

# 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	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	Modeling woody plant tissue using different fractional-order circuits. , 2022, , 457-474.		1
4	Fractional-order oscillators based on a single Op-Amp. , 2022, , 411-439.		0
5	A survey on memristor active emulation circuits in the fractional-order domain. , 2022, , 375-410.		1
6	Plant stem tissue modeling and parameter identification using metaheuristic optimization algorithms. Scientific Reports, 2022, 12, 3992.	1.6	9
7	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
8	CNTFET-Based Ternary Multiply-and-Accumulate Unit. Electronics (Switzerland), 2022, 11, 1455.	1.8	5
9	FPGA realization of fractals based on a new generalized complex logistic map. Chaos, Solitons and Fractals, 2022, 160, 112215.	2.5	2
10	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
11	CNTFET-based ternary address decoder design. International Journal of Circuit Theory and Applications, 2022, 50, 3682-3691.	1.3	3
12	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
13	A Unified FPGA Realization for Fractional-Order Integrator and Differentiator. Electronics (Switzerland), 2022, 11, 2052.	1.8	4
14	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
15	Two implementations of fractional-order relaxation oscillators. Analog Integrated Circuits and Signal Processing, 2021, 106, 421-432.	0.9	7
16	Analysis and FPGA of semi-fractal shapes based on complex Gaussian map. Chaos, Solitons and Fractals, 2021, 142, 110493.	2.5	6
17	Fractional-Order Bio-Impedance Modeling for Interdisciplinary Applications: A Review. IEEE Access, 2021, 9, 33158-33168.	2.6	23
18	Fractional-Order Edge Detection Masks for Diabetic Retinopathy Diagnosis as a Case Study. Computers, 2021, 10, 30.	2.1	10

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19	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
20	Optimal fractional-order PI with DC-DC converter and PV system. Ain Shams Engineering Journal, 2021, 12, 1895-1906.	3.5	22
21	A Comparative Study of Different Human Skin Impedance Models. , 2021, , .		2
22	CNTFET design of a multiple-port ternary register file. Microelectronics Journal, 2021, 113, 105076.	1.1	5
23	Active emulation circuits of fractional-order memristive elements and its applications. AEU - International Journal of Electronics and Communications, 2021, 138, 153855.	1.7	5
24	Cancellable face recognition based on fractional-order Lorenz chaotic system and Haar wavelet fusion. , 2021, 116, 103103.		39
25	FPGA Realizations of Chaotic Epidemic and Disease Models Including Covid-19. IEEE Access, 2021, 9, 21085-21093.	2.6	7
26	Reconfigurable FPGA Realization of Fractional-Order Chaotic Systems. IEEE Access, 2021, 9, 89376-89389.	2.6	23
27	Double Fractional-order Masks Image Enhancement. , 2021, , .		3
28	A Comparative Study of Different Chaotic Systems in Path Planning for Surveillance Applications. , 2021, , .		3
29	MPPT for a Partially Shaded PV System Using Accelerated Particle Swarms. , 2021, , .		0
30	On the Approximations of CFOA-Based Fractional-Order Inverse Filters. Circuits, Systems, and Signal Processing, 2020, 39, 2-29.	1.2	28
31	A novel image encryption system merging fractional-order edge detection and generalized chaotic maps. Signal Processing, 2020, 167, 107280.	2.1	85
32	Design and Implementation of an Optimized Artificial Human Eardrum Model. Circuits, Systems, and Signal Processing, 2020, 39, 3219-3233.	1.2	10
33	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
34	Optimized Edge Detection Technique for Brain Tumor Detection in MR Images. IEEE Access, 2020, 8, 136243-136259.	2.6	53
35	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
36	Implementation and analysis of tunable fractional-order band-pass filter of order $2\frac{1}{2}$ . AEU - International Journal of Electronics and Communications, 2020, 124, 153343.	1.7	15

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37	Extracting Optimized Bio-Impedance Model Parameters Using Different Topologies of Oscillators. IEEE Sensors Journal, 2020, 20, 9947-9954.	2.4	27
38	Do the Bio-impedance Models Exhibit Pinched Hysteresis?. , 2020, , .		1
39	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
40	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
41	Numerical Simulations and FPGA Implementations of Fractional-Order Systems Based on Product Integration Rules. IEEE Access, 2020, 8, 102093-102105.	2.6	24
42	Emulation circuits of fractional-order memelements with multiple pinched points and their applications. Chaos, Solitons and Fractals, 2020, 138, 109882.	2.5	20
43	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
44	FPGA Implementation of Delayed Fractional-Order Financial Chaotic System. , 2020, , .		2
45	FPGA Implementation of Integer/Fractional Chaotic Systems. Studies in Computational Intelligence, 2020, , 199-229.	0.7	3
46	Center pulse width modulation implementation based on memristor. AEU - International Journal of Electronics and Communications, 2019, 111, 152843.	1.7	0
47	Stability analysis of fractional-order Colpitts oscillators. Analog Integrated Circuits and Signal Processing, 2019, 101, 267-279.	0.9	11
48	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
49	Toward Portable Bio-impedance devices. , 2019, , .		6
50	Heating and Freezing Injury to Plant Tissues and Their Effect on Bioimpedance: Experimental Study. , 2019, , .		1
51	Ternary Functions Design Using Memristive Threshold Logic. IEEE Access, 2019, 7, 48371-48381.	2.6	34
52	General fractional order mem-elements mutators. Microelectronics Journal, 2019, 90, 211-221.	1.1	21
53	Synchronization and FPGA realization of fractional-order Izhikevich neuron model. Microelectronics Journal, 2019, 89, 56-69.	1.1	48
54	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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55	Generalized two-port network based fractional order filters. AEU - International Journal of Electronics and Communications, 2019, 104, 128-146.	1.7	36
56	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
57	N-digits Ternary Carry Lookahead Adder Design. , 2019, , .		7
58	Multifunction Fractional Inverse Filter Based on OTRA. , 2019, , .		5
59	Using Meta-heuristic Optimization to Extract Bio-impedance Parameters from an Oscillator Circuit. , 2019, , .		4
60	A Universal Fractional-Order Memelement Emulation Circuit. , 2019, , .		4
61	Analysis and Design of Fractional-order Low-pass Filter with Three Elements of Independent Orders. , 2019, , .		3
62	CAD Tool for Two-Digit Ternary Functions Design. , 2019, , .		0
63	A Universal Floating Fractional-Order Elements/Memelements Emulator. , 2019, , .		1
64	Design of FOPID Controller for a DC Motor Using Approximation Techniques. , 2019, , .		5
65	A Digital Hardware Implementation for A new Mixed-Order Nonlinear 3-D Chaotic System. , 2019, , .		2
66	Tunable Fractional-Order Band-pass Filter of order $2\hat{1}\pm$ . , 2019, , .		5
67	Fractional-Order Oscillators Based on Double Op-Amp. , 2019, , .		4
68	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
69	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
70	Parameter identification of fractional-order chaotic systems using different Meta-heuristic Optimization Algorithms. Nonlinear Dynamics, 2019, 95, 2491-2542.	2.7	46
71	Fractional order integrator/differentiator: FPGA implementation and FOPID controller application. AEU - International Journal of Electronics and Communications, 2019, 98, 220-229.	1.7	43
72	Generalized double-humped logistic map-based medical image encryption. Journal of Advanced Research, 2018, 10, 85-98.	4.4	93

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73	Fractional-Order Relaxation Oscillators Based on Op-Amp and OTRA. , 2018, , .		4
74	FPGA Speech Encryption Realization Based on Variable S-Box and Memristor Chaotic Circuit. , 2018, , .		4
75	FPGA Implementation of Fractional-Order Chaotic Systems. , 2018, , 33-62.		3
76	Biologically Inspired Optimization Algorithms for Fractional-Order Bioimpedance Models Parameters Extraction. , 2018, , 125-162.		11
77	On the Approximation of Fractional-Order Circuit Design. , 2018, , 239-270.		6
78	Survey on Two-Port Network-Based Fractional-Order Oscillators. , 2018, , 305-327.		8
79	Fractional-Order Filter Design. , 2018, , 357-382.		5
80	Comparison between three approximation methods on oscillator circuits. Microelectronics Journal, 2018, 81, 162-178.	1.1	26
81	Effect of Different Approximation Techniques on Fractional-Order KHN Filter Design. Circuits, Systems, and Signal Processing, 2018, 37, 5222-5252.	1.2	39
82	A generalized family of memristor-based voltage controlled relaxation oscillator. International Journal of Circuit Theory and Applications, 2018, 46, 1311-1327.	1.3	23
83	On the Fractional Order Generalized Discrete Maps. , 2018, , 375-408.		5
84	Biological inspired optimization algorithms for cole-impedance parameters identification. AEU - International Journal of Electronics and Communications, 2017, 78, 79-89.	1.7	80
85	FPGA implementation of two fractional order chaotic systems. AEU - International Journal of Electronics and Communications, 2017, 78, 162-172.	1.7	155
86	Experimental comparison of integer/fractional-order electrical models of plant. AEU - International Journal of Electronics and Communications, 2017, 80, 1-9.	1.7	80
87	Image encryption based on double-humped and delayed logistic maps for biomedical applications. , 2017, , .		4
88	Generalized family of fractional-order oscillators based on single CFOA and RC network. , 2017, , .		16
89	Biomedical image encryption based on double-humped and fractional logistic maps. , 2017, , .		20
90	FPGA realization of Caputo and Grunwald-Letnikov operators. , 2017, , .		19

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91	Fractional controllable multi-scroll V-shape attractor with parameters effect. , 2017, , .		34
92	Fractional order four-phase oscillator based on double integrator topology. , 2017, , .		6
93	Three Fractional-Order-Capacitors-Based Oscillators with Controllable Phase and Frequency. Journal of Circuits, Systems and Computers, 2017, 26, 1750160.	1.0	65
94	Generalized fractional logistic map encryption system based on FPGA. AEU - International Journal of Electronics and Communications, 2017, 80, 114-126.	1.7	76
95	FPGA implementation of fractional-order integrator and differentiator based on GrÅ¼wald Letnikov's definition. , 2017, , .		9
96	Two-port two impedances fractional order oscillators. Microelectronics Journal, 2016, 55, 40-52.	1.1	49
97	Fractional-order inverting and non-inverting filters based on CFOA. , 2016, , .		14
98	Fractional-order oscillator based on single CCII. , 2016, , .		15
99	On The Optimization of Fractional Order Low-Pass Filters. Circuits, Systems, and Signal Processing, 2016, 35, 2017-2039.	1.2	86
100	Fractional Order Oscillator Design Based on Two-Port Network. Circuits, Systems, and Signal Processing, 2016, 35, 3086-3112.	1.2	44
101	Generalized fractional logistic map suitable for data encryption. , 2015, , .		11
102	Fractional order oscillators based on operational transresistance amplifiers. AEU - International Journal of Electronics and Communications, 2015, 69, 988-1003.	1.7	78
103	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