equations. Journal of Ocean Engineering and Science, 2022, 7, 528-535.	4.3	22
159	A novel fractional derivative with variable- and constant-order applied to a mass-spring-damper system. European Physical Journal Plus, 2018, 133, 1.	2.6	21
160	A mathematical model of circadian rhythms synchronization using fractional differential equations system of coupled van der Pol oscillators. International Journal of Biomathematics, 2018, 11, 1850014.	2.9	21
161	Development of a portable device for measuring the corrosion rates of metals based on electrochemical noise signals. Measurement: Journal of the International Measurement Confederation, 2018, 122, 73-81.	5.0	21
162	Implementation of a fault tolerant system for the internal combustion engineâ€™s MAF sensor. Measurement: Journal of the International Measurement Confederation, 2018, 122, 91-99.	5.0	21

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163	Experimental Study on the Performance of Controllers for the Hydrogen Gas Production Demanded by an Internal Combustion Engine. Energies, 2018, 11, 2157.	3.1	21
164	Determination of supercapacitor parameters based on fractional differential equations. International Journal of Circuit Theory and Applications, 2019, 47, 1225-1253.	2.0	21
165	Numerical analysis of Galerkin meshless method for parabolic equations of tumor angiogenesis problem. European Physical Journal Plus, 2020, 135, 1.	2.6	21
166	Modeling and sensitivity analysis of HBV epidemic model with convex incidence rate. Results in Physics, 2021, 22, 103836.	4.1	21
167	Application of reinforcement learning for effective vaccination strategies of coronavirus disease 2019 (COVID-19). European Physical Journal Plus, 2021, 136, 609.	2.6	21
168	Novel optical solitons and other wave structures of solutions to the fractional order nonlinear Schrodinger equations. Optical and Quantum Electronics, 2022, 54, .	3.3	21
169	Chaos in a nonlinear Bloch system with Atanganaâ€“Baleanu fractional derivatives. Numerical Methods for Partial Differential Equations, 2018, 34, 1716-1738.	3.6	20
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