

# J F GÃ³mez-Aguilar

## List of Publications by Year in descending order

Source: [//exaly.com/author-pdf/2109121/publications.pdf](https://exaly.com/author-pdf/2109121/publications.pdf)

Version: 2024-02-01

329  
papers

11,129  
citations

23748

58  
h-index

58993

82  
g-index

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. <i>Numerical Methods for Partial Differential Equations</i> , 2024, 40, .	3.7	26
2	Fractional viscoelastic models with Caputo generalized fractional derivative. <i>Mathematical Methods in the Applied Sciences</i> , 2023, 46, 7835-7846.	2.2	10
3	New models of fractional blood ethanol and two-cell cubic autocatalator reaction equations. <i>Mathematical Methods in the Applied Sciences</i> , 2023, 46, 7767-7778.	2.2	12
4	Fractional synchronization involving fractional derivatives with nonsingular kernels: Application to chaotic systems. <i>Mathematical Methods in the Applied Sciences</i> , 2023, 46, 7987-8003.	2.2	5
5	Existence, uniqueness, and Hyers-Ulam stability of solutions to nonlinear $p$ -Laplacian singular delay fractional boundary value problems. <i>Mathematical Methods in the Applied Sciences</i> , 2023, 46, 8193-8207.	2.2	3
6	Multiple rational rogue waves for higher dimensional nonlinear evolution equations via symbolic computation approach. <i>Journal of Ocean Engineering and Science</i> , 2023, 8, 33-41.	4.5	7
7	A comparative analysis of plasma dilution based on fractional integro-differential equation: an application to biological science. <i>International Journal of Modelling and Simulation</i> , 2023, 43, 1-10.	3.3	12
8	Chaos control and characterization of brushless DC motor via integral and differential fractal-fractional techniques. <i>International Journal of Modelling and Simulation</i> , 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. <i>International Journal of Modelling and Simulation</i> , 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. <i>Engineering With Computers</i> , 2022, 38, 1409-1420.	5.8	16
11	A new iterative method with $\mathcal{H}_0$ -Laplace transform for solving fractional differential equations with Caputo generalized fractional derivative. <i>Engineering With Computers</i> , 2022, 38, 2125-2138.	5.8	9
12	Thermophysical properties of Maxwell Nanofluids via fractional derivatives with regular kernel. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 449-459.	3.6	22
13	Two efficient numerical schemes for simulating dynamical systems and capturing chaotic behaviors with Mittag-Leffler memory. <i>Engineering With Computers</i> , 2022, 38, 2139-2167.	5.8	13
14	Variable-order fractal-fractional time delay equations with power, exponential and Mittag-Leffler laws and their numerical solutions. <i>Engineering With Computers</i> , 2022, 38, 555-577.	5.8	11
15	Numerical solution of fractal-fractional Mittag-Leffler differential equations with variable-order using artificial neural networks. <i>Engineering With Computers</i> , 2022, 38, 2669-2682.	5.8	11
16	Fractal-fractional neuro-adaptive method for system identification. <i>Engineering With Computers</i> , 2022, 38, 3085-3108.	5.8	12
17	Soliton solutions in the conformable $(2+1)$ -dimensional chiral nonlinear Schrödinger equation. <i>Journal of Optics (India)</i> , 2022, 51, 289-316.	1.7	14
18	Numerical solution of $q$ -dynamic equations. <i>Numerical Methods for Partial Differential Equations</i> , 2022, 38, 1162-1179.	3.7	4

#	ARTICLE	IF	CITATIONS
19	Optimal controls for fractional stochastic differential systems driven by Rosenblatt process with impulses. <i>Optimal Control Applications and Methods</i> , 2022, 43, 386-401.	2.1	5
20	Assorted soliton structures of solutions for fractional nonlinear Schrodinger types evolution equations. <i>Journal of Ocean Engineering and Science</i> , 2022, 7, 528-535.	4.5	22
21	Stability analysis for fractional order implicit Hilfer differential equations. <i>Mathematical Methods in the Applied Sciences</i> , 2022, 45, 2701-2712.	2.2	15
22	Analytical solutions to the fractional Lakshmanan-Porsezian-Daniel model. <i>Optical and Quantum Electronics</i> , 2022, 54, 1.	3.3	15
23	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
24	Anti-synchronization of a M-Hopfield neural network with generalized hyperbolic tangent activation function. <i>European Physical Journal: Special Topics</i> , 2022, 231, 1801-1814.	2.6	5
25	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.	5.6	2
26	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
27	Fractional viscoelastic models with novel variable and constant order fractional derivative operators. <i>Revista Mexicana De FÃsica</i> , 2022, 68, .	0.4	1
28	A new local fractional derivative applied to the analytical solutions for the nonlinear SchrÃdinger equation with third-order dispersion. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2022, 31, .	2.3	8
29	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
30	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
31	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
32	GUIDERMANNIAN NEURAL NETWORKS TO INVESTIGATE THE LIÃNARD DIFFERENTIAL MODEL. <i>Fractals</i> , 2022, 30, .	3.7	6
33	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
34	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
35	Generalized synchronization of commensurate fractional-order chaotic systems: Applications in secure information transmission. , 2022, 126, 103494.		12
36	Investigating the dynamics of Hilfer fractional operator associated with certain electric circuit models. <i>International Journal of Circuit Theory and Applications</i> , 2022, 50, 2320-2341.	2.0	6

#	ARTICLE	IF	CITATIONS
37	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
38	Mathematical modeling of COVID-19 pandemic in India using Caputo-Fabrizio fractional derivative. <i>Computers in Biology and Medicine</i> , 2022, 145, 105518.	7.2	34
39	Wave propagation in an elastic coaxial hollow cylinder when exposed to thermal heating and external load. <i>Results in Physics</i> , 2022, 38, 105582.	4.2	10
40	Artificial neural networks with conformable transfer function for improving the performance in thermal and environmental processes. <i>Neural Networks</i> , 2022, 152, 44-56.	6.2	15
41	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.	1.6	7
42	Stability analysis of Atangana-Baleanu fractional stochastic differential systems with impulses. <i>International Journal of Systems Science</i> , 2022, 53, 3481-3495.	5.5	9
43	A variety of solitons on the oceans exposed by the Kadomtsev Petviashvili-modified equal width equation adopting different techniques. <i>Journal of Ocean Engineering and Science</i> , 2022, , .	4.5	16
44	A New Approach to Solve the Fractional Order Linear/Non-linear Two-Dimensional Partial Differential Equation Using Legendre Collocation Technique. <i>Few-Body Systems</i> , 2022, 63, .	1.5	5
45	Novel optical solitons and other wave structures of solutions to the fractional order nonlinear Schrodinger equations. <i>Optical and Quantum Electronics</i> , 2022, 54, .	3.3	21
46	Anti-synchronization of chaotic systems using a fractional conformable derivative with power law. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 8286-8301.	2.2	10
47	New chaotic attractors: Application of fractal-fractional differentiation and integration. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 3036-3065.	2.2	25
48	Optical solitons solution of resonance nonlinear Schrödinger type equation with Atangana's-conformable derivative using sub-equation method. <i>Waves in Random and Complex Media</i> , 2021, 31, 573-596.	2.7	45
49	Finite difference/collocation method to solve multi term variable-order fractional reaction-advection-diffusion equation in heterogeneous medium. <i>Numerical Methods for Partial Differential Equations</i> , 2021, 37, 2031-2045.	3.7	24
50	Antiretroviral therapy of HIV infection using a novel optimal type-2 fuzzy control strategy. <i>AEl - Alexandria Engineering Journal</i> , 2021, 60, 1545-1555.	6.7	33
51	On solution of a class of nonlinear variable order fractional reaction-diffusion equation with Mittag-Leffler kernel. <i>Numerical Methods for Partial Differential Equations</i> , 2021, 37, 998-1011.	3.7	15
52	Optimal control problems with Atangana-Baleanu fractional derivative. <i>Optimal Control Applications and Methods</i> , 2021, 42, 96-109.	2.1	39
53	Investigation of a system of nonlinear fractional order hybrid differential equations under usual boundary conditions for existence of solution. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 1628-1638.	2.2	26
54	Heat transfer in magnetohydrodynamic free convection flow of generalized ferrofluid with magnetite nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 3633-3642.	3.6	32

#	ARTICLE	IF	CITATIONS
55	Fractional Modeling of Fin on non-Fourier Heat Conduction via Modern Fractional Differential Operators. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 2901-2910.	3.0	28
56	On the approximate solution of fractional-order Whithamâ€™Broerâ€™Kaup equations. <i>Modern Physics Letters B</i> , 2021, 35, 2150192.	1.9	4
57	Novel dynamical solitons for the evolution of SchrÃ¶dingerâ€™Hirota equation in optical fibres. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	3.3	9
58	A fuzzy fractional model of coronavirus (COVID-19) and its study with Legendre spectral method. <i>Results in Physics</i> , 2021, 21, 103773.	4.2	34
59	Optical solitons in birefringent fibers with quadratic-cubic nonlinearity using three integration architectures. <i>AIP Advances</i> , 2021, 11, .	1.3	25
60	Modeling and sensitivity analysis of HBV epidemic model with convex incidence rate. <i>Results in Physics</i> , 2021, 22, 103836.	4.2	21
61	Spectral Entropy Analysis and Synchronization of a Multi-Stable Fractional-Order Chaotic System using a Novel Neural Network-Based Chattering-Free Sliding Mode Technique. <i>Chaos, Solitons and Fractals</i> , 2021, 144, 110576.	5.2	88
62	Enhancement of the performance of nonlinear vibration energy harvesters by exploiting secondary resonances in multi-frequency excitations. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	25
63	Role of bi-order Atanganaâ€™Aguilar fractional differentiation on Drude model: an analytic study for distinct sources. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	3.3	16
64	A predatorâ€™prey model involving variable-order fractional differential equations with Mittag-Leffler kernel. <i>Advances in Difference Equations</i> , 2021, 2021, .	3.5	19
65	Exact solutions of conformable fractional differential equations. <i>Results in Physics</i> , 2021, 22, 103916.	4.2	34
66	OPTIMAL CONTROL OF NONLINEAR TIME-DELAY FRACTIONAL DIFFERENTIAL EQUATIONS WITH DICKSON POLYNOMIALS. <i>Fractals</i> , 2021, 29, 2150079.	3.7	24
67	Dynamical aspects of pine wilt disease and control measures. <i>Chaos, Solitons and Fractals</i> , 2021, 145, 110764.	5.2	17
68	Mathematical modeling of coronavirus disease COVID-19 dynamics using CF and ABC non-singular fractional derivatives. <i>Chaos, Solitons and Fractals</i> , 2021, 145, 110757.	5.2	41
69	On the variable-order fractional memristor oscillator: Data security applications and synchronization using a type-2 fuzzy disturbance observer-based robust control. <i>Chaos, Solitons and Fractals</i> , 2021, 145, 110681.	5.2	81
70	New approximate analytical solutions for the nonlinear fractional SchrÃ¶dinger equation with secondâ€™order spatioâ€™temporal dispersion via double Laplace transform method. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 11138-11156.	2.2	42
71	Application of reinforcement learning for effective vaccination strategies of coronavirus disease 2019 (COVID-19). <i>European Physical Journal Plus</i> , 2021, 136, 609.	2.6	21
72	A nonlinear SchrÃ¶dinger equation describing the polarization mode and its chirped optical solitons. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	3.3	15

#	ARTICLE	IF	CITATIONS
73	The Tikhonov regularization method for the inverse source problem of time fractional heat equation in the view of ABC-fractional technique. <i>Physica Scripta</i> , 2021, 96, 094006.	2.5	90
74	Analytical solutions of fractional wave equation with memory effect using the fractional derivative with exponential kernel. <i>Results in Physics</i> , 2021, 25, 104148.	4.2	24
75	FRACTIONAL ORDER VOLTERRA INTEGRO-DIFFERENTIAL EQUATION WITH MITTAG-LEFFLER KERNEL. <i>Fractals</i> , 2021, 29, 2150154.	3.7	17
76	Numerical study for the fractional RL, RC, and RLC electrical circuits using Legendre pseudo-spectral method. <i>International Journal of Circuit Theory and Applications</i> , 2021, 49, 3266-3285.	2.0	14
77	MILD SOLUTIONS OF COUPLED HYBRID FRACTIONAL ORDER SYSTEM WITH CAPUTO-HADAMARD DERIVATIVES. <i>Fractals</i> , 2021, 29, 2150158.	3.7	17
78	A novel fractional mathematical model of COVID-19 epidemic considering quarantine and latent time. <i>Results in Physics</i> , 2021, 26, 104286.	4.2	44
79	TRACKING CONTROL AND STABILIZATION OF A FRACTIONAL FINANCIAL RISK SYSTEM USING NOVEL ACTIVE FINITE-TIME FAULT-TOLERANT CONTROLS. <i>Fractals</i> , 2021, 29, 2150155.	3.7	26
80	Bifurcation analysis of a discrete-time compartmental model for hypertensive or diabetic patients exposed to COVID-19. <i>European Physical Journal Plus</i> , 2021, 136, 853.	2.6	25
81	Fuzzy adaptive control technique for a new fractional-order supply chain system. <i>Physica Scripta</i> , 2021, 96, 124017.	2.5	18
82	Extraction of new super-Gaussian solitons via collective variables. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	3.3	14
83	Analysis of Fractional-Order Nonlinear Dynamic Systems with General Analytic Kernels: Lyapunov Stability and Inequalities. <i>Mathematics</i> , 2021, 9, 2084.	2.3	20
84	Novel optical solitons to the perturbed Gerdjikov-Ivanov equation via collective variables. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	3.3	8
85	Management of pine forests by assessment of insect pests and nematodes. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	5
86	A initial-boundary value problem of a biofluid influenced by a magnetic field using a fractional differential operator with non-singular kernel. <i>Results in Physics</i> , 2021, 28, 104633.	4.2	3
87	Further innovative optical solitons of fractional nonlinear quadratic-cubic Schrödinger equation via two techniques. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	3.3	8
88	Neuro-swarm intelligent computing paradigm for nonlinear HIV infection model with CD4+ T-cells. <i>Mathematics and Computers in Simulation</i> , 2021, 188, 241-253.	4.6	69
89	Fractional Adams-Bashforth scheme with the Liouville-Caputo derivative and application to chaotic systems. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2021, 14, 2455.	1.1	8
90	Travelling waves solution for fractional-order biological population model. <i>Mathematical Modelling of Natural Phenomena</i> , 2021, 16, 32.	2.3	13

#	ARTICLE	IF	CITATIONS
91	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
92	An analytic study of bioheat transfer Pennes model via modern non-integers differential techniques. European Physical Journal Plus, 2021, 136, 1.	2.6	17
93	Fractional order neural networks for system identification. Chaos, Solitons and Fractals, 2020, 130, 109444.	5.2	54
94	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
95	Design of a high-gain observer for the synchronization of chimera states in neurons coupled with fractional dynamics. Physica A: Statistical Mechanics and Its Applications, 2020, 539, 122896.	2.6	13
96	A New Fractional-Order Mask for Image Edge Detection Based on Caputoâ€™s Fractional-Order Derivative Without Singular Kernel. Circuits, Systems, and Signal Processing, 2020, 39, 1419-1448.	2.0	27
97	Stability and numerical simulation of a fractional order plant-nectar-pollinator model. AEJ - Alexandria Engineering Journal, 2020, 59, 49-59.	6.7	61
98	Fractional dynamics and synchronization of Kuramoto oscillators with nonlocal, nonsingular and strong memory. AEJ - Alexandria Engineering Journal, 2020, 59, 1941-1952.	6.7	5
99	Robust optical flow estimation involving exponential fractional-order derivatives. Optik, 2020, 202, 163642.	2.9	5
100	Online ANN-based fault diagnosis implementation using an FPGA: Application in the EFI system of a vehicle. ISA Transactions, 2020, 100, 358-372.	6.1	28
101	Asymptomatic carriers in transmission dynamics of dengue with control interventions. Optimal Control Applications and Methods, 2020, 41, 430-447.	2.1	49
102	Battery state-of-charge estimation using fractional extended Kalman filter with Mittag-Leffler memory. AEJ - Alexandria Engineering Journal, 2020, 59, 1919-1929.	6.7	18
103	A Fractional Quadratic autocatalysis associated with chemical clock reactions involving linear inhibition. Chaos, Solitons and Fractals, 2020, 132, 109557.	5.2	26
104	A New Phasor Estimator for PMU Applications: P Class and M Class. Journal of Modern Power Systems and Clean Energy, 2020, 8, 55-66.	5.4	13
105	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.	4.0	81
106	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.	1.7	25
107	An efficient technique for solving the space-time fractional reaction-diffusion equation in porous media. Chinese Journal of Physics, 2020, 68, 483-492.	4.0	34
108	Corrosion evaluation of Aluminum 6061-T6 exposed to sugarcane bioethanol-gasoline blends using the Stockwell transform. Journal of Electroanalytical Chemistry, 2020, 878, 114667.	3.9	16

#	ARTICLE	IF	CITATIONS
109	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.	5.2	90
110	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.	5.2	107
111	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.	5.2	143
112	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.	5.6	7
113	A fractional numerical study on a chronic hepatitis C virus infection model with immune response. <i>Chaos, Solitons and Fractals</i> , 2020, 139, 110062.	5.2	35
114	Chaos in a three-cell population cancer model with variable-order fractional derivative with power, exponential and Mittag-Leffler memories. <i>Chaos, Solitons and Fractals</i> , 2020, 140, 110177.	5.2	17
115	A variety of new optical soliton solutions related to the nonlinear SchrÃ¶dinger equation with time-dependent coefficients. <i>Optik</i> , 2020, 222, 165389.	2.9	30
116	Derivation of operational matrix of Rabotnov fractional-exponential kernel and its application to fractional Lienard equation. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 2991-2997.	6.7	6
117	Fractional order controllers increase the robustness of closed-loop deep brain stimulation systems. <i>Chaos, Solitons and Fractals</i> , 2020, 140, 110149.	5.2	34
118	Modeling Alcohol Concentration in Blood via a Fractional Context. <i>Symmetry</i> , 2020, 12, 459.	2.3	6
119	Optimal Control of Time-Delay Fractional Equations via a Joint Application of Radial Basis Functions and Collocation Method. <i>Entropy</i> , 2020, 22, 1213.	2.2	54
120	Numerical analysis of Galerkin meshless method for parabolic equations of tumor angiogenesis problem. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	21
121	FMNEICS: fractional Meyer neuro-evolution-based intelligent computing solver for doubly singular multi-fractional order Laneâ€™Emden system. <i>Computational and Applied Mathematics</i> , 2020, 39, 1.	2.2	82
122	A new fractional-order compartmental disease model. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 3187-3196.	6.7	33
123	Modelling of Chaotic Processes with Caputo Fractional Order Derivative. <i>Entropy</i> , 2020, 22, 1027.	2.2	17
124	Fractional speeded up robust features detector with the Caputo-Fabrizio derivative. <i>Multimedia Tools and Applications</i> , 2020, 79, 32957-32972.	4.0	4
125	Soliton solutions of the Sasaâ€™Satsuma equation in the monomode optical fibers including the beta-derivatives. <i>Optik</i> , 2020, 224, 165425.	2.9	68
126	The Riemannâ€™Liouville fractional derivative for Ambartsumian equation. <i>Results in Physics</i> , 2020, 19, 103551.	4.2	18



#	ARTICLE	IF	CITATIONS
127	Fractal-fractional study of the hepatitis C virus infection model. Results in Physics, 2020, 19, 103555.	4.2	23
128	Biswasâ€™Arshed equation with the beta time derivative: Optical solitons and other solutions. Optik, 2020, 217, 164801.	2.9	89
129	EXISTENCE RESULTS AND STABILITY CRITERIA FOR ABC-FUZZY-VOLTERRA INTEGRO-DIFFERENTIAL EQUATION. Fractals, 2020, 28, 2040048.	3.7	36
130	ANALYSIS OF FRACTALâ€™FRACTIONAL MALARIA TRANSMISSION MODEL. Fractals, 2020, 28, 2040041.	3.7	54
131	FRACTIONAL-ORDER PASSIVITY-BASED ADAPTIVE CONTROLLER FOR A ROBOT MANIPULATOR TYPE SCARA. Fractals, 2020, 28, 2040008.	3.7	10
132	ANALYSIS OF DENGUE FEVER OUTBREAK BY GENERALIZED FRACTIONAL DERIVATIVE. Fractals, 2020, 28, 2040038.	3.7	7
133	DOUBLE-QUASI-WAVELET NUMERICAL METHOD FOR THE VARIABLE-ORDER TIME FRACTIONAL AND RIESZ SPACE FRACTIONAL REACTIONâ€™DIFFUSION EQUATION INVOLVING DERIVATIVES IN CAPUTOâ€™FABRIZIO SENSE. Fractals, 2020, 28, 2040047.	3.7	2
134	Numerical solutions for the reactionâ€™diffusion, diffusionâ€™wave, and Cattaneo equations using a new operational matrix for the Caputoâ€™Fabrizio derivative. Mathematical Methods in the Applied Sciences, 2020, 43, 8595-8607.	2.2	19
135	Approximation of partial integro differential equations with a weakly singular kernel using local meshless method. AEJ - Alexandria Engineering Journal, 2020, 59, 2091-2100.	6.7	12
136	Trajectory tracking control based on non-singular fractional derivatives for the PUMA 560 robot arm. Multibody System Dynamics, 2020, 50, 259-303.	2.7	15
137	Analytical and numerical study of the DNA dynamics arising in oscillator-chain of Peyrard-Bishop model. Chaos, Solitons and Fractals, 2020, 139, 110089.	5.2	100
138	Dynamical study of fractional order mutualism parasitism food web module. Chaos, Solitons and Fractals, 2020, 134, 109685.	5.2	76
139	A fractional order HIVâ€™TB coinfection model with nonsingular Mittagâ€™Leffler Law. Mathematical Methods in the Applied Sciences, 2020, 43, 3786-3806.	2.2	99
140	Modelling and control of the spark timing of an internal combustion engine based on an ANN. Combustion Theory and Modelling, 2020, 24, 510-529.	1.8	10
141	Solutions of a disease model with fractional white noise. Chaos, Solitons and Fractals, 2020, 137, 109840.	5.2	30
142	Novel Fractional Operators with Three Orders and Power-Law, Exponential Decay and Mittagâ€™Leffler Memories Involving the Truncated M-Derivative. Symmetry, 2020, 12, 626.	2.3	13
143	Approximate analytical solution of twoâ€™dimensional spaceâ€™time fractional diffusion equation. Mathematical Methods in the Applied Sciences, 2020, 43, 7194-7207.	2.2	8
144	Dynamical features of pine wilt disease model with asymptotic carrier. European Physical Journal Plus, 2020, 135, 1.	2.6	11

#	ARTICLE	IF	CITATIONS
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.	7.2	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.	2.0	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.	5.2	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.	2.2	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.	5.2	42
158	Fractional Mass-Spring-Damper System Described by Generalized Fractional Order Derivatives. <i>Fractal and Fractional</i> , 2019, 3, 39.	3.4	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.	5.8	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.	5.2	138
161	Heat Transfer Coefficients Analysis in a Helical Double-Pipe Evaporator: Nusselt Number Correlations through Artificial Neural Networks. <i>Entropy</i> , 2019, 21, 689.	2.2	16
162	Analysis of the local Drude model involving the generalized fractional derivative. <i>Optik</i> , 2019, 193, 163008.	2.9	14

#	ARTICLE	IF	CITATIONS
163	New exact optical soliton solutions for nonlinear Schrödinger equation with second-order spatio-temporal dispersion involving M-derivative. <i>Modern Physics Letters B</i> , 2019, 33, 1950235.	1.9	72
164	Optical soliton solutions for the nonlinear Radhakrishnan-Kundu-Lakshmanan equation. <i>Modern Physics Letters B</i> , 2019, 33, 1950402.	1.9	67
165	Global optimization algorithms applied to solve a multi-variable inverse artificial neural network to improve the performance of an absorption heat transformer with energy recycling. <i>Applied Soft Computing Journal</i> , 2019, 85, 105801.	7.3	13
166	Double pipe heat exchanger temperatures estimation using fractional observers. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	7
167	Role of modern fractional derivatives in an armature-controlled DC servomotor. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	31
168	Dynamics of rational solutions in a new generalized Kadomtsev-Petviashvili equation. <i>Modern Physics Letters B</i> , 2019, 33, 1950437.	1.9	40
169	A new class of conformable spectral observers for signal reconstruction. <i>Mathematical Methods in the Applied Sciences</i> , 2019, 42, 7335-7348.	2.2	1
170	On a more general fractional integration by parts formulae and applications. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 536, 122494.	2.6	25
171	Fractional Meissner-Ochsenfeld effect in superconductors. <i>Modern Physics Letters B</i> , 2019, 33, 1950316.	1.9	8
172	Functional application of Fourier sine transform in radiating gas flow with non-singular and non-local kernel. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	1.7	36
173	Fractional dynamics of an erbium-doped fiber laser model. <i>Optical and Quantum Electronics</i> , 2019, 51, 1.	3.3	12
174	Electrochemical noise analysis to identify the corrosion type using the Stockwell transform and the Shannon energy. <i>Journal of Electroanalytical Chemistry</i> , 2019, 836, 50-61.	3.9	20
175	Stability analysis for fractional order advection-reaction diffusion system. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 521, 737-751.	2.6	66
176	Modelling, analysis and simulations of some chaotic systems using derivative with Mittag-Leffler kernel. <i>Chaos, Solitons and Fractals</i> , 2019, 125, 54-63.	5.2	37
177	A novel method to solve variable-order fractional delay differential equations based in lagrange interpolations. <i>Chaos, Solitons and Fractals</i> , 2019, 126, 266-282.	5.2	15
178	Electrochemical noise signals evaluation to classify the type of corrosion using Synchrosqueezing transform. <i>Journal of Electroanalytical Chemistry</i> , 2019, 848, 113249.	3.9	20
179	A fractional mathematical model of breast cancer competition model. <i>Chaos, Solitons and Fractals</i> , 2019, 127, 38-54.	5.2	48
180	Analytical solutions of electrical circuits considering certain generalized fractional derivatives. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	35

#	ARTICLE	IF	CITATIONS
181	Determination of supercapacitor parameters based on fractional differential equations. International Journal of Circuit Theory and Applications, 2019, 47, 1225-1253.	2.0	21
182	Generalized optical soliton solutions to the (3+1)-dimensional resonant nonlinear Schrödinger equation with Kerr and parabolic law nonlinearities. Optical and Quantum Electronics, 2019, 51, 1.	3.3	29
183	A dynamical model of asymptomatic carrier zika virus with optimal control strategies. Nonlinear Analysis: Real World Applications, 2019, 50, 144-170.	1.8	79
184	Fractional Kuramoto-Sivashinsky equation with power law and stretched Mittag-Leffler kernel. Physica A: Statistical Mechanics and Its Applications, 2019, 527, 121085.	2.6	24
185	Fractional Multi-Step Differential Transformed Method for Approximating a Fractional Stochastic SIS Epidemic Model with Imperfect Vaccination. International Journal of Environmental Research and Public Health, 2019, 16, 973.	2.7	18
186	M-derivative applied to the dispersive optical solitons for the Schrödinger-Hirota equation. European Physical Journal Plus, 2019, 134, 1.	2.6	25
187	Stability analysis and numerical solutions of fractional order HIV/AIDS model. Chaos, Solitons and Fractals, 2019, 122, 119-128.	5.2	126
188	Mathematical formulation of hepatitis B virus with optimal control analysis. Optimal Control Applications and Methods, 2019, 40, 529-544.	2.1	67
189	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.	1.7	53
190	A comparison of heat and mass transfer on a Walter-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
191	Chaos in a calcium oscillation model via Atangana-Baleanu operator with strong memory. European Physical Journal Plus, 2019, 134, 1.	2.6	50
192	Fundamental solutions of the fractional Fresnel equation in the real half-line. Physica A: Statistical Mechanics and Its Applications, 2019, 521, 807-827.	2.6	4
193	Numerical solutions of the fractional Fisher type equations with Atangana-Baleanu fractional derivative by using spectral collocation methods. Chaos, 2019, 29, 023116.	2.6	113
194	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
195	Dual Fractional Analysis of Blood Alcohol Model Via Non-integer Order Derivatives. Studies in Systems, Decision and Control, 2019, , 69-79.	0.9	8
196	Parameter Estimation of Fractional Gompertz Model Using Cuckoo Search Algorithm. Studies in Systems, Decision and Control, 2019, , 81-95.	0.9	6
197	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
198	Electrochemical noise analysis to identify the corrosion type using the stockwell transform and the shannon energy: Part II. Journal of Electroanalytical Chemistry, 2019, 855, 113597.	3.9	11

#	ARTICLE	IF	CITATIONS
199	Analysis of De-Levieâ€™s model via modern fractional differentiations: An application to supercapacitor. AEJ - Alexandria Engineering Journal, 2019, 58, 1375-1384.	6.7	15
200	Analysis of two avian influenza epidemic models involving fractal-fractional derivatives with power and Mittag-Leffler memories. Chaos, 2019, 29, 123113.	2.6	51
201	Modelling the effects of heavy alcohol consumption on the transmission dynamics of gonorrhoea with optimal control. Mathematical Biosciences, 2019, 309, 1-11.	1.9	50
202	On the coâ€infection of dengue fever and Zika virus. Optimal Control Applications and Methods, 2019, 40, 394-421.	2.1	66
203	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.	2.2	43
204	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
205	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
206	Fitting of experimental data using a fractional Kalman-like observer. ISA Transactions, 2019, 88, 153-169.	6.1	9
207	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
208	Modelling the oxygen diffusion equation within the scope of fractional calculus. Thermal Science, 2019, 23, 1279-1287.	1.2	4
209	The generalized exponential rational function method for Radhakrishnan-Kundu-Lakshmanan equation with $I^2$ -conformable time derivative. Revista Mexicana De FÃsica, 2019, 65, 503-518.	0.4	51
210	On the New Fractional Operator and Application to Nonlinear Bloch System. Springer Proceedings in Mathematics and Statistics, 2019, , 137-154.	0.2	0
211	Modeling the fractional non-linear SchrÃdinger equation via Liouville-Caputo fractional derivative. Optik, 2018, 162, 1-7.	2.9	24
212	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
213	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
214	First integral method for non-linear differential equations with conformable derivative. Mathematical Modelling of Natural Phenomena, 2018, 13, 14.	2.3	72
215	Analysis of projectile motion: A comparative study using fractional operators with power law, exponential decay and Mittag-Leffler kernel. European Physical Journal Plus, 2018, 133, 1.	2.6	12
216	Numerical and analytical solutions of nonlinear differential equations involving fractional operators with power and Mittag-Leffler kernel. Mathematical Modelling of Natural Phenomena, 2018, 13, 13.	2.3	18

#	ARTICLE	IF	CITATIONS
217	Robust control for fractional variable-order chaotic systems with non-singular kernel. European Physical Journal Plus, 2018, 133, 1.	2.6	34
218	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
219	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.	3.0	81
220	Novel analytical solutions of the fractional Drude model. Optik, 2018, 168, 728-740.	2.9	28
221	Decolonisation of fractional calculus rules: Breaking commutativity and associativity to capture more natural phenomena. European Physical Journal Plus, 2018, 133, 1.	2.6	315
222	Synchronized bioluminescence behavior of a set of fireflies involving fractional operators of Liouville-Caputo type. International Journal of Biomathematics, 2018, 11, 1850041.	2.9	13
223	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.	5.1	21
224	Implementation of a fault tolerant system for the internal combustion engine's MAF sensor. Measurement: Journal of the International Measurement Confederation, 2018, 122, 91-99.	5.1	21
225	Fractional conformable derivatives of Liouville-Caputo type with low-fractionality. Physica A: Statistical Mechanics and Its Applications, 2018, 503, 424-438.	2.6	45
226	A numerical solution for a variable-order reaction-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
227	Chaos in a nonlinear Bloch system with Atangana-Baleanu fractional derivatives. Numerical Methods for Partial Differential Equations, 2018, 34, 1716-1738.	3.7	20
228	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
229	Analytical and numerical solutions of the telegraph equation using the Atangana-Caputo fractional order derivative. Journal of Electromagnetic Waves and Applications, 2018, 32, 695-712.	1.6	9
230	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
231	Fractional observer to estimate periodical forces. ISA Transactions, 2018, 82, 30-41.	6.1	6
232	Numerical approximation of Riemann-Liouville definition of fractional derivative: From Riemann-Liouville to Atangana-Baleanu. Numerical Methods for Partial Differential Equations, 2018, 34, 1502-1523.	3.7	236
233	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
234	A Simple Spectral Observer. Mathematical and Computational Applications, 2018, 23, 23.	1.3	4

#	ARTICLE	IF	CITATIONS
235	Exploring the Cross-Correlation as a Means for Detecting Digital Watermarks and Its Reformulation Into the Fractional Calculus Framework. IEEE Access, 2018, 6, 71699-71718.	4.3	12
236	Homogeneity-PMU-Based Method for Detection and Classification of Power Quality Disturbances. Electronics (Switzerland), 2018, 7, 433.	3.1	7
237	Local M-derivative of order $\alpha \in \mathbb{R}^+$ 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
238	Modeling the dynamics of nutrient-phytoplankton-zooplankton system with variable-order fractional derivatives. Chaos, Solitons and Fractals, 2018, 116, 114-120.	5.2	85
239	Fractional operator without singular kernel: Applications to linear electrical circuits. International Journal of Circuit Theory and Applications, 2018, 46, 2394-2419.	2.0	30
240	A mathematical analysis of a circular pipe in rate type fluid via Hankel transform. European Physical Journal Plus, 2018, 133, 1.	2.6	41
241	Stability analysis and optimal control of a fractional human African trypanosomiasis model. Chaos, Solitons and Fractals, 2018, 117, 150-160.	5.2	32
242	Numerical simulations of multilingual competition dynamics with nonlocal derivative. Chaos, Solitons and Fractals, 2018, 117, 175-182.	5.2	20
243	FPGA implementation and control of chaotic systems involving the variable-order fractional operator with Mittag-Leffler law. Chaos, Solitons and Fractals, 2018, 115, 177-189.	5.2	43
244	On the solutions of fractional-time wave equation with memory effect involving operators with regular kernel. Chaos, Solitons and Fractals, 2018, 115, 283-299.	5.2	45
245	Fractional derivatives with no-index law property: Application to chaos and statistics. Chaos, Solitons and Fractals, 2018, 114, 516-535.	5.2	296
246	A new approach to exact optical soliton solutions for the nonlinear Schrödinger equation. European Physical Journal Plus, 2018, 133, 1.	2.6	14
247	Analytical solutions of the Keller-Segel chemotaxis model involving fractional operators without singular kernel. European Physical Journal Plus, 2018, 133, 1.	2.6	32
248	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
249	Fractional conformable attractors with low fractality. Mathematical Methods in the Applied Sciences, 2018, 41, 6378-6400.	2.2	7
250	Fractional Derivatives with the Power-Law and the Mittag-Leffler Kernel Applied to the Nonlinear Baggs-Freedman Model. Fractal and Fractional, 2018, 2, 10.	3.4	26
251	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.	5.2	93
252	Chaotic Attractors with Fractional Conformable Derivatives in the Liouville-Caputo Sense and Its Dynamical Behaviors. Entropy, 2018, 20, 384.	2.2	40

#	ARTICLE	IF	CITATIONS
253	Experimental Study on the Performance of Controllers for the Hydrogen Gas Production Demanded by an Internal Combustion Engine. <i>Energies</i> , 2018, 11, 2157.	3.1	21
254	Analysis of reaction-diffusion system via a new fractional derivative with non-singular kernel. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 509, 703-716.	2.6	109
255	Fault tolerant system based on non-integers order observers: Application in a heat exchanger. <i>ISA Transactions</i> , 2018, 80, 286-296.	6.1	15
256	Mathematical modeling of the smoking dynamics using fractional differential equations with local and nonlocal kernel. <i>Journal of Nonlinear Science and Applications</i> , 2018, 11, 994-1014.	1.0	22
257	Coupled reaction-diffusion waves in a chemical system via fractional derivatives in Liouville-Caputo sense. <i>Revista Mexicana De FÃsica</i> , 2018, 64, 539-547.	0.4	20
258	Optical soliton solutions of the Ginzburg-Landau equation with conformable derivative and Kerr law nonlinearity. <i>Revista Mexicana De FÃsica</i> , 2018, 65, 73-81.	0.4	18
259	Analytical solution of the time fractional diffusion equation and fractional convection-diffusion equation. <i>Revista Mexicana De FÃsica</i> , 2018, 65, 82-88.	0.4	18
260	Magnetic Stimulation on Human Blood Electromotive force analysis. <i>Revista De Chimie (discontinued)</i> , 2018, 69, 3037-3041.	0.4	0
261	New insight in fractional differentiation: power, exponential decay and Mittag-Leffler laws and applications. <i>European Physical Journal Plus</i> , 2017, 132, 1.	2.6	113
262	On the solutions of fractional order of evolution equations. <i>European Physical Journal Plus</i> , 2017, 132, 1.	2.6	49
263	Fractional Hunter-Saxton equation involving partial operators with bi-order in Riemann-Liouville and Liouville-Caputo sense. <i>European Physical Journal Plus</i> , 2017, 132, 1.	2.6	29
264	A new derivative with normal distribution kernel: Theory, methods and applications. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 476, 1-14.	2.6	112
265	Homotopy perturbation transform method for nonlinear differential equations involving to fractional operator with exponential kernel. <i>Advances in Difference Equations</i> , 2017, 2017, .	3.5	77
266	A survey on modeling, biofuels, control and supervision systems applied in internal combustion engines. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 73, 1070-1085.	16.6	53
267	SchrÃdinger equation involving fractional operators with non-singular kernel. <i>Journal of Electromagnetic Waves and Applications</i> , 2017, 31, 752-761.	1.6	36
268	Parameter identification of periodical signals: Application to measurement and analysis of ocean wave forces. , 2017, 69, 59-69.		8
269	Electrical circuits RC, LC, and RL described by Atangana-Baleanu fractional derivatives. <i>International Journal of Circuit Theory and Applications</i> , 2017, 45, 1514-1533.	2.0	127
270	Hyperchaotic behaviour obtained via a nonlocal operator with exponential decay and Mittag-Leffler laws. <i>Chaos, Solitons and Fractals</i> , 2017, 102, 285-294.	5.2	79



#	ARTICLE	IF	CITATIONS
271	Irvingâ€™Mullineux oscillator via fractional derivatives with Mittag-Leffler kernel. Chaos, Solitons and Fractals, 2017, 95, 179-186.	5.2	65
272	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
273	Hybrid PEMFC-supercapacitor system: Modeling and energy management in energetic macroscopic representation. Applied Energy, 2017, 205, 1478-1494.	10.2	44
274	New bilingualism model based on fractional operators with Mittag-Leffler kernel. Journal of Mathematical Sociology, 2017, 41, 172-184.	1.1	9
275	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.	7.2	26
276	Analytical solutions for the motion of a charged particle in electric and magnetic fields via non-singular fractional derivatives. European Physical Journal Plus, 2017, 132, 1.	2.6	10
277	Electrical circuits RC and RL involving fractional operators with bi-order. Advances in Mechanical Engineering, 2017, 9, 168781401770713.	1.6	16
278	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.	5.2	84
279	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
280	Design of a state observer to approximate signals by using the concept of fractional variable-order derivative. , 2017, 69, 127-139.		23
281	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
282	Actuator Fault Tolerant Control Based on a MIMO-MPC: Application in a Double-Pipe Heat Exchanger. Chemical Engineering Communications, 2017, 204, 86-96.	2.6	11
283	Application of fractional derivative with exponential law to bi-fractional-order wave equation with frictional memory kernel. European Physical Journal Plus, 2017, 132, 1.	2.6	8
284	Control Scheme Formulation for the Production of Hydrogen on Demand to Feed an Internal Combustion Engine. Sustainability, 2017, 9, 7.	3.3	16
285	Control of the Air Supply Subsystem in a PEMFC with Balance of Plant Simulation. Sustainability, 2017, 9, 73.	3.3	31
286	Chaos in a Cancer Model via Fractional Derivatives with Exponential Decay and Mittag-Leffler Law. Entropy, 2017, 19, 681.	2.2	70
287	Batemanâ€™Feshbach Tikochinsky and Caldirolaâ€™Kanai Oscillators with New Fractional Differentiation. Entropy, 2017, 19, 55.	2.2	49
288	Numerical solutions of Fourier's law involving fractional derivatives with bi-order. Scientia Iranica, 2017, .	0.5	0

#	ARTICLE	IF	CITATIONS
289	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
290	Analytical Solutions of the Electrical RLC Circuit via Liouvilleâ€™Caputo Operators with Local and Non-Local Kernels. Entropy, 2016, 18, 402.	2.2	91
291	On the Possibility of the Jerk Derivative in Electrical Circuits. Advances in Mathematical Physics, 2016, 2016, 1-8.	0.8	6
292	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
293	Nonlocal Transport Processes and the Fractional Cattaneo-Vernotte Equation. Mathematical Problems in Engineering, 2016, 2016, 1-15.	1.1	8
294	Equivalent Circuits Applied in Electrochemical Impedance Spectroscopy and Fractional Derivatives with and without Singular Kernel. Advances in Mathematical Physics, 2016, 2016, 1-15.	0.8	18
295	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
296	Analytical solutions for the fractional diffusion-advection equation describing super-diffusion. Open Physics, 2016, 14, 668-675.	1.7	6
297	Master-Slave Synchronization of Robot Manipulators Driven by Induction Motors. IEEE Latin America Transactions, 2016, 14, 3986-3991.	1.6	30
298	Atangana-Baleanu fractional derivative applied to electromagnetic waves in dielectric media. Journal of Electromagnetic Waves and Applications, 2016, 30, 1937-1952.	1.6	65
299	Fractional LiÃ©nard type model of a pipeline within the fractional derivative without singular kernel. Advances in Difference Equations, 2016, 2016, .	3.5	76
300	Sensor fault detection and isolation system for a condensation process. ISA Transactions, 2016, 65, 456-467.	6.1	10
301	Sensors and actuator fault tolerant control applied in a double pipe heat exchanger. Measurement: Journal of the International Measurement Confederation, 2016, 93, 215-223.	5.1	4
302	Electromagnetic waves in conducting media described by a fractional derivative with non-singular kernel. Journal of Electromagnetic Waves and Applications, 2016, 30, 1493-1503.	1.6	10
303	Formulation of Euler-Lagrange and Hamilton equations involving fractional operators with regular kernel. Advances in Difference Equations, 2016, 2016, .	3.5	16
304	Analytical and numerical solutions of electrical circuits described by fractional derivatives. Applied Mathematical Modelling, 2016, 40, 9079-9094.	4.3	100
305	A New Methodology for Tracking and Instantaneous Characterization of Voltage Variations. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1596-1604.	4.6	18
306	Experimental evaluation of viscous damping coefficient in the fractional underdamped oscillator. Advances in Mechanical Engineering, 2016, 8, 168781401664306.	1.6	25

#	ARTICLE	IF	CITATIONS
307	Triple pendulum model involving fractional derivatives with different kernels. Chaos, Solitons and Fractals, 2016, 91, 248-261.	5.2	60
308	Fractional dynamics of charged particles in magnetic fields. International Journal of Modern Physics C, 2016, 27, 1650084.	1.6	24
309	Modeling diffusive transport with a fractional derivative without singular kernel. Physica A: Statistical Mechanics and Its Applications, 2016, 447, 467-481.	2.6	93
310	Fractional electromagnetic waves in conducting media. Journal of Electromagnetic Waves and Applications, 2016, 30, 259-271.	1.6	5
311	Numerical simulation of metallic nanostructures interacting with electromagnetic fields using the Lorentzâ€“Drude model and FDTD method. International Journal of Modern Physics C, 2016, 27, 1650043.	1.6	9
312	Nonlocal electrical diffusion equation. International Journal of Modern Physics C, 2016, 27, 1650007.	1.6	12
313	Modeling and simulation of the fractional space-time diffusion equation. Communications in Nonlinear Science and Numerical Simulation, 2016, 30, 115-127.	3.3	82
314	DISEÃ“O DE UN SISTEMA DE CONTROL PASIVO TOLERANTE A FALLOS EN SENSORES PARA UNA PILA DE COMBUSTIBLE MODELADA CON UN MODELO LINEAL POR TRAMOS. Dyna (Spain), 2016, 91, 223-232.	0.2	2
315	Modeling of a Mass-Spring-Damper System by Fractional Derivatives with and without a Singular Kernel. Entropy, 2015, 17, 6289-6303.	2.2	116
316	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
317	Experimental validation of an actuator fault tolerant control system using virtual sensor: Application in a double pipe heat exchanger. Chemical Engineering Research and Design, 2015, 104, 400-408.	5.6	17
318	Description of the Dynamics of Charged Particles in Electric Fields: An Approach Using Fractional Calculus. Springer Series in Optical Sciences, 2015, , 147-158.	0.2	2
319	Fractional Space Waves in Conductors. Progress in Fractional Differentiation and Applications, 2015, 1, 259-267.	0.6	5
320	Space-Time Fractional Diffusion-Advection Equation with Caputo Derivative. Abstract and Applied Analysis, 2014, 2014, 1-8.	0.7	15
321	Fractional Transmission Line with Losses. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2014, 69, 539-546.	1.4	76
322	Two dimensional fractional projectile motion in a resisting medium. Open Physics, 2014, 12, .	1.7	13
323	Fractional thermal diffusion and the heat equation. Open Physics, 2014, 13, .	1.7	5
324	RLC electrical circuit of non-integer order. Open Physics, 2013, 11, 1361-1365.	1.7	36

#	ARTICLE	IF	CITATIONS
325	Analysis on the time and frequency domain for the RC electric circuit of fractional order. Open Physics, 2013, 11, 1366-1371.	1.7	19
326	Dynamics of a charged particle in a ramp magnetic field. , 2013, , .		0
327	Generalized â€œexpansion method for some soliton wave solutions of Burgersâ€™like and potential KdV equations. Numerical Methods for Partial Differential Equations, 0, , .	3.7	1
328	Role of Fourier sine transform on the dynamical model of tensioned carbon nanotubes with fractional operator. Mathematical Methods in the Applied Sciences, 0, , .	2.2	20
329	Analysis of PDâ€™type iterative learning control for discreteâ€™time singular system. Mathematical Methods in the Applied Sciences, 0, , .	2.2	8