

Leon O Chua

List of Publications by Year in descending order

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papers

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47006

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198
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198
times ranked

5159
citing authors

#	ARTICLE	IF	CITATIONS
1	Resistance switching memories are memristors. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 102, 765-783.	2.3	1,170
2	Circuit Elements With Memory: Memristors, Memcapacitors, and Meminductors. <i>Proceedings of the IEEE</i> , 2009, 97, 1717-1724.	21.3	871
3	MEMRISTOR OSCILLATORS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2008, 18, 3183-3206.	1.7	846
4	Three Fingerprints of Memristor. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2013, 60, 3008-3021.	5.4	473
5	If itâ€™s pinched itâ€™s a memristor. <i>Semiconductor Science and Technology</i> , 2014, 29, 104001.	2.0	448
6	SIMPLEST CHAOTIC CIRCUIT. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2010, 20, 1567-1580.	1.7	432
7	Cellular neural networks with non-linear and delay-type template elements and non-uniform grids. <i>International Journal of Circuit Theory and Applications</i> , 1992, 20, 469-481.	2.0	342
8	Two centuries of memristors. <i>Nature Materials</i> , 2012, 11, 478-481.	27.5	334
9	Memristor Emulator for Memristor Circuit Applications. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2012, 59, 2422-2431.	5.4	326
10	Neural Synaptic Weighting With a Pulse-Based Memristor Circuit. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2012, 59, 148-158.	5.4	307
11	SPREAD SPECTRUM COMMUNICATION THROUGH MODULATION OF CHAOS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1993, 03, 469-477.	1.7	274
12	Memristor Bridge Synapses. <i>Proceedings of the IEEE</i> , 2012, 100, 2061-2070.	21.3	229
13	HODGKINâ€™S HUXLEY AXON IS MADE OF MEMRISTORS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012, 22, 1230011.	1.7	226
14	LOCAL ACTIVITY IS THE ORIGIN OF COMPLEXITY. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2005, 15, 3435-3456.	1.7	210
15	HYPERCHAOTIC ATTRACTORS OF UNIDIRECTIONALLY-COUPLED CHUAâ€™S CIRCUITS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1994, 04, 477-482.	1.7	182
16	Memristor, Hodgkinâ€™s Huxley, and Edge of Chaos. <i>Nanotechnology</i> , 2013, 24, 383001.	2.6	182
17	Impulsive Control and Synchronization of Nonlinear Dynamical Systems and Application to Secure Communication. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1997, 07, 645-664.	1.7	169
18	CONDITIONS FOR IMPULSIVE SYNCHRONIZATION OF CHAOTIC AND HYPERCHAOTIC SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2001, 11, 551-560.	1.7	154

#	ARTICLE	IF	CITATIONS
19	CLARIFYING CHAOS: EXAMPLES AND COUNTEREXAMPLES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1996, 06, 219-249.	1.7	140
20	Brains Are Made of Memristors. IEEE Circuits and Systems Magazine, 2014, 14, 12-36.	2.3	135
21	A Circuit-Based Learning Architecture for Multilayer Neural Networks With Memristor Bridge Synapses. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 215-223.	5.4	129
22	All-Optically Controlled Memristor for Optoelectronic Neuromorphic Computing. Advanced Functional Materials, 2021, 31, 2005582.	14.9	123
23	NEURONS ARE POISED NEAR THE EDGE OF CHAOS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250098.	1.7	121
24	ADAPTIVE SYNCHRONIZATION OF CHUA'S OSCILLATORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1996, 06, 189-201.	1.7	119
25	Chua's circuit 10 years later. International Journal of Circuit Theory and Applications, 1994, 22, 279-305.	2.0	107
26	On the universe of stable cellular neural networks. International Journal of Circuit Theory and Applications, 1992, 20, 497-517.	2.0	102
27	Finding all solutions of piecewise-linear circuits. International Journal of Circuit Theory and Applications, 1982, 10, 201-229.	2.0	93
28	Edge of Chaos and Local Activity Domain of FitzHugh-Nagumo Equation. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 211-257.	1.7	92
29	A Theoretical Approach to Memristor Devices. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2015, 5, 123-132.	3.6	92
30	Memfractance: A Mathematical Paradigm for Circuit Elements with Memory. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1430023.	1.7	90
31	Memristor-based multilevel memory. , 2010, , .		86
32	TRANSITIONS IN DYNAMICAL REGIMES BY DRIVING: A UNIFIED METHOD OF CONTROL AND SYNCHRONIZATION OF CHAOS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1993, 03, 479-483.	1.7	81
33	Cellular neural networks: Theory and circuit design. International Journal of Circuit Theory and Applications, 1992, 20, 533-553.	2.0	75
34	Vertical-Organic-Nanocrystal-Arrays for crossbar memristors with tuning switching dynamics toward neuromorphic computing. SmartMat, 2021, 2, 99-108.	10.7	73
35	Associative Learning with Temporal Contiguity in a Memristive Circuit for Large-Scale Neuromorphic Networks. Advanced Electronic Materials, 2015, 1, 1500125.	5.1	72
36	Stability analysis of generalized cellular neural networks. International Journal of Circuit Theory and Applications, 1993, 21, 1-33.	2.0	71

#	ARTICLE	IF	CITATIONS
37	Communication Systems via Chaotic Signals from a Reconstruction Viewpoint. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1997, 07, 275-286.	1.7	70
38	Chaotic Digital Code-Division Multiple Access (CDMA) Communication Systems. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1997, 07, 2789-2805.	1.7	70
39	A Universal Mutator for Transformations Among Memristor, Memcapacitor, and Meminductor. IEEE Transactions on Circuits and Systems II: Express Briefs, 2014, 61, 758-762.	3.0	66
40	Negative resistance devices. International Journal of Circuit Theory and Applications, 1983, 11, 161-186.	2.0	64
41	On Local Activity and Edge of Chaos in a NaMLab Memristor. Frontiers in Neuroscience, 2021, 15, 651452.	2.8	63
42	Composite Behavior of Multiple Memristor Circuits. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 2688-2700.	5.4	61
43	History Erase Effect in a Non-Volatile Memristor. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 389-400.	5.4	60
44	CHANNEL-INDEPENDENT CHAOTIC SECURE COMMUNICATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1996, 06, 2653-2660.	1.7	57
45	STAR CELLULAR NEURAL NETWORKS FOR ASSOCIATIVE AND DYNAMIC MEMORIES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 1725-1772.	1.7	56
46	Impasse points. Part II: Analytical aspects. International Journal of Circuit Theory and Applications, 1989, 17, 271-282.	2.0	54
47	Hysteresis in electronic circuits: A circuit theorist's perspective. International Journal of Circuit Theory and Applications, 1991, 19, 471-515.	2.0	54
48	A NONLINEAR DYNAMICS PERSPECTIVE OF WOLFRAM'S NEW KIND OF SCIENCE PART III: PREDICTING THE UNPREDICTABLE. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 3689-3820.	1.7	54
49	Global properties of continuous piecewise linear vector fields. Part I: Simplest case in \mathbb{R}^2 . International Journal of Circuit Theory and Applications, 1991, 19, 251-307.	2.0	52
50	Dynamic Behavior of Coupled Memristor Circuits. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 1607-1616.	5.4	49
51	Theoretical Foundations of Memristor Cellular Nonlinear Networks: Memcomputing With Bistable-Like Memristors. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 502-515.	5.4	49
52	NONLINEAR DYNAMICS OF A CLASS OF ANALOG-TO-DIGITAL CONVERTERS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1992, 02, 325-340.	1.7	48
53	EXPERIMENTAL STUDY OF IMPULSIVE SYNCHRONIZATION OF CHAOTIC AND HYPERCHAOTIC CIRCUITS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1999, 09, 1393-1424.	1.7	47
54	What are Memristor, Memcapacitor, and Meminductor?. IEEE Transactions on Circuits and Systems II: Express Briefs, 2015, 62, 402-406.	3.0	47

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55	MEMRISTOR HAMILTONIAN CIRCUITS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 2395-2425.	1.7	46
56	Theoretical Foundations of Memristor Cellular Nonlinear Networks: Stability Analysis With Dynamic Memristors. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 1389-1401.	5.4	46
57	Controlling Spiral Waves in a Model of Two-Dimensional Arrays of Chua's Circuits. Physical Review Letters, 1998, 80, 1884-1887.	7.8	44
58	Theoretical Foundations of Memristor Cellular Nonlinear Networks: A DRM ₂ -Based Method to Design Memcomputers With Dynamic Memristors. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 2753-2766.	5.4	44
59	Research Progress on Memristor: From Synapses to Computing Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 1845-1857.	5.4	44
60	A New Circuit for Emulating Memristors Using Inductive Coupling. IEEE Access, 2017, 5, 1284-1295.	4.2	43
61	Chua Corsage Memristor: Phase Portraits, Basin of Attraction, and Coexisting Pinched Hysteresis Loops. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1730011.	1.7	43
62	On the Thermal Models for Resistive Random Access Memory Circuit Simulation. Nanomaterials, 2021, 11, 1261.	4.1	39
63	A NONLINEAR DYNAMICS PERSPECTIVE OF WOLFRAM'S NEW KIND OF SCIENCE PART VI: FROM TIME-REVERSIBLE ATTRACTORS TO THE ARROW OF TIME. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 1097-1373.	1.7	37
64	A Nonlinear Dynamics Perspective of Wolfram's New Kind of Science Part II: Universal Neuron. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 2377-2491.	1.7	36
65	Microtubules as Sub-Cellular Memristors. Scientific Reports, 2020, 10, 2108.	3.3	35
66	Measuring volterra kernels III: How to estimate the highest significant order. International Journal of Circuit Theory and Applications, 1991, 19, 189-209.	2.0	34
67	Gas Discharge Lamps Are Volatile Memristors. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 2066-2073.	5.4	34
68	Generating randomness from chaos and constructing chaos with desired randomness. International Journal of Circuit Theory and Applications, 1990, 18, 215-240.	2.0	33
69	Î memristor: Real memristor found. Journal of Applied Physics, 2019, 125, 054504.	2.5	32
70	Properties of admissible symbolic sequences in a second-order digital filter with overflow nonlinearity. International Journal of Circuit Theory and Applications, 1993, 21, 299-307.	2.0	30
71	Turing Patterns in Memristive Cellular Nonlinear Networks. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 1222-1230.	5.4	30
72	How to Build a Memristive Integrate-and-Fire Model for Spiking Neuronal Signal Generation. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 4837-4850.	5.4	30

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73	Edge of Chaos Theory Resolves Smale Paradox. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 1252-1265.	5.4	28
74	Oscillator Made of Only One Memristor and One Battery. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1530010.	1.7	27
75	NbO ₂ -Mott Memristor: A Circuit- Theoretic Investigation. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 4979-4992.	5.4	27
76	A memristive circuit model for p-n junction diodes. International Journal of Circuit Theory and Applications, 1974, 2, 367-389.	2.0	26
77	A NONLINEAR DYNAMICS PERSPECTIVE OF WOLFRAM'S NEW KIND OF SCIENCE PART VIII: MORE ISLES OF EDEN. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 3741-3894.	1.7	26
78	Complete stability of autonomous reciprocal nonlinear networks. International Journal of Circuit Theory and Applications, 1978, 6, 211-241.	2.0	25
79	Global properties of continuous piecewise linear vector fields. Part II: Simplest symmetric case in \mathbb{R}^2 . International Journal of Circuit Theory and Applications, 1992, 20, 9-46.	2.0	25
80	Design of high-speed, high-density CNNs in cmos technology. International Journal of Circuit Theory and Applications, 1992, 20, 555-572.	2.0	25
81	The First Ever Real Bistable Memristors—Part I: Theoretical Insights on Local Fading Memory. IEEE Transactions on Circuits and Systems II: Express Briefs, 2016, 63, 1091-1095.	3.0	25
82	Hidden Bifurcations in the Multispiral Chua Attractor. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1630039.	1.7	24
83	Global dynamics of Chua Corsage Memristor circuit family: fixed-point loci, Hopf bifurcation, and coexisting dynamic attractors. Nonlinear Dynamics, 2020, 99, 3169-3196.	5.2	22
84	Analog Neural Computing With Super-Resolution Memristor Crossbars. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 4470-4481.	5.4	22
85	The First Ever Real Bistable Memristors—Part II: Design and Analysis of a Local Fading Memory System. IEEE Transactions on Circuits and Systems II: Express Briefs, 2016, 63, 1096-1100.	3.0	21
86	Parasitic Effects on Memristor Dynamics. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1630014.	1.7	21
87	Canonical piecewise-linear analysis: Generalized breakpoint hopping algorithm. International Journal of Circuit Theory and Applications, 1986, 14, 35-52.	2.0	20
88	CNN: A PARADIGM FOR COMPLEXITY. World Scientific Series on Nonlinear Science, Series A, 1999, , 529-837.	0.0	20
89	RECONSTRUCTION AND SYNCHRONIZATION OF HYPERCHAOTIC CIRCUITS VIA ONE STATE VARIABLE. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 2069-2085.	1.7	20
90	Transient Behaviors of Multiple Memristor Circuits Based on Flux Charge Relationship. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1430006.	1.7	20

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91	Fractional memristor. Applied Physics Letters, 2017, 111, .	3.3	20
92	Experimental evaluation of the dynamic route map in the reset transition of memristive ReRAMs. Chaos, Solitons and Fractals, 2020, 139, 110288.	5.1	20
93	Non-linear op-amp circuits: Existence and uniqueness of solution by inspection. International Journal of Circuit Theory and Applications, 1984, 12, 145-173.	2.0	19
94	High-speed nonlinear circuit models for $\langle i \rangle$ junction diodes. International Journal of Circuit Theory and Applications, 1988, 16, 157-190.	2.0	19
95	A CNN handwritten character recognizer. International Journal of Circuit Theory and Applications, 1992, 20, 601-612.	2.0	19
96	ARNOLD'S TONGUES, DEVIL'S STAIRCASE, AND SELF-SIMILARITY IN THE DRIVEN CHUA'S CIRCUIT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1994, 04, 1743-1753.	1.7	19
97	EXACT SYNCHRONIZATION OF MISMATCHED CHAOTIC SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1996, 06, 569-580.	1.7	19
98	PRACTICAL STABILITY OF IMPULSIVE SYNCHRONIZATION BETWEEN TWO NONAUTONOMOUS CHAOTIC SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2000, 10, 859-867.	1.7	19
99	A NONLINEAR DYNAMICS PERSPECTIVE OF WOLFRAM'S NEW KIND OF SCIENCE PART IX: QUASI-ERGODICITY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 2487-2642.	1.7	19
100	A Circuit-Based Neural Network with Hybrid Learning of Backpropagation and Random Weight Change Algorithms. Sensors, 2017, 17, 16.	3.8	19
101	ON THE GENERALITY OF THE UNFOLDED CHUA'S CIRCUIT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1996, 06, 801-832.	1.7	18
102	Third-Order Memristive Morris-Lecar Model of Barnacle Muscle Fiber. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1730015.	1.7	18
103	Transfer maps and return maps for piecewise-linear three-region dynamical systems. International Journal of Circuit Theory and Applications, 1987, 15, 23-49.	2.0	17
104	EXPERIMENTAL STUDY OF FORCED CHUA'S OSCILLATOR. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1994, 04, 1721-1742.	1.7	17
105	TIME-DELAYED IMPULSIVE CONTROL OF CHAOTIC HYBRID SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 1091-1104.	1.7	17
106	The overdamped double-scroll family. Part I: Piecewise-linear geometry and normal form. International Journal of Circuit Theory and Applications, 1988, 16, 233-302.	2.0	16
107	TESTING FOR LOCAL ACTIVITY AND EDGE OF CHAOS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 1495-1591.	1.7	16
108	Neuron Model with Simplified Memristive Ionic Channels. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1530017.	1.7	16

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109	Memristive Model of the Barnacle Giant Muscle Fibers. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1630001.	1.7	16
110	PMED-Net: Pyramid Based Multi-Scale Encoder-Decoder Network for Medical Image Segmentation. IEEE Access, 2021, 9, 55988-55998.	4.2	16
111	COMPLEXITY OF REACTION-DIFFUSION CNN. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 2499-2527.	1.7	15
112	Dynamics of Hamiltonian Systems and Memristor Circuits. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1730005.	1.7	15
113	TOPOLOGICAL ANALYSIS OF CHAOTIC SOLUTION OF A THREE-ELEMENT MEMRISTIVE CIRCUIT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 3819-3827.	1.7	14
114	Morris-Lecar model of third-order barnacle muscle fiber is made of volatile memristors. Science China Information Sciences, 2018, 61, 1.	4.3	14
115	Hodgkin-Huxley equations implies Edge of Chaos Kernel. Japanese Journal of Applied Physics, 2022, 61, SM0805.	1.5	14
116	High-order non-linear circuit elements: Circuit-theoretic properties. International Journal of Circuit Theory and Applications, 1983, 11, 187-206.	2.0	13
117	Hopf bifurcation via Volterra series. IEEE Transactions on Automatic Control, 1983, 28, 42-53.	5.7	13
118	Multimode oscillator analysis via integral manifolds part I: Non-resonant case. International Journal of Circuit Theory and Applications, 1988, 16, 25-58.	2.0	13
119	Error Performance of Chaotic Digital Code-Division Multiple Access (CDMA) Systems. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 2047-2059.	1.7	13
120	HOPF BIFURCATIONS AND DEGENERACIES IN CHUA'S CIRCUIT - A PERSPECTIVE FROM A FREQUENCY DOMAIN APPROACH. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1999, 09, 295-303.	1.7	13
121	ADVANCED IMAGE PROCESSING CELLULAR NEURAL NETWORKS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 1109-1150.	1.7	13
122	Awakening dynamics via passive coupling and synchronization mechanism in oscillatory cellular neural/nonlinear networks. International Journal of Circuit Theory and Applications, 2008, 36, 525-553.	2.0	13
123	Analog Self-Timed Programming Circuits for Aging Memristors. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1133-1137.	3.0	13
124	ANALOGUE COMBINATORICS AND CELLULAR AUTOMATA - KEY ALGORITHMS AND LAY-OUT DESIGN. International Journal of Circuit Theory and Applications, 1996, 24, 145-164.	2.0	12
125	FROM ALMOST PERIODIC TO CHAOTIC: THE FUNDAMENTAL MAP. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1996, 06, 1111-1125.	1.7	12
126	Efficient solution of the variational equation for piecewise-linear differential equations. International Journal of Circuit Theory and Applications, 1986, 14, 305-314.	2.0	10

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127	CNN Genes for One-Dimensional Cellular Automata: A Multi-Nested Piecewise-Linear Approach. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 1987-2001.	1.7	10
128	A NONLINEAR DYNAMICS PERSPECTIVE OF WOLFRAM'S NEW KIND OF SCIENCE PART XI: PERIOD-2 RULES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 1751-1930.	1.7	10
129	A unified framework for multilayer high order CNN. International Journal of Circuit Theory and Applications, 1998, 26, 567-592.	2.0	9
130	LOCAL ACTIVITY CRITERIA FOR DISCRETE-MAP CNN. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 1227-1272.	1.7	9
131	IMAGE PROCESSING AND SELF-ORGANIZING CNN. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 2939-2958.	1.7	9
132	Memristor circuit for artificial synaptic weighting of pulse inputs. , 2012, , .		9
133	Hearts are Poised Near the Edge of Chaos. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2030023.	1.7	9
134	Implementation of Neuro-Memristive Synapse for Long-and Short-Term Bio-Synaptic Plasticity. Sensors, 2021, 21, 644.	3.8	9
135	Memristor bridge circuit for neural synaptic weighting. , 2012, , .		9
136	Multimode oscillator analysis via integral manifolds part II: Resonant case. International Journal of Circuit Theory and Applications, 1988, 16, 59-92.	2.0	8
137	EMERGENCE OF UNICELLULAR ORGANISMS FROM A SIMPLE GENERALIZED CELLULAR AUTOMATA. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1999, 09, 1219-1236.	1.7	8
138	Taming Spatiotemporal Chaos in Forced Memristive Arrays. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 2947-2954.	3.1	8
139	A Compact and Continuous Reformulation of the Strachan TaO _x Memristor Model With Improved Numerical Stability. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 1266-1277.	5.4	8
140	A new approach to overcome the overflow problem in computer-aided analysis of nonlinear resistive circuits. International Journal of Circuit Theory and Applications, 1975, 3, 261-284.	2.0	7
141	Bifurcation analysis of a cusp-constrained piecewise-linear circuit. International Journal of Circuit Theory and Applications, 1989, 17, 283-346.	2.0	7
142	SYNCHRONIZING NONAUTONOMOUS CHAOTIC SYSTEMS WITHOUT PHASE-LOCKING. Journal of Circuits, Systems and Computers, 1996, 06, 227-241.	1.5	7
143	DIFFERENCE EQUATIONS FOR CELLULAR AUTOMATA. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 805-830.	1.7	7
144	EVALUATION OF A CONTINUOUS VALUED CHAOTIC SPREADER USED IN A CHAOTIC DIGITAL CODE-DIVISION MULTIPLE ACCESS ((CD)2MA) SYSTEM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2000, 10, 1933-1950.	1.7	6

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145	Road Boundary Detection Based on the Dynamic Programming and the Randomized Hough Transform. , 2007, , .		6
146	A NONLINEAR DYNAMICS PERSPECTIVE OF WOLFRAM'S NEW KIND OF SCIENCE. PART X: PERIOD-1 RULES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 1425-1654.	1.7	6
147	Design of a Low-Frequency Oscillator with PTC Memristor and an Inductor. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1630021.	1.7	6
148	Cyclic voltammetry of volatile memristors in the Venus flytrap: short-term memory. Functional Plant Biology, 2021, 48, 567.	2.1	6
149	A unified theory of symmetry for nonlinear multiport and multiterminal resistors. International Journal of Circuit Theory and Applications, 1979, 7, 337-371.	2.0	5
150	HORSESHOES IN THE TWIST-AND-FLIP MAP. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1991, 01, 235-252.	1.7	5
151	Multilevel and non-ideal quantization in $\hat{\alpha} \hat{\Gamma}$ modulation. International Journal of Circuit Theory and Applications, 1993, 21, 61-83.	2.0	5
152	SPREAD SPECTRUM COMMUNICATION THROUGH MODULATION OF CHAOS IN CHUA'S CIRCUIT. World Scientific Series on Nonlinear Science, Series B, 1993, , 379-394.	0.2	5
153	A NONLINEAR DYNAMICS PERSPECTIVE OF WOLFRAM'S NEW KIND OF SCIENCE PART XIV: MORE BERNOULLI $\hat{\Gamma}$ -SHIFT RULES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 2253-2425.	1.7	5
154	Editorial Special Issue for 50th Birthday of Memristor Theory and Application of Neuromorphic Computing Based on Memristor-Part I. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 4417-4418.	5.4	5
155	Experimental validation of state equations and dynamic route maps for phase change memristive devices. Scientific Reports, 2022, 12, 6488.	3.3	5
156	Topological conditions for a resistive circuit containing negative non-linear resistors to have a unique solution. International Journal of Circuit Theory and Applications, 1987, 15, 193-210.	2.0	4
157	CHAOS OR TURBULENCE?. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1992, 02, 1005-1009.	1.7	4
158	An IC diode for Chua's circuit. International Journal of Circuit Theory and Applications, 1993, 21, 309-316.	2.0	4
159	DERIVATIVES FOR THE STABLE AND UNSTABLE MANIFOLDS OF A Cr Diffeomorphism of R^2 . International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1993, 03, 1601-1605.	1.7	4
160	EXPERIMENTAL CONTROL OF CHAOS IN CHUA'S CIRCUIT VIA TUNNELS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1994, 04, 741-750.	1.7	4
161	ON THE GENERATION OF SCROLL WAVES IN A THREE-DIMENSIONAL DISCRETE ACTIVE MEDIUM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1995, 05, 313-320.	1.7	4
162	BOIDS CONTROL OF CHAOS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 427-444.	1.7	4

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