Lobna

List of Publications by Year
in descending order

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141 papers	2,439 citations	201385 27 h-index	253896 43 g-index
143 all docs	143 docs citations	143 times ranked	1013 citing authors

#	Article	IF	Citations
1	Arithmetic optimization approach for parameters identification of different PV diode models with FOPI-MPPT. Ain Shams Engineering Journal, 2022, 13, 101612.	3.5	10
2	FPGA REALIZATION OF COMPLEX LOGISTIC MAP FRACTAL BEHAVIOR. Fractals, 2022, 30, .	1.8	2
3	Observability of speed DC motor with self-tuning fuzzy-fractional-order controller. , 2022, , 157-179.		1
4	Modeling woody plant tissue using different fractional-order circuits. , 2022, , 457-474.		1
5	Fractional-order oscillators based on a single Op-Amp. , 2022, , 411-439.		0
6	A survey on memristor active emulation circuits in the fractional-order domain. , 2022, , 375-410.		1
7	Plant stem tissue modeling and parameter identification using metaheuristic optimization algorithms. Scientific Reports, 2022, 12, 3992.	1.6	9
8	FPGA Implementation of Reconfigurable CORDIC Algorithm and a Memristive Chaotic System With Transcendental Nonlinearities. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 2885-2892.	3.5	18
9	CNTFET-Based Ternary Multiply-and-Accumulate Unit. Electronics (Switzerland), 2022, 11, 1455.	1.8	5
10	FPGA realization of fractals based on a new generalized complex logistic map. Chaos, Solitons and Fractals, 2022, 160, 112215.	2.5	2
11	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
12	CNTFETâ€based ternary address decoder design. International Journal of Circuit Theory and Applications, 2022, 50, 3682-3691.	1.3	3
13	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
14	A Unified FPGA Realization for Fractional-Order Integrator and Differentiator. Electronics (Switzerland), 2022, 11, 2052.	1.8	4
15	Hardware realization of a secure and enhanced s-box based speech encryption engine. Analog Integrated Circuits and Signal Processing, 2021, 106, 385-397.	0.9	10
16	Two implementations of fractional-order relaxation oscillators. Analog Integrated Circuits and Signal Processing, 2021, 106, 421-432.	0.9	7
17	Analysis and FPGA of semi-fractal shapes based on complex Gaussian map. Chaos, Solitons and Fractals, 2021, 142, 110493.	2.5	6
18	Design and FPGA Verification of Custom-Shaped Chaotic Attractors Using Rotation, Offset Boosting and Amplitude Control. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 3466-3470.	2.2	15

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19	Fractional-Order Bio-Impedance Modeling for Interdisciplinary Applications: A Review. IEEE Access, 2021, 9, 33158-33168.	2.6	23
20	Fractional-Order Edge Detection Masks for Diabetic Retinopathy Diagnosis as a Case Study. Computers, 2021, 10, 30.	2.1	10
21	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
22	Optimal fractional-order PI with DC-DC converter and PV system. Ain Shams Engineering Journal, 2021, 12, 1895-1906.	3.5	22
23	A Comparative Study of Different Human Skin Impedance Models. , 2021, , .		2
24	CNTFET design of a multiple-port ternary register file. Microelectronics Journal, 2021, 113, 105076.	1.1	5
25	Active emulation circuits of fractional-order memristive elements and its applications. AEU - International Journal of Electronics and Communications, 2021, 138, 153855.	1.7	5
26	Cancellable face recognition based on fractional-order Lorenz chaotic system and Haar wavelet fusion. , 2021, 116, 103103.		39
27	FPGA Realizations of Chaotic Epidemic and Disease Models Including Covid-19. IEEE Access, 2021, 9, 21085-21093.	2.6	7
28	Memristive Bio-Impedance Modeling of Fruits and Vegetables. IEEE Access, 2021, 9, 21498-21506.	2.6	2
29	Reconfigurable FPGA Realization of Fractional-Order Chaotic Systems. IEEE Access, 2021, 9, 89376-89389.	2.6	23
30	A Scalable Firmware-Over-The-Air Architecture suitable for Industrial IoT Applications. , 2021, , .		3
31	Double Fractional-order Masks Image Enhancement. , 2021, , .		3
32	Design of IoT Microchip AVR Programmer for FOTA Updates based on Unified Programming and Debug Interface using Wi-Fi and LoRa. , 2021, , .		1
33	A Comparative Study of Different Chaotic Systems in Path Planning for Surveillance Applications. , 2021, , .		3
34	Vulnerable Road Users Detection and Tracking using YOLOv4 and Deep SORT. , 2021, , .		1
35	Over-The-Air Firmware Updating Model suitable for Industrial IoT based on Microchip AVR MCU. , 2021, , .		2
36	MPPT for a Partially Shaded PV System Using Accelerated Particle Swarms. , 2021, , .		0

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37	On the Approximations of CFOA-Based Fractional-Order Inverse Filters. Circuits, Systems, and Signal Processing, 2020, 39, 2-29.	1.2	28
38	A novel image encryption system merging fractional-order edge detection and generalized chaotic maps. Signal Processing, 2020, 167, 107280.	2.1	85
39	Design and Implementation of an Optimized Artificial Human Eardrum Model. Circuits, Systems, and Signal Processing, 2020, 39, 3219-3233.	1.2	10
40	A general emulator for fractional-order memristive elements with multiple pinched points and application. AEU - International Journal of Electronics and Communications, 2020, 124, 153338.	1.7	21
41	Optimized Edge Detection Technique for Brain Tumor Detection in MR Images. IEEE Access, 2020, 8, 136243-136259.	2.6	53
42	Enhanced hardware implementation of a mixed-order nonlinear chaotic system and speech encryption application. AEU - International Journal of Electronics and Communications, 2020, 125, 153347.	1.7	38
43	Implementation and analysis of tunable fractional-order band-pass filter of order 2Î±. AEU - International Journal of Electronics and Communications, 2020, 124, 153343.	1.7	15
44	Extracting Optimized Bio-Impedance Model Parameters Using Different Topologies of Oscillators. IEEE Sensors Journal, 2020, 20, 9947-9954.	2.4	27
45	Memristor-CNTFET based Ternary Full Adders. , 2020, , .		12
46	Do the Bio-impedance Models Exhibit Pinched Hysteresis?. , 2020, , .		1
47	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
48	Identifying the Parameters of Cole Impedance Model Using Magnitude Only and Complex Impedance Measurements: A Metaheuristic Optimization Approach. Arabian Journal for Science and Engineering, 2020, 45, 6541-6558.	1.7	13
49	Numerical Simulations and FPGA Implementations of Fractional-Order Systems Based on Product Integration Rules. IEEE Access, 2020, 8, 102093-102105.	2.6	24
50	Design and fabrication of CNT/graphene-based polymer nanocomposite applications in nanosensors. , 2020, , 281-294.		1
51	Emulation circuits of fractional-order memelements with multiple pinched points and their applications. Chaos, Solitons and Fractals, 2020, 138, 109882.	2.5	20
52	A study of the nonlinear dynamics of human behavior and its digital hardware implementation. Journal of Advanced Research, 2020, 25, 111-123.	4.4	21
53	FPGA Implementation of Delayed Fractional-Order Financial Chaotic System. , 2020, , .		2
54	Two-Port Network Analysis of Equal Fractional-order Wireless Power Transfer Circuit. , 2020, , .		3

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55	Comparative Study of CNTFET Implementations of 1-trit Multiplier. , 2020, , .		5
56	Fractional-Order Generalized Gene Regulation Model CCII-Based Practical Emulator. , 2020, , .		0
57	Generalized Î±+Î²-order Filter Based on Single CCII. , 2020, , .		1
58	Fractional-order Memristor Emulator with Multiple Pinched Points. , 2020, , .		4
59	On Series Connections of Fractional-Order Elements and Memristive Elements. , 2020, , .		0
60	FPGA Implementation of Integer/Fractional Chaotic Systems. Studies in Computational Intelligence, 2020, , 199-229.	0.7	3
61	Design of Fractional-Order Differentiator-Lowpass Filters for Extracting the R peaks in ECG Signals. , 2019, , .		2
62	Center pulse width modulation implementation based on memristor. AEU - International Journal of Electronics and Communications, 2019, 111, 152843.	1.7	0
63	Stability analysis of fractional-order Colpitts oscillators. Analog Integrated Circuits and Signal Processing, 2019, 101, 267-279.	0.9	11
64	Fractional X-shape controllable multi-scroll attractor with parameter effect and FPGA automatic design tool software. Chaos, Solitons and Fractals, 2019, 126, 292-307.	2.5	43
65	Frational Order Inverse Filters Based on CCII Family. , 2019, , .		1
66	Toward Portable Bio-impedance devices. , 2019, , .		6
67	Heating and Freezing Injury to Plant Tissues and Their Effect on Bioimpedance: Experimental Study. , 2019, , .		1
68	Cole Bio-Impedance Model Variations in $Daucus~Carota~Sativus$ Under Heating and Freezing Conditions. IEEE Access, 2019, 7, 113254-113263.	2.6	24
69	Ternary Functions Design Using Memristive Threshold Logic. IEEE Access, 2019, 7, 48371-48381.	2.6	34
70	General fractional order mem-elements mutators. Microelectronics Journal, 2019, 90, 211-221.	1.1	21
71	Synchronization and FPGA realization of fractional-order Izhikevich neuron model. Microelectronics Journal, 2019, 89, 56-69.	1.1	48
72	FPGA implementation of sound encryption system based on fractional-order chaotic systems. Microelectronics Journal, 2019, 90, 323-335.	1.1	37

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73	Generalized two-port network based fractional order filters. AEU - International Journal of Electronics and Communications, 2019, 104, 128-146.	1.7	36
74	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
75	N-digits Ternary Carry Lookahead Adder Design. , 2019, , .		7
76	Generic Hardware of Fractional Order Multi-Scrolls Chaotic Generator Based on FPGA. , 2019, , .		2
77	Power Tracking Controller Design For Photo-voltaic Systems Based On Particle Swarm Optimization Technique. , 2019, , .		2
78	Multifunction Fractional Inverse Filter Based on OTRA. , 2019, , .		5
79	Using Meta-heuristic Optimization to Extract Bio-impedance Parameters from an Oscillator Circuit. , 2019, , .		4
80	A Universal Fractional-Order Memelement Emulation Circuit. , 2019, , .		4
81	Analysis and Design of Fractional-order Low-pass Filter with Three Elements of Independent Orders. , 2019, , .		3
82	CAD Tool for Two-Digit Ternary Functions Design. , 2019, , .		0
83	A Universal Floating Fractional-Order Elements/Memelements Emulator. , 2019, , .		1
84	Banana Ripening and Corresponding Variations in Bio-Impedance and Glucose Levels. , 2019, , .		4
85	Fractional-order Nonminimum-phase Filter Design. , 2019, , .		1
86	A Simple BJT Inverse Memristor Emulator and Its Application in Chaotic Oscillators. , 2019, , .		6
87	Design of FOPID Controller for a DC Motor Using Approximation Techniques. , 2019, , .		5
88	A Digital Hardware Implementation for A new Mixed-Order Nonlinear 3-D Chaotic System. , 2019, , .		2
89	Tunable Fractional-Order Band-pass Filter of order 2Î±. , 2019, , .		5
90	Fractional-Order Oscillators Based on Double Op-Amp. , 2019, , .		4

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91	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
92	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
93	Parameter identification of fractional-order chaotic systems using different Meta-heuristic Optimization Algorithms. Nonlinear Dynamics, 2019, 95, 2491-2542.	2.7	46
94	Fractional order integrator/differentiator: FPGA implementation and FOPID controller application. AEU - International Journal of Electronics and Communications, 2019, 98, 220-229.	1.7	43
95	Generalized double-humped logistic map-based medical image encryption. Journal of Advanced Research, 2018, 10, 85-98.	4.4	93
96	Fractional-Order Relaxation Oscillators Based on Op-Amp and OTRA. , 2018, , .		4
97	Memristor-CNTFET based Ternary Comparator unit. , 2018, , .		6
98	FPGA Speech Encryption Realization Based on Variable S-Box and Memristor Chaotic Circuit. , 2018, , .		4
99	Incremental Grounded Voltage Controlled Memristor Emulator. , 2018, , .		8
100	FPGA Implementation of Fractional-Order Chaotic Systems. , 2018, , 33-62.		3
101	Biologically Inspired Optimization Algorithms for Fractional-Order Bioimpedance Models Parameters Extraction. , 2018, , 125-162.		11
102	On the Approximation of Fractional-Order Circuit Design. , 2018, , 239-270.		6
103	Survey on Two-Port Network-Based Fractional-Order Oscillators. , 2018, , 305-327.		8
104	Fractional-Order Filter Design. , 2018, , 357-382.		5
105	Comparison between three approximation methods on oscillator circuits. Microelectronics Journal, 2018, 81, 162-178.	1.1	26
106	Effect of Different Approximation Techniques on Fractional-Order KHN Filter Design. Circuits, Systems, and Signal Processing, 2018, 37, 5222-5252.	1.2	39
107	FPGA Implementation of X- and Heart-shapes Controllable Multi-Scroll Attractors. , 2018, , .		9
108	Two topologies of fractional-order oscillators based on CFOA and RC networks. , 2018, , .		2

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109	FPGA implementation of fractional-order Chua's chaotic system. , 2018, , .		7
110	Mathematical analysis of gene regulation activator model. , 2018, , .		1
111	A generalized family of memristorâ€based voltage controlled relaxation oscillator. International Journal of Circuit Theory and Applications, 2018, 46, 1311-1327.	1.3	23
112	On the Fractional Order Generalized Discrete Maps. , 2018, , 375-408.		5
113	Biological inspired optimization algorithms for cole-impedance parameters identification. AEU - International Journal of Electronics and Communications, 2017, 78, 79-89.	1.7	80
114	FPGA implementation of two fractional order chaotic systems. AEU - International Journal of Electronics and Communications, 2017, 78, 162-172.	1.7	155
115	Experimental comparison of integer/fractional-order electrical models of plant. AEU - International Journal of Electronics and Communications, 2017, 80, 1-9.	1.7	80
116	Generalized family of fractional-order oscillators based on single CFOA and RC network. , 2017, , .		16
117	Biomedical image encryption based on double-humped and fractional logistic maps. , 2017, , .		20
118	FPGA realization of Caputo and GrÃ¼nwald-Letnikov operators. , 2017, , .		19
119	Fractional controllable multi-scroll V-shape attractor with parameters effect. , 2017, , .		34
120	Fractional order four-phase oscillator based on double integrator topology. , 2017, , .		6
121	Three Fractional-Order-Capacitors-Based Oscillators with Controllable Phase and Frequency. Journal of Circuits, Systems and Computers, 2017, 26, 1750160.	1.0	65
122	Generalized fractional logistic map encryption system based on FPGA. AEU - International Journal of Electronics and Communications, 2017, 80, 114-126.	1.7	76
123	FPGA implementation of fractional-order integrator and differentiator based on GrÃ¼nwald Letnikov's definition. , 2017, , .		9
124	Two-port two impedances fractional order oscillators. Microelectronics Journal, 2016, 55, 40-52.	1.1	49
125	Fractional-order inverting and non-inverting filters based on CFOA. , 2016, , .		14
126	Fractional-order oscillator based on single CCII. , 2016, , .		15

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127	On The Optimization of Fractional Order Low-Pass Filters. Circuits, Systems, and Signal Processing, 2016, 35, 2017-2039.	1.2	86
128	Fractional Order Oscillator Design Based on Two-Port Network. Circuits, Systems, and Signal Processing, 2016, 35, 3086-3112.	1.2	44
129	Generalized delayed logistic map suitable for pseudo-random number generation. , 2015, , .		5
130	Fractional order oscillators with single non-zero transmission matrix element. , 2015, , .		5
131	Generalized fractional logistic map suitable for data encryption. , 2015, , .		11
132	Fractional order oscillators based on operational transresistance amplifiers. AEU - International Journal of Electronics and Communications, 2015, 69, 988-1003.	1.7	78
133	Current feedback operational amplifier (CFOA) based fractional order oscillators. , 2014, , .		6
134	Fractional order two port network oscillator with equal order. , 2014, , .		4
135	Two-port oscillators based on three impedance structure. , 2014, , .		0
136	Current feedback operational amplifier(CFOA) based programmable lossless floating inductor realization. , 2014, , .		3
137	Fractional order oscillator with independent control of phase and frequency. , 2014, , .		12
138	Digitally programmable lossless floating inductor realization using current differential amplifier (CDA). , 2012, , .		0
139	Two port network analysis for three impedance based oscillators. , 2011, , .		2
140	Active realization of doubly terminated LC ladder filters using current feedback operational amplifier (CFOA) via linear transformation. AEU - International Journal of Electronics and Communications, 2011, 65, 753-762.	1.7	25
141	CMOS digitally programmable lossless floating inductor. , 2010, , .		4