

J F GÃ³mez-Aguilar

List of Publications by Year in descending order

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330
papers

11,129
citations

23567

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335
all docs

335
docs citations

335
times ranked

3436
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated neuro-evolution heuristic with sequential quadratic programming for second-order prediction differential models. Numerical Methods for Partial Differential Equations, 2024, 40, .	3.6	26
2	Fractional viscoelastic models with Caputo generalized fractional derivative. Mathematical Methods in the Applied Sciences, 2023, 46, 7835-7846.	2.3	10
3	New models of fractional blood ethanol and two-cell cubic autocatalator reaction equations. Mathematical Methods in the Applied Sciences, 2023, 46, 7767-7778.	2.3	12
4	Fractional synchronization involving fractional derivatives with nonsingular kernels: Application to chaotic systems. Mathematical Methods in the Applied Sciences, 2023, 46, 7987-8003.	2.3	5
5	Existence, uniqueness, and Hyers-Ulam stability of solutions to nonlinear p -Laplacian singular delay fractional boundary value problems. Mathematical Methods in the Applied Sciences, 2023, 46, 8193-8207.	2.3	3
6	Multiple rational rogue waves for higher dimensional nonlinear evolution equations via symbolic computation approach. Journal of Ocean Engineering and Science, 2023, 8, 33-41.	4.3	7
7	A comparative analysis of plasma dilution based on fractional integro-differential equation: an application to biological science. International Journal of Modelling and Simulation, 2023, 43, 1-10.	3.3	12
8	Chaos control and characterization of brushless DC motor via integral and differential fractal-fractional techniques. International Journal of Modelling and Simulation, 2023, 43, 416-425.	3.3	9
9	On the numerical study of fractional and non-fractional model of nonlinear Duffing oscillator: a comparison of integer and non-integer order approaches. International Journal of Modelling and Simulation, 2023, 43, 362-375.	3.3	10
10	Shifted Chebyshev collocation of the fourth kind with convergence analysis for the space-time fractional advection-diffusion equation. Engineering With Computers, 2022, 38, 1409-1420.	6.1	16
11	A new iterative method with \mathcal{H}_0 -Laplace transform for solving fractional differential equations with Caputo generalized fractional derivative. Engineering With Computers, 2022, 38, 2125-2138.	6.1	9
12	Two efficient numerical schemes for simulating dynamical systems and capturing chaotic behaviors with Mittag-Leffler memory. Engineering With Computers, 2022, 38, 2139-2167.	6.1	13
13	Numerical solution of fractal-fractional Mittag-Leffler differential equations with variable-order using artificial neural networks. Engineering With Computers, 2022, 38, 2669-2682.	6.1	11
14	Fractal-fractional neuro-adaptive method for system identification. Engineering With Computers, 2022, 38, 3085-3108.	6.1	12
15	Soliton solutions in the conformable (2+1)-dimensional chiral nonlinear Schrödinger equation. Journal of Optics (India), 2022, 51, 289-316.	1.7	14
16	Numerical solution of q -dynamic equations. Numerical Methods for Partial Differential Equations, 2022, 38, 1162-1179.	3.6	4
17	Optimal controls for fractional stochastic differential systems driven by Rosenblatt process with impulses. Optimal Control Applications and Methods, 2022, 43, 386-401.	2.1	5
18	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

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19	Stability analysis for fractional order implicit Hilfer differential equations. <i>Mathematical Methods in the Applied Sciences</i> , 2022, 45, 2701-2712.	2.3	15
20	Analytical solutions to the fractional Lakshmanan-Porsezian-Daniel model. <i>Optical and Quantum Electronics</i> , 2022, 54, 1.	3.3	15
21	Ferromagnetic Chaos in thermal convection of fluid through fractal fractional differentiations. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 8461-8473.	3.6	17
22	Corrosion analysis in the Al6061-T6 alloy exposed to anhydrous ethanol-gasoline blends using the Stockwell transform and the Shannon energy. <i>Journal of Alloys and Compounds</i> , 2022, 902, 163802.	5.5	2
23	Dynamics and synchronization of a fractional conformable neural network with power-law. <i>European Physical Journal: Special Topics</i> , 2022, 231, 1771-1788.	2.6	6
24	Fractional viscoelastic models with novel variable and constant order fractional derivative operators. <i>Revista Mexicana De FÃsica</i> , 2022, 68, .	0.4	1
25	Artificial neural networks: a practical review of applications involving fractional calculus. <i>European Physical Journal: Special Topics</i> , 2022, 231, 2059-2095.	2.6	46
26	Non-integer order chaotic systems: numerical analysis and their synchronization scheme via M-backstepping technique. <i>European Physical Journal: Special Topics</i> , 2022, 231, 1931-1968.	2.6	4
27	Applications of Fractional Operators in Robotics: A Review. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2022, 104, 1.	3.4	20
28	GUIDERMANNIAN NEURAL NETWORKS TO INVESTIGATE THE LIÃNARD DIFFERENTIAL MODEL. <i>Fractals</i> , 2022, 30, .	3.7	6
29	The exact solutions of conformable time-fractional modified nonlinear SchrÃdinger equation by first integral method and functional variable method. <i>Optical and Quantum Electronics</i> , 2022, 54, 1.	3.3	19
30	Novel and diverse soliton constructions for nonlinear space-time fractional modified Camassa-Holm equation and Schrodinger equation. <i>Optical and Quantum Electronics</i> , 2022, 54, 1.	3.3	6
31	Generalized synchronization of commensurate fractional-order chaotic systems: Applications in secure information transmission. , 2022, 126, 103494.		12
32	The Use of a Time-Frequency Transform for the Analysis of Electrochemical Noise for Corrosion Estimation. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-11.	1.1	2
33	Mathematical modeling of COVID-19 pandemic in India using Caputo-Fabrizio fractional derivative. <i>Computers in Biology and Medicine</i> , 2022, 145, 105518.	7.0	34
34	Wave propagation in an elastic coaxial hollow cylinder when exposed to thermal heating and external load. <i>Results in Physics</i> , 2022, 38, 105582.	4.1	10
35	Artificial neural networks with conformable transfer function for improving the performance in thermal and environmental processes. <i>Neural Networks</i> , 2022, 152, 44-56.	5.9	15
36	An efficient operational matrix technique to solve the fractional order non-local boundary value problems. <i>Journal of Mathematical Chemistry</i> , 2022, 60, 1463-1479.	1.5	7

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37	Stability analysis of Atanganaâ€“Baleanu fractional stochastic differential systems with impulses. International Journal of Systems Science, 2022, 53, 3481-3495.	5.5	9
38	A variety of solitons on the oceans exposed by the Kadomtsev Petviashvili-modified equal width equation adopting different techniques. Journal of Ocean Engineering and Science, 2022, , .	4.3	16
39	A New Approach to Solve the Fractional Order Linear/Non-linear Two-Dimensional Partial Differential Equation Using Legendre Collocation Technique. Few-Body Systems, 2022, 63, .	1.5	5
40	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
41	Antiâ€“synchronization of chaotic systems using a fractional conformable derivative with power law. Mathematical Methods in the Applied Sciences, 2021, 44, 8286-8301.	2.3	10
42	New chaotic attractors: Application of fractalâ€“fractional differentiation and integration. Mathematical Methods in the Applied Sciences, 2021, 44, 3036-3065.	2.3	25
43	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
44	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
45	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
46	On solution of a class of nonlinear variable order fractional reactionâ€“diffusion equation with Mittagâ€“Leffler kernel. Numerical Methods for Partial Differential Equations, 2021, 37, 998-1011.	3.6	15
47	Optimal control problems with Atanganaâ€“Baleanu fractional derivative. Optimal Control Applications and Methods, 2021, 42, 96-109.	2.1	39
48	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
49	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
50	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
51	On the approximate solution of fractional-order Whithamâ€“Broerâ€“Kaup equations. Modern Physics Letters B, 2021, 35, 2150192.	1.9	4
52	Novel dynamical solitons for the evolution of SchrÃ¶dingerâ€“Hirota equation in optical fibres. Optical and Quantum Electronics, 2021, 53, 1.	3.3	9
53	A fuzzy fractional model of coronavirus (COVID-19) and its study with Legendre spectral method. Results in Physics, 2021, 21, 103773.	4.1	34
54	Optical solitons in birefringent fibers with quadratic-cubic nonlinearity using three integration architectures. AIP Advances, 2021, 11, .	1.3	25

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55	Modeling and sensitivity analysis of HBV epidemic model with convex incidence rate. Results in Physics, 2021, 22, 103836.	4.1	21
56	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
57	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
58	Role of bi-order Atangana-Aguilar fractional differentiation on Drude model: an analytic study for distinct sources. Optical and Quantum Electronics, 2021, 53, 1.	3.3	16
59	A predator-prey model involving variable-order fractional differential equations with Mittag-Leffler kernel. Advances in Difference Equations, 2021, 2021, .	3.5	19
60	Exact solutions of conformable fractional differential equations. Results in Physics, 2021, 22, 103916.	4.1	34
61	OPTIMAL CONTROL OF NONLINEAR TIME-DELAY FRACTIONAL DIFFERENTIAL EQUATIONS WITH DICKSON POLYNOMIALS. Fractals, 2021, 29, 2150079.	3.7	24
62	Dynamical aspects of pine wilt disease and control measures. Chaos, Solitons and Fractals, 2021, 145, 110764.	5.1	17
63	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
64	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
65	New approximate analytical solutions for the nonlinear fractional Schrödinger equation with second-order spatio-temporal dispersion via double Laplace transform method. Mathematical Methods in the Applied Sciences, 2021, 44, 11138-11156.	2.3	42
66	Application of reinforcement learning for effective vaccination strategies of coronavirus disease 2019 (COVID-19). European Physical Journal Plus, 2021, 136, 609.	2.6	21
67	A nonlinear Schrödinger equation describing the polarization mode and its chirped optical solitons. Optical and Quantum Electronics, 2021, 53, 1.	3.3	15
68	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
69	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
70	FRACTIONAL ORDER VOLTERRA INTEGRO-DIFFERENTIAL EQUATION WITH MITTAG-LEFFLER KERNEL. Fractals, 2021, 29, 2150154.	3.7	17
71	Numerical study for the fractional RL, RC, and RLC electrical circuits using Legendre pseudo-spectral method. International Journal of Circuit Theory and Applications, 2021, 49, 3266-3285.	2.0	14
72	MILD SOLUTIONS OF COUPLED HYBRID FRACTIONAL ORDER SYSTEM WITH CAPUTO-HADAMARD DERIVATIVES. Fractals, 2021, 29, 2150158.	3.7	17

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73	A novel fractional mathematical model of COVID-19 epidemic considering quarantine and latent time. Results in Physics, 2021, 26, 104286.	4.1	44
74	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
75	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
76	Fuzzy adaptive control technique for a new fractional-order supply chain system. Physica Scripta, 2021, 96, 124017.	2.5	18
77	Extraction of new super-Gaussian solitons via collective variables. Optical and Quantum Electronics, 2021, 53, 1.	3.3	14
78	Analysis of Fractional-Order Nonlinear Dynamic Systems with General Analytic Kernels: Lyapunov Stability and Inequalities. Mathematics, 2021, 9, 2084.	2.2	20
79	Novel optical solitons to the perturbed Gerdjikovâ€“Ivanov equation via collective variables. Optical and Quantum Electronics, 2021, 53, 1.	3.3	8
80	Management of pine forests by assessment of insect pests and nematodes. European Physical Journal Plus, 2021, 136, 1.	2.6	5
81	Correction to: A predatorâ€“prey model involving variable-order fractional differential equations with Mittag-Leffler kernel. Advances in Difference Equations, 2021, 2021, .	3.5	0
82	A initialâ€“boundary value problem of a biofluid influenced by a magnetic field using a fractional differential operator with non-singular kernel. Results in Physics, 2021, 28, 104633.	4.1	3
83	Further innovative optical solitons of fractional nonlinear quadratic-cubic SchrÃ¶dinger equation via two techniques. Optical and Quantum Electronics, 2021, 53, 1.	3.3	8
84	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
85	Fractional Adams-Bashforth scheme with the Liouville-Caputo derivative and application to chaotic systems. Discrete and Continuous Dynamical Systems - Series S, 2021, 14, 2455.	1.1	8
86	Travelling waves solution for fractional-order biological population model. Mathematical Modelling of Natural Phenomena, 2021, 16, 32.	2.4	13
87	Diverse soliton structures for fractional nonlinear Schrodinger equation, KdV equation and WBBM equation adopting a new technique. Optical and Quantum Electronics, 2021, 53, 1.	3.3	8
88	An analytic study of bioheat transfer Pennes model via modern non-integers differential techniques. European Physical Journal Plus, 2021, 136, 1.	2.6	17
89	Fractional order neural networks for system identification. Chaos, Solitons and Fractals, 2020, 130, 109444.	5.1	54
90	Chaos and multiple attractors in a fractalâ€“fractional Shinrikiâ€“TM's oscillator model. Physica A: Statistical Mechanics and Its Applications, 2020, 539, 122918.	2.6	46

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91	Design of a high-gain observer for the synchronization of chimera states in neurons coupled with fractional dynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 539, 122896.	2.6	13
92	A New Fractional-Order Mask for Image Edge Detection Based on Caputo's Fractional-Order Derivative Without Singular Kernel. <i>Circuits, Systems, and Signal Processing</i> , 2020, 39, 1419-1448.	2.0	27
93	Stability and numerical simulation of a fractional order plant-nectar-pollinator model. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 49-59.	6.4	61
94	Fractional dynamics and synchronization of Kuramoto oscillators with nonlocal, nonsingular and strong memory. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 1941-1952.	6.4	5
95	Robust optical flow estimation involving exponential fractional-order derivatives. <i>Optik</i> , 2020, 202, 163642.	2.9	5
96	Online ANN-based fault diagnosis implementation using an FPGA: Application in the EFI system of a vehicle. <i>ISA Transactions</i> , 2020, 100, 358-372.	5.7	28
97	Asymptomatic carriers in transmission dynamics of dengue with control interventions. <i>Optimal Control Applications and Methods</i> , 2020, 41, 430-447.	2.1	49
98	Battery state-of-charge estimation using fractional extended Kalman filter with Mittag-Leffler memory. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 1919-1929.	6.4	18
99	A Fractional Quadratic autocatalysis associated with chemical clock reactions involving linear inhibition. <i>Chaos, Solitons and Fractals</i> , 2020, 132, 109557.	5.1	26
100	A New Phasor Estimator for PMU Applications: P Class and M Class. <i>Journal of Modern Power Systems and Clean Energy</i> , 2020, 8, 55-66.	5.4	13
101	On exact solutions for time-fractional Korteweg-de Vries and Korteweg-de Vries-Burger's equations using homotopy analysis transform method. <i>Chinese Journal of Physics</i> , 2020, 63, 149-162.	3.9	81
102	Multiple attractors and periodicity on the Vallis model for El Niño/La Niña-Southern oscillation model. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2020, 197, 105172.	1.6	25
103	An efficient technique for solving the space-time fractional reaction-diffusion equation in porous media. <i>Chinese Journal of Physics</i> , 2020, 68, 483-492.	3.9	34
104	Corrosion evaluation of Aluminum 6061-T6 exposed to sugarcane bioethanol-gasoline blends using the Stockwell transform. <i>Journal of Electroanalytical Chemistry</i> , 2020, 878, 114667.	3.8	16
105	Investigating a nonlinear dynamical model of COVID-19 disease under fuzzy caputo, random and ABC fractional order derivative. <i>Chaos, Solitons and Fractals</i> , 2020, 140, 110232.	5.1	90
106	The effect of market confidence on a financial system from the perspective of fractional calculus: Numerical investigation and circuit realization. <i>Chaos, Solitons and Fractals</i> , 2020, 140, 110223.	5.1	107
107	A chaos study of tumor and effector cells in fractional tumor-immune model for cancer treatment. <i>Chaos, Solitons and Fractals</i> , 2020, 141, 110321.	5.1	143
108	Experimental implementation of a new control approach using an inverse neural network to on-demand hydrogen production. <i>Control Engineering Practice</i> , 2020, 105, 104631.	5.5	7

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109	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
110	Chaos in a three-cell population cancer model with variable-order fractional derivative with power, exponential and Mittag-Leffler memories. Chaos, Solitons and Fractals, 2020, 140, 110177.	5.1	17
111	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
112	Derivation of operational matrix of Rabotnov fractional-exponential kernel and its application to fractional Lienard equation. AEJ - Alexandria Engineering Journal, 2020, 59, 2991-2997.	6.4	6
113	Fractional order controllers increase the robustness of closed-loop deep brain stimulation systems. Chaos, Solitons and Fractals, 2020, 140, 110149.	5.1	34
114	Modeling Alcohol Concentration in Blood via a Fractional Context. Symmetry, 2020, 12, 459.	2.2	6
115	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
116	Thermophysical properties of Maxwell Nanofluids via fractional derivatives with regular kernel. Journal of Thermal Analysis and Calorimetry, 2020, , 1.	3.6	22
117	Numerical analysis of Galerkin meshless method for parabolic equations of tumor angiogenesis problem. European Physical Journal Plus, 2020, 135, 1.	2.6	21
118	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
119	A new fractional-order compartmental disease model. AEJ - Alexandria Engineering Journal, 2020, 59, 3187-3196.	6.4	33
120	Modelling of Chaotic Processes with Caputo Fractional Order Derivative. Entropy, 2020, 22, 1027.	2.2	17
121	Fractional speeded up robust features detector with the Caputo-Fabrizio derivative. Multimedia Tools and Applications, 2020, 79, 32957-32972.	3.9	4
122	Soliton solutions of the Sasaâ€™Satsuma equation in the monomode optical fibers including the beta-derivatives. Optik, 2020, 224, 165425.	2.9	68
123	The Riemannâ€™Liouville fractional derivative for Ambartsumian equation. Results in Physics, 2020, 19, 103551.	4.1	18
124	Fractal-fractional study of the hepatitis C virus infection model. Results in Physics, 2020, 19, 103555.	4.1	23
125	Generalized â€™expansion method for some soliton wave solutions of Burgersâ€™like and potentialKdVequations. Numerical Methods for Partial Differential Equations, 2020, , .	3.6	1
126	Biswasâ€™Arshed equation with the beta time derivative: Optical solitons and other solutions. Optik, 2020, 217, 164801.	2.9	89

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127	EXISTENCE RESULTS AND STABILITY CRITERIA FOR ABC-FUZZY-VOLTERRA INTEGRO-DIFFERENTIAL EQUATION. <i>Fractals</i> , 2020, 28, 2040048.	3.7	36
128	ANALYSIS OF FRACTALâ€“FRACTIONAL MALARIA TRANSMISSION MODEL. <i>Fractals</i> , 2020, 28, 2040041.	3.7	54
129	FRACTIONAL-ORDER PASSIVITY-BASED ADAPTIVE CONTROLLER FOR A ROBOT MANIPULATOR TYPE SCARA. <i>Fractals</i> , 2020, 28, 2040008.	3.7	10
130	ANALYSIS OF DENGUE FEVER OUTBREAK BY GENERALIZED FRACTIONAL DERIVATIVE. <i>Fractals</i> , 2020, 28, 2040038.	3.7	7
131	Variable-order fractal-fractional time delay equations with power, exponential and Mittag-Leffler laws and their numerical solutions. <i>Engineering With Computers</i> , 2020, , 1.	6.1	11
132	DOUBLE-QUASI-WAVELET NUMERICAL METHOD FOR THE VARIABLE-ORDER TIME FRACTIONAL AND RIESZ SPACE FRACTIONAL REACTIONâ€“DIFFUSION EQUATION INVOLVING DERIVATIVES IN CAPUTOâ€“FABRIZIO SENSE. <i>Fractals</i> , 2020, 28, 2040047.	3.7	2
133	Numerical solutions for the reactionâ€“diffusion, diffusionâ€“wave, and Cattaneo equations using a new operational matrix for the Caputoâ€“Fabrizio derivative. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 8595-8607.	2.3	19
134	Approximation of partial integro differential equations with a weakly singular kernel using local meshless method. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 2091-2100.	6.4	12
135	Trajectory tracking control based on non-singular fractional derivatives for the PUMA 560 robot arm. <i>Multibody System Dynamics</i> , 2020, 50, 259-303.	2.7	15
136	Analytical and numerical study of the DNA dynamics arising in oscillator-chain of Peyrard-Bishop model. <i>Chaos, Solitons and Fractals</i> , 2020, 139, 110089.	5.1	100
137	Role of Fourier sine transform on the dynamical model of tensioned carbon nanotubes with fractional operator. <i>Mathematical Methods in the Applied Sciences</i> , 2020, , .	2.3	20
138	Dynamical study of fractional order mutualism parasitism food web module. <i>Chaos, Solitons and Fractals</i> , 2020, 134, 109685.	5.1	76
139	A fractional order HIVâ€“TB coinfection model with nonsingular Mittagâ€“Leffler Law. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 3786-3806.	2.3	99
140	Modelling and control of the spark timing of an internal combustion engine based on an ANN. <i>Combustion Theory and Modelling</i> , 2020, 24, 510-529.	1.9	10
141	Solutions of a disease model with fractional white noise. <i>Chaos, Solitons and Fractals</i> , 2020, 137, 109840.	5.1	30
142	Novel Fractional Operators with Three Orders and Power-Law, Exponential Decay and Mittagâ€“Leffler Memories Involving the Truncated M-Derivative. <i>Symmetry</i> , 2020, 12, 626.	2.2	13
143	Approximate analytical solution of twoâ€“dimensional spaceâ€“time fractional diffusion equation. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 7194-7207.	2.3	8
144	Dynamical features of pine wilt disease model with asymptotic carrier. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	11

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145	Short communication: The effects of not controlling the hydrogen supplied to an internal combustion engine. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 14991-14996.	7.1	11
146	APPROXIMATE ENDPOINT SOLUTIONS FOR A CLASS OF FRACTIONAL q-DIFFERENTIAL INCLUSIONS BY COMPUTATIONAL RESULTS. <i>Fractals</i> , 2020, 28, 2040029.	3.7	16
147	Chaotic Systems and Synchronization Involving Fractional Conformable Operators of the Riemann-Liouville Type. , 2020, , 335-352.		3
148	A novel predictor-corrector scheme for solving variable-order fractional delay differential equations involving operators with Mittag-Leffler kernel. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2020, 13, 561-574.	1.1	4
149	Mathematical modeling approach to the fractional Bergman's model. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2020, 13, 805-821.	1.1	2
150	Some new mathematical models of the fractional-order system of human immune against IAV infection. <i>Mathematical Biosciences and Engineering</i> , 2020, 17, 4942-4969.	1.9	32
151	A transform based local RBF method for 2D linear PDE with Caputoâ€™Fabrizio derivative. <i>Comptes Rendus Mathematique</i> , 2020, 358, 831-842.	0.3	6
152	Image Edge Detection Using Fractional Conformable Derivatives in Liouville-Caputo Sense for Medical Image Processing. , 2020, , 1-54.		2
153	A new modified definition of Caputoâ€™Fabrizio fractional-order derivative and their applications to the Multi Step Homotopy Analysis Method (MHAM). <i>Journal of Computational and Applied Mathematics</i> , 2019, 346, 247-260.	2.0	85
154	Synchronization patterns with strong memory adaptive control in networks of coupled neurons with chimera states dynamics. <i>Chaos, Solitons and Fractals</i> , 2019, 128, 167-175.	5.1	9
155	Tuberculosis model with relapse via fractional conformable derivative with power law. <i>Mathematical Methods in the Applied Sciences</i> , 2019, 42, 7113-7125.	2.3	23
156	New singular soliton solutions to the longitudinal wave equation in a magneto-electro-elastic circular rod with M-derivative. <i>Modern Physics Letters B</i> , 2019, 33, 1950251.	1.9	53
157	On the dynamics of fractional maps with power-law, exponential decay and Mittagâ€™Leffler memory. <i>Chaos, Solitons and Fractals</i> , 2019, 127, 364-388.	5.1	42
158	Fractional Mass-Spring-Damper System Described by Generalized Fractional Order Derivatives. <i>Fractal and Fractional</i> , 2019, 3, 39.	3.3	14
159	Blood vessel detection based on fractional Hessian matrix with non-singular Mittagâ€™Leffler Gaussian kernel. <i>Biomedical Signal Processing and Control</i> , 2019, 54, 101584.	5.7	30
160	Existence and Hyers-Ulam stability for a nonlinear singular fractional differential equations with Mittag-Leffler kernel. <i>Chaos, Solitons and Fractals</i> , 2019, 127, 422-427.	5.1	138
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