

Ahmed S Elwakil

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

502
papers

9,111
citations

47
h-index

73
g-index

568
ext. papers

10,986
ext. citations

2.7
avg, IF

7.09
L-index

#	Paper	IF	Citations
502	Fractional-order oscillators based on a single Op-Amp 2022 , 411-439		
501	A survey on memristor active emulation circuits in the fractional-order domain 2022 , 375-410		0
500	MOS realizations of fractional-order elements 2022 , 1-33		0
499	A collection of interdisciplinary applications of fractional-order circuits 2022 , 35-69		1
498	Second-order cascode-based filters. <i>The Integration VLSI Journal</i> , 2022 , 84, 111-121	1.4	
497	Discrete fractional-order Caputo method to overcome trapping in local optima: Manta Ray Foraging Optimizer as a case study. <i>Expert Systems With Applications</i> , 2022 , 192, 116355	7.8	1
496	Extended Instantaneous Spectral Analysis (E-ISA) for Advanced Signal Processing. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022 , 1-1	5.2	1
495	Time-Frequency Design of a Multi-Sine Excitation With Random Phase and Controllable Amplitude for (Bio) Impedance Measurements. <i>IEEE Access</i> , 2022 , 10, 31641-31648	3.5	0
494	Electronically Controlled Power-Law Filters Realizations. <i>Fractal and Fractional</i> , 2022 , 6, 111	3	1
493	Versatile Field-Programmable Analog Array Realizations of Power-Law Filters. <i>Electronics (Switzerland)</i> , 2022 , 11, 692	2.6	2
492	Modified fractional-order model for biomass degradation in an up-flow anaerobic sludge blanket reactor at Zenein Wastewater Treatment Plant.. <i>Environmental Science and Pollution Research</i> , 2022 , 29, 25980	5.1	0
491	Plant stem tissue modeling and parameter identification using metaheuristic optimization algorithms.. <i>Scientific Reports</i> , 2022 , 12, 3992	4.9	1
490	Generalizing the Warburg Impedance to a Warburg Impedance Matrix. <i>AEU - International Journal of Electronics and Communications</i> , 2022 , 154202	2.8	
489	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 , 1-8	3.9	4
488	CNTFET-Based Ternary Multiply-and-Accumulate Unit. <i>Electronics (Switzerland)</i> , 2022 , 11, 1455	2.6	0
487	Time-Domain and Frequency-Domain Mappings of Voltage-to-Charge and Charge-to-Voltage in Capacitive Devices. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2022 , 1-1	3.5	
486	Approximation of Fractional-Order Controllers for Mechatronic Applications 2022 , 131-147		

485	FPAA-Based Realization of Filters with Fractional Laplace Operators of Different Orders. <i>Fractal and Fractional</i> , 2021 , 5, 218	3	3
484	. <i>IEEE Access</i> , 2021 , 9, 145977-145987	3.5	3
483	Pinched hysteresis loops in non-linear resonators. <i>IET Circuits, Devices and Systems</i> , 2021 , 15, 88-93	1.1	2
482	Passive approximations of double-exponent fractional-order impedance functions. <i>International Journal of Circuit Theory and Applications</i> , 2021 , 49, 1274-1284	2	3
481	Ultra-low-power compact single-transistor all-pass filter with tunable delay capability. <i>AEU - International Journal of Electronics and Communications</i> , 2021 , 132, 153645	2.8	1
480	A Modified Differentiator Circuit for Extracting Cole-Impedance Model Parameters Using Meta-heuristic Optimization Algorithms. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 9945-9951	2.5	0
479	Highlighting a Common Confusion in the Computation of Capacitance of Electrochemical Energy Storage Devices. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 9591-9592	3.8	4
478	Design of Low-Voltage FO-[PD] Controller for Motion Systems. <i>Journal of Low Power Electronics and Applications</i> , 2021 , 11, 26	1.7	1
477	Extending the double-dispersion Cole-Cole, Cole-Davidson and Havriliak-Negami electrochemical impedance spectroscopy models. <i>European Biophysics Journal</i> , 2021 , 50, 915-926	1.9	3
476	Power-Law Compensator Design for Plants with Uncertainties: Experimental Verification. <i>Electronics (Switzerland)</i> , 2021 , 10, 1305	2.6	4
475	Decoupling the magnitude and phase in a constant phase element. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 888, 115153	4.1	5
474	Delay-Tunable Compact RC-Only All-Pass Filter. <i>IEEE Microwave and Wireless Components Letters</i> , 2021 , 31, 461-464	2.6	0
473	Revisiting the Time-Domain and Frequency-Domain Definitions of Capacitance. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 2912-2916	2.9	10
472	Optimal fractional-order PI with DC-DC converter and PV system. <i>Ain Shams Engineering Journal</i> , 2021 , 12, 1895-1906	4.4	4
471	Novel Double-Dispersion Models Based on Power-Law Filters. <i>Circuits, Systems, and Signal Processing</i> , 2021 , 40, 5799-5812	2.2	2
470	Possibility of information encoding/decoding using the memory effect in fractional-order capacitive devices. <i>Scientific Reports</i> , 2021 , 11, 13306	4.9	5
469	Modelling and implementation of soft bio-mimetic turtle using echo state network and soft pneumatic actuators. <i>Scientific Reports</i> , 2021 , 11, 12076	4.9	5
468	A Comparative Study of Different Human Skin Impedance Models 2021 ,		1

467	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	1.2	4
466	Two implementations of fractional-order relaxation oscillators. <i>Analog Integrated Circuits and Signal Processing</i> , 2021 , 106, 421-432	1.2	4
465	Power law filters: A new class of fractional-order filters without a fractional-order Laplacian operator. <i>AEU - International Journal of Electronics and Communications</i> , 2021 , 129, 153537	2.8	18
464	Trajectory control and image encryption using affine transformation of lorenz system. <i>Egyptian Informatics Journal</i> , 2021 , 22, 155-166	3.1	5
463	A switched chaotic encryption scheme using multi-mode generalized modified transition map. <i>Multimedia Tools and Applications</i> , 2021 , 80, 5373-5402	2.5	2
462	A GrunwaldĀetnikov based Manta ray foraging optimizer for global optimization and image segmentation. <i>Engineering Applications of Artificial Intelligence</i> , 2021 , 98, 104105	7.2	19
461	Programmable constant phase element realization with crossbar arrays. <i>Journal of Advanced Research</i> , 2021 , 29, 137-145	13	1
460	Double Exponent Fractional-Order Filters: Approximation Methods and Realization. <i>Circuits, Systems, and Signal Processing</i> , 2021 , 40, 993-1004	2.2	13
459	Design and FPGA Verification of Custom-Shaped Chaotic Attractors Using Rotation, Offset Boosting and Amplitude Control. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 1-1	3.5	5
458	On-the-Fly Parallel Processing IP-Core for Image Blur Detection, Compression, and Chaotic Encryption Based on FPGA. <i>IEEE Access</i> , 2021 , 9, 82726-82746	3.5	2
457	Fractional-Order Bio-Impedance Modeling for Interdisciplinary Applications: A Review. <i>IEEE Access</i> , 2021 , 9, 33158-33168	3.5	9
456	Tactile sensing biohybrid soft E-skin based on bioimpedance using aloe vera pulp tissues. <i>Scientific Reports</i> , 2021 , 11, 3054	4.9	4
455	Fractional-Order Edge Detection Masks for Diabetic Retinopathy Diagnosis as a Case Study. <i>Computers</i> , 2021 , 10, 30	1.9	4
454	Simple implementations of fractional-order driving-point impedances: Application to biological tissue models. <i>AEU - International Journal of Electronics and Communications</i> , 2021 , 137, 153784	2.8	3
453	Active emulation circuits of fractional-order memristive elements and its applications. <i>AEU - International Journal of Electronics and Communications</i> , 2021 , 138, 153855	2.8	1
452	Cancellable face recognition based on fractional-order Lorenz chaotic system and Haar wavelet fusion 2021 , 116, 103103		6
451	Realizations of fractional-order PID loop-shaping controller for mechatronic applications. <i>The Integration VLSI Journal</i> , 2021 , 80, 5-12	1.4	5
450	Electrochemical stability analysis of red phosphorus-based anode for lithium-ion batteries. <i>Electrochimica Acta</i> , 2021 , 395, 139149	6.7	2

449	FPGA Realizations of Chaotic Epidemic and Disease Models Including Covid-19. <i>IEEE Access</i> , 2021 , 9, 21085-21093	3.5	7
448	Fractional-Order Inductor: Design, Simulation, and Implementation. <i>IEEE Access</i> , 2021 , 9, 73695-73702	3.5	7
447	Memristive Bio-Impedance Modeling of Fruits and Vegetables. <i>IEEE Access</i> , 2021 , 9, 21498-21506	3.5	1
446	On The Equivalent Impedance of Two-Impedance Self-Similar Ladder Networks. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 1-1	3.5	1
445	Analog Circuit Design Using Symbolic Math Toolboxes: Demonstrative Examples. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2021 , 1-11	2.6	
444	Electrical Impedance Spectroscopy in Plant Biology. <i>Sustainable Agriculture Reviews</i> , 2021 , 395-416	1.3	1
443	. <i>IEEE Access</i> , 2021 , 9, 89376-89389	3.5	8
442	Software and Hardware Implementation Sensitivity of Chaotic Systems and Impact on Encryption Applications. <i>Circuits, Systems, and Signal Processing</i> , 2020 , 39, 5638-5655	2.2	10
441	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	2.5	10
440	Fractional chaos maps with flower pollination algorithm for chaotic systems parameters identification. <i>Neural Computing and Applications</i> , 2020 , 32, 16291-16327	4.8	5
439	Numerical Simulations and FPGA Implementations of Fractional-Order Systems Based on Product Integration Rules. <i>IEEE Access</i> , 2020 , 8, 102093-102105	3.5	17
438	Implementation of a Fractional-Order Electronically Reconfigurable Lung Impedance Emulator of the Human Respiratory Tree. <i>Journal of Low Power Electronics and Applications</i> , 2020 , 10, 18	1.7	5
437	Generalized switched synchronization and dependent image encryption using dynamically rotating fractional-order chaotic systems. <i>AEU - International Journal of Electronics and Communications</i> , 2020 , 123, 153268	2.8	19
436	Active circuit model of low-frequency behavior in perovskite solar cells. <i>Organic Electronics</i> , 2020 , 85, 105804	3.5	3
435	A generic impedance modeling technique. <i>AEU - International Journal of Electronics and Communications</i> , 2020 , 123, 153301	2.8	2
434	FPGA implementation of a chaotic oscillator with odd/even symmetry and its application. <i>The Integration VLSI Journal</i> , 2020 , 72, 163-170	1.4	8
433	Extraction of bioimpedance phase information from its magnitude using a non-uniform Kramers-Kronig transform. <i>European Biophysics Journal</i> , 2020 , 49, 207-213	1.9	4
432	Reduced Active Components Count Electronically Adjustable Fractional-Order Controllers: Two Design Examples. <i>Electronics (Switzerland)</i> , 2020 , 9, 63	2.6	6

431	Enhanced FPGA realization of the fractional-order derivative and application to a variable-order chaotic system. <i>Nonlinear Dynamics</i> , 2020 , 99, 3143-3154	5	9
430	Nonlinear charge-voltage relationship in constant phase element. <i>AEU - International Journal of Electronics and Communications</i> , 2020 , 117, 153104	2.8	13
429	Wideband third-order single-transistor all-pass filter. <i>International Journal of Circuit Theory and Applications</i> , 2020 , 48, 1201-1208	2	6
428	A study of the nonlinear dynamics of human behavior and its digital hardware implementation. <i>Journal of Advanced Research</i> , 2020 , 25, 111-123	13	16
427	Fast Spectral Impedance Measurement Method Using a Structured Random Excitation. <i>IEEE Sensors Journal</i> , 2020 , 20, 8637-8642	4	4
426	Employment of the Padé approximation for implementing fractional-order lead/lag compensators. <i>AEU - International Journal of Electronics and Communications</i> , 2020 , 120, 153203	2.8	11
425	Communication The Ragone Plot of Supercapacitors Under Different Loading Conditions. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 020533	3.9	6
424	FPGA Implementation of Integer/Fractional Chaotic Systems. <i>Studies in Computational Intelligence</i> , 2020 , 199-229	0.8	2
423	Chaotic Clock Driven Cryptographic Chip: Towards a DPA Resistant AES Processor. <i>IEEE Transactions on Emerging Topics in Computing</i> , 2020 , 1-1	4.1	3
422	Two-Port Network Analysis of Equal Fractional-order Wireless Power Transfer Circuit 2020 ,		2
421	Quantification of memory in fractional-order capacitors. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 02LT03	3.03	14
420	Fractional-order electric double-layer capacitors with tunable low-frequency impedance phase angle and energy storage capabilities. <i>Applied Physics Letters</i> , 2020 , 116, 013902	3.4	13
419	Single transistor RC-only second-order allpass filters. <i>International Journal of Circuit Theory and Applications</i> , 2020 , 48, 162-169	2	7
418	Design and Implementation of an Optimized Artificial Human Eardrum Model. <i>Circuits, Systems, and Signal Processing</i> , 2020 , 39, 3219-3233	2.2	8
417	Fractional-Order Complementary Filters for Sensor Applications 2020 ,		1
416	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	2.8	10
415	Fractional derivative modeling of double-diffusive free convection with von Neumann stability analysis. <i>International Journal of Modelling and Simulation</i> , 2020 , 1-12	1.5	1
414	Optimized Edge Detection Technique for Brain Tumor Detection in MR Images. <i>IEEE Access</i> , 2020 , 8, 136343-136259	3.43	16

413	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	2.8	18
412	Implementation and analysis of tunable fractional-order band-pass filter of order 2. <i>AEU - International Journal of Electronics and Communications</i> , 2020 , 124, 153343	2.8	6
411	On chip 0.5 V 2 GHz four-output quadrature-phase oscillator. <i>AEU - International Journal of Electronics and Communications</i> , 2020 , 126, 153393	2.8	2
410	Extracting Optimized Bio-Impedance Model Parameters Using Different Topologies of Oscillators. <i>IEEE Sensors Journal</i> , 2020 , 20, 9947-9954	4	18
409	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 4348-4360	4.1	6
408	Parallel random bitstreams from a single source of entropy based on nonthermal electrochemical microplasma. <i>Plasma Processes and Polymers</i> , 2020 , 17, 2000123	3.4	3
407	Low-Power Single-Transistor Voltage-Mode Third-Order All-pass Filter in 65-nm CMOS 2020 ,		2
406	Atmospheric pressure air microplasma current time series for true random bit generation. <i>Scientific Reports</i> , 2020 , 10, 20971	4.9	0
405	Chaotic Dynamics and FPGA Implementation of a Fractional-Order Chaotic System With Time Delay. <i>IEEE Open Journal of Circuits and Systems</i> , 2020 , 1, 255-262	1.7	3
404	Self-Reproducing Hidden Attractors in Fractional-Order Chaotic Systems Using Affine Transformations. <i>IEEE Open Journal of Circuits and Systems</i> , 2020 , 1, 243-254	1.7	2
403	Simple Implementations of the Cole-Cole Models 2020 ,		1
402	Realization of Cole-Davidson Function-Based Impedance Models: Application on Plant Tissues. <i>Fractal and Fractional</i> , 2020 , 4, 54	3	5
401	Automatic Generation of Differential-Input Differential-Output Second-Order Filters Based on a Differential Pair. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2020 , 39, 1258-1271	2.5	7
400	On the Approximations of CFOA-Based Fractional-Order Inverse Filters. <i>Circuits, Systems, and Signal Processing</i> , 2020 , 39, 2-29	2.2	21
399	Generalized Fully Adjustable Structure for Emulating Fractional-Order Capacitors and Inductors of Orders less than Two. <i>Circuits, Systems, and Signal Processing</i> , 2020 , 39, 1797-1814	2.2	14
398	Multiplierless chaotic Pseudo random number generators. <i>AEU - International Journal of Electronics and Communications</i> , 2020 , 113, 152947	2.8	17
397	A novel image encryption system merging fractional-order edge detection and generalized chaotic maps. <i>Signal Processing</i> , 2020 , 167, 107280	4.4	57
396	Toward Portable Bio-impedance devices 2019 ,		5

395	Cole Bio-Impedance Model Variations in <i>Daucus~Carota~Sativus</i> Under Heating and Freezing Conditions. <i>IEEE Access</i> , 2019 , 1-1	3.5	16
394	Simple Multi-Function Fractional-Order Filter Designs 2019 ,		5
393	Fractional-Order Mihalas-Niebur Neuron Model Implementation Using Current-Mirrors 2019 ,		1
392	Fractional order Chebyshev-like low-pass filters based on integer order poles. <i>Microelectronics Journal</i> , 2019 , 90, 72-81	1.8	7
391	Realizations of simple fractional-order capacitor emulators with electronically-tunable capacitance. <i>The Integration VLSI Journal</i> , 2019 , 69, 225-233	1.4	7
390	Ternary Functions Design Using Memristive Threshold Logic. <i>IEEE Access</i> , 2019 , 7, 48371-48381	3.5	15
389	Multiple Pinch-Off Points in Memristive Equations: Analysis and Experiments. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2019 , 66, 3052-3063	3.9	11
388	Synchronization and FPGA realization of fractional-order Izhikevich neuron model. <i>Microelectronics Journal</i> , 2019 , 89, 56-69	1.8	26
387	Low-voltage and low-power fractional-order parallel tunable resonator. <i>Microelectronics Journal</i> , 2019 , 88, 108-116	1.8	5
386	FPGA implementation of sound encryption system based on fractional-order chaotic systems. <i>Microelectronics Journal</i> , 2019 , 90, 323-335	1.8	21
385	Single transistor fractional-order filter using a multi-walled carbon nanotube device. <i>Analog Integrated Circuits and Signal Processing</i> , 2019 , 100, 215-219	1.2	3
384	Simple MOS Transistor-Based Realization of Fractional-Order Capacitors 2019 ,		1
383	A Wideband Delay-Tunable Fully Differential Allpass Filter in 65-nm CMOS Technology 2019 ,		10
382	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2019 , 66, 2606-2614	3.9	7
381	In-Direct Impedance Measurement: Phase Extraction Algorithm 2019 , 33-49		
380	In-Direct Impedance Measurement: Design and Implementation 2019 , 51-80		
379	One-terminal electronically controlled fractional-order capacitor and inductor emulator. <i>AEU - International Journal of Electronics and Communications</i> , 2019 , 103, 32-45	2.8	16
378	Modulating the energy storage of supercapacitors by mixing close-to-ideal and far-from-ideal capacitive carbon nanofibers. <i>Electrochimica Acta</i> , 2019 , 301, 465-471	6.7	5

377	The minimax approach for a class of variable order fractional differential equation. <i>Mathematical Methods in the Applied Sciences</i> , 2019 , 42, 2734-2745	2.3	0
376	Generalized two-port network based fractional order filters. <i>AEU - International Journal of Electronics and Communications</i> , 2019 , 104, 128-146	2.8	30
375	On the modeling of dispersive transient photocurrent response of organic solar cells. <i>Organic Electronics</i> , 2019 , 70, 42-47	3.5	13
374	Comprehensive comparison based on meta-heuristic algorithms for approximation of the fractional-order Laplacian as a weighted sum of first-order high-pass filters. <i>Microelectronics Journal</i> , 2019 , 87, 110-120	1.8	21
373	Two-Dimensional Rotation of Chaotic Attractors: Demonstrative Examples and FPGA Realization. <i>Circuits, Systems, and Signal Processing</i> , 2019 , 38, 4890-4903	2.2	11
372	Design and Implementation of Portable Impedance Analyzers 2019 ,		8
371	Partial fraction expansion based realizations of fractional-order differentiators and integrators using active filters. <i>International Journal of Circuit Theory and Applications</i> , 2019 , 47, 513-531	2	30
370	Hardware Optimized FPGA Implementations of High-Speed True Random Bit Generators Based on Switching-Type Chaotic Oscillators. <i>Circuits, Systems, and Signal Processing</i> , 2019 , 38, 1342-1359	2.2	17
369	Electronically tunable fractional-order highpass filter for phantom electroencephalographic system model implementation. <i>AEU - International Journal of Electronics and Communications</i> , 2019 , 110, 152850	2.8	11
368	Commercial supercapacitor parameter estimation from step voltage excitation. <i>International Journal of Circuit Theory and Applications</i> , 2019 , 47, 1705-1712	2	1
367	Cole-Cole Bio-Impedance Parameters Extraction From a Single Time-Domain Measurement 2019 ,		2
366	Log-Domain Implementation of Fractional-Order Element Emulators 2019 ,		1
365	Design of Fractional-Order Differentiator-Lowpass Filters for Extracting the R peaks in ECG Signals 2019 ,		1
364	Center pulse width modulation implementation based on memristor. <i>AEU - International Journal of Electronics and Communications</i> , 2019 , 111, 152843	2.8	
363	Supercapacitor discharge under constant resistance, constant current and constant power loads. <i>Journal of Power Sources</i> , 2019 , 435, 226829	8.9	21
362	Stability analysis of fractional-order Colpitts oscillators. <i>Analog Integrated Circuits and Signal Processing</i> , 2019 , 101, 267-279	1.2	7
361	Communication Convolution-Based Estimation of Supercapacitor Parameters under Periodic Voltage Excitations. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A2267-A2269	3.9	8
360	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	9.3	31

359	Frequency-Dependent Effective Capacitance of Supercapacitors Using Electrospun Cobalt-Carbon Composite Nanofibers. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A2403-A2408	3.9	5
358	On the mechanism of creating pinched hysteresis loops using a commercial memristor device. <i>AEU - International Journal of Electronics and Communications</i> , 2019 , 111, 152923	2.8	10
357	Speech Encryption on FPGA Using a Chaotic Generator and S-Box Table 2019 ,		2
356	Single-Transistor Second-Order Allpass Filters 2019 ,		6
355	Bio-Impedance Measurement and Applications 2019 , 1-14		1
354	All Possible Topologies of the Fractional-Order Wien Oscillator Family Using Different Approximation Techniques. <i>Circuits, Systems, and Signal Processing</i> , 2019 , 38, 3931-3951	2.2	32
353	Realization of fractional-order capacitor based on passive symmetric network. <i>Journal of Advanced Research</i> , 2019 , 18, 147-159	13	25
352	Enhancing the improved Howland circuit. <i>International Journal of Circuit Theory and Applications</i> , 2019 , 47, 532-541	2	3
351	N-digits Ternary Carry Lookahead Adder Design 2019 ,		2
350	8-GHz Low-Power Voltage-Mode Second-Order Allpass Filter in 65-nm CMOS 2019 ,		4
349	On the Implementation of a Rotated Chaotic Lorenz System on FPGA 2019 ,		2
348	Multifunction Fractional Inverse Filter Based on OTRA 2019 ,		3
347	Using Meta-heuristic Optimization to Extract Bio-impedance Parameters from an Oscillator Circuit 2019 ,		3
346	Fractional Derivative Modeling of Free Convective Flow over a Vertical Plate with Stability Analysis 2019 ,		1
345	Third-order tunable-phase asymmetric cross-coupled oscillator. <i>IET Circuits, Devices and Systems</i> , 2019 , 13, 929-933	1.1	1
344	A Universal Fractional-Order Memelement Emulation Circuit 2019 ,		2
343	Analysis and Design of Fractional-order Low-pass Filter with Three Elements of Independent Orders 2019 ,		3
342	Fully Electronically Tunable Inverse Fractional-Order Filter Designs 2019 ,		1

341	All-Dynamic Synchronization of Rotating Fractional-Order Chaotic Systems 2019 ,		1
340	An Ultra-Low Power Wide-Band Single-Transistor Second-Order Allpass Filter in 65nm CMOS 2019 ,		4
339	Banana Ripening and Corresponding Variations in Bio-Impedance and Glucose Levels 2019 ,		2
338	Fractional-order Nonminimum-phase Filter Design 2019 ,		1
337	A Simple BJT Inverse Memristor Emulator and Its Application in Chaotic Oscillators 2019 ,		3
336	Design of FOPID Controller for a DC Motor Using Approximation Techniques 2019 ,		4
335	OTA-C Implementation of Fractional-Order Lead/Lag Compensators 2019 ,		1
334	A Digital Hardware Implementation for A new Mixed-Order Nonlinear 3-D Chaotic System 2019 ,		1
333	Tunable Fractional-Order Band-pass Filter of order 2 2019 ,		2
332	Minimum MOS Transistor Count Fractional-Order Voltage-Mode and Current-Mode Filters. <i>Technologies</i> , 2019 , 7, 85	2.4	2
331	Digital Emulation of a Versatile Memristor With Speech Encryption Application. <i>IEEE Access</i> , 2019 , 7, 174280-174297	3.5	4
330	Fractional-Order Oscillators Based on Double Op-Amp 2019 ,		2
329	Novel two-measurements-only Cole-Cole bio-impedance parameters extraction technique. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019 , 131, 394-399	4.6	13
328	A voltage tunable CMOS differential active resistor and its application. <i>International Journal of Circuit Theory and Applications</i> , 2019 , 47, 175-185	2	1
327	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2019 , 66, 1484-1495	3.9	34
326	Chaotic Flower Pollination and Grey Wolf Algorithms for parameter extraction of bio-impedance models. <i>Applied Soft Computing Journal</i> , 2019 , 75, 750-774	7.5	41
325	Memristor FPGA IP Core Implementation for Analog and Digital Applications. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2019 , 66, 1381-1385	3.5	14
324	Parameter identification of fractional-order chaotic systems using different Meta-heuristic Optimization Algorithms. <i>Nonlinear Dynamics</i> , 2019 , 95, 2491-2542	5	30

323	Reconfigurable chaotic pseudo random number generator based on FPGA. <i>AEU - International Journal of Electronics and Communications</i> , 2019 , 98, 174-180	2.8	45
322	Rates and Effects of Local Minima on Fractional-Order Circuit Model Parameters Extracted from Supercapacitor Discharging Using Least Squares Optimization. <i>Circuits, Systems, and Signal Processing</i> , 2019 , 38, 1907-1922	2.2	4
321	Fractional order integrator/differentiator: FPGA implementation and FOPID controller application. <i>AEU - International Journal of Electronics and Communications</i> , 2019 , 98, 220-229	2.8	28
320	FPGA realization of a speech encryption system based on a generalized modified chaotic transition map and bit permutation. <i>Multimedia Tools and Applications</i> , 2019 , 78, 16097-16127	2.5	21
319	Design and application examples of CMOS fractional-order differentiators and integrators. <i>Microelectronics Journal</i> , 2019 , 83, 155-167	1.8	18
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5	Pulse-excited RC nonautonomous chaotic oscillator structures		1
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1	FPGA REALIZATION OF COMPLEX LOGISTIC MAP FRACTAL BEHAVIOR. <i>Fractals</i> ,	3.2	1