

Ahmed G Radwan

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.

333
papers

6,650
citations

45
h-index

67
g-index

379
ext. papers

8,091
ext. citations

3.1
avg, IF

6.72
L-index

#	Paper	IF	Citations
333	Underwater Soft Robotics: A Review of Bioinspiration in Design, Actuation, Modeling, and Control.. <i>Micromachines</i> , 2022 , 13,	3.3	7
332	Modeling woody plant tissue using different fractional-order circuits 2022 , 457-474		
331	Fractional-order oscillators based on a single Op-Amp 2022 , 411-439		
330	A survey on memristor active emulation circuits in the fractional-order domain 2022 , 375-410		0
329	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
328	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
327	Plant stem tissue modeling and parameter identification using metaheuristic optimization algorithms.. <i>Scientific Reports</i> , 2022 , 12, 3992	4.9	1
326	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
325	CNTFET-Based Ternary Multiply-and-Accumulate Unit. <i>Electronics (Switzerland)</i> , 2022 , 11, 1455	2.6	0
324	FPGA realization of fractals based on a new generalized complex logistic map. <i>Chaos, Solitons and Fractals</i> , 2022 , 160, 112215	9.3	0
323	Pinched hysteresis loops in non-linear resonators. <i>IET Circuits, Devices and Systems</i> , 2021 , 15, 88-93	1.1	2
322	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
321	Optimal fractional-order PI with DC-DC converter and PV system. <i>Ain Shams Engineering Journal</i> , 2021 , 12, 1895-1906	4.4	4
320	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
319	A Comparative Study of Different Human Skin Impedance Models 2021 ,		1
318	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
317	Two implementations of fractional-order relaxation oscillators. <i>Analog Integrated Circuits and Signal Processing</i> , 2021 , 106, 421-432	1.2	4

3 ¹⁶	Trajectory control and image encryption using affine transformation of lorenz system. <i>Egyptian Informatics Journal</i> , 2021 , 22, 155-166	3.1	5
3 ¹⁵	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
3 ¹⁴	Analysis and FPGA of semi-fractal shapes based on complex Gaussian map. <i>Chaos, Solitons and Fractals</i> , 2021 , 142, 110493	9.3	5
3 ¹³	A Grunwald-Detnikov based Manta ray foraging optimizer for global optimization and image segmentation. <i>Engineering Applications of Artificial Intelligence</i> , 2021 , 98, 104105	7.2	19
3 ¹²	Optimal charging of fractional-order circuits with Cuckoo search. <i>Journal of Advanced Research</i> , 2021 , 32, 119-131	13	2
3 ¹¹	Programmable constant phase element realization with crossbar arrays. <i>Journal of Advanced Research</i> , 2021 , 29, 137-145	13	1
3 ¹⁰	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
3 ⁰⁹	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
3 ⁰⁸	Fractional-Order Bio-Impedance Modeling for Interdisciplinary Applications: A Review. <i>IEEE Access</i> , 2021 , 9, 33158-33168	3.5	9
3 ⁰⁷	Tactile sensing biohybrid soft E-skin based on bioimpedance using aloe vera pulp tissues. <i>Scientific Reports</i> , 2021 , 11, 3054	4.9	4
3 ⁰⁶	Fractional-Order Edge Detection Masks for Diabetic Retinopathy Diagnosis as a Case Study. <i>Computers</i> , 2021 , 10, 30	1.9	4
3 ⁰⁵	CNTFET design of a multiple-port ternary register file. <i>Microelectronics Journal</i> , 2021 , 113, 105076	1.8	2
3 ⁰⁴	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
3 ⁰³	Cancellable face recognition based on fractional-order Lorenz chaotic system and Haar wavelet fusion 2021 , 116, 103103		6
3 ⁰²	FPGA Realizations of Chaotic Epidemic and Disease Models Including Covid-19. <i>IEEE Access</i> , 2021 , 9, 21085-21093	9.5	21093
3 ⁰¹	Memristive Bio-Impedance Modeling of Fruits and Vegetables. <i>IEEE Access</i> , 2021 , 9, 21498-21506	3.5	1
3 ⁰⁰	. <i>IEEE Access</i> , 2021 , 9, 89376-89389	3.5	8
2 ⁹⁹	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

298	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
297	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
296	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
295	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
294	Optimal Charging and Discharging of Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 110521	3.9	5
293	Emulation circuits of fractional-order memelements with multiple pinched points and their applications. <i>Chaos, Solitons and Fractals</i> , 2020 , 138, 109882	9.3	12
292	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
291	Nonlinear charge-voltage relationship in constant phase element. <i>AEU - International Journal of Electronics and Communications</i> , 2020 , 117, 153104	2.8	13
290	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
289	FPGA Implementation of Integer/Fractional Chaotic Systems. <i>Studies in Computational Intelligence</i> , 2020 , 199-229	0.8	2
288	Generalized α -Order Filter Based on Single CCII 2020 ,		1
287	Design and Implementation of an Optimized Artificial Human Eardrum Model. <i>Circuits, Systems, and Signal Processing</i> , 2020 , 39, 3219-3233	2.2	8
286	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
285	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
284	Optimized Edge Detection Technique for Brain Tumor Detection in MR Images. <i>IEEE Access</i> , 2020 , 8, 136243-136259	3.5	15
283	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, 153347-153354	2.8	18
282	Implementation and analysis of tunable fractional-order band-pass filter of order 2α . <i>AEU - International Journal of Electronics and Communications</i> , 2020 , 124, 153343	2.8	6
281	Extracting Optimized Bio-Impedance Model Parameters Using Different Topologies of Oscillators. <i>IEEE Sensors Journal</i> , 2020 , 20, 9947-9954	4	18

280	2020,		2
279	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
278	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
277	On the Approximations of CFOA-Based Fractional-Order Inverse Filters. <i>Circuits, Systems, and Signal Processing</i> , 2020 , 39, 2-29	2.2	21
276	Multiplierless chaotic Pseudo random number generators. <i>AEU - International Journal of Electronics and Communications</i> , 2020 , 113, 152947	2.8	17
275	A novel image encryption system merging fractional-order edge detection and generalized chaotic maps. <i>Signal Processing</i> , 2020 , 167, 107280	4.4	57
274	Toward Portable Bio-impedance devices 2019,		5
273	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
272	Fractional order Chebyshev-like low-pass filters based on integer order poles. <i>Microelectronics Journal</i> , 2019 , 90, 72-81	1.8	7
271	Ternary Functions Design Using Memristive Threshold Logic. <i>IEEE Access</i> , 2019 , 7, 48371-48381	3.5	15
270	General fractional order mem-elements mutators. <i>Microelectronics Journal</i> , 2019 , 90, 211-221	1.8	15
269	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
268	Synchronization and FPGA realization of fractional-order Izhikevich neuron model. <i>Microelectronics Journal</i> , 2019 , 89, 56-69	1.8	26
267	Low-voltage and low-power fractional-order parallel tunable resonator. <i>Microelectronics Journal</i> , 2019 , 88, 108-116	1.8	5
266	FPGA implementation of sound encryption system based on fractional-order chaotic systems. <i>Microelectronics Journal</i> , 2019 , 90, 323-335	1.8	21
265	Simple MOS Transistor-Based Realization of Fractional-Order Capacitors 2019,		1
264	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
263	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

262	Generalized two-port network based fractional order filters. <i>AEU - International Journal of Electronics and Communications</i> , 2019 , 104, 128-146	2.8	30
261	Comprehensive comparison based on meta-heuristic algorithms for approximation of the fractional-order Laplacian s ⁿ as a weighted sum of first-order high-pass filters. <i>Microelectronics Journal</i> , 2019 , 87, 110-120	1.8	21
260	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
259	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
258	Cole-Cole Bio-Impedance Parameters Extraction From a Single Time-Domain Measurement 2019 ,		2
257	Log-Domain Implementation of Fractional-Order Element Emulators 2019 ,		1
256	Center pulse width modulation implementation based on memristor. <i>AEU - International Journal of Electronics and Communications</i> , 2019 , 111, 152843	2.8	
255	Stability analysis of fractional-order Colpitts oscillators. <i>Analog Integrated Circuits and Signal Processing</i> , 2019 , 101, 267-279	1.2	7
254	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
253	Speech Encryption on FPGA Using a Chaotic Generator and S-Box Table 2019 ,		2
252	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
251	Realization of fractional-order capacitor based on passive symmetric network. <i>Journal of Advanced Research</i> , 2019 , 18, 147-159	13	25
250	N-digits Ternary Carry Lookahead Adder Design 2019 ,		2
249	On the Implementation of a Rotated Chaotic Lorenz System on FPGA 2019 ,		2
248	Multifunction Fractional Inverse Filter Based on OTRA 2019 ,		3
247	Using Meta-heuristic Optimization to Extract Bio-impedance Parameters from an Oscillator Circuit 2019 ,		3
246	Fractional Derivative Modeling of Free Convective Flow over a Vertical Plate with Stability Analysis 2019 ,		1
245	A Universal Fractional-Order Memelement Emulation Circuit 2019 ,		2

244	Analysis and Design of Fractional-order Low-pass Filter with Three Elements of Independent Orders 2019 ,		3
243	All-Dynamic Synchronization of Rotating Fractional-Order Chaotic Systems 2019 ,		1
242	Banana Ripening and Corresponding Variations in Bio-Impedance and Glucose Levels 2019 ,		2
241	Fractional-order Nonminimum-phase Filter Design 2019 ,		1
240	Impact of Oustaloup and Matsuda Approximations on Fractional PID Controller of PV Panel 2019 ,		1
239	Design of FOPID Controller for a DC Motor Using Approximation Techniques 2019 ,		4
238	A Digital Hardware Implementation for A new Mixed-Order Nonlinear 3-D Chaotic System 2019 ,		1
237	Tunable Fractional-Order Band-pass Filter of order 2 2019 ,		2
236	Digital Emulation of a Versatile Memristor With Speech Encryption Application. <i>IEEE Access</i> , 2019 , 7, 174280-174297	3.5	4
235	Fractional-Order Oscillators Based on Double Op-Amp 2019 ,		2
234	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2019 , 66, 1484-1495	3.9	34
233	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
232	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
231	Parameter identification of fractional-order chaotic systems using different Meta-heuristic Optimization Algorithms. <i>Nonlinear Dynamics</i> , 2019 , 95, 2491-2542	5	30
230	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
229	Memristor-based quinary half adder. <i>AEU - International Journal of Electronics and Communications</i> , 2019 , 98, 123-130	2.8	9
228	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
227	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

226	Approximation of the Fractional-Order Laplacian s^α As a Weighted Sum of First-Order High-Pass Filters. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2018 , 65, 1114-1118	3.5	43
225	Fractional-Order Model (FOM) for high-strength substrate biodegradation in conventional UASB reactor. <i>Biochemical Engineering Journal</i> , 2018 , 133, 39-46	4.2	4
224	Generalized double-humped logistic map-based medical image encryption. <i>Journal of Advanced Research</i> , 2018 , 10, 85-98	13	62
223	Design and analysis of 2T2M hybrid CMOS-Memristor based RRAM. <i>Microelectronics Journal</i> , 2018 , 73, 75-85	1.8	15
222	Memristor-CNTFET based ternary logic gates. <i>Microelectronics Journal</i> , 2018 , 72, 74-85	1.8	26
221	Capacitive behavior and stored energy in supercapacitors at power line frequencies. <i>Journal of Power Sources</i> , 2018 , 390, 142-147	8.9	37
220	On the Analysis and Design of Fractional-Order Chebyshev Complex Filter. <i>Circuits, Systems, and Signal Processing</i> , 2018 , 37, 915-938	2.2	17
219	Transient and Steady-State Response of a Fractional-Order Dynamic PV Model Under Different Loads. <i>Journal of Circuits, Systems and Computers</i> , 2018 , 27, 1850023	0.9	12
218	Modeling and analysis of fractional order DC-DC converter. <i>ISA Transactions</i> , 2018 , 82, 184-199	5.5	47
217	High-Frequency Capacitorless Fractional-Order CPE and FI Emulator. <i>Circuits, Systems, and Signal Processing</i> , 2018 , 37, 2694-2713	2.2	18
216	Study of fractional flux-controlled memristor emulator connections 2018 ,		4
215	Speech encryption using generalized modified chaotic logistic and tent maps 2018 ,		1
214	Conditions and Emulation of Double Pinch-off Points in Fractional-order Memristor 2018 ,		7
213	Review of fractional-order electrical characterization of supercapacitors. <i>Journal of Power Sources</i> , 2018 , 400, 457-467	8.9	92
212	Two topologies of fractional-order oscillators based on CFOA and RC networks 2018 ,		1
211	FPGA implementation of fractional-order Chua's chaotic system 2018 ,		3
210	A generalized family of memristor-based voltage controlled relaxation oscillator. <i>International Journal of Circuit Theory and Applications</i> , 2018 , 46, 1311-1327	2	14
209	Nonlinear Fractional Order Boundary-Value Problems With Multiple Solutions 2018 , 37-74		1

208	On the Fractional Order Generalized Discrete Maps 2018 , 375-408		2
207	Applications of Continuous-time Fractional Order Chaotic Systems 2018 , 409-449		8
206	Chaotic Properties of Various Types of Hidden Attractors in Integer and Fractional Order Domains 2018 , 503-528		2
205	Chaos-based hardware speech encryption scheme using modified tent map and bit permutation 2018 ,		7
204	Chaos and Bifurcation in Controllable Jerk-Based Self-Excited Attractors. <i>Studies in Systems, Decision and Control</i> , 2018 , 45-70	0.8	5
203	Self-Excited Attractors in Jerk Systems: Overview and Numerical Investigation of Chaos Production. <i>Studies in Systems, Decision and Control</i> , 2018 , 71-86	0.8	1
202	Modified methods for solving two classes of distributed order linear fractional differential equations. <i>Applied Mathematics and Computation</i> , 2018 , 323, 106-119	2.7	7
201	Fractional-Order Relaxation Oscillators Based on Op-Amp and OTRA 2018 ,		3
200	Memristor-CNTFET based Ternary Comparator unit 2018 ,		1
199	FPGA Speech Encryption Realization Based on Variable S-Box and Memristor Chaotic Circuit 2018 ,		4
198	Hardware Speech Encryption Using a Chaotic Generator, Dynamic Shift and Bit Permutation 2018 ,		5
197	Incremental Grounded Voltage Controlled Memristor Emulator 2018 ,		3
196	An Automated Lightweight UVM Tool 2018 ,		1
195	Experimental Verification of Triple Lobes Generation in Fractional Memristive Circuits. <i>IEEE Access</i> , 2018 , 6, 75169-75180	3.5	7
194	FPGA Implementation of Fractional-Order Chaotic Systems 2018 , 33-62		2
193	Biologically Inspired Optimization Algorithms for Fractional-Order Bioimpedance Models Parameters Extraction 2018 , 125-162		9
192	On the Approximation of Fractional-Order Circuit Design 2018 , 239-270		6
191	Survey on Two-Port Network-Based Fractional-Order Oscillators 2018 , 305-327		7

190	Fractional-Order Filter Design 2018 , 357-382		4
189	Comparison between three approximation methods on oscillator circuits. <i>Microelectronics Journal</i> , 2018 , 81, 162-178	1.8	20
188	Effect of Different Approximation Techniques on Fractional-Order KHN Filter Design. <i>Circuits, Systems, and Signal Processing</i> , 2018 , 37, 5222-5252	2.2	31
187	FPGA realization of speech encryption based on modified chaotic logistic map 2018 ,		6
186	FPGA Implementation of X- and Heart-shapes Controllable Multi-Scroll Attractors 2018 ,		4
185	A Study on Coexistence of Different Types of Synchronization Between Different Dimensional Fractional Chaotic Systems. <i>Studies in Computational Intelligence</i> , 2017 , 637-669	0.8	12
184	Control and Synchronization of Fractional-Order Chaotic Systems. <i>Studies in Computational Intelligence</i> , 2017 , 325-355	0.8	3
183	Generalized Synchronization of Different Dimensional Integer-Order and Fractional Order Chaotic Systems. <i>Studies in Computational Intelligence</i> , 2017 , 671-697	0.8	17
182	Memristor and Inverse Memristor: Modeling, Implementation and Experiments. <i>Studies in Computational Intelligence</i> , 2017 , 371-392	0.8	7
181	Generalized Smooth Transition Map Between Tent and Logistic Maps. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2017 , 27, 1730004	2	9
180	Biological inspired optimization algorithms for cole-impedance parameters identification. <i>AEU - International Journal of Electronics and Communications</i> , 2017 , 78, 79-89	2.8	67
179	FPGA implementation of two fractional order chaotic systems. <i>AEU - International Journal of Electronics and Communications</i> , 2017 , 78, 162-172	2.8	129
178	Fractional-order impedance transformation based on three port mutators. <i>AEU - International Journal of Electronics and Communications</i> , 2017 , 81, 12-22	2.8	7
177	Low-voltage commercial super-capacitor response to periodic linear-with-time current excitation: a case study. <i>IET Circuits, Devices and Systems</i> , 2017 , 11, 189-195	1.1	15
176	Experimental comparison of integer/fractional-order electrical models of plant. <i>AEU - International Journal of Electronics and Communications</i> , 2017 , 80, 1-9	2.8	65
175	Image encryption based on double-humped and delayed logistic maps for biomedical applications 2017 ,		3
174	Dead-beat synchronization control in discrete-time chaotic systems 2017 ,		27
173	Chaos synchronisation of continuous systems via scalar signal 2017 ,		32

172	Generalized family of fractional-order oscillators based on single CFOA and RC network 2017 ,		11
171	Biomedical image encryption based on double-humped and fractional logistic maps 2017 ,		13
170	Chaotic systems based on jerk equation and discrete maps with scaling parameters 2017 ,		4
169	FPGA realization of Caputo and Gr̄wald-Letnikov operators 2017 ,		16
168	On the analysis of current-controlled fractional-order memristor emulator 2017 ,		12
167	Fractional controllable multi-scroll V-shape attractor with parameters effect 2017 ,		32
166	Fractional order four-phase oscillator based on double integrator topology 2017 ,		4
165	Three Fractional-Order-Capacitors-Based Oscillators with Controllable Phase and Frequency. <i>Journal of Circuits, Systems and Computers</i> , 2017 , 26, 1750160	0.9	52
164	Controlled Picard Method for Solving Nonlinear Fractional ReactionDiffusion Models in Porous Catalysts. <i>Chemical Engineering Communications</i> , 2017 , 204, 635-647	2.2	8
163	Finite Precision Logistic Map between Computational Efficiency and Accuracy with Encryption Applications. <i>Complexity</i> , 2017 , 2017, 1-21	1.6	18
162	Generalized Dynamic Switched Synchronization between Combinations of Fractional-Order Chaotic Systems. <i>Complexity</i> , 2017 , 2017, 1-17	1.6	14
161	New Trends on Modeling, Design, and Control of Chaotic Systems. <i>Mathematical Problems in Engineering</i> , 2017 , 2017, 1-3	1.1	3
160	A Novel Chaotic System without Equilibrium: Dynamics, Synchronization, and Circuit Realization. <i>Complexity</i> , 2017 , 2017, 1-11	1.6	68
159	Single and dual solutions of fractional order differential equations based on controlled Picard̄ method with Simpson rulePeer review under responsibility of University of Bahrain.View all notes. <i>Journal of the Association of Arab Universities for Basic and Applied Sciences</i> , 2017 , 24, 247-253		2
158	Analytical solution for fractional derivative gas-flow equation in porous media. <i>Results in Physics</i> , 2017 , 7, 2432-2438	3.7	25
157	Generalized fractional logistic map encryption system based on FPGA. <i>AEU - International Journal of Electronics and Communications</i> , 2017 , 80, 114-126	2.8	63
156	Elmore delay in the fractional order domain 2017 ,		1
155	Fractional-order mathematical model for Chronic Myeloid Leukaemia 2017 ,		6

154	FPGA implementation of fractional-order integrator and differentiator based on Gr̄wald Letnikov's definition 2017 ,		5
153	Fractional-Order and Memristive Nonlinear Systems: Advances and Applications. <i>Complexity</i> , 2017 , 2017, 1-2	1.6	17
152	Symmetric encryption algorithms using chaotic and non-chaotic generators: A review. <i>Journal of Advanced Research</i> , 2016 , 7, 193-208	13	61
151	FPGA realization of ALU for mobile GPU 2016 ,		1
150	Charging and discharging RC circuit under Riemann-Liouville and Caputo fractional derivatives 2016 ,		6
149	Power and energy analysis of fractional-order electrical energy storage devices. <i>Energy</i> , 2016 , 111, 785-793	7.3	78
148	Fractional-order mutual inductance: analysis and design. <i>International Journal of Circuit Theory and Applications</i> , 2016 , 44, 85-97	2	42
147	On The Optimization of Fractional Order Low-Pass Filters. <i>Circuits, Systems, and Signal Processing</i> , 2016 , 35, 2017-2039	2.2	73
146	Comparison and Database Development of Four Recent ASM3 Model Extensions. <i>Journal of Environmental Engineering, ASCE</i> , 2016 , 142, 04016021	2	2
145	An optimal linear system approximation of nonlinear fractional-order memristor-capacitor charging circuit. <i>Microelectronics Journal</i> , 2016 , 51, 58-66	1.8	14
144	Fractional Order Oscillator Design Based on Two-Port Network. <i>Circuits, Systems, and Signal Processing</i> , 2016 , 35, 3086-3112	2.2	38
143	Optimization of Cadmium (CD(2+)) removal from aqueous solutions by novel biosorbent. <i>International Journal of Phytoremediation</i> , 2016 , 18, 619-25	3.9	42
142	Fractional-Order Two-Port Networks. <i>Mathematical Problems in Engineering</i> , 2016 , 2016, 1-5	1.1	13
141	Fundamentals of fractional-order LTI circuits and systems: number of poles, stability, time and frequency responses. <i>International Journal of Circuit Theory and Applications</i> , 2016 , 44, 2114-2133	2	18
140	Two-port two impedances fractional order oscillators. <i>Microelectronics Journal</i> , 2016 , 55, 40-52	1.8	41
139	CFOA-based fractional order simulated inductor 2016 ,		4
138	2016 ,		2
137	2016 ,		2

136	Reactance-less RM relaxation oscillator using exponential memristor model 2016,		3
135	On inverse problem of generalized synchronization between different dimensional integer-order and fractional-order chaotic systems 2016,		38
134	Generalized synchronization involving a linear combination of fractional-order chaotic systems 2016,		5
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