

Lobna A Said

List of Publications by Year in descending order

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103
papers

2,276
citations

201385

27
h-index

253896

43
g-index

103
all docs

103
docs citations

103
times ranked

990
citing authors

#	ARTICLE	IF	CITATIONS
1	FPGA implementation of two fractional order chaotic systems. AEU - International Journal of Electronics and Communications, 2017, 78, 162-172.	1.7	155
2	Generalized double-humped logistic map-based medical image encryption. Journal of Advanced Research, 2018, 10, 85-98.	4.4	93
3	On The Optimization of Fractional Order Low-Pass Filters. Circuits, Systems, and Signal Processing, 2016, 35, 2017-2039.	1.2	86
4	A novel image encryption system merging fractional-order edge detection and generalized chaotic maps. Signal Processing, 2020, 167, 107280.	2.1	85
5	Biological inspired optimization algorithms for cole-impedance parameters identification. AEU - International Journal of Electronics and Communications, 2017, 78, 79-89.	1.7	80
6	Experimental comparison of integer/fractional-order electrical models of plant. AEU - International Journal of Electronics and Communications, 2017, 80, 1-9.	1.7	80
7	Fractional order oscillators based on operational transresistance amplifiers. AEU - International Journal of Electronics and Communications, 2015, 69, 988-1003.	1.7	78
8	Generalized fractional logistic map encryption system based on FPGA. AEU - International Journal of Electronics and Communications, 2017, 80, 114-126.	1.7	76
9	Three Fractional-Order-Capacitors-Based Oscillators with Controllable Phase and Frequency. Journal of Circuits, Systems and Computers, 2017, 26, 1750160.	1.0	65
10	Review of activated carbon adsorbent material for textile dyes removal: Preparation, and modelling. Current Research in Green and Sustainable Chemistry, 2022, 5, 100325.	2.9	54
11	Optimized Edge Detection Technique for Brain Tumor Detection in MR Images. IEEE Access, 2020, 8, 136243-136259.	2.6	53
12	Chaotic Flower Pollination and Grey Wolf Algorithms for parameter extraction of bio-impedance models. Applied Soft Computing Journal, 2019, 75, 750-774.	4.1	52
13	FPGA Implementation of the Fractional Order Integrator/Differentiator: Two Approaches and Applications. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 1484-1495.	3.5	50
14	Two-port two impedances fractional order oscillators. Microelectronics Journal, 2016, 55, 40-52.	1.1	49
15	Synchronization and FPGA realization of fractional-order Izhikevich neuron model. Microelectronics Journal, 2019, 89, 56-69.	1.1	48
16	Parameter identification of fractional-order chaotic systems using different Meta-heuristic Optimization Algorithms. Nonlinear Dynamics, 2019, 95, 2491-2542.	2.7	46
17	All Possible Topologies of the Fractional-Order Wien Oscillator Family Using Different Approximation Techniques. Circuits, Systems, and Signal Processing, 2019, 38, 3931-3951.	1.2	45
18	Fractional Order Oscillator Design Based on Two-Port Network. Circuits, Systems, and Signal Processing, 2016, 35, 3086-3112.	1.2	44

#	ARTICLE	IF	CITATIONS
19	Fractional X-shape controllable multi-scroll attractor with parameter effect and FPGA automatic design tool software. <i>Chaos, Solitons and Fractals</i> , 2019, 126, 292-307.	2.5	43
20	Fractional order integrator/differentiator: FPGA implementation and FOPID controller application. <i>AEU - International Journal of Electronics and Communications</i> , 2019, 98, 220-229.	1.7	43
21	Effect of Different Approximation Techniques on Fractional-Order KHN Filter Design. <i>Circuits, Systems, and Signal Processing</i> , 2018, 37, 5222-5252.	1.2	39
22	Cancellable face recognition based on fractional-order Lorenz chaotic system and Haar wavelet fusion. , 2021, 116, 103103.		39
23	Enhanced hardware implementation of a mixed-order nonlinear chaotic system and speech encryption application. <i>AEU - International Journal of Electronics and Communications</i> , 2020, 125, 153347.	1.7	38
24	FPGA implementation of sound encryption system based on fractional-order chaotic systems. <i>Microelectronics Journal</i> , 2019, 90, 323-335.	1.1	37
25	Generalized two-port network based fractional order filters. <i>AEU - International Journal of Electronics and Communications</i> , 2019, 104, 128-146.	1.7	36
26	Fractional controllable multi-scroll V-shape attractor with parameters effect. , 2017, , .		34
27	Ternary Functions Design Using Memristive Threshold Logic. <i>IEEE Access</i> , 2019, 7, 48371-48381.	2.6	34
28	On the Approximations of CFOA-Based Fractional-Order Inverse Filters. <i>Circuits, Systems, and Signal Processing</i> , 2020, 39, 2-29.	1.2	28
29	Extracting Optimized Bio-Impedance Model Parameters Using Different Topologies of Oscillators. <i>IEEE Sensors Journal</i> , 2020, 20, 9947-9954.	2.4	27
30	Comparison between three approximation methods on oscillator circuits. <i>Microelectronics Journal</i> , 2018, 81, 162-178.	1.1	26
31	Active realization of doubly terminated LC ladder filters using current feedback operational amplifier (CFOA) via linear transformation. <i>AEU - International Journal of Electronics and Communications</i> , 2011, 65, 753-762.	1.7	25
32	Numerical Simulations and FPGA Implementations of Fractional-Order Systems Based on Product Integration Rules. <i>IEEE Access</i> , 2020, 8, 102093-102105.	2.6	24
33	A generalized family of memristor-based voltage controlled relaxation oscillator. <i>International Journal of Circuit Theory and Applications</i> , 2018, 46, 1311-1327.	1.3	23
34	Fractional-Order Bio-Impedance Modeling for Interdisciplinary Applications: A Review. <i>IEEE Access</i> , 2021, 9, 33158-33168.	2.6	23
35	Reconfigurable FPGA Realization of Fractional-Order Chaotic Systems. <i>IEEE Access</i> , 2021, 9, 89376-89389.	2.6	23
36	Optimal fractional-order PI with DC-DC converter and PV system. <i>Ain Shams Engineering Journal</i> , 2021, 12, 1895-1906.	3.5	22

#	ARTICLE	IF	CITATIONS
37	General fractional order mem-elements mutators. <i>Microelectronics Journal</i> , 2019, 90, 211-221.	1.1	21
38	A general emulator for fractional-order memristive elements with multiple pinched points and application. <i>AEU - International Journal of Electronics and Communications</i> , 2020, 124, 153338.	1.7	21
39	A study of the nonlinear dynamics of human behavior and its digital hardware implementation. <i>Journal of Advanced Research</i> , 2020, 25, 111-123.	4.4	21
40	Biomedical image encryption based on double-humped and fractional logistic maps. , 2017, , .		20
41	Emulation circuits of fractional-order memelements with multiple pinched points and their applications. <i>Chaos, Solitons and Fractals</i> , 2020, 138, 109882.	2.5	20
42	FPGA realization of Caputo and Gr $\frac{1}{4}$ nwald-Letnikov operators. , 2017, , .		19
43	FPGA Implementation of Reconfigurable CORDIC Algorithm and a Memristive Chaotic System With Transcendental Nonlinearities. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2022, 69, 2885-2892.	3.5	18
44	Generalized family of fractional-order oscillators based on single CFOA and RC network. , 2017, , .		16
45	Fractional-order oscillator based on single CCII. , 2016, , .		15
46	Implementation and analysis of tunable fractional-order band-pass filter of order $2\hat{1}\pm$. <i>AEU - International Journal of Electronics and Communications</i> , 2020, 124, 153343.	1.7	15
47	Fractional-order inverting and non-inverting filters based on CFOA. , 2016, , .		14
48	Identifying the Parameters of Cole Impedance Model Using Magnitude Only and Complex Impedance Measurements: A Metaheuristic Optimization Approach. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 6541-6558.	1.7	13
49	Generalized fractional logistic map suitable for data encryption. , 2015, , .		11
50	Biologically Inspired Optimization Algorithms for Fractional-Order Bioimpedance Models Parameters Extraction. , 2018, , 125-162.		11
51	Stability analysis of fractional-order Colpitts oscillators. <i>Analog Integrated Circuits and Signal Processing</i> , 2019, 101, 267-279.	0.9	11
52	Design and Implementation of an Optimized Artificial Human Eardrum Model. <i>Circuits, Systems, and Signal Processing</i> , 2020, 39, 3219-3233.	1.2	10
53	Hardware realization of a secure and enhanced s-box based speech encryption engine. <i>Analog Integrated Circuits and Signal Processing</i> , 2021, 106, 385-397.	0.9	10
54	Fractional-Order Edge Detection Masks for Diabetic Retinopathy Diagnosis as a Case Study. <i>Computers</i> , 2021, 10, 30.	2.1	10

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55	Arithmetic optimization approach for parameters identification of different PV diode models with FOPI-MPPT. Ain Shams Engineering Journal, 2022, 13, 101612.	3.5	10
56	FPGA implementation of fractional-order integrator and differentiator based on GrÅ¼nwald Letnikov's definition. , 2017, , .		9
57	Plant stem tissue modeling and parameter identification using metaheuristic optimization algorithms. Scientific Reports, 2022, 12, 3992.	1.6	9
58	Survey on Two-Port Network-Based Fractional-Order Oscillators. , 2018, , 305-327.		8
59	N-digits Ternary Carry Lookahead Adder Design. , 2019, , .		7
60	Chaotic Dynamics and FPGA Implementation of a Fractional-Order Chaotic System With Time Delay. IEEE Open Journal of Circuits and Systems, 2020, 1, 255-262.	1.4	7
61	Two implementations of fractional-order relaxation oscillators. Analog Integrated Circuits and Signal Processing, 2021, 106, 421-432.	0.9	7
62	FPGA Realizations of Chaotic Epidemic and Disease Models Including Covid-19. IEEE Access, 2021, 9, 21085-21093.	2.6	7
63	Fractional order four-phase oscillator based on double integrator topology. , 2017, , .		6
64	On the Approximation of Fractional-Order Circuit Design. , 2018, , 239-270.		6
65	Toward Portable Bio-impedance devices. , 2019, , .		6
66	Analysis and FPGA of semi-fractal shapes based on complex Gaussian map. Chaos, Solitons and Fractals, 2021, 142, 110493.	2.5	6
67	Fractional-Order Filter Design. , 2018, , 357-382.		5
68	On the Fractional Order Generalized Discrete Maps. , 2018, , 375-408.		5
69	Multifunction Fractional Inverse Filter Based on OTRA. , 2019, , .		5
70	Design of FOPID Controller for a DC Motor Using Approximation Techniques. , 2019, , .		5
71	Tunable Fractional-Order Band-pass Filter of order $2\hat{\pm}$. , 2019, , .		5
72	CNTFET design of a multiple-port ternary register file. Microelectronics Journal, 2021, 113, 105076.	1.1	5

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73	Active emulation circuits of fractional-order memristive elements and its applications. AEU - International Journal of Electronics and Communications, 2021, 138, 153855.	1.7	5
74	CNTFET-Based Ternary Multiply-and-Accumulate Unit. Electronics (Switzerland), 2022, 11, 1455.	1.8	5
75	Image encryption based on double-humped and delayed logistic maps for biomedical applications. , 2017, , .		4
76	Fractional-Order Relaxation Oscillators Based on Op-Amp and OTRA. , 2018, , .		4
77	FPGA Speech Encryption Realization Based on Variable S-Box and Memristor Chaotic Circuit. , 2018, , .		4
78	Using Meta-heuristic Optimization to Extract Bio-impedance Parameters from an Oscillator Circuit. , 2019, , .		4
79	A Universal Fractional-Order Memelement Emulation Circuit. , 2019, , .		4
80	Fractional-Order Oscillators Based on Double Op-Amp. , 2019, , .		4
81	A Modified Differentiator Circuit for Extracting Cole-Impedance Model Parameters Using Meta-heuristic Optimization Algorithms. Arabian Journal for Science and Engineering, 2021, 46, 9945-9951.	1.7	4
82	Numerical Sensitivity Analysis and Hardware Verification of a Transiently-Chaotic Attractor. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2022, 32, .	0.7	4
83	A Unified FPGA Realization for Fractional-Order Integrator and Differentiator. Electronics (Switzerland), 2022, 11, 2052.	1.8	4
84	FPGA Implementation of Fractional-Order Chaotic Systems. , 2018, , 33-62.		3
85	Analysis and Design of Fractional-order Low-pass Filter with Three Elements of Independent Orders. , 2019, , .		3
86	FPGA Implementation of Integer/Fractional Chaotic Systems. Studies in Computational Intelligence, 2020, , 199-229.	0.7	3
87	Double Fractional-order Masks Image Enhancement. , 2021, , .		3
88	A Comparative Study of Different Chaotic Systems in Path Planning for Surveillance Applications. , 2021, , .		3
89	CNTFET-based ternary address decoder design. International Journal of Circuit Theory and Applications, 2022, 50, 3682-3691.	1.3	3
90	A Digital Hardware Implementation for A new Mixed-Order Nonlinear 3-D Chaotic System. , 2019, , .		2

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91	A Comparative Study of Different Human Skin Impedance Models. , 2021, , .		2
92	FPGA Implementation of Delayed Fractional-Order Financial Chaotic System. , 2020, , .		2
93	FPGA REALIZATION OF COMPLEX LOGISTIC MAP FRACTAL BEHAVIOR. Fractals, 2022, 30, .	1.8	2
94	FPGA realization of fractals based on a new generalized complex logistic map. Chaos, Solitons and Fractals, 2022, 160, 112215.	2.5	2
95	Heating and Freezing Injury to Plant Tissues and Their Effect on Bioimpedance: Experimental Study. , 2019, , .		1
96	A Universal Floating Fractional-Order Elements/Memelements Emulator. , 2019, , .		1
97	Do the Bio-impedance Models Exhibit Pinched Hysteresis?. , 2020, , .		1
98	Modeling woody plant tissue using different fractional-order circuits. , 2022, , 457-474.		1
99	A survey on memristor active emulation circuits in the fractional-order domain. , 2022, , 375-410.		1
100	Center pulse width modulation implementation based on memristor. AEU - International Journal of Electronics and Communications, 2019, 111, 152843.	1.7	0
101	CAD Tool for Two-Digit Ternary Functions Design. , 2019, , .		0
102	Fractional-order oscillators based on a single Op-Amp. , 2022, , 411-439.		0
103	MPPT for a Partially Shaded PV System Using Accelerated Particle Swarms. , 2021, , .		0