Memristor-The missing circuit element

IEEE Transactions on Circuit Theory 18, 507-519

DOI: 10.1109/tct.1971.1083337

Citation Report

#	Article	IF	CITATIONS
1	Formulation of normal form equations of nonlinear networks containing memristors and coupled elements. IEEE Transactions on Circuit Theory, 1972, 19, 585-594.	0.6	6
2	A theory of algebraic n-ports. IEEE Transactions on Circuit Theory, 1973, 20, 370-382.	0.6	41
3	Some aspects of the theory of nonlinear networks. Proceedings of the IEEE, 1973, 61, 1092-1113.	16.4	53
4	Electronic realization of non-energic linear and non-linear network elementsâ€. International Journal of Electronics, 1973, 34, 237-240.	0.9	2
5	Network thermodynamics: dynamic modelling of biophysical systems. Quarterly Reviews of Biophysics, 1973, 6, 1-134.	2.4	336
6	Characterization of time-invariant network elements. Journal of the Franklin Institute, 1974, 298, 1-7.	1.9	0
7	A memristive circuit model for p-n junction diodes. International Journal of Circuit Theory and Applications, 1974, 2, 367-389.	1.3	26
8	Dimension of N-ports. IEEE Transactions on Circuits and Systems, 1974, 21, 412-416.	0.9	8
9	Memristive devices and systems. Proceedings of the IEEE, 1976, 64, 209-223.	16.4	1,997
10	LSI in Watches. , 1976, , .		4
11	A view of dataflow*. , 1979, , .		7
12	The anti-Lagrangian equations: A missing network description. Journal of the Franklin Institute, 1979, 307, 183-191.	1.9	6
13			
	Device modeling via nonlinear circuit elements. IEEE Transactions on Circuits and Systems, 1980, 27, 1014-1044.	0.9	252
14		0.9	252 7
14	Linear and nonlinear mutators derived from GIC-type configurations. IEEE Transactions on Circuits		
	Linear and nonlinear mutators derived from GIC-type configurations. IEEE Transactions on Circuits and Systems, 1981, 28, 165-168. Correction to 'Geometric Properties of Resistive Nonlinear n-Ports:Transversality, Structural	0.9	7
15	Linear and nonlinear mutators derived from GIC-type configurations. IEEE Transactions on Circuits and Systems, 1981, 28, 165-168. Correction to 'Geometric Properties of Resistive Nonlinear n-Ports:Transversality, Structural Stability, Reciprocity and Anti-Reciprocity'. IEEE Transactions on Circuits and Systems, 1981, 28, 168-168. State space theory of nonlinear two- terminal higher-order elements. Journal of the Franklin	0.9	7 O

#	Article	IF	Citations
19	The nature of data â€" From measurements to systems. BIT Numerical Mathematics, 1985, 25, 24-50.	1.0	6
20	Realization of new mutually coupled circuits using mutators. International Journal of Electronics, 1985, 58, 477-485.	0.9	15
21	The set of lagrange and routh formulations for nonâ€linear networks. International Journal of Circuit Theory and Applications, 1988, 16, 129-145.	1.3	3
22	Highâ€speed nonâ€linear circuit models for <i>pâ€n</i> junction diodes. International Journal of Circuit Theory and Applications, 1988, 16, 157-190.	1.3	19
23	Autonomous cellular neural networks: a unified paradigm for pattern formation and active wave propagation. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1995, 42, 559-577.	0.1	227
24	Why should we introduce dynamic and functional nodes in bond graphs?. , 0, , .		0
25	A new wave description for nonlinear elements. , 0, , .		7
26	Visualization of Complex Physical Phenomena and Mathematical Objects in Virtual Environment. , 1997 , , .		0
27	Toward nonlinear wave digital filters. IEEE Transactions on Signal Processing, 1999, 47, 1654-1668.	3.2	45
28	A Bernoulli Cell-Based Investigation of the Non-Linear Dynamics in Log-Domain Structures. Analog Integrated Circuits and Signal Processing, 2000, 22, 127-146.	0.9	24
29	SYNTHESIS OF LINEAR AND NONLINEAR CIRCUITS. , 2000, , .		1
30	Generalized quasi-TEM approximation and telegrapher equations for nonreciprocal ferrite-loaded transmission lines., 2000, 10, 225-227.		6
31	Object-based sound synthesis for virtual environments-using musical acoustics. IEEE Signal Processing Magazine, 2000, 17, 37-51.	4.6	20
32	Theory of magnetoelectric multiconductor transmission lines with application to chiral and gyrotropic lines. Microwave and Optical Technology Letters, 2003, 38, 3-9.	0.9	5
33	A dual relation between port-Hamiltonian systems and the Brayton–Moser equations for nonlinear switched RLC circuits. Automatica, 2003, 39, 969-979.	3.0	30
34	Nonlinear circuit foundations for nanodevices, part I: the four-element torus. Proceedings of the IEEE, 2003, 9, 1830-1859.	16.4	223
35	Reproducible resistive switching effect for memory applications in heterocontacts based on strongly correlated electron systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 6681-6686.	0.9	23
36	The missing memristor found. Nature, 2008, 453, 80-83.	13.7	9,354

#	Article	IF	Citations
37	The fourth circuit element. Nature, 2008, 455, E13-E13.	13.7	35
38	The fourth element. Nature, 2008, 453, 42-43.	13.7	459
39	Natural ups and downs. Nature, 2008, 453, 43-45.	13.7	20
40	Memristive switching mechanism for metal/oxide/metal nanodevices. Nature Nanotechnology, 2008, 3, 429-433.	15.6	2,578
41	Self-Assembled Nanowire Arrays of Metal–Insulator–Semiconductor Diodes Exhibiting S-Type Nonlinearity. IEEE Nanotechnology Magazine, 2008, 7, 800-805.	1.1	0
42	Polymeric electrochemical element for adaptive networks: Pulse mode. Journal of Applied Physics, 2008, 104, .	1.1	50
43	MEMRISTOR OSCILLATORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 3183-3206.	0.7	846
44	Spin memristive systems: Spin memory effects in semiconductor spintronics. Physical Review B, 2008, 78, .	1.1	162
45	Models and modeling: be careful and use your imagination. IEEE Antennas and Propagation Magazine, 2008, 50, 215-221.	1.2	7
46	Fast resistance switching of TiO <inf>2</inf> and MSQ thin films for non-volatile memory applications (RRAM)., 2008,,.		23
47	Testing ourselves. IEEE Antennas and Propagation Magazine, 2008, 50, 222-223.	1.2	0
48	Commentary: Memristor and memristive switch mechanism. Journal of Nanophotonics, 2008, 2, 020304.	0.4	5
49	Computational thinking and thinking about computing. Parallel and Distributed Processing Symposium (IPDPS), Proceedings of the International Conference on, 2008, , .	1.0	73
50	Computational thinking and thinking about computing. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 3717-3725.	1,6	975
51	Simulation and Optimization of the Power Distribution Network in VLSI Circuits., 2009, , .		0
52	Architecture of a Massively Parallel Processing Nano-Brain Operating 100 Billion Molecular Neurons Simultaneously. International Journal of Nanotechnology and Molecular Computation, 2009, 1, 50-80.	0.3	8
53	Memristance can explain Spike-Time-Dependent-Plasticity in Neural Synapses. Nature Precedings, 0, , .	0.1	128
54	Experimental demonstration of associative memory with memristive neural networks. Nature Precedings, 2009, , .	0.1	20

#	Article	IF	Citations
55	Transmission characteristics study of memristors based Op-Amp circuits. , 2009, , .		8
56	Image encryption based on chaos with PWL memristor in Chua's circuit. , 2009, , .		10
57	Memristor-based stored-reference receiver–the UWB solution?. Electronics Letters, 2009, 45, 713.	0.5	54
59	Electrical transport and thermometry of electroformed titanium dioxide memristive switches. Journal of Applied Physics, 2009, 106, .	1.1	87
60	A memristor based chaotic oscillator. , 2009, , .		5
61	Electrical field induced precipitation reaction and percolation in Ag30Ge17Se53 amorphous electrolyte films. Applied Physics Letters, 2009, 94, 162112.	1.5	25
62	A hybrid nanomemristor/transistor logic circuit capable of self-programming. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1699-1703.	3.3	242
63	Compact floating-gate learning array with STDP. , 2009, , .		9
64	Impulsive stabilization for a modified Chua's chaotic system with memoristor., 2009,,.		0
65	Memristor-Based Chaotic Circuits. IETE Technical Review (Institution of Electronics and) Tj ETQq1 1 0.784314 rg	BT /Overlo	ock 10 Tf 50 275
66	Chaos generator based on a PWL memristor., 2009,,.		4
67	A PWL model of memristor and its application example. , 2009, , .		11
68	Structural and chemical characterization of TiO2memristive devices by spatially-resolved NEXAFS. Nanotechnology, 2009, 20, 485701.	1.3	58
69	DEVELOPMENT OF THE NONLINEAR DYNAMICAL SYSTEMS THEORY FROM RADIO ENGINEERING TO ELECTRONICS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 2131-2163.	0.7	7
70	Introduction to Nanotechnology: implementation of a cooperative program for gifted and talented elementary school children., 2009,,.		1
71	Analogue Fractional-Order Generalized Memristive Devices. , 2009, , .		28
72	Phase-change oscillations in silicon microwires. Applied Physics Letters, 2009, 94, .	1.5	14
73	DAE-Based Modeling of Electrical Circuits: Classical Methods Revisited and Recent Results., 2009,,.		O

#	Article	IF	CITATIONS
74	Nonvolatile memristor memory., 2009,,.		212
75	Four-dimensional address topology for circuits with stacked multilayer crossbar arrays. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20155-20158.	3.3	134
76	Circuit Elements With Memory: Memristors, Memcapacitors, and Meminductors. Proceedings of the IEEE, 2009, 97, 1717-1724.	16.4	871
77	Putting Memory Into Circuit Elements: Memristors, Memcapacitors, and Meminductors [Point of View]. Proceedings of the IEEE, 2009, 97, 1371-1372.	16.4	64
78	Redoxâ€Based Resistive Switching Memories – Nanoionic Mechanisms, Prospects, and Challenges. Advanced Materials, 2009, 21, 2632-2663.	11.1	4,447
79	A Family of Electronically Reconfigurable Nanodevices. Advanced Materials, 2009, 21, 3754-3758.	11.1	213
80	The speed of dissemination of information about the realization of the fourth passive electronic circuit element measured by Google hits. Scientometrics, 2009, 81, 699-702.	1.6	1
81	Coupled Ionic and Electronic Transport Model of Thinâ€Film Semiconductor Memristive Behavior. Small, 2009, 5, 1058-1063.	5.2	286
82	Resistive Switching and Metallicâ€Filament Formation in Ag ₂ S Nanowire Transistors. Small, 2009, 5, 2377-2381.	5.2	57
83	Mittag–Leffler stability of fractional order nonlinear dynamic systems. Automatica, 2009, 45, 1965-1969.	3.0	1,330
84	Digital logic implementation in memristor-based crossbars. , 2009, , .		28
85	High-Density Crossbar Arrays Based on a Si Memristive System. Nano Letters, 2009, 9, 870-874.	4.5	507
86	A memristor-based multicarrier UWB receiver. , 2009, , .		7
87	Memristive switching of MgO based magnetic tunnel junctions. Applied Physics Letters, 2009, 95, .	1.5	69
88	Memristive properties of electro-osmosis in human sweat ducts. IFMBE Proceedings, 2009, , 696-698.	0.2	8
89	Multidomain modeling of nonlinear networks and systems. IEEE Control Systems, 2009, 29, 28-59.	1.0	104
90	Fractional-order memristive systems. , 2009, , .		26
91	Nanoscale optoelectronic switches and logic devices. Nanoscale, 2009, 1, 299.	2.8	74

#	Article	IF	Citations
92	Controlling chaos in a memristor-based Chua's circuit. , 2009, , .		6
93	Memristive model of amoeba learning. Physical Review E, 2009, 80, 021926.	0.8	374
94	The elusive memristor: properties of basic electrical circuits. European Journal of Physics, 2009, 30, 661-675.	0.3	738
95	The mechanism of electroforming of metal oxide memristive switches. Nanotechnology, 2009, 20, 215201.	1.3	699
96	Metamaterials face-off [Speaker's Corner]. IEEE Microwave Magazine, 2009, 10, 8-42.	0.7	9
97	Organic Memristors and Adaptive Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 210-221.	0.2	3
98	SPICE modeling of memristive, memcapacitative and meminductive systems., 2009,,.		129
99	Switching dynamics in titanium dioxide memristive devices. Journal of Applied Physics, 2009, 106, .	1.1	609
100	Writing to and reading from a nano-scale crossbar memory based on memristors. Nanotechnology, 2009, 20, 425204.	1.3	212
101	Atomistic Origins of Molecular Memristors. Journal of Physical Chemistry C, 2009, 113, 20713-20718.	1.5	20
102	The memristive grid outperforms the resistive grid for edge preserving smoothing. , 2009, , .		11
103	Approximated SPICE model for memristor. , 2009, , .		37
104	Electrochemical Control of the Conductivity in an Organic Memristor: A Time-Resolved X-ray Fluorescence Study of Ionic Drift as a Function of the Applied Voltage. ACS Applied Materials & Samp; Interfaces, 2009, 1, 2115-2118.	4.0	92
105	Solution-processed flexible memristors. , 2009, , .		4
106	FPGA Implementation of Izhikevich Spiking Neural Networks for Character Recognition. , 2009, , .		60
107	Stateful implication logic with memristors. , 2009, , .		164
108	A simple memristor based chaotic oscillator. , 2009, , .		3
109	On SPICE macromodelling of TiO2 memristors. Electronics Letters, 2009, 45, 377.	0.5	182

#	Article	IF	Citations
110	Spintronic Memristor Through Spin-Torque-Induced Magnetization Motion. IEEE Electron Device Letters, 2009, 30, 294-297.	2.2	314
111	Study of filter characteristics based on PWL memristor. , 2009, , .		4
112	Phase-transition driven memristive system. Applied Physics Letters, 2009, 95, .	1.5	322
113	The fourth element: Insights into the memristor. , 2009, , .		24
114	Nonvolatile unipolar memristive switching mechanism of pulse laser ablated NiO films. , 2009, , .		2
115	Phenomenological considerations of resistively switching TiO <inf>2</inf> in nano crossbar arrays. , 2009, , .		3
116	Memristor based high linear range differential pair., 2009,,.		18
117	Memristor-based fine resolution programmable resistance and its applications. , 2009, , .		49
118	Input - Output linearization of memristive systems. , 2009, , .		9
119	Compact modeling and corner analysis of spintronic memristor. , 2009, , .		48
120	Force modulation of tunnel gaps in metal oxide memristive nanoswitches. Applied Physics Letters, 2009, 95, 113503.	1.5	38
121	Effects of proton and ion beam irradiation on titanium dioxide memristors. , 2009, , .		O
122	Optimization of an organic memristor as an adaptive memory element. Journal of Applied Physics, 2009, 105, .	1.1	121
123	Origin of Nanoscale Phase Stability Reversals in Titanium Oxide Polymorphs. Journal of Physical Chemistry C, 2009, 113, 4240-4245.	1.5	62
124	Nanoparticle Assemblies as Memristors. Nano Letters, 2009, 9, 2229-2233.	4.5	158
125	MEMRISTOR CELLULAR AUTOMATA AND MEMRISTOR DISCRETE-TIME CELLULAR NEURAL NETWORKS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 3605-3656.	0.7	282
126	Chaos in memristor based Murali-Lakshmanan-Chua circuit. , 2009, , .		2
128	Memristor fabrication and characterization: an adaptive coded aperture imaging and sensing opportunity. Proceedings of SPIE, 2010, , .	0.8	1

#	Article	IF	Citations
129	Memristance in human skin. Journal of Physics: Conference Series, 2010, 224, 012071.	0.3	26
130	Memristive behaviors of LiNbO3 ferroelectric diodes. Applied Physics Letters, 2010, 97, 012902.	1.5	40
131	Digital Logic Implementation in Memristor-Based Crossbars - A Tutorial. , 2010, , .		25
132	Practical Approach to Programmable Analog Circuits With Memristors. IEEE Transactions on Circuits and Systems I: Regular Papers, 2010, 57, 1857-1864.	3.5	503
133	A review on memristive devices and applications. , 2010, , .		62
134	Nanoscale memory devices. Nanotechnology, 2010, 21, 412001.	1.3	97
135	Nanoscale Memristor Device as Synapse in Neuromorphic Systems. Nano Letters, 2010, 10, 1297-1301.	4.5	3,507
136	Cost-effective fabrication of nanoscale electrode memristors with reproducible electrical response. Micro and Nano Letters, 2010, 5, 91.	0.6	12
137	The Atomic Switch. Proceedings of the IEEE, 2010, 98, 2228-2236.	16.4	60
138	Direct Identification of the Conducting Channels in a Functioning Memristive Device. Advanced Materials, 2010, 22, 3573-3577.	11.1	307
139	Diffusion of Adhesion Layer Metals Controls Nanoscale Memristive Switching. Advanced Materials, 2010, 22, 4034-4038.	11.1	104
140	Coexistence of Filamentary and Homogeneous Resistive Switching in Feâ€Doped SrTiO ₃ Thinâ€Film Memristive Devices. Advanced Materials, 2010, 22, 4819-4822.	11.1	334
141	Role of the solid electrolyte composition on the performance of a polymeric memristor. Materials Science and Engineering C, 2010, 30, 407-411.	3.8	22
142	Bio-inspired adaptive networks based on organic memristors. Nano Communication Networks, 2010, 1, 108-117.	1.6	48
143	Experimental demonstration of associative memory with memristive neural networks. Neural Networks, 2010, 23, 881-886.	3.3	924
144	A light-emitting memristor. Organic Electronics, 2010, 11, 150-153.	1.4	44
145	Memristive devices based on solutionâ€processed ZnO nanocrystals. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 484-487.	0.8	38
146	Voltageâ€Dependent Lowâ€Field Bulk Resistivity in BaTiO ₃ :Zn Ceramics. Journal of the American Ceramic Society, 2010, 93, 500-505.	1.9	35

#	ARTICLE	IF	CITATIONS
147	â€~Memristive' switches enable â€~stateful' logic operations via material implication. Nature, 2010, 464, 873-876.	13.7	1,828
148	ELECTRIC CHARGES THAT BEHAVE AS MAGNETIC MONOPOLES. Progress in Electromagnetics Research Letters, 2010, 18, 19-28.	0.4	4
149	The effects of switching time and SrTiO3â^xNynanostructures on the operation of Al/SrTiO3â^xNy/Al memristors. IOP Conference Series: Materials Science and Engineering, 2010, 8, 012035.	0.3	6
150	Efficient Image Encryption Using a Chaos-based PWL Memristor. IETE Technical Review (Institution of) Tj ETQq1 1	0,784314 2.1	rgBT /Over
151	Memristor-based pattern recognition for image processing: an adaptive coded aperture imaging and sensing opportunity. Proceedings of SPIE, 2010, , .	0.8	7
152	Two memristors suffice to compute all Boolean functions. Electronics Letters, 2010, 46, 230.	0.5	87
153	Fuzzy Modeling and Impulsive Control of a Memristor-Based Chaotic System. Chinese Physics Letters, 2010, 27, 020501.	1.3	24
154	Bond Graph Based Physical Systems Modelling. , 2010, , 17-88.		2
155	Passive switching of electromagnetic devices with memristors. Applied Physics Letters, 2010, 96, 073504.	1.5	27
156	The static and dynamic behaviors of resistive random access memory and its potential applications as a memristor. , $2010, $, .		2
157	Optoelectronic and all-optical multiple memory states in vanadium dioxide. Journal of Applied Physics, 2010, 108, .	1.1	91
158	Chaos in the fractional order memristor based MLC system with cubic nonlinearrity. , 2010, , .		O
159	SPICE simulation of nanoscale non-crystalline silicon TFTs in spiking neuron circuits. , 2010, , .		11
160	Resonanting Analysis on Memresistor, Inductor and Iapcitor Series Circuit. , 2010, , .		O
161	A chaotic memristor circuit., 2010,,.		2
162	Transient chaos in smooth memristor oscillator. Chinese Physics B, 2010, 19, 030510.	0.7	113
163	Chaotic oscillator based on voltage-controlled memcapacitor., 2010,,.		3
164	Hysteresis switching loops in Ag-manganite memristive interfaces. Journal of Applied Physics, 2010, 107, 093719.	1.1	33

#	Article	IF	CITATIONS
165	Steady periodic memristor oscillator with transient chaotic behaviours. Electronics Letters, 2010, 46, 228.	0.5	138
166	On Development and Expectation of Memristor. , 2010, , .		2
167	Hysteretic current-voltage characteristic in polycrystalline ceramic ferrites. Applied Physics Letters, 2010, 97, 122501.	1.5	5
168	Impulsive modeling of memristor oscillator and its control. , 2010, , .		1
169	The role of defects in resistively switching chalcogenides. International Journal of Materials Research, 2010, 101, 182-198.	0.1	12
170	Memristive based oscillatory associative and dynamic memories. , 2010, , .		7
171	Memristor system properties and its design applications to circuits such as nonvolatile memristor memories. , 2010, , .		9
172	A multivalued storage system using memristor. , 2010, , .		5
173	Spintronic memristor devices and application. , 2010, , .		6
174	Multi-bit N-Array Asynchronous Counting Circuit Based on Memristor. , 2010, , .		0
175	CIRCUIT MIMICKING TiO₂ MEMRISTOR: A PLUG AND PLAY KIT TO UNDERSTAND THE FOURTH PASSIVE ELEMENT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 2537-2545.	0.7	26
176	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.	0.7	14
177	CHAOS AT SCHOOL: CHUA'S CIRCUIT FOR STUDENTS IN JUNIOR AND SENIOR HIGH SCHOOL. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 1-28.	0.7	51
178	Memristor-based arithmetic., 2010,,.		44
179	Hybrid CMOS/memristor circuits., 2010,,.		57
180	Fabrication and electrical characteristics of memristors with TiO <inf>2</inf> /TiO <inf>2+x</inf> active layers. , 2010, , .		15
181	Chaos generator based on a memristive circuit with time-delay feedback. , 2010, , .		1
182	Compact model of memristors and its application in computing systems. , 2010, , .		3

#	Article	IF	CITATIONS
183	Impact of process variations on emerging memristor. , 2010, , .		106
184	Initial State Dependent Dynamical Behaviors in a Memristor Based Chaotic Circuit. Chinese Physics Letters, 2010, 27, 070504.	1.3	88
185	Memristive switching of single-component metallic nanowires. Nanotechnology, 2010, 21, 125204.	1.3	41
186	GENERAL SPICE MODELS FOR MEMRISTOR AND APPLICATION TO CIRCUIT SIMULATION OF MEMRISTOR-BASED SYNAPSES AND MEMORY CELLS. Journal of Circuits, Systems and Computers, 2010, 19, 407-424.	1.0	115
187	A low-cost memristor based on titanium oxide. , 2010, , .		15
188	Memristors and Bernoulli dynamics. , 2010, , .		20
189	Memristor-based multilevel memory. , 2010, , .		86
190	Mutator for transforming memristor into memcapacitor. Electronics Letters, 2010, 46, 1428.	0.5	86
191	An automatic gain control circuit with TiO <inf>2</inf> memristor variable gain amplifier. , 2010, , .		10
192	Chaotic oscillator based on current-controlled meminductor. , 2010, , .		2
193	Nanoelectronics in Radio-Frequency Technology. IEEE Microwave Magazine, 2010, 11, 119-135.	0.7	27
194	Nonvolatile and unipolar resistive switching characteristics of pulsed laser ablated NiO films. Journal of Applied Physics, 2010, 108, .	1.1	51
195	Evolution of resistive switching over bias duration of single Ag2S nanowires. Applied Physics Letters, 2010, 96, .	1.5	41
196	Effect of temperature on the electrical properties of an organic memristive device. Journal of Applied Physics, 2010, 108, .	1.1	14
197	Controllable Growth of Nanoscale Conductive Filaments in Solid-Electrolyte-Based ReRAM by Using a Metal Nanocrystal Covered Bottom Electrode. ACS Nano, 2010, 4, 6162-6168.	7.3	426
198	Self-Adaptive Write Circuit for Low-Power and Variation-Tolerant Memristors. IEEE Nanotechnology Magazine, 2010, 9, 675-678.	1.1	48
199	SPICE modelling of memcapacitor. Electronics Letters, 2010, 46, 520.	0.5	82
200	Mutators simulating memcapacitors and meminductors. , 2010, , .		35

#	Article	IF	CITATIONS
201	Memristive circuits simulate memcapacitors and meminductors. Electronics Letters, 2010, 46, 517.	0.5	139
202	The fourth element: characteristics, modelling and electromagnetic theory of the memristor. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2010, 466, 2175-2202.	1.0	173
203	The Legendary IBM 1401 Data Processing System. IEEE Solid-State Circuits Magazine, 2010, 2, 28-39.	0.5	1
204	Self-Aligned Memristor Cross-Point Arrays Fabricated with One Nanoimprint Lithography Step. Nano Letters, 2010, 10, 2909-2914.	4.5	98
205	Memristors based on an organic monolayer of molecules and a thin film of solid electrolytes. , 2010, , .		2
206	Global uniform asymptotic stability of memristor-based recurrent neural networks with time delays. , 2010, , .		139
207	Cellular nanoscale network cell with memristors for local implication logic and synapses. , 2010, , .		34
208	SIMPLEST CHAOTIC CIRCUIT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 1567-1580.	0.7	432
209	Doping-Induced Conductivity Transitions in Molecular Layers of Polyaniline: Optical Studies of Electronic State Changes. Langmuir, 2010, 26, 5829-5835.	1.6	16
210	Reply to - "On the Discovery of a Polarity-Dependent Memory Switch and/or Memristor (Memory) Tj ETQq1 1 0.70 2010, 27, 181.	84314 rgl 2.1	3T /Overlock 2
211	Memristive systems analysis of 3-terminal devices. , 2010, , .		11
212	Investigation of the electroforming process in resistively switching TiO2 nanocrosspoint junctions. Applied Physics Letters, 2010, 96, .	1.5	84
213	Mechanical memory elements: Modeling of systems with position-dependent mass revisited., 2010,,.		5
214	On the Discovery of a Polarity-Dependent Memory Switch and/or Memristor (Memory Resistor). IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2010, 27, 179.	2.1	6
215	Synthesis, Characterization, and Possible Applications of ZnO Nanocrystals. Journal of Dispersion Science and Technology, 2010, 31, 1202-1207.	1.3	2
216	Memristive Behavior in Thin Anodic Titania. IEEE Electron Device Letters, 2010, 31, 737-739.	2.2	101
217	Fractional-Order Memristor-Based Chua's Circuit. IEEE Transactions on Circuits and Systems II: Express Briefs, 2010, 57, 975-979.	2.2	189
218	Nondegeneracy Conditions for Active Memristive Circuits. IEEE Transactions on Circuits and Systems II: Express Briefs, 2010, 57, 223-227.	2.2	36

#	Article	IF	CITATIONS
219	On the mathematical modeling of memristors. , 2010, , .		67
220	Reversible Resistive Switching and Multilevel Recording in La0.7Sr0.3MnO3Thin Films for Low Cost Nonvolatile Memories. Nano Letters, 2010, 10, 3828-3835.	4.5	121
221	Overview: Memristive devices, circuits and systems. , 2010, , .		8
222	FPGA based on integration of memristors and CMOS devices. , 2010, , .		31
223	Cellular neural networks with memristive cell devices. , 2010, , .		1
224	A memristor SPICE model for designing memristor circuits. , 2010, , .		66
225	Spintronic devices: From memory to memristor., 2010,,.		4
226	The application of spintronic devices in magnetic bio-sensing. , 2010, , .		6
227	Compact Models for Memristors Based on Charge-Flux Constitutive Relationships. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2010, 29, 590-598.	1.9	189
228	Macromodeling of the Memristor in SPICE. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2010, 29, 632-636.	1.9	222
229	A Parallel Direct Solver for the Simulation of Large-Scale Power/Ground Networks. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2010, 29, 636-641.	1.9	11
230	Fabrication and testing of memristive devices. , 2010, , .		5
231	Switching mechanisms in microscale memristors. Electronics Letters, 2010, 46, 63.	0.5	36
232	Practical micro/nano fabrication implementations of memristive devices. , 2010, , .		14
233	Characterization of memristive Poly-Si Nanowires via empirical physical modelling. , 2010, , .		2
234	IMPLEMENTING MEMRISTOR BASED CHAOTIC CIRCUITS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 1335-1350.	0.7	515
235	Memristive adaptive filters. Applied Physics Letters, 2010, 97, .	1.5	171
236	Analysis of dynamic linear and non-linear memristor device models for emerging neuromorphic computing hardware design. , 2010, , .		27

#	Article	IF	Citations
237	Delayed Switching in Memristors and Memristive Systems. IEEE Electron Device Letters, 2010, 31, 755-757.	2.2	57
238	Organic memristors : Basic principles. , 2010, , .		9
239	Organic memristive device and its application for the information processing. , 2010, , .		0
240	Memristor lookup table (MLUT)-based asynchronous nanowire crossbar architecture. , 2010, , .		19
241	HP Memristor mathematical model for periodic signals and DC. , 2010, , .		65
242	The memristor as controller. , 2010, , .		6
243	Array of Josephson junctions with a nonsinusoidal current-phase relation as a model of the resistive transition of unconventional superconductors. Journal of Applied Physics, 2010, 108, 123916.	1.1	7
244	HOPF BIFURCATION FROM LINES OF EQUILIBRIA WITHOUT PARAMETERS IN MEMRISTOR OSCILLATORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 437-450.	0.7	70
245	Silver chalcogenide based memristor devices. , 2010, , .		80
246	Chaos in a charge-controlled memcapacitor circuit. , 2010, , .		4
247	A new modified nodal analysis for nano-scale memristor circuit simulation. , 2010, , .		7
248	Simulated Effects of Proton and Ion Beam Irradiation on Titanium Dioxide Memristors. IEEE Transactions on Nuclear Science, 2010, 57, 1798-1804.	1.2	34
249	Arithmetic operations within memristor-based analog memory. , 2010, , .		26
250	Compact method for modeling and simulation of memristor devices: Ion conductor chalcogenide-based memristor devices. , 2010, , .		47
251	New behavioral modeling method for crossbar-based memristor., 2010,,.		3
252	Time domain oscillating poles: Stability redefined in Memristor based Wien-oscillators. , 2010, , .		15
253	Neocortical frame-free vision sensing and processing through scalable Spiking ConvNet hardware. , 2010, , .		0
254	Electronics - what should we teach and why?. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
255	Memristor based programmable threshold logic array. , 2010, , .		42
256	Memristive port-Hamiltonian Systems. Mathematical and Computer Modelling of Dynamical Systems, 2010, 16, 75-93.	1.4	31
257	Image stabilization using memristors. , 2010, , .		4
258	Si Memristive devices applied to memory and neuromorphic circuits. , 2010, , .		24
259	From Printed Circuit Boards to Systems-on-a-Chip. IEEE Circuits and Systems Magazine, 2010, 10, 19-29.	2.6	1
260	Applications of TMR devices in solid state circuits and systems. , 2010, , .		0
261	Zip nets: Efficient associative computation with binary synapses. , 2010, , .		7
262	Spintronic Memristor Temperature Sensor. IEEE Electron Device Letters, 2010, 31, 20-22.	2.2	60
263	Domain-wall spintronic memristor for capacitance and inductance sensing. , 2011, , .		2
264	Fast statistical model of TiO <inf>2</inf> thin-film memristor and design implication., 2011,,.		3
265	Chaos analysis and control in a chaotic circuit with a PWL memristor. , $2011, \ldots$		2
266	Chaos control of a memristor-based Chua's oscillator via backstepping method., 2011,,.		3
267	Tunneling atomic force microscopy characterization of cuprous oxide thin films. , 2011, , .		0
268	Challenges and trends in low-power 3D die-stacked IC designs using RAM, memristor logic, and resistive memory (ReRAM). , 2011 , , .		19
269	Langmuir–Schaefer films of a polyaniline–gold nanoparticle composite material for applications in organic memristive devices. RSC Advances, 2011, 1, 1537.	1.7	23
270	Analysis of a memristor-based switching network. , 2011, , .		6
271	Heteroclinic bifurcation in memristor oscillators., 2011,,.		1
272	Geometry variations analysis of TiO <inf>2</inf> thin-film and spintronic memristors. , 2011, , .		32

#	Article	IF	CITATIONS
273	Multi-purpose neuro-architecture with memristors., 2011,,.		4
274	State space modeling of Memristor-based Wien oscillator. , 2011, , .		9
275	A novel hybrid design of a memory cell using a memristor and ambipolar transistors. , 2011, , .		4
276	A new Cellular Nonlinear Network-based memristive chaotic circuit. , 2011, , .		o
277	Towards evolving spiking networks with memristive synapses. , 2011, , .		9
278	How to teach memristors in EE undergraduate courses. , 2011, , .		2
279	Describing function of MOM systems. , 2011, , .		0
280	Broadband Electromagnetic Radiation Modulated by Dual Memristors. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 623-626.	2.4	12
281	Learning with memristive devices: How should we model their behavior?., 2011,,.		34
282	An Approach to Tolerate Process Related Variations in Memristor-Based Applications. , 2011, , .		31
283	Hybrid Memristor-CMOS memory cell: Modeling and design. , 2011, , .		4
284	OBSERVATION OF CHAOTIC BEATS IN A DRIVEN MEMRISTIVE CHUA'S CIRCUIT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 737-757.	0.7	31
285	Mutators for transforming nonlinear resistor into memristor. , 2011, , .		28
286	Percolation in memristive networks. , 2011, , .		1
287	Si-Based Flexible Memristive Systems Constructed Using Top-Down Methods. ACS Applied Materials & Samp; Interfaces, 2011, 3, 3957-3961.	4.0	10
288	Adaptive polymeric system for Hebbian-type learning. Philosophical Magazine, 2011, 91, 2021-2027.	0.7	4
289	Unipolar memristors enable "stateful―logic operations via material implication. Applied Physics Letters, 2011, 99, 072101.	1.5	39
290	A New Memristor Based Chaotic Circuit. , 2011, , .		3

#	Article	IF	Citations
291	Teaching Memristors to EE Undergraduate Students [Class Notes]. IEEE Circuits and Systems Magazine, 2011, 11, 36-44.	2.6	19
292	Memristor Applications for Programmable Analog ICs. IEEE Nanotechnology Magazine, 2011, 10, 266-274.	1.1	308
293	A Memristor SPICE Implementation and a New Approach for Magnetic Flux-Controlled Memristor Modeling. IEEE Nanotechnology Magazine, 2011, 10, 250-255.	1.1	210
294	A memristor-based memory cell using ambipolar operation. , 2011, , .		10
295	Dynamical Properties and Design Analysis for Nonvolatile Memristor Memories. IEEE Transactions on Circuits and Systems I: Regular Papers, 2011, 58, 724-736.	3.5	263
296	Memristor: Modeling read and write operations. , 2011, , .		7
297	TiO <inf>2</inf> memristor devices. , 2011, , .		4
298	Effects of heavy ion bombardment on TiO ₂ memristor operation. Radiation Effects and Defects in Solids, 2011, 166, 1-7.	0.4	10
299	Fabrication and modeling of Ag/TiO <inf>2</inf> /ITO memristor. , 2011, , .		12
300	Adaptive oxide electronics: A review. Journal of Applied Physics, 2011, 110, .	1.1	268
301	All-ZnO-based transparent resistance random access memory device fully fabricated at room temperature. Journal Physics D: Applied Physics, 2011, 44, 255104.	1.3	65
302	Memristor-based reactance-less oscillator. Electronics Letters, 2011, 47, 1220.	0.5	57
303	Nonlinear Dynamics of Memristor Oscillators. IEEE Transactions on Circuits and Systems I: Regular Papers, 2011, 58, 1323-1336.	3.5	289
304	Solving mazes with memristors: A massively parallel approach. Physical Review E, 2011, 84, 046703.	0.8	127
305	Memristive and Memcapacitive Characteristics of a Au/Ti– \$hbox{HfO}_{2}\$-InP/InGaAs Diode. IEEE Electron Device Letters, 2011, 32, 131-133.	2.2	30
306	Nanofilamentary resistive switching in binary oxide system; a review on the present status and outlook. Nanotechnology, 2011, 22, 254002.	1.3	530
307	Pinched hysteretic loops of ideal memristors, memcapacitors and meminductors must be â€~self-crossing'. Electronics Letters, 2011, 47, 1385-1387.	0.5	176
308	Spin-wave interference patterns created by spin-torque nano-oscillators for memory and computation. Nanotechnology, 2011, 22, 095301.	1.3	71

#	Article	IF	CITATIONS
309	Device and SPICE modeling of RRAM devices. Nanoscale, 2011, 3, 3833.	2.8	84
310	Time-Dependent Current Distributions of a Two-Terminal Carbon Nanotube-Based Electronic Device. Journal of Physical Chemistry B, 2011, 115, 5519-5525.	1.2	14
311	Imaging oxygen defects and their motion at a manganite surface. Nature Communications, 2011, 2, 212.	5.8	44
312	Chaotic Oscillator Based on Memristor and Its Circuit Implementation. , 2011, , .		2
313	A Memristor Device Model. IEEE Electron Device Letters, 2011, 32, 1436-1438.	2.2	247
314	Chaotic Modeling of Time-Delay Memristive System. Lecture Notes in Computer Science, 2011, , 634-641.	1.0	1
315	A SIMPLE MEMRISTOR CHAOTIC CIRCUIT WITH COMPLEX DYNAMICS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 2629-2645.	0.7	144
316	Memristor Crossbar-Based Hardware Implementation of the IDS Method. IEEE Transactions on Fuzzy Systems, 2011, 19, 1083-1096.	6.5	38
317	Oxide Electronics Utilizing Ultrafast Metal-Insulator Transitions. Annual Review of Materials Research, 2011, 41, 337-367.	4.3	818
319	A simple uwb-chaotic generator based on memristor switching model. , 2011, , .		3
320	Dynamic performance analysis of PID controller with one memristor., 2011,,.		4
321	Chaotic memristive circuit: equivalent circuit realization and dynamical analysis. Chinese Physics B, 2011, 20, 120502.	0.7	125
322	Exploration of CMOS-Memristive Neuromorphic Circuits., 2011,,.		0
323	Flexible Memristive Memory Array on Plastic Substrates. Nano Letters, 2011, 11, 5438-5442.	4.5	250
324	Short-Term Memory to Long-Term Memory Transition in a Nanoscale Memristor. ACS Nano, 2011, 5, 7669-7676.	7.3	840
325	Memristor-based IMPLY logic design procedure. , 2011, , .		91
326	Measuring the switching dynamics and energy efficiency of tantalum oxide memristors. Nanotechnology, 2011, 22, 505402.	1.3	99
327	Polar Charges Induced Electric Hysteresis of ZnO Nano/Microwire for Fast Data Storage. Nano Letters, 2011, 11, 2829-2834.	4.5	102

#	Article	IF	CITATIONS
328	Design implications of memristor-based RRAM cross-point structures. , 2011, , .		56
329	Time-dependency of the threshold voltage in memristive devices. , 2011, , .		15
330	Analytical approach to single memristor circuits. , 2011, , .		6
331	Nanotechnology Research Directions for Societal Needs in 2020. , 2011, , .		202
332	Memristive characteristics in semiconductor/metal contacts tested by conductive atomic force microscopy. Journal Physics D: Applied Physics, 2011, 44, 475102.	1.3	4
333	Electric currents in networks of interconnected memristors. Physical Review E, 2011, 83, 031105.	0.8	31
334	The memristor as an electric synapse - synchronization phenomena. , 2011, , .		16
335	Memristor synaptic dynamics' influence on synchronous behavior of two Hindmarsh-Rose neurons., 2011,,.		10
336	SPICE modeling of memristors., 2011,,.		160
337	Hebbian Learning in Spiking Neural Networks With Nanocrystalline Silicon TFTs and Memristive Synapses. IEEE Nanotechnology Magazine, 2011, 10, 1066-1073.	1.1	142
338	Bond Graph Modelling of Engineering Systems. , 2011, , .		89
339	Tuning of Nonvolatile Bipolar Memristive Switching in Co(III) Polymer with an Extended Azo Aromatic Ligand. Journal of the American Chemical Society, 2011, 133, 1168-1171.	6.6	135
340	Dopant Control by Atomic Layer Deposition in Oxide Films for Memristive Switches. Chemistry of Materials, 2011, 23, 123-125.	3.2	65
341	Phase change memory for synaptic plasticity application in neuromorphic systems. , 2011, , .		16
342	A non-volatile memory array based on nano-ionic Conductive Bridge Memristors. , 2011, , .		5
343	Electrochemical metallization memories—fundamentals, applications, prospects. Nanotechnology, 2011, 22, 254003.	1.3	678
344	Controlling Chaos in a Memristor Based Circuit Using a Twin-T Notch Filter. IEEE Transactions on Circuits and Systems I: Regular Papers, 2011, 58, 1337-1344.	3.5	117
345	Parallel memristors: Improving variation tolerance in memristive digital circuits. , 2011, , .		4

#	Article	IF	CITATIONS
346	Memristor-based cell design and digital logical operations implementation. , 2011, , .		3
347	Two-terminal resistive switches (memristors) for memory and logic applications. , 2011, , .		77
348	Analysis of a memristor based 1T1M crossbar architecture. , 2011, , .		18
349	Memristor-based synaptic networks and logical operations using in-situ computing., 2011,,.		12
350	Gold nanoparticles–polyaniline composite material: Synthesis, structure and electrical properties. Synthetic Metals, 2011, 161, 1408-1413.	2.1	35
351	A low-power memristive neuromorphic circuit utilizing a global/local training mechanism., 2011,,.		16
352	Research: metrics, quality, and management implications. Research Evaluation, 2011, 20, 90-106.	1.3	26
353	A read-monitored write circuit for 1T1M multi-level memristor memories. , 2011, , .		44
354	Fractional-Order Chaotic Systems. Nonlinear Physical Science, 2011, , 103-184.	0.2	31
355	Fractional Calculus. Nonlinear Physical Science, 2011, , 7-42.	0.2	12
356	Two―and Threeâ€Terminal Resistive Switches: Nanometerâ€Scale Memristors and Memistors. Advanced Functional Materials, 2011, 21, 2660-2665.	7.8	74
357	Impact of imprecise programming of memristor on building hardware neural network. , 2011, , .		0
358	Electrochemical metallization memories—fundamentals, applications, prospects. Nanotechnology, 2011, 22, 289502.	1.3	248
359	Charge Recombination Time Distributions in Photosynthetic Reaction Centers Exposed to Alternating Intervals of Photoexcitation and Dark Relaxation. Journal of Physical Chemistry B, 2011, 115, 8534-8544.	1.2	8
360	Self-Controlled Writing and Erasing in a Memristor Crossbar Memory. IEEE Nanotechnology Magazine, 2011, 10, 1454-1463.	1.1	66
361	Memristor MOS Content Addressable Memory (MCAM): Hybrid Architecture for Future High Performance Search Engines. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2011, 19, 1407-1417.	2.1	209
362	Solving mazes with memristors: a massively-parallel approach. Nature Precedings, 0, , .	0.1	3
363	A case for neuromorphic ISAs. ACM SIGPLAN Notices, 2011, 46, 145-158.	0.2	2

#	Article	IF	CITATIONS
364	A case for neuromorphic ISAs. Computer Architecture News, 2011, 39, 145-158.	2.5	4
365	On Spike-Timing-Dependent-Plasticity, Memristive Devices, and Building a Self-Learning Visual Cortex. Frontiers in Neuroscience, 2011, 5, 26.	1.4	364
366	Redox-controlled memristive switching in the junctions employing Ti reactive electrodes. AIP Advances, $2011,1,032141.$	0.6	3
368	Generalized model for Memristor-based Wien family oscillators. Microelectronics Journal, 2011, 42, 1032-1038.	1.1	95
369	Exponential synchronization of memristor-based recurrent neural networks with time delays. Neurocomputing, 2011, 74, 3043-3050.	3.5	145
370	Dynamical properties of electrical circuits with fully nonlinear memristors. Nonlinear Analysis: Real World Applications, 2011, 12, 3674-3686.	0.9	14
371	Adaptive Properties of Stochastic Memristor Networks: A Computational Study. Procedia Computer Science, 2011, 7, 312-313.	1.2	2
372	Memory materials: a unifying description. Materials Today, 2011, 14, 584-591.	8.3	74
373	Variable gain amplifier circuit using titanium dioxide memristors. IET Circuits, Devices and Systems, 2011, 5, 59.	0.9	50
374	Field Programmable Stateful Logic Array. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2011, 30, 1800-1813.	1.9	49
375	Bistable Nonvolatile Elastic-Membrane Memcapacitor Exhibiting a Chaotic Behavior. IEEE Transactions on Electron Devices, 2011, 58, 1809-1812.	1.6	57
376	A Versatile Memristor Model With Nonlinear Dopant Kinetics. IEEE Transactions on Electron Devices, 2011, 58, 3099-3105.	1.6	463
377	Solution-Processed Memristive Junctions Used in a Threshold Indicator. IEEE Transactions on Electron Devices, 2011, 58, 3435-3443.	1.6	53
378	Understanding the Charge Transport Mechanism in VRS and BRS States of Transition Metal Oxide Nanoelectronic Memristor Devices. IEEE Transactions on Electron Devices, 2011, 58, 3912-3919.	1.6	9
379	From Microelectronics to Nanoelectronics. The Frontiers Collection, 2011, , 13-36.	0.1	1
380	Molecular spintronics. Chemical Society Reviews, 2011, 40, 3336.	18.7	1,093
381	Evolution of a current in a resistor. Fractional Calculus and Applied Analysis, 2011, 14, .	1,2	7
382	Memory effects in complex materials and nanoscale systems. Advances in Physics, 2011, 60, 145-227.	35.9	677

#	Article	IF	Citations
383	MEMRISTOR HAMILTONIAN CIRCUITS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 2395-2425.	0.7	46
384	An Information Theory Approach to Nonlinear, Nonequilibrium Thermodynamics. Journal of Statistical Physics, 2011, 145, 385-409.	0.5	11
385	PSPICE modeling of meminductor. Analog Integrated Circuits and Signal Processing, 2011, 66, 129-137.	0.9	57
386	Mixed analog-digital crossbar-based hardware implementation of sign–sign LMS adaptive filter. Analog Integrated Circuits and Signal Processing, 2011, 66, 41-48.	0.9	21
387	Resistance switching memories are memristors. Applied Physics A: Materials Science and Processing, 2011, 102, 765-783.	1.1	1,170
388	Metal/TiO2 interfaces for memristive switches. Applied Physics A: Materials Science and Processing, 2011, 102, 785-789.	1.1	138
389	Feedback write scheme for memristive switching devices. Applied Physics A: Materials Science and Processing, 2011, 102, 973-982.	1.1	75
390	Polymeric ferroelectric and oxide semiconductor-based fully transparent memristor cell. Applied Physics A: Materials Science and Processing, 2011, 102, 983-990.	1.1	11
391	Synaptic behaviors of a single metal–oxide–metal resistive device. Applied Physics A: Materials Science and Processing, 2011, 102, 1019-1025.	1.1	44
392	Nanoscale resistive switches: devices, fabrication and integration. Applied Physics A: Materials Science and Processing, 2011, 102, 955-965.	1.1	19
393	Synaptic behaviors and modeling of a metal oxide memristive device. Applied Physics A: Materials Science and Processing, 2011, 102, 857-863.	1.1	355
394	Characterization of quantum conducting channels inÂmetal/molecule/metal devices using pressure-modulated conductance microscopy. Applied Physics A: Materials Science and Processing, 2011, 102, 943-948.	1.1	5
395	Chaotic memristor. Applied Physics A: Materials Science and Processing, 2011, 102, 885-889.	1.1	50
396	An ionic bottle for high-speed, long-retention memristive devices. Applied Physics A: Materials Science and Processing, 2011, 102, 1033-1036.	1.1	8
397	Engineering oxide resistive switching materials for memristive device application. Applied Physics A: Materials Science and Processing, 2011, 102, 991-996.	1.1	31
398	Dynamic behaviors of a class of memristor-based Hopfield networks. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 1661-1665.	0.9	83
399	Programming of memristor crossbars by using genetic algorithm. Procedia Computer Science, 2011, 3, 232-237.	1.2	18
400	Material Memristive Device Circuits with Synaptic Plasticity: Learning and Memory. BioNanoScience, 2011, 1, 24-30.	1.5	93

#	Article	IF	CITATIONS
401	On the Hysteresis Loop of Organic Memristive Device. BioNanoScience, 2011, 1, 198-201.	1.5	10
402	From foundational issues in artificial intelligence to intelligent memristive nano-devices. International Journal of Machine Learning and Cybernetics, 2011, 2, 75-87.	2.3	10
403	A memristor-based third-order oscillator: beyond oscillation. Applied Nanoscience (Switzerland), 2011, 1, 143-145.	1.6	24
404	Dynamics analysis of chaotic circuit with two memristors. Science China Technological Sciences, 2011, 54, 2180-2187.	2.0	53
405	State-of-the-art flash memory devices and post-flash emerging memories. Science China Information Sciences, 2011, 54, 1039-1060.	2.7	5
406	The driving force for development of IC and system in future: Reducing the power consumption and improving the ratio of performance to power consumption. Science China Information Sciences, 2011, 54, 915-935.	2.7	8
407	Proteinâ€Based Memristive Nanodevices. Small, 2011, 7, 3016-3020.	5.2	67
408	An analogue model of the memristor. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2011, 24, 400-408.	1.2	80
409	Towards Allâ€Soft Matter Circuits: Prototypes of Quasiâ€Liquid Devices with Memristor Characteristics. Advanced Materials, 2011, 23, 3559-3564.	11.1	189
410	Anatomy of a Nanoscale Conduction Channel Reveals the Mechanism of a Highâ€Performance Memristor. Advanced Materials, 2011, 23, 5633-5640.	11.1	393
411	Semistate models of electrical circuits including memristors. International Journal of Circuit Theory and Applications, 2011, 39, 607-627.	1.3	30
412	Stability and non-standard finite difference method of the generalized Chua's circuit. Computers and Mathematics With Applications, 2011, 62, 961-970.	1.4	63
413	Magnetic domain wall motion by spin transfer. Comptes Rendus Physique, 2011, 12, 309-317.	0.3	30
414	Memristor-based circuits for performing basic arithmetic operations. Procedia Computer Science, 2011, 3, 128-132.	1.2	93
415	Memristor as an archetype of dynamic data-driven systems and applications to sensor networks. Procedia Computer Science, 2011, 4, 1782-1787.	1.2	4
416	Nonvolatile unipolar resistive switching in ultrathin films of graphene and carbon nanotubes. Solid State Communications, 2011, 151, 1084-1087.	0.9	34
417	Improvement of Rectifying Property in Pt/TiO _x /Pt by Controlling Oxidization of TiO _x Layer. Japanese Journal of Applied Physics, 2011, 50, 04DH04.	0.8	1
418	Memristor crossbar-based hardware implementation of fuzzy membership functions. , $2011, , .$		5

#	ARTICLE	IF	CITATIONS
419	A case for neuromorphic ISAs. , 2011, , .		28
420	Resistively and capacitively shunted Josephson junctions model for unconventional superconductors. , 2011, , .		3
421	Emulating reflex actions through memristors. , 2011, , .		0
422	Programming Many-Core Chips., 2011,,.		56
423	Analysis of memory property on the memristor based on the current and constant of integration. , 2011, , .		0
424	Stateful logic pipeline architecture. , 2011, , .		17
425	A fast-transform basis with hysteretic features. , 2011, , .		7
426	On steady-state analysis of circuits with memristors. , 2011, , .		4
427	Class of all i-v dynamics for memristive elements in pattern recognition systems. , 2011, , .		6
428	Multiple memristor read and write circuit for neuromorphic applications. , $2011, , .$		9
429	MRAC: A Memristor-based Reconfigurable Framework for Adaptive Cache Replacement. , 2011, , .		0
430	Memristive model of electro-osmosis in skin. Physical Review E, 2011, 83, 031916.	0.8	46
431	Parallel memristive filaments model applicable to bipolar and filamentary resistive switching. Applied Physics Letters, 2011, 99, .	1.5	20
432	Nanoscale lateral switchable rectifiers fabricated by local anodic oxidation. Journal of Applied Physics, 2011, 110, 024511.	1.1	17
433	Synchronization in networks of FitzHugh-Nagumo neurons with memristor synapses. , 2011, , .		12
434	Symmetric charge-flux nonlinearity with combined inherently-asymmetric memristors., 2011,,.		4
435	Improved reliability of magnetic field programmable gate arrays through the use of memristive tunnel junctions. Journal of Applied Physics, 2011, 110, 096105.	1.1	6
436	Analysis of a third-order circuit based on a memristor. , 2011, , .		2

#	Article	IF	CITATIONS
437	Memristor Oscillators and its FPGA Implementation. Advanced Materials Research, 0, 383-390, 6992-6997.	0.3	4
438	A Nano-Structure Memristor and Key Manufacture Technologies. Key Engineering Materials, 2011, 474-476, 1029-1032.	0.4	0
439	Emulation of floating memcapacitors and meminductors using current conveyors. Electronics Letters, 2011, 47, 243.	0.5	114
440	Probing of Ag-based Resistive Switching on the Nanoscale. Materials Research Society Symposia Proceedings, 2011, 1331, 10701.	0.1	2
441	Atomic switches: atomic-movement-controlled nanodevices for new types of computing. Science and Technology of Advanced Materials, 2011, 12, 013003.	2.8	39
442	Memristor-based unit cell for a detector readout circuit. , 2011, , .		4
443	Study on Fabrication Pt Nanowires for Memristor. Applied Mechanics and Materials, 0, 58-60, 513-517.	0.2	0
444	Chaos control in a memristor based circuit. , 2011, , .		2
445	Human blood liquid memristor. International Journal of Medical Engineering and Informatics, 2011, 3, 16.	0.2	26
446	A-maze-ing arrays. Nature Physics, 2011, 7, 837-837.	6.5	2
447	Memristance View of Piezoelectricity. IEEE Sensors Journal, 2011, 11, 2514-2517.	2.4	2
448	A novel & amp; #x201C; divide and conquer & amp; #x201D; testing technique for memristor based lookup table., 2011, , .		9
449	Dynamical analysis of memristor hyperchaotic system., 2011,,.		0
450	MEMRISTIVE EXCITABLE CELLULAR AUTOMATA. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 3083-3102.	0.7	14
451	EXPLICIT ODE REDUCTION OF MEMRISTIVE SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 917-930.	0.7	9
452	Memristors. Communications of the ACM, 2011, 54, 22-24.	3.3	23
453	Memristive Multilevel Memory with Applications in Audio Signal Storage. Lecture Notes in Computer Science, 2011, , 228-235.	1.0	6
454	Memristors by Quantum Mechanics. Lecture Notes in Computer Science, 2012, , 656-663.	1.0	1

#	Article	IF	CITATIONS
455	A Chaotic Attractor in Delayed Memristive System. Abstract and Applied Analysis, 2012, 2012, 1-8.	0.3	6
456	Programmable analogue circuits with multilevel memristive device. Electronics Letters, 2012, 48, 1415.	0.5	2
457	A Novel Chaotic Neural Network Using Memristive Synapse with Applications in Associative Memory. Abstract and Applied Analysis, 2012, 2012, 1-19.	0.3	14
458	Simulation of memristors in presence of high-frequency forcing function. Electronics Letters, 2012, 48, 684.	0.5	O
459	On an eigenvalue problem with a reciprocal-linear term. Waves in Random and Complex Media, 2012, 22, 186-206.	1.6	7
460	A memristor-based TCAM (ternary content addressable memory) cell. , 2012, , .		28
461	Memristive diode bridge with LCR filter. Electronics Letters, 2012, 48, 824.	0.5	162
462	An Expanded HP Memristor Model for Memristive Neural Network. Lecture Notes in Computer Science, 2012, , 647-653.	1.0	3
463	Inorganic Nanoparticles for either Charge Storage or Memristance Modulation. Advances in Science and Technology, 2012, 77, 196-204.	0.2	0
464	Electron Self-trapping in Ge ₂ Se ₃ and its Role in Ag and Sn Incorporation. Materials Research Society Symposia Proceedings, 2012, 1431, 43.	0.1	6
465	Programmable Frequency Multivibrator Based on Memristor., 2012,,.		0
466	Design trade-offs for high density cross-point resistive memory. , 2012, , .		70
467	Creating unorganised machines from memristors. , 2012, , .		1
468	Hardware realization of BSB recall function using memristor crossbar arrays. , 2012, , .		155
469	Cell design and comparative evaluation of a novel 1T memristor-based memory. , 2012, , .		12
470	A novel write-scheme for data integrity in memristor-based crossbar memories. , 2012, , .		6
471	RRAM-based adaptive neural logic block for implementing non-linearly separable functions in a single layer. , 2012, , .		7
472	Memristor-based reservoir computing. , 2012, , .		75

#	Article	IF	CITATIONS
473	The cause of complexity in nature: An analytical and computational approach., 2012,,.		0
474	Chains of organic memristive devices: Cross-talk of elements. , 2012, , .		5
475	Observation and characterization of memristor current spikes and their application to neuromorphic computation. , 2012, , .		11
476	Non-Hebbian Learning Implementation in Light-Controlled Resistive Memory Devices. PLoS ONE, 2012, 7, e52042.	1.1	2
477	Effect of annealing duration on the memristive behavior of Pt/TiO <inf>2</inf> /ITO memristive device. , 2012, , .		12
478	Low power memristor-based ReRAM design with Error Correcting Code. , 2012, , .		47
479	Memristive devices as parameter setting elements in programmable gain amplifiers. Applied Physics Letters, 2012, 101, 243502.	1.5	31
480	<i>In-situ</i> oxygen x-ray absorption spectroscopy investigation of the resistance modulation mechanism in LiNbO2 memristors. Applied Physics Letters, 2012, 100, .	1.5	31
481	Memristive operation mode of floating gate transistors: A two-terminal MemFlash-cell. Applied Physics Letters, 2012, 101, 263504.	1.5	38
482	Second and higher harmonics generation with memristive systems. Applied Physics Letters, 2012, 100, .	1.5	18
483	Patterns of conductivity in excitable automata with updatable intervals of excitations. Physical Review E, 2012, 86, 056105.	0.8	2
484	Memristors-based NMOS logic circuits. , 2012, , .		0
485	Dynamic Hysteresis in Cyclic Deformation of Crystalline Solids. Physical Review Letters, 2012, 109, 155504.	2.9	19
486	SPICE modeling of memristors with multilevel resistance states. Chinese Physics B, 2012, 21, 098901.	0.7	28
487	Modeling dynamics of memristive nano-structures. , 2012, , .		2
488	A Kondo insulating memristor. Applied Physics Letters, 2012, 101, 013505.	1.5	12
489	Nonvolatile Memristive Switching Characteristics of TiO\$_{m 2}\$ Films Embedded With Nickel Nanocrystals. IEEE Nanotechnology Magazine, 2012, 11, 51-55.	1.1	55
490	Aging process of unipolar resistive switching in microscale cylindrical Fe-base alloy/TiO2/Au-cells. Journal of Applied Physics, 2012, 112, 034507.	1.1	2

#	Article	IF	Citations
491	Design of decoders based on memristors. , 2012, , .		1
492	Memristor behavioural modeling and simulations using Verilog-AMS. , 2012, , .		4
493	Fourier Response of a Memristor: Generation of High Harmonics With Increasing Weights. IEEE Transactions on Circuits and Systems II: Express Briefs, 2012, 59, 830-834.	2.2	9
494	Memristor-based relaxation oscillators using digital gates. , 2012, , .		9
495	Oxide based memristive devices. , 2012, , .		1
496	A method for automatic tuning the memristance of memristive devices with the capacity of applying to memristive memories. , 2012 , , .		1
497	Biologically-inspired learning device using three-terminal ferroelectric memristor., 2012,,.		4
498	Effect of hydrogen/deuterium incorporation on electroforming voltage of SiOx resistive random access memory. Applied Physics Letters, 2012, 101, .	1.5	20
499	A low-power sense amplifier for adiabatic memory using memristor. , 2012, , .		1
500	Complex dynamical behaviors analysis of a voltage-controlled memristive system. , 2012, , .		0
501	Simulation of memristor crossbar structure on GPU platform. , 2012, , .		3
502	PHENOMENOLOGY OF RETAINED REFRACTORINESS: ON SEMI-MEMRISTIVE DISCRETE MEDIA. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1230036.	0.7	9
503	NiTi smart alloys for memristors with multi-time-scale volatility. Electronics Letters, 2012, 48, 877.	0.5	5
504	Printed circuit board based memristor in adaptive lowpass filter. Electronics Letters, 2012, 48, 1610-1611.	0.5	30
505	Evidence of hysteresis from first principle dft simulations of I–V curves in Pt/TiO <inf>2−x</inf> - TiO <inf>2</inf> /Pt memristive systems. , 2012, , .		2
506	Circuit design challenges and trends in read sensing schemes for resistive-type emerging nonvolatile memory. , 2012, , .		5
507	MEMRISTIVE CHAOTIC CIRCUITS BASED ON CELLULAR NONLINEAR NETWORKS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250070.	0.7	60
508	A new memristor based on NiTi smart alloys. , 2012, , .		3

#	Article	IF	CITATIONS
509	Implication logic synthesis methods for memristors. , 2012, , .		35
510	Spintronic memristor based temperature sensor design with CMOS current reference. , 2012, , .		0
511	A memristor-based random modulator for compressive sensing systems. , 2012, , .		9
512	Signals generated in memristive circuits. The Nanoscale Systems: Mathematical Modelingory and Applications, 2012, 1, 48-57.	0.3	1
513	A novel elementary memristive system. , 2012, , .		1
514	Memristive port-Hamiltonian control: path-dependent damping injection in control of mechanical systems* *Arnau $D\tilde{A}^2$ ria-Cerezo was partially supported by the Spanish government research project DPI2010-15110 IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 167-172.	0.4	2
515	Memory Elements: A Paradigm Shift in Lagrangian Modeling of Electrical Circuits. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 445-450.	0.4	16
516	AFM-utilizing approach to search for new oxide materials for perspective applications in memristive devices. EPJ Applied Physics, 2012, 58, 20102.	0.3	4
517	Future prospects of DRAM: emerging alternatives. International Journal of High Performance Systems Architecture, 2012, 4, 1.	0.2	0
518	Memristor based-elements for chaotic circuits. Nonlinear Theory and Its Applications IEICE, 2012, 3, 336-356.	0.4	9
519	On Synthesis of Boolean Expressions for Memristive Devices Using Sequential Implication Logic. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2012, 31, 1129-1134.	1.9	33
520	Neural Synaptic Weighting With a Pulse-Based Memristor Circuit. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 148-158.	3.5	307
521	Dynamic behaviors of memristor-based recurrent neural networks with time-varying delays. Neural Networks, 2012, 36, 1-10.	3.3	176
522	Cost-effective printed memristor fabrication and analysis. , 2012, , .		2
523	Port-Hamiltonian Formulation of Systems With Memory. Proceedings of the IEEE, 2012, 100, 1928-1937.	16.4	32
524	Memristor Bridge Synapses. Proceedings of the IEEE, 2012, 100, 2061-2070.	16.4	229
525	Leveraging Memristive Systems in the Construction of Digital Logic Circuits. Proceedings of the IEEE, 2012, 100, 2033-2049.	16.4	103
526	Science and Engineering Beyond Moore's Law. Proceedings of the IEEE, 2012, 100, 1720-1749.	16.4	220

#	Article	IF	CITATIONS
527	Low Store Energy, Low VDDmin, 8T2R Nonvolatile Latch and SRAM With Vertical-Stacked Resistive Memory (Memristor) Devices for Low Power Mobile Applications. IEEE Journal of Solid-State Circuits, 2012, 47, 1483-1496.	3.5	132
528	Memistor Is Not Memristor [Express Letters]. IEEE Circuits and Systems Magazine, 2012, 12, 75-78.	2.6	16
529	ERRATA to "Teaching Memristors to EE Undergraduate Students" [Errata]. IEEE Circuits and Systems Magazine, 2012, 12, 78-79.	2.6	0
530	Cartesian Genetic Programming for Memristive Logic Circuits. Lecture Notes in Computer Science, 2012, , 37-48.	1.0	1
531	News from the organic arena. Nature Nanotechnology, 2012, 7, 696-697.	15.6	12
532	An automatic gain control circuit with TiO2 memristor variable gain amplifier. Analog Integrated Circuits and Signal Processing, 2012, 73, 663-672.	0.9	14
533	Manifolds of Equilibria and Bifurcations without Parameters in Memristive Circuits. SIAM Journal on Applied Mathematics, 2012, 72, 877-896.	0.8	43
534	CMOS and Memristor-Based Neural Network Design for Position Detection. Proceedings of the IEEE, 2012, 100, 2050-2060.	16.4	150
535	Ferroelectric Tunnel Memristor. Nano Letters, 2012, 12, 5697-5702.	4.5	285
536	Analytical Solution of Circuits Employing Voltage- and Current-Excited Memristors. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 2619-2628.	3.5	22
537	A chaotic circuit based on Hewlett-Packard memristor. Chaos, 2012, 22, 023136.	1.0	215
538	Device Properties of Bernoulli Memristors. Proceedings of the IEEE, 2012, 100, 1938-1950.	16.4	17
539	Analysis of Passive Memristive Devices Array: Data-Dependent Statistical Model and Self-Adaptable Sense Resistance for RRAMs. Proceedings of the IEEE, 2012, 100, 2021-2032.	16.4	44
540	Neuromorphic, Digital, and Quantum Computation With Memory Circuit Elements. Proceedings of the IEEE, 2012, 100, 2071-2080.	16.4	201
541	Memristive Device Fundamentals and Modeling: Applications to Circuits and Systems Simulation. Proceedings of the IEEE, 2012, 100, 1991-2007.	16.4	103
542	Scaling Potential of Local Redox Processes in Memristive SrTiO \$_{3}\$ Thin-Film Devices. Proceedings of the IEEE, 2012, 100, 1979-1990.	16.4	64
543	Memristors: Devices, Models, and Applications [Scanning the Issue]. Proceedings of the IEEE, 2012, 100, 1911-1919.	16.4	153
544	Effects of Cobalt-60 Gamma-Rays on Ge-Se Chalcogenide Glasses and Ag/Ge-Se Test Structures. IEEE Transactions on Nuclear Science, 2012, 59, 3093-3100.	1.2	19

#	Article	IF	CITATIONS
545	Emerging memories: resistive switching mechanisms and current status. Reports on Progress in Physics, 2012, 75, 076502.	8.1	881
546	On the simplest fractional-order memristor-based chaotic system. Nonlinear Dynamics, 2012, 70, 1185-1197.	2.7	129
547	Memristive crossbar array with applications in image processing. Science China Information Sciences, 2012, 55, 461-472.	2.7	56
548	Resistive switching memory using titanium-oxide nanoparticle films. , 2012, , .		0
549	Resistive switching in copper oxide nanowire-based memristor. , 2012, , .		8
550	Memristive-biosensors: A new detection method by using nanofabricated memristors. Sensors and Actuators B: Chemical, 2012, 171-172, 449-457.	4.0	110
551	Memristor-based information gathering approaches, both ant-inspired and hypothetical. Nano Communication Networks, 2012, 3, 203-216.	1.6	7
552	Global exponential stability of a class of memristor-based recurrent neural networks with time-varying delays. Neurocomputing, 2012, 97, 149-154.	3.5	102
553	Realization of an analog model of memristor based on light dependent resistor. , 2012, , .		24
554	Memristor crossbar arrays with junction areas towards sub-10 & amp; #x00D7; 10 nm< sup> 2< /sup> . , 2012, , .		1
555	Memristor-based oscillator using Deboo integrator. , 2012, , .		4
556	A novel elementary memristive system. , 2012, , .		0
557	Memristive Behavior of ZnO/Au Film Investigated by a TiN CAFM Tip and Its Model Based on the Experiments. IEEE Nanotechnology Magazine, 2012, 11, 1135-1139.	1.1	9
558	Heat transfer in nanoelectronics by quantum mechanics. , 2012, , .		2
559	Nanoelectronics implementation of full adder with memristors. , 2012, , .		1
560	The 3-D Stacking Bipolar RRAM for High Density. IEEE Nanotechnology Magazine, 2012, 11, 948-956.	1.1	23
561	Existence of multiple operating points in memristive circuits., 2012,,.		1
562	Flexible Logic Gates Composed of Si-Nanowire-Based Memristive Switches. IEEE Transactions on Electron Devices, 2012, 59, 3288-3291.	1.6	9

#	Article	IF	Citations
563	Electromagnetic and Laplace domain analysis of memristance and associative learning using memristive synapses modeled in SPICE. , 2012 , , .		4
564	Reaction-diffusion media with excitable oregonators coupled by memristors. , 2012, , .		4
565	Technology Time Machine 2012 - Paving the path for the future technology developments [includes 9 white papers]., 2012,,.		0
566	Endurance-aware circuit designs of nonvolatile logic and nonvolatile sram using resistive memory (memristor) device., 2012,,.		31
567	A preliminary study on system-level impact of persistent main memory. , 2012, , .		5
568	The memristor in reconfigurable radio frequency devices. , 2012, , .		5
569	Quantum dynamics of circuits with memory capacitors and inductors. , 2012, , .		0
570	Memristors for energy-efficient, bioinspired processing. , 2012, , .		2
571	Advanced memristive model of synapses with adaptive thresholds. , 2012, , .		6
572	Resistive switching in aluminum nitride. , 2012, , .		9
573	Quantitative measure of hysteresis for memristors through explicit dynamics. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 2210-2229.	1.0	24
574	Applications and limitations of memristive implication logic. , 2012, , .		24
575	Active capacitors: Concept and implementation. , 2012, , .		7
576	Mathematical models and circuit implementations of memristive systems. , 2012, , .		7
577	Synaptic weighting circuits for Cellular Neural Networks. , 2012, , .		9
578	Analysis of a serial circuit with two memristors and voltage source at sine and impulse regime. , 2012, , .		5
579	The effect of electrode size on memristor properties: An experimental and theoretical study. , 2012, , .		12
580	Filamentary extension of the mem-con theory of memristance and its application to titanium dioxide sol-gel memristors., 2012,,.		8

#	Article	IF	CITATIONS
581	FPGA-based generation of autowaves in Memristive Cellular Neural Networks., 2012,,.		1
582	HODGKIN–HUXLEY AXON IS MADE OF MEMRISTORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1230011.	0.7	226
583	Spike timing dependent plasticity with memristive synapse in neuromorphic systems. , 2012, , .		6
584	Dynamic behaviors of hybrid Lotka-Volterra recurrent neural networks with memristor characteristics., 2012,,.		3
585	HIGHLY ACCURATE DOUBLET GENERATOR FOR MEMRISTOR-BASED ANALOG MEMORY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250153.	0.7	10
586	AUTOWAVES IN MEMRISTIVE CELLULAR NEURAL NETWORKS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1230027.	0.7	22
587	A brief analysis of the main SPICE models of the memristor. , 2012, , .		1
588	ORGANIC MEMRISTOR DEVICES FOR LOGIC ELEMENTS WITH MEMORY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250283.	0.7	43
589	A CMOS memristor implementation and its chaotic applications. , 2012, , .		3
590	Memristive analog arithmetic within cellular arrays. , 2012, , .		3
591	Performance and energy models for memristor-based 1T1R RRAM cell. , 2012, , .		18
592	Azo Anion Radical Complex of Rhodium as a Molecular Memory Switching Device: Isolation, Characterization, and Evaluation of Current–Voltage Characteristics. Journal of the American Chemical Society, 2012, 134, 6520-6523.	6.6	101
593	A CAD framework for the characterization and use of memristor models. , 2012, , .		5
594	Studies on switching mechanisms in Pd-nanodot embedded Nb2O5 memristors using scanning tunneling microscopy. Thin Solid Films, 2012, 520, 6648-6652.	0.8	23
595	A ferroelectric memristor. Nature Materials, 2012, 11, 860-864.	13.3	983
596	Multiterminal Memristive Nanowire Devices for Logic and Memory Applications: A Review. Proceedings of the IEEE, 2012, 100, 2008-2020.	16.4	37
597	ADS implementation of a new memristor based UWB chaotic generator., 2012,,.		1
598	Synthesis of memristor & Synthesis of Memorial & Synthesis of Memorial & Synthesis of Memorial & Synthesis of Memorial & Synthesis & Synt		0

#	Article	IF	Citations
599	Stochastic hybrid 3D matrix: learning and adaptation of electrical properties. Journal of Materials Chemistry, 2012, 22, 22881.	6.7	54
600	Computation of the Area of Memristor Pinched Hysteresis Loop. IEEE Transactions on Circuits and Systems II: Express Briefs, 2012, 59, 607-611.	2.2	62
601	A Feedback Spin-Valve Memristive System. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 2405-2412.	3.5	1
602	Memristor Emulator for Memristor Circuit Applications. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 2422-2431.	3 . 5	326
603	Stochastic Gradient Descent Inspired Training Technique for a CMOS/Nano Memristive Trainable Threshold Gate Array. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 1051-1060.	3. 5	26
604	Catecholate and 2,3-acenediolate complexes of d0 ions as prospective materials for molecular electronics and spintronics. Coordination Chemistry Reviews, 2012, 256, 1706-1731.	9.5	22
605	Memristors and memristive circuits - an overview. , 2012, , .		7
606	A closed form memristor SPICE model and oscillator. , 2012, , .		7
607	High precision analogue memristor state tuning. Electronics Letters, 2012, 48, 1105-1107.	0.5	45
608	A Novel Design and Modeling Paradigm for Memristor-Based Crossbar Circuits. IEEE Nanotechnology Magazine, 2012, 11, 1151-1159.	1.1	103
609	Phaseâ€change processors, memristors and memflectors. Physica Status Solidi (B): Basic Research, 2012, 249, 1978-1984.	0.7	22
610	Resistive switching in silicon suboxide films. Journal of Applied Physics, 2012, 111, .	1.1	217
611	SPICE simulator for hybrid CMOS memristor circuit and system. , 2012, , .		13
612	Memristor emulator with off-the-shelf solid state components for memristor application circuits. , 2012, , .		1
613	Training artificial neural networks with memristive synapses: HSPICE-matlab co-simulation. , 2012, , .		4
614	Memristance and memcapacitance modeling of thin film devices showing memristive behavior., 2012,,.		2
615	A Boundary Condition-Based Approach to the Modeling of Memristor Nanostructures. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 2713-2726.	3.5	136
616	Effect of boundary on controlled memristor-based oscillator., 2012,,.		11

#	Article	IF	CITATIONS
617	Why Are Memristor and Memistor Different Devices?. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 2611-2618.	3.5	12
618	Memristor Bridge Synapse-Based Neural Network and Its Learning. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 1426-1435.	7.2	312
619	A memristor based on current-induced domain-wall motion in a nanostructured giant magnetoresistance device. Journal of Applied Physics, 2012, 111, 07D303.	1.1	23
620	Memristance drift avoidance with charge bouncing for memristor-based nonvolatile memories. Journal of the Korean Physical Society, 2012, 61, 1418-1421.	0.3	3
621	Memristor based carry lookahead adder architectures. , 2012, , .		25
622	The charging and discharging characteristics of memcapacitor storage with applications. , 2012, , .		3
623	Paper title: Sequence generator for computing arbitrary n-input Boolean function using two memristors. , 2012, , .		1
624	Persuading Computers to Act More Like Brains. , 2012, , 37-61.		4
625	Are Memristors the Future of Al?. , 2012, , 9-14.		9
626	Biologically-Inspired Electronics with Memory Circuit Elements. , 2012, , 15-36.		5
627	Memristors for More Than Just Memory: How to Use Learning to Expand Applications. , 2012, , 63-73.		2
628	Computational Intelligence and Neuromorphic Computing Architectures. , 2012, , 77-88.		4
629	Reconfigurable Memristor Fabrics for Heterogeneous Computing. , 2012, , 89-106.		5
630	Statistical Memristor Model and Its Applications in Neuromorphic Computing. , 2012, , 107-131.		0
631	Phase Change Memory and Chalcogenide Materials for Neuromorphic Applications: Emphasis on Synaptic Plasticity., 2012,, 155-178.		4
632	Adaptive Resonance Theory Design in Mixed Memristive-Fuzzy Hardware., 2012,, 133-153.		5
633	Energy-Efficient Memristive Analog and Digital Electronics. , 2012, , 181-209.		5
634	Memristor SPICE Modeling. , 2012, , 211-244.		37

#	Article	IF	CITATIONS
635	Memristor Models for Pattern Recognition Systems. , 2012, , 245-267.		3
636	Polymer and Nanoparticle-Composite Bistable Devices: Physics of Operation and Initial Applications. , 2012, , 291-314.		2
637	Stochastic memory: Memory enhancement due to noise. Physical Review E, 2012, 85, 011116.	0.8	58
638	A Voltage Mode Memristor Bridge Synaptic Circuit with Memristor Emulators. Sensors, 2012, 12, 3587-3604.	2.1	71
639	Implementation of an analogue model of a memristor based on a light-dependent resistor. Chinese Physics B, 2012, 21, 108501.	0.7	53
640	Oxygen vacancy filament formation in TiO2: A kinetic Monte Carlo study. Journal of Applied Physics, 2012, 112, 073512.	1.1	32
641	Teaching Memory Circuit Elements via Experiment-Based Learning. IEEE Circuits and Systems Magazine, 2012, 12, 64-74.	2.6	17
642	Adaptive synchronization of memristor-based Chua $\hat{E}^{1}/4$ s circuits. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 2775-2780.	0.9	103
643	SnO ₂ -based memristors and the potential synergies of integrating memristors with MEMS. Proceedings of SPIE, 2012, , .	0.8	2
644	Resistive Programmable Through-Silicon Vias for Reconfigurable 3-D Fabrics. IEEE Nanotechnology Magazine, 2012, 11, 8-11.	1.1	24
645	Continuous Electrical Tuning of the Chemical Composition of TaO _{<i>x</i>} -Based Memristors. ACS Nano, 2012, 6, 2312-2318.	7.3	119
646	Analytical Properties of Circuits with Memristors. Mathematics in Industry, 2012, , 59-67.	0.1	0
647	A Simulation Method for Memristor Based Dopant Drift Model. Applied Mechanics and Materials, 2012, 239-240, 915-920.	0.2	0
648	MEMRISTOR MODEL AND ITS APPLICATION FOR CHAOS GENERATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250205.	0.7	111
649	Implementation of a New Memristor Based Chaotic System. , 2012, , .		6
650	Oxygen level: the dominant of resistive switching characteristics in cerium oxide thin films. Journal Physics D: Applied Physics, 2012, 45, 355101.	1.3	110
651	The influences of model parameters on the characteristics of memristors. Chinese Physics B, 2012, 21, 048401.	0.7	21
652	Electrode Materials for Ge2Sb2Te5-Based Memristors. Journal of Electronic Materials, 2012, 41, 3417-3422.	1.0	14

#	Article	IF	CITATIONS
653	Exponential stability analysis of memristor-based recurrent neural networks with time-varying delays. Neurocomputing, 2012, 97, 233-240.	3.5	220
654	Evolution of Plastic Learning in Spiking Networks via Memristive Connections. IEEE Transactions on Evolutionary Computation, 2012, 16, 711-729.	7.5	59
655	Phase Change Memory advanced electrical characterization for conventional and alternative applications. , $2012, \ldots$		3
656	Design Considerations for Multilevel CMOS/Nano Memristive Memory. ACM Journal on Emerging Technologies in Computing Systems, 2012, 8, 1-22.	1.8	50
657	Modeling memristive behavior using Drude Model., 2012,,.		0
658	Design Exploration of Hybrid CMOS and Memristor Circuit by New Modified Nodal Analysis. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2012, 20, 1012-1025.	2.1	72
659	Statistical memristor modeling and case study in neuromorphic computing. , 2012, , .		19
660	Predicting chaos in memristive oscillator via harmonic balance method. Chaos, 2012, 22, 043119.	1.0	13
661	A case for neuromorphic ISAs. ACM SIGPLAN Notices, 2012, 47, 145.	0.2	3
662	On a New Three-dimensional Chaotic System with Only One Equilibrium Based on a Series Memristive Circuit., 2012,,.		1
663	Models of memristors for SPICE simulations. , 2012, , .		48
664	Electrochemical metallization cells—blending nanoionics into nanoelectronics?. MRS Bulletin, 2012, 37, 124-130.	1.7	107
665	Multifunctional behaviors of an indium tin oxide/PbLa(ZrTi)O3/indium tin oxide wafer illuminated by ultraviolet light. Journal of Intelligent Material Systems and Structures, 2012, 23, 765-774.	1.4	13
666	An Analytical Approach for Memristive Nanoarchitectures. IEEE Nanotechnology Magazine, 2012, 11, 374-385.	1.1	52
667	Biomimetic model of the outer plexiform layer by incorporating memristive devices. Physical Review E, 2012, 85, 041918.	0.8	38
668	Memristor Spice model for designing analog circuit. , 2012, , .		7
669	Memristor crossbar based hardware realization of BSB recall function. , 2012, , .		48
670	Study of the Noninverting Amplifier Based on Memristor with Linear Dopant Drift. , 2012, , .		3

#	Article	IF	CITATIONS
671	Fractional-order circuit elements with memory. , 2012, , .		15
672	Scientific Computing in Electrical Engineering SCEE 2010. Mathematics in Industry, 2012, , .	0.1	2
673	CNN cell with memcapacitive synapses and threshold control circuit., 2012,,.		3
674	Modeling and implementation of oxide memristors for neuromorphic applications. , 2012, , .		9
675	Design of adaptive nano/CMOS neural architectures. , 2012, , .		12
676	MRL — Memristor Ratioed Logic. , 2012, , .		111
677	Memristor-based synapse design and training scheme for neuromorphic computing architecture. , 2012, , .		9
678	Memristor models for chaotic neural circuits. , 2012, , .		8
679	Memristor circuit for artificial synaptic weighting of pulse inputs. , 2012, , .		9
680	Low-cost, CMOS compatible, Ta2O5-based hemi-memristor for neuromorphic circuits. Electronics Letters, 2012, 48, 1451.	0.5	9
681	Transient analysis of memristors. , 2012, , .		4
682	Direct growth of TiO ₂ nanotubes on transparent substrates and their resistive switching characteristics. Journal Physics D: Applied Physics, 2012, 45, 355306.	1.3	87
683	Neuromorphic Atomic Switch Networks. PLoS ONE, 2012, 7, e42772.	1.1	146
684	Oscillatory Threshold Logic. PLoS ONE, 2012, 7, e48498.	1.1	28
685	Enhancement of Resistance Switching in Electrodeposited Co-ZnO Films. ISRN Nanotechnology, 2012, 2012, 1-4.	1.3	8
687	Predicting the Future of IT Services with TRIZ. Journal of Integrated Design and Process Science, 2012, 16, 5-14.	0.2	3
688	Two centuries of memristors. Nature Materials, 2012, 11, 478-481.	13.3	334
689	The Fourth Element. Proceedings of the IEEE, 2012, 100, 1920-1927.	16.4	234

#	Article	IF	CITATIONS
690	Symmetrical Negative Differential Resistance Behavior of a Resistive Switching Device. ACS Nano, 2012, 6, 2517-2523.	7.3	103
691	Observation of conducting filament growth in nanoscale resistive memories. Nature Communications, 2012, 3, 732.	5.8	957
692	Lagrange formalism of memory circuit elements: Classical and quantum formulations. Physical Review B, 2012, 85, .	1.1	23
693	Hybrid modelling and emulation of memâ€systems. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2012, 25, 216-225.	1.2	32
694	3D THz metamaterials from micro/nanomanufacturing. Laser and Photonics Reviews, 2012, 6, 219-244.	4.4	65
695	The tractability index of memristive circuits: branchâ€oriented and treeâ€based models. Mathematical Methods in the Applied Sciences, 2012, 35, 1659-1669.	1.2	2
696	Memristors With Flexible Electronic Applications. Proceedings of the IEEE, 2012, 100, 1971-1978.	16.4	33
697	A Natural Silk Fibroin Proteinâ€Based Transparent Bioâ€Memristor. Advanced Functional Materials, 2012, 22, 4493-4499.	7.8	202
698	An Electronic Version of Pavlov's Dog. Advanced Functional Materials, 2012, 22, 2744-2749.	7.8	168
699	Resistive Switching WOxâ€Au Coreâ€Shell Nanowires with Unexpected Nonwetting Stability Even when Submerged Under Water. Advanced Materials, 2012, 24, 2418-2423.	11.1	31
700	A Lightâ€Controlled Resistive Switching Memory. Advanced Materials, 2012, 24, 2496-2500.	11.1	138
701	Resistance Switching Characteristics of Solid Electrolyte Chalcogenide Ag ₂ Se Nanoparticles for Flexible Nonvolatile Memory Applications. Advanced Materials, 2012, 24, 3573-3576.	11.1	101
703	Macroscale Ordered Ultrathin Telluride Nanowire Films, and Tellurium/Telluride Heteroâ€Nanowire Films. Angewandte Chemie - International Edition, 2012, 51, 7420-7425.	7.2	84
704	Analysis of current–voltage characteristics for memristive elements in pattern recognition systems. International Journal of Circuit Theory and Applications, 2012, 40, 1277-1320.	1.3	83
705	Memristor-based RRAM with applications. Science China Information Sciences, 2012, 55, 1446-1460.	2.7	53
706	Thermophoresis/diffusion as a plausible mechanism for unipolar resistive switching in metal–oxide–metal memristors. Applied Physics A: Materials Science and Processing, 2012, 107, 509-518.	1.1	169
707	Hartley's oscillator: The simplest chaotic two-component circuit. Chaos, Solitons and Fractals, 2012, 45, 306-313.	2.5	59
708	Cyclic matrices of weighted digraphs. Discrete Applied Mathematics, 2012, 160, 280-290.	0.5	4

#	ARTICLE	IF	CITATIONS
709	Synchronization control of a class of memristor-based recurrent neural networks. Information Sciences, 2012, 183, 106-116.	4.0	342
710	Non linear dynamics of memristor based 3rd order oscillatory system. Microelectronics Journal, 2012, 43, 169-175.	1.1	79
711	Design of a memcapacitor emulator based on a memristor. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 394-399.	0.9	75
712	An Energy-Efficient Memristive Threshold Logic Circuit. IEEE Transactions on Computers, 2012, 61, 474-487.	2.4	79
713	Extended Nodal Analysis. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2012, 31, 89-100.	1.9	6
714	Modern Microwave Ferrites. IEEE Transactions on Magnetics, 2012, 48, 1075-1104.	1.2	557
715	Versatile resistive switching (memristive) behavior in an ITO/ZRO2/AG sandwich fabricated using electrohydrodynamic printing. Journal of the Korean Physical Society, 2012, 61, 119-123.	0.3	12
716	Memristor and the integral quantum Hall effect. Journal of Communications Technology and Electronics, 2012, 57, 189-191.	0.2	4
717	A Memristive Nanoparticle/Organic Hybrid Synapstor for Neuroinspired Computing. Advanced Functional Materials, 2012, 22, 609-616.	7.8	163
718	Atomic Switch: Atom/Ion Movement Controlled Devices for Beyond Vonâ€Neumann Computers. Advanced Materials, 2012, 24, 252-267.	11.1	338
719	Emergent Criticality in Complex Turing Bâ€Type Atomic Switch Networks. Advanced Materials, 2012, 24, 286-293.	11.1	182
720	The Memristive Magnetic Tunnel Junction as a Nanoscopic Synapseâ€Neuron System. Advanced Materials, 2012, 24, 762-766.	11.1	184
721	Regenerable Resistive Switching in Silicon Oxide Based Nanojunctions. Advanced Materials, 2012, 24, 1197-1201.	11.1	52
722	Cost-effective fabrication of memristive devices with ZnO thin film using printed electronics technologies. Applied Physics A: Materials Science and Processing, 2012, 106, 165-170.	1.1	42
723	Realistic limits to computation. Applied Physics A: Materials Science and Processing, 2012, 106, 967-982.	1.1	2
724	Dynamics Analysis of a Class of Memristor-Based Recurrent Networks with Time-Varying Delays in the Presence of Strong External Stimuli. Neural Processing Letters, 2012, 35, 47-59.	2.0	80
725	An image cascaded twoâ€port model for singleâ€particle quantum propagation in crystals. International Journal of Circuit Theory and Applications, 2013, 41, 552-562.	1.3	3
726	Physical unclonable functions based on crossbar arrays for cryptographic applications. International Journal of Circuit Theory and Applications, 2013, 41, 619-633.	1.3	22

#	Article	IF	CITATIONS
727	Structural characterization of classical and memristive circuits with purely imaginary eigenvalues. International Journal of Circuit Theory and Applications, 2013, 41, 273-294.	1.3	9
728	Tunable Electroluminescence in Planar Graphene/SiO ₂ Memristors. Advanced Materials, 2013, 25, 5593-5598.	11.1	67
729	Nano-solenoid: helicoid carbon–boron nitride hetero-nanotube. Nanoscale, 2013, 5, 11902.	2.8	16
730	Features of memristor emulator-based artificial neural synapses. , 2013, , .		3
731	Physics-based memristor models. , 2013, , .		26
732	A Compact SPICE Model of Unipolar Memristive Devices. IEEE Nanotechnology Magazine, 2013, 12, 843-850.	1.1	13
733	Analysis of multi-memristor circuits. , 2013, , .		2
734	Associative Learning of Integrate-and-Fire Neurons with Memristor-Based Synapses. Neural Processing Letters, 2013, 38, 69-80.	2.0	23
736	Generalized Memristive Device SPICE Model and its Application in Circuit Design. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2013, 32, 1201-1214.	1.9	199
737	Three Fingerprints of Memristor. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 3008-3021.	3.5	473
738	Robust Hybrid Memristor-CMOS Memory: Modeling and Design. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2013, 21, 2069-2079.	2.1	63
739	Memristive Neuro-Fuzzy System. IEEE Transactions on Cybernetics, 2013, 43, 269-285.	6.2	33
740	Highly ordered TiO2 nanotube-stumps with memristive response. Electrochemistry Communications, 2013, 34, 177-180.	2.3	42
741	Advances in Applied Self-Organizing Systems. Advanced Information and Knowledge Processing, 2013, , .	0.2	4
742	On the physical properties of memristive, memcapacitive and meminductive systems. Nanotechnology, 2013, 24, 255201.	1.3	90
743	The First Radios Were Made Using Memristors!. IEEE Circuits and Systems Magazine, 2013, 13, 8-16.	2.6	18
744	Global anti-synchronization of a class of chaotic memristive neural networks with time-varying delays. Neural Networks, 2013, 46, 1-8.	3.3	169
745	A Proposal for Hybrid Memristor-CMOS Spiking Neuromorphic Learning Systems. IEEE Circuits and Systems Magazine, 2013, 13, 74-88.	2.6	56

#	Article	IF	Citations
746	An introduction to the memristor. Physics Education, 2013, 48, 317-321.	0.3	5
747	The Desired Memristor for Circuit Designers. IEEE Circuits and Systems Magazine, 2013, 13, 17-22.	2.6	73
748	Image Processing by a Programmable Grid Comprising Quantum Dots and Memristors. IEEE Nanotechnology Magazine, 2013, 12, 879-887.	1.1	13
749	Memristive device with threshold for synaptic application in Neuromorphic hardwares. , 2013, , .		O
750	Dynamic behaviors of memristor-based delayed recurrent networks. Neural Computing and Applications, 2013, 23, 815-821.	3.2	57
751	Multistability of periodic delayed recurrent neural network with memristors. Neural Computing and Applications, 2013, 23, 1963-1967.	3.2	49
752	Associate learning and correcting in a memristive neural network. Neural Computing and Applications, 2013, 22, 1071-1076.	3.2	47
753	Rigid Body, Flexible Body, and Micro Electromechanical Systems. , 2013, , 281-433.		O
754	Current self-complianced and self-rectifying resistive switching in Ag-electroded single Na-doped ZnO nanowires. Nanoscale, 2013, 5, 2651.	2.8	41
755	Resistive switching in a negative temperature coefficient metal oxide memristive one-port. Applied Physics A: Materials Science and Processing, 2013, 111, 1045-1049.	1.1	4
756	Hybrid Analysis of Nonlinear Circuits: DAE Models with Indices Zero and One. Circuits, Systems, and Signal Processing, 2013, 32, 2065-2095.	1.2	4
757	Application of Memristor-Based Controller for Loop Filter Design in Charge-Pump Phase-Locked Loops. Circuits, Systems, and Signal Processing, 2013, 32, 1013-1023.	1.2	33
758	MgO(001) barrier based magnetic tunnel junctions and their device applications. Science China: Physics, Mechanics and Astronomy, 2013, 56, 29-60.	2.0	28
759	Memristor Drift Model based on conservation of mobile vacancies. , 2013, , .		1
760	Key concepts behind forming-free resistive switching incorporated with rectifying transport properties. Scientific Reports, 2013, 3, 2208.	1.6	48
761	Design investigation of nanoelectronic circuits using crossbar-based nanoarchitectures. Microelectronics Journal, 2013, 44, 190-200.	1.1	19
762	Comparison of Two Memristor Based Neural Network Learning Schemes for Crossbar Architecture. Lecture Notes in Computer Science, 2013, , 492-499.	1.0	1
763	Synaptic memcapacitor bridge synapses. Neurocomputing, 2013, 122, 370-374.	3.5	20

#	Article	IF	CITATIONS
764	Nanoscale resistive switching devices: mechanisms and modeling. Nanoscale, 2013, 5, 10076.	2.8	232
765	A Simple Model of Double-Loop Hysteresis Behavior in Memristive Elements. IEEE Transactions on Circuits and Systems II: Express Briefs, 2013, 60, 487-491.	2.2	100
766	Bi-stable resistive switching characteristics in Ti-doped ZnO thin films. Nanoscale Research Letters, 2013, 8, 154.	3.1	40
767	Memristor-based memory: The sneak paths problem and solutions. Microelectronics Journal, 2013, 44, 176-183.	1.1	347
768	Using Memristors to Handle Cell Failures in Flexible Networks: From Programmed Cell Death to Zombies. Procedia CIRP, 2013, 11, 390-393.	1.0	1
769	Ideal memristors as reciprocal elements. , 2013, , .		2
770	Dual sided doped memristor and it's mathematical modelling., 2013,,.		4
771	Radiation Effects on LiNbO\$_2\$ Memristors for Neuromorphic Computing Applications. IEEE Transactions on Nuclear Science, 2013, 60, 4555-4562.	1.2	15
772	Total-lonizing-Dose Effects on the Resistance Switching Characteristics of Chalcogenide Programmable Metallization Cells. IEEE Transactions on Nuclear Science, 2013, 60, 4563-4569.	1.2	34
773	Memcapacitive properties of poly(3,4-ethylenedioxythiophene) modified electrodes. Electrochemistry Communications, 2013, 28, 63-66.	2.3	3
774	Global exponential periodicity and stability of a class of memristor-based recurrent neural networks with multiple delays. Information Sciences, 2013, 232, 386-396.	4.0	156
775	Forty years of molecular electronics: Nonâ€equilibrium heat and charge transport at the nanoscale. Physica Status Solidi (B): Basic Research, 2013, 250, 2249-2266.	0.7	84
776	Universal fractional map and cascade of bifurcations type attractors. Chaos, 2013, 23, 033127.	1.0	27
777	NONSMOOTH BIFURCATIONS, TRANSIENT HYPERCHAOS AND HYPERCHAOTIC BEATS IN A MEMRISTIVE MURALI–LAKSHMANAN–CHUA CIRCUIT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350098.	0.7	53
778	Superconducting Filaments Formed During Nonvolatile Resistance Switching in Electrodeposited Î'-Bi ₂ O ₃ . ACS Nano, 2013, 7, 9940-9946.	7.3	42
779	A SPICE MODEL OF THE PEO-PANI MEMRISTOR. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350112.	0.7	7
780	Composite Behavior of Multiple Memristor Circuits. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 2688-2700.	3.5	61
781	A New Memristor Based Chaotic System. Applied Mechanics and Materials, 2013, 275-277, 2481-2486.	0.2	4

#	Article	IF	Citations
782	Memristor, Hodgkin–Huxley, and Edge of Chaos. Nanotechnology, 2013, 24, 383001.	1.3	182
783	Retention of resistance states in ferroelectric tunnel memristors. Applied Physics Letters, 2013, 103, .	1.5	26
784	Hardware security strategies exploiting nanoelectronic circuits., 2013,,.		28
785	Analog Memristors Based on Thickening/Thinning of Ag Nanofilaments in Amorphous Manganite Thin Films. ACS Applied Materials & Enterfaces, 2013, 5, 11258-11264.	4.0	84
786	A synapse memristor model with forgetting effect. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 3260-3265.	0.9	62
787	Integration of nanoscale memristor synapses in neuromorphic computing architectures. Nanotechnology, 2013, 24, 384010.	1.3	469
788	Electrochemical System with Memimpedance Properties. Journal of Physical Chemistry C, 2013, 117, 24943-24947.	1.5	39
789	New Memristor Applications: AM, ASK, FSK, and BPSK Modulators. IEEE Antennas and Propagation Magazine, 2013, 55, 304-313.	1.2	27
790	Spatiotemporal drift-diffusion simulations of analog ionic memristors. Journal of Applied Physics, 2013, 114, .	1.1	8
791	Resistive Switching Hysteresis in Thin Films of Bismuth Ferrite. Ferroelectrics, 2013, 444, 183-189.	0.3	5
792	Low voltage resistive switching devices based on chemically produced silicon oxide. Applied Physics Letters, 2013, 103, .	1.5	33
793	Memristor based delay element using current starved inverter. , 2013, , .		7
794	PECVD of Ge <inf>x</inf> S <inf>1−x</inf> films for nano-ionic redox conductive bridge memristive switch memory. , 2013, , .		0
7 95	Memristor-Based Nonvolatile Random Access Memory: Hybrid Architecture for Low Power Compact Memory Design. IEEE Access, 2013, 1, 29-34.	2.6	60
796	TaO x -based resistive switching memories: prospective and challenges. Nanoscale Research Letters, 2013, 8, 418.	3.1	170
797	A fractional approach to the Fermi-Pasta-Ulam problem. European Physical Journal: Special Topics, 2013, 222, 1795-1803.	1.2	10
798	On the beneficial role of noise in resistive switching. Applied Physics Letters, 2013, 103, .	1.5	28
799	Variable conductivity of nanocomposite nickel oxide/porous silicon. Physical Review B, 2013, 88, .	1.1	11

#	Article	IF	CITATIONS
800	EXPANDABLE CIRCUITS OF MUTATOR-BASED MEMCAPACITOR EMULATOR. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1330017.	0.7	26
801	A Triangular Periodic Table of Elementary Circuit Elements. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 616-623.	3.5	31
802	GENERALIZED MEMORY ELEMENT AND CHAOTIC MEMORY SYSTEM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350135.	0.7	48
803	Composite memristance of parallel and serial memristor circuits. , 2013, , .		1
804	Frequency characterization of memristive devices., 2013,,.		5
805	A Review on Memristive Stateful Logic. Advanced Materials Research, 2013, 791-793, 1845-1849.	0.3	0
806	Memristor-based neural circuits., 2013,,.		9
807	Interference and memory capacity effects in memristive systems. Applied Physics Letters, 2013, 102, .	1.5	17
808	Emulation of analog memristors using low yield digital switching memristors. , 2013, , .		0
809	Memristor measurements and simulations. , 2013, , .		3
810	On the mathematical modeling of series and parallel memcapacitors. , 2013, , .		7
811	BSB training scheme implementation on memristor-based circuit. , 2013, , .		14
812	Is spiking logic the route to memristor-based computers?., 2013,,.		8
813	Chaotic circuit based on two memristors. , 2013, , .		0
814	PSpice switch-based versatile memristor model. , 2013, , .		18
815	A pseudo-weighted sensing scheme for memristor based cross-point memory. , 2013, , .		2
816	DA5DCSWS: A Distributed Architecture for semantic Web services Discovery and Composition. , 2013, , .		1
817	The modified single input Op-Amps memristor based oscillator. , 2013, , .		4

#	Article	IF	CITATIONS
818	Studying the effect of memristor state variability on the gain of memristor-based tunable amplifiers. , $2013, \ldots$		5
819	Memristor macromodel and its application to neuronal spike generation. , 2013, , .		2
820	Dynamical Behaviors of a TiO ₂ Memristor Oscillator. Chinese Physics Letters, 2013, 30, 110506.	1.3	48
821	Resistive switching in thermally oxidized titanium films. , 2013, , .		1
822	Application of tool-specific simulation algorithms to Memristor models written in Modelica. , 2013, , .		0
823	Building Neuromorphic Circuits with Memristive Devices. IEEE Circuits and Systems Magazine, 2013, 13, 56-73.	2.6	95
824	Memristors for digital, memory and neuromorphic circuits., 2013,,.		4
825	Variation-tolerant Computing with Memristive Reservoirs. , 2013, , .		26
826	On the operational features and performance of a memristor-based cell for a LUT of an FPGA. , 2013, , .		4
827	Syntheses of a PSPICE model of a titanium-dioxide memristor and Wien memristor generator., 2013,,.		0
828	Memristor circuit investigation through a new tutorial toolbox. , 2013, , .		7
829	New Algebraic Criteria for Synchronization Stability of Chaotic Memristive Neural Networks With Time-Varying Delays. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1701-1707.	7.2	144
830	Synaptic behavior and STDP of asymmetric nanoscale memristors in biohybrid systems. Nanoscale, 2013, 5, 7297.	2.8	31
831	Observation of spontaneous bursting spike patterns in simple three memristor circuits. , 2013, , .		1
832	On the mathematical properties of generalized fractional-order two-port networks using hybrid parameters., 2013,,.		5
833	Quantum mechanics and spin-valves. , 2013, , .		1
834	A family of memristive transfer functions of negative feedback nullor-based amplifiers. , 2013, , .		1
835	A data driven model of TiO <inf>2</inf> printed memristors., 2013,,.		2

#	Article	IF	CITATIONS
836	The Memristive Properties of a Single VO ₂ Nanowire with Switching Controlled by Selfâ€Heating. Advanced Materials, 2013, 25, 5098-5103.	11.1	136
837	DA5DCSWS: A Distributed Architecture for semantic Web services Discovery and Composition. , 2013, , .		2
838	Amplitude characterization of memristive devices. , 2013, , .		2
839	Modeling analysis and equivalent circuit realization of a flux-controlled memristor., 2013,,.		2
840	Energy and power based perspective of memristive controllers. , 2013, , .		4
841	Memory diodes with nonzero crossing. Applied Physics Letters, 2013, 102, .	1.5	23
842	Memristive devices for computing. Nature Nanotechnology, 2013, 8, 13-24.	15.6	3,019
843	Comparison of Interfacial and Bulk Ionic Motion in Analog Memristors. IEEE Transactions on Electron Devices, 2013, 60, 427-432.	1.6	28
844	Analytical investigation of self-organized criticality in neural networks. Journal of the Royal Society Interface, 2013, 10, 20120558.	1.5	33
845	Fabrication of printed memory device having zinc-oxide active nano-layer and investigation of resistive switching. Current Applied Physics, 2013, 13, 90-96.	1.1	50
846	Possible application of memristors in ESD protection. Journal of Electrostatics, 2013, 71, 373-376.	1.0	2
847	Global exponential synchronization of memristor-based recurrent neural networks with time-varying delays. Neural Networks, 2013, 48, 195-203.	3.3	175
848	ZrO2 flexible printed resistive (memristive) switch through electrohydrodynamic printing process. Thin Solid Films, 2013, 536, 308-312.	0.8	49
849	Memristive port-Hamiltonian control: Path-dependent damping injection in control of mechanical systems. European Journal of Control, 2013, 19, 454-460.	1.6	4
850	Global exponential dissipativity and stabilization of memristor-based recurrent neural networks with time-varying delays. Neural Networks, 2013, 48, 158-172.	3.3	183
851	Resistive switching in single vertically-aligned ZnO nanowire grown directly on Cu substrate. Chemical Physics Letters, 2013, 575, 112-114.	1,2	12
852	Realization of biquadratic filter by using memristor. , 2013, , .		4
853	Memristor-based filtering applications. , 2013, , .		54

#	Article	IF	CITATIONS
854	On the realization of memristor based RC high pass filter. , 2013, , .		11
855	Neuromorphic Engineering: From Neural Systems to Brain-Like Engineered Systems. Neural Networks, 2013, 45, 1-3.	3.3	9
856	Heuristics for the Hodgkin–Huxley system. Mathematical Biosciences, 2013, 245, 56-60.	0.9	4
857	Towards artificial neurons and synapses: a materials point of view. RSC Advances, 2013, 3, 3169.	1.7	171
858	Investigation of electrical properties of organic memristors based on thin polyaniline-graphene films. Russian Microelectronics, 2013, 42, 27-32.	0.1	12
859	Nanomemory: information and ingenuity. Nanotechnology, 2013, 24, 130201-130201.	1.3	1
860	First Order Mem-Circuits: Modeling, Nonlinear Oscillations and Bifurcations. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 1570-1583.	3.5	27
861	Memristor-based neural networks. Journal Physics D: Applied Physics, 2013, 46, 093001.	1.3	307
862	A High-Speed 7.2-ns Read-Write Random Access 4-Mb Embedded Resistive RAM (ReRAM) Macro Using Process-Variation-Tolerant Current-Mode Read Schemes. IEEE Journal of Solid-State Circuits, 2013, 48, 878-891.	3.5	81
863	TEAM: ThrEshold Adaptive Memristor Model. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 211-221.	3 . 5	601
864	Memristor Working Condition Analysis Based on SPICE Model. Communications in Computer and Information Science, 2013, , 242-252.	0.4	1
865	Programmable CMOS/Memristor Threshold Logic. IEEE Nanotechnology Magazine, 2013, 12, 115-119.	1.1	142
866	Memristor-based modified recoded-multiplicand systolic serial-parallel multiplier. , 2013, , .		4
867	Sneak-path Testing of Memristor-based Memories. , 2013, , .		42
868	A Singleâ€Device Universal Logic Gate Based on a Magnetically Enhanced Memristor. Advanced Materials, 2013, 25, 534-538.	11.1	95
869	Nanobatteries in redox-based resistive switches require extension of memristor theory. Nature Communications, 2013, 4, 1771.	5.8	473
870	Resistive Computing: Memristors-Enabled Signal Multiplication. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 1241-1249.	3.5	42
871	Numerical and experimental study of stochastic resistive switching. Physical Review E, 2013, 87, 012128.	0.8	12

#	Article	IF	CITATIONS
872	Scaling Effect on Unipolar and Bipolar Resistive Switching of Metal Oxides. Scientific Reports, 2013, 3, 1657.	1.6	87
873	Stochastic memristive devices for computing and neuromorphic applications. Nanoscale, 2013, 5, 5872.	2.8	395
874	DUALITY OF MEMRISTOR CIRCUITS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1330001.	0.7	36
875	Design of a Hybrid Memory Cell Using Memristance and Ambipolarity. IEEE Nanotechnology Magazine, 2013, 12, 71-80.	1.1	61
876	Fuzzy modeling and synchronization of different memristor-based chaotic circuits. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 2016-2021.	0.9	66
877	Generalized Analysis of Symmetric and Asymmetric Memristive Two-Gate Relaxation Oscillators. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 2701-2708.	3.5	43
878	Elastic resistance change and action potential generation of non-faradaic Pt/TiO2/Pt capacitors. Nanoscale, 2013, 5, 6363.	2.8	16
879	IMPASSE POINTS, MUTATORS, AND OTHER CHUA CREATIONS. , 2013, , 25-35.		0
880	CHUA'S LAGRANGIAN CIRCUIT ELEMENTS. , 2013, , 36-40.		0
881	Effect of voltage polarity and amplitude on electroforming of TiO2 based memristive devices. Nanoscale, 2013, 5, 3257.	2.8	17
882	EXPLORATIONS IN THE FOREST OF BIFURCATION TREES: ROUTE FROM CHUA'S CIRCUIT TO CHUA'S MEMRISTIVE OSCILLATOR. , 2013, , 160-174.		0
883	CHAOTIC NEURAL NETWORKS AND BEYOND. , 2013, , 259-270.		0
884	Stabilization of a memristor-based chaotic system by intermittent control and fuzzy processing. International Journal of Control, Automation and Systems, 2013, 11, 643-647.	1.6	46
885	ANALYTICAL ANALYSIS OF MEMRISTIVE NETWORKS. , 2013, , 529-539.		0
886	HARDWARE MEMRISTOR EMULATORS. , 2013, , 540-547.		1
887	SIMPLE MEMRISTIVE TIME-DELAY CHAOTIC SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350073.	0.7	45
888	Variation of switching mechanism in TiO2 thin film resistive random access memory with Ag and graphene electrodes. Microelectronic Engineering, 2013, 104, 42-47.	1.1	20
889	Multifunctional Sensor Based on a Hybrid Ferromagnetic/Sol–Gel TiO2Coating Nanostructure. Industrial & Description of the Strategies of the Marketing Chemistry Research, 2013, 52, 3787-3793.	1.8	6

#	Article	IF	CITATIONS
890	Reconfigurable resistive switching devices based on individual tungsten trioxide nanowires. AlP Advances, $2013, 3, \ldots$	0.6	17
891	Improved memristor-based relaxation oscillator. Microelectronics Journal, 2013, 44, 814-820.	1.1	34
892	Passivity analysis of memristor-based recurrent neural networks with time-varying delays. Journal of the Franklin Institute, 2013, 350, 2354-2370.	1.9	80
893	Compound synchronization of four memristor chaotic oscillator systems and secure communication. Chaos, 2013, 23, 013140.	1.0	211
894	Controlling Chaos in a Memristor Based Circuit. World Scientific Series on Nonlinear Science, Series A, 2013, , 13-36.	0.0	0
895	Chaos in Memristively Coupled Harmonic Oscillators. World Scientific Series on Nonlinear Science, Series A, 2013, , 99-112.	0.0	0
896	Introduction to Memristors. World Scientific Series on Nonlinear Science, Series A, 2013, , 1-12.	0.0	0
897	Memristor Model Comparison. IEEE Circuits and Systems Magazine, 2013, 13, 89-105.	2.6	158
898	Compact Circuit Model and Hardware Emulation for Floating Memristor Devices. IEEE Circuits and Systems Magazine, 2013, 13, 42-55.	2.6	33
899	Bias temperature instability analysis on memory properties improved by hydrogen annealing treatment in Ti/HfO <i>_x</i> /Pt capacitors. Physica Status Solidi - Rapid Research Letters, 2013, 7, 497-500.	1.2	5
900	Review on Atomic Layer Deposition and Applications of Oxide Thin Films. Critical Reviews in Solid State and Materials Sciences, 2013, 38, 203-233.	6.8	88
901	Memristor: From Basics to Deployment. IEEE Potentials, 2013, 32, 34-39.	0.2	29
902	Influence of Geometry on the Memristive Behavior of the Domain Wall Spintronic Memristors and Its Applications for Measurement. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1745-1748.	0.8	2
903	Integrating Multiple Resistive Memory Devices on a Single Carbon Nanotube. Advanced Functional Materials, 2013, 23, 5631-5637.	7.8	12
904	Dynamical behavior, chaos control and synchronization of a memristor-based ADVP circuit. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 148-170.	1.7	49
905	Anti-synchronization control of a class of memristive recurrent neural networks. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 373-385.	1.7	160
906	Fractional generalization of memristor and higher order elements. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 264-275.	1.7	70
907	A discrete memristor made of ZnO nanowires synthesized on printed circuit board. Materials Letters, 2013, 91, 298-300.	1.3	34

#	Article	IF	CITATIONS
908	Fabrication of ZrO2 layer through electrohydrodynamic atomization for the printed resistive switch (memristor). Microelectronic Engineering, 2013, 103, 167-172.	1.1	47
909	Projective synchronisation of fractional-order memristive systems with different structures based on active control method. International Journal of Sensor Networks, 2013, 14, 102.	0.2	3
910	Exploring the design space of specialized multicore neural processors. , $2013, \ldots$		42
911	Decay of persistent spin helix due to the spin relaxation at boundaries. Physical Review B, 2013, 87, .	1.1	3
912	Low power and high speed current-mode memristor-based TLGs. , 2013, , .		14
913	A Cu/ZnO Nanowire/Cu Resistive Switching Device. Nano-Micro Letters, 2013, 5, 159-162.	14.4	15
914	Some fingerprints of ideal memristors. , 2013, , .		44
915	Towards data reliable crossbar-based memristive memories. , 2013, , .		26
916	Detecting resistive-opens in RRAM using Programmable DfT scheme., 2013,,.		0
917	Modeling and simulating the adaptive electrical properties of stochastic polymeric 3D networks. Modelling and Simulation in Materials Science and Engineering, 2013, 21, 075007.	0.8	7
918	Realization of a 4-port generalized mutator and its application to memstor (sup) 1 (/sup) simulations. , 2013, , .		6
919	A supervised spiking time dependant plasticity network based on memristors. , 2013, , .		8
920	Analysis of the mutual inductive and capacitive connections and tolerances of memristors parameters of a memristor memory matrix. , 2013 , , .		13
921	State Dynamics and Modeling of Tantalum Oxide Memristors. IEEE Transactions on Electron Devices, 2013, 60, 2194-2202.	1.6	183
922	Adaptive Neuromorphic Architecture (ANA). Neural Networks, 2013, 45, 111-116.	3.3	35
923	Bottleneck of using a single memristive device as a synapse. Neurocomputing, 2013, 115, 166-168.	3.5	8
924	Memristive devices in computing system. ACM Journal on Emerging Technologies in Computing Systems, 2013, 9, 1-20.	1.8	57
925	Energy efficient perceptron pattern recognition using segmented memristor crossbar arrays., 2013,,.		23

#	Article	IF	Citations
926	Complementary Resistive Switch (CRS) based smart sensor search engine., 2013,,.		3
927	The conductive mechanisms of a titanium oxide memristor with dopant drift and a tunnel barrier. Chinese Physics B, 2013, 22, 088502.	0.7	10
928	Sneak path testing and fault modeling for multilevel memristor-based memories. , 2013, , .		18
929	Complex dynamics in neuromorphic memristor circuits. , 2013, , .		4
930	Organic memristive devices: Architecture, properties and applications in neuromorphic networks., 2013,,.		6
931	Heat Transfer in Nanoelectronics by Quantum Mechanics. , 2013, , .		1
932	Silver environment and covalent network rearrangement in GeS3–Ag glasses. Journal of Physics Condensed Matter, 2013, 25, 454210.	0.7	3
933	A generic simulator for large networks of memristive elements. Nanotechnology, 2013, 24, 384007.	1.3	5
934	LOCAL ACTIVITY PRINCIPLE: THE CAUSE OF COMPLEXITY AND SYMMETRY BREAKING. , 2013, , 146-159.		4
935	AFTERMATH OF FINDING THE MEMRISTOR. , 2013, , 490-493.		2
936	THE SINGING ARC: THE OLDEST MEMRISTOR?., 2013,, 494-507.		8
937	Is memristor a dynamic element?. Electronics Letters, 2013, 49, 1523-1525.	0.5	17
938	Complete Periodic Synchronization of Memristor-Based Neural Networks with Time-Varying Delays. Discrete Dynamics in Nature and Society, 2013, 2013, 1-12.	0.5	9
939	PID Controller Based on Memristive CMAC Network. Abstract and Applied Analysis, 2013, 2013, 1-6.	0.3	15
940	An Improved SPICE Macromodel of Memristor for General Applications. Applied Mechanics and Materials, 2013, 303-306, 1854-1858.	0.2	1
941	The Recent Progress of Research on Resistive Random Access Memory. Advanced Materials Research, 2013, 685, 372-377.	0.3	1
942	Memristive Behaviors in Ag ₂ S Nano-Particles Assembly. Advanced Materials Research, 0, 873, 168-173.	0.3	0
943	Synaptic electronics. Nanotechnology, 2013, 24, 380201-380201.	1.3	17

#	Article	IF	Citations
944	Memristance enhancement by external voltage source. Electronics Letters, 2013, 49, 1446-1448.	0.5	4
945	Coexistence of nonvolatility and volatility in Pt/Nb-doped SrTiO ₃ /In memristive devices. Journal Physics D: Applied Physics, 2013, 46, 495111.	1.3	7
946	The Generation, Analysis, and Circuit Implementation of a New Memristor Based Chaotic System. Mathematical Problems in Engineering, 2013, 2013, 1-8.	0.6	14
947	Edge Detection of Binary Image Based on Memristors. Advanced Materials Research, 0, 791-793, 2066-2070.	0.3	2
948	Almost Periodic Solution for Memristive Neural Networks with Time-Varying Delays. Journal of Applied Mathematics, 2013, 2013, 1-12.	0.4	7
949	Memristive Behavior of TiO ₂ Nanostructures Grown at Different Substrate Positioning by Immersion Method. Advanced Materials Research, 2013, 795, 256-259.	0.3	6
950	Nano-scale memristor SPICE implementation using ideal operational amplifier model. , 2013, , .		4
951	Hysteretic Current-Voltage Characteristics and Memristive Behaviors in Agl Nano-Particles Assembly. ECS Journal of Solid State Science and Technology, 2013, 2, N6-N10.	0.9	6
952	The Recent Advances of Research on Memristor and Memristive Characteristic Devices. Advanced Materials Research, 0, 685, 201-206.	0.3	4
953	The voltageâ€"current relationship and equivalent circuit implementation of parallel flux-controlled memristive circuits. Chinese Physics B, 2013, 22, 068401.	0.7	10
954	Inkjet-Printed Memristor: Printing Process Development. Japanese Journal of Applied Physics, 2013, 52, 05DB21.	0.8	9
955	Exponential synchronization of coupled memristive neural networks via pinning control. Chinese Physics B, 2013, 22, 050504.	0.7	16
956	Boolean Logic Gates from a Single Memristor via Low-Level Sequential Logic. Lecture Notes in Computer Science, 2013, , 79-89.	1.0	23
957	Computing Areas of Pinched Hysteresis Loops of Mem-Systems in OrCAD PSPICE. Applied Mechanics and Materials, 0, 278-280, 1081-1090.	0.2	7
958	The design and simulation of a titanium oxide memristor-based programmable analog filter in a simulation program with integrated circuit emphasis. Chinese Physics B, 2013, 22, 088501.	0.7	23
959	Memristor crossbar memory for hybrid ultra low power hearing aid speech processor. , 2013, , .		1
960	Role of Thermal Heating on the Voltage Induced Insulator-Metal Transition in <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>VO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> . Physical Review Letters, 2013, 110, 056601.	2.9	238
961	Memristor SPICE model and crossbar simulation based on devices with nanosecond switching time. , 2013, , .		69

#	Article	IF	CITATIONS
962	Image segmentation with threshold based on memristors. , 2013, , .		7
963	A simple floating memristor emulator circuit based on current conveyors. , 2013, , .		6
964	Associate learning law in a memristive neural network. , 2013, , .		0
965	Memristor-based synapse design and a case study in reconfigurable systems. , 2013, , .		2
966	Effects of Ti additives on structural and electric properties of Cr- and Ti-codoped ZnO layers. Journal of Applied Physics, 2013, 114, .	1.1	10
967	Intrinsic memristance mechanism of crystalline stoichiometric Ge2Sb2Te5. Applied Physics Letters, 2013, 103, .	1.5	25
968	Practical guide for validated memristance measurements. Review of Scientific Instruments, 2013, 84, 023903.	0.6	43
969	Forming-free resistive switching memories based on titanium-oxide nanoparticles fabricated at room temperature. Applied Physics Letters, 2013, 102, 022909.	1.5	31
970	A physical model of switching dynamics in tantalum oxide memristive devices. Applied Physics Letters, 2013, 102, 223502.	1.5	66
971	Dynamic behavior of 1-D array of the memristively-coupled Chua's circuits. , 2013, , .		1
972	Memristive Behavior in Electrohydrodynamic Atomized Layers of Poly[2-methoxy-5-(2'-ethylhexyloxy)–(p-phenylenevinylene)] for Next Generation Printed Electronics. Japanese Journal of Applied Physics, 2013, 52, 05DA05.	0.8	7
973	Unified modeling for memristive devices based on charge-flux constitutive relationships. , 2013, , .		2
974	Surveys in Differential-Algebraic Equations I., 2013, , .		16
975	Voltage-dependent resistance of undoped rutile, TiO2, ceramics. Applied Physics Letters, 2013, 103, .	1.5	11
976	Chaotic behaviour in a three element memristor based circuit using fourth order polynomial and PWL nonlinearity. , 2013 , , .		2
977	Complex dynamics and scale invariance of one-dimensional memristive networks. Physical Review E, 2013, 87, 022116.	0.8	24
978	Differential pair sense amplifier for a robust reading scheme for memristor-based memories. , 2013, , .		4
979	Changing the state of a memristive system with white noise. Physical Review E, 2013, 87, 042103.	0.8	22

#	Article	IF	CITATIONS
980	Cross point arrays of 8 nm × 8 nm memristive devices fabricated with nanoimprint lithograph of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, 06FA02.	y.Journal	65
981	Synthesis and Characterization of ZnO Thin Film Memristor. Advanced Materials Research, 0, 701, 172-175.	0.3	9
982	Research on file system and its self computing based on memristor. , 2013, , .		0
983	Connecting spiking neurons to a spiking memristor network changes the memristor dynamics. , 2013, , .		7
984	Temporal processing with volatile memristors., 2013,,.		5
985	SPICE model of memristor and its application. , 2013, , .		4
986	On the analog computational characteristics of memristive networks. , 2013, , .		9
987	Memristor-based balanced ternary adder. , 2013, , .		17
988	Back-End-of-Line Defect Analysis for Rnv8T Nonvolatile SRAM., 2013,,.		2
989	Design of an electronic synapse with spike time dependent plasticity based on resistive memory device. Journal of Applied Physics, 2013, 113, .	1.1	14
990	Pulse-induced resistive and capacitive switching in TiO2 thin film devices. Applied Physics Letters, 2013, 103, .	1.5	34
991	A memristor oscillator based on a twin-T network. Chinese Physics B, 2013, 22, 040502.	0.7	43
992	Autowaves in 3-D memristive cellular neural networks. , 2013, , .		0
993	Improvement of resistive switching uniformity for TiO ₂ -based memristive devices by introducing a thin HfO ₂ layer. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, 06FA04.	0.6	13
994	ANALYSIS OF THE FRACTIONAL-ORDER PARALLEL TANK CIRCUIT. Journal of Circuits, Systems and Computers, 2013, 22, 1350047.	1.0	4
995	Analysis and modeling of resistive switching mechanisms oriented to resistive random-access memory. Chinese Physics B, 2013, 22, 038401.	0.7	5
996	Mimic synaptic behavior with a single floating gate transistor: A MemFlash synapse. Journal of Applied Physics, 2013, 114, .	1.1	28
997	A QUANTUM-MECHANICAL MODEL FOR AN LC CIRCUIT WITH ELASTIC CAPACITOR. Modern Physics Letters B, 2013, 27, 1350138.	1.0	4

#	Article	IF	CITATIONS
998	MEMRISTOR MODELS IN A CHAOTIC NEURAL CIRCUIT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350052.	0.7	23
1000	Characteristics of Memristor Series-Parallel Connection Circuit with Applications. Applied Mechanics and Materials, 0, 284-287, 2485-2489.	0.2	2
1001	A GALLERY OF CHAOTIC OSCILLATORS BASED ON HP MEMRISTOR. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1330015.	0.7	65
1002	Periodic activation functions in memristor-based analog neural networks. , 2013, , .		12
1003	Excitatory and Inhibitory Memristive Synapses for Spiking Neural Networks., 2013,,.		19
1004	Memristor PUFs: A New Generation of Memory-based Physically Unclonable Functions. , 2013, , .		72
1005	Physical behaviour at the nanoscale: a model for fertile research. Nanotechnology, 2013, 24, 250201-250201.	1.3	0
1006	[From the Guest Editors]. IEEE Circuits and Systems Magazine, 2013, 13, 4-6.	2.6	O
1007	Beyond vonâ€Neumann Computing with Nanoscale Phaseâ€Change Memory Devices. Advanced Functional Materials, 2013, 23, 2248-2254.	7.8	336
1008	Spectroscopy of radiation defects in rutile TiO ₂ . Physica Status Solidi (B): Basic Research, 2013, 250, 843-849.	0.7	2
1009	Multilayer memristive/memcapacitive devices with engineered conduction fronts. EPJ Applied Physics, 2013, 62, 30102.	0.3	2
1011	An Elementary Note on Skin Hydration Measurement Using Memristive Effect. Healthcare Informatics: an International Journal, 2013, 2, 15-20.	0.8	8
1012	Simulative Study of Nonlinear Dynamics in Single Stage Boost Converter. International Journal of Chaos Control Modelling and Simulation, 2013, 2, 59-66.	0.1	1
1013	Characterization of electroforming-free titanium dioxide memristors. Beilstein Journal of Nanotechnology, 2013, 4, 467-473.	1.5	60
1014	Quasi-Linear Vacancy Dynamics Modeling and Circuit Analysis of the Bipolar Memristor. PLoS ONE, 2014, 9, e111607.	1.1	6
1015	Analysis of a Chaotic Memristor Based Oscillator. Abstract and Applied Analysis, 2014, 2014, 1-8.	0.3	3
1016	Hybrid Dislocated Control and General Hybrid Projective Dislocated Synchronization for Memristor Chaotic Oscillator System. Advances in Mathematical Physics, 2014, 2014, 1-10.	0.4	1
1017	Design and Construction of a Brain-Like Computer: A New Class of Frequency-Fractal Computing Using Wireless Communication in a Supramolecular Organic, Inorganic System. Information (Switzerland), 2014, 5, 28-100.	1.7	36

#	Article	IF	CITATIONS
1018	Digital model of TiO 2 memristor for fieldâ€programmable gate array. Journal of Engineering, 2014, 2014, 90-92.	0.6	4
1019	Performance Analysis of Memristor Models for RRAM Cell Array Design using SILVACO EDA. Jurnal Teknologi (Sciences and Engineering), 2014, 68, .	0.3	4
1020	NV-TCAM: Alternative interests and practices in NVM designs. , 2014, , .		14
1021	Power dissipation analysis of memristor for low power integrated circuit applications. , 2014, , .		3
1022	Low power high speed Ternary Content Addressable Memory design using 8 MOSFETs and 4 memristors - hybrid structure. , 2014, , .		7
1023	Analysis and modeling of resistive switching mechanism oriented to fault tolerance of resistive memory based on memristor. Chinese Physics B, 2014, 23, 038404.	0.7	2
1024	Modeling of TiO ₂ memristor: from analytic to numerical analyses. Semiconductor Science and Technology, 2014, 29, 125008.	1.0	25
1025	Synchronizing chaos in memristor based van der Pol oscillation circuits. , 2014, , .		1
1026	Memristor crossbar based multicore neuromorphic processors. , 2014, , .		36
1027	Iterative architecture for value iteration using memristors. , 2014, , .		0
1028	Using the multi-bit feature of memristors for register files in signed-digit arithmetic units. Semiconductor Science and Technology, 2014, 29, 104008.	1.0	23
1029	Design considerations/insights for memristor-based memory arrays. , 2014, , .		4
1030	One-bit non-volatile memory cell using memristor and transmission gates. , 2014, , .		8
1031	Hybrid CMOS-memristor 4T-NVSRAM cell for low power applications. , 2014, , .		3
1032	Bifurcations Leading to Nonlinear Oscillations in a 3D Piecewise Linear Memristor Oscillator. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1430001.	0.7	18
1033	If it's pinched it's a memristor. Semiconductor Science and Technology, 2014, 29, 104001.	1.0	448
1034	A novel CMOS-memristor based inverter circuit design. , 2014, , .		9
1035	Attractor flow analysis for recurrent neural network with back-to-back memristors. , 2014, , .		0

#	Article	IF	CITATIONS
1036	Overview of emerging nonvolatile memory technologies. Nanoscale Research Letters, 2014, 9, 526.	3.1	549
1037	Memristor-based redundant binary adder. , 2014, , .		6
1038	RECONFIGURABLE HARDWARE PLATFORM FOR EXPERIMENTAL TESTING AND VERIFYING OF MEMRISTOR-BASED CHAOTIC SYSTEMS. Journal of Circuits, Systems and Computers, 2014, 23, 1450145.	1.0	7
1039	Comparison on TiO<inf>2</inf> and TaO<inf>2</inf> based bipolar resistive switching devices. , 2014 , , .		2
1040	Building memristive neurons and synapses. , 2014, , .		1
1041	Synchronization of Hyperchaotic Memristor-Based Chua's Circuits. Applied Mechanics and Materials, 0, 644-650, 3485-3488.	0.2	1
1042	TiO ₂ -based memristors and ReRAM: materials, mechanisms and models (a review). Semiconductor Science and Technology, 2014, 29, 104004.	1.0	133
1043	Expression of Concern: Memristor memory trade-offs and design considerations. , 2014, , .		0
1044	The staircase memristor and its applications. , 2014, , .		2
1045	Modeling and device parameter design to improve reset time in binary-oxide memristors. Applied Physics A: Materials Science and Processing, 2014, 117, 1019-1023.	1.1	7
1046	Bipolar resistive switching behaviours in ZnMn2O4 film deposited on p+-Si substrate by chemical solution deposition. Bulletin of Materials Science, 2014, 37, 1657-1661.	0.8	14
1047	New non-destructive Read/Write circuit for Memristor-based memories. , 2014, , .		4
1048	Memristor-less current- and voltage-controlled meminductor emulators. , 2014, , .		24
1049	Mutator for transferring a memristor emulator into meminductive and memcapacitive circuits. Chinese Physics B, 2014, 23, 070702.	0.7	37
1050	Threshold flux-controlled memristor model and its equivalent circuit implementation. Chinese Physics B, 2014, 23, 118401.	0.7	13
1051	Mapping equivalent approach to analysis and realization of memristor-based dynamical circuit. Chinese Physics B, 2014, 23, 070503.	0.7	49
1052	Memristance controlling approach based on modification of linear <i>M</i> à€" <i>q</i> curve. Chinese Physics B, 2014, 23, 118402.	0.7	2
1053	Design THINGS for the Internet of Things & Design THINGS for the Internet of Things for the Internet		22

#	Article	IF	CITATIONS
1054	Analysis of memristor based model reference adaptive controller (MRACs)., 2014,,.		0
1055	Non-volatile, electric control of magnetism in Mn-substituted ZnO. Applied Physics Letters, 2014, 104, .	1.5	32
1056	Synchronization Control of Memristive Chaotic Circuits and Their Applications in Image Encryptions. , 2014, , 365-384.		0
1058	Breakthrough scientific research areas: Formalization of the concept and status validation criteria. Scientific and Technical Information Processing, 2014, 41, 194-200.	0.3	0
1059	Realizations of mutative 4-ports and their applications to memstor simulations. Analog Integrated Circuits and Signal Processing, 2014, 81, 29-42.	0.9	15
1060	Memristors in the Venus flytrap. Plant Signaling and Behavior, 2014, 9, e29204.	1.2	19
1061	Secure communication using memristor based chaotic circuit. , 2014, , .		10
1062	Charge transport and memristive properties of graphene quantum dots embedded in poly(3-hexylthiophene) matrix. Applied Physics Letters, 2014, 105, .	1.5	21
1063	Differential 1T2M memristor memory cell for single/multi-bit RRAM modules., 2014,,.		9
1064	Re-model fabricated memristor behavior in LT-SPICE and applied in logic circuit. , 2014, , .		6
1065	Logic with memory: and gates made of organic and inorganic memristive devices. Semiconductor Science and Technology, 2014, 29, 104009.	1.0	25
1066	Reduction and IR-drop compensations techniques for reliable neuromorphic computing systems. , 2014,		91
1067	Memristor Based van der Pol Oscillation Circuit. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1450154.	0.7	16
1068	Global Phase Portraits of Memristor Oscillators. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1450152.	0.7	11
1069	Impulsive Control and Synchronization of Memristor-Based Chaotic Circuits. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1450162.	0.7	28
1070	FIRST-ORDER MEMRISTOR–CAPACITOR FILTER CIRCUITS EMPLOYING HP MEMRISTOR. Journal of Circuits, Systems and Computers, 2014, 23, 1450116.	1.0	23
1071	A mutator-based meminductor emulator circuit. , 2014, , .		22
1072	On the performance of a hybrid memristor/MOS π-attenuator circuit. , 2014, , .		0

#	Article	IF	Citations
1073	Analog memristive time dependent learning using discrete nanoscale RRAM devices., 2014,,.		8
1074	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.	0.7	20
1075	Electro-grafted organic memristors: Properties and prospects for artificial neural networks based on STDP. , 2014, , .		9
1076	The short-term memory (d.c. response) of the memristor demonstrates the causes of the memristor frequency effect., 2014,,.		4
1077	Mechanism of Memristor with TiO _{2-x} /TiO ₂ /TiO _{2+x} Nano Thin Three Layers. Advanced Materials Research, 2014, 893, 178-181.	0.3	0
1078	Memristor based adders. , 2014, , .		19
1079	Research on a chaotic circuit based on an active TiO2memristor. Systems Science and Control Engineering, 2014, 2, 740-744.	1.8	4
1080	The memristor-based associative learning network with retention loss. , 2014, , .		2
1081	A new memristor model for content addressable memory. , 2014, , .		0
1082	Accuracy enhancement of pickett tunnelling barrier memristor model. , 2014, , .		2
1083	Memristor for Neuromorphic Applications: Models and Circuit Implementations., 2014,, 379-403.		4
1084	Horseshoe Chaos in a Simple Memristive Circuit. Journal of Applied Mathematics, 2014, 2014, 1-5.	0.4	O
1085	Taming the resistive switching in Fe/MgO/V/Fe magnetic tunnel junctions: An ab initio study. Journal of Magnetism and Magnetic Materials, 2014, 372, $167-172$.	1.0	1
1086	Exploring factored forms for sequential implication logic synthesis. , 2014, , .		0
1087	Logic synthesis and a generalized notation for memristor-realized material implication gates. , 2014, , .		28
1088	Memristive Devices: Switching Effects, Modeling, and Applications. , 2014, , 195-221.		4
1089	Self-organization and Emergence of Dynamical Structures in Neuromorphic Atomic Switch Networks. , 2014, , 173-209.		12
1090	Study of Memristive Elements Networks. Journal of Nano Research, 2014, 27, 5-14.	0.8	6

#	Article	IF	CITATIONS
1091	Generation and Nonlinear Dynamical Analyses of Fractional-Order Memristor-Based Lorenz Systems. Entropy, 2014, 16, 6240-6253.	1.1	31
1092	Neural Networks Realizations Using Memristors. , 2014, , .		6
1093	Ultrathin Ferroelectric Films: Growth, Characterization, Physics and Applications. Materials, 2014, 7, 6377-6485.	1.3	56
1094	Spike-Timing-Dependent-Plasticity in Hybrid Memristive-CMOS Spiking Neuromorphic Systems. , 2014, , 353-377.		1
1095	Towards leakage resiliency: memristor-based AES design for differential power attack mitigation. Proceedings of SPIE, 2014, , .	0.8	1
1096	Nanoscale computing architectures based on resistive switching devices. , 2014, , .		0
1097	Memristor-based programmable delay element. , 2014, , .		3
1098	Improved dual sided doped memristor: modelling and applications. Journal of Engineering, 2014, 2014, 219-226.	0.6	9
1099	Expression of Concern: Memristor state to logic mapping for optimal noise margin in memristor memories. , 2014 , , .		2
1100	On Hybrid Emulation of Mem-Systems. , 2014, , .		5
1101	A tantalum oxide memristor for artificial synapse applications. , 2014, , .		2
1102	Memristors as non-linear behavioral models for passive inter-modulation simulation. , 2014, , .		0
1103	GA optimized time delayed feedback control of chaos in a memristor based chaotic circuit. , 2014, , .		0
1104	A heterogeneous computing system with memristor-based neuromorphic accelerators. , 2014, , .		0
1105	The Memory-Conservation Theory of Memristance. , 2014, , .		8
1106	A memristor-based TCAM (ternary content addressable memory) cell. , 2014, , .		6
1107	Memristor content addressable memory. , 2014, , .		1
1108	Memristor in digital logic circuit: Fabrication and proof of concept. , 2014, , .		2

#	Article	IF	Citations
1109	Write scheme for multiple Complementary Resistive Switch (CRS) cells. , 2014, , .		3
1110	Tolerance to defective memristors in a neuromorphic learning circuit. , 2014, , .		9
1111	Memristor-MOS hybrid circuit redundant multiplier. , 2014, , .		2
1112	Study of dynamical phenomena in the Muthuswamy-Chua circuit. , 2014, , .		1
1113	CMOS compatible generic batch process towards flexible memory on bulk monocrystalline silicon (100). , 2014, , .		1
1114	BDD based synthesis of Boolean functions using memristors. , 2014, , .		46
1115	Resistorless memristor based oscillator. , 2014, , .		4
1116	Neuromorphic acceleration for context aware text image recognition. , 2014, , .		5
1117	Modelling the memristor at functional level by using homotopy methods. , 2014, , .		0
1118	Degenerate resistive switching and ultrahigh density storage in resistive memory. Applied Physics Letters, 2014, 105, .	1.5	6
1119	Research on OR logic operation based on NOR memristor memory array. , 2014, , .		0
1120	CMOS-based nanopower memristor dynamics emulator. , 2014, , .		6
1121	An Optimal Hardware Implementation for Active Learning Method Based on Memristor Crossbar Structures. IEEE Systems Journal, 2014, 8, 1190-1199.	2.9	14
1122	Sequential injection of domain walls into ferroelectrics at different bias voltages: Paving the way for "domain wall memristors― Journal of Applied Physics, 2014, 116, .	1.1	20
1123	Independent component analysis by memristor based neural networks. , 2014, , .		1
1124	Reconfigurable electromagnetics devices enabled by a non-linear dopant drift memristor. , 2014, , .		3
1125	Optimal condition of memristance enhancement circuit using external voltage source. AIP Advances, 2014, 4, 057117.	0.6	2
1126	Resistive switching characteristics of indiumâ€tinâ€oxide thin film devices. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1194-1199.	0.8	3

#	Article	IF	CITATIONS
1127	Neuromorphic crossbar circuit with nanoscale filamentary-switching binary memristors for speech recognition. Nanoscale Research Letters, 2014, 9, 629.	3.1	66
1128	A Native Stochastic Computing Architecture Enabled by Memristors. IEEE Nanotechnology Magazine, 2014, 13, 283-293.	1.1	85
1129	Internet based electronic prototyping system for memristor characterization. , 2014, , .		0
1130	An adjustable memristor model and its application in small-world neural networks. , 2014, , .		6
1131	Interval type-2 fuzzy modeling and chaotic synchronization of two different memristor-based Lorenz circuits. , 2014, , .		0
1132	Memristor-capacitor based startup circuit for voltage reference generators. , 2014, , .		3
1133	Interpreting area of pinched memristor hysteresis loop. Electronics Letters, 2014, 50, 74-75.	0.5	42
1134	Threshold adaptive transistor realized with RRAMs for neuromorphic circuits. , 2014, , .		1
1135	Bioengineered Tunable Memristor Based on Protein Nanocage. Small, 2014, 10, 277-283.	5.2	66
1136	Memristive Circuits for LDPC Decoding. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2014, 4, 412-426.	2.7	2
1137	<pre><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Ti</mml:mi><mml:mi>n</mml:mi> mathvariant="normal">O<mml:mrow><mml:mn>2</mml:mn><mml:mi>n</mml:mi><mml:mo>â°'</mml:mo></mml:mrow></mml:msub></mml:math></pre>		
1138	Total-ionizing-dose effects on the impedance of silverdoped chalcogenide programmable metallization cells. , 2014, , .		1
1139	Complete periodic adaptive antisynchronization of memristor-based neural networks with mixed time-varying delays. Canadian Journal of Physics, 2014, 92, 1337-1349.	0.4	14
1140	Memristor plasticity enables emergence of synchronization in neuromorphic networks. , 2014, , .		3
1141	Enabling back propagation training of memristor crossbar neuromorphic processors. , 2014, , .		58
1142	Elektronische Nervenzellen. Physik in Unserer Zeit, 2014, 45, 21-25.	0.0	2
1143	Memristors and Memristive Systems. , 2014, , .		109
1144	Nonlinear space charge dynamics in mixed ionic-electronic conductors: Resistive switching and ferroelectric-like hysteresis of electromechanical response. Journal of Applied Physics, 2014, 116, 066808.	1.1	29

#	Article	IF	Citations
1145	STDP learning rule based on memristor with STDP property. , 2014, , .		5
1146	Self-Organization in Autonomous, Recurrent, Firing-Rate CrossNets With Quasi-Hebbian Plasticity. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 819-824.	7.2	4
1147	Emergent spiking in non-ideal memristor networks. Microelectronics Journal, 2014, 45, 1401-1415.	1.1	18
1148	Spiking neuro-fuzzy clustering system and its memristor crossbar based implementation. Microelectronics Journal, 2014, 45, 1450-1462.	1.1	9
1149	Nonvolatile Boolean Logic Block Based on Ferroelectric Tunnel Memristor. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	20
1150	Resistance uniformity of TiO <inf>2</inf> memristor with different thin film thickness. , 2014, , .		1
1151	Qualitative SPICE modeling accounting for volatile dynamics of TiO <inf>2</inf> memristors., 2014,,.		1
1152	Coexistence of memory resistance and memory capacitance in TiO2 solid-state devices. Nanoscale Research Letters, 2014, 9, 552.	3.1	29
1153	Low power high speed ternary content addressable memory design using MOSFET and memristors. , 2014, , .		6
1154	Memristors as synapse emulators in the context of event-based computation. , 2014, , .		1
1155	Memristors for non-volatile memory and other applications. , 2014, , 370-397.		3
1156	An analytical model of memristors in plants. Plant Signaling and Behavior, 2014, 9, e972887.	1.2	27
1157	Implementation of complementary resistive switch for image matching through back-to-back connection of ITO/TiO2â ⁻ x/TiO2/ITO memristors. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1933-1940.	0.8	3
1158	Silicon neuron dedicated to memristive spiking neural networks. , 2014, , .		12
1159	Modeling of filamentary resistive memory by concentric cylinders with variable conductivity. Applied Physics Letters, 2014, 105, 183511.	1.5	5
1160	Memristors as non-linear behavioral models for passive inter-modulation simulation. , 2014, , .		0
1161	Comment: Is memristor a dynamic element?. Electronics Letters, 2014, 50, 1342-1344.	0.5	6
1162	Memristor pinched hysteresis loops: Touching points, Part I. , 2014, , .		5

#	Article	IF	CITATIONS
1163	Modeling and simulation of nanoelectronics devices in cognitive nanoinformatics. , 2014, , .		1
1164	The Art and Science of Constructing a Memristor Model. , 2014, , 93-104.		5
1165	Memristor-based ternary content addressable memory (mTCAM) for data-intensive computing. Semiconductor Science and Technology, 2014, 29, 104010.	1.0	26
1166	A Memristor-Based Chaotic System with Bifurcation Analysis. , 2014, , .		1
1167	MemFlash device: floating gate transistors as memristive devices for neuromorphic computing. Semiconductor Science and Technology, 2014, 29, 104011.	1.0	33
1168	Hybrid crossbar architecture for a memristor based memory. , 2014, , .		20
1169	Yield maximization of TiO _{2>/sub> memristor-based memory arrays., 2014,,.}		1
1170	INDEX AND SOLVABILITY OF UNCOUPLED CIRCUITS: A CHARACTERIZATION WITHOUT RESTRICTIONS ON THEIR PASSIVITY, TOPOLOGY OR CONTROLLING STRUCTURE. Journal of Circuits, Systems and Computers, 2014, 23, 1450087.	1.0	1
1171	Memristors in the electrical network of <i>Aloe vera </i> L Plant Signaling and Behavior, 2014, 9, e29056.	1.2	38
1172	On the mathematical modeling of memcapacitor bridge synapses. , 2014, , .		1
1173	The Neuro-Fuzzy Computing System With the Capacity of Implementation on a Memristor Crossbar and Optimization-Free Hardware Training. IEEE Transactions on Fuzzy Systems, 2014, 22, 1272-1287.	6.5	26
1174	Effect of device, size, activation energy, temperature, and frequency on memristor switching time. , 2014, , .		9
1175	Reliability challenges in design of memristive memories. , 2014, , .		40
1176	Hardware-based artificial neural networks for size, weight, and power constrained platforms. Proceedings of SPIE, 2014, , .	0.8	1
1177	Implicating logic functions with memristors. , 2014, , .		0
1178	Power efficient architecture for network intrusion detection system. , 2014, , .		5
1180	Memristor-Based Addition and Multiplication. , 2014, , 473-486.		1
1181	STT-RAM Cache Hierarchy Design and Exploration with Emerging Magnetic Devices. , 2014, , 169-199.		1

#	Article	IF	CITATIONS
1182	Unfolding the Threshold Switching Behavior of a Memristor. Communications in Computer and Information Science, 2014, , 156-164.	0.4	7
1183	Memristor crossbar based low cost classifiers and their applications. , 2014, , .		0
1184	lf It's Pinched It's a Memristor. , 2014, , 17-90.		51
1185	Memristor Device Engineering and CMOS Integration for Reconfigurable Logic Applications. , 2014, , 327-351.		3
1186	Neuromorphic hardware acceleration enabled by emerging technologies (Invited paper). , 2014, , .		0
1187	Fabrication, characterization, and modeling of memristor devices. , 2014, , .		7
1188	Memristor Bridge-Based Artificial Neural Weighting Circuit., 2014,, 249-265.		2
1189	A methodology for memristance calculation. Turkish Journal of Electrical Engineering and Computer Sciences, 2014, 22, 121-131.	0.9	5
1190	Spontaneous Synchronization in Two Mutually Coupled Memristor-Based Chua's Circuits: Numerical Investigations. Mathematical Problems in Engineering, 2014, 2014, 1-15.	0.6	7
1191	Synchronization and Lag Synchronization of Hyperchaotic Memristor-Based Chua's Circuits. Mathematical Problems in Engineering, 2014, 2014, 1-7.	0.6	2
1192	Non-Volatile Threshold Adaptive Transistors with Embedded RRAM. Chinese Physics Letters, 2014, 31, 108504.	1.3	3
1193	Efficacy of memristive crossbars for neuromorphic processors. , 2014, , .		17
1194	Bio-inspired computing with resistive memories — models, architectures and applications. , 2014, , .		8
1195	Coherer is the elusive memristor. , 2014, , .		16
1196	Event-based control for memristive systems. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 3431-3443.	1.7	15
1197	Memristor-Based Multithreading. IEEE Computer Architecture Letters, 2014, 13, 41-44.	1.0	18
1198	Expanded HP memristor model and simulation in STDP learning. Neural Computing and Applications, 2014, 24, 51-57.	3.2	2
1199	Synchronous Non-Volatile Logic Gate Design Based on Resistive Switching Memories. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 443-454.	3.5	90

#	Article	IF	CITATIONS
1200	Memristive fuzzy edge detector. Journal of Real-Time Image Processing, 2014, 9, 479-489.	2.2	13
1201	Global exponential stability of a class of memristive neural networks with time-varying delays. Neural Computing and Applications, 2014, 24, 1707-1715.	3.2	47
1202	Exponential synchronization of coupled memristive neural networks with time delays. Neural Computing and Applications, 2014, 24, 1421-1430.	3.2	64
1203	A family of memristorâ€based reactanceâ€less oscillators. International Journal of Circuit Theory and Applications, 2014, 42, 1103-1122.	1.3	59
1204	STT-RAM Cache Hierarchy With Multiretention MTJ Designs. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2014, 22, 1281-1293.	2.1	36
1205	An electronic implementation of amoeba anticipation. Applied Physics A: Materials Science and Processing, 2014, 114, 565-570.	1.1	14
1206	Analog memristive memory with applications in audio signal processing. Science China Information Sciences, 2014, 57, 1-15.	2.7	28
1207	A memristor-based architecture combining memory and image processing. Science China Information Sciences, 2014, 57, 1-12.	2.7	16
1208	Meminductor Response Under Periodic Current Excitations. Circuits, Systems, and Signal Processing, 2014, 33, 1573-1583.	1.2	20
1209	A Weakly Connected Memristive Neural Network for Associative Memory. Neural Processing Letters, 2014, 40, 275-288.	2.0	2
1210	Two Memristor SPICE Models and Their Applications in Microwave Devices. IEEE Nanotechnology Magazine, 2014, 13, 607-616.	1.1	40
1211	Synchronization control of memristor-based recurrent neural networks with perturbations. Neural Networks, 2014, 53, 8-14.	3.3	96
1212	On the Loading of Slime Mold Physarum polycephalum with Microparticles for Unconventional Computing Application. BioNanoScience, 2014, 4, 92-96.	1.5	12
1213	Hybrid memristor/RTD structure-based cellular neural networks with applications in image processing. Neural Computing and Applications, 2014, 25, 291-296.	3.2	31
1214	Memristor-based combinational circuits: A design methodology for encoders/decoders. Microelectronics Journal, 2014, 45, 59-70.	1.1	35
1215	Memristive Biosensors Under Varying Humidity Conditions. IEEE Transactions on Nanobioscience, 2014, 13, 19-30.	2.2	33
1216	Compact modelling of ferroelectric tunnel memristor and its use for neuromorphic simulation. Applied Physics Letters, 2014, 104, 053505.	1.5	32
1217	A Memristor-Based Chaotic System with Boundary Conditions. , 2014, , 351-364.		18

#	Article	IF	CITATIONS
1218	Storage of Electrical Information in Metal–Organicâ€Framework Memristors. Angewandte Chemie - International Edition, 2014, 53, 4437-4441.	7.2	137
1219	DYNAMIC CHARACTER ANALYSIS OF A LDR, MEMRISTOR-BASED CHAOTIC SYSTEM. Journal of Circuits, Systems and Computers, 2014, 23, 1450085.	1.0	16
1220	Redox Nonâ€Innocence of Coordinated 2â€(Arylazo) Pyridines in Iridium Complexes: Characterization of Redox Series and an Insight into Voltageâ€Induced Current Characteristics. Chemistry - A European Journal, 2014, 20, 6103-6111.	1.7	45
1221	Exponential stability of stochastic memristor-based recurrent neural networks with time-varying delays. Neurocomputing, 2014, 138, 92-98.	3.5	45
1222	On the periodic dynamics of memristor-based neural networks with time-varying delays. Information Sciences, 2014, 279, 358-373.	4.0	53
1223	Progress in Industrial Mathematics at ECMI 2012. Mathematics in Industry, 2014, , .	0.1	0
1224	Memristorâ€Integrated Voltageâ€Stabilizing Supercapacitor System. Advanced Materials, 2014, 26, 4999-5004.	11.1	26
1225	Lagrange stability of neural networks with memristive synapses and multiple delays. Information Sciences, 2014, 280, 135-151.	4.0	43
1226	A Floating Analog Memristor Emulator Circuit. IEEE Transactions on Circuits and Systems II: Express Briefs, 2014, 61, 309-313.	2.2	154
1227	Cellular Memristive Dynamical Systems (CMDS). International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1430016.	0.7	11
1228	Dynamics of Memristor Circuits. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1430015.	0.7	36
1229	Self-organized atomic switch networks. Japanese Journal of Applied Physics, 2014, 53, 01AA02.	0.8	20
1230	Detection, diagnosis, and repair of faults in memristor-based memories. , 2014, , .		24
1231	Global Mittag-Leffler stability and synchronization of memristor-based fractional-order neural networks. Neural Networks, 2014, 51, 1-8.	3.3	477
1232	Spin-torque building blocks. Nature Materials, 2014, 13, 11-20.	13.3	539
1233	Macromodeling of the memristor using piecewise volterra series. Microelectronics Journal, 2014, 45, 325-329.	1.1	10
1234	Drop-coated titanium dioxide memristors. Materials Chemistry and Physics, 2014, 143, 524-529.	2.0	51
1235	Functional differential inclusions and dynamic behaviors for memristor-based BAM neural networks with time-varying delays. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 1279-1300.	1.7	76

#	Article	IF	CITATIONS
1236	Realizing a family of transition-metal-oxide memristors based on volatile resistive switching at a rectifying metal/oxide interface. Journal Physics D: Applied Physics, 2014, 47, 045108.	1.3	4
1237	Exponential synchronization of memristive Cohen–Grossberg neural networks with mixed delays. Cognitive Neurodynamics, 2014, 8, 239-249.	2.3	171
1238	Perovskite Oxides as Resistive Switching Memories: A Review. Ferroelectrics, 2014, 471, 23-64.	0.3	86
1239	Memristor Crossbar Based Programmable Interconnects. , 2014, , .		2
1240	BiFeO ₃ epitaxial thin films and devices: past, present and future. Journal of Physics Condensed Matter, 2014, 26, 473201.	0.7	231
1241	Memristor based memories: Technology, design and test. , 2014, , .		42
1242	Memristive behavior of HF-etched sputtered titania thin films. , 2014, , .		0
1244	Design, Test, and Repair of MLUT (Memristor Look-Up Table) Based Asynchronous Nanowire Reconfigurable Crossbar Architecture. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2014, 4, 427-437.	2.7	9
1245	Compact Nonlinear Model of an Implantable Electrode Array for Spinal Cord Stimulation (SCS). IEEE Transactions on Biomedical Circuits and Systems, 2014, 8, 382-390.	2.7	24
1246	Oxide Nanomaterials and their Applications as a Memristor. Solid State Phenomena, 0, 222, 67-97.	0.3	24
1247	Building Memristor Applications: From Device Model to Circuit Design. IEEE Nanotechnology Magazine, 2014, 13, 1154-1162.	1.1	18
1248	Analytic modeling of memristor variability for robust memristor systems designs. , 2014, , .		4
1249	Memristor Crossbar-Based Neuromorphic Computing System: A Case Study. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 1864-1878.	7.2	314
1250	Determining the switching properties of the minimum function from a single VI characteristic. , 2014, , .		O
1251	Advanced technologies for brain-inspired computing. , 2014, , .		14
1252	Frequency and time domain characteristics of memristor-based filters. , 2014, , .		1
1253	Switching behavior of lateral-structured zinc oxide-based memristive device. , 2014, , .		1
1254	Memristor content addressable memory. , 2014, , .		7

#	Article	IF	CITATIONS
1255	A memristor-based LUT for FPGAs. , 2014, , .		17
1256	Microwave oven fabricated hybrid memristor devices for non-volatile memory storage. Materials Research Express, 2014, 1, 046305.	0.8	11
1257	Dual-sided doped memristor and it's SPICE modelling for improved electrical properties. , 2014, , .		1
1258	On the generalization of composite memristive network structures for computational analog/digital circuits and systems. Microelectronics Journal, 2014, 45, 1380-1391.	1.1	24
1259	3D integration of planar crossbar memristive devices with CMOS substrate. Nanotechnology, 2014, 25, 405202.	1.3	28
1260	Arbitrary Waveform Generation Using Memristive Cross Bar Array. , 2014, , .		0
1261	Memristor applied in delay locked loop for high lock speed and wide frequency range. , 2014, , .		0
1262	Annealing temperature dependence of resistive switching behavior for sol-gel spin coated zinc oxide thin films. , 2014, , .		2
1263	Analog signal processing on a FPAA/memristor hybrid circuit., 2014,,.		2
1264	Algebraic conditions for synchronization stability of memristive neural networks. , 2014, , .		2
1265	Fingerprints of a memristor. , 2014, , .		2
1266	I-V characteristic effects of fluidic-based memristor for glucose concentration detection. , 2014, , .		1
1267	Memristive multistate pipeline register. , 2014, , .		1
1268	H-ARC: A non-volatile memory based cache policy for solid state drives. , 2014, , .		29
1269	Implementation of memristive neural networks with spike-rate-dependent plasticity synapses., 2014,,.		13
1270	A fully symbolic homotopy-based memristor model for applications to circuit simulation. , 2014, , .		3
1271	Linearly separable pattern classification using memristive crossbar circuits. , 2014, , .		2
1272	A Weighted Sensing Scheme for ReRAM-Based Cross-Point Memory Array. , 2014, , .		26

#	Article	IF	CITATIONS
1273	MAGIC—Memristor-Aided Logic. IEEE Transactions on Circuits and Systems II: Express Briefs, 2014, 61, 895-899.	2.2	542
1274	A theoretical approach to memristor systems. , 2014, , .		2
1275	Towards Secure Analog Designs: A Secure Sense Amplifier Using Memristors., 2014,,.		27
1276	Memfractance: A Mathematical Paradigm for Circuit Elements with Memory. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1430023.	0.7	90
1277	Memristive switching: physical mechanisms and applications. Modern Physics Letters B, 2014, 28, 1430003.	1.0	24
1278	Memristive learning and memory functions in polyvinyl alcohol polymer memristors. AIP Advances, 2014, 4, .	0.6	20
1279	Characteristics of titanium oxide memristor with coexistence of dopant drift and a tunnel barrier. Chinese Physics B, 2014, 23, 068401.	0.7	8
1280	The state of the art of memristive neural systems: Models and applications. , 2014, , .		0
1281	A novel non-destructive readout circuit for Memristor-based memory arrays., 2014,,.		5
1282	Neuromemristive Extreme Learning Machines for Pattern Classification. , 2014, , .		10
1283	Memristor modelling., 2014,,.		10
1284	Chaos in a memcapacitor based circuit. , 2014, , .		22
1285	Voltage-controlled oxide barriers in organic/hybrid spin valves based on tunneling anisotropic magnetoresistance. Physical Review B, 2014, 90, .	1.1	15
1286	On memristor ideality and reciprocity. Microelectronics Journal, 2014, 45, 1363-1371.	1.1	19
1287	Fabrication and characterization of tungsten-oxide-based memristors for neuromorphic circuits. , 2014, , .		1
1288	Memcapacitor response under step and sinusoidal voltage excitations. Microelectronics Journal, 2014, 45, 1372-1379.	1.1	18
1289	Implementing a memristive Van der Pol oscillator coupled to a linear oscillator: synchronization and application to secure communication. Physica Scripta, 2014, 89, 035201.	1.2	28
1290	Memristive behaviors in Pt/BaTiO3/Nb:SrTiO3 ferroelectric tunnel junctions. Applied Physics Letters, 2014, 105, .	1.5	47

#	Article	IF	CITATIONS
1291	A memristor-based TCAM (Ternary Content Addressable Memory) cell. , 2014, , .		11
1292	One-Dimensional Titanium Dioxide Nanomaterials: Nanotubes. Chemical Reviews, 2014, 114, 9385-9454.	23.0	1,045
1293	Exploiting Memristive BiFeO ₃ Bilayer Structures for Compact Sequential Logics. Advanced Functional Materials, 2014, 24, 3357-3365.	7.8	116
1295	Beyond series and parallel: Coupling as a third relation in memristive systems. , 2014, , .		13
1296	Tuning Resistive Switching Characteristics of Tantalum Oxide Memristors through Si Doping. ACS Nano, 2014, 8, 10262-10269.	7.3	106
1297	Influence of the surface roughness of the bottom electrode on the resistive-switching characteristics of Al/Al2O3/Al and Al/Al2O3/W structures fabricated on glass at 300 ŰC. Microelectronics Reliability, 2014, 54, 2747-2753.	0.9	23
1298	Electrochemical model of the polyaniline based organic memristive device. Journal of Applied Physics, 2014, 116, 064507.	1,1	28
1299	Corrected and accurate Verilog-A for linear dopant drift model of memristors. , 2014, , .		11
1300	Evolving Spiking Networks with Variable Resistive Memories. Evolutionary Computation, 2014, 22, 79-103.	2.3	24
1301	Self-formation of sub-10 nm nanogaps based on silicidation. Nanotechnology, 2014, 25, 115201.	1.3	1
1302	Operational characteristics of multi-memristor circuits. , 2014, , .		1
1303	A phenomenological memristor model for short-term/long-term memory. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2924-2930.	0.9	34
1304	Gas Discharge Lamps Are Volatile Memristors. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 2066-2073.	3.5	34
1305	Digital arithmetic circuit and elimination of improper shutdown of PC using memristor., 2014,,.		0
1306	Dynamic computing random access memory. Nanotechnology, 2014, 25, 285201.	1.3	33
1307	Hybrid CMOS - Memristor based configurable logic block design. , 2014, , .		1
1308	Oxide Resistive Memory with Functionalized Graphene as Builtâ€in Selector Element. Advanced Materials, 2014, 26, 3693-3699.	11.1	69
1309	Ferroelectric tunnel memristor-based neuromorphic network with 1T1R crossbar architecture. , 2014, , .		16

#	Article	IF	CITATIONS
1310	A Fractional-Order Chaotic Circuit Based on Memristor and Its Generalized Projective Synchronization. Lecture Notes in Computer Science, 2014, , 838-844.	1.0	2
1311	Dithienopyrroleâ€∤Benzodithiopheneâ€Based Donor–Acceptor Polymers for Memristor. ChemPlusChem, 2014, 79, 1263-1270.	1.3	27
1312	Thermally- or optically-biased memristive switching in two-terminal VO2 devices. Current Applied Physics, 2014, 14, 1251-1256.	1.1	15
1313	How Can the Hysteresis Loop of the Ideal Memristor Be Pinched?. IEEE Transactions on Circuits and Systems II: Express Briefs, 2014, 61, 491-495.	2.2	17
1314	Applications of solid-state memristors in tunable filters. , 2014, , .		7
1315	Global exponential almost periodicity of a delayed memristor-based neural networks. Neural Networks, 2014, 60, 33-43.	3.3	33
1316	Ferroelectric tunnel junctions for information storage and processing. Nature Communications, 2014, 5, 4289.	5.8	621
1317	Design and Optimization of Nonvolatile Multibit 1T1R Resistive RAM. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2014, 22, 1815-1828.	2.1	95
1318	Applicability of Well-Established Memristive Models for Simulations of Resistive Switching Devices. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 2402-2410.	3.5	91
1319	Logic operations in memory using a memristive Akers array. Microelectronics Journal, 2014, 45, 1429-1437.	1.1	68
1320	State estimation of memristorâ€based recurrent neural networks with timeâ€varying delays based on passivity theory. Complexity, 2014, 19, 32-43.	0.9	53
1321	Memristor to control delay of delay element. , 2014, , .		0
1322	A Floating Memristor Emulator Based Relaxation Oscillator. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 2888-2896.	3.5	124
1323	Hysteresis loop and cross-talk of organic memristive devices. Microelectronics Journal, 2014, 45, 1396-1400.	1.1	12
1324	ZnO-porous silicon nanocomposite for possible memristive device fabrication. Nanoscale Research Letters, 2014, 9, 437.	3.1	29
1325	Memcapacitor based CMOS neural amplifier. , 2014, , .		2
1326	Realization of the Meminductor. ACS Nano, 2014, 8, 10043-10047.	7.3	30
1327	Comparative review of the TiO2 and the spintronic memristor devices. , 2014, , .		5

#	Article	IF	CITATIONS
1328	Memristor Modeling - Static, Statistical, and Stochastic Methodologies. , 2014, , .		1
1329	Finite-time stability analysis of fractional-order complex-valued memristor-based neural networks with time delays. Nonlinear Dynamics, 2014, 78, 2823-2836.	2.7	155
1330	Neurons in Polymer: Hardware Neural Units Based on Polymer Memristive Devices and Polymer Transistors. IEEE Transactions on Electron Devices, 2014, 61, 3513-3519.	1.6	22
1331	The flyby anomaly and the effect of a topological torsion current. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 3007-3011.	0.9	14
1332	Memristors in plants. Plant Signaling and Behavior, 2014, 9, e28152.	1.2	48
1333	A new memristor emulator and its application in digital modulation. Analog Integrated Circuits and Signal Processing, 2014, 80, 577-584.	0.9	87
1334	Memory effect in carbon quantum DOT–PEG1500N composites. Current Applied Physics, 2014, 14, 1625-1632.	1.1	5
1335	Noise cancellation of memristive neural networks. Neural Networks, 2014, 60, 74-83.	3.3	28
1336	Mutator-Based Meminductor Emulator for Circuit Applications. Circuits, Systems, and Signal Processing, 2014, 33, 2363-2383.	1.2	44
1337	Memristor crossbar-based unsupervised image learning. Neural Computing and Applications, 2014, 25, 393-400.	3.2	32
1338	Synchronization of memristive competitive neural networks with different time scales. Neural Computing and Applications, 2014, 25, 1163-1168.	3.2	27
1339	Memristor-based chaotic neural networks for associative memory. Neural Computing and Applications, 2014, 25, 1437-1445.	3.2	26
1340	Synchronization and Waves in a Ring of Diffusively Coupled Memristor-Based Chua's Circuits. Acta Applicandae Mathematicae, 2014, 132, 83-94.	0.5	12
1341	Programmable discrete-time type I and type II FIR filter design on the memristor crossbar structure. Analog Integrated Circuits and Signal Processing, 2014, 79, 529-541.	0.9	8
1342	Double-compound synchronization of six memristor-based Lorenz systems. Nonlinear Dynamics, 2014, 77, 1519-1530.	2.7	73
1343	Observer-based synchronization of memristive systems with multiple networked input and output delays. Nonlinear Dynamics, 2014, 78, 541-554.	2.7	19
1344	On hyperchaos in a small memristive neural network. Nonlinear Dynamics, 2014, 78, 1087-1099.	2.7	93
1345	lon transport-related resistive switching in film sandwich structures. Science Bulletin, 2014, 59, 2363-2382.	1.7	9

#	Article	IF	CITATIONS
1346	Memristorâ€based neuron circuit and method for applying learning algorithm in SPICE. Electronics Letters, 2014, 50, 492-494.	0.5	37
1347	Enhanced memristive performance of individual hexagonal tungsten trioxide nanowires by water adsorption based on Grotthuss mechanism. Materials Research Express, 2014, 1, 025025.	0.8	12
1348	Liquid Phase Electro-Epitaxy of Memristive LiNbO ₂ Crystals. Crystal Growth and Design, 2014, 14, 2218-2222.	1.4	13
1349	Origin of the OFF state variability in ReRAM cells. Journal Physics D: Applied Physics, 2014, 47, 145102.	1.3	25
1350	Self-powered electrochemical memristor based on a biofuel cell – towards memristors integrated with biocomputing systems. Chemical Communications, 2014, 50, 4816.	2.2	37
1351	Exponential Adaptive Lag Synchronization of Memristive Neural Networks via Fuzzy Method and Applications in Pseudorandom Number Generators. IEEE Transactions on Fuzzy Systems, 2014, 22, 1704-1713.	6.5	253
1352	Adaptive synchronization of fractional-order memristor-based Chua's system. Systems Science and Control Engineering, 2014, 2, 291-296.	1.8	18
1353	Synchronization of fractional-order different memristor-based chaotic systems using active control. Canadian Journal of Physics, 2014, 92, 1688-1695.	0.4	14
1354	Passivity and Passification of Memristor-Based Recurrent Neural Networks With Time-Varying Delays. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 2099-2109.	7.2	106
1355	Large-Scale Memristive Associative Memories. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2014, 22, 562-574.	2.1	33
1356	Stability of delayed memristive neural networks with time-varying impulses. Cognitive Neurodynamics, 2014, 8, 429-436.	2.3	43
1357	Bivariate-continuous-tunable interface memristor based on Bi2S3 nested nano-networks. Nano Research, 2014, 7, 953-962.	5.8	25
1358	Nano-Crossbar Memories Comprising Parallel/Serial Complementary Memristive Switches. BioNanoScience, 2014, 4, 166-179.	1.5	22
1359	Effect of light-induced drop in electrical resistance of bulk SrTiO3 crystals. Physics of the Solid State, 2014, 56, 682-691.	0.2	9
1360	Modular Structure of Compact Model <newline></newline> for Memristive Devices. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 1390-1399.	3. 5	10
1361	A new DDCC based memristor emulator circuit and its applications. Microelectronics Journal, 2014, 45, 282-287.	1.1	148
1362	Isothermal Switching and Detailed Filament Evolution in Memristive Systems. Advanced Materials, 2014, 26, 4486-4490.	11.1	53
1363	Towards neuromorphic electronics: Memristors on foldable silicon fabric. Microelectronics Journal, 2014, 45, 1392-1395.	1.1	22

#	Article	IF	Citations
1364	Superconducting Memristors. Physical Review Applied, 2014, 2, .	1.5	40
1365	Memristor Multiport Readout: A Closed-Form Solution for Sneak Paths. IEEE Nanotechnology Magazine, 2014, 13, 274-282.	1.1	73
1366	A Memristor SPICE Model Accounting for Volatile Characteristics of Practical ReRAM. IEEE Electron Device Letters, 2014, 35, 135-137.	2.2	51
1367	Complementary Resistive Switch-Based Smart Sensor Search Engine. IEEE Sensors Journal, 2014, 14, 1639-1646.	2.4	16
1368	Cluster beam synthesis of metal and metal-oxide nanoparticles for emerging memories. Solid-State Electronics, 2014, 101, 95-105.	0.8	12
1369	Memristor-Based Material Implication (IMPLY) Logic: Design Principles and Methodologies. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2014, 22, 2054-2066.	2.1	453
1370	A Universal Mutator for Transformations Among Memristor, Memcapacitor, and Meminductor. IEEE Transactions on Circuits and Systems II: Express Briefs, 2014, 61, 758-762.	2.2	66
1371	A Circuit Model of the Memcapacitor. Applied Mechanics and Materials, 0, 644-650, 3426-3429.	0.2	5
1372	Predicting Limits for Memristor On–Off Resistances Consistent with Linear Drift Model. IETE Journal of Research, 2014, 60, 42-49.	1.8	2
1373	Periodicity and dissipativity for memristor-based mixed time-varying delayed neural networks via differential inclusions. Neural Networks, 2014, 57, 12-22.	3.3	49
1374	A fast operation of nanometer-scale metallic memristors: highly transparent conductance channels in Ag ₂ S devices. Nanoscale, 2014, 6, 2613-2617.	2.8	23
1375	Comprehensive Physical Model of Dynamic Resistive Switching in an Oxide Memristor. ACS Nano, 2014, 8, 2369-2376.	7. 3	388
1376	Probing anodic oxidation kinetics and nanoscale heterogeneity within TiO2 films by Conductive Atomic Force Microscopy and combined techniques. Electrochimica Acta, 2014, 129, 203-210.	2.6	16
1377	Classification and refined singularity of positive solutions for nonlinear Maxwell equations arising in mesoscopic electromagnetism. Journal of Functional Analysis, 2014, 266, 177-198.	0.7	4
1378	Memristive sensors for pH measure in dry conditions. Surface Science, 2014, 624, 76-79.	0.8	28
1379	Polymer memristor for information storage and neuromorphic applications. Materials Horizons, 2014, 1, 489.	6.4	209
1380	Attractivity Analysis of Memristor-Based Cellular Neural Networks With Time-Varying Delays. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 704-717.	7.2	163
1381	Bulk mixed ion electron conduction in amorphous gallium oxide causes memristive behaviour. Nature Communications, 2014, 5, 3473.	5.8	119

#	Article	IF	CITATIONS
1382	Memristor Crossbar Architecture for Synchronous Neural Networks. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 2390-2401.	3.5	46
1383	Passivity and passification of memristor-based complex-valued recurrent neural networks with interval time-varying delays. Neurocomputing, 2014, 144, 391-407.	3.5	49
1384	Synchronization of memristor-based recurrent neural networks with two delay components based on second-order reciprocally convex approach. Neural Networks, 2014, 57, 79-93.	3.3	100
1385	A new memristor-based high-pass filter/amplifier: Its analytical and dynamical models. , 2014, , .		9
1386	New results on passivity analysis of memristor-based neural networks with time-varying delays. Neurocomputing, 2014, 144, 208-214.	3.5	25
1387	Existence and asymptotic behavior of solutions for nonlinear Maxwell equations arising in mesoscopic electromagnetism. Nonlinear Analysis: Real World Applications, 2014, 20, 99-111.	0.9	2
1388	Memristorâ€based voltageâ€controlled relaxation oscillators. International Journal of Circuit Theory and Applications, 2014, 42, 1092-1102.	1.3	46
1389	Hyperchaos and horseshoe in a 4D memristive system with a line of equilibria and its implementation. International Journal of Circuit Theory and Applications, 2014, 42, 1172-1188.	1.3	110
1390	Programmable ferroelectric tunnel memristor. Frontiers in Physics, 2014, 2, .	1.0	19
1392	Memristor SPICE model with tukey window function for stable analysis. , 2014, , .		2
1394	Emergence of synchronization in bio-inspired memristor-coupled oscillatory cells. Nonlinear Theory and Its Applications IEICE, 2014, 5, 292-308.	0.4	2
1395	Computer assisted proof of chaos in the Muthuswamy-Chua memristor circuit. Nonlinear Theory and Its Applications IEICE, 2014, 5, 309-319.	0.4	1
1396	Port-Hamiltonian Systems Theory: An Introductory Overview. Foundations and Trends in Systems and Control, 2014, 1, 173-378.	3.8	366
1397	Analysis and Synthesis of Chaotic Circuits using Memristor Properties. Journal of Electrical Engineering, 2014, 65, 129-136.	0.4	4
1399	Some Regularities of the Spectral Content of the Responses of Memristive Systems to Sinusoidal Excitation. , 2014 , , .		1
1400	Memristor based ternary content addressable memory (MTCAM) Cell., 2015,,.		1
1401	High Roff/Ron ratio liquid based memristor sensor using sol gel spin coating technique., 2015,,.		4
1402	Memristor emulator based on single CCII. , 2015, , .		17

#	Article	IF	CITATIONS
1403	Design and analysis of memristor-based min-max circuit. , 2015, , .		3
1404	SPICE analysis of dense memristor crossbars for low power neuromorphic processor designs. , 2015, , .		12
1405	A new simple emulator circuit for current controlled memristor. , 2015, , .		11
1406	Multifunctional, self-assembled oxide nanocomposite thin films and devices. MRS Bulletin, 2015, 40, 736-745.	1.7	70
1407	Power Minimization of a Memristor-Based Wien Bridge Oscillator through a Simscape Framework. , 2015, , .		3
1408	Low power differential three transistors two memristors based RRAM cell. , 2015, , .		1
1409	Yield optimization of spintronic memristor-based memory arrays. , 2015, , .		3
1410	Impulsive control of memristive systems with variable delays. , 2015, , .		0
1411	Design of cellular neural network architecture using memristors. , 2015, , .		0
1412	Memristive based device arrays combined with Spike based coding can enable efficient implementations of embedded neuromorphic circuits., 2015,,.		4
1413	Impact of memristor switching noise in a neuromorphic crossbar. , 2015, , .		8
1414	Lithium based memristive device. , 2015, , .		9
1415	I/O-Cache: A Non-volatile Memory Based Buffer Cache Policy to Improve Storage Performance. , 2015, , .		5
1416	SPICE model of memristive device using Tukey window function. IEICE Electronics Express, 2015, 12, 20150149-20150149.	0.3	12
1417	Memristors' Potential for Multi-bit Storage and Pattern Learning. , 2015, , .		13
1418	SPICE model for dual-extended memristor. , 2015, , . <mml:math <="" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td></td><td>1</td></mml:math>		1
1419 1420	display="inline"> <mml:mrow><mml:mi>DFT</mml:mi><mml:mo>+</mml:mo><mml:mi>U</mml:mi></mml:mrow> <mml:mrow><mml:msub><mml:mrow><mml:mi>Ti</mml:mi></mml:mrow><mml:msub><mml:msub><mml:mrow><mml:mi>7</mml:mi></mml:mrow></mml:msub><td>:mn.54<td>ıml:mn></td></td></mml:msub></mml:msub></mml:mrow>	:mn.54 <td>ıml:mn></td>	ıml:mn>
	Causes memistive behavior. Physical Review 6, 2013, 32, .		

#	Article	IF	CITATIONS
1421	Neuromorphic behavior in percolating nanoparticle films. Physical Review E, 2015, 92, 052134.	0.8	27
1422	Survey on role of Memristor in electronics. , 2015, , .		2
1423	An Omnipotent Memristor Model with Controllable Window Functions., 2015,,.		7
1424	Forming compliance dominated memristive switching through interfacial reaction in Ti/TiO2/Au structure. Journal of Applied Physics, 2015, 118, .	1.1	19
1425	Influence of Different Sol-gel Spin Coating Speed on Memristive Behaviour of Pt/TiO ₂ /ZnO/ITO Device. IOP Conference Series: Materials Science and Engineering, 2015, 99, 012020.	0.3	1
1426	Nonvolatile Memory Based on Polymer-Suspended Graphene Nanoplatelets with Fractional and Integer Quantum Conductance at 300K and Zero Magnetic Field. ECS Transactions, 2015, 69, 1-9.	0.3	1
1427	Transition Metal Oxide (TMO) Thin Film Memristor on Cu Substrate Using Dilute Electrodeposition Method. Materials Transactions, 2015, 56, 1302-1306.	0.4	7
1428	Periodicity, chaos, and multiple attractors in a memristor-based Shinriki's circuit. Chaos, 2015, 25, 103126.	1.0	184
1429	In-operando synchronous time-multiplexed O K-edge x-ray absorption spectromicroscopy of functioning tantalum oxide memristors. Journal of Applied Physics, 2015, 118, .	1.1	25
1430	Kinetic simulation of filament growth dynamics in memristive electrochemical metallization devices. Journal of Applied Physics, 2015, 118, .	1.1	26
1431	Switching Behavior of Titania-Zinc Oxide Composites Thin Films. Applied Mechanics and Materials, 0, 749, 308-312.	0.2	4
1432	Utilizing multiple state variables to improve the dynamic range of analog switching in a memristor. Applied Physics Letters, 2015, 107, .	1.5	88
1433	The Effect of the Sol-gel Spincoating Deposition Technique on the Memristive Behaviour of ZnO-based Memristive Device. IOP Conference Series: Materials Science and Engineering, 2015, 99, 012022.	0.3	3
1434	The effect of irradiation with H+ and Ne+ ions on resistive switching in metal–insulator–metal memristive structures based on SiO x. Technical Physics Letters, 2015, 41, 957-960.	0.2	3
1435	Offset reduction on memristor emulator circuits. , 2015, , .		4
1436	Review of the missing mechanical element: Memdamper. , 2015, , .		4
1437	Memristor-Based Chaotic Circuit for Text/Image Encryption and Decryption. , 2015, , .		12
1438	Hardware acceleration for neuromorphic computing: An evolving view. , 2015, , .		0

#	Article	IF	CITATIONS
1440	On Finding a Defect-free Component in Nanoscale Crossbar Circuits. Procedia Computer Science, 2015, 70, 421-427.	1.2	15
1441	7-Transistor 2-memristor based non-volatile static random access memory cell design. , 2015, , .		3
1442	Insights for utilizing the memristor as a multi-bit based memory. , 2015, , .		0
1443	A novel window function approach for voltage controlled memristor. , 2015, , .		0
1444	On the action parameter and one-period loops of oscillatory memristive circuits. Nonlinear Dynamics, 2015, 82, 619-628.	2.7	11
1445	Piezotronic transistors in nonlinear circuit: Model and simulation. Science China Technological Sciences, 2015, 58, 1348-1354.	2.0	3
1446	Self-consistent physical modeling of SiOx-based RRAM structures. , 2015, , .		5
1447	Memristor crossbar based unsupervised training. , 2015, , .		2
1448	Fluidic-Based Ion Memristors and Ionic Latches. Small, 2015, 11, 5206-5213.	5.2	20
1449	A novel memristor emulator based only on an exponential amplifier and CCII+., 2015, , .		14
1450	Exponential flux-controlled memristor model and its floating emulator. Chinese Physics B, 2015, 24, 118401.	0.7	14
1451	Influence of ion irradiation on the resistive switching parameters of SiO _{<i>x</i>} -based thin-film structures. Journal of Physics: Conference Series, 2015, 643, 012094.	0.3	3
1452	Biorealistic Implementation of Synaptic Functions with Oxide Memristors through Internal Ionic Dynamics. Advanced Functional Materials, 2015, 25, 4290-4299.	7.8	360
1453	Memristor-based random access memory: The delayed switching effect could revolutionize memory design. , $2015, , .$		0
1454	Composite behaviors of dual meminductor circuits. Chinese Physics B, 2015, 24, 110701.	0.7	6
1455	Memristive Physically Evolving Networks Enabling the Emulation of Heterosynaptic Plasticity. Advanced Materials, 2015, 27, 7720-7727.	11.1	139
1456	Implementation of adaptive coupling through memristor. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 206-210.	0.8	6
1457	Parametric analysis of memristive switching mechanism. , 2015, , .		0

#	Article	IF	CITATIONS
1458	Switching mechanism for TiO 2 memristor and quantitative analysis of exponential model parameters. Chinese Physics B, 2015 , 24 , 088401 .	0.7	8
1459	Low power application for nano scaled Memristor based 2â°¶1 multiplexer., 2015,,.		5
1460	Comments on Pinched Hysteresis Loops of Memristive Elements. Radioengineering, 2015, 24, 962-967.	0.3	7
1461	A Memristor as Multi-Bit Memory: Feasibility Analysis. Radioengineering, 2015, 24, 425-430.	0.3	4
1462	Modeling of Memristive and Memcapacitive Behaviors in Metal-Oxide Junctions. Scientific World Journal, The, 2015, 2015, 1-16.	0.8	20
1463	Everything You Wish to Know About Memristors But Are Afraid to Ask. Radioengineering, 2015, 24, 319-368.	0.3	341
1464	Bioelectronics brain using memristive polymer statistical systems. , 0, , 256-265.		3
1465	A Memristor-Based Complex Lorenz System and Its Modified Projective Synchronization. Entropy, 2015, 17, 7628-7644.	1.1	26
1466	Reliable Modeling of Ideal Generic Memristors via State-Space Transformation. Radioengineering, 2015, 24, 393-407.	0.3	39
1467	TWO FINITE-DIFFERENCE TIME-DOMAIN METHODS INCORPORATED WITH MEMRISTOR. Progress in Electromagnetics Research M, 2015, 42, 153-158.	0.5	3
1468	Modeling the AgInSbTe Memristor. Radioengineering, 2015, 24, 808-813.	0.3	2
1469	Review on Physically Flexible Nonvolatile Memory for Internet of Everything Electronics. Electronics (Switzerland), 2015, 4, 424-479.	1.8	118
1470	Plasticity in memristive devices for spiking neural networks. Frontiers in Neuroscience, 2015, 9, 51.	1.4	188
1471	Implementation of a spike-based perceptron learning rule using TiO2â^'x memristors. Frontiers in Neuroscience, 2015, 9, 357.	1.4	35
1472	A memristive spiking neuron with firing rate coding. Frontiers in Neuroscience, 2015, 9, 376.	1.4	45
1473	Generalized reconfigurable memristive dynamical system (MDS) for neuromorphic applications. Frontiers in Neuroscience, 2015, 9, 409.	1.4	3
1474	Colpitts Chaotic Oscillator Coupling with a Generalized Memristor. Mathematical Problems in Engineering, 2015, 2015, 1-9.	0.6	9
1475	Power Dissipation of Memristor-Based Relaxation Oscillators. Radioengineering, 2015, 24, 968-973.	0.3	4

#	Article	IF	CITATIONS
1476	Distributed Bayesian Computation and Self-Organized Learning in Sheets of Spiking Neurons with Local Lateral Inhibition. PLoS ONE, 2015, 10, e0134356.	1.1	9
1477	Optimal Design of FPGA Switch Matrix with Ion Mobility Based Nonvolatile ReRAM. Discrete Dynamics in Nature and Society, 2015, 2015, 1-6.	0.5	0
1478	Impulsive Control of Memristive Chaotic Systems with Impulsive Time Window. Mathematical Problems in Engineering, 2015, 2015, 1-7.	0.6	5
1479	A Chaotic Oscillator Based on HP Memristor Model. Mathematical Problems in Engineering, 2015, 2015, 1-12.	0.6	18
1480	Sliding Mode Control and Modified Generalized Projective Synchronization of a New Fractional-Order Chaotic System. Mathematical Problems in Engineering, 2015, 2015, 1-9.	0.6	6
1481	Solution of TiO\$_{2}\$ memristor-capacitor series circuit excited by a constant voltage source and its application to calculate operation frequency of a programmable TiO\$_{2}\$ memristor-capacitor relaxation oscillator. Turkish Journal of Electrical Engineering and Computer Sciences, 2015, 23, 1219-1229.	0.9	13
1482	Semiempirical Modeling of Reset Transitions in Unipolar Resistive-Switching based Memristors. Radioengineering, 2015, 24, 420-424.	0.3	37
1483	Analysis of Memristor Behavior in Presence of Harmonics. , 2015, , .		0
1484	The Art of Finding Accurate Memristor Model Solutions. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2015, 5, 133-142.	2.7	65
1485	Enabling an Integrated Rate-temporal Learning Scheme on Memristor. Scientific Reports, 2014, 4, 4755.	1.6	60
1486	Resistive switching in metallic Ag ₂ S memristors due to a local overheating induced phase transition. Nanoscale, 2015, 7, 11248-11254.	2.8	19
1487	Memristive operation mode of a site-controlled quantum dot floating gate transistor. Applied Physics Letters, 2015, 106, .	1.5	16
1488	Dynamic Behavior of Coupled Memristor Circuits. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 1607-1616.	3.5	49
1489	A 16Hz–160kHz memristor emulator circuit. AEU - International Journal of Electronics and Communications, 2015, 69, 1208-1219.	1.7	97
1490	Investigating conduction mechanism and frequency dependency of nanostructured memristor device. Materials Science in Semiconductor Processing, 2015, 38, 228-233.	1.9	41
1491	A Theoretical Approach to Memristor Devices. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2015, 5, 123-132.	2.7	92
1492	Finite-time synchronization for memristor-based neural networks with time-varying delays. Neural Networks, 2015, 69, 20-28.	3.3	182
1493	Evidence for undamped waves on ohmic materials. Journal of Electromagnetic Waves and Applications, 2015, 29, 1117-1139.	1.0	1

#	Article	IF	Citations
1494	Non-fragile synchronization of memristive BAM networks with random feedback gain fluctuations. Communications in Nonlinear Science and Numerical Simulation, 2015, 29, 427-440.	1.7	79
1495	Design and Analysis of Memristor Based Non-volatile Memories. Springer Proceedings in Physics, 2015, , 107-110.	0.1	0
1496	Binary Synapse Circuitry for High Efficiency Learning Algorithm Using Generalized Boundary Condition Memristor Models. Smart Innovation, Systems and Technologies, 2015, , 369-374.	0.5	2
1499	Second Generation Miscellaneous Linear/Nonlinear Applications of Various Types of Current Conveyors., 2015,, 501-530.		1
1500	Computational Intelligence, Medicine and Biology. Studies in Computational Intelligence, 2015, , .	0.7	0
1501	Resistive switching and impedance spectroscopy in SiO -based metal-oxide-metal trilayers down to helium temperatures. Vacuum, 2015, 122, 293-299.	1.6	5
1502	Synchronization of Memristor-Based Competitive Neural Networks with Different Time Scales. Applied Mechanics and Materials, 0, 740, 238-242.	0.2	7
1503	Resistive Switching in Oxides. Springer Series in Surface Sciences, 2015, , 401-428.	0.3	16
1504	A Novel Memristor-Based Hardware Security Primitive. Transactions on Embedded Computing Systems, 2015, 14, 1-20.	2.1	23
1505	A Novel Design for a Memristor-Based <sc>or</sc> Gate. IEEE Transactions on Circuits and Systems II: Express Briefs, 2015, 62, 781-785.	2.2	26
1506	VTEAM: A General Model for Voltage-Controlled Memristors. IEEE Transactions on Circuits and Systems II: Express Briefs, 2015, 62, 786-790.	2.2	525
1507	Memristive Hebbian Plasticity Model: Device Requirements for the Emulation of Hebbian Plasticity Based on Memristive Devices. IEEE Transactions on Biomedical Circuits and Systems, 2015, 9, 197-206.	2.7	46
1508	Massively Parallel Analog Computing: Ariadne's Thread Was Made of Memristors. IEEE Transactions on Emerging Topics in Computing, 2015, , 1-1.	3.2	13
1509	Synchronization of Memristor-Based Coupling Recurrent Neural Networks With Time-Varying Delays and Impulses. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 3308-3313.	7.2	116
1510	Evolving unipolar memristor spiking neural networks. Connection Science, 2015, 27, 397-416.	1.8	8
1511	Insights to memristive memory cell from a reliability perspective. , 2015, , .		2
1512	Nanopore ionic memristive effects., 2015,,.		1
1513	SOP based logic synthesis for memristive IMPLY stateful logic. , 2015, , .		9

#	ARTICLE	IF	CITATIONS
1514	Generalized rule of homothety of ideal memristors and their siblings. , 2015, , .		2
1515	Modular emulators of memristors and other higher-order elements from Chuaâ \in ^M s periodical table. , 2015, , .		1
1516	Quasi-Ideal Memory System. IEEE Transactions on Cybernetics, 2015, 45, 1353-1362.	6.2	37
1517	Memory array with complementary resistive switch with memristive characteristics., 2015,,.		2
1518	Design and fabrication of tunneling magnetic flux controlled memristor emulator., 2015,,.		0
1519	Layer-by-layer technique for the fabrication of organic memristors and neuromorphic systems. , 2015, , .		1
1520	Exploring ReRAM-based memristors in the charge-flux domain, a modeling approach. , 2015, , .		12
1521	Design of PN sequence generator based on memristor oscillator. , 2015, , .		1
1522	Fuzzy processing design to finite-time stabilize of memristor-based chaotic systems. , 2015, , .		0
1523	Voltage controlled equivalent circuit of a nanowire memristor. Journal of the Korean Physical Society, 2015, 67, 1930-1936.	0.3	1
1524	Identification of chaotic memristor systems based on piecewise adaptive Legendre filters. Chaos, Solitons and Fractals, 2015, 81, 315-319.	2.5	18
1525	Multiferroic materials and magnetoelectric physics: symmetry, entanglement, excitation, and topology. Advances in Physics, 2015, 64, 519-626.	35.9	661
1526	Determining optimal switching speed for memristors in neuromorphic system. Electronics Letters, 2015, 51, 1637-1639.	0.5	19
1527	The energy scaling advantages of RRAM crossbars. , 2015, , .		8
1528	Development of Ag/WO3/ITO thin film memristor using spray pyrolysis method. Electronic Materials Letters, 2015, 11, 944-948.	1.0	39
1529	Mapping weight matrix of a neural network's layer onto memristor crossbar. Optical Memory and Neural Networks (Information Optics), 2015, 24, 109-115.	0.4	16
1530	Adaptive anti-synchronization and mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0011.gif" overflow="scroll"> <mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mrow><mml:mo>â^ž for memristive new 2015, 160, 706, 740</mml:mo></mml:mrow></mml:mrow></mml:msub>	.ml 315 0> <th>nr84mrow><!--</th--></th>	nr 84 mrow> </th
1531	Neurocomputing, 2015, 168, 726-740. Dynamic analysis and passive control of the memristor-based Chua's circuit., 2015, , .		О

#	Article	IF	CITATIONS
1532	Memristive switching in planar devices based on vanadium dioxide thin films using near IR laser pulses. , $2015, , .$		0
1533	Analog memristor based neuromorphic crossbar circuit for image recognition. , 2015, , .		7
1534	Collapse of Synchronization in a Memristive Network. Communications in Theoretical Physics, 2015, 64, 659-664.	1.1	9
1535	Global anti-synchronization of memristor-based recurrent neural networks with time-varying delays and impulsive effects., 2015,,.		2
1536	Dissipativity results for memristor-based recurrent neural networks with mixed delays., 2015,,.		1
1537	Transfer characteristics and bandwidth limitation in a linear-drift memristor model., 2015,,.		2
1538	Characterization of ROFF/RON ratio of fluidic based memristor sensor for pH detection., 2015,,.		1
1539	Series memristors: A hardened memory cell design against read faults. , 2015, , .		0
1540	Memristor-based neural network PID controller for buck converter. , 2015, , .		5
1541	Memristive crossbar design and test in non-adaptive proactive reconfiguring scheme. , 2015, , .		0
1542	Analysing emerging memory technologies for big data and signal processing applications., 2015,,.		4
1543	Class of memristors from cascade of static nonlinear two ports with dynamic one-ports., 2015,,.		0
1544	Electromechanical Emulator of Memristive Systems and Devices. IEEE Transactions on Electron Devices, 2015, 62, 3678-3684.	1.6	10
1545	A high frequency memristor emulator circuit. , 2015, , .		8
1546	Ohmic Weave: Memristor-Based Threshold Gate Networks. Computer, 2015, 48, 65-71.	1.2	5
1547	New metastable phases in a trititanium pentoxide compound. Materials Research Express, 2015, 2, 126101.	0.8	4
1549	Memristor model based on fuzzy window function. , 2015, , .		4
1550	A threshold adaptive memristor model analysis with application in image storage. , 2015, , .		1

#	Article	IF	CITATIONS
1551	Behavioral model for simplified identification of memristor parameters., 2015,,.		0
1552	Memristor-based pixel for event-detection vision sensor. , 2015, , .		4
1553	Polymer coated ZnO nanowires for memristive devices. , 2015, , .		6
1554	Synchronization properties of a bio-inspired neural network. , 2015, , .		1
1555	Classification of mem-devices. , 2015, , .		3
1556	ROFF/RON ratio of nano-well fluidic memristor sensor towards hydroxide based liquid detection. , 2015, , .		4
1557	Enhanced SPICE memristor model with dynamic ground. , 2015, , .		14
1558	An ultra low-voltage ultra low-power memristor. , 2015, , .		1
1559	Fast boolean logic mapped on memristor crossbar. , 2015, , .		64
1560	New memristor emulator circuit using OTAs and CCIIs. , 2015, , .		17
1561	A non-ideal memristor device. , 2015, , .		4
1562	SPICE model for unipolar RRAM based on a flux-controlled memristor. , 2015, , .		9
1563	Design of digital functional blocks using hybrid memristor structures. , 2015, , .		8
1564	An overview on memristor crossabr based neuromorphic circuit and architecture. , 2015, , .		9
1565	"Modeling memristive biosensors"., 2015,,.		0
1566	The research of memristor-based neural network components operation accuracy in control and communication systems. , 2015, , .		18
1567	Annealing time dependence of zinc oxide thin films memristive behavior. , 2015, , .		0
1568	Adaptive generalized hybrid function projective dislocated synchronization of new four-dimensional uncertain chaotic systems. Applied Mathematics and Computation, 2015, 252, 304-314.	1.4	11

#	Article	IF	CITATIONS
1569	Equivalent circuit modeling of the bistable conduction characteristics in electroformed thin dielectric films. Microelectronics Reliability, 2015, 55, 1-14.	0.9	21
1570	Convergence and attractivity of memristor-based cellular neural networks with time delays. Neural Networks, 2015, 63, 223-233.	3.3	31
1571	Memristive sorting networks. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 233-237.	0.8	1
1572	The First Man-Made Memristor: Circa 1801 [Scanning Our Past]. Proceedings of the IEEE, 2015, 103, 131-136.	16.4	11
1573	Robust Synchronization of Multiple Memristive Neural Networks With Uncertain Parameters via Nonlinear Coupling. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2015, 45, 1077-1086.	5.9	189
1574	Understanding memristors and memcapacitors in engineering mechanics applications. Nonlinear Dynamics, 2015, 80, 457-489.	2.7	33
1575	Memristor Models for Machine Learning. Neural Computation, 2015, 27, 725-747.	1.3	39
1576	Low voltage two-state-variable memristor model of vacancy-drift resistive switches. Applied Physics A: Materials Science and Processing, 2015, 119, 1-9.	1.1	22
1577	Boundary Dynamics of Memcapacitor in Voltage-Excited Circuits and Relaxation Oscillators. Circuits, Systems, and Signal Processing, 2015, 34, 2765-2783.	1.2	7
1578	Magnetic Circuits Within Electric Circuits: Critical Review of Existing Methods and New Mutator Implementations. IEEE Transactions on Power Delivery, 2015, 30, 2427-2434.	2.9	21
1579	Second order memâ€eircuits. International Journal of Circuit Theory and Applications, 2015, 43, 1719-1742.	1.3	8
1580	Can bio-inspired information processing steps be realized as synthetic biochemical processes?. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 219-228.	0.8	11
1582	FPAA/Memristor Hybrid Computing Infrastructure. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 906-915.	3.5	17
1583	Non-exponential resistive switching in Ag ₂ S memristors: a key to nanometer-scale non-volatile memory devices. Nanoscale, 2015, 7, 4394-4399.	2.8	32
1584	<mml:math altimg="si17.gif" display="inline" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>p</mml:mi></mml:math> th moment exponential stochastic synchronization of coupled memristor-based neural networks with mixed delays via delayed impulsive control. Neural Networks, 2015, 65, 80-91.	3.3	142
1585	Nonlinear behavior of memristive devices during tuning process and its impact on STDP learning rule in memristive neural networks. Neural Computing and Applications, 2015, 26, 67-75.	3.2	5
1586	Application-wise nanostructuring of anodic films on titanium: a review. Journal of Experimental Nanoscience, 2015, 10, 1285-1308.	1.3	35
1587	Selfâ€Limited Switching in Ta ₂ O ₅ /TaO <i>_x</i> Memristors Exhibiting Uniform Multilevel Changes in Resistance. Advanced Functional Materials, 2015, 25, 1527-1534.	7.8	111

#	Article	IF	CITATIONS
1588	Modeling the memristor with piecewise linear function. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2015, 28, 96-106.	1.2	9
1589	Multistate Register Based on Resistive RAM. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2015, 23, 1750-1759.	2.1	9
1590	Bipolar resistive switching and charge transport in silicon oxide memristor. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 194, 48-54.	1.7	75
1591	Synchronization control of stochastic memristor-based neural networks with mixed delays. Neurocomputing, 2015, 156, 121-128.	3.5	40
1592	What are Memristor, Memcapacitor, and Meminductor?. IEEE Transactions on Circuits and Systems II: Express Briefs, 2015, 62, 402-406.	2.2	47
1593	Memristive devices based on graphene oxide. Carbon, 2015, 85, 383-396.	5.4	122
1594	Enzyme-based logic systems interfaced with signal-responsive materials and electrodes. Chemical Communications, 2015, 51, 3493-3500.	2.2	60
1595	Towards Analog Memristive Controllers. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 205-214.	3.5	6
1596	Preparation of Ta-O-Based Tunnel Junctions to Obtain Artificial Synapses Based on Memristive Switching. Methods in Molecular Biology, 2015, 1260, 261-267.	0.4	1
1597	A memristive diode for neuromorphic computing. Microelectronic Engineering, 2015, 138, 7-11.	1.1	5
1598	Matrix fractional systems. Communications in Nonlinear Science and Numerical Simulation, 2015, 25, 10-18.	1.7	17
1599	New results on exponential synchronization of memristor-based chaotic neural networks. Neurocomputing, 2015, 156, 60-67.	3.5	64
1600	Memristor-CMOS logic and digital computational components. Microelectronics Journal, 2015, 46, 214-220.	1.1	50
1601	Memristor based N-bits redundant binary adder. Microelectronics Journal, 2015, 46, 207-213.	1.1	24
1602	Persistent Transactional Memory. IEEE Computer Architecture Letters, 2015, 14, 58-61.	1.0	15
1603	Dynamics of self-excited attractors and hidden attractors in generalized memristor-based Chua's circuit. Nonlinear Dynamics, 2015, 81, 215-226.	2.7	159
1604	SPICE modeling of nonlinear memristive behavior. International Journal of Circuit Theory and Applications, 2015, 43, 553-565.	1.3	83
1605	Hybrid CMOS-memristor based FPGA architecture. , 2015, , .		6

#	Article	IF	CITATIONS
1606	Non-ideal memristors for a non-ideal world. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 229-238.	0.8	6
1607	Overview of emerging memristor families from resistive memristor to spintronic memristor. Journal of Materials Science: Materials in Electronics, 2015, 26, 4618-4628.	1.1	70
1608	A memristor emulator as a replacement of a real memristor. Semiconductor Science and Technology, 2015, 30, 015007.	1.0	52
1609	A Novel Nondestructive Read/Write Circuit for Memristor-Based Memory Arrays. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2015, 23, 2648-2656.	2.1	44
1610	Exploring resistive switching in poly(4-vinylphenol)–graphene nano-composite films. Japanese Journal of Applied Physics, 2015, 54, 035103.	0.8	11
1611	Novel design for the odd-symmetric memristor from asymmetric switches. Journal of Materials Chemistry C, 2015, 3, 2768-2772.	2.7	6
1612	Specification of one classical fingerprint of ideal memristor. Microelectronics Journal, 2015, 46, 298-300.	1.1	18
1613	Nanoimprint lithography enables memristor crossbars and hybrid circuits. Applied Physics A: Materials Science and Processing, 2015, 121, 467-479.	1.1	8
1614	Dynamic behaviours and control of fractional-order memristor-based system. Pramana - Journal of Physics, 2015, 85, 91-104.	0.9	13
1615	Slime Mould Memristors. BioNanoScience, 2015, 5, 1-8.	1.5	56
1616	Memristor-Based Multilayer Neural Networks With Online Gradient Descent Training. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2408-2421.	7.2	209
1617	A Generic Model of Memristors With Parasitic Components. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 891-898.	3.5	70
1618	Experimental Demonstration of a Second-Order Memristor and Its Ability to Biorealistically Implement Synaptic Plasticity. Nano Letters, 2015, 15, 2203-2211.	4.5	473
1619	Big Data ohne Energiekollaps. Physik in Unserer Zeit, 2015, 46, 84-89.	0.0	4
1620	Skeleton-supported stochastic networks of organic memristive devices: Adaptations and learning. AIP Advances, 2015, 5, 027129.	0.6	14
1621	Dynamical characteristics of an HP memristor based on an equivalent circuit model in a chaotic oscillator. Chinese Physics B, 2015, 24, 060506.	0.7	22
1622	A Novel True Random Number Generator Design Leveraging Emerging Memristor Technology. , 2015, , .		34
1623	Silicon based nonvolatile magnetic memristor., 2015,,.		0

#	Article	IF	CITATIONS
1624	Imply logic based on TiO ² memristor model for computational circuits. , 2015, , .		2
1625	Function projective synchronization of memristor-based Cohen–Grossberg neural networks with time-varying delays. Cognitive Neurodynamics, 2015, 9, 603-613.	2.3	22
1626	Stability and synchronization of memristor-based fractional-order delayed neural networks. Neural Networks, 2015, 71, 37-44.	3.3	166
1627	Fabrication of graphene-nanoflake/poly(4-vinylphenol) polymer nanocomposite thin film by electrohydrodynamic atomization and its application as flexible resistive switching device. Physica B: Condensed Matter, 2015, 475, 148-155.	1.3	17
1628	Periodic synchronization control of discontinuous delayed networks by using extended Filippov-framework. Neural Networks, 2015, 68, 96-110.	3.3	23
1629	Hardware elementary perceptron based on polyaniline memristive devices. Organic Electronics, 2015, 25, 16-20.	1.4	79
1630	Complex Learning in Bio-plausible Memristive Networks. Scientific Reports, 2015, 5, 10684.	1.6	37
1631	Mapping neural network computations onto memristor crossbar. , 2015, , .		12
1632	Statistical lifetime analysis of memristive crossbar matrix., 2015,,.		9
1633	All-printed and highly stable organic resistive switching device based on graphene quantum dots and polyvinylpyrrolidone composite. Organic Electronics, 2015, 25, 225-231.	1.4	42
1634	Performance stability and functional reliability in bipolar resistive switching of bilayer ceria based resistive random access memory devices. Journal of Applied Physics, 2015, 117, .	1.1	35
1635	Memristive behavior in a junctionless flash memory cell. Applied Physics Letters, 2015, 106, 233506.	1.5	17
1636	The role of water in resistive switching in graphene oxide. Applied Physics Letters, 2015, 106, .	1.5	23
1637	Memristor based digital-to-analog convertor and its programming. , 2015, , .		0
1638	On Passive Permutation Circuits. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2015, 5, 173-182.	2.7	3
1639	The Missing Memristor has Not been Found. Scientific Reports, 2015, 5, 11657.	1.6	84
1640	Adaptive synchronization of fractional-order memristor-based neural networks with time delay. Nonlinear Dynamics, 2015, 82, 1343-1354.	2.7	257
1641	Generic meminductive characteristics of switched reluctance machines. Chinese Physics B, 2015, 24, 068401.	0.7	0

#	Article	IF	CITATIONS
1642	Advances in Neural Networks: Computational and Theoretical Issues. Smart Innovation, Systems and Technologies, $2015, , .$	0.5	5
1643	Neural Net to Neuronal Network Memristor Interconnects. Studies in Computational Intelligence, 2015, , 153-168.	0.7	0
1644	A spintronic memristor bridge synapse circuit and the application in memrisitive cellular automata. Neurocomputing, 2015, 167, 346-351.	3.5	26
1645	Nanoscale memristive radiofrequency switches. Nature Communications, 2015, 6, 7519.	5.8	106
1646	Development of Ag/ZnO/FTO thin film memristor using aqueous chemical route. Materials Science in Semiconductor Processing, 2015, 40, 523-526.	1.9	56
1647	Slime mould processors, logic gates and sensors. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140216.	1.6	20
1648	Emerging Trends in Design and Applications of Memory-Based Computing and Content-Addressable Memories. Proceedings of the IEEE, 2015, 103, 1311-1330.	16.4	141
1649	RENO., 2015,,.		111
1650	Numerical and experimental studies of attractors in memristor-based Chuaâ∈™s oscillator with a line of equilibria. Noise-induced effects. European Physical Journal: Special Topics, 2015, 224, 1553-1561.	1.2	29
1651	On the method of the fabrication of active channels of organic memristive devices: Langmuir-Blodgett vs layer-by-layer. , 2015, , .		0
1652	Robust Simulation of a TaO Memristor Model. Radioengineering, 2015, 24, 384-392.	0.3	29
1653	Application of Memristors in Microwave Passive Circuits. Radioengineering, 2015, 24, 408-419.	0.3	28
1654	Differential Equations of Ideal Memristors. Radioengineering, 2015, 24, 369-377.	0.3	14
1655	Neurodynamics., 2015,, 607-648.		4
1656	Electroforming free high resistance resistive switching of graphene oxide modified polar-PVDF. RSC Advances, 2015, 5, 57406-57413.	1.7	30
1657	Toward the complete relational graph of fundamental circuit elements. Chinese Physics B, 2015, 24, 068402.	0.7	24
1658	Chua's Constitutive Memristor Relations for Physical Phenomena at Metal–Oxide Interfaces. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2015, 5, 143-152.	2.7	7
1659	Memristor PUF& #x2014; A Security Primitive: Theory and Experiment. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2015, 5, 222-229.	2.7	94

#	Article	IF	Citations
1660	Reconfigurable Memristive Device Technologies. Proceedings of the IEEE, 2015, 103, 1004-1033.	16.4	69
1661	An Associative Memory Device Using a Magnetic Tunnel Junction. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	9
1662	A Would-Be Nervous System Made from a Slime Mold. Artificial Life, 2015, 21, 73-91.	1.0	13
1663	Synchronization conditions in simple memristor neural networks. Journal of the Franklin Institute, 2015, 352, 3196-3220.	1.9	30
1664	Ultrahigh Density Memristor Neural Crossbar for On-Chip Supervised Learning. IEEE Nanotechnology Magazine, 2015, 14, 954-962.	1.1	40
1665	Associative memory realized by a reconfigurable memristive Hopfield neural network. Nature Communications, 2015, 6, 7522.	5.8	182
1666	Projective Synchronization for a Class of Fractional-Order Chaotic Systems with Fractional-Order in the (1, 2) Interval. Entropy, 2015, 17, 1123-1134.	1.1	7
1667	A novel memristive electronic synapse-based Hermite chaotic neural network with application in cryptography. Neurocomputing, 2015, 166, 487-495.	3.5	35
1668	A Reconfigurable Digital Neuromorphic Processor with Memristive Synaptic Crossbar for Cognitive Computing. ACM Journal on Emerging Technologies in Computing Systems, 2015, 11, 1-25.	1.8	54
1669	Almost periodic solutions for a memristor-based neural networks with leakage, time-varying and distributed delays. Neural Networks, 2015, 68, 34-45.	3.3	41
1670	Low Variability Resistor–Memristor Circuit Masking the Actual Memristor States. Advanced Electronic Materials, 2015, 1, 1500095.	2.6	34
1671	Atomic switch networks—nanoarchitectonic design of a complex system for natural computing. Nanotechnology, 2015, 26, 204003.	1.3	66
1672	Memristor-Based Adaptive Coupling for Consensus and Synchronization. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 1175-1184.	3.5	56
1673	Stateful-NOR based reconfigurable architecture for logic implementation. Microelectronics Journal, 2015, 46, 551-562.	1.1	7
1674	Memristor Characteristics via an Integration of Drift and Tunnel Barrier Models. IETE Journal of Research, 2015, 61, 440-443.	1.8	1
1675	High mechanical endurance RRAM based on amorphous gadolinium oxide for flexible nonvolatile memory application. Journal Physics D: Applied Physics, 2015, 48, 205104.	1.3	17
1676	Multilayer RTD-memristor-based cellular neural networks for color image processing. Neurocomputing, 2015, 162, 150-162.	3.5	45
1677	Uniqueness and Non-uniqueness of Limit Cycles for Piecewise Linear Differential Systems with Three Zones and No Symmetry. Journal of Nonlinear Science, 2015, 25, 861-887.	1.0	37

#	Article	IF	CITATIONS
1678	A survey on memristor modeling and security applications. , 2015, , .		15
1679	From commercial tyrosine polymers to a tailored polydopamine platform: concepts, issues and challenges en route to melanin-based bioelectronics. Journal of Materials Chemistry C, 2015, 3, 6413-6423.	2.7	35
1680	Experimental and Theoretical Investigation of Minimization of Forming-Induced Variability in Resistive Memory Devices. Materials Research Society Symposia Proceedings, 2015, 1729, 53-58.	0.1	0
1681	Memristor: Models, Types, and Applications. Studies in Systems, Decision and Control, 2015, , 13-49.	0.8	12
1682	Synchronization of Hyperchaotic Memristor-Based Chua's Circuits. Springer Proceedings in Mathematics and Statistics, 2015, , 523-527.	0.1	3
1683	Nano Meets Security: Exploring Nanoelectronic Devices for Security Applications. Proceedings of the IEEE, 2015, 103, 829-849.	16.4	102
1684	A hybrid living/organic electrochemical transistor based on the Physarum polycephalum cell endowed with both sensing and memristive properties. Chemical Science, 2015, 6, 2859-2868.	3.7	61
1685	Combined Hâ [*] ž and passivity state estimation of memristive neural networks with random gain fluctuations. Neurocomputing, 2015, 168, 1111-1120.	3.5	61
1686	Implementation of NOR Logic Based on Material Implication on CMOL FPGA Architecture. , 2015, , .		2
1687	Anatomy of vertical heteroepitaxial interfaces reveals the memristive mechanism in Nb2O5-NaNbO3 thin films. Scientific Reports, 2015, 5, 9229.	1.6	10
1688	Periodicity and synchronization of coupled memristive neural networks with supremums. Neurocomputing, 2015, 159, 137-143.	3.5	40
1689	A Family of Memristive-Transfer Functions of Negative-Feedback Nullor-Based Amplifiers. Circuits, Systems, and Signal Processing, 2015, 34, 3431-3447.	1.2	1
1690	Variation of Selfâ€Seeded Germanium Nanowire Electronic Device Functionality due to Synthesis Condition Determined Surface States. Advanced Materials Interfaces, 2015, 2, 1400469.	1.9	5
1691	Passivity analysis of memristor-based recurrent neural networks with mixed time-varying delays. Neurocomputing, 2015, 165, 270-279.	3.5	26
1692	Application of the Memristor in Reconfigurable Electromagnetic Devices. IEEE Antennas and Propagation Magazine, 2015, 57, 239-248.	1.2	33
1693	Perovskite–fullerene hybrid materials suppress hysteresis in planar diodes. Nature Communications, 2015, 6, 7081.	5.8	948
1694	Multilevel memristor effect in metal–semiconductor core–shell nanoparticles tested by scanning tunneling spectroscopy. Nanoscale, 2015, 7, 9886-9893.	2.8	21
1695	Analysis of Quantized Electrical Characteristics of Microscale TiO ₂ Ink-Jet Printed Memristor. IEEE Transactions on Electron Devices, 2015, 62, 1898-1904.	1.6	10

#	Article	IF	CITATIONS
1696	Modeling, Detection, and Diagnosis of Faults in Multilevel Memristor Memories. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2015, 34, 822-834.	1.9	61
1697	Hybrid slime mould-based system for unconventional computing. International Journal of General Systems, 2015, 44, 341-353.	1.2	12
1698	Stochastic exponential synchronization control of memristive neural networks with multiple time-varying delays. Neurocomputing, 2015, 162, 16-25.	3.5	54
1699	Memristor goes two-dimensional. Nature Nanotechnology, 2015, 10, 389-390.	15.6	31
1700	On a study of optically coupled memristive Chua circuitsâ€"rhythmogenesis and amplitude death. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 1418-1424.	0.9	4
1701	Synchronization of Fuzzy Modeling Chaotic Time Delay Memristor-Based Chua's Circuits with Application to Secure Communication. International Journal of Fuzzy Systems, 2015, 17, 206-214.	2.3	58
1702	Synchronization for delayed memristive BAM neural networks using impulsive control with random nonlinearities. Applied Mathematics and Computation, 2015, 259, 967-979.	1.4	153
1703	New results on synchronization control of delayed memristive neural networks. Nonlinear Dynamics, 2015, 81, 1167-1178.	2.7	30
1704	Investigation of process parameter variation in the memristor based resistive random access memory (RRAM): Effect of device size variations. Materials Science in Semiconductor Processing, 2015, 35, 174-180.	1.9	39
1705	Resistive switching of reactive sputtered TiO2 based memristor in crossbar geometry. Applied Surface Science, 2015, 350, 10-13.	3.1	20
1706	A four-wing hyper-chaotic attractor generated from a 4-D memristive system with a line equilibrium. Nonlinear Dynamics, 2015, 81, 1275-1288.	2.7	98
1707	A Novel Design for Memristor-Based Logic Switch and Crossbar Circuits. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 1402-1411.	3.5	55
1708	Trigonometric Window Functions for Memristive Device Modeling., 2015,,.		6
1709	Modelling of nanostructured TiO2-based memristors. Journal of Semiconductors, 2015, 36, 034001.	2.0	25
1710	A Memristor-Based Continuous-Time Digital FIR Filter for Biomedical Signal Processing. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 1392-1401.	3.5	42
1711	Gate-tunable memristive phenomena mediated by grain boundaries in single-layer MoS2. Nature Nanotechnology, 2015, 10, 403-406.	15.6	564
1712	Low Power Memristor Based 7T SRAM Using MTCMOS Technique. , 2015, , .		12
1713	Memristive Biosensors for PSA-IgM Detection. BioNanoScience, 2015, 5, 189-195.	1.5	16

#	Article	IF	Citations
1714	Memristor-based comparator with programmable hysteresis., 2015,,.		9
1715	Improved logic synthesis for memristive stateful logic using multi-memristor implication. , 2015, , .		4
1716	Realization of non-linear i-v curve with low power dissipation using linear ion drift memristor model. , $2015, , .$		1
1717	Bifurcation analysis and chaos in simplest fractional-order electrical circuit. , 2015, , .		4
1718	Rapid fabrication of Al2O3 encapsulations for organic electronic devices. Applied Surface Science, 2015, 353, 1186-1194.	3.1	21
1719	Finite-time synchronization of memristor-based neural networks. , 2015, , .		1
1720	Composite Characteristics of Memristor Series and Parallel Circuits. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1530019.	0.7	10
1721	Hybrid crossbar architecture for a memristor based cache. Microelectronics Journal, 2015, 46, 1020-1032.	1.1	26
1722	A multilevel memristor–CMOS memory cell as a ReRAM. Microelectronics Journal, 2015, 46, 1283-1290.	1.1	35
1723	A complete classification of memristor devices. , 2015, , .		1
1724	Memristor-CMOS interfacing circuit SPICE model. , 2015, , .		5
1725	On the Amplitude of External Perturbation and Chaos via Devil's Staircase — Stability of Attractors. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550145.	0.7	3
1726	A New Fourth-Order Memristive Chaotic System and Its Generation. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550151.	0.7	43
1727	New image denoising method using multiple-minimum cuts based on maximum-flow neural network. , 2015, , .		2
1728	& amp; $\#x201C$; Bio-functionalization study of Memristive-Biosensors for early detection of prostate cancer & amp; $\#x201D$;., 2015 ,,.		4
1729	Memristor emulator based on practical current controlled model. , 2015, , .		22
1730	Modelling of nanostructured memristor device characteristics using Artificial Neural Network (ANN). Journal of Computational Science, 2015, 11, 82-90.	1.5	23
1731	Complex behavior in memristor circuits based on static nonlinear two-ports and dynamic bipole. , $2015, , .$		2

#	Article	IF	CITATIONS
1732	A memristor emulator circuit based on operational transconductance amplifiers. , 2015, , .		18
1733	Mixed potential function for a class of memristive circuits. , 2015, , .		0
1734	Memristor-based Center-Of-Gravity (COG) defuzzifier circuit., 2015,,.		1
1735	Organic Memristive Device Based on Polyaniline Film Prepared by Spin Coating. BioNanoScience, 2015, 5, 181-184.	1.5	10
1736	Physics of the rupturing mechanism for HP memristor in flux mode. AIP Conference Proceedings, 2015,	0.3	0
1737	Nanoengineered polymeric capsules for bio-computing. AIP Conference Proceedings, 2015, , .	0.3	2
1738	Polymeric systems for bio-inspired information processing. AIP Conference Proceedings, 2015, , .	0.3	2
1739	Neural coding using telegraphic switching of magnetic tunnel junction. Journal of Applied Physics, 2015, 117, .	1.1	18
1740	Memristors: Memory elements in potato tubers. Plant Signaling and Behavior, 2015, 10, e1071750.	1.2	16
1741	A memristive astable multivibrator based on 555 timer. , 2015, , .		1
1742	Noise properties of ideal memristors., 2015,,.		7
1743	Design and implementation of basic building blocks of FPGA using memristor-transistor hybrid approach. , 2015, , .		9
1744	The applications of memristor devices in next-generation cortical processor designs., 2015,,.		5
1745	LC filters with enhanced memristive damping. , 2015, , .		15
1746	Dynamic memory of a single voltage-gated potassium ion channel: A stochastic nonequilibrium thermodynamic analysis. Journal of Chemical Physics, 2015, 142, 185101.	1.2	6
1747	Memristive behaviour in inkjet printed graphene oxide thin layers. RSC Advances, 2015, 5, 68565-68570.	1.7	49
1748	Titanium oxide vertical resistive randomâ€access memory device. Micro and Nano Letters, 2015, 10, 321-323.	0.6	4
1749	Memristor-based Willshaw network: Capacity and robustness to noise in the presence of defects. Applied Physics Letters, 2015, 106, .	1.5	12

#	Article	IF	CITATIONS
1750	$16\ \textsc{Boolean}$ logics in three steps with two anti-serially connected memristors. Applied Physics Letters, $2015, 106, .$	1.5	56
1751	Multistability of memristive Cohen–Grossberg neural networks with non-monotonic piecewise linear activation functions and time-varying delays. Neural Networks, 2015, 71, 27-36.	3.3	61
1752	Memory identification of fractional order systems: Background and theory. , 2015, , .		6
1753	Performance analysis of a memristive crossbar PUF design. , 2015, , .		33
1754	New passivity criteria for memristive uncertain neural networks with leakage and time-varying delays. ISA Transactions, 2015, 59, 133-148.	3.1	39
1755	Memristor based neuromorphic circuit for ex-situ training of multi-layer neural network algorithms. , 2015, , .		42
1756	Two novel cellular neural networks based on mem-elements. , 2015, , .		1
1757	A floating memristor emulator circuit using operational transconductance amplifiers. , 2015, , .		15
1758	Memristor-based cellular nonlinear networks with belief propagation inspired algorithm. , 2015, , .		0
1759	Uncovering Two Competing Switching Mechanisms for Epitaxial and Ultrathin Strontium Titanate-Based Resistive Switching Bits. ACS Nano, 2015, 9, 10737-10748.	7.3	74
1760	A reference-less multilevel memristor based RRAM module. , 2015, , .		2
1761	Least Action Principle for Mem-Elements. Journal of Circuits, Systems and Computers, 2015, 24, 1550148.	1.0	5
1762	Implementing trigonometric nonlinearity in linear ion-drift memristor model., 2015,,.		0
1763	Realization of a memristor-based second-order active low-pass filter. , 2015, , .		5
1764	Composite behaviors of series and parallel meminductor circuits., 2015,,.		0
1765	Investigating power characteristics of memristor-based logic gates and their applications in a security primitive. , 2015, , .		3
1766	Physical simulation of Si-based resistive random-access memory devices., 2015,,.		4
1767	Ex-situ training of dense memristor crossbar for neuromorphic applications. , 2015, , .		21

#	Article	IF	CITATIONS
1768	Towards Multi-Domain and Multi-Physical Electronic Design. IEEE Circuits and Systems Magazine, 2015, 15, 18-43.	2.6	6
1769	Factored Forms for Memristive Material Implication Stateful Logic. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2015, 5, 267-278.	2.7	15
1770	Experimental Evidence of Chaos from Memristors. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550101.	0.7	22
1771	Neuron Model with Simplified Memristive Ionic Channels. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1530017.	0.7	16
1772	Organic memristive device as key element for neuromorphic networks. AIP Conference Proceedings, 2015, , .	0.3	0
1773	Linear programming of voltage-controlled memristors with an anti-serial memristor circuit., 2015,,.		1
1774	Analogue auto-associative memory using a multi-valued memristive memory cell. , 2015, , .		1
1775	Vertical integration of memristors onto foundry CMOS dies using wafer-scale integration. , 2015, , .		11
1776	A fully symbolic homotopy-based memristor model for applications to circuit simulation. Analog Integrated Circuits and Signal Processing, 2015, 85, 65-80.	0.9	14
1777	Polyaniline-based organic memristive device fabricated by layer-by-layer deposition technique. Electronic Materials Letters, 2015, 11, 801-805.	1.0	13
1778	The effect of changing electrode metal on solution-processed flexible titanium dioxide memristors. Materials Chemistry and Physics, 2015, 162, 20-30.	2.0	34
1779	An organic–inorganic hybrid perovskite logic gate for better computing. Journal of Materials Chemistry C, 2015, 3, 10793-10798.	2.7	77
1780	Behavioural modelling of memristive devices targeted to sensor interfaces. , 2015, , .		5
1781	Memristor-based cellular nanoscale networks: Theory, circuits, and applications. , 2015, , .		3
1782	New Twin Crossbar Architecture of Binary Memristors for Low-Power Image Recognition With Discrete Cosine Transform. IEEE Nanotechnology Magazine, 2015, 14, 1104-1111.	1.1	39
1784	Thermal transport in tantalum oxide films for memristive applications. Applied Physics Letters, 2015, 107, .	1.5	25
1785	Computational Study on the Electrical Behavior of Silicon Nanowire Memristive Biosensors. IEEE Sensors Journal, 2015, 15, 6208-6217.	2.4	19
1786	A novel memristor based integrate-and-fire neuron implementation using material implication logic. , 2015, , .		5

#	Article	IF	Citations
1787	Matrix measure strategies for exponential synchronization and anti-synchronization of memristor-based neural networks with time-varying delays. Applied Mathematics and Computation, 2015, 270, 543-556.	1.4	71
1788	2T2M memristor-based memory cell for higher stability RRAM modules. , 2015, , .		8
1789	Resistive switching phenomena: A review of statistical physics approaches. Applied Physics Reviews, 2015, 2, .	5.5	338
1790	Hierarchical composition of memristive networks for real-time computing., 2015,,.		18
1791	Fast march tests for defects in resistive memory. , 2015, , .		9
1792	Analysis and design of an adaptive proactive reconfiguration approach for memristive crossbar memories. , 2015, , .		2
1793	Memristor panic — A survey of different device models in crossbar architectures. , 2015, , .		11
1794	An extendable multi-purpose 3D neuromorphic fabric using nanoscale memristors., 2015,,.		5
1795	A high reliable design of memristor-based multilevel memory., 2015,,.		2
1796	Impact of active areas on electrical characteristics of TiO <inf>2</inf> based solid-state memristors., 2015,,.		5
1797	Memristive states in vanadium-dioxide-based planar devices stimulated by 966 nm infrared laser pulses. Japanese Journal of Applied Physics, 2015, 54, 102601.	0.8	6
1798	Periodic synchronization in delayed memristive neural networks based on Filippov systems. Journal of the Franklin Institute, 2015, 352, 4638-4663.	1.9	23
1799	Exploring error-tolerant low-power multiple-output read scheme for memristor-based memory arrays. , 2015, , .		3
1800	Temperature dependences of ferroelectricity and resistive switching behavior of epitaxial BiFe O ₃ thin films. Chinese Physics B, 2015, 24, 107705.	0.7	10
1801	Fabrication of Flexible Au/ZnO/ITO/PET Memristor Using Dilute Electrodeposition Method. IOP Conference Series: Materials Science and Engineering, 2015, 99, 012002.	0.3	6
1802	Reliable stabilization for memristor-based recurrent neural networks with time-varying delays. Neurocomputing, 2015, 153, 140-147.	3.5	40
1803	Memristor-Based Cellular Nonlinear/Neural Network: Design, Analysis, and Applications. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1202-1213.	7.2	232
1804	Synthesis and nonvolatile memristive switching effect of a donor–acceptor structured oligomer. Journal of Materials Chemistry C, 2015, 3, 664-673.	2.7	29

#	Article	IF	CITATIONS
1805	New one-pot poly(3,4-ethylenedioxythiophene): poly(tetrahydrofuran) memory material for facile fabrication of memory organic electrochemical transistors. APL Materials, 2015, 3, .	2.2	21
1806	Toward Hybrid Nanostructure-Slime Mould Devices. Nano LIFE, 2015, 05, 1450007.	0.6	21
1807	Circuit design and exponential stabilization of memristive neural networks. Neural Networks, 2015, 63, 48-56.	3.3	166
1808	Finite-time synchronization control of a class of memristor-based recurrent neural networks. Neural Networks, 2015, 63, 133-140.	3.3	95
1809	Tuning of resistive memory switching in electropolymerized metallopolymeric films. Chemical Science, 2015, 6, 1308-1315.	3.7	64
1810	Hyperchaos in a 4D memristive circuit with infinitely many stable equilibria. Nonlinear Dynamics, 2015, 79, 2295-2308.	2.7	162
1811	Fractional order junctions. Communications in Nonlinear Science and Numerical Simulation, 2015, 20, 1-8.	1.7	11
1812	Reconfigurable Neuromorphic Computing System with Memristor-Based Synapse Design. Neural Processing Letters, 2015, 41, 159-167.	2.0	21
1813	Fractional order describing functions. Signal Processing, 2015, 107, 389-394.	2.1	18
1814	Novel chaotic behavior in the Muthuswamy-Chua system using Chebyshev Polynomials. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2015, 28, 275-286.	1.2	16
1815	Synchronization of a class of memristive neural networks with time delays via sampled-data control. International Journal of Machine Learning and Cybernetics, 2015, 6, 365-373.	2.3	20
1816	Resistiveâ€less memcapacitorâ€based relaxation oscillator. International Journal of Circuit Theory and Applications, 2015, 43, 959-965.	1.3	21
1817	Weak, modified and function projective synchronization of chaotic memristive neural networks with time delays. Neurocomputing, 2015, 149, 667-676.	3.5	32
1818	Dual-stage impulsive control for synchronization of memristive chaotic neural networks with discrete and continuously distributed delays. Neurocomputing, 2015, 149, 621-628.	3.5	68
1819	Adaptive Synchronization of Memristor-Based Neural Networks with Time-Varying Delays. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2033-2042.	7.2	174
1820	Exponential Stabilization of Memristor-based Chaotic Neural Networks with Time-Varying Delays via Intermittent Control. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1431-1441.	7.2	166
1821	Power Profile Obfuscation Using Nanoscale Memristive Devices to Counter DPA Attacks. IEEE Nanotechnology Magazine, 2015, 14, 26-35.	1.1	14
1822	Passivity and Passification of Memristor-Based Recurrent Neural Networks With Additive Time-Varying Delays. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2043-2057.	7.2	109

#	Article	IF	CITATIONS
1823	Passivity analysis for memristor-based recurrent neural networks with discrete and distributed delays. Neural Networks, 2015, 61, 49-58.	3.3	42
1824	Projective synchronization of fractional-order memristor-based neural networks. Neural Networks, 2015, 63, 1-9.	3.3	275
1825	Fractional-order Memristor Response Under DC and Periodic Signals. Circuits, Systems, and Signal Processing, 2015, 34, 961-970.	1.2	51
1827	Design of controller on synchronization of memristor-based neural networks with time-varying delays. Neurocomputing, 2015, 147, 372-379.	3.5	49
1828	Synchronization of Identical and Nonidentical Memristor-based Chaotic Systems Via Active Backstepping Control Technique. Circuits, Systems, and Signal Processing, 2015, 34, 763-778.	1.2	58
1829	Testing Open Defects in Memristor-Based Memories. IEEE Transactions on Computers, 2015, 64, 247-259.	2.4	87
1830	Passivity Analysis of Memristor-Based Complex-Valued Neural Networks with Time-Varying Delays. Neural Processing Letters, 2015, 42, 517-540.	2.0	55
1831	Adaptive Finite-Time Complete Periodic Synchronization of Memristive Neural Networks with Time Delays. Neural Processing Letters, 2015, 42, 563-583.	2.0	33
1832	Global Exponential Synchronization of Two Memristor-Based Recurrent Neural Networks With Time Delays via Static or Dynamic Coupling. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2015, 45, 235-249.	5.9	163
1833	Passivity and passification of stochastic impulsive memristorâ€based piecewise linear system with mixed delays. International Journal of Robust and Nonlinear Control, 2015, 25, 610-624.	2.1	52
1834	Neuronal Synapse as a Memristor: Modeling Pair- and Triplet-Based STDP Rule. IEEE Transactions on Biomedical Circuits and Systems, 2015, 9, 87-95.	2.7	39
1835	A unified cubic flux-controlled memristor: theoretical analysis, simulation and circuit experiment. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2015, 28, 335-345.	1.2	27
1836	State estimation for memristor-based neural networks with time-varying delays. International Journal of Machine Learning and Cybernetics, 2015, 6, 213-225.	2.3	19
1837	Memory Impedance in TiO2 based Metal-Insulator-Metal Devices. Scientific Reports, 2014, 4, 4522.	1.6	97
1838	Improving Tolerance to Variations in Memristor-Based Applications Using Parallel Memristors. IEEE Transactions on Computers, 2015, 64, 733-746.	2.4	34
1839	New synchronization criteria for memristor-based networks: Adaptive control and feedback control schemes. Neural Networks, 2015, 61, 1-9.	3.3	99
1840	Microwave Memristive-like Nonlinearity in a Dielectric Metamaterial. Scientific Reports, 2014, 4, 5499.	1.6	16
1841	A compact, lowâ€frequency, memristorâ€based oscillator. International Journal of Circuit Theory and Applications, 2015, 43, 1801-1806.	1.3	25

#	Article	IF	CITATIONS
1842	Stability analysis of memristor-based fractional-order neural networks with different memductance functions. Cognitive Neurodynamics, 2015, 9, 145-177.	2.3	54
1843	Global Exponential Synchronization of Multiple Memristive Neural Networks With Time Delay via Nonlinear Coupling. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1300-1311.	7.2	136
1844	Dissipativity analysis of memristor-based complex-valued neural networks with time-varying delays. Information Sciences, 2015, 294, 645-665.	4.0	139
1845	A fractional perspective to the bond graph modelling of world economies. Nonlinear Dynamics, 2015, 80, 1839-1852.	2.7	41
1846	Stability analysis of memristorâ€based complexâ€valued recurrent neural networks with time delays. Complexity, 2016, 21, 14-39.	0.9	33
1848	Simple Memristive SPICE Macro-Models and Reconfigurability in Filter and Antenna. Radioengineering, 2016, 25, 700-706.	0.3	2
1849	Nanoscale Memristor., 2016,,.		0
1850	Further Result for Globally Asymptotic Stability of a Class of Memristor-Based Recurrent Neural Networks with Time-Varying Delays. International Journal of Control and Automation, 2016, 9, 19-30.	0.3	2
1852	Versatile resistive switching in niobium oxide. , 2016, , .		10
1853	Anodic Oxidation as a Means to Produce Memristive Films. Journal of Applied Biomaterials and Functional Materials, 2016, 14, e290-e295.	0.7	9
1856	TG based 2T2M RRAM using Memristor as Memory Element. Indian Journal of Science and Technology, 2016, 9, .	0.5	10
1857	Stabilization of the Fractional-Order Chua Chaotic Circuit via the Caputo Derivative of a Single Input. Discrete Dynamics in Nature and Society, 2016, 2016, 1-5.	0.5	4
1858	A Novel Memcapacitor Model and Its Application for Generating Chaos. Mathematical Problems in Engineering, 2016, 2016, 1-15.	0.6	8
1859	Linearized Programming of Memristors for Artificial Neuro-Sensor Signal Processing. Sensors, 2016, 16, 1320.	2.1	2
1860	Hierarchical Chunking of Sequential Memory on Neuromorphic Architecture with Reduced Synaptic Plasticity. Frontiers in Computational Neuroscience, 2016, 10, 136.	1.2	6
1861	Energy Scaling Advantages of Resistive Memory Crossbar Based Computation and Its Application to Sparse Coding. Frontiers in Neuroscience, 2015, 9, 484.	1.4	77
1862	Design and Analysis of a Neuromemristive Reservoir Computing Architecture for Biosignal Processing. Frontiers in Neuroscience, 2015, 9, 502.	1.4	60
1863	Emulating the Electrical Activity of the Neuron Using a Silicon Oxide RRAM Cell. Frontiers in Neuroscience, 2016, 10, 57.	1.4	106

#	ARTICLE	IF	CITATIONS
1864	Acceleration of Deep Neural Network Training with Resistive Cross-Point Devices: Design Considerations. Frontiers in Neuroscience, 2016, 10, 333.	1.4	344
1865	Trends and Challenges in Neuroengineering: Toward "Intelligent―Neuroprostheses through Brain-"Brain Inspired Systems―Communication. Frontiers in Neuroscience, 2016, 10, 438.	1.4	62
1866	A Memristor-Based Hyperchaotic Complex LÃ $\frac{1}{4}$ System and Its Adaptive Complex Generalized Synchronization. Entropy, 2016, 18, 58.	1.1	31
1867	Trajectories Entropy in Dynamical Graphs with Memory. Frontiers in Robotics and Al, 2016, 3, .	2.0	6
1868	MODELING AND SIMULATION OF TITANIA NANOSTRUCTURES MEMRISTIVE DEVICE. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	0
1869	Memristor based circuit design using charge and attached capacitor. Microelectronics Journal, 2016, 55, 53-63.	1.1	5
1870	The experimental model of a non-ideal memristor., 2016,,.		3
1871	Change of immitance during electroforming and resistive switching in the metal-insulator-metal memristive structures based on SiO x. Technical Physics, 2016, 61, 745-749.	0.2	14
1872	High On/Off Ratio Memristive Switching of Manganite/Cuprate Bilayer by Interfacial Magnetoelectricity. Advanced Materials Interfaces, 2016, 3, 1600086.	1.9	5
1873	Hopfield Network with Interneuronal Connections Based on Memristor Bridges. Lecture Notes in Computer Science, 2016, , 196-203.	1.0	2
1874	Realization of a flux-driven memtranstor at room temperature. Chinese Physics B, 2016, 25, 027703.	0.7	9
1875	Dissipativity analysis of memristive neural networks with timeâ€varying delays and randomly occurring uncertainties. Mathematical Methods in the Applied Sciences, 2016, 39, 2896-2915.	1.2	50
1876	A hybrid memristor-CMOS XOR gate for nonvolatile logic computation. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1050-1054.	0.8	34
1877	Memristor-based chaotic circuit for pseudo-random sequence generators. , 2016, , .		11
1878	Window functions and sigmoidal behaviour of memristive systems. International Journal of Circuit Theory and Applications, 2016, 44, 1685-1696.	1.3	19
1879	Complete stability of feedback CNNs with dynamic memristors and secondâ€order cells. International Journal of Circuit Theory and Applications, 2016, 44, 1959-1981.	1.3	30
1880	Compact Two-State-Variable Second-Order Memristor Model. Small, 2016, 12, 3320-3326.	5.2	24
1881	Organic Biomimicking Memristor for Information Storage and Processing Applications. Advanced Electronic Materials, 2016, 2, 1500298.	2.6	181

#	Article	IF	CITATIONS
1882	An Energyâ€Efficient, BiFeO ₃ â€Coated Capacitive Switch with Integrated Memory and Demodulation Functions. Advanced Electronic Materials, 2016, 2, 1500352.	2.6	19
1883	Dynamical analysis of memristor-based fractional-order neural networks with time delay. Modern Physics Letters B, 2016, 30, 1650271.	1.0	13
1884	Cyclic voltammetry of apple fruits: Memristors in vivo. Bioelectrochemistry, 2016, 112, 9-15.	2.4	22
1885	Fully printed memristors for a self-sustainable recorder of mechanical energy. Flexible and Printed Electronics, 2016, 1, 025002.	1.5	19
1886	Memristor-Based Neuromorphic System with Content Addressable Memory Structure. Lecture Notes in Computer Science, 2016, , 681-690.	1.0	0
1887	Mechanically-induced reverse phase transformation of MoS ₂ from stable 2H to metastable 1T and its memristive behavior. RSC Advances, 2016, 6, 65691-65697.	1.7	63
1888	A new hyperchaotic circuit with two memristors and its application in image encryption. AIP Advances, 2016, 6, .	0.6	33
1889	Large and robust resistive switching in co-sputtered Pt-(NiO-Al2O3)-Pt devices. Journal of Applied Physics, 2016, 119, 084506.	1.1	1
1890	Nanoionic memristor equipped arithmetic logic unit using VTEAM model., 2016,,.		8
1891	A low-computation-complexity, energy-efficient, and high-performance linear program solver using memristor crossbars. , 2016, , .		4
1892	Effect of different memristor window function with variable random resistance on the performance of memristor-based RO-PUF. , 2016 , , .		2
1893	High-level simulation of an FSK modulator based on memconductor. , 2016, , .		4
1894	Process variations-aware resistive associative processor design. , 2016, , .		4
1895	Design techniques of eNVM-enabled neuromorphic computing systems. , 2016, , .		4
1896	Logic design with unipolar memristors. , 2016, , .		8
1897	XbarGen: A memristor based boolean logic synthesis tool. , 2016, , .		12
1898	A novel memristor-based amplitude modulator. , 2016, , .		0
1899	Wave digital emulation of a double barrier memristive device. , 2016, , .		10

#	Article	IF	CITATIONS
1900	Simple generic memristor emulator for voltage-controlled models. , 2016, , .		13
1901	Wave digital emulation of charge-or flux-controlled memristors. , 2016, , .		13
1902	Sensitivity analysis of memristors based on emulation techniques. , 2016, , .		11
1903	Optimized memristor-based ripple carry adders. , 2016, , .		9
1904	Performance analysis of a memristor-based hybrid memory cell with rapid bidirectional storage capability. , 2016, , .		0
1905	A 4-D Hyperchaotic Memristive Dynamical System. MATEC Web of Conferences, 2016, 76, 02047.	0.1	1
1906	Asymmetrical passive intermodulation distortions of memristors with mathematical behavior models. AIP Advances, 2016, 6, 105305.	0.6	3
1907	A nonlinear HP-type complementary resistive switch. AIP Advances, 2016, 6, 055119.	0.6	4
1908	A memristor-based 6T1M hybrid memory cell without state drift during successive read. , 2016, , .		0
1909	The realization of optical switching generated from the combination of Ag/a-Si/p-Si memristor and silicon waveguide. Proceedings of SPIE, $2016, \ldots$	0.8	0
1910	Ambipolar memristor-based oscillator., 2016,,.		6
1911	Memristor based adder circuit design. , 2016, , .		2
1912	Memristor-based pulse width modulator circuit. , 2016, , .		1
1913	Reactance-less RM relaxation oscillator using exponential memristor model. , 2016, , .		7
1914	An accurate memristor model based on a novel definition of memristance., 2016,,.		0
1915	Testing of memristor ratioed logic (MRL) XOR gate. , 2016, , .		9
1916	Security of neuromorphic systems: Challenges and solutions. , 2016, , .		10
1917	A physically based circuit model to account for variability in memristors with resistive switching operation. , 2016, , .		12

#	Article	IF	CITATIONS
1918	An experience with chalcogenide memristors, and implications on memory and computer applications. , 2016, , .		1
1919	Sol-gel synthesis and characterization of undoped and Al-doped ZnO thin films for memristive application. AIP Advances, 2016 , 6 , .	0.6	16
1920	Area efficient implementation of ripple carry adder using memristor crossbar arrays. , 2016, , .		21
1921	Memristors and other higher-order elements in generalized through-across domain., 2016,,.		6
1922	Predicting the oscillation condition of memristor-based oscillators using Hopf bifurcation theory. , 2016, , .		0
1923	Designs of PMC-based non-volatile memory circuits for data restoring. , 2016, , .		2
1924	Synchronization of two memristively coupled van der Pol oscillators. Applied Physics Letters, 2016, 108, .	1.5	44
1925	Parallel boolean matrix multiplication in linear time using rectifying memristors. , 2016, , .		18
1926	Memristors act as synapses in neuromorphic architectures. , 2016, , .		7
1927	Organic memristive device as transistor: Working principle and possible applications. , 2016, , .		0
1928	TiO2 based nanostructured memristor for RRAM and neuromorphic applications: a simulation approach. Nano Convergence, 2016, 3, 16.	6.3	28
1929	From MEMRISTOR to MEMImpedance device. Applied Physics Letters, 2016, 108, 053502.	1.5	16
1930	Nonlinear inerter in the light of Chua's table of higher-order electrical elements. , 2016, , .		4
1931	An amorphous titanium dioxide metal insulator metal selector device for resistive random access memory crossbar arrays with tunable voltage margin. Applied Physics Letters, 2016, 108, .	1.5	19
1932	Nonvolatile transtance change random access memory based on magnetoelectric P(VDF-TrFE)/Metglas heterostructures. Applied Physics Letters, 2016, 109, .	1.5	24
1933	Constructing a Chaotic System with an Infinite Number of Equilibrium Points. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650225.	0.7	31
1934	A fuzzy-based parametric fault diagnosis approach for multiple memristor circuits. , 2016, , .		1
1935	A flux-controlled model of meminductor and its application in chaotic oscillator. Chinese Physics B, 2016, 25, 090502.	0.7	24

#	Article	IF	CITATIONS
1936	Analysis of the Dynamics of Piecewise Linear Memristors. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650217.	0.7	1
1937	Nonvolatile Multilevel Memory and Boolean Logic Gates Based on a Single Ni/[Pb(Mg1/3Nb2/3)O3]0.7[PbTiO3]0.3/Ni Heterostructure. Physical Review Applied, 2016, 6, .	1.5	23
1938	Fully digital write-in scheme for multi-bit memristive storage. , 2016, , .		12
1939	Programmable memristor emulator ASIC for biologically inspired memristive learning., 2016,,.		15
1940	Integrated circuit with memristor emulator array and neuron circuits for neuromorphic pattern recognition. , 2016, , .		3
1941	Memristive behaviour in poly-acrylic acid coated TiO ₂ nanotube arrays. Nanotechnology, 2016, 27, 485208.	1.3	24
1942	Arithmetic circuit design with memristor based high fan-out logic gates. , 2016, , .		0
1943	Design and simulation of a quaternary memory cell based on a physical memristor., 2016,,.		1
1944	Memristor based high fan-out logic gates. , 2016, , .		2
1945	Extreme multistability in a memristor-based multi-scroll hyper-chaotic system. Chaos, 2016, 26, 073107.	1.0	174
1945 1946	Extreme multistability in a memristor-based multi-scroll hyper-chaotic system. Chaos, 2016, 26, 073107. Low-temperature atomic layer deposition of TiO2 thin layers for the processing of memristive devices. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, .	0.9	174
	Low-temperature atomic layer deposition of TiO2 thin layers for the processing of memristive devices.		
1946	Low-temperature atomic layer deposition of TiO2 thin layers for the processing of memristive devices. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, .		29
1946 1947	Low-temperature atomic layer deposition of TiO2 thin layers for the processing of memristive devices. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, . Design a memristor-based hybrid memory cell having faster bidirectional storage operation., 2016, , . Fabrication of sub-10 nm metal nanowire arrays with sub-1 nm critical dimension control.	0.9	29
1946 1947 1948	Low-temperature atomic layer deposition of TiO2 thin layers for the processing of memristive devices. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, . Design a memristor-based hybrid memory cell having faster bidirectional storage operation., 2016, , . Fabrication of sub-10 nm metal nanowire arrays with sub-1 nm critical dimension control. Nanotechnology, 2016, 27, 464004. Adaptive microwave impedance memory effect in a ferromagnetic insulator. Nature Communications,	0.9	29
1946 1947 1948 1949	Low-temperature atomic layer deposition of TiO2 thin layers for the processing of memristive devices. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, . Design a memristor-based hybrid memory cell having faster bidirectional storage operation. , 2016, , . Fabrication of sub-10 nm metal nanowire arrays with sub-1 nm critical dimension control. Nanotechnology, 2016, 27, 464004. Adaptive microwave impedance memory effect in a ferromagnetic insulator. Nature Communications, 2016, 7, 13737.	0.9	29 2 12 6
1946 1947 1948 1949	Low-temperature atomic layer deposition of TiO2 thin layers for the processing of memristive devices. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, . Design a memristor-based hybrid memory cell having faster bidirectional storage operation. , 2016, , . Fabrication of sub-10 nm metal nanowire arrays with sub-1 nm critical dimension control. Nanotechnology, 2016, 27, 464004. Adaptive microwave impedance memory effect in a ferromagnetic insulator. Nature Communications, 2016, 7, 13737. Novel information processing devices: A material odyssey. , 2016, , .	0.9 1.3 5.8	29 2 12 6

#	Article	IF	CITATIONS
1954	Data-Centric Computing Frontiers. , 2016, , .		37
1955	CMOS-memristor inverter circuit design and analysis using Cadence Virtuoso. , 2016, , .		7
1956	A sub-1-volt analog metal oxide memristive-based synaptic device with large conductance change for energy-efficient spike-based computing systems. Applied Physics Letters, 2016, 109, .	1.5	63
1957	Implementation of combinational circuits via material implication using memristors. , 2016, , .		10
1958	Reliable logic design with defective nano-crossbar architecture. , 2016, , .		4
1959	Design methodology for stateful memristive logic gates. , 2016, , .		10
1960	Resistance impact by long connections on electrical behavior of integrated Memristive Biosensors. , 2016, , .		3
1961	Memristor-based chaotic circuit design on image En/decryption. , 2016, , .		3
1962	Mimicking of pulse shape-dependent learning rules with a quantum dot memristor. Journal of Applied Physics, 2016, 120, .	1.1	6
1963	Voltage controlled memristor threshold logic gates. , 2016, , .		10
1964	Memristor-based arbiter Physically Unclonable Function (APUF) with multiple response bits., 2016,,.		1
1965	Implementing memristor in ring oscillators based Random Number Generator. , 2016, , .		6
1966	Functional realization of electronic elements in liquid state: A review: Introducing electronic characteristics in liquid state. , 2016 , , .		1
1967	A multidisciplinary approach to study the functional properties of neuron-like cell models constituting a living bio-hybrid system: SH-SY5Y cells adhering to PANI substrate. AIP Advances, 2016, 6,	0.6	9
1968	Highly Stretchable Non-volatile Nylon Thread Memory. Scientific Reports, 2016, 6, 24406.	1.6	19
1969	Oscillatory neural associative memories with synapses based on memristor bridges. Optical Memory and Neural Networks (Information Optics), 2016, 25, 219-227.	0.4	13
1970	A fully analog memristor-based neural network with online gradient training. , 2016, , .		29
1971	On the origin of resistive switching volatility in Ni/TiO2/Ni stacks. Journal of Applied Physics, 2016, 120, .	1.1	12

#	Article	IF	Citations
1972	An FPGA-based manipulation system for ReRAM characterization. , 2016, , .		0
1973	All-passive memristor-based 8-QAM and BFSK demodulators using linear dopant drift model. , 2016, , .		6
1974	Sub-10 nm Ta Channel Responsible for Superior Performance of a HfO2 Memristor. Scientific Reports, 2016, 6, 28525.	1.6	177
1975	The research of operation accuracy of a memristor-based artificial neural network with an input signal containing noise and pulse interference. , 2016, , .		1
1976	CMOS-Memristor Hybrid Integrated Pixel Sensors. , 2016, , .		3
1977	Novel memristive logic architectures. , 2016, , .		5
1978	Memristor circuits and systems for future computing and bio-inspired information processing. , 2016, , .		11
1979	Multi-scale electrothermal simulation and modelling of resistive random access memory devices. , 2016, , .		4
1980	The role of ion transport phenomena in memristive double barrier devices. Scientific Reports, 2016, 6, 35686.	1.6	35
1981	Determining Operation Tolerances of Memristor-Based Artificial Neural Networks. , 2016, , .		10
1982	Security challenges in smart surveillance systems and the solutions based on emerging nano-devices. , 2016, , .		0
1983	Charging the capacitor via a (Memory) resistor. , 2016, , .		1
1984	The gyrator for transforming nano memristor into meminductor. Circuit World, 2016, 42, 197-200.	0.7	18
1985	Annealing temperature dependency of ZnO thin films memristive behavior. AIP Conference Proceedings, 2016, , .	0.3	0
1986	Generalised mathematical model of memristor. IET Circuits, Devices and Systems, 2016, 10, 244-249.	0.9	17
1987	Enhanced Model of Conductive Filament-Based Memristor via Including Trapezoidal Electron Tunneling Barrier Effect. IEEE Nanotechnology Magazine, 2016, 15, 484-491.	1.1	19
1988	A Chaotic Hyperjerk System Based on Memristive Device. Studies in Computational Intelligence, 2016, , 39-58.	0.7	23
1989	Exponential lag synchronization for memristor-based neural networks with mixed time delays via hybrid switching control. Journal of the Franklin Institute, 2016, 353, 2859-2880.	1.9	53

#	Article	IF	CITATIONS
1990	Generating hyperchaotic multi-wing attractor in a 4D memristive circuit. Nonlinear Dynamics, 2016, 85, 2653-2663.	2.7	108
1991	Methodology and Design of a Massively Parallel Memristive Stateful IMPLY Logic-Based Reconfigurable Architecture. IEEE Nanotechnology Magazine, 2016, 15, 675-686.	1.1	25
1992	Circuit Theory in Circuit Simulation. IEEE Circuits and Systems Magazine, 2016, 16, 6-10.	2.6	6
1993	Leveraging Stochastic Memristor Devices in Neuromorphic Hardware Systems. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2016, 6, 235-246.	2.7	15
1994	Logic Design Within Memristive Memories Using Memristor-Aided loGIC (MAGIC). IEEE Nanotechnology Magazine, 2016, 15, 635-650.	1.1	244
1995	Memristive Behavior of Nb/NbOx/Nb Structures Prepared by Local Anodic Oxidation1. Materials Today: Proceedings, 2016, 3, 803-809.	0.9	1
1996	Design of a memristor-based look-up table (LUT) for low-energy operation of FPGAs. The Integration VLSI Journal, 2016, 55, 1-11.	1.3	12
1997	Study on the bio-functionalization of memristive nanowires for optimum memristive biosensors. Journal of Materials Chemistry B, 2016, 4, 2153-2162.	2.9	19
1998	A novel memristive time–delay chaotic system without equilibrium points. European Physical Journal: Special Topics, 2016, 225, 127-136.	1.2	105
1999	Thermal optimization for memristor-based hybrid neuromorphic computing systems. , 2016, , .		1
2000	Memristor Based Arbiter PUF: Cryptanalysis Threat and Its Mitigation. , 2016, , .		9
2001	History Erase Effect in a Non-Volatile Memristor. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 389-400.	3.5	60
2002	Generators of Aggregation Functions and Fuzzy Connectives. IEEE Transactions on Fuzzy Systems, 2016, 24, 1690-1694.	6.5	9
2003	A low-power hybrid reconfigurable architecture for resistive random-access memories. , 2016, , .		8
2004	Process Variation Aware Design of Multi-Valued Spintronic Memristor-Based Memory Arrays. IEEE Transactions on Semiconductor Manufacturing, 2016, 29, 145-152.	1.4	17
2005	Finite-time control and synchronization for memristor-based chaotic system via impulsive adaptive strategy. Advances in Difference Equations, 2016, 2016, .	3.5	21
2006	Modeling of memristor-based chaotic systems using nonlinear Wiener adaptive filters based on backslash operator. Chaos, Solitons and Fractals, 2016, 87, 12-16.	2.5	15
2007	Memristor based unbalanced ternary logic gates. Analog Integrated Circuits and Signal Processing, 2016, 87, 399-406.	0.9	38

#	Article	IF	CITATIONS
2008	A Novel Design Approach of a Nonlinear Resistor Based on a Memristor Emulator. Studies in Fuzziness and Soft Computing, 2016, , 3-34.	0.6	11
2009	Effects of bounded and unbounded leakage time-varying delays in memristor-based recurrent neural networks with different memductance functions. Neurocomputing, 2016, 202, 67-83.	3.5	19
2010	Unipolar memristive switching in bulk positive temperature coefficient ceramic thermistor. Modern Physics Letters B, 2016, 30, 1650025.	1.0	3
2011	A CAD-oriented simulation methodology for memristive circuits. , 2016, , .		1
2012	Engineering incremental resistive switching in TaO _x based memristors for brain-inspired computing. Nanoscale, 2016, 8, 14015-14022.	2.8	271
2013	Adaptive exponential synchronization of memristive neural networks with mixed time-varying delays. Neurocomputing, 2016, 201, 40-50.	3.5	39
2014	state estimation for discrete-time memristive recurrent neural networks with stochastic time-delays. International Journal of General Systems, 2016, 45, 633-647.	1.2	50
2015	Saddle-Node Bifurcations in Classical and Memristive Circuits. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650064.	0.7	1
2016	Passivity of memristor-based BAM neural networks with different memductance and uncertain delays. Cognitive Neurodynamics, 2016, 10, 339-351.	2.3	40
2017	Global exponential stability for switched memristive neural networks with time-varying delays. Neural Networks, 2016, 80, 34-42.	3.3	36
2018	Lowâ€power and area efficient binary coded decimal adder design using a look up tableâ€based field programmable gate array. IET Circuits, Devices and Systems, 2016, 10, 163-172.	0.9	5
2019	Global synchronization of stochastically disturbed memristive neurodynamics via discontinuous control laws. IEEE/CAA Journal of Automatica Sinica, 2016, 3, 121-131.	8.5	32
2020	A spiking and bursting neuron circuit based on memristor. Neurocomputing, 2016, 203, 86-91.	3.5	135
2021	New results on periodic dynamics of memristor-based recurrent neural networks with time-varying delays. Neurocomputing, 2016, 218, 259-263.	3.5	10
2022	Coexistence and local <mml:math altimg="si5.gif" display="inline" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>ν</mml:mi></mml:math> -stability of multiple equilibrium points for memristive neural networks with nonmonotonic piecewise linear activation functions and unbounded time-varying delays. Neural Networks, 2016, 84, 172-180.	3.3	44
2023	Global synchronization of memristive neural networks subject to random disturbances via distributed pinning control. Neural Networks, 2016, 84, 67-79.	3.3	57
2024	Volterra model of a class of two-memristor circuits. , 2016, , .		0
2025	New results on exponential synchronization of memristor-based neural networks with discontinuous neuron activations. Neural Networks, 2016, 84, 161-171.	3.3	60

#	Article	IF	CITATIONS
2026	Ionic liquid-enhanced soft resistive switching devices. RSC Advances, 2016, 6, 94128-94138.	1.7	31
2027	The 2016 oxide electronic materials and oxide interfaces roadmap. Journal Physics D: Applied Physics, 2016, 49, 433001.	1.3	266
2028	Dual layer ZnO configuration over nanostructured porous silicon substrate for enhanced memristive switching. Superlattices and Microstructures, 2016, 100, 89-96.	1.4	6
2029	Microwave memristive behavior in split-ring resonator metamaterials. Laser Physics, 2016, 26, 076002.	0.6	0
2031	Some electromechanical systems and analogies of mem-systems integer and fractional order. , 2016, , .		7
2032	Oxygen-vacancy driven tunnelling spintronics across MgO. Proceedings of SPIE, 2016, , .	0.8	3
2034	Global $SO(t^{-\alpha})$ O ($t - \hat{t}$) stabilization of fractional-order memristive neural networks with time delays. SpringerPlus, 2016, 5, 1034.	1.2	4
2035	Memristors in Biomembranes. Advances in Biomembranes and Lipid Self-Assembly, 2016, , 91-117.	0.3	3
2036	A polynomial fractional-order charge-controlled memristor model. , 2016, , .		2
2037	Discrete-time memristive recurrent neural networks with time-varying delays: Exponential stability analysis., 2016,,.		2
2038	Survey on memrister models. , 2016, , .		3
2039	Modelling and characterization of dynamic behavior of coupled memristor circuits. , 2016, , .		13
2040	Substrate effect on electrical properties of vanadium oxide thin film for Memristive device applications. , $2016, , .$		4
2041	Performance analysis of CMOS-memristor hybrid ring oscillator Physically Unclonable Function (RO-PUF)., 2016,,.		8
2042	A Coupled Memcapacitor Emulator-Based Relaxation Oscillator. IEEE Transactions on Circuits and Systems II: Express Briefs, 2016, 63, 1101-1105.	2.2	22
2043	Integration of a niobium oxide selector on a tantalum oxide memristor by local oxidation using Joule heating. Proceedings of SPIE, $2016, $, .	0.8	2
2044	Printable ReRAM devices based on the nonâ€stoichiometric junction CuS/Cu ⟨sub⟩ 2â^' ⟨i⟩x⟨ i⟩ ⟨ sub⟩ S. Electronics Letters, 2016, 52, 1871-1873.	0.5	15
2045	Finite-time synchronization criteria for delayed memristor-based neural networks. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
2046	Expression of emotion using a system combined artificial neural network and memristor-based crossbar array. , $2016, , .$		4
2047	FPGA-based training and recalling system for memristor synapses. , 2016, , .		1
2048	Sequential Memristor Crossbar for Neuromorphic Pattern Recognition. IEEE Nanotechnology Magazine, 2016, 15, 922-930.	1.1	16
2049	Emerging Memristor-Based Logic Circuit Design Approaches: A Review. IEEE Circuits and Systems Magazine, 2016, 16, 15-30.	2.6	157
2050	A Memristor Crossbar Based Computing Engine Optimized for High Speed and Accuracy. , 2016, , .		33
2051	Write sneak-path constraints avoiding disturbs in memristor crossbar arrays., 2016,,.		6
2052	Finite-time stability and synchronization for memristor-based fractional-order Cohen-Grossberg neural network. European Physical Journal B, 2016, 89, 1.	0.6	42
2053	A Mini Review of Neuromorphic Architectures and Implementations. IEEE Transactions on Electron Devices, 2016, 63, 3819-3829.	1.6	152
2054	A novel color image encryption algorithm based on genetic recombination and the four-dimensional memristive hyperchaotic system. Chinese Physics B, 2016, 25, 100503.	0.7	64
2055	A Double-Wing Chaotic System Based on Ion Migration Memristor and Its Sliding Mode Control. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650129.	0.7	7
2056	Chaos in a Meminductor-Based Circuit. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650130.	0.7	34
2057	Ultra low-voltage ultra low-power memristor based band-pass filter design and its application to EEG signal processing. Analog Integrated Circuits and Signal Processing, 2016, 89, 719-726.	0.9	17
2058	A nonlinear circuit with two memcapacitors. Nonlinear Dynamics, 2016, 86, 1735-1744.	2.7	40
2059	Class A and Class AB CMOS-Only Nanopower Memristive Dynamics Emulators. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650127.	0.7	1
2060	X-ray spectromicroscopy investigation of soft and hard breakdown in RRAM devices. Nanotechnology, 2016, 27, 345705.	1.3	11
2061	A circuit design for multi-inputs stateful OR gate. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 3081-3085.	0.9	8
2062	Hybrid control of stochastic chaotic system based on memristive Lorenz system with discrete and distributed timeâ€varying delays. IET Control Theory and Applications, 2016, 10, 1513-1523.	1,2	8
2063	Memristor based BPSK and QPSK demodulators with nonlinear dopant drift model. Microelectronics Journal, 2016, 56, 17-24.	1.1	12

#	Article	IF	Citations
2064	An a VLSI driving circuit for memristor-based STDP. , 2016, , .		10
2065	Extended dissipative analysis for memristive neural networks with two additive time-varying delay components. Neurocomputing, 2016, 216, 429-438.	3.5	45
2066	A class of versatile circuits, made up of standard electrical components, are memristors. International Journal of Circuit Theory and Applications, 2016, 44, 127-146.	1.3	44
2067	Variation of a classical fingerprint of ideal memristor. International Journal of Circuit Theory and Applications, 2016, 44, 1202-1207.	1.3	13
2068	<pre><mml:math altimg="si9.gif" display="inline" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="script">H</mml:mi><mml:mrow><mml:mi>a^ž</mml:mi></mml:mrow></mml:msub> estimation for memristive neural networks with time-varying delays: The discrete-time case. Neural Networks, 2016, 84, 47-56.</mml:math></pre>	∙< βna ml:ma	atl 47 state
2069	A New Simple Chaotic Circuit Based on Memristor. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650145.	0.7	70
2070	Electronically tunable memristor emulator circuit. Analog Integrated Circuits and Signal Processing, 2016, 89, 655-663.	0.9	94
2071	Qubit-Based Memcapacitors and Meminductors. Physical Review Applied, 2016, 6, .	1.5	27
2072	Complex nonlinear dynamics in fractional and integer order memristor-based systems. Neurocomputing, 2016, 218, 296-306.	3.5	34
2073	Design of Low Power Memristor Non-Volatile Dram Cell with Footer Switch. , 2016, , .		0
2074	On-printed circuit board emulator with controllability of pinched hysteresis loop for nanoscale \$\$mathrm{TiO}_2\$\$ TiO 2 thin-film memristor device. Journal of Computational Electronics, 2016, 15, 993-1002.	1.3	11
2075	On synchronization for chaotic memristor-based neural networks with time-varying delays. Neurocomputing, 2016, 216, 570-586.	3.5	11
2076	Memristor Circuits: Fluxâ€"Charge Analysis Method. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 1997-2009.	3.5	106
2077	Status and Prospects of ZnO-Based Resistive Switching Memory Devices. Nanoscale Research Letters, 2016, 11, 368.	3.1	188
2078	Memristor cellular automata for image pattern recognition and clinical applications. , 2016, , .		16
2079	Effect of the memristor threshold current on memristor-based Min-Max circuits. , 2016, , .		2
2080	Design and evaluation of a memristorâ€based lookâ€up table for nonâ€volatile field programmable gate arrays. IET Circuits, Devices and Systems, 2016, 10, 292-300.	0.9	31
2081	Spectrophotometric characterization of organic memristive devices. Organic Electronics, 2016, 38, 79-83.	1.4	21

#	Article	IF	CITATIONS
2082	Turing Patterns in Memristive Cellular Nonlinear Networks. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 1222-1230.	3.5	30
2083	Memristors for Energyâ€Efficient New Computing Paradigms. Advanced Electronic Materials, 2016, 2, 1600090.	2.6	272
2084	Synchronization of memristorâ€based delayed BAM neural networks with fractionalâ€order derivatives. Complexity, 2016, 21, 412-426.	0.9	31
2085	A two-transistor non-ideal memristor emulator. , 2016, , .		12
2086	A Designer's Rationale for Nanoelectronic Hardware Security Primitives. , 2016, , .		4
2087	Realization of Functional Complete Stateful Boolean Logic in Memristive Crossbar. ACS Applied Materials & Samp; Interfaces, 2016, 8, 34559-34567.	4.0	56
2088	Nanoimprint lithography for nanodevice fabrication. Nano Convergence, 2016, 3, 21.	6.3	58
2089	Global Dynamics of Memristor Oscillator. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650198.	0.7	7
2090	Slow-Scale Instability in Voltage-Mode Controlled H-Bridge Inverter with Memristive Load. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650200.	0.7	9
2091	Resistive switching in Au/SiO x /TiN/Ti memristive structures with varied geometric parameters and stoichiometry of dielectric film. Technical Physics Letters, 2016, 42, 505-508.	0.2	4
2092	Variable cubic-polynomial memristor based canonical Chua's chaotic circuit. IEICE Electronics Express, 2016, 13, 20150987-20150987.	0.3	4
2093	Impact of electroforming polarity on <i>TiO</i> ₂ based memristor. IEICE Electronics Express, 2016, 13, 20160613-20160613.	0.3	1
2094	éžåŒæœŸå^†å²ãƒ—ãfã,»ãffã,µ —第4ã®ãf‹ãf¥ãf¼ãfãfãf¼ãf‰ã,¦ã,§ã,¢å®Ÿè£…手法—. leice Inform	n atio n and	Systems So
2095	Neuromorphic microelectronics from devices to hardware systems and applications. Nonlinear Theory and Its Applications IEICE, 2016, 7, 468-498.	0.4	10
2096	Potential method of nonlinear resistive circuits to solve max-flow/min-cut problems. Nonlinear Theory and Its Applications IEICE, 2016, 7, 509-522.	0.4	1
2097	Advances in 2D Materials for Electronic Devices. Semiconductors and Semimetals, 2016, 95, 221-277.	0.4	8
2098	Implementation of Memristive Neural Network With Full-Function Pavlov Associative Memory. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 1454-1463.	3.5	80
2099	A memristive chaotic system with heart-shaped attractors and its implementation. Chaos, Solitons and Fractals, 2016, 92, 20-29.	2.5	36

#	Article	IF	CITATIONS
2100	Memristor-based XOR gate for full adder. , 2016, , .		11
2101	An Improved Approach for the Synthesis of Boolean Functions Using Memristor Based IMPLY and INVERSE-IMPLY Gates. , 2016, , .		17
2102	Current-Based Testing, Modeling and Monitoring for Operational Deterioration of a Memristor-Based LUT. Journal of Electronic Testing: Theory and Applications (JETTA), 2016, 32, 587-599.	0.9	2
2103	Application of memristors in active filters. , 2016, , .		8
2105	State and parameter estimations of chaotic memristive systems based on extended Kalman filter. , 2016, , .		1
2106	The simplest memristor in the world. , 2016, , .		7
2107	Spintronics and Security: Prospects, Vulnerabilities, Attack Models, and Preventions. Proceedings of the IEEE, 2016, 104, 1864-1893.	16.4	52
2108	Emulating the physical properties of HP memristor using an arduino and a digital potentiometer. , 2016, , .		6
2109	Physics model of memristor devices with varying active materials., 2016,,.		1
2110	Stability analysis of multimode oscillations in three coupled memristor-based circuits. AEU - International Journal of Electronics and Communications, 2016, 70, 1569-1579.	1.7	12
2111	Comparison between Pt/TiO ₂ /Pt and Pt/TaO _{<i>X</i>} /TaO _{<i>Y</i>} /Pt based bipolar resistive switching devices. Journal of Semiconductors, 2016, 37, 064001.	2.0	14
2112	Synchronization for fractional-order time-delayed memristor-based neural networks with parameter uncertainty. Journal of the Franklin Institute, 2016, 353, 3657-3684.	1.9	81
2113	Surface trap mediated electronic transport in biofunctionalized silicon nanowires. Nanotechnology, 2016, 27, 345503.	1.3	16
2114	Measurement Units and Physical Dimensions of Fractance-Part I: Position of Purely Ideal Fractor in Chuaâ∈™s Axiomatic Circuit Element System and Fractional-Order Reactance of Fractor in Its Natural Implementation. IEEE Access, 2016, 4, 3379-3397.	2.6	135
2117	Electro-Photo-Sensitive Memristor for Neuromorphic and Arithmetic Computing. Physical Review Applied, 2016, 5, .	1.5	37
2118	Synchronization and periodicity of coupled inertial memristive neural networks with supremums. Neurocomputing, 2016, 214, 739-749.	3.5	64
2119	Sol-gel derived oriented multilayer ZnO thin films with memristive response. Thin Solid Films, 2016, 615, 427-436.	0.8	11
2120	A novel circuit design for complementary resistive switch-based stateful logic operations. Chinese Physics B, 2016, 25, 058502.	0.7	2

#	Article	IF	CITATIONS
2121	Nonvolatile Bipolar Resistive Switching Behavior in the Perovskite-like (CH3NH3)2FeCl4. ACS Applied Materials & Samp; Interfaces, 2016, 8, 18985-18990.	4.0	17
2122	Unsupervised learning in probabilistic neural networks with multi-state metal-oxide memristive synapses. Nature Communications, 2016, 7, 12611.	5.8	266
2123	Neural processor design enabled by memristor technology. , 2016, , .		4
2124	Asymmetry-induced resistive switching in Ag-Ag2S-Ag memristors enabling a simplified atomic-scale memory design. Scientific Reports, 2016, 6, 30775.	1.6	30
2125	Quantized conductance coincides with state instability and excess noise in tantalum oxide memristors. Nature Communications, 2016, 7, 11142.	5.8	95
2126	Neuromemristive Systems: Boosting Efficiency through Brain-Inspired Computing. Computer, 2016, 49, 56-64.	1.2	23
2127	Towards memristor based accelerator for sparse matrix vector multiplication., 2016,,.		15
2128	Optically controlled electroresistance and electrically controlled photovoltage in ferroelectric tunnel junctions. Nature Communications, 2016, 7, 10808.	5.8	158
2129	High throughput neural network based embedded streaming multicore processors. , 2016, , .		10
2130	Topological chaos in the parallel inductor-capacitor-memristor circuit. , 2016, , .		2
2131	Modelling the generic TiO <inf>2</inf> memristor with the parasitic components. , 2016, , .		1
2132	On lossy memristive behavior of metal conductors. , 2016, , .		0
2133	High-level simulation of a PID controller based on memristor. , 2016, , .		5
2134	Atomistic simulation of nanodevices. , 2016, , .		5
2135	Memristive Biosensors Integration With Microfluidic Platform. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 2120-2127.	3.5	11
2136	Read disturbance and temperature variation aware spintronic memristor model., 2016,,.		7
2137	A memristor based ultrasonic transducer: The memosducer. , 2016, , .		9
2138	Design of memristor-based up-down counter using material implication logic. , 2016, , .		14

#	Article	IF	CITATIONS
2139	Finite-time stability analysis of fractional order delayed memristive neural networks. , 2016, , .		2
2140	Low frequency oscillation in voltage controlled H-bridge inverter with memristive load: Simulations and experiments. , 2016, , .		O
2141	Resistive memory device requirements for a neural algorithm accelerator., 2016,,.		139
2142	High Density Crossbar Arrays with Sub- 15 nm Single Cells via Liftoff Process Only. Scientific Reports, 2016, 6, 32614.	1.6	32
2143	A Memristive Pixel Architecture for Real-Time Tracking. IEEE Sensors Journal, 2016, 16, 7911-7918.	2.4	8
2144	Quantum consciousness in warm, wet and noisy brain. Modern Physics Letters B, 2016, 30, 1650329.	1.0	12
2145	Nano-fabricated memristive biosensors for biomedical applications with liquid and dried samples., 2016, 2016, 295-298.		1
2146	Real-time encoding and compression of neuronal spikes by metal-oxide memristors. Nature Communications, 2016, 7, 12805.	5.8	141
2147	An Advection-Diffusion Model for the Vacancy Migration Memristor. IEEE Access, 2016, 4, 7747-7757.	2.6	8
2148	Impulsive stabilization of memristor-based chaotic Lorenz circuit. , 2016, , .		0
2149	New Trends in Magnetic Memories. , 2016, , 457-509.		1
2150	Quantum memristors. Scientific Reports, 2016, 6, 29507.	1.6	53
2151	Memristor crossbar deep network implementation based on a Convolutional neural network., 2016,,.		74
2152	A design of HTM spatial pooler for face recognition using memristor-CMOS hybrid circuits. , 2016, , .		17
2153	Generalized regression neural network based efficient memristor modeling. , 2016, , .		1
2154	Effect of annealing time on memristive behavior of sol-gel spincoated ZnO-based memristive device. AIP Conference Proceedings, 2016, , .	0.3	4
2155	BDD based synthesis technique for design of high-speed memristor based circuits. , 2016, , .		5
2156	Analytic models for crossbar write operation. , 2016, , .		2

#	Article	IF	Citations
2157	Passivity analysis of memristive neural networks with mixed time-varying delays and different state-dependent memductance functions. Advances in Difference Equations, 2016, 2016, .	3.5	1
2158	Memristor based startup circuit for self biased circuits. AIP Conference Proceedings, 2016, , .	0.3	0
2159	High level abstraction of memristor model for neural network simulation. , 2016, , .		4
2160	A novel design of low power nonvolatile 10T1R SRAM cell. , 2016, , .		3
2161	Extending the classification of devices in singleâ€degreeâ€ofâ€freedom vibrating systems. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 269-270.	0.2	2
2162	Novel secret key generation techniques using memristor devices. AIP Advances, 2016, 6, .	0.6	20
2163	High-speed decoder design using memristor-based nano-crossbar architecture. , 2016, , .		6
2164	Anti-synchronization control for delayed memristor-based distributed parameter NNs with mixed boundary conditions. Advances in Difference Equations, 2016, 2016, .	3.5	4
2165	A Bambooâ€Like GaN Microwireâ€Based Piezotronic Memristor. Advanced Functional Materials, 2016, 26, 5307-5314.	7.8	24
2166	Practical method to make a discrete memristor based on the aqueous solution of copper sulfate. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	3
2167	Neural networks: An overview of early research, current frameworks and new challenges. Neurocomputing, 2016, 214, 242-268.	3.5	217
2168	Pilot assisted readout for passive memristor crossbars. Microelectronics Journal, 2016, 54, 48-58.	1.1	8
2169	Bipolar resistive switching in PbO nanoscale thin films. , 2016, , .		2
2170	Palladium 1D nanoscale aggregates on a graphite surface using CTAB hemicylindrical micelle templates. Dalton Transactions, 2016, 45, 11035-11041.	1.6	6
2171	Multiple Memristor Circuit Parametric Fault Diagnosis Using Feedback-Control Doublet Generator. IEEE Access, 2016, 4, 2604-2614.	2.6	15
2172	Analysis of Boolean Logic Gates Logical Complexity for Use with Spiking Memristor Gates. Lecture Notes in Computer Science, 2016, , 99-115.	1.0	0
2173	A novel heterogeneous FPGA architecture based on memristor-transistor hybrid approach. , 2016, , .		1
2174	A novel 4-D hyperchaotic four-wing memristive system. , 2016, , .		0

#	Article	IF	Citations
2175	Asymptotic synchronization for stochastic memristor-based neural networks with noise disturbance. Journal of the Franklin Institute, 2016, 353, 3271-3289.	1.9	51
2176	Harmonica: A Framework of Heterogeneous Computing Systems With Memristor-Based Neuromorphic Computing Accelerators. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 617-628.	3.5	49
2177	Exploring the Effect of LUT Size on the Area and Power Consumption of a Novel Memristor-Transistor Hybrid FPGA Architecture. Arabian Journal for Science and Engineering, 2016, 41, 3035-3049.	1.1	7
2178	Fault modeling and testing of resistive nonvolatile-8T SRAMs. , 2016, , .		3
2179	Printed non-volatile resistive switches based on zinc stannate (ZnSnO3). Current Applied Physics, 2016, 16, 757-762.	1.1	17
2180	Extended dissipative state estimation for memristive neural networks with time-varying delay. ISA Transactions, 2016, 64, 113-128.	3.1	61
2181	Impulsive synchronization for TS fuzzy model of memristor-based chaotic systems with parameter mismatches. International Journal of Control, Automation and Systems, 2016, 14, 854-864.	1.6	22
2182	From Circuit Theory to Modeling, Large Networks and VLSI Design. IEEE Circuits and Systems Magazine, 2016, 16, 11-15.	2.6	0
2183	Observation of Quantized and Partial Quantized Conductance in Polymer-Suspended Graphene Nanoplatelets. Nanoscale Research Letters, 2016, 11, 179.	3.1	9
2185	Coexisting attractors in a memcapacitor-based chaotic oscillator. Nonlinear Dynamics, 2016, 86, 37-50.	2.7	48
2186	Fracmemristor: Fractional-Order Memristor. IEEE Access, 2016, 4, 1872-1888.	2.6	151
2187	Spintronic Memristor as Interface Between DNA and Solid State Devices. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2016, 6, 212-221.	2.7	3
2188	Noise on resistive switching: a Fokker–Planck approach. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 054043.	0.9	6
2189	Investigations of the staircase memristor model and applications of memristor-based local connections. Analog Integrated Circuits and Signal Processing, 2016, 87, 263-273.	0.9	10
2190	Stability and synchronization analysis of inertial memristive neural networks with time delays. Cognitive Neurodynamics, 2016, 10, 437-451.	2.3	92
2191	Resistive switching characteristics in memristors with Al ₂ O ₃ /TiO ₂ and TiO ₂ /Al ₂ O ₃ bilayers. Japanese Journal of Applied Physics, 2016, 55, 08PB02.	0.8	26
2192	Parasitic Effects on Memristor Dynamics. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1630014.	0.7	21
2193	Optimal Synchronization of a Memristive Chaotic Circuit. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650093.	0.7	15

#	Article	IF	CITATIONS
2194	A memristive circular buffer for real-time signal processing. , 2016, , .		0
2195	Multi-objective BDD optimization for RRAM based circuit design. , 2016, , .		15
2196	Alternative Architectures Toward Reliable Memristive Crossbar Memories. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2016, 24, 206-217.	2.1	35
2197	Generalized boundary condition memristor model. International Journal of Circuit Theory and Applications, 2016, 44, 60-84.	1.3	59
2198	Novel Stability Criteria for Impulsive Memristive Neural Networks with Time-Varying Delays. Circuits, Systems, and Signal Processing, 2016, 35, 3935-3956.	1.2	17
2199	A novel memristive cellular neural network with time-variant templates. Perspectives in Science, 2016, 7, 126-132.	0.6	1
2200	State of the art of metal oxide memristor devices. Nanotechnology Reviews, 2016, 5, .	2.6	147
2201	2D bifurcations and Newtonian properties of memristive Chua's circuits. Europhysics Letters, 2016, 113, 10005.	0.7	20
2202	Suppressing chaos in a simplest autonomous memristor-based circuit of fractional order by periodic impulses. Chaos, Solitons and Fractals, 2016, 84, 31-40.	2.5	29
2203	Memristive and Memcapacitive Models ofÂPhysarum Learning. Emergence, Complexity and Computation, 2016, , 413-422.	0.2	2
2204	On the Memristive Properties of Slime Mould. Emergence, Complexity and Computation, 2016, , 75-90.	0.2	0
2205	Physarum in Hybrid Electronic Devices. Emergence, Complexity and Computation, 2016, , 91-107.	0.2	2
2206	Memcomputing Implementation of Ant Colony Optimization. Neural Processing Letters, 2016, 44, 265-277.	2.0	11
2207	Multilevel characteristics for bipolar resistive random access memory based on hafnium doped SiO2 switching layer. Materials Science in Semiconductor Processing, 2016, 43, 144-148.	1.9	20
2208	New conditions on synchronization of memristor-based neural networks via differential inclusions. Neurocomputing, 2016, 186, 235-250.	3.5	16
2209	Exponential passivity of memristive neural networks with mixed time-varying delays. Journal of the Franklin Institute, 2016, 353, 688-712.	1.9	14
2210	Fabrication of zinc stannate based all-printed resistive switching device. Materials Letters, 2016, 166, 311-316.	1.3	28
2211	Parameter estimation of unknown fractional-order memristor-based chaotic systems by a hybrid artificial bee colony algorithm combined with differential evolution. Nonlinear Dynamics, 2016, 84, 779-795.	2.7	26

#	Article	IF	Citations
2212	A Novel Window Function for Memristor Model With Application in Programming Analog Circuits. IEEE Transactions on Circuits and Systems II: Express Briefs, 2016, 63, 423-427.	2.2	82
2213	The Case of Bidirectionally Coupled Nonlinear Circuits Via a Memristor. Studies in Computational Intelligence, 2016, , 317-350.	0.7	14
2214	Role and Optimization of the Active Oxide Layer in TiO ₂ â€Based RRAM. Advanced Functional Materials, 2016, 26, 507-513.	7.8	49
2215	Modeling and Suppression of Chaotic Ferroresonance in a Power System by Using Memristor-based System. Electric Power Components and Systems, 2016, 44, 638-645.	1.0	13
2216	Magnetization switching by spin–orbit torque in an antiferromagnet–ferromagnet bilayer system. Nature Materials, 2016, 15, 535-541.	13.3	782
2217	Memristive behaviour of highâ€impedance faults. Electronics Letters, 2016, 52, 300-302.	O . 5	1
2218	Passivity analysis of memristive neural networks with probabilistic time-varying delays. Neurocomputing, 2016, 191, 249-262.	3.5	46
2219	A memristor-based pixel implementing light-to-resistance conversion. Optical Engineering, 2016, 55, 020501.	0.5	7
2220	Existence and global exponential stability of periodic solution of memristor-based BAM neural networks with time-varying delays. Neural Networks, 2016, 75, 97-109.	3.3	68
2222	Niobium oxides and niobates physical properties: Review and prospects. Progress in Materials Science, 2016, 80, 1-37.	16.0	373
2223	Study on Time Domain Characteristics of Memristive RLC Series Circuits. Circuits, Systems, and Signal Processing, 2016, 35, 4129-4138.	1.2	11
2224	Stability analysis of reaction-diffusion uncertain memristive neural networks with time-varying delays and leakage term. Applied Mathematics and Computation, 2016, 278, 54-69.	1.4	135
2225	A 250 mV Cu/SiO ₂ /W Memristor with Half-Integer Quantum Conductance States. Nano Letters, 2016, 16, 1602-1608.	4.5	92
2226	Complex Systems, Nonlinear Dynamics, and Local Activity Principle., 2016, , 297-310.		0
2227	Observed coexistence of memristive, memcapacitive and meminductive characteristics in polyvinyl alcohol/cadmium sulphide nanocomposites. Journal of Materials Science: Materials in Electronics, 2016, 27, 4551-4558.	1.1	15
2228	Electrophysiology of pumpkin seeds: Memristors in vivo. Plant Signaling and Behavior, 2016, 11, e1151600.	1.2	12
2229	Statistical yield improvement under process variations of multi-valued memristor-based memories. Microelectronics Journal, 2016, 51, 46-57.	1.1	11
2230	An optimal linear system approximation of nonlinear fractional-order memristor–capacitor charging circuit. Microelectronics Journal, 2016, 51, 58-66.	1.1	16

#	Article	IF	CITATIONS
2231	An organic terpyridyl-iron polymer based memristor for synaptic plasticity and learning behavior simulation. RSC Advances, 2016, 6, 25179-25184.	1.7	48
2233	Memristive Behavior and Ideal Memristor of 1T Phase MoS ₂ Nanosheets. Nano Letters, 2016, 16, 572-576.	4.5	317
2234	Reliable anti-synchronization conditions for BAM memristive neural networks with different memductance functions. Applied Mathematics and Computation, 2016, 275, 213-228.	1.4	97
2235	A novel memristive neural network with hidden attractors and its circuitry implementation. Science China Technological Sciences, 2016, 59, 358-363.	2.0	172
2236	Finite-time stabilization control of memristor-based neural networks. Nonlinear Analysis: Hybrid Systems, 2016, 20, 37-54.	2.1	54
2237	Exponential stabilization and synchronization for fuzzy model of memristive neural networks by periodically intermittent control. Neural Networks, 2016, 75, 162-172.	3.3	143
2238	Synchronization of Delayed Memristive Neural Networks: Robust Analysis Approach. IEEE Transactions on Cybernetics, 2016, 46, 3377-3387.	6.2	219
2239	A new floating memristor emulator and its application in frequency-to-voltage conversion. Analog Integrated Circuits and Signal Processing, 2016, 86, 141-147.	0.9	58
2240	Design of a hybrid non-volatile SRAM cell for concurrent SEU detection and correction. The Integration VLSI Journal, 2016, 52, 156-167.	1.3	2
2241	Finite-Time Boundedness Analysis of Memristive Neural Network with Time-Varying Delay. Neural Processing Letters, 2016, 44, 665-679.	2.0	12
2242	Non-fragile <mml:math altimg="si43.gif" display="inline" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mi>â^ž<td>nl:វា&<td>าาไม_{ีใ}นtow><!--เ</td--></td></td></mml:mi></mml:mrow></mml:msub></mml:math>	nl :វា & <td>าาไม_{ีใ}นtow><!--เ</td--></td>	าาไ ม_{ีใ}น tow> เ</td
2243	Efficient Associative Computation with Discrete Synapses. Neural Computation, 2016, 28, 118-186.	1.3	9
2244	Synchronization of delayed Markovian jump memristive neural networks with reaction–diffusion terms via sampled data control. International Journal of Machine Learning and Cybernetics, 2016, 7, 157-169.	2.3	52
2245	Exponential stability of memristor-based synchronous switching neural networks with time delays. International Journal of Biomathematics, 2016, 09, 1650016.	1.5	2
2246	Canards Existence in Memristor's Circuits. Qualitative Theory of Dynamical Systems, 2016, 15, 383-431.	0.8	9
2247	Chaos in a Single Op-Amp–Based Jerk Circuit: Experiments and Simulations. IEEE Transactions on Circuits and Systems II: Express Briefs, 2016, 63, 239-243.	2.2	36
2248	Improved passivity criteria for memristive neural networks with interval multiple time-varying delays. Neurocomputing, 2016, 171, 1414-1430.	3.5	15
2249	Exponential Synchronization of Coupled Stochastic Memristor-Based Neural Networks With Time-Varying Probabilistic Delay Coupling and Impulsive Delay. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 190-201.	7.2	195

#	Article	IF	Citations
2250	Impulsive controller design for exponential synchronization of delayed stochastic memristor-based recurrent neural networks. Neurocomputing, 2016, 173, 1348-1355.	3.5	82
2251	Bio-hybrid interfaces to study neuromorphic functionalities: New multidisciplinary evidences of cell viability on poly(anyline) (PANI), a semiconductor polymer with memristive properties. Biophysical Chemistry, 2016, 208, 40-47.	1.5	23
2252	A Spintronic Memristor-Based Neural Network With Radial Basis Function for Robotic Manipulator Control Implementation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 582-588.	5.9	77
2253	Synchronization Control of Neural Networks With State-Dependent Coefficient Matrices. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 2440-2447.	7.2	16
2254	Survey of Dynamics of Cohen–Grossberg-Type RNNs. Studies in Systems, Decision and Control, 2016, , 91-172.	0.8	1
2255	Lag Synchronization of Memristor-Based Coupled Neural Networks via -Measure. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 686-697.	7.2	114
2256	TMR and Al-O Based Magnetic Tunneling Junctions. , 2016, , 179-225.		2
2257	Finite-time synchronization of fractional-order memristor-based neural networks with time delays. Neural Networks, 2016, 73, 36-46.	3.3	231
2258	Feature Extraction Using Memristor Networks. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 2327-2336.	7.2	62
2259	Stability and synchronization of memristor-based coupling neural networks with time-varying delays via intermittent control. Neurocomputing, 2016, 173, 1066-1072.	3.5	90
2260	Further results for global exponential stability of stochastic memristor-based neural networks with time-varying delays. International Journal of Systems Science, 2016, 47, 3573-3580.	3.7	10
2261	Hybrid projective synchronization of fractional-order memristor-based neural networks with time delays. Nonlinear Dynamics, 2016, 83, 419-432.	2.7	60
2262	Memristor-Based Nanoelectronic Computing Circuits and Architectures. Emergence, Complexity and Computation, $2016, , .$	0.2	51
2263	Relaxed dissipativity criteria for memristive neural networks with leakage and time-varying delays. Neurocomputing, 2016, 171, 708-718.	3.5	20
2264	One of signatures of a memristor. Communications in Nonlinear Science and Numerical Simulation, 2016, 30, 128-138.	1.7	2
2265	Pavlov associative memory in a memristive neural network and its circuit implementation. Neurocomputing, 2016, 171, 23-29.	3.5	71
2266	Global exponential stability of memristive neural networks with impulse time window and time-varying delays. Neurocomputing, 2016, 171, 1021-1026.	3.5	12
2267	Analog Emulator of Genuinely Floating Memcapacitor with Piecewise-Linear Constitutive Relation. Circuits, Systems, and Signal Processing, 2016, 35, 43-62.	1.2	17

#	Article	IF	CITATIONS
2268	Small-world Hopfield neural networks with weight salience priority and memristor synapses for digit recognition. Neural Computing and Applications, 2016, 27, 837-844.	3.2	50
2269	Global dissipativity of memristor-based complex-valued neural networks with time-varying delays. Neural Computing and Applications, 2016, 27, 629-649.	3.2	45
2270	A novel high-frequency interpretation of a general purpose Op-Amp-based negative resistance for chaotic vibrations in a simple a priori nonchaotic circuit. JVC/Journal of Vibration and Control, 2017, 23, 744-751.	1.5	12
2271	Impulsive Effects and Stability Analysis on Memristive Neural Networks With Variable Delays. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 476-481.	7.2	49
2272	Exponential Stability of Complex-Valued Memristive Recurrent Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 766-771.	7.2	141
2273	Stability analysis of stochastic memristor-based recurrent neural networks with mixed time-varying delays. Neural Computing and Applications, 2017, 28, 1787-1799.	3.2	22
2274	Using a memristor crossbar structure to implement a novel adaptive real-time fuzzy modeling algorithm. Fuzzy Sets and Systems, 2017, 307, 115-128.	1.6	17
2275	Realistic Hodgkin–Huxley Axons Using Stochastic Behavior of Memristors. Neural Processing Letters, 2017, 45, 1-14.	2.0	24
2276	New algebraic conditions for ISS of memristive neural networks with variable delays. Neural Computing and Applications, 2017, 28, 2089-2097.	3.2	8
2277	Sliding-Mode Control of Memristive Chua's Systems via the Event-Based Method. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 81-85.	2.2	50
2278	Transient response characteristic of memristor circuits and biological-like current spikes. Neural Computing and Applications, 2017, 28, 3295-3305.	3.2	10
2279	Biosensors, memristors and actuators in electrical networks of plants. International Journal of Parallel, Emergent and Distributed Systems, 2017, 32, 44-55.	0.7	31
2280	Speeding Up Cellular Neural Network Processing Ability by Embodying Memristors. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1228-1232.	7.2	30
2281	Modular neuron comprises of memristor-based synapse. Neural Computing and Applications, 2017, 28, 1-11.	3.2	23
2282	Exponential stability analysis of delayed memristor-based recurrent neural networks with impulse effects. Neural Computing and Applications, 2017, 28, 669-678.	3.2	16
2283	Stability Analysis of Fractional Order Complex-Valued Memristive Neural Networks with Time Delays. Neural Processing Letters, 2017, 45, 379-399.	2.0	41
2284	Lag quasi-synchronization for memristive neural networks with switching jumps mismatch. Neural Computing and Applications, 2017, 28, 4011-4022.	3.2	39
2285	Generalized two-port elements. Communications in Nonlinear Science and Numerical Simulation, 2017, 42, 451-455.	1.7	9

#	Article	IF	CITATIONS
2286	A Novel Modeling Methodology for Memristive Systems Using Homotopy Perturbation Methods. Circuits, Systems, and Signal Processing, 2017, 36, 947-968.	1.2	6
2287	Exponential Synchronization of Memristive Neural Networks With Delays: Interval Matrix Method. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1878-1888.	7.2	203
2288	Multiple memristor series–parallel connections with use in synaptic circuit design. IET Circuits, Devices and Systems, 2017, 11, 123-134.	0.9	19
2289	A Memristive Multilayer Cellular Neural Network With Applications to Image Processing. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1889-1901.	7.2	122
2290	Quasi-uniform stability of Caputo-type fractional-order neural networks with mixed delay. International Journal of Machine Learning and Cybernetics, 2017, 8, 1501-1511.	2.3	22
2291	MAD Gates—Memristor Logic Design Using Driver Circuitry. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 171-175.	2.2	62
2292	A Logic Circuit Design for Perfecting Memristor-Based Material Implication. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2017, 36, 279-284.	1.9	49
2293	A Survey of Memristive Threshold Logic Circuits. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1734-1746.	7.2	96
2294	Implementation of a new memristor-based multiscroll hyperchaotic system. Pramana - Journal of Physics, 2017, 88, 1.	0.9	31
2295	Experimental study of LiNbO3 memristors for use in neuromorphic computing. Microelectronic Engineering, 2017, 168, 37-40.	1.1	34
2296	Memristor emulator with spike-timing-dependent-plasticity. AEU - International Journal of Electronics and Communications, 2017, 73, 16-22.	1.7	70
2297	Finite-time synchronization of memristor-based neural networks with mixed delays. Neurocomputing, 2017, 235, 83-89.	3.5	60
2298	Quasi-uniform synchronization of fractional-order memristor-based neural networks with delay. Neurocomputing, 2017, 234, 205-215.	3.5	59
2299	Spin crossover in Fe(phen)2(NCS)2 complexes on metallic surfaces. Journal of Chemical Physics, 2017, 146, .	1.2	78
2300	On Building Practical Biocomputers for Real-world Applications: Receptacles for Culturing Slime Mould Memristors and Component Standardisation. Journal of Bionic Engineering, 2017, 14, 151-162.	2.7	12
2301	Single CCTA based high frequency floating and grounded type of incremental/decremental memristor emulator and its application. Microelectronics Journal, 2017, 60, 119-128.	1.1	83
2302	Optimized Memristor-Based Multipliers. IEEE Transactions on Circuits and Systems I: Regular Papers, 2017, 64, 373-385.	3.5	42
2303	Reconfiguration on nanocrossbar using material implication. Sadhana - Academy Proceedings in Engineering Sciences, 2017, 42, 33-44.	0.8	0

#	Article	IF	CITATIONS
2304	Memcapacitor model and its application in chaotic oscillator with memristor. Chaos, 2017, 27, 013110.	1.0	33
2305	Neuromemristive Systems: A Circuit Design Perspective. Cognitive Systems Monographs, 2017, , 45-64.	0.1	3
2306	A flexible memristive model with simplex basis function. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2017, 30, e2183.	1.2	2
2307	Passivity analysis and state estimation for a class of memristor-based neural networks with multiple proportional delays. Advances in Difference Equations, 2017, 2017, .	3.5	4
2308	Dynamical Models of Electric Arcs and Memristors: The Common Properties. IEEE Transactions on Plasma Science, 2017, 45, 259-265.	0.6	15
2309	Analysis of memristors with nonlinear memristance versus state maps. International Journal of Circuit Theory and Applications, 2017, 45, 1814-1832.	1.3	7
2310	Fixed-time synchronization of delayed memristor-based recurrent neural networks. Science China Information Sciences, 2017, 60, 1.	2.7	262
2311	Memristor-Based Platforms: A Comparison Between Continous-Time and Discrete-Time Cellular Neural Networks. Cognitive Systems Monographs, 2017, , 65-79.	0.1	1
2312	Nonlinear Dynamic Analysis of a Simplest Fractional-Order Delayed Memristive Chaotic System. Journal of Computational and Nonlinear Dynamics, 2017, 12, .	0.7	12
2313	Memristor Emulators: A Note on Modeling. Studies in Computational Intelligence, 2017, , 1-17.	0.7	4
2314	Adaptive Control and Synchronization of a Memristor-Based Shinriki's System. Studies in Computational Intelligence, 2017, , 237-261.	0.7	9
2315	Memristive-Based Neuromorphic Applications and Associative Memories. Studies in Computational Intelligence, 2017, , 305-342.	0.7	5
2316	Analysis of Dynamic Linear Memristor Device Models. Studies in Computational Intelligence, 2017, , 449-476.	0.7	7
2317	A Hyperjerk Memristive System with Hidden Attractors. Studies in Computational Intelligence, 2017, , 59-80.	0.7	5
2318	A Memristive System with Hidden Attractors and Its Engineering Application. Studies in Computational Intelligence, 2017, , 81-99.	0.7	3
2319	RF/Microwave Applications of Memristors. Studies in Computational Intelligence, 2017, , 159-185.	0.7	11
2320	Memristive oscillator based on Chua's circuit: stability analysis and hidden dynamics. Nonlinear Dynamics, 2017, 88, 2577-2587.	2.7	33
2321	Distributed In-Memory Computing on Binary Memristor-Crossbar for Machine Learning. Studies in Computational Intelligence, 2017, , 275-304.	0.7	3

#	Article	IF	CITATIONS
2322	Experimental Analogue Implementation of Memristor Based Chaotic Oscillators. Studies in Computational Intelligence, 2017, , 343-370.	0.7	4
2323	Classification accuracy improvement for neuromorphic computing systems with one-level precision synapses., 2017,,.		11
2324	Canonic Memristor: Bipolar Electrical Switching in Metal-Metal Contacts. Studies in Computational Intelligence, 2017, , 263-273.	0.7	1
2325	A Novel Flux-Controlled Memristive Emulator for Analog Applications. Studies in Computational Intelligence, 2017, , 493-511.	0.7	5
2326	Modern System Design Using Memristors. Studies in Computational Intelligence, 2017, , 131-157.	0.7	0
2327	Physarum Inspired Audio: From Oscillatory Sonification to Memristor Music., 2017,, 181-218.		0
2328	An image encryption scheme based on three-dimensional Brownian motion and chaotic system. Chinese Physics B, 2017, 26, 020504.	0.7	38
2329	Global stabilization of memristor-based fractional-order neuralÂnetworks with delay via output-feedback control. Modern Physics Letters B, 2017, 31, 1750031.	1.0	20
2330	Synaptic Plasticity and Learning Behaviors Mimicked in Single Inorganic Synapses of Pt/HfOx/ZnOx/TiN Memristive System. Nanoscale Research Letters, 2017, 12, 65.	3.1	46
2331	Adaptive Control, Synchronization and Circuit Simulation of a Memristor-Based Hyperchaotic System With Hidden Attractors. Studies in Computational Intelligence, 2017, , 101-130.	0.7	6
2332	Antimonotonicity, chaos and multiple attractors in a novel autonomous memristor-based jerk circuit. Nonlinear Dynamics, 2017, 88, 2589-2608.	2.7	158
2333	Dynamics of Delayed Memristive Systems in Combination Chaotic Circuits. Studies in Computational Intelligence, 2017, , 477-492.	0.7	1
2334	A memristor-based neuromorphic engine with a current sensing scheme for artificial neural network applications. , 2017, , .		21
2335	Modeling triplet spike-timing-dependent plasticity using memristive devices. Journal of Computational Electronics, 2017, 16, 401-410.	1.3	8
2336	Lag synchronization for fractional-order memristive neural networks via period intermittent control. Nonlinear Dynamics, 2017, 89, 367-381.	2.7	62
2337	Synchronization and chaos in coupled memristor-based FitzHugh-Nagumo circuits with memristor synapse. AEU - International Journal of Electronics and Communications, 2017, 75, 82-90.	1.7	91
2338	Effect of device structure on the resistive switching characteristics of organic polymers fabricated through all printed technology. Current Applied Physics, 2017, 17, 533-540.	1.1	47
2339	Exponential synchronization of memristor-based neural networks with time-varying delay and stochastic perturbation. Neurocomputing, 2017, 242, 131-139.	3.5	28

#	Article	IF	Citations
2340	Novel switching design for finite-time stabilization: Applications to memristor-based neural networks with time-varying delay. Chaos, 2017, 27, 023112.	1.0	2
2341	Compound Synchronization Based on Memristive Cellular Neural Network of Chaos System. Journal of Computational and Nonlinear Dynamics, 2017, 12, .	0.7	5
2342	Cathodic arc sputtering of functional titanium oxide thin films, demonstrating resistive switching. Physica B: Condensed Matter, 2017, 513, 15-20.	1.3	7
2343	Bipolar resistive switching in Si/Ag nanostructures. Applied Surface Science, 2017, 424, 122-126.	3.1	14
2344	Global dissipativity of memristor-based neutral type inertial neural networks. Neural Networks, 2017, 88, 125-133.	3.3	110
2345	Pinched hysteresis loops and symmetry. IET Science, Measurement and Technology, 2017, 11, 134-140.	0.9	1
2346	Fractional-order charge-controlled memristor: theoretical analysis and simulation. Nonlinear Dynamics, 2017, 87, 2625-2634.	2.7	35
2347	The dynamic conductance response and mechanics-modulated memristive behavior of the Azurin monolayer under cyclic loads. Physical Chemistry Chemical Physics, 2017, 19, 6757-6767.	1.3	5
2348	Device-size dependence of field-free spin-orbit torque induced magnetization switching in antiferromagnet/ferromagnet structures. Applied Physics Letters, 2017, 110, .	1.5	66
2349	HTM Spatial Pooler With Memristor Crossbar Circuits for Sparse Biometric Recognition. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 640-651.	2.7	36
2350	An Approach to Building Musical Bioprocessors with Physarum polycephalum Memristors. , 2017, , 219-244.		2
2351	Memristor and Inverse Memristor: Modeling, Implementation and Experiments. Studies in Computational Intelligence, 2017, , 371-392.	0.7	15
2352	Synaptic behaviour in ZnO–rGO composites thin film memristor. Electronics Letters, 2017, 53, 296-298.	0.5	19
2353	Gate-tunable, normally-on to normally-off memristance transition in patterned LaAlO3/SrTiO3 interfaces. Applied Physics Letters, 2017, 110, .	1.5	7
2354	Quantum Memristors with Superconducting Circuits. Scientific Reports, 2017, 7, 42044.	1.6	46
2355	Robustness Analysis of a Memristive Crossbar PUF Against Modeling Attacks. IEEE Nanotechnology Magazine, 2017, 16, 396-405.	1.1	56
2356	Emergent Complexity from Nonlinearity, in Physics, Engineering and the Life Sciences. Springer Proceedings in Physics, 2017, , .	0.1	3
2357	Probing electrochemistry at the nanoscale: in situ TEM and STM characterizations of conducting filaments in memristive devices. Journal of Electroceramics, 2017, 39, 73-93.	0.8	28

#	Article	IF	CITATIONS
2358	A simple meminductor-based chaotic system with complicated dynamics. Nonlinear Dynamics, 2017, 88, 2071-2089.	2.7	24
2359	A New Circuit for Emulating Memristors Using Inductive Coupling. IEEE Access, 2017, 5, 1284-1295.	2.6	43
2360	Similarity between the response of memristive and memcapacitive circuits subjected to ramped voltage. Journal of Nanophotonics, 2017, 11, 032507.	0.4	0
2361	Hysteresis in Muscle. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1730003.	0.7	6
2362	Delay-Dependent Passivity and Stability Analysis for a Class of Memristor-Based Neural Networks with Time Delay in the Leakage Term. Neural Processing Letters, 2017, 46, 467-485.	2.0	3
2363	A Memristor-Based Lorenz Circuit and Its Stabilization via Variable-Time Impulsive Control. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750031.	0.7	7
2364	Distributed In-Memory Computing on Binary RRAM Crossbar. ACM Journal on Emerging Technologies in Computing Systems, 2017, 13, 1-18.	1.8	35
2365	A Memristor-Based Hyperchaotic System with Hidden Attractor and Its Sliding Mode Control. Studies in Computational Intelligence, 2017, , 343-369.	0.7	2
2366	Adaptive Synchronization of Stochastic Memristor-Based Neural Networks with Mixed Delays. Neural Processing Letters, 2017, 46, 969-990.	2.0	12
2367	Pulse Responses of the Conducting Polymer Poly(3,4-ethylenedioxythiophene): Poly(styrenesulfonate)-Based Junctions. Journal of Electronic Materials, 2017, 46, 1849-1854.	1.0	1
2368	Region stability analysis for switched discrete-time recurrent neural network with multiple equilibria. Neurocomputing, 2017, 249, 182-190.	3.5	17
2369	Emerging Technology and Architecture for Big-data Analytics. , 2017, , .		4
2370	A niobium oxide-tantalum oxide selector-memristor self-aligned nanostack. Applied Physics Letters, 2017, 110, .	1.5	25
2371	Global exponential stability of inertial memristor-based neural networks with time-varying delays and impulses. Neural Networks, 2017, 95, 102-109.	3.3	67
2372	Zero-static-power nonvolatile logic-in-memory circuits for flexible electronics. Nano Research, 2017, 10, 2459-2470.	5.8	39
2373	Lag Synchronization Criteria for Memristor-Based Coupled Neural Networks via Parameter Mismatches Analysis Approach. Neural Computation, 2017, 29, 1721-1744.	1.3	15
2374	Memcomputing (Memristor + Computing) in Intrinsic SiO _x -Based Resistive Switching Memory: Arithmetic Operations for Logic Applications. IEEE Transactions on Electron Devices, 2017, 64, 2977-2983.	1.6	36
2375	Nanoionicsâ€Enabled Memristive Devices: Strategies and Materials for Neuromorphic Applications. Advanced Electronic Materials, 2017, 3, 1600510.	2.6	167

#	Article	IF	CITATIONS
2376	An RRAM-based MLC design approach. Microelectronics Journal, 2017, 64, 9-18.	1.1	5
2377	Transporting an ionic-liquid/water mixture in a conical nanochannel: a nanofluidic memristor. Chemical Communications, 2017, 53, 6125-6127.	2.2	54
2378	Non-volatile low-power crossbar memcapacitor-based memory. Microelectronics Journal, 2017, 64, 39-44.	1.1	13
2379	Tolerance of intrinsic device variation in fuzzy restricted Boltzmann machine network based on memristive nano-synapses. Nano Futures, 2017, 1, 015003.	1.0	11
2380	Cyber-Medical Systems: Requirements, Components and Design Examples. IEEE Transactions on Circuits and Systems I: Regular Papers, 2017, 64, 2226-2236.	3.5	4
2381	Adaptive synchronization of memristive neural networks with time-varying delays and reaction–diffusion term. Applied Mathematics and Computation, 2017, 311, 118-128.	1.4	55
2382	Existence, uniqueness, and exponential stability analysis for complex-valued memristor-based BAM neural networks with time delays. Applied Mathematics and Computation, 2017, 311, 100-117.	1.4	90
2383	Memristor-based nonvolatile synchronous flip-flop circuits. , 2017, , .		16
2384	Memristor for computing: Myth or reality?., 2017,,.		79
2385	A Synaptic Transistor based on Quasiâ€2D Molybdenum Oxide. Advanced Materials, 2017, 29, 1700906.	11.1	304
2386	Adder implementation in reconfigurable resistive switching crossbar., 2017,,.		0
2387	Carbon nanowalls: A new material for resistive switching memory devices. Carbon, 2017, 120, 54-62.	5.4	42
2388	Event-triggered sampling control for stability and stabilization of memristive neural networks with communication delays. Applied Mathematics and Computation, 2017, 310, 57-74.	1.4	174
2389	Probing nanoscale oxygen ion motion in memristive systems. Nature Communications, 2017, 8, 15173.	5.8	149
2390	Primary cortical neurons on PMCS TiO 2 films towards bio-hybrid memristive device: A morpho-functional study. Biophysical Chemistry, 2017, 229, 115-122.	1.5	9
2391	Correlated resistive/capacitive state variability in solid TiO2 based memory devices. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	3
2392	Characteristics and transport mechanisms of triple switching regimes of TaOx memristor. Applied Physics Letters, 2017, 110, .	1.5	35
2393	Electrical Nonlinearity Emulation Technique for Current-Controlled Memristive Devices. IEEE Access, 2017, 5, 5399-5409.	2.6	35

#	Article	IF	CITATIONS
2394	Memristor-capacitor passive filters to tune both cut-off frequency and bandwidth. Proceedings of SPIE, $2017, \ldots$	0.8	0
2395	Synchronization of coupled memristive chaotic circuits via state-dependent impulsive control. Nonlinear Dynamics, 2017, 88, 115-129.	2.7	23
2396	Conduction Mechanisms in Multiferroic Multilayer BaTiO3/NiFe2O4/BaTiO3 Memristors. Journal of Electronic Materials, 2017, 46, 5492-5496.	1.0	11
2397	Thermal memristor and neuromorphic networks for manipulating heat flow. AIP Advances, 2017, 7, .	0.6	18
2398	Stop and Go adaptive strategy for synchronization of delayed memristive recurrent neural networks with unknown synaptic weights. Journal of the Franklin Institute, 2017, 354, 4989-5010.	1.9	13
2399	Recent Advances on Neuromorphic Systems Using Phase-Change Materials. Nanoscale Research Letters, 2017, 12, 347.	3.1	65
2400	A review for dynamics in neuron and neuronal network. Nonlinear Dynamics, 2017, 89, 1569-1578.	2.7	332
2401	Pinning synchronization of memristor-based neural networks with time-varying delays. Neural Networks, 2017, 93, 143-151.	3.3	46
2402	Accurate charge transport model for nanoionic memristive devices. Microelectronics Journal, 2017, 65, 49-57.	1.1	15
2403	Optical memristive switches. Journal of Electroceramics, 2017, 39, 239-250.	0.8	40
2404	Fabrication and characterisation of fluidic based memristor sensor for liquid with hydroxyl group. Sensing and Bio-Sensing Research, 2017, 14, 21-29.	2.2	13
2405	Effect of variable memristor emulator in a Duffing nonlinear oscillator. AIP Conference Proceedings, 2017, , .	0.3	3
2406	A memristor based binary multiplier. , 2017, , .		6
2407	Finite-time projective synchronization of memristor-based delay fractional-order neural networks. Nonlinear Dynamics, 2017, 89, 2641-2655.	2.7	78
2408	An enhanced lumped element electrical model of a double barrier memristive device. Journal Physics D: Applied Physics, 2017, 50, 195102.	1.3	18
2409	Studies of dynamics of memristor-based memory cells. , 2017, , .		2
2410	Smart Fluid Systems: The Advent of Autonomous Liquid Robotics. Advanced Science, 2017, 4, 1700036.	5.6	80
2411	Crystal that remembers: several ways to utilize nanocrystals in resistive switching memory. Journal Physics D: Applied Physics, 2017, 50, 303002.	1.3	34

#	Article	IF	CITATIONS
2412	Reset switching statistics of TaOx-based Memristor. Journal of Electroceramics, 2017, 39, 132-136.	0.8	8
2413	Bipolar resistive switching in PVDF and Graphene Oxide hetero-structure thin films. Journal of Alloys and Compounds, 2017, 722, 579-584.	2.8	14
2414	Energy consumption analysis for the read and write mode of the memristor with voltage threshold in the real-time control system. Neurocomputing, 2017, 266, 477-484.	3.5	2
2415	Three-dimensional crossbar arrays of self-rectifying Si/SiO2/Si memristors. Nature Communications, 2017, 8, 15666.	5.8	153
2416	Interfacial memristors in Al–LaNiO ₃ heterostructures. Physical Chemistry Chemical Physics, 2017, 19, 16960-16968.	1.3	6
2417	A 4D Hyperjerk memristive system with hidden attractors. , 2017, , .		2
2418	On the analysis of current-controlled fractional-order memristor emulator. , 2017, , .		16
2419	Memcapacitor based charge pump. , 2017, , .		1
2420	Ferroelectric memory resistive behavior in BaTiO 3 /Nb doped SrTiO 3 heterojunctions. Thin Solid Films, 2017, 643, 60-64.	0.8	10
2421	On-chip training of memristor crossbar based multi-layer neural networks. Microelectronics Journal, 2017, 66, 31-40.	1.1	72
2422	Sparse coding with memristor networks. Nature Nanotechnology, 2017, 12, 784-789.	15.6	510
2423	A memristor crossbar array of titanium oxide for non-volatile memory and neuromorphic applications. Semiconductor Science and Technology, 2017, 32, 065014.	1.0	43
2424	Oxide-based RRAM models for circuit designers: A comparative analysis. , 2017, , .		17
2425	Memristive devices: Technology, design automation and computing frontiers. , 2017, , .		3
2426	Resistive switching characteristics of MIM structures based on oxygen-variable ultra-thin HfO 2 and fabricated at low temperature. Materials Science in Semiconductor Processing, 2017, 66, 191-199.	1.9	9
2427	Master–slave exponential synchronization of delayed complex-valued memristor-based neural networks via impulsive control. Neural Networks, 2017, 93, 165-175.	3.3	81
2428	Edge of chaos in reaction diffusion CNN model. Open Mathematics, 2017, 15, 21-29.	0.5	6
2429	The nonlinear meminductor models with its study on the device parameters variation. , 2017, , .		2

#	Article	IF	CITATIONS
2430	Memristor standard cellular neural networks computing in the flux–charge domain. Neural Networks, 2017, 93, 152-164.	3.3	44
2431	ZnO and ZnO1â^x based thin film memristors: The effects of oxygen deficiency and thickness in resistive switching behavior. Ceramics International, 2017, 43, 10770-10775.	2.3	53
2432	Hardware design of LIF with Latency neuron model with memristive STDP synapses. The Integration VLSI Journal, 2017, 59, 81-89.	1.3	28
2433	Passivity of memristor-based recurrent neural networks with multi-proportional delays. Neurocomputing, 2017, 266, 485-493.	3. 5	9
2434	Finite-time synchronization of inertial memristive neural networks with time-varying delays via sampled-date control. Neurocomputing, 2017, 266, 527-539.	3.5	76
2435	Numerical analysis of memristor-based circuits with semi-implicit methods. , 2017, , .		6
2436	Magnetization switching schemes for nanoscale three-terminal spintronics devices. Japanese Journal of Applied Physics, 2017, 56, 0802A1.	0.8	40
2437	Sampled-data state estimation for delayed memristive neural networks with reaction-diffusion terms: Hardy–PoincarÔ inequality. Neurocomputing, 2017, 266, 494-505.	3.5	12
2438	Solitonic Josephson-based meminductive systems. Scientific Reports, 2017, 7, 46736.	1.6	30
2439	Attempt to generalize fractional-order electric elements to complex-order ones. Chinese Physics B, 2017, 26, 060503.	0.7	7
2440	Finite-Time Lag Synchronization for Memristive Mixed Delays Neural Networks with Parameter Mismatch. Neural Processing Letters, 2017, 47, 365.	2.0	1
2441	On the implementation of audio envelope generators with memristor-based circuits. , 2017, , .		0
2442	Millivolt Modulation of Plasmonic Metasurface Optical Response via Ionic Conductance. Advanced Materials, 2017, 29, 1701044.	11.1	66
2443	Fully Printed Memristors from Cu–SiO2 Core–Shell Nanowire Composites. Journal of Electronic Materials, 2017, 46, 4596-4603.	1.0	24
2444	Learning through ferroelectric domain dynamics in solid-state synapses. Nature Communications, 2017, 8, 14736.	5.8	437
2445	Mean square exponential input-to-state stability of stochastic memristive complex-valued neural networks with time varying delay. International Journal of Systems Science, 2017, 48, 1966-1977.	3.7	29
2446	Generating Four-Wing Hyperchaotic Attractor and Two-Wing, Three-Wing, and Four-Wing Chaotic Attractors in 4D Memristive System. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750027.	0.7	80
2447	Non-fragile state observation for delayed memristive neural networks: Continuous-time case and discrete-time case. Neurocomputing, 2017, 245, 102-113.	3.5	23

#	Article	IF	CITATIONS
2448	Finite-time stability analysis of fractional-order complex-valued memristor-based neural networks with both leakage and time-varying delays. Neurocomputing, 2017, 245, 86-101.	3.5	94
2449	Fusion of Image Storage and Operation Based on Ag-Chalcogenide Memristor with Synaptic Plasticity. Journal of Circuits, Systems and Computers, 2017, 26, 1750161.	1.0	5
2450	Associative learning with Y-shaped floating gate transistors operated in memristive modes. Applied Physics Letters, $2017,110,$	1.5	7
2451	Voltage-polarity dependent multi-mode resistive switching on sputtered MgO nanostructures. Physical Chemistry Chemical Physics, 2017, 19, 10898-10904.	1.3	18
2452	How to teach memristors in school. Physics Education, 2017, 52, 033008.	0.3	4
2453	Multi-piecewise quadratic nonlinearity memristor and its 2 <i>N</i> -scroll and 2 <i>N</i> + 1-scroll chaotic attractors system. Chaos, 2017, 27, 033114.	1.0	97
2454	An Overview on Memristor-Based Non-volatile LUT of an FPGA. Lecture Notes in Electrical Engineering, 2017, , 117-132.	0.3	1
2455	Circuit simulation and physical implementation for a memristor-based colpitts oscillator. AIP Advances, 2017, 7, .	0.6	6
2456	The basic l–V characteristics of memristor model: simulation and analysis. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	16
2457	Synaptic plasticity and oscillation at zinc tin oxide/silver oxide interfaces. Journal of Applied Physics, 2017, 121, .	1.1	6
2458	Continuous and Differentiable Approximation of a TaO Memristor Model for Robust Numerical Simulations. Springer Proceedings in Physics, 2017, , 61-69.	0.1	6
2459	Modeling Physarum space exploration using memristors. Journal Physics D: Applied Physics, 2017, 50, 174004.	1.3	18
2460	Atomic crystals resistive switching memory. Chinese Physics B, 2017, 26, 033201.	0.7	1
2461	A Compact Memristor-CMOS Hybrid Look-Up-Table Design and Potential Application in FPGA. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2017, 36, 2144-2148.	1.9	28
2462	Memristive behavior of the SnO2/TiO2 interface deposited by sol–gel. Applied Surface Science, 2017, 410, 278-281.	3.1	29
2463	Nanoscale Tipping Bucket Effect in a Quantum Dot Transistor-Based Counter. Nano Letters, 2017, 17, 2273-2279.	4.5	5
2464	Arduino-controlled HP memristor emulator for memristor circuit applications. The Integration VLSI Journal, 2017, 58, 438-445.	1.3	18
2465	Exponential Stability of Periodic Solution for Impulsive Memristor-Based Cohen–Grossberg Neural Networks with Mixed Delays. International Journal of Pattern Recognition and Artificial Intelligence, 2017, 31, 1750022.	0.7	23

#	Article	IF	CITATIONS
2466	Dynamics of Hamiltonian Systems and Memristor Circuits. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1730005.	0.7	15
2467	An image encryption algorithm based on the memristive hyperchaotic system, cellular automata and DNA sequence operations. Signal Processing: Image Communication, 2017, 52, 6-19.	1.8	185
2468	Nonequilibrium response of a voltage gated sodium ion channel and biophysical characterization of dynamic hysteresis. Journal of Theoretical Biology, 2017, 415, 113-124.	0.8	2
2469	Projective synchronization of fractional-order memristive neural networks with switching jumps mismatch. Physica A: Statistical Mechanics and Its Applications, 2017, 471, 402-415.	1.2	41
2470	A 860kHz grounded memristor emulator circuit. AEU - International Journal of Electronics and Communications, 2017, 73, 23-33.	1.7	107
2471	Ultra-low power non-volatile resistive crossbar memory based on pull up resistors. Organic Electronics, 2017, 41, 73-78.	1.4	25
2472	Resistive switching of Pt/TiO <i>_{<}</i> /l>/Pt devices fabricated on flexible Parylene-C substrates. Nanotechnology, 2017, 28, 025303.	1.3	18
2473	Floating memristor emulator with subthreshold region. Analog Integrated Circuits and Signal Processing, 2017, 90, 471-475.	0.9	69
2474	Mimicking Classical Conditioning Based on a Single Flexible Memristor. Advanced Materials, 2017, 29, 1602890.	11.1	119
2475	Bond graph and memristor approach to DNA analysis. Nonlinear Dynamics, 2017, 88, 1051-1057.	2.7	7
2476	Looking Ahead for Resistive Memory Technology: A broad perspective on ReRAM technology for future storage and computing. IEEE Consumer Electronics Magazine, 2017, 6, 94-103.	2.3	31
2477	FPGA implementation of novel fractional-order chaotic systems with two equilibriums and no equilibrium and its adaptive sliding mode synchronization. Nonlinear Dynamics, 2017, 87, 2281-2304.	2.7	134
2478	Memristor based modulo multiplier design for (2nâ^'1) and 2n radix., 2017,,.		1
2479	Memristive stochastic plasticity enables mimicking of neural synchrony: Memristive circuit emulates an optical illusion. Science Advances, 2017, 3, e1700849.	4.7	56
2480	Quasiâ€synchronisation of fractionalâ€order memristorâ€based neural networks with parameter mismatches. IET Control Theory and Applications, 2017, 11, 2317-2327.	1.2	95
2481	Passivity Analysis of Discrete-Time Memristive Neural Networks with Time-Varying Delay. , 2017, , .		2
2482	Memristive behavior in In ₂ Se ₃ asymmetrical hetero-structures. RSC Advances, 2017, 7, 46431-46435.	1.7	13

#	Article	IF	CITATIONS
2484	Memristor Equations: Incomplete Physics and Undefined Passivity/Activity. Fluctuation and Noise Letters, 2017, 16, 1771001.	1.0	15
2485	Approximate Memristive In-memory Computing. Transactions on Embedded Computing Systems, 2017, 16, 1-18.	2.1	18
2486	Chaos and Hopf bifurcation control in a fractional-order memristor-based chaotic system with time delay. European Physical Journal Plus, 2017, 132, 1.	1.2	29
2487	A fast training method for memristor crossbar based multi-layer neural networks. Analog Integrated Circuits and Signal Processing, 2017, 93, 443-454.	0.9	22
2488	High-Performance Single-Active-Layer Memristor Based on an Ultrananocrystalline Oxygen-Deficient TiO _{<i>x</i>} Film. ACS Applied Materials & Interfaces, 2017, 9, 36989-36996.	4.0	22
2489	Resistive memory devices based on a triphenylamine-decorated non-precious cobalt(<scp>ii</scp>) bis-terpyridine complex. Chemical Communications, 2017, 53, 11925-11928.	2.2	30
2490	Effect of write voltage and frequency on the reliability aspects of memristor-based RRAM. International Nano Letters, 2017, 7, 209-216.	2.3	33
2491	Facile fabrication of complex networks of memristive devices. Scientific Reports, 2017, 7, 7955.	1.6	48
2492	Synchronization between neurons coupled by memristor. Chaos, Solitons and Fractals, 2017, 104, 435-442.	2.5	143
2493	A novel true random number generator based on a stochastic diffusive memristor. Nature Communications, 2017, 8, 882.	5.8	287
2495	Instrumentation, electrode choice and challenges in human skin memristor measurement. , 2017, 2017, 1844-1848.		6
2496	Multistability analysis, circuit implementations and application in image encryption of a novel memristive chaotic circuit. Nonlinear Dynamics, 2017, 90, 1607-1625.	2.7	113
2497	Dynamic analysis and circuit implementations of a novel memristive chaotic circuit., 2017,,.		2
2498	Finite-time stability for memristor based uncertain neural networks with time-varying delays- via average dwell time approach. Chinese Journal of Physics, 2017, 55, 1953-1971.	2.0	15
2499	Interfacial interactions and their impact on redox-based resistive switching memories (ReRAMs). Semiconductor Science and Technology, 2017, 32, 093006.	1.0	100
2500	Error Characterization, Mitigation, and Recovery in Flash-Memory-Based Solid-State Drives. Proceedings of the IEEE, 2017, 105, 1666-1704.	16.4	191
2501	Modelling nanoscale objects in order to conduct an empirical research into their properties as part of an engineering system designed. Journal of Physics: Conference Series, 2017, 803, 012091.	0.3	0
2502	Andronov–Hopf bifurcation with and without parameter in a cubic memristor oscillator with a line of equilibria. Chaos, 2017, 27, 081104.	1.0	20

#	Article	IF	CITATIONS
2503	Double quantum dot memristor. Physical Review B, 2017, 96, .	1.1	15
2504	Asymptotical synchronization of memristor-based neural networks with time-varying delays via adaptive control., 2017,,.		1
2505	Effects of annealing on thermochromic properties of W-doped vanadium dioxide thin films deposited by electron beam evaporation. Thin Solid Films, 2017, 644, 52-56.	0.8	26
2506	Research on low pass filter based on Memristor and memcapacitor., 2017,,.		8
2507	Customized binary and multi-level HfO2â^'x-based memristors tuned by oxidation conditions. Scientific Reports, 2017, 7, 10070.	1.6	46
2508	Memristive computing devices and applications. Journal of Electroceramics, 2017, 39, 4-20.	0.8	47
2509	A First Insight to the Thermal Dependence of the DC, Analog and RF Performance of an S/D Spacer Engineered DG-Ambipolar FET. IEEE Transactions on Electron Devices, 2017, 64, 4327-4334.	1.6	12
2510	Pinched Hysteresis Loop Characteristics ofÂaÂFractional-Order HP \$\$mathrm{TiO_2}\$\$ memristor. Communications in Computer and Information Science, 2017, , 705-713.	0.4	5
2511	Fixed-time synchronization of memristor-based BAM neural networks with time-varying discrete delay. Neural Networks, 2017, 96, 47-54.	3.3	83
2512	Scalable cross-point resistive switching memory and mechanism through an understanding of H ₂ O ₂ /glucose sensing using an IrO _x /Al ₂ O ₃ /W structure. Physical Chemistry Chemical Physics, 2017, 19, 25938-25948.	1.3	21
2513	Tuning analog resistive switching and plasticity in bilayer transition metal oxide based memristive synapses. RSC Advances, 2017, 7, 43132-43140.	1.7	25
2514	A hyperjerk memristive system with infinite equilibrium points. AIP Conference Proceedings, 2017, , .	0.3	6
2515	Synchronization stability of memristor-based complex-valued neural networks with time delays. Neural Networks, 2017, 96, 115-127.	3.3	50
2516	Flexible frequency selective passive circuits based on memristor and capacitor. Organic Electronics, 2017, 51, 119-127.	1.4	18
2517	Functional Circuitry on Commercial Fabric via Textile-Compatible Nanoscale Film Coating Process for Fibertronics. Nano Letters, 2017, 17, 6443-6452.	4.5	62
2518	Establishment of Physical and Mathematical Models for Sr0.95Ba0.05TiO3Memristor. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750148.	0.7	22
2519	Electrochemistry of Gala apples: Memristors in vivo. Russian Journal of Electrochemistry, 2017, 53, 1011-1018.	0.3	6
2520	In depth nano spectroscopic analysis on homogeneously switching double barrier memristive devices. Journal of Applied Physics, 2017, 121, 245307.	1.1	14

#	Article	IF	CITATIONS
2521	A generalized model of TiO $\langle sub \rangle \langle i \rangle x \langle i \rangle \langle sub \rangle$ -based memristive devices and its application for image processing. Chinese Physics B, 2017, 26, 090502.	0.7	6
2522	Global dissipativity analysis for memristor-based uncertain neural networks with time delay in the leakage term. International Journal of Control, Automation and Systems, 2017, 15, 2406-2415.	1.6	9
2523	On memristor-based impulsive neural networks with time-delay. , 2017, , .		0
2524	Finite-Time Robust Synchronization of Memrisive Neural Network with Perturbation. Neural Processing Letters, 2018, 47, 509.	2.0	12
2525	Synchronization Control of Coupled Memristor-Based Neural Networks with Mixed Delays and Stochastic Perturbations. Neural Processing Letters, 2018, 47, 679.	2.0	12
2526	Robust adaptive state feedback sliding-mode control of memristor-based Chua's systems with input nonlinearity. Applied Mathematics and Computation, 2017, 314, 142-153.	1.4	21
2527	Synchronization of memristive delayed neural networks via hybrid impulsive control. Neurocomputing, 2017, 267, 615-623.	3.5	22
2528	Memristor-Based High-Speed Memory Cell with Stable Successive Read Operation. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2017, , 1-1.	1.9	9
2529	High-frequency memristive synapses. , 2017, , .		4
2530	Sneak-Path Based Test and Diagnosis for 1R RRAM Crossbar Using Voltage Bias Technique. , 2017, , .		17
2531	Memristorâ€based pseudoâ€random pattern generator using relaxation oscillator. IEEJ Transactions on Electrical and Electronic Engineering, 2017, 12, 963-964.	0.8	6
2532	The Ghost Operator and Its Applications to Reveal the Physical Meaning of Reactive Power for Electrical and Mechanical Systems and Others. IEEE Access, 2017, 5, 13038-13045.	2.6	6
2533	Hard and soft excitation of oscillations in memristor-based oscillators with a line of equilibria. Nonlinear Dynamics, 2017, 89, 2829-2843.	2.7	16
2534	Memristor emulator with tunable characteristic and its experimental results. AEU - International Journal of Electronics and Communications, 2017, 81, 99-104.	1.7	98
2535	Finite-time H <inf>\hat{a}^*</inf> bounded estimation for memristive recurrent neural networks with randomly occurring time-delay and missing measurements., 2017,,.		0
2536	Memristive switching mechanism of vertically aligned carbon nanotubes. Carbon, 2017, 123, 514-524.	5.4	40
2537	Modelling multistability and hysteresis in ESD clamps, memristors and other devices. , 2017, , .		16
2538	Dadda Multiplier designs using memristors. , 2017, , .		4

#	Article	IF	CITATIONS
2539	Tracking control and synchronization of memristor hyper-chaotic system. , 2017, , .		1
2540	Single DVCCTA based high frequency incremental/decremental memristor emulator and its application. AEU - International Journal of Electronics and Communications, 2017, 82, 177-190.	1.7	70
2541	Stability Analysis for Memristive Recurrent Neural Network Under Different External Stimulus. Neural Processing Letters, 2018, 47, 601.	2.0	2
2542	Multiple resistive switching in core–shell ZnO nanowires exhibiting tunable surface states. Journal of Materials Chemistry C, 2017, 5, 10517-10523.	2.7	40
2543	Global exponential stability of stochastic memristor-based complex-valued neural networks with time delays. Nonlinear Dynamics, 2017, 90, 915-934.	2.7	24
2544	Memristor-Based Clock Design and Optimization with In-Situ Tunability. , 2017, , .		1
2545	A Versatile and Accurate Compact Model of Memristor With Equivalent Resistor Topology. IEEE Electron Device Letters, 2017, 38, 1367-1370.	2.2	14
2546	Fully printed memristors from Cu-SiO <inf>2</inf> core-shell nanowire composites. , 2017, , .		0
2548	Memristor Based Chaotic Neural Network with Application in Nonlinear Cryptosystem. Communications in Computer and Information Science, 2017, , 49-60.	0.4	1
2549	Classical and quantum stochastic models of resistive and memristive circuits. Journal of Mathematical Physics, 2017, 58, 073505.	0.5	1
2550	Memristive Behavior Based on Ba-Doped SrTiO ₃ Films. Chinese Physics Letters, 2017, 34, 038502.	1.3	21
2551	Creation and study of memristors based on CuCl <inf>2</inf> ., 2017,,.		0
2552	Emulating a central pattern generator (CPG) using CMOS neuron and memristor-based synapse. , 2017, ,		1
2553	Memristor-based approximate matrix multiplier. Analog Integrated Circuits and Signal Processing, 2017, 93, 363-373.	0.9	8
2554	Memristor emulator circuits using single CBTA. AEU - International Journal of Electronics and Communications, 2017, 82, 109-118.	1.7	76
2555	Extreme multistability analysis of memristor-based chaotic system and its application in image decryption. AIP Advances, 2017, 7, .	0.6	52
2556	Multibit memory operation of metal-oxide bi-layer memristors. Scientific Reports, 2017, 7, 17532.	1.6	228
2557	Magnetic anisotropy in antiferromagnetic hexagonal MnTe. Physical Review B, 2017, 96, .	1.1	49

#	Article	IF	Citations
2558	Piecewise empirical model (PEM) of resistive memory for pulsed analog and neuromorphic applications. Journal of Computational Electronics, 2017, 16, 1144-1153.	1.3	2
2559	Efficient Processing of Deep Neural Networks: A Tutorial and Survey. Proceedings of the IEEE, 2017, 105, 2295-2329.	16.4	2,217
2560	Unipolar resistive switching behavior in sol–gel synthesized FeSrTiO ₃ thin films. RSC Advances, 2017, 7, 54111-54116.	1.7	6
2561	Numerical Study of Multiple Attractors in the Parallel Inductor–Capacitor–Memristor Circuit. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1730036.	0.7	12
2562	Multi-scroll hidden attractors and multi-wing hidden attractors in a 5-dimensional memristive system. Chinese Physics B, 2017, 26, 110502.	0.7	43
2563	Synchronization of Memristor-Based Time-Delayed Neural Networks via Pinning Control. Lecture Notes in Computer Science, 2017, , 699-708.	1.0	0
2564	Synapse-Inspired Variable Conductance in Biomembranes: A Preliminary Study., 2017,,.		0
2565	Memristor interpretations based on constitutive relations. Journal of Semiconductors, 2017, 38, 104005.	2.0	1
2566	Investigations of switching phenomena in Pt/HfO <inf>2</inf> /Ti/Pt memristive devices., 2017,,.		1
2567	A numerical analysis and experimental demonstration of a low degradation conductive bridge resistive memory device. Journal of Applied Physics, 2017, 122, 164502.	1.1	1
2568	Forming-free high-endurance Al/ZnO/Al memristor fabricated by dual ion beam sputtering. Applied Physics Letters, 2017, 110, .	1.5	81
2569	Towards a memristive hardware secure hash function (MemHash)., 2017,,.		8
2570	Rescuing Memristor-based Neuromorphic Design with High Defects. , 2017, , .		158
2571	Extremely parallel memristor crossbar architecture for convolutional neural network implementation., 2017,,.		62
2572	Discontinuity Induced Hopf and Neimark–Sacker Bifurcations in a Memristive Murali–Lakshmanan–Chua Circuit. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1730021.	0.7	19
2573	Exponential stability of complex-valued memristor-based neural networks with time-varying delays. Applied Mathematics and Computation, 2017, 313, 222-234.	1.4	66
2574	Exponential adaptive synchronization of stochastic memristive chaotic recurrent neural networks with time-varying delays. Neurocomputing, 2017, 267, 396-405.	3.5	34
2575	Phased antenna arrays based on nonâ€volatile resistive switches. IET Microwaves, Antennas and Propagation, 2017, 11, 1169-1173.	0.7	9

#	Article	IF	CITATIONS
2576	Formal Design Space Exploration for memristor-based crossbar architecture., 2017,,.		1
2577	STDP-based unsupervised learning of memristive spiking neural network by Morris-Lecar model. , 2017, ,		11
2578	An improved memristor-CMOS XOR logic gate and a novel full adder. , 2017, , .		7
2579	On-chip training of memristor based deep neural networks. , 2017, , .		33
2580	On Discontinuous Piecewise Linear Models for Memristor Oscillators. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1730022.	0.7	15
2581	Experimental Observation of Negative Susceptance in HfO ₂ -Based RRAM Devices. IEEE Electron Device Letters, 2017, 38, 1216-1219.	2.2	10
2582	A Memristive Hyperchaotic Multiscroll Jerk System with Controllable Scroll Numbers. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750091.	0.7	78
2583	Negative voltage modulated multi-level resistive switching by using a Cr/BaTiOx/TiN structure and quantum conductance through evidence of H2O2 sensing mechanism. Scientific Reports, 2017, 7, 4735.	1.6	42
2584	Dual input–output pairs for modeling hysteresis inspired by mem-models. Nonlinear Dynamics, 2017, 88, 2435-2455.	2.7	9
2585	Bifurcation and chaos in time delayed fractional order chaotic memfractor oscillator and its sliding mode synchronization with uncertainties. Chaos, Solitons and Fractals, 2017, 103, 347-356.	2.5	32
2586	Integrated Circuit with Memristor Emulator Array and Neuron Circuits for Biologically Inspired Neuromorphic Pattern Recognition. Journal of Circuits, Systems and Computers, 2017, 26, 1750183.	1.0	12
2587	Memristor-based timing circuit. , 2017, , .		4
2588	A charge-controlled memristor model for image edge detection with a memristive grid., 2017,,.		2
2589	Characterization and modelling of Ag/TiO2/ITO devices exhibiting bipolar memristive properties. , 2017, , .		2
2590	Spin-coated silver nanocomposite resistive switching devices. Microelectronic Engineering, 2017, 168, 27-31.	1.1	35
2591	Exponential stability and periodicity of memristor-based recurrent neural networks with time-varying delays. International Journal of Biomathematics, 2017, 10, 1750027.	1.5	1
2592	A novel memristive Hopfield neural network with application in associative memory. Neurocomputing, 2017, 227, 142-148.	3.5	126
2593	Global attractivity of memristor-based fractional-order neural networks. Neurocomputing, 2017, 227, 64-73.	3. 5	13

#	Article	IF	CITATIONS
2594	Modeling affections with memristor-based associative memory neural networks. Neurocomputing, 2017, 223, 129-137.	3.5	58
2595	Hopf bifurcation and chaos in a fractional order delayed memristor-based chaotic circuit system. Optik, 2017, 130, 189-200.	1.4	50
2596	A new switching control for finite-time synchronization of memristor-based recurrent neural networks. Neural Networks, 2017, 86, 1-9.	3.3	56
2597	Organic Memristor Based Elements for Bio-inspired Computing. Emergence, Complexity and Computation, 2017, , 469-496.	0.2	10
2598	Experiments in Musical Biocomputing: Towards New Kinds of Processors for Audio and Music. Emergence, Complexity and Computation, 2017, , 739-761.	0.2	2
2599	Implementation and study of the nonlinear dynamics of a memristor-based Duffing oscillator. Nonlinear Dynamics, 2017, 87, 37-49.	2.7	69
2600	Memristors in Unconventional Computing: How a Biomimetic Circuit Element Can be Used to Do Bioinspired Computation. Emergence, Complexity and Computation, 2017, , 497-542.	0.2	1
2601	A New Floating Memristance Simulator Circuit Based on Second Generation Current Conveyor. Journal of Circuits, Systems and Computers, 2017, 26, 1750029.	1.0	51
2602	Thirty Seven Things to Do with Live Slime Mould. Emergence, Complexity and Computation, 2017, , 709-738.	0.2	11
2603	Graphical modelling of pinched hysteresis loops of memristors. IET Science, Measurement and Technology, 2017, 11, 86-96.	0.9	O
2604	More Efficient Testing of Metal-Oxide Memristor–Based Memory. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2017, 36, 1018-1029.	1.9	25
2605	Memristors with diffusive dynamics as synaptic emulators for neuromorphic computing. Nature Materials, 2017, 16, 101-108.	13.3	1,655
2606	Finite-Time Stability Analysis for Markovian Jump Memristive Neural Networks With Partly Unknown Transition Probabilities. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 2924-2935.	7.2	89
2607	Memristive Model for Synaptic Circuits. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 767-771.	2.2	103
2608	Finite-time Mittag-Leffler synchronization of fractional-order memristive BAM neural networks with time delays. Neurocomputing, 2017, 219, 431-439.	3.5	134
2609	Input-to-state stability of memristor-based complex-valued neural networks with time delays. Neurocomputing, 2017, 221, 159-167.	3.5	25
2610	Configurable memristive logic block for memristive-based FPGA architectures. The Integration VLSI Journal, 2017, 56, 61-69.	1.3	13
2611	Relaxed exponential passivity criteria for memristor-based neural networks with leakage and time-varying delays. International Journal of Machine Learning and Cybernetics, 2017, 8, 1875-1886.	2.3	3

#	Article	IF	CITATIONS
2612	Memristive pulse coupled neural network with applications in medical image processing. Neurocomputing, 2017, 227, 149-157.	3.5	51
2613	Bipolar resistive switching and conduction mechanism of an Al/ZnO/Al-based memristor. Superlattices and Microstructures, 2017, 101, 172-179.	1.4	50
2614	A class of initials-dependent dynamical systems. Applied Mathematics and Computation, 2017, 298, 65-76.	1.4	99
2615	Hâ^žstate estimation for memristive neural networks with multiple fading measurements. Neurocomputing, 2017, 230, 23-29.	3.5	16
2616	Zinc Oxide Thin Films for Memristive Devices: A Review. Critical Reviews in Solid State and Materials Sciences, 2017, 42, 153-172.	6.8	82
2617	Convergence and Multistability of Nonsymmetric Cellular Neural Networks With Memristors. IEEE Transactions on Cybernetics, 2017, 47, 2970-2983.	6.2	66
2618	On the periodic dynamics of memristor-based neural networks with leakage and time-varying delays. Neurocomputing, 2017, 219, 163-173.	3.5	34
2619	Memristor-based high performance third order quadrature oscillator. , 2017, , .		4
2620	A general overview of memristor devices. , 2017, , .		0
2621	Room temperature 2D memristive transistor with optical short-term plasticity., 2017,,.		4
2622	Chaotic synchronization in coupled neuronal circuits via a memristor., 2017,,.		1
2623	Memristor-based material implication logic design for full adders. , 2017, , .		1
2624	Memristor based XNOR for high speed area efficient 1-bit full adder. , 2017, , .		9
2625	Digital-Analog Hybrid Scheme and Its Application to Chaotic Random Number Generators. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750210.	0.7	6
2626	Write and read circuit for memristor analog resistance switching. , 2017, , .		4
2627	A pulse-based memristor programming circuit. , 2017, , .		7
2628	On the origin of the fading memory effect in ReRAMs. , 2017, , .		4
2629	Characterization, and modeling of memristor devices. , 2017, , .		4

#	ARTICLE	IF	CITATIONS
2630	A novel PID neural network controller based on memristor., 2017,,.		2
2631	Resistive switching effects in nanomaterials based memristors. , 2017, , .		0
2632	A Drift-Tolerant Read/Write Scheme for Multilevel Memristor Memory. IEEE Nanotechnology Magazine, 2017, 16, 1016-1027.	1.1	24
2633	Memristor augmented ReRAM cell for cross-bar memory architecture. , 2017, , .		4
2634	Fractional order chaotic systems: A survey. , 2017, , .		1
2635	Analysis and Synchronization of a Novel Memristor Hyper-Chaotic System., 2017,,.		1
2636	A quantization-aware regularized learning method in multilevel memristor-based neuromorphic computing system. , $2017, , .$		21
2637	Fabrication of fluidic-based memristor sensor for dengue virus detection., 2017,,.		4
2638	Memristive devices for computing: Beyond CMOS and beyond von Neumann., 2017,,.		35
2639	Adaptive synchronization of fractional-order memristor-based neural networks with multiple time-varying delays., 2017,,.		1
2640	On the dynamics of accelerated observers in Special Relativity., 2017,,.		0
2641	Analysis of memristive nonlinear circuits. , 2017, , .		0
2642	New design of a three-terminal memristor emulator., 2017,,.		2
2643	Efficient implementation of adder circuits in memristive crossbar array. , 2017, , .		10
2644	Gap engineering for improved control of memristor nanosensors. , 2017, , .		0
2645	Low power filter design using memristor, meminductor and memcapacitor., 2017,,.		10
2646	Memristor hybrid model for nonlinear analog circuit design. , 2017, , .		2
2647	Dynamical Response of Electrical Activities in Digital Neuron Circuit Driven by Autapse. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750187.	0.7	46

#	Article	IF	CITATIONS
2648	Switching synchronization in one-dimensional memristive networks: An exact solution. Physical Review E, 2017, 96, 062213.	0.8	2
2649	Reservoir computing using dynamic memristors for temporal information processing. Nature Communications, 2017, 8, 2204.	5.8	547
2650	Investigation on the dynamic behaviors of the coupled memcapacitor-based circuits. Chinese Physics B, 2017, 26, 120701.	0.7	5
2651	A Method for Growing Bio-memristors from Slime Mold. Journal of Visualized Experiments, 2017, , .	0.2	2
2652	Filamentary model in resistive switching materials. AIP Conference Proceedings, 2017, , .	0.3	9
2653	Dynamic Analysis of a Physical SBT Memristor-Based Chaotic Circuit. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1730047.	0.7	25
2654	Modeling and Analysis of a Fractional-Order Generalized Memristor-Based Chaotic System and Circuit Implementation. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750199.	0.7	25
2655	Fractional memristor. Applied Physics Letters, 2017, 111, .	1.5	20
2656	Symbolic harmonic distortion analysis of op-amp based memristive amplifiers. , 2017, , .		0
2657	An on-line test strategy and analysis for a 1T1R crossbar memory. , 2017, , .		3
2658	Maximization of Crossbar Array Memory Using Fundamental Memristor Theory. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 1402-1406.	2.2	12
2659	Sliding Mode Control of Fractional-Order Delayed Memristive Chaotic System with Uncertainty and Disturbance. Communications in Theoretical Physics, 2017, 68, 741.	1.1	6
2660	A novel image encryption scheme based on Kepler's third law and random Hadamard transform. Chinese Physics B, 2017, 26, 120504.	0.7	10
2661	Review and simulation of memristors using MATLAB and PSpice. , 2017, , .		1
2662	Exponential stabilisation of stochastic memristive neural networks under intermittent adaptive control. IET Control Theory and Applications, 2017, 11, 2432-2439.	1.2	41
2663	Construction of nonlinear fractional order model for clarithromycin against helicobacter pylori and compared with integer order model., 2017,,.		0
2664	The future of computing â€" Arithmetic circuits implemented with memristors. , 2017, , .		1
2665	On the Modeling of Memristive Material Behavior in the Context of the Finite Element Method. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 445-446.	0.2	0

#	Article	IF	CITATIONS
2666	Multi-level memristive memory with resistive networks. , 2017, , .		8
2667	Bulk-based DC offset calibration for low-power memristor array read-out system. , 2017, , .		0
2668	Modeling of memristor device & analysis of stability issues. , 2017, , .		1
2669	SPICE model for the ramp rate effect in the reset characteristic of memristive devices. , 2017, , .		3
2670	Low power memristor based voltage controlled oscillator for electrical neural stimulation., 2017,,.		5
2671	Coexistence of attractors in the parallel inductor-capacitor-memristor circuit. , 2017, , .		O
2672	Improved condition for ISS of stochastic memristive neural networks with time-varying delays. , 2017, , .		0
2673	An RF memristor model and memristive single-pole double-throw switches. , 2017, , .		10
2674	Wave digital emulation of spike-timing dependent plasticity. , 2017, , .		6
2675	A consistent modeling of passive memcapacitive systems. , 2017, , .		3
2676	A study on the effect of square and triangle signals phase on memristance and its applications. , 2017, , .		2
2677	An analysis of the dynamics of SPICE memristor model. , 2017, , .		17
2678	A non-volatile comparator based on 1T1M crossbar arrays using memristor-aided logic. , 2017, , .		0
2679	Wave digital information anticipator. , 2017, , .		4
2680	A mixed-signal approach to memristive neuromorphic system design. , 2017, , .		5
2681	Study of two-memristor circuit model with explicit composition method., 2017,,.		1
2682	4 Transistor and 2 memristor based memory. , 2017, , .		5
2683	A practical hafnium-oxide memristor model suitable for circuit design and simulation. , 2017, , .		42

#	Article	IF	CITATIONS
2684	A current-feedback method for programming memristor array in bidirectional associative memory. , 2017, , .		6
2685	Programmable delay element using memristor and case study in delay lock loop. , 2017, , .		2
2686	The design of memristor based high pass filter circuit. , 2017, , .		4
2687	Learning method for ex-situ training of memristor crossbar based multi-layer neural network. , 2017, ,		3
2688	Prototyping memristors in digital system with an FPGA-based testing environment. , 2017, , .		3
2689	Memristive two-ports., 2017, , .		6
2690	An analytical delay model for ReRAM memory cells. , 2017, , .		2
2691	Pulse controlled memristor-based delay element. , 2017, , .		7
2692	Parasitic effects on memristive logic architecture., 2017,,.		2
2693	TiO <inf>2</inf> memristor model-based chaotic oscillator., 2017,,.		1
2694	Memristor crossbar based implementation of a multilayer perceptron., 2017,,.		9
2695	Advent of memristor based synapses on neuromorphic engineering. , 2017, , .		1
2696	Dynamical resistive switching of a generic memristor model: Analysis and simulation. , 2017, , .		3
2697	Survey of progress in deep neural networks for resource-constrained applications. , 2017, , .		5
2698	Statistical analysis on variation tolerance of time-shared Twin Memristor Crossbar for pattern matching. , 2017, , .		0
2699	Study of two-memcapacitor circuit model with semi-explicit ODE solver. , 2017, , .		1
2700	A closed-loop design to enhance weight stability of memristor based neural network chips. , 2017, , .		27
2701	Adaptive synchronization for memrisitive neural networks., 2017,,.		O

#	Article	IF	CITATIONS
2702	Finite-time synchronization of memristive hyperchaotic systems. , 2017, , .		0
2703	Lagrange stability of complex-valued memristor-based neural networks. , 2017, , .		1
2704	New synchronization criteria for memristor-based recurrent neural networks with mixed delays. , 2017, , .		2
2705	Global exponential stability and synchronization of memristive neural networks including both time-varying and continuously distributed delays. , 2017, , .		1
2706	Probing the Critical Region of Conductive Filament in Nanoscale HfO ₂ Resistive-Switching Device by Random Telegraph Signals. IEEE Transactions on Electron Devices, 2017, 64, 4099-4105.	1.6	11
2707	A novel secure conference communication in IoT devices based on memristors., 2017,,.		3
2708	In-Memory Execution of Compute Kernels Using Flow-Based Memristive Crossbar Computing., 2017,,.		5
2709	Mathematical Modelling and Analysis of Memristors with and without its Temperature Effects. International Journal of Electronics and Telecommunications, 2017, 63, 181-186.	0.6	6
2710	Towards memristor-based reconfigurable FFT architecture., 2017,,.		2
2711	Port hamiltonian formulation of a memristive switch circuit represented in bond graph., 2017,,.		1
2712	Area-efficient read/write circuit for spintronic memristor based memories. , 2017, , .		4
2713	A compact 8-bit adder design using in-memory memristive computing: Towards solving the Feynman Grand Prize challenge. , 2017, , .		4
2714	The Impact of Soft Errors on Memristor-Based Memory. , 2017, , .		2
2715	CIM a current inverting metamutator and its application to universal filters among others. , 2017, , .		3
2716	Fully passive conductive-bridging solid state RF switch. , 2017, , .		0
2717	Global finite-time stabilization of memristor-based neural networks with time-varying delays via hybrid control., 2017,,.		0
2718	Euler-Lagrange Equations of Networks with Higher-Order Elements. Radioengineering, 2017, 26, 397-405.	0.3	9
2719	Global Mean Square Exponential Stability of Memristor-Based Stochastic Neural Networks with Time-Varying Delays., 2017,, 270-279.		0

#	Article	IF	CITATIONS
2720	Coupling Resistive Switching Devices with Neurons: State of the Art and Perspectives. Frontiers in Neuroscience, 2017, 11, 70.	1.4	46
2721	Double-Barrier Memristive Devices for Unsupervised Learning and Pattern Recognition. Frontiers in Neuroscience, 2017, 11, 91.	1.4	42
2722	Parameter-Independent Dynamical Behaviors in Memristor-Based Wien-Bridge Oscillator. Mathematical Problems in Engineering, 2017, 2017, 1-13.	0.6	8
2723	A Novel Floating Memristor Emulator with Minimal Components. Active and Passive Electronic Components, 2017, 2017, 1-12.	0.3	17
2724	Characteristic Analysis of Fractional-Order 4D Hyperchaotic Memristive Circuit. Mathematical Problems in Engineering, 2017, 2017, 1-13.	0.6	21
2725	Stabilization and Synchronization of Memristive Chaotic Circuits by Impulsive Control. Complexity, 2017, 2017, 1-10.	0.9	13
2726	Characterization of memristor based on non-linear ion drift model., 2017,,.		2
2727	Coexisting Oscillation and Extreme Multistability for a Memcapacitor-Based Circuit. Mathematical Problems in Engineering, 2017, 2017, 1-13.	0.6	18
2728	Electro-magnetic interpretation of four-element torus. Journal of Semiconductors, 2017, 38, 114008.	2.0	0
2729	Adaptive Modified Function Projective Lag Synchronization of Memristor-Based Five-Order Chaotic Circuit Systems. Advances in Mathematical Physics, 2017, 2017, 1-8.	0.4	2
2730	Fractional Order Memristor No Equilibrium Chaotic System with Its Adaptive Sliding Mode Synchronization and Genetically Optimized Fractional Order PID Synchronization. Complexity, 2017, 2017, 1-19.	0.9	67
2731	Simulating neuromorphic reservoir computing: Abstract feed-forward hardware models. , 2017, , .		0
2732	Voltage-Current Differential Equations of Extended Memristors with One-Dimensional State., 2017, , .		1
2733	Digitally Emulated Electronic Devices. , 2017, , .		0
2734	Memristor crossbar based winner take all circuit design for self-organization., 2017,,.		3
2735	Impact of increasing number of neurons on performance of neuromorphic architecture. , 2017, , .		1
2736	Intermittent control of memristor-based recurrent neural networks with time-varying delays. , 2017, ,		0
2737	In-memory flow-based stochastic computing on memristor crossbars using bit-vector stochastic streams. , 2017, , .		6

#	Article	IF	CITATIONS
2738	Habituation/Fatigue behavior of a synapse memristor based on IGZO–HfO2 thin film. Scientific Reports, 2017, 7, 9354.	1.6	42
2739	Global exponential synchronization of complex dynamical networks with memristive neural networks nodes., 2017,,.		0
2740	An efficient electronic measurement interface for memristive biosensors. , 2017, , .		2
2741	A synchronized axon hillock neuron for memristive neuromorphic systems. , 2017, , .		3
2742	Memristor based 8-bit iterative full adder with space-time notation and sneak-path protection. , 2017, , .		5
2743	Live demonstration: MNET: A visually rich memristor crossbar simulator. , 2017, , .		0
2744	A CMOS synapse design implementing tunable asymmetric spike timing-dependent plasticity. , 2017, , .		6
2745	A new memristor and memcapacitor-based high pass filter. , 2017, , .		3
2746	A Nonlinear Drift Memristor Model with a Modified Biolek Window Function and Activation Threshold. Electronics (Switzerland), 2017, 6, 77.	1.8	28
2747	Characteristics for series and parallel circuits of flux-controlled memristors. IEICE Electronics Express, 2017, 14, 20170230-20170230.	0.3	3
2748	Filamentary model of bipolar resistive switching in capacitor-like memristive nanostructures on the basis of yttria-stabilised zirconia. International Journal of Nanotechnology, 2017, 14, 604.	0.1	24
2749	Effect of input noise on phase coherence in a lattice of memristors acting as a voltage divider. Journal of Engineering, 2017, 2017, 51-56.	0.6	2
2750	Acousto-Mechanical Instrumentation of Multiscale Hysteretic Memristive Properties of the Skin with Nonlinear Time Reversal Imaging. , 2017, , .		0
2751	Wavelet analysis of a memristor emulated model proposed for compact fluorescent lamp operated systems. Electric Power Systems Research, 2018, 160, 56-62.	2.1	1
2752	Passivity analysis of memristor-based impulsive inertial neural networks with time-varying delays. ISA Transactions, 2018, 74, 88-98.	3.1	43
2753	A high-precision time-domain RRAM state control approach. Microelectronics Journal, 2018, 74, 94-105.	1.1	8
2754	Multi-terminal memtransistors from polycrystalline monolayer molybdenum disulfide. Nature, 2018, 554, 500-504.	13.7	705
2755	MemSens: Memristor-Based Radiation Sensor. IEEE Sensors Journal, 2018, 18, 3198-3205.	2.4	41

#	Article	IF	CITATIONS
2756	Autonomous models of self-crossing pinched hystereses for mem-elements. Nonlinear Dynamics, 2018, 92, 1975-1983.	2.7	6
2757	Unveiling the Fundamental Role of Temperature in RRAM Switching Mechanism by Multiscale Simulations. ACS Applied Materials & Samp; Interfaces, 2018, 10, 7512-7519.	4.0	15
2758	Spear and Shield: Evolution of Integrated Circuit Camouflaging. Journal of Computer Science and Technology, 2018, 33, 42-57.	0.9	4
2759	Stateful Logic Operations Implemented With Graphite Resistive Switching Memory. IEEE Electron Device Letters, 2018, 39, 607-609.	2.2	12
2760	Reachable Set Estimation for a Class of Memristor-Based Neural Networks With Time-Varying Delays. IEEE Access, 2018, 6, 937-943.	2.6	5
2761	Viologenâ€Hypercrosslinked Ionic Porous Polymer Films as Active Layers for Electronic and Energy Storage Devices. Advanced Materials Interfaces, 2018, 5, 1701679.	1.9	27
2762	The rate limiting process and its activation energy in the forming process of a Cu/Ta2O5/Pt gapless-type atomic switch. Japanese Journal of Applied Physics, 2018, 57, 035202.	0.8	3
2763	Numerical analysis of a polysilicon-based resistive memory device. Journal of Computational Electronics, 2018, 17, 766-773.	1.3	0
2764	Dynamics analysis of Wien-bridge hyperchaotic memristive circuit system. Nonlinear Dynamics, 2018, 92, 923-933.	2.7	67
2765	Performance comparison of hybrid resistive switching devices based on solution-processable nanocomposites. Applied Surface Science, 2018, 443, 475-483.	3.1	13
2766	Macrocyclic triphenylamine-based push–pull type polymer memristive material: synthesis and characterization. Journal of Materials Chemistry C, 2018, 6, 4023-4029.	2.7	18
2767	Modeling of Mean Barrier Height Levying Various Image Forces of Metal–Insulator–Metal Structure to Enhance the Performance of Conductive Filament Based Memristor Model. IEEE Nanotechnology Magazine, 2018, 17, 268-275.	1.1	23
2768	Incremental Design of Simplex Basis Function Model for Dynamic System Identification. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 4758-4768.	7.2	6
2769	Mechanistic Analysis of Oxygen Vacancy-Driven Conductive Filament Formation in Resistive Random Access Memory Metal/NiO/Metal Structures. ACS Applied Materials & Samp; Interfaces, 2018, 10, 9802-9816.	4.0	29
2770	Infinite Number of Hidden Attractors in Memristor-Based Autonomous Duffing Oscillator. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1850013.	0.7	37
2771	Photonic Potentiation and Electric Habituation in Ultrathin Memristive Synapses Based on Monolayer MoS ₂ . Small, 2018, 14, e1800079.	5. 2	224
2772	Adapting Computer Arithmetic Structures to Sustainable Supercomputing in Low-Power, Majority-Logic Nanotechnologies. IEEE Transactions on Sustainable Computing, 2018, 3, 262-273.	2.2	16
2773	Exponential synchronization of memristive neural networks with time delays. Neurocomputing, 2018, 297, 1-7.	3.5	14

#	Article	IF	CITATIONS
2774	Dynamical analysis and circuit implementation of a DC/DC single-stage boost converter with memristance load. Nonlinear Dynamics, 2018, 93, 1741-1755.	2.7	16
2775	Stability of memristor neural networks with delays operating in the flux-charge domain. Journal of the Franklin Institute, 2018, 355, 5135-5162.	1.9	21
2776	Bipolar resistive switching and memristive properties of hydrothermally synthesized TiO2 nanorod array: Effect of growth temperature. Materials and Design, 2018, 151, 37-47.	3.3	56
2777	Chimera states in neuronal networks with time delay and electromagnetic induction. Nonlinear Dynamics, 2018, 93, 1695-1704.	2.7	25
2778	Efficient sensing approaches for high-density memristor sensor array. Journal of Computational Electronics, 2018, 17, 1285-1296.	1.3	22
2779	Excitatory and inhibitory actions of a memristor bridge synapse. Science China Information Sciences, 2018, 61, 1.	2.7	7
2780	Difference equations of a memristor higher order hyperchaotic oscillator. African Journal of Science, Technology, Innovation and Development, 2018, 10, 279-285.	0.8	9
2781	Analysis of Ti valence states in resistive switching regions of a rutile TiO _{2â^'} <i>_x </i> four-terminal memristive device. Japanese Journal of Applied Physics, 2018, 57, 06KB02.	0.8	9
2782	A versatile window function for linear ion drift memristor model $\hat{a}\in$ A new approach. AEU - International Journal of Electronics and Communications, 2018, 90, 130-139.	1.7	20
2783	Anti-synchronization of complex-valued memristor-based delayed neural networks. Neural Networks, 2018, 105, 1-13.	3.3	35
2784	Synchronization and anti-synchronization of a fractional order delayed memristor-based chaotic system using active control. Modern Physics Letters B, 2018, 32, 1850142.	1.0	13
2785	Passivity and Passification of Fuzzy Memristive Inertial Neural Networks on Time Scales. IEEE Transactions on Fuzzy Systems, 2018, 26, 3342-3355.	6.5	69
2786	The boundary focus–saddle bifurcation in planar piecewise linear systems. Application to the analysis of memristor oscillators. Nonlinear Analysis: Real World Applications, 2018, 43, 495-514.	0.9	19
2787	Mixed-mode oscillations in memristor emulator based Liénard system. AIP Conference Proceedings, 2018, , .	0.3	4
2788	<i>H</i> _{â^ž} control of memristive neural networks with aperiodic sampling and actuator saturation. International Journal of Robust and Nonlinear Control, 2018, 28, 3092-3111.	2.1	17
2789	Numerical Simulation Research of Fracmemristor Circuit Based on HP Memristor. Journal of Circuits, Systems and Computers, 2018, 27, 1850227.	1.0	3
2790	General memristor with applications in multilayer neural networks. Neural Networks, 2018, 103, 142-149.	3.3	83
2791	Free Binary Decision Diagram-Based Synthesis of Compact Crossbars for In-Memory Computing. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 622-626.	2.2	20

#	Article	IF	CITATIONS
2792	Carrier transport mechanism and bipolar resistive switching behavior of a nano-scale thin film TiO2 memristor. Ceramics International, 2018, 44, 11417-11423.	2.3	50
2793	Study of Amplitude Control and Dynamical Behaviors of a Memristive Band Pass Filter Circuit. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 637-641.	2.2	16
2794	Predictive Models of Nanodevices. IEEE Nanotechnology Magazine, 2018, 17, 906-913.	1.1	9
2795	Coexisting bifurcations in a memristive hyperchaotic oscillator. AEU - International Journal of Electronics and Communications, 2018, 90, 110-122.	1.7	63
2796	A low-computation-complexity, energy-efficient, and high-performance linear program solver based on primal–dual interior point method using memristor crossbars. Nano Communication Networks, 2018, 18, 62-71.	1.6	4
2797	Complex Dynamics in Arrays of Memristor Oscillators via the Flux–Charge Method. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 1040-1050.	3.5	27
2798	Analog Circuit Implementation of Fractional-Order Memristor: Arbitrary-Order Lattice Scaling Fracmemristor. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 2903-2916.	3.5	52
2799	NV-TCAM: Alternative designs with NVM devices. The Integration VLSI Journal, 2018, 62, 114-122.	1.3	3
2800	PHAX: Physical Characteristics Aware <italic>Ex-Situ</italic> Training Framework for Inverter-Based Memristive Neuromorphic Circuits. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2018, 37, 1602-1613.	1.9	20
2801	Logic Synthesis for RRAM-Based In-Memory Computing. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2018, 37, 1422-1435.	1.9	37
2802	A Lumped RF Model for Nanoscale Memristive Devices and Nonvolatile Single-Pole Double-Throw Switches. IEEE Nanotechnology Magazine, 2018, 17, 873-883.	1.1	13
2803	Novel discontinuous control for exponential synchronization of memristive recurrent neural networks with heterogeneous time-varying delays. Journal of the Franklin Institute, 2018, 355, 2826-2848.	1.9	28
2804	Memristor-based circuit implementation of pulse-coupled neural network with dynamical threshold generators. Neurocomputing, 2018, 284, 10-16.	3.5	70
2805	Exponential synchronization of stochastic time-delayed memristor-based neural networks via distributed impulsive control. Neurocomputing, 2018, 286, 41-50.	3.5	33
2806	<pre><mml:math altimg="si1.gif" display="inline" id="mml9" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>O</mml:mi><mml:mrow><mml:mo>(</mml:mo><mml:msup><mml:mrow><mml:mi>t</mml:mi></mml:mrow></mml:msup></mml:mrow></mml:math></pre> and Mittag-Leffler synchronization for the fractional-order meristive neural networks with delays	< ≱na ml:mi>	- գ/ ց ոml:mroւ
2807	and discontinuous neuron activations. Neural Networks, 2018, 100, 10-24. An Ultra Low-Power Memristive Neuromorphic Circuit for Internet of Things Smart Sensors. IEEE Internet of Things Journal, 2018, 5, 1011-1022.	5.5	32
2808	Mimicking Synaptic Plasticity and Neural Network Using Memtranstors. Advanced Materials, 2018, 30, e1706717.	11.1	66
2809	Memristive Mixed-Signal Neuromorphic Systems: Energy-Efficient Learning at the Circuit-Level. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2018, 8, 125-136.	2.7	38

#	Article	IF	CITATIONS
2810	A Scalable In-Memory Logic Synthesis Approach Using Memristor Crossbar. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 355-366.	2.1	61
2811	Transcritical Bifurcation without Parameters in Memristive Circuits. SIAM Journal on Applied Mathematics, 2018, 78, 395-417.	0.8	12
2812	Periodic Dynamics for Memristor-based Bidirectional Associative Memory Neural Networks with Leakage Delays and Time-varying Delays. International Journal of Control, Automation and Systems, 2018, 16, 535-549.	1.6	22
2813	Devices layer up for stability. Nature Electronics, 2018, 1, 98-99.	13.1	1
2814	A Data-Driven Verilog-A ReRAM Model. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2018, 37, 3151-3162.	1.9	73
2815	Experimental Study of Artificial Neural Networks Using a Digital Memristor Simulator. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 5098-5110.	7.2	48
2816	Unipolar photonic memristive-like nonlinear switching in split-ring resonator based metamaterials. Current Applied Physics, 2018, 18, 447-451.	1.1	0
2817	Robust memristors based on layered two-dimensional materials. Nature Electronics, 2018, 1, 130-136.	13.1	539
2818	Robust synchronization of memristive neural networks with strong mismatch characteristics via pinning control. Neurocomputing, 2018, 289, 144-154.	3.5	24
2819	Delay-dependent dynamical analysis of complex-valued memristive neural networks: Continuous-time and discrete-time cases. Neural Networks, 2018, 101, 33-46.	3.3	32
2820	Memristive switching behaviour in In 2 Te 5 asymmetrical heteroâ€structures. Electronics Letters, 2018, 54, 169-171.	0.5	4
2821	A Memristor-Based Optimization Framework for Artificial Intelligence Applications. IEEE Circuits and Systems Magazine, 2018, 18, 29-44.	2.6	42
2822	A 2M1M Crossbar Architecture: Memory. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 2608-2618.	2.1	15
2823	Resistance Switching and Memristive Hysteresis in Visible-Light-Activated Adsorbed ZnO Thin Films. Scientific Reports, 2018, 8, 2184.	1.6	30
2824	Efficient Mapping of Boolean Functions to Memristor Crossbar Using MAGIC NOR Gates. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 2466-2476.	3. 5	40
2825	Multisynchronization of Interconnected Memristor-Based Impulsive Neural Networks With Fuzzy Hybrid Control. IEEE Transactions on Fuzzy Systems, 2018, 26, 3069-3084.	6.5	25
2826	Coexisting multiple attractors and riddled basins of a memristive system. Chaos, 2018, 28, 013125.	1.0	81
2827	TIMEâ€"Tunable Inductors Using MEmristors. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 1505-1515.	3.5	18

#	Article	IF	CITATIONS
2828	Configurable Logic Operations Using Hybrid CRS-CMOS Cells. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 2641-2647.	2.1	2
2829	Polypyridyl chromium(<scp>iii</scp>) complexes for non-volatile memory application: impact of the coordination sphere on memory device performance. Journal of Materials Chemistry C, 2018, 6, 1445-1450.	2.7	17
2830	Event-Triggered \$H_infty\$ State Estimation for Delayed Stochastic Memristive Neural Networks With Missing Measurements: The Discrete Time Case. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 3726-3737.	7.2	102
2831	Design rules for carbazole derivatized <i>n</i> -alkyl methacrylate polymeric memristors. Journal of Materials Chemistry C, 2018, 6, 2533-2545.	2.7	9
2832	Extended robust global exponential stability for uncertain switched memristor-based neural networks with time-varying delays. Applied Mathematics and Computation, 2018, 325, 271-290.	1.4	32
2833	Investigation of resistance switching in SiO _{<i>x</i>} RRAM cells using a 3D multi-scale kinetic Monte Carlo simulator. Journal of Physics Condensed Matter, 2018, 30, 084005.	0.7	23
2834	Parasitic Effect Analysis in Memristor-Array-Based Neuromorphic Systems. IEEE Nanotechnology Magazine, 2018, 17, 184-193.	1.1	76
2835	New Algebraic Criteria for Global Exponential Periodicity and Stability of Memristive Neural Networks with Variable Delays. Neural Processing Letters, 2018, 48, 1749-1766.	2.0	2
2836	Memristors fire away. Nature Electronics, 2018, 1, 100-101.	13.1	12
2837	Hyperchaotic Memcapacitor Oscillator with Infinite Equilibria and Coexisting Attractors. Circuits, Systems, and Signal Processing, 2018, 37, 3702-3724.	1.2	50
2838	Exponential Stabilization of Timeâ€varying Delayed Complexâ€valued Memristorâ€based Neural Networks Via Impulsive Control. Asian Journal of Control, 2018, 20, 2290-2301.	1.9	13
2839	Supervised neural networks with memristor binary synapses. International Journal of Circuit Theory and Applications, 2018, 46, 221-233.	1.3	28
2840	DIDACTIC: A Data-Intelligent Digital-to-Analog Converter with a Trainable Integrated Circuit using Memristors. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2018, 8, 146-158.	2.7	18
2841	Probing the Mechanism for Bipolar Resistive Switching in Annealed Graphene Oxide Thin Films. ACS Applied Materials & Samp; Interfaces, 2018, 10, 6521-6530.	4.0	23
2842	Surface-screening mechanisms in ferroelectric thin films and their effect on polarization dynamics and domain structures. Reports on Progress in Physics, 2018, 81, 036502.	8.1	129
2843	In Situ Electrical Properties' Investigation and Nanofabrication of Ag/Sb ₂ Te ₃ Assembled Multilayers' Film. Advanced Materials Interfaces, 2018, 5, 1701210.	1.9	6
2844	pth moment exponential stability of stochastic memristor-based bidirectional associative memory (BAM) neural networks with time delays. Neural Networks, 2018, 98, 192-202.	3.3	22
2845	Printing an ITO-free flexible poly (4-vinylphenol) resistive switching device. Physica B: Condensed Matter, 2018, 531, 223-229.	1.3	20

#	Article	IF	CITATIONS
2846	Rare-earth nickelates < i>RNiO ₃ : thin films and heterostructures. Reports on Progress in Physics, 2018, 81, 046501.	8.1	291
2847	Estimating dynamic power consumption for memristor-based CiM architecture. Microelectronics Reliability, 2018, 80, 241-248.	0.9	8
2848	Multiple $\hat{l}^{1}\!\!/\!\!4$ -stability analysis for memristor-based complex-valued neural networks with nonmonotonic piecewise nonlinear activation functions and unbounded time-varying delays. Neurocomputing, 2018, 275, 2681-2701.	3.5	25
2849	FPGA implementation of fractional-order discrete memristor chaotic system and its commensurate and incommensurate synchronisations. Pramana - Journal of Physics, 2018, 90, 1.	0.9	28
2850	Threshold Switching of Ag or Cu in Dielectrics: Materials, Mechanism, and Applications. Advanced Functional Materials, 2018, 28, 1704862.	7.8	239
2851	Exponential input-to-state stability for complex-valued memristor-based BAM neural networks with multiple time-varying delays. Neurocomputing, 2018, 275, 2041-2054.	3.5	36
2852	Memristor-CNTFET based ternary logic gates. Microelectronics Journal, 2018, 72, 74-85.	1.1	48
2853	<pre><mml:math altimg="si11.gif" display="inline" id="mmil11" overflow="scroll" xmins:mml="http://www.w3.org/1998/Math/Math/ML"><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mi>â^ž</mml:mi></mml:mrow></mml:msub></mml:math></pre>	n l:ໝ i3 <td>nlssrow></td>	nl ss row>
2855	Nociceptive Memristor. Advanced Materials, 2018, 30, 1704320.	11.1	116
2856	Synchronization of Multi-links Memristor-Based Switching Networks Under Uniform Random Attacks. Neural Processing Letters, 2018, 48, 1431-1458.	2.0	7
2857	Fractional-order simplest memristor-based chaotic circuit with new derivative. European Physical Journal Plus, 2018, 133, 1.	1,2	98
2858	SRAM Design Using Memristor and Self-controllable Voltage (SVL) Technique. Lecture Notes on Data Engineering and Communications Technologies, 2018, , 29-39.	0.5	4
2859	Modeling of Memristive Devices for Neuromorphic Application. Lecture Notes in Networks and Systems, 2018, , 175-202.	0.5	1
2860	Lag synchronization for fractional-order memristive neural networks with time delay via switching jumps mismatch. Journal of the Franklin Institute, 2018, 355, 1217-1240.	1.9	49
2861	State estimation for complex-valued memristive neural networks with time-varying delays. Advances in Difference Equations, 2018, 2018, .	3.5	11
2862	Various Attractors, Coexisting Attractors and Antimonotonicity in a Simple Fourth-Order Memristive Twin-T Oscillator. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1850050.	0.7	89
2863	Memristor augmented approximate adders and subtractors for image processing applications: An approach. AEU - International Journal of Electronics and Communications, 2018, 91, 91-102.	1.7	28
2864	Improved quasi-synchronization criteria for delayed fractional-order memristor-based neural networks via linear feedback control. Neurocomputing, 2018, 306, 68-79.	3.5	41

#	Article	IF	CITATIONS
2865	Photo-Electrosensitive Memristor Using Oxygen Doping in HgTe Nanocrystal Films. ACS Applied Materials & Samp; Interfaces, 2018, 10, 18927-18934.	4.0	12
2866	Finite-Time Stabilizability and Instabilizability for Complex-Valued Memristive Neural Networks With Time Delays. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 2371-2382.	5.9	74
2867	Flux-Charge Description of Circuits With Non-Volatile Switching Memristor Devices. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 642-646.	2.2	15
2868	Synchronization analysis for fractional order memristive Cohen–Grossberg neural networks with state feedback and impulsive control. Physica A: Statistical Mechanics and Its Applications, 2018, 506, 644-660.	1.2	34
2869	Cyclic locking and memristor-based obfuscation against CycSAT and inside foundry attacks. , 2018, , .		31
2870	A Voltage–Time Model for Memristive Devices. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 1452-1460.	2.1	6
2871	Logic synthesis and defect tolerance for memristive crossbar arrays. , 2018, , .		6
2872	Memristive devices for computation-in-memory. , 2018, , .		29
2873	Stochastic exponential synchronization of memristive neural networks with time-varying delays via quantized control. Neural Networks, 2018, 104, 93-103.	3.3	49
2874	Memristors for Secret Sharing-Based Lightweight Authentication. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 2671-2683.	2.1	6
2875	A Memristive Chaotic Oscillator With Increasing Amplitude and Frequency. IEEE Access, 2018, 6, 12945-12950.	2.6	92
2876	Learning in Memristor Crossbar-Based Spiking Neural Networks Through Modulation of Weight-Dependent Spike-Timing-Dependent Plasticity. IEEE Nanotechnology Magazine, 2018, 17, 520-532.	1.1	47
2877	On Synthesizing Memristor-Based Logic Circuits With Minimal Operational Pulses. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 2842-2852.	2.1	22
2878	Floating incremental/decremental flux-controlled memristor emulator circuit based on single VDTA. Analog Integrated Circuits and Signal Processing, 2018, 96, 417-433.	0.9	64
2879	A memristor-based long short term memory circuit. Analog Integrated Circuits and Signal Processing, 2018, 95, 467-472.	0.9	59
2880	Maximizing the Number of Threshold Logic Functions Using Resistive Memory. IEEE Nanotechnology Magazine, 2018, 17, 897-905.	1.1	5
2881	Recent progress on fabrication of memristor and transistor-based neuromorphic devices for high signal processing speed with low power consumption. Japanese Journal of Applied Physics, 2018, 57, 03EA06.	0.8	36
2882	Finite-time synchronization of inertial memristive neural networks with time delay via delay-dependent control. Neurocomputing, 2018, 293, 100-107.	3.5	91

#	Article	IF	CITATIONS
2883	Global exponential synchronization of inertial memristive neural networks with time-varying delay via nonlinear controller. Neural Networks, 2018, 102, 138-148.	3.3	62
2884	Low-Power, Adaptive Neuromorphic Systems: Recent Progress and Future Directions. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2018, 8, 6-27.	2.7	78
2885	The Fabrication and MOSFET-Only Circuit Implementation of Semiconductor Memristor. IEEE Transactions on Electron Devices, 2018, 65, 1625-1632.	1.6	61
2886	Nullor-Based Negative-Feedback Memristive Amplifiers: Symbolic-Oriented Modelling and Design. Lecture Notes in Electrical Engineering, 2018, , 329-360.	0.3	0
2887	Memristive Ion Channel-Doped Biomembranes as Synaptic Mimics. ACS Nano, 2018, 12, 4702-4711.	7.3	107
2888	Fixed-Time Synchronization of Memristive Fuzzy BAM Cellular Neural Networks With Time-Varying Delays Based on Feedback Controllers. IEEE Access, 2018, 6, 12085-12102.	2.6	28
2889	Nonlinear dynamics and chaos in a simplified memristor-based fractional-order neural network with discontinuous memductance function. Nonlinear Dynamics, 2018, 93, 611-627.	2.7	115
2890	Memristor based Random Number Generator: Architectures and Evaluation. Procedia Computer Science, 2018, 125, 576-583.	1.2	24
2891	Effect of Ag doping on hydrothermally grown ZnO thin-film electronic synapse device. Bioinspired, Biomimetic and Nanobiomaterials, 2018, 7, 82-89.	0.7	9
2892	Studying the dynamics of memristive synapses in spiking neuromorphic systems. , 2018, , .		2
2893	Fault Modeling and Parallel Testing for 1T1M Memory Array. IEEE Nanotechnology Magazine, 2018, 17, 437-451.	1.1	18
2894	A Novel Memristor-Based Circuit Implementation of Full-Function Pavlov Associative Memory Accorded With Biological Feature. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 2210-2220.	3.5	65
2895	A Collective Study on Modeling and Simulation of Resistive Random Access Memory. Nanoscale Research Letters, 2018, 13, 8.	3.1	93
2896	Synchronization of fractional-order memristor-based complex-valued neural networks with uncertain parameters and time delays. Chaos, Solitons and Fractals, 2018, 110, 105-123.	2.5	80
2897	Stabilization of Fuzzy Memristive Neural Networks With Mixed Time Delays. IEEE Transactions on Fuzzy Systems, 2018, 26, 2591-2606.	6.5	65
2898	Electrical activity signal spectrum of the artificial neural net on the base of pulsed neurons and memristors. , $2018, \ldots$		8
2899	A compact model for selectors based on metal doped electrolyte. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	2
2900	Different impulsive effects on synchronization of fractional-order memristive BAM neural networks. Nonlinear Dynamics, 2018, 93, 233-250.	2.7	36

#	Article	IF	CITATIONS
2901	A novel OTA-based circuit model corroborated by an experimental semiconductor memristor. Microelectronic Engineering, 2018, 194, 56-60.	1.1	16
2902	Spatial-Pooling Memristor Crossbar Converting Sensory Information to Sparse Distributed Representation of Cortical Neurons. IEEE Nanotechnology Magazine, 2018, 17, 482-491.	1.1	14
2903	Predicting House Price With a Memristor-Based Artificial Neural Network. IEEE Access, 2018, 6, 16523-16528.	2.6	39
2904	Synchronization criteria for multiple memristor-based neural networks with time delay and inertial term. Science China Technological Sciences, 2018, 61, 612-622.	2.0	23
2905	Adaptive synchronisation of memristor-based neural networks with leakage delays and applications in chaotic masking secure communication. International Journal of Systems Science, 2018, 49, 1300-1315.	3.7	24
2906	Memristive Crossbar Memory Lifetime Evaluation and Reconfiguration Strategies. IEEE Transactions on Emerging Topics in Computing, 2018, 6, 207-218.	3.2	18
2907	Finite-time synchronization of stochastic memristor-based delayed neural networks. Neural Computing and Applications, 2018, 29, 293-301.	3.2	24
2908	Design of memristor-based image convolution calculation in convolutional neural network. Neural Computing and Applications, 2018, 30, 503-508.	3.2	43
2909	Multiple Scale Approach to Dynamics of an LC Circuit With a Charge-Controlled Memristor. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 120-124.	2.2	7
2910	New Conditions for Global Asymptotic Stability of Memristor Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 1822-1834.	7.2	52
2911	A Mapping Methodology of Boolean Logic Circuits on Memristor Crossbar. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2018, 37, 311-323.	1.9	26
2912	Lagrange Stability for T–S Fuzzy Memristive Neural Networks with Time-Varying Delays on Time Scales. IEEE Transactions on Fuzzy Systems, 2018, 26, 1091-1103.	6.5	80
2913	Flux–Charge Memristor Model for Phase Change Memory. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 111-114.	2.2	26
2914	Flexible memristor based neuromorphic system for implementing multi-layer neural network algorithms. International Journal of Parallel, Emergent and Distributed Systems, 2018, 33, 408-429.	0.7	23
2915	Parameters selfâ€ŧuning PID controller circuit with memristors. International Journal of Circuit Theory and Applications, 2018, 46, 138-154.	1.3	11
2916	Finite-Time Stabilization of Delayed Memristive Neural Networks: Discontinuous State-Feedback and Adaptive Control Approach. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 856-868.	7. 2	70
2917	An improved design of RBF neural network control algorithm based on spintronic memristor crossbar array. Neural Computing and Applications, 2018, 30, 1939-1946.	3.2	18
2918	Design and control of a multi-wing dissipative chaotic system. International Journal of Dynamics and Control, 2018, 6, 140-153.	1.5	6

#	Article	IF	CITATIONS
2919	Synchronization for memristive chaotic neural networks using Wirtinger-based multiple integral inequality. International Journal of Machine Learning and Cybernetics, 2018, 9, 1069-1083.	2.3	0
2920	A novel noâ€equilibrium hyperchaotic multiâ€wing system via introducing memristor. International Journal of Circuit Theory and Applications, 2018, 46, 84-98.	1.3	126
2921	Sunpatiens compact hot coral: memristors in flowers. Functional Plant Biology, 2018, 45, 222.	1.1	9
2922	Modeling and simulation of large memristive networks. International Journal of Circuit Theory and Applications, 2018, 46, 50-65.	1.3	27
2923	Exponential Synchronization of Memristive Chaotic Recurrent Neural Networks Via Alternate Output Feedback Control. Asian Journal of Control, 2018, 20, 469-482.	1.9	15
2924	Exponential stabilisation of memristive neural networks under intermittent output feedback control. International Journal of Control, 2018, 91, 1848-1860.	1.2	8
2925	Antimonotonicity, Crisis and Multiple Attractors in a Simple Memristive Circuit. Journal of Circuits, Systems and Computers, 2018, 27, 1850026.	1.0	37
2926	Field-Programmable Crossbar Array (FPCA) for Reconfigurable Computing. IEEE Transactions on Multi-Scale Computing Systems, 2018, 4, 698-710.	2.5	28
2927	Modeling and Analysis of Passive Switching Crossbar Arrays. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 270-282.	3.5	55
2928	A full-function Pavlov associative memory implementation with memristance changing circuit. Neurocomputing, 2018, 272, 513-519.	3.5	45
2929	Harmonic balance method to analyze bifurcations in memristor oscillatory circuits. International Journal of Circuit Theory and Applications, 2018, 46, 66-83.	1.3	20
2930	Spike-timing-dependent plasticity of polyaniline-based memristive element. Microelectronic Engineering, 2018, 185-186, 43-47.	1.1	34
2931	A Compact Scheme of Reading and Writing for Memristor-Based Multivalued Memory. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2018, 37, 1505-1509.	1.9	18
2932	A Combined Optimization-Theoretic and Side- Channel Approach for Attacking Strong Physical Unclonable Functions. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 73-81.	2.1	23
2933	Design Considerations for Memristive Crossbar Physical Unclonable Functions. ACM Journal on Emerging Technologies in Computing Systems, 2018, 14, 1-23.	1.8	12
2934	Introducing quaternion multi-valued neural networks with numerical examples. Information Sciences, 2018, 423, 326-342.	4.0	25
2935	New results for exponential stability of complex-valued memristive neural networks with variable delays. Neurocomputing, 2018, 275, 758-767.	3.5	11
2936	Memristive, memcapacitive and meminductive behavior of single and co-doped cadmium selenide nanocomposites under different doping environment. Journal of Materials Science: Materials in Electronics, 2018, 29, 546-557.	1.1	3

#	Article	IF	CITATIONS
2937	Exploring a Novel Methodology for DC Analysis in Memristive Circuits with Multiple Operating Points. Circuits, Systems, and Signal Processing, 2018, 37, 2227-2249.	1.2	1
2938	Onâ€Demand Reconfiguration of Nanomaterials: When Electronics Meets Ionics. Advanced Materials, 2018, 30, 1702770.	11.1	152
2939	Finite-time stability for memristor based switched neural networks with time-varying delays via average dwell time approach. Neurocomputing, 2018, 275, 1637-1649.	3.5	33
2940	Memristor Device Overview. Analog Circuits and Signal Processing Series, 2018, , 1-29.	0.3	4
2941	A Time-Efficient CMOS-Memristive Programmable Circuit Realizing Logic Functions in Generalized AND–XOR Structures. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 23-36.	2.1	10
2942	A Novel Design for Memristor-Based Multiplexer Via NOT-Material Implication. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2018, 37, 1436-1444.	1.9	12
2943	GST-memristor-based online learning neural networks. Neurocomputing, 2018, 272, 677-682.	3.5	41
2944	Finite-time and fixed-time synchronization analysis of inertial memristive neural networks with time-varying delays. Cognitive Neurodynamics, 2018, 12, 121-134.	2.3	84
2945	Memristor Circuits: Pulse Programming via Invariant Manifolds. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 1327-1339.	3.5	36
2946	The Design and Realization of a Hyper-Chaotic Circuit Based on a Flux-Controlled Memristor with Linear Memductance. Journal of Circuits, Systems and Computers, 2018, 27, 1850038.	1.0	29
2947	Dissipativity and passivity analysis for memristor-based neural networks with leakage and two additive time-varying delays. Neurocomputing, 2018, 275, 747-757.	3.5	24
2948	Memristive Logicâ€inâ€Memory Integrated Circuits for Energyâ€Efficient Flexible Electronics. Advanced Functional Materials, 2018, 28, 1704725.	7.8	57
2949	Case study on memristorâ€based multilevel memories. International Journal of Circuit Theory and Applications, 2018, 46, 99-112.	1.3	11
2950	Emerging NVM. ACM Transactions on Design Automation of Electronic Systems, 2018, 23, 1-32.	1.9	76
2951	Global exponential stability and lag synchronization for delayed memristive fuzzy Cohen–Grossberg BAM neural networks with impulses. Neural Networks, 2018, 98, 122-153.	3.3	83
2952	Neuromorphic computing's yesterday, today, and tomorrow $\hat{a} \in \text{``an evolutional view. The Integration VLSI Journal, 2018, 61, 49-61.}$	1.3	25
2953	Memristorâ€enhanced humanoid robot control system â€" Part II: Circuit theoretic model and performance analysis. International Journal of Circuit Theory and Applications, 2018, 46, 184-220.	1.3	17
2954	Nanoelectronic Materials and Devices. Lecture Notes in Electrical Engineering, 2018, , .	0.3	0

#	Article	IF	CITATIONS
2955	Memristor-Based Approximate Adders for Error Resilient Applications. Lecture Notes in Electrical Engineering, 2018, , 51-59.	0.3	1
2956	Unravelling Resistive Switching Mechanism in ZnO NW Arrays: The Role of the Polycrystalline Base Layer. Journal of Physical Chemistry C, 2018, 122, 866-874.	1.5	34
2957	Adaptive synchronization of memristor-based BAM neural networks with mixed delays. Applied Mathematics and Computation, 2018, 322, 100-110.	1.4	51
2958	Extended dissipative conditions for memristive neural networks with multiple time delays. Applied Mathematics and Computation, 2018, 323, 145-163.	1.4	42
2959	Suppression of anomalous synchronization and nonstationary behavior of neural network under small-world topology. Physica A: Statistical Mechanics and Its Applications, 2018, 497, 126-138.	1.2	15
2960	Design of a memristor based fuzzy processor. AEU - International Journal of Electronics and Communications, 2018, 84, 331-341.	1.7	10
2961	Qualitative dynamical analysis of chaotic plasma perturbations model. Communications in Nonlinear Science and Numerical Simulation, 2018, 59, 409-423.	1.7	11
2962	Weak Cell Detection Techniques for Memristor-Based Memories. Lecture Notes in Electrical Engineering, 2018, , 101-110.	0.3	1
2963	Dynamical analysis and FPGA implementation of a chaotic oscillator with fractional-order memristor components. Nonlinear Dynamics, 2018, 91, 1491-1512.	2.7	49
2964	Group 6 transition metal dichalcogenide nanomaterials: synthesis, applications and future perspectives. Nanoscale Horizons, 2018, 3, 90-204.	4.1	309
2965	Memristorâ€enhanced humanoid robot control system – Part I: Theory behind the novel memcomputing paradigm. International Journal of Circuit Theory and Applications, 2018, 46, 155-183.	1.3	20
2966	Finite-time stability and synchronization of memristor-based fractional-order fuzzy cellular neural networks. Communications in Nonlinear Science and Numerical Simulation, 2018, 59, 272-291.	1.7	122
2967	New results on passivity analysis of memristive neural networks with time-varying delays and reaction–diffusion term. Neurocomputing, 2018, 275, 2080-2092.	3.5	19
2968	Photoresistive switching of multiferroic thin film memristors. Microelectronic Engineering, 2018, 187-188, 139-143.	1.1	9
2969	Main-line memristor mounted type loaded-line phase shifter realization. Microelectronic Engineering, 2018, 185-186, 48-54.	1.1	9
2970	Exploring resistive switchingâ€based memristors in the charge–flux domain: A modeling approach. International Journal of Circuit Theory and Applications, 2018, 46, 29-38.	1.3	29
2971	Role of highly doped Si substrate in bipolar resistive switching of silicon nitride MIS-capacitors. Microelectronic Engineering, 2018, 187-188, 134-138.	1.1	32
2972	Bipolar resistive switching with coexistence of mem-elements in the spray deposited CoFe2O4 thin film. Journal of Materials Science: Materials in Electronics, 2018, 29, 3231-3238.	1.1	24

#	Article	IF	CITATIONS
2973	Global Uniform Asymptotic Fixed Deviation Stability and Stability for Delayed Fractional-order Memristive Neural Networks with Generic Memductance. Neural Networks, 2018, 98, 65-75.	3.3	38
2974	Passivity Analysis of Stochastic Memristor-Based Complex-Valued Recurrent Neural Networks with Mixed Time-Varying Delays. Neural Processing Letters, 2018, 47, 1097-1113.	2.0	26
2975	Global exponential stability of memristive Cohen–Grossberg neural networks with mixed delays and impulse time window. Neurocomputing, 2018, 275, 2384-2391.	3.5	30
2976	Global exponential periodicity and stability of memristor-based complex-valued delayed neural networks. International Journal of Systems Science, 2018, 49, 231-245.	3.7	5
2977	Intrinsic mechanism in nonvolatile polycrystalline zirconium oxide sandwiched structure. Journal of Materials Science: Materials in Electronics, 2018, 29, 2301-2306.	1.1	6
2978	Holding State Performance Amelioration by Exploitation of NMOS Body Effect in 1T DRAM Cells. Wireless Personal Communications, 2018, 99, 47-66.	1.8	0
2979	Generalized modeling of the fractional-order memcapacitor and its character analysis. Communications in Nonlinear Science and Numerical Simulation, 2018, 59, 177-189.	1.7	19
2980	Region stability analysis and tracking control of memristive recurrent neural network. Neural Networks, 2018, 98, 51-58.	3.3	24
2981	Memristive properties of transparent oxide semiconducting (Ti,Cu)O <i></i> -gradient thin film. Semiconductor Science and Technology, 2018, 33, 015002.	1.0	7
2982	Analysis of the row grounding technique in a memristorâ€based crossbar array. International Journal of Circuit Theory and Applications, 2018, 46, 122-137.	1.3	22
2983	A chaotic memcapacitor oscillator with two unstable equilibriums and its fractional form with engineering applications. Nonlinear Dynamics, 2018, 91, 957-974.	2.7	60
2984	Anticipation of digital patterns. International Journal of Circuit Theory and Applications, 2018, 46, 235-243.	1.3	13
2985	Ultrasensitive detection of Ebola matrix protein in a memristor mode. Nano Research, 2018, 11, 1057-1068.	5.8	43
2986	Finite-Time and Fixed-Time Stabilization Control of Delayed Memristive Neural Networks: Robust Analysis Technique. Neural Processing Letters, 2018, 47, 1077-1096.	2.0	24
2987	Memristor-Based Circuit Design for Multilayer Neural Networks. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 677-686.	3.5	158
2988	Fast In-Memory Computation of Boolean Functions in Memristive Crossbar Array., 2018, , .		3
2989	Memristor-CNTFET based Ternary Comparator unit. , 2018, , .		6
2990	Multi-Bit RRAM Transient Modelling and Analysis. , 2018, , .		4

#	Article	IF	CITATIONS
2991	A Memristive Activation Circuit for Deep Learning Neural Networks. , 2018, , .		2
2992	Incremental Grounded Voltage Controlled Memristor Emulator. , 2018, , .		8
2993	Live Demonstration: Benchmarking Analogue Performance of Emerging Random Access Memory Technologies. , $2018, , .$		0
2994	1-Transistor-1-Memristor Multilevel Memory Cell. , 2018, , .		2
2995	Global Mittag-Leffler synchronization of delayed fractional-order memristive neural networks. Advances in Difference Equations, 2018, 2018, .	3.5	16
2996	Dynamical Behaviors of a Modified Chua's Circuit. , 2018, , .		1
2997	Implantable Technology: History, Controversies, and Social Implications [Commentary]. IEEE Technology and Society Magazine, 2018, 37, 35-45.	0.6	6
2998	Dilute electrodeposition of TiO2and ZnO thin film memristors on Cu substrate. IOP Conference Series: Materials Science and Engineering, 2018, 340, 012006.	0.3	2
2999	About v-i Pinched Hysteresis of Some Non-Memristive Systems. Mathematical Problems in Engineering, 2018, 2018, 1-10.	0.6	10
3000	Exact Analysis and Physical Realization of the 6-Lobe Chua Corsage Memristor. Complexity, 2018, 2018, 1-21.	0.9	16
3001	New Memristive Band-Pass and Band-Stop Filter Circuits for Signal Division. , 2018, , .		2
3002	Notice of Retraction: Analysis of Hyperbolic Tangent Passive Resistive Neuron With CMOS-Memristor Circuit., 2018,,.		1
3003	Design and Study of Memristor based Non-autonomous Chua's circuit. , 2018, , .		3
3004	On N-Shaped I-V Characteristic Devices with Memristive Behavior. , 2018, , .		1
3005	Memristive LSTM network hardware architecture for time-series predictive modeling problems. , 2018, , .		23
3006	Digital Design using CMOS and Hybrid CMOS/Memristor Gates: A Comparative Study. , 2018, , .		4
3007	A Data erasing Writing technique based 1T1M Quaternary Memory Circuit Design. , 2018, , .		2
3008	Memristor Emulator Applications Using the MOS-Only Technique. , 2018, , .		5

#	Article	IF	CITATIONS
3009	A Compact CMOS Memristor Emulator Circuit and its Applications. , 2018, , .		18
3010	Study on Acttive Filter Based on Memristor and Memcapacitor. , 2018, , .		3
3011	Nanoscale Memristive Crossbar Circuits for Approximate Edge Detection in Smart Cameras., 2018,,.		6
3012	On the Variability-aware Design of Memristor-based Logic Circuits. , 2018, , .		4
3013	Memristor Adder Design. , 2018, , .		1
3014	Memristor-Based Synaptic Sampling Machines. , 2018, , .		1
3015	Nonlinear DC equivalent circuits for ferroelectric memristor and Its FSM application. Integrated Ferroelectrics, 2018, 192, 16-27.	0.3	3
3016	An Optimized Morris-Lecar Neuron Model Using Wave Digital Principles. , 2018, , .		13
3017	Energy Network Theory for Modeling and Analysis of Integrated Energy Systems. , 2018, , .		1
3018	Variability-Tolerant Memristor-based Ratioed Logic in Crossbar Array. , 2018, , .		5
3019	Synthesis of Compact Crossbars for in-Memory Computing using Dynamic FBDDs. , 2018, , .		2
3020	Analysis and Simulations of Hybrid Memory Scheme Based on Memristors. Electronics (Switzerland), 2018, 7, 289.	1.8	14
3021	Event-Triggered and Memory-Based Sliding Mode Variable Structure Control for Memristive Systems. Electronics (Switzerland), 2018, 7, 253.	1.8	9
3022	Passivity of Memristor-Based Inertial Neural Networks with Multi-Proportional Delays. , 2018, , .		0
3023	A Fractional-Order Memristive System with Time-Delay and No Equilibrium Points., 2018,,.		0
3024	A Novel Charge-Controlled Memristor Model and Its Emulator Circuit. , 2018, , .		0
3025	Finite-time Anti-synchronization of Stochastic Delayed Memristive Neural Networks. , 2018, , .		1
3026	A Twin Memristor Synapse for Spike Timing Dependent Learning in Neuromorphic Systems. , 2018, , .		9

#	Article	IF	CITATIONS
3027	Analysis of Process Variations, Defects, and Design-Induced Coupling in Memristors. , 2018, , .		22
3028	Vector Matrix Multiplication Using Crossbar Arrays: A Comparative Analysis. , 2018, , .		4
3029	Novel CNTFET and Memristor based Unbalanced Ternary Logic Gate. , 2018, , .		8
3030	Representation of Qubit States using 3D Memristance Spaces. , 2018, , .		3
3031	Synthesis, stabilization and applications of 2-dimensional 1T metallic MoS ₂ . Journal of Materials Chemistry A, 2018, 6, 23932-23977.	5. 2	250
3032	A Circuit Implementation Method for Memristor Crossbar with On-chip Training. , 2018, , .		2
3033	Low-Power Resistive Associative Processor Implementation Through the Multi-Compare. , $2018, \ldots$		2
3034	A Purely Digital Memristor Emulator based on a Flux-Charge Model. , 2018, , .		2
3035	Modeling of Memristors Under Sinusoidal Excitations with Various Frequencies. , 2018, , .		2
3036	Memristor emulators with symmetric and asymmetric threshold voltages. , 2018, , .		2
3037	Memristor-Based Computing. IEEE Micro, 2018, 38, 5-6.	1.8	1
3038	Charge-Controlled Memristor Grid for Edge Detection. , 0, , .		3
3039	Determining the Fault Tolerance of Memristors Based Neural Network Using Simulation and Design of Experiments. , 2018, , .		8
3040	Extended Dissipativity Analysis of Delayed Memristive Neural Networks Based on A Parameter-Dependent Lyapunov Functional. , 2018, , .		1
3041	Analysis of Switching Network Based on Third-order Circuit with a Memristor. , 2018, , .		0
3042	Minimizing Performance and Energy Overheads Due to Fanout In Memristor based Logic Implementations. , 2018, , .		5
3043	Programmable Threshold Comparator Using High Frequency Operational Transconductance Amplifier (OTA) Based Memristor., 2018,,.		1
3044	Modelling and Simulation of Non-Ideal MAGIC NOR Gates on Memristor Crossbar. , 2018, , .		0

#	Article	IF	CITATIONS
3045	Neural Network Topology Formation Using Memristive Jaumann Structures. , 2018, , .		7
3046	The Novel Nonlinear Dynamics and Performance in Switch Circuit with Memristor Load Applied. , 2018,		0
3047	Fractional-order memristor-based chaotic jerk system with no equilibrium point and its fractional-order backstepping control. IFAC-PapersOnLine, 2018, 51, 1-6.	0.5	16
3048	A New 3-D Memristive Time-delay Chaotic System with Multi-scroll and Hidden Attractors. IFAC-PapersOnLine, 2018, 51, 580-585.	0.5	6
3049	Design of Memristive Hopfield Neural Network using Memristor Bridges. International Journal of Engineering and Technology(UAE), 2018, 7, 652.	0.2	0
3050	Adaptive Control for Exponential Synchronization of Delayed Memristive Neural Networks., 2018,,.		0
3051	Observer-Based Fuzzy Control for Memristive Circuit Systems. Complexity, 2018, 2018, 1-10.	0.9	1
3052	A New Read Circuit for Multi-Bit Memristor-Based Memories based on Time to Digital Sensing Circuit. , 2018, , .		8
3053	Straintronics: a new trend in micro- and nanoelectronics and materials science. Physics-Uspekhi, 2018, 61, 1175-1212.	0.8	165
3054	Improved TiO ₂ TEAM Model Using a New Window Function., 2018,,.		2
3055	Training On-chip Hardware with Two Series Memristor Based Backpropagation Algorithm., 2018,,.		1
3056	Memristors â€" the principle of operation and the areas of applications. , 2018, , .		0
3057	Dynamical Analysis of Memristive Unified Chaotic System and Its Application in Secure Communication. IEEE Access, 2018, 6, 66055-66061.	2.6	14
3058	Development of an Operator-based Fully Analytical Charge-controlled Memristor Model. , 2018, , .		1
3059	Memristive Optimizer for the Assignment Task. , 2018, , .		0
3060	Emulating dynamic synaptic plasticity over broad timescales with memristive device. Applied Physics Letters, 2018, 113, .	1.5	21
3061	Real-Time Cardiac Arrhythmia Classification Using Memristor Neuromorphic Computing System. , 2018, 2018, 2567-2570.		6
3062	A Neuromorphic Design Using Chaotic Mott Memristor with Relaxation Oscillation. , 2018, , .		1

#	Article	IF	CITATIONS
3063	Single Image Super-Resolution via the Implementation of the Hardware-Friendly Sparse Coding. , 2018, , .		4
3064	Statistical Memristor-Based Temperature Sensors without Analog-to-Digital Conversion. , 2018, , .		5
3065	Synchronization for fuzzy models of memristive stochastic neural networks via aperiodically intermittent control. , $2018, , .$		0
3066	Notice of Retraction: CMOS-Memristive Sigmoid Activation Function. , 2018, , .		O
3067	Experimental Verification of Triple Lobes Generation in Fractional Memristive Circuits. IEEE Access, 2018, 6, 75169-75180.	2.6	11
3068	Notice of Retraction: Frequency Analysis of Memristor Based Low Pass Bessel Filter. , 2018, , .		1
3069	Notice of Retraction: Analysis of CMOS-Memristive Analog Multiplier Design. , 2018, , .		0
3070	Control of multi-scroll attractors in a memristor-coupled resonator via time-delayed feedback. Modern Physics Letters B, 2018, 32, 1850399.	1.0	14
3071	Easily Cascaded Memristor-CMOS Hybrid Circuit for High-Efficiency Boolean Logic Implementation. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1850149.	0.7	28
3072	Notice of Retraction: Variability Analysis of Cascode Current Mirror Designs with CMOS-memristive Components. , 2018, , .		0
3073	Coexistence of memristive and memcapacitive effects in oxide thin films. Japanese Journal of Applied Physics, 2018, 57, 121502.	0.8	14
3074	Recent Advances in Memristive Materials for Artificial Synapses. Advanced Materials Technologies, 2018, 3, 1800457.	3.0	161
3075	Emulating memristors in a digital environment using stochastic logic., 2018,,.		2
3076	Multifunctional Optoelectronic Device Based on Resistive Switching Effects. , 0, , .		4
3077	Torus Breakdown in a Uni Junction Memristor. , 2018, , .		0
3078	Memory characteristics of microcavity dielectric barrier discharge. Journal of Semiconductors, 2018, 39, 114008.	2.0	1
3079	Elimination of spiral waves in excitable media by magnetic induction. Nonlinear Dynamics, 2018, 94, 679-692.	2.7	46
3080	Resistive Switching Behavior seen from the Energy Point of View. , 2018, , .		0

#	Article	IF	CITATIONS
3081	Semi-Trained Memristive Crossbar Computing Engine with In Situ Learning Accelerator. ACM Journal on Emerging Technologies in Computing Systems, 2018, 14, 1-16.	1.8	3
3082	ReRAM-based Circuit and System Design for Future Storage and Computing. , 2018, , .		0
3083	Complexity Analysis of a Mixed Memristive Chaotic Circuit. Complexity, 2018, 2018, 1-9.	0.9	7
3084	Extreme multi-stability in hyperjerk memristive system with hidden attractors and its adaptive synchronisation scheme. International Journal of Simulation and Process Modelling, 2018, 13, 433.	0.1	4
3085	Finite-time synchronisation of memristive hyperchaotic circuit based on Lorenz system with transmission delay. International Journal of Simulation and Process Modelling, 2018, 13, 582.	0.1	0
3086	Real-World Capacitor as a Memcapacitive Element. , 2018, , .		2
3087	A new modeled fractional-order memristor and its analysis in series circuit., 2018,,.		0
3088	Complementary Resistive Switch Sensing. , 2018, , .		3
3089	A Novel Approach to Analyze Current-Voltage Characteristics of Double Gated-Memristor. , 2018, , .		2
3090	Chaotic Behavior of Traffic-Flow Evolution with Two Departure Intervals in Two-Link Transportation Network. Discrete Dynamics in Nature and Society, 2018, 2018, 1-11.	0.5	5
3091	On the Memristances, Parameters, and Analysis of the Fractional Order Memristor. Active and Passive Electronic Components, 2018, 2018, 1-14.	0.3	9
3092	Notice of Retraction: A Linear-Logarithmic CMOS-Memristor Vision Sensor. , 2018, , .		0
3093	Characteristic analysis of the fractional-order hyperchaotic memristive circuit based on the Wien bridge oscillator. European Physical Journal Plus, 2018, 133, 1.	1.2	18
3094	Dynamic Behaviors and the Equivalent Realization of a Novel Fractional-Order Memristor-Based Chaotic Circuit. Complexity, 2018, 2018, 1-13.	0.9	8
3095	Notice of Retraction: New Voltage Mode Sense Amplifier Design with CMOS-Memristive Components. , 2018, , .		1
3096	Synchronization of Stochastic Memory Neural Networks with Time-varying Delays via Feedback control., 2018,,.		1
3097	Finite-Time Stabilization of Memristive Cohen-Grossberg Neural Networks with Time-Varying Delay. Complexity, 2018, 2018, 1-15.	0.9	1
3098	Adaptive Memristor-based PI Control of a DC/DC Converter Non-minimum Phase System., 2018,,.		4

#	Article	IF	CITATIONS
3099	Solution-Processable ZnO Thin Film Memristive Device for Resistive Random Access Memory Application. Electronics (Switzerland), 2018, 7, 445.	1.8	39
3100	Area-Efficient and Reliable Hybrid CMOS/Memristor ECC Circuit for ReRAM Storage. , 2018, , .		3
3101	Memristor-Based Phase Shifter. , 2018, , .		6
3102	Memristors for the Curious Outsiders. Technologies, 2018, 6, 118.	3.0	37
3103	Model Order Reduction of Nonlinear Circuit using Proper Orthogonal Decomposition and Nonlinear Autoregressive with eXogenous input (NARX) Neural Network., 2018,,.		5
3104	Memristor: Remembrance of Things Past. IEEE Micro, 2018, 38, 7-12.	1.8	8
3105	RF Single-Pole Double-Throw Switch Based on Memistor. , 2018, , .		2
3106	A New Memristor-Based 5D Chaotic System and Circuit Implementation. Complexity, 2018, 2018, 1-12.	0.9	13
3107	Modified RSA Encryption Algorithm Based on Chaos and Its Application in Voice Encryption System. , 2018, , .		4
3108	A Compact Model of Drift and Diffusion Memristor Applied in Neuron Circuits Design. , 2018, , .		1
3109	On Usage of Neuromorphic Engineering in Autonomous Robots. , 2018, , .		1
3110	New Results on Fuzzy Synchronization for a Kind of Disturbed Memristive Chaotic System. Complexity, 2018, 2018, 1-9.	0.9	15
3111	Memristor-CMOS Analog Co-Processor for Acceleration of High Performance Computing Applications. , 2018, , .		0
3112	Design of a Simple Readout Circuit for Resistive Switching Memristors Based on CMOS Inverters. , 2018, , .		3
3113	Memristive behavior of field-driven domain-wall motion in a width-modulated structure with multiple Hall crosses. Journal of Applied Physics, 2018, 124, 193902.	1.1	1
3114	Chaotic Oscillator Based on a Modified Voltage-Controlled HP Memristor Model. , 2018, , .		4
3115	Efficient Memristor-Based Architecture for Intrusion Detection and High-Speed Packet Classification. ACM Journal on Emerging Technologies in Computing Systems, 2018, 14, 1-27.	1.8	7
3116	On Designing Feedback Controllers for Master-Slave Synchronization of Memristor-Based Chua's Circuits. Complexity, 2018, 2018, 1-8.	0.9	2

#	Article	IF	CITATIONS
3117	Controlling Conductive Filament and Tributyrin Sensing Using an Optimized Porous Iridium Interfacial Layer in Cu/Ir/TiN <i>_x</i> /i>O <i>_y</i> /TiN. Advanced Electronic Materials, 2019, 5, 1800288.	2.6	30
3118	Fractional Dynamics, Anomalous Transport and Plasma Science. , 2018, , .		4
3119	Memristive Systems Based on Two-Dimensional Materials. , 0, , .		2
3120	Coexisting multiscroll hyperchaotic attractors generated from a novel memristive jerk system. Pramana - Journal of Physics, $2018, 91, 1$.	0.9	20
3121	Coexistence of filamentary and homogeneous resistive switching with memristive and meminductive memory effects in Al/MnO2/SS thin film metal–insulator–metal device. International Nano Letters, 2018, 8, 263-275.	2.3	25
3122	Notice of Retraction: Memristor-based Optimum Legendre Low-Pass Filter. , 2018, , .		0
3123	Memristor-Based Neuromorphic Hybrid CMOS Sub-Block Architecture for a High-Speed Arithmetic and Logic Unit. , $2018, \ldots$		0
3124	Data Management on Non-Volatile Memory: AÂPerspective. Datenbank-Spektrum, 2018, 18, 171-182.	1.2	7
3125	Memristive retinomorphic grid architecture removing noise and preserving edge. AEU - International Journal of Electronics and Communications, 2018, 97, 38-44.	1.7	10
3126	Perspective: A review on memristive hardware for neuromorphic computation. Journal of Applied Physics, 2018, 124, .	1.1	151
3127	Synaptic Behavior in Metal Oxide-Based Memristors. , 2018, , .		2
3128	One-Board Design and Simulation of Double-Layer Perceptron Based on Metal-Oxide Memristive Nanostructures. IEEE Transactions on Emerging Topics in Computational Intelligence, 2018, 2, 371-379.	3.4	30
3129	Passive memristor synaptic circuits with multiple timing dependent plasticity mechanisms. AEU - International Journal of Electronics and Communications, 2018, 96, 252-259.	1.7	11
3130	A multi-level memristor based on atomic layer deposition of iron oxide. Nanotechnology, 2018, 29, 495201.	1.3	26
3131	Mem-Spring Models Combined with Hybrid Dynamical System Approach to Represent Material Behavior. Journal of Engineering Mechanics - ASCE, 2018, 144, 04018109.	1.6	7
3132	Oxide Thin Films for Memristive Devices. , 2018, , 346-356.		O
3133	Memristive Fractional-Order Nonlinear Model for Circuit Design. , 2018, , 421-449.		0
3134	Global dissipativity analysis of quaternion-valued memristor-based neural networks with proportional delay. Neurocomputing, 2018, 321, 103-113.	3.5	37

#	Article	IF	CITATIONS
3135	Tutorial: Fabrication and three-dimensional integration of nanoscale memristive devices and arrays. Journal of Applied Physics, 2018, 124, .	1.1	7
3136	Physical Issues and Applications of Resistive Switching Phenomena. Journal of the Korean Physical Society, 2018, 73, 852-857.	0.3	0
3137	Memristor-Based Circuit Design for Neuron With Homeostatic Plasticity. IEEE Transactions on Emerging Topics in Computational Intelligence, 2018, 2, 359-370.	3.4	17
3138	Bipolar resistive switching device based on N,N′-bis(3-methylphenyl)-N,N′-diphenylbenzidine and poly(3,4-ethylenedioxythiophene):poly(styrene sulfonate)/poly(vinyl alcohol) bilayer stacked structure. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	23
3139	Development of a molecular gap-type atomic switch and its stochastic operation. Journal of Applied Physics, 2018, 124, 152114.	1.1	13
3140	Technology Aware Training in Memristive Neuromorphic Systems for Nonideal Synaptic Crossbars. IEEE Transactions on Emerging Topics in Computational Intelligence, 2018, 2, 335-344.	3.4	60
3141	Finite-time modified projective synchronization of memristor-based neural network with multi-links and leakage delay. Chaos, Solitons and Fractals, 2018, 116, 302-315.	2.5	21
3142	Flux-Charge Analysis of Initial State-Dependent Dynamical Behaviors of a Memristor Emulator-Based Chua's Circuit. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1850120.	0.7	30
3143	Torus Breakdown in a Uni Junction Memristor. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1850128.	0.7	8
3144	Design and investigation of a chaotic neural network architecture for cryptographic applications. Computers and Electrical Engineering, 2018, 72, 179-190.	3.0	12
3145	Theoretical investigation of the Ag filament morphology in conductive bridge random access memories. Journal of Applied Physics, 2018, 124, .	1.1	17
3146	Temperature dependent analytical modeling and simulations of nanoscale memristor. Engineering Science and Technology, an International Journal, 2018, 21, 862-868.	2.0	17
3147	The non-linear electrical properties of human skin make it a generic memristor. Scientific Reports, 2018, 8, 15806.	1.6	29
3148	Window function for fractionalâ€order HP nonâ€linear memristor model. IET Circuits, Devices and Systems, 2018, 12, 447-452.	0.9	13
3149	Modeling Sinusoidally Driven Self-Directed Channel Memristors. , 2018, , .		1
3150	Analysis and Design of Memristor Crossbar Based Neuromorphic Intrusion Detection Hardware. , 2018, , .		5
3151	Modified hyperbolic sine model for titanium dioxide-based memristive thin films. IOP Conference Series: Materials Science and Engineering, 2018, 341, 012018.	0.3	3
3152	Rectifying Resistive Memory Devices as Dynamic Complementary Artificial Synapses. Frontiers in Neuroscience, 2018, 12, 755.	1.4	7

#	Article	IF	Citations
3153	Tutorial: Concepts for closely mimicking biological learning with memristive devices: Principles to emulate cellular forms of learning. Journal of Applied Physics, 2018, 124, .	1.1	60
3154	Memristor-CMOS Analog Coprocessor for Acceleration of High-Performance Computing Applications. ACM Journal on Emerging Technologies in Computing Systems, 2018, 14, 1-30.	1.8	5
3155	Exponential Synchronization of Stochastic Memristive Recurrent Neural Networks Under Alternate State Feedback Control. International Journal of Control, Automation and Systems, 2018, 16, 2859-2869.	1.6	22
3156	A Memristive Neural Network Model With Associative Memory for Modeling Affections. IEEE Access, 2018, 6, 61614-61622.	2.6	21
3157	Towards an In-Memory Reconfiguration of Arithmetic Logical Unit using Memristor Crossbar Array. , 2018, , .		1
3158	Dynamical Behaviors of Coupled Memristor-Based Oscillators with Identical and Different Nonlinearities. Mathematical Problems in Engineering, 2018, 2018, 1-20.	0.6	1
3159	A Flexible Memristor-Based Neural Network. Communications in Computer and Information Science, 2018, , 263-272.	0.4	0
3160	Bipolar resistive switching in metal-insulator-semiconductor nanostructures based on silicon nitride and silicon oxide. Journal of Physics: Conference Series, 2018, 993, 012028.	0.3	7
3161	Perspective: Spintronic synapse for artificial neural network. Journal of Applied Physics, 2018, 124, .	1.1	67
3162	Notice of Retraction: Implementation of True Random Number Generator based on Double-Scroll Attractor circuit with GST memristor emulator. , 2018 , , .		5
3163	Mechanism of electron transport and bipolar resistive switching in lead oxide thin films. AIP Advances, $2018, 8, .$	0.6	20
3164	Notice of Retraction: Perceptron Linear Activation Function Design with CMOS-Memristive Circuits. , 2018, , .		1
3165	Notice of Retraction: Analysis of Multilayer Perceptron with Rectifier Linear Unit Activation Function. , $2018, \ldots$		2
3166	Input-to-state stability of impulsive inertial memristive neural networks with time-varying delayed. Journal of the Franklin Institute, 2018, 355, 8971-8988.	1.9	10
3167	Composing with Biomemristors: Is Biocomputing the New Technology of Computer Music?. Computer Music Journal, 2018, 42, 28-46.	0.3	6
3168	Hardware implementation of classical conditioning with iron-oxide-based memristors. Applied Physics Express, 2018, 11, 114601.	1.1	5
3169	Memory effects in the ion conductor Rb2Ti2O5. Journal of Applied Physics, 2018, 124, 152104.	1.1	1
3170	Gate‶unable Synaptic Plasticity through Controlled Polarity of Charge Trapping in Fullerene Composites. Advanced Functional Materials, 2018, 28, 1805599.	7.8	138

#	Article	IF	CITATIONS
3171	Low Power Memristor Crossbar Based Winner Takes All Circuit. , 2018, , .		3
3172	A Three Input Look-Up-Table Design Based on Memristor-CMOS. Communications in Computer and Information Science, 2018, , 275-286.	0.4	0
3173	Notice of Retraction: Current Sense Amplifier Design with CMOS-Memristive Circuits. , 2018, , .		0
3174	Notice of Retraction: Brief Tutorial on HP Memristor-based Chua's Chaotic Oscillator., 2018,,.		0
3175	A Review of Near-Memory Computing Architectures: Opportunities and Challenges. , 2018, , .		58
3176	Dynamical Behavior of a 3D Jerk System with a Generalized Memristive Device. Complexity, 2018, 2018, 1-10.	0.9	6
3177	Collective capacitive and memristive responses in random nanowire networks: Emergence of critical connectivity pathways. Journal of Applied Physics, 2018 , 124 , .	1.1	28
3178	Electric field driven memristive behavior at the Schottky interface of Nb-doped SrTiO3. Journal of Applied Physics, 2018, 124, .	1.1	15
3179	Magnetic domain wall neuron with lateral inhibition. Journal of Applied Physics, 2018, 124, .	1.1	56
3180	Modeling of Coupled Memristive-Based Architectures Applicable to Neural Network Models. , 2018, , .		0
3181	Emulator Circuits and Resistive Switching Parameters of Memristor. , 0, , .		4
3182	Effects of single-pulse Al2O3 insertion in TiO2 oxide memristors by low temperature ALD. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	19
3183	Global exponential synchronization of multiple coupled inertial memristive neural networks with time-varying delay via nonlinear coupling. Neural Networks, 2018, 108, 260-271.	3.3	56
3184	A physical SBT-memristor-based Chua's circuit and its complex dynamics. Chaos, 2018, 28, 083121.	1.0	8
3185	Experimental hysteresis in memristor based Duffing oscillator. Chaos, Solitons and Fractals, 2018, 115, 190-195.	2.5	15
3186	Development of self-rectifying ZnO thin film resistive switching memory device using successive ionic layer adsorption and reaction method. Journal of Materials Science: Materials in Electronics, 2018, 29, 18733-18741.	1.1	29
3187	Universal and Convenient Optimization Strategies for Three-Terminal Memristors. IEEE Access, 2018, 6, 48815-48826.	2.6	2
3188	Electroforming-free TaOx memristors using focused ion beam irradiations. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	6

#	Article	IF	CITATIONS
3189	A Novel Scan-In Scheme for CMOS/ReRAM Programmable Logic Circuits. , 2018, , .		1
3190	A multiple focus-center-cycle bifurcation in 4D discontinuous piecewise linear memristor oscillators. Nonlinear Dynamics, 2018, 94, 3011-3028.	2.7	7
3191	Memristor Neural Network Design., 0,,.		10
3192	A Synaptic Electrochemical Memristor Based on the Cu ²⁺ /Zn ²⁺ Cation Exchange in Zn:CdS Thin Films. ChemistrySelect, 2018, 3, 9794-9802.	0.7	7
3193	Graphene Oxide-Based Memristor., 0, , .		6
3194	Mathematical Modeling of Memristors., 0,,.		2
3195	Resistive switching device with highly asymmetric current–voltage characteristics: a solution to backward sneak current in passive crossbar arrays. Nanotechnology, 2018, 29, 455201.	1.3	15
3196	An accurate analytical memristor model for SPICE simulators. IEICE Electronics Express, 2018, 15, 20180724-20180724.	0.3	5
3197	On the Use of Modified Biolek Window for Memristor Modeling in VerilogA. , 2018, , .		1
3198	Synchronization of memristive neural networks with mixed delays via quantized intermittent control. Applied Mathematics and Computation, 2018, 339, 874-887.	1.4	86
3199	Spintronic memristor synapse and its RWC learning algorithm. IET Circuits, Devices and Systems, 2018, 12, 579-588.	0.9	5
3200	Review of memristor devices in neuromorphic computing: materials sciences and device challenges. Journal Physics D: Applied Physics, 2018, 51, 503002.	1.3	326
3201	A Compact Model for Drift and Diffusion Memristor Applied in Neuron Circuits Design. IEEE Transactions on Electron Devices, 2018, 65, 4290-4296.	1.6	21
3202	Analysis and Implementation of a New Switching Memristor Scroll Hyperchaotic System and Application in Secure Communication. Complexity, 2018, 2018, 1-15.	0.9	10
3203	Training an Artificial Neural Network with Op-amp Integrators Based Analog Circuits. , 2018, , .		0
3204	Evaluation of Visual, Auditory and Vibro-Tactile Alerts in Supervised Interfaces., 2018,,.		1
3205	Design and Implementation of BIST. , 2018, , .		3
3207	A Hybrid CMOS-Memristor based Programmable Wien Bridge Oscillator. , 2018, , .		3

#	Article	IF	CITATIONS
3208	An On-Orbit Initial Alignment Method for Reusable Spacecraft with INS Star Sensor and GPS. , 2018, , .		0
3209	Effect of Mobility and Different Frequency on a MEMRISTOR and Simulation on SPICE. , 2018, , .		0
3210	Operating conditions analysis of memristor model. International Journal of Engineering and Technology(UAE), 2018, 7, 2291.	0.2	0
3211	A Low Power Hybrid CMOS-Memristor based Ring Oscillator for Hardware Security Applications. , 2018, , .		2
3212	Reliability Analysis of Memristor using Supervised Learning Algorithm. , 2018, , .		1
3213	Notice of Removal: A Reconfigurable Non-Blocking Multicast Permutation Network. , 2018, , .		0
3214	LabVIEW based HP memristor simulator with hardware connectivity for real time circuit operation. , 2018, , .		0
3216	Classification of EEG Based Imagine Speech Using Time Domain Features. , 2018, , .		1
3217	Haze removal Methods: A Comprehensive Review. , 2018, , .		4
3218	Insilico L3-L4 Stress Prediction Using Artificial Intelligence Techniques. , 2018, , .		0
3219	Effect of Antisolvent Method on the Performance of HOIP based Memristive Devices. , 2018, , .		0
3220	Neural Network Macromodeling of Nonlinear Electrical Circuit for Variable Frequency Inputs using Karhunen-Loeve Decomposition. , 2018, , .		1
3221	Synchronization of Delay Memristive System with Piecewise Function based on a Disturbance Observer. , 2018, , .		0
3223	Electro-Hydraulic Actuation System Modeling using Bond Graph Technique. , 2018, , .		2
3225	A bi-memristor synapse with spike-timing-dependent plasticity for on-chip learning in memristive neuromorphic systems. , 2018, , .		7
3226	CACF. Transactions on Architecture and Code Optimization, 2018, 15, 1-26.	1.6	26
3227	Portable Memristive Biosensing System as Effective Point-of-Care Device for Cancer Diagnostics. , 2018, , .		8
3228	Towards memristor-based approximate accelerator: application to complex-valued FIR filter bank. Analog Integrated Circuits and Signal Processing, 2018, 96, 577-588.	0.9	4

#	Article	IF	CITATIONS
3229	Chua Mem-Components for Adaptive RF Metamaterials., 2018,,.		15
3230	Neuromorphic Computing with Memristor Crossbar. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700875.	0.8	60
3231	Design disturbance attenuating controller for memristive recurrent neural networks with mixed time-varying delays. Advances in Difference Equations, 2018, 2018, .	3.5	2
3232	Synchronization Analysis of Inertial Memristive Neural Networks with Time-Varying Delays. Journal of Artificial Intelligence and Soft Computing Research, 2018, 8, 269-282.	3.5	13
3233	Implementation of adaptive neuron based on memristor and memcapacitor emulators. Neurocomputing, 2018, 309, 157-167.	3.5	39
3234	Nanoscale Conductive Filament with Alternating Rectification as an Artificial Synapse Building Block. ACS Nano, 2018, 12, 5946-5955.	7.3	25
3235	Obtaining memristor elements based on non-noble materials. MATEC Web of Conferences, 2018, 143, 03009.	0.1	0
3236	OTA based high frequency tunable resistorless grounded and floating memristor emulators. AEU - International Journal of Electronics and Communications, 2018, 92, 124-145.	1.7	58
3237	Singularities of Nonlinear Circuit Theory and Applications: Achievements of Professor Leon Ong Chua. IEEE Circuits and Systems Magazine, 2018, 18, 10-13.	2.6	7
3238	A novel adaptive learning algorithm for low-dimensional feature space using memristor-crossbar implementation and on-chip training. Applied Intelligence, 2018, 48, 4174-4191.	3.3	7
3239	Selection of spatial pattern on resonant network of coupled memristor and Josephson junction. Communications in Nonlinear Science and Numerical Simulation, 2018, 65, 79-90.	1.7	43
3240	Probing memristive switching in nanoionic devices. Nature Electronics, 2018, 1, 274-287.	13.1	128
3241	The memristor revisited. Nature Electronics, 2018, 1, 261-261.	13.1	15
3242	Construction of fluxâ€controlled memristor and circuit simulation based on smooth cellular neural networks module. IET Circuits, Devices and Systems, 2018, 12, 263-270.	0.9	9
3243	A Memristor Model with a Modified Window Function and Activation Thresholds. , 2018, , .		15
3244	Design and implementation of passive memristor emulators using a charge-flux approach. , 2018, , .		9
3245	Neuromorphic Vision Hybrid RRAM-CMOS Architecture. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 2816-2829.	2.1	41
3246	Study of Ag/RGO/ITO sandwich structure for resistive switching behavior deposited on plastic substrate. Applied Nanoscience (Switzerland), 2018, 8, 1343-1351.	1.6	7

#	Article	IF	CITATIONS
3247	Taming Spatiotemporal Chaos in Forced Memristive Arrays. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 2947-2954.	2.1	8
3248	Synchronization criteria for inertial memristor-based neural networks with linear coupling. Neural Networks, 2018, 106, 260-270.	3.3	60
3249	Obtaining memristor elements based on non-noble materials. MATEC Web of Conferences, 2018, 143, 03009.	0.1	0
3250	An Excitation Time Model for General-purpose Memristance Tuning Circuit. , 2018, , .		3
3251	Analytical Study on the Influence of Parasitic Elements in a Memristor. Mathematical Problems in Engineering, 2018, 2018, 1-7.	0.6	0
3252	Synchronization of a Class of Memristive Stochastic Bidirectional Associative Memory Neural Networks with Mixed Time-Varying Delays via Sampled-Data Control. Mathematical Problems in Engineering, 2018, 2018, 1-24.	0.6	2
3253	A novel structure ZnO-Fe-ZnO thin film memristor. Materials Science in Semiconductor Processing, 2018, 86, 43-48.	1.9	16
3254	Can "Memristors―be applied in economic models?. , 2018, , .		O
3255	Circuit Implementation, Synchronization of Multistability, and Image Encryption of a Four-Wing Memristive Chaotic System. Journal of Electrical and Computer Engineering, 2018, 2018, 1-13.	0.6	11
3256	Application of a memristor-based oscillator to weak signal detection. European Physical Journal Plus, 2018, 133, 1.	1.2	31
3257	Single Nanoparticle Magnetic Spin Memristor. Small, 2018, 14, e1801249.	5.2	70
3258	Invited Article: Quantum memristors in quantum photonics. APL Photonics, 2018, 3, 080801.	3.0	28
3259	Special issue on  Advances in Memristive Networks'. International Journal of Parallel, Emergent and Distributed Systems, 2018, 33, 347-349.	0.7	0
3260	Silicon Oxide (SiO <i>_x</i>): A Promising Material for Resistance Switching?. Advanced Materials, 2018, 30, e1801187.	11.1	156
3261	Finite-time anti-synchronization of memristive stochastic BAM neural networks with probabilistic time-varying delays. Chaos, Solitons and Fractals, 2018, 113, 244-260.	2.5	29
3262	A memristive plasticity model of voltage-based STDP suitable for recurrent bidirectional neural networks in the hippocampus. Scientific Reports, 2018, 8, 9367.	1.6	19
3263	[From the Editor]. IEEE Circuits and Systems Magazine, 2018, 18, 3-4.	2.6	0
3264	Design of low power RRAM cell using CNFET. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
3265	A neuromorphic design using chaotic mott memristor with relaxation oscillation., 2018,,.		0
3266	Passivity of coupled memristive delayed neural networks with fixed and adaptive coupling weights. Neurocomputing, 2018, 313, 346-363.	3.5	22
3267	Improvement of twoâ€step write scheme in complementary resistive switch array. IET Circuits, Devices and Systems, 2018, 12, 50-54.	0.9	1
3268	Reconfigurable logic in nanosecond Cu/GeTe/TiN filamentary memristors for energy-efficient in-memory computing. Nanotechnology, 2018, 29, 385203.	1.3	19
3269	Memristor models optimization for large-scale 1T1R memory arrays. , 2018, , .		2
3270	A widely amplitude-adjustable chaotic oscillator based on a physical model of HP memristor. IEICE Electronics Express, 2018, 15, 20171251-20171251.	0.3	4
3271	Current inverting metamutator, its implementation with a new single active device and applications. Analog Integrated Circuits and Signal Processing, 2018, 97, 15-25.	0.9	5
3272	Effect of anodic oxidation time on resistive switching memory behavior based on amorphous TiO2 thin films device. Chemical Physics Letters, 2018, 706, 477-482.	1.2	34
3273	Modeling and testing comparison faults of memristive ternary content addressable memories. , 2018, , .		1
3274	State estimation of fractional-order delayed memristive neural networks. Nonlinear Dynamics, 2018, 94, 1215-1225.	2.7	85
3275	Global dissipativity and quasi-synchronization of asynchronous updating fractional-order memristor-based neural networks via interval matrix method. Journal of the Franklin Institute, 2018, 355, 5998-6025.	1.9	46
3276	Organic synaptic devices for neuromorphic systems. Journal Physics D: Applied Physics, 2018, 51, 314004.	1.3	89
3277	Ultra-low power Hf _{0.5} Zr _{0.5} O ₂ based ferroelectric tunnel junction synapses for hardware neural network applications. Nanoscale, 2018, 10, 15826-15833.	2.8	165
3278	Adaptive Lag Synchronization of Memristive Neural Networks With Mixed Delays. IEEE Access, 2018, 6, 40768-40777.	2.6	5
3279	Memristor-Based Circuit Implementations of Recognition Network and Recall Network With Forgetting Stages. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 1133-1142.	2.6	22
3280	Polarization switching in the PbMg1/3Nb2/3O3 relaxor ferroelectric: An atomistic effective Hamiltonian study. Physical Review B, 2018, 98, .	1.1	10
3281	Modeling Memristor Radiation Interaction Events and the Effect on Neuromorphic Learning Circuits. , 2018, , .		7
3282	Fault tolerant adaptive write schemes for improving endurance and reliability of memristor memories. AEU - International Journal of Electronics and Communications, 2018, 94, 392-406.	1.7	12

#	Article	IF	CITATIONS
3283	Electrically Controlled Nano and Micro Actuation in Memristive Switching Devices with On hip Gas Encapsulation. Small, 2018, 14, e1801599.	5.2	7
3284	Logic Design Using Memristors: An Emerging Technology. , 2018, , .		6
3285	Bioinspired Computing with Synaptic Elements. Natural Computing Series, 2018, , 55-79.	2.2	1
3286	Five non-volatile memristor enigmas solved. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	91
3287	Fixed-time Synchronization of Memristive Cohen-Grossberg Neural Networks with Impulsive Effects. International Journal of Control, Automation and Systems, 2018, 16, 2214-2224.	1.6	26
3288	A new method for exponential synchronization of memristive recurrent neural networks. Information Sciences, 2018, 466, 152-169.	4.0	35
3289	Evaluation of the computational capabilities of a memristive random network (MN3) under the context of reservoir computing. Neural Networks, 2018, 106, 223-236.	3.3	9
3290	Scalable in-memory mapping of Boolean functions in memristive crossbar array using simulated annealing. Journal of Systems Architecture, 2018, 89, 49-59.	2.5	17
3291	An Integer-Order Memristive System with Two- to Four-Scroll Chaotic Attractors and Its Fractional-Order Version with a Coexisting Chaotic Attractor. Complexity, 2018, 2018, 1-7.	0.9	4
3292	Non-linear model of nanoscale devices for memory application. Indian Journal of Physics, 2018, 92, 1541-1550.	0.9	2
3293	A resistive switching memory device with a negative differential resistance at room temperature. Applied Physics Letters, 2018, 113, .	1.5	41
3294	Silicon Nanowires for Biosensing. , 2018, , 499-510.		3
3295	Subcritical Hopf Bifurcation and Stochastic Resonance of Electrical Activities in Neuron under Electromagnetic Induction. Frontiers in Computational Neuroscience, 2018, 12, 6.	1.2	22
3296	Spike-Timing Dependent Plasticity in Unipolar Silicon Oxide RRAM Devices. Frontiers in Neuroscience, 2018, 12, 57.	1.4	24
3297	Weighted Synapses Without Carry Operations for RRAM-Based Neuromorphic Systems. Frontiers in Neuroscience, 2018, 12, 167.	1.4	10
3298	Overwhelming coexistence of negative differential resistance effect and RRAM. Physical Chemistry Chemical Physics, 2018, 20, 20635-20640.	1.3	57
3299	Calibration of offset via bulk for low-power HfO2 based 1T1R memristive crossbar read-out system. Microelectronic Engineering, 2018, 198, 35-47.	1.1	5
3300	Investigation of Cortical Signal Propagation and the Resulting Spatiotemporal Patterns in Memristor-Based Neuronal Network. Complexity, 2018, 2018, 1-20.	0.9	1

#	Article	IF	CITATIONS
3301	Comparative analysis of memristor models and memories design. Journal of Semiconductors, 2018, 39, 074006.	2.0	26
3302	Study of fractional flux-controlled memristor emulator connections. , 2018, , .		6
3303	Wearable Intrinsically Soft, Stretchable, Flexible Devices for Memories and Computing. Sensors, 2018, 18, 367.	2.1	59
3304	Neuromorphic Computing Using Memristor Crossbar Networks: A Focus on Bio-Inspired Approaches. IEEE Nanotechnology Magazine, 2018, 12, 6-18.	0.9	42
3305	Global Mittag–Leffler stabilization of fractional-order complex-valued memristive neural networks. Applied Mathematics and Computation, 2018, 338, 346-362.	1.4	38
3306	Resistive switching control for conductive Si-nanocrystals embedded in Si/SiO ₂ multilayers. Nanotechnology, 2018, 29, 395203.	1.3	19
3307	Structure optimizations of neuromorphic computing architectures for deep neural network., 2018,,.		2
3308	Periodic oscillation of memristor-based recurrent neural networks with time-varying delays and leakage delays. International Journal of Intelligent Computing and Cybernetics, 2018, 11, 342-352.	1.6	0
3309	Analysis of Adaptive Synchronization for Stochastic Neutral-Type Memristive Neural Networks with Mixed Time-Varying Delays. Discrete Dynamics in Nature and Society, 2018, 2018, 1-13.	0.5	7
3310	Wave digital emulation of general memristors. International Journal of Circuit Theory and Applications, 2018, 46, 2011-2027.	1.3	17
3311	Fixed-time synchronization of memristor-based fuzzy cellular neural network with time-varying delay. Journal of the Franklin Institute, 2018, 355, 6780-6809.	1.9	42
3312	Organic electronics for neuromorphic computing. Nature Electronics, 2018, 1, 386-397.	13.1	672
3313	Device solutions to scientific computing. Nature Electronics, 2018, 1, 382-383.	13.1	2
3314	Global synchronization in nonlinearly coupled delayed memristor-based neural networks with excitatory and inhibitory connections. Journal of the Franklin Institute, 2018, 355, 6549-6578.	1.9	8
3315	Maze-solving with a memristive grid of charge-controlled memristors. , 2018, , .		3
3317	A Clock-Tuned Digital Memristor Emulator. , 2018, , .		0
3318	The case for rejecting the memristor as a fundamental circuit element. Scientific Reports, 2018, 8, 10972.	1.6	58
3319	Image Encryption Algorithm Based on Memristive BAM Neural Networks. , 2018, , .		10

#	Article	IF	CITATIONS
3320	A general memristor-based pulse coupled neural network with variable linking coefficient for multi-focus image fusion. Neurocomputing, 2018, 308, 172-183.	3.5	60
3321	Sampledâ€data synchronisation for memristive neural networks with multiple timeâ€varying delays via extended convex combination method. IET Control Theory and Applications, 2018, 12, 922-932.	1.2	9
3322	Memristors and Electrical Memory in Plants. Signaling and Communication in Plants, 2018, , 139-161.	0.5	4
3323	Sandwich synchronization of memristor-based hyperchaos systems with time delays. Advances in Difference Equations, 2018, 2018, .	3.5	5
3324	Dynamics of a physical SBT memristor-based Wien-bridge circuit. Nonlinear Dynamics, 2018, 93, 1681-1693.	2.7	28
3325	Memristor emulator causes dissimilarity on a coupled memristive systems. AIP Conference Proceedings, 2018, , .	0.3	0
3326	A new grounded memristor emulator based on MOSFET-C. AEU - International Journal of Electronics and Communications, 2018, 91, 143-149.	1.7	64
3327	Resistive switching of Cu/Cu2O junction fabricated using simple thermal oxidation at 423 K for memristor application. IOP Conference Series: Materials Science and Engineering, 2018, 290, 012088.	0.3	2
3328	A Simple Piecewise Model of Reset/Set Transitions in Bipolar ReRAM Memristive Devices. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 3469-3480.	3.5	22
3329	Large Memristor Crossbars for Analog Computing. , 2018, , .		14
3330	Input-to-State stability analysis for memristive Cohen-Grossberg-type neural networks with variable time delays. Chaos, Solitons and Fractals, 2018, 114, 364-369.	2.5	16
3331	Alternating chimeras in networks of ephaptically coupled bursting neurons. Chaos, 2018, 28, 083113.	1.0	60
3332	Double compound combination synchronization among eight $\langle i \rangle n \langle i \rangle$ -dimensional chaotic systems. Chinese Physics B, 2018, 27, 080502.	0.7	23
3333	Dynamic Behaviors in Coupled Neuron System with the Excitatory and Inhibitory Autapse under Electromagnetic Induction. Complexity, 2018, 2018, 1-13.	0.9	30
3334	In-situ TEM Characterization of Ultra-robust Memristors Based on Fully Layered Two-dimensional Materials. Microscopy and Microanalysis, 2018, 24, 1886-1887.	0.2	1
3335	SRMC: A Multibit Memristor Crossbar for Self-Renewing Image Mask. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 2830-2841.	2.1	9
3336	Capacitive neural network with neuro-transistors. Nature Communications, 2018, 9, 3208.	5.8	199
3337	Memristor Based on the Contact of Two Metal Balls. IEEE Sensors Journal, 2018, 18, 8045-8052.	2.4	O

#	Article	IF	CITATIONS
3338	Resistive random-access memory based on ratioed memristors. Nature Electronics, 2018, 1, 466-472.	13.1	72
3339	Three-Dimensional Memristor-Based Crossbar Architecture for Capsule Network Implementation. , 2018, , .		4
3340	Multiple coexisting attractors of the serial–parallel memristor-based chaotic system and its adaptive generalized synchronization. Nonlinear Dynamics, 2018, 94, 2785-2806.	2.7	40
3341	Review of Recently Progress on Neural Electronics and Memcomputing Applications in Intrinsic SiOx-Based Resistive Switching Memory. , 2018, , .		2
3342	Handwritten-Digit Recognition by Hybrid Convolutional Neural Network based on HfO2 Memristive Spiking-Neuron. Scientific Reports, 2018, 8, 12546.	1.6	34
3343	A Simpler Memristor Emulator Based on Varactor Diode. Chinese Physics Letters, 2018, 35, 058401.	1.3	11
3344	Spikeâ€Timingâ€Dependent Plasticity in Memristors. , 0, , .		2
3345	A Mixed-Mode Neuron with On-chip Tunability for Generic Use in Memristive Neuromorphic Systems. , 2018, , .		1
3346	A Multi-Scroll Memristive Chaotic System via Fractal Process. , 2018, , .		1
3347	Analysis of memristor-like behaviors in Au/Ti52Cu48Ox/TiAlV structure with gradient elements distribution. Materials Science in Semiconductor Processing, 2018, 87, 167-173.	1.9	1
3348	Resistive switching and impedance characteristics of M/TiO2â^²x/TiO2/M nano-ionic memristor. Solid State Ionics, 2018, 324, 218-225.	1.3	33
3349	Chaos and Symbol Complexity in a Conformable Fractional-Order Memcapacitor System. Complexity, 2018, 2018, 1-15.	0.9	19
3350	Dynamic Analysis of a Bistable Bi-Local Active Memristor and Its Associated Oscillator System. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1850105.	0.7	37
3351	Fully Functional Logicâ€Inâ€Memory Operations Based on a Reconfigurable Finiteâ€State Machine Using a Single Memristor. Advanced Electronic Materials, 2018, 4, 1800189.	2.6	33
3352	Finite-time synchronization of fractional-order memristive recurrent neural networks with discontinuous activation functions. Neurocomputing, 2018, 316, 284-293.	3.5	51
3353	Design of fault-tolerant neuromorphic computing systems. , 2018, , .		14
3354	Write Energy Optimization for STT-MRAM Cache with Data Pattern Characterization. , 2018, , .		2
3355	Finiteâ€time synchronization for memristorâ€based BAM neural networks with stochastic perturbations and timeâ€varying delays. International Journal of Robust and Nonlinear Control, 2018, 28, 5118-5139.	2.1	30

#	Article	IF	CITATIONS
3356	Organic non-volatile memory device based on cellulose fibers. Materials Letters, 2018, 232, 99-102.	1.3	38
3357	A Memristive Neural Networks Described by Differential-Algebraic Systems. , 2018, , .		1
3358	Fractional-order memcapacitor-based Chua's circuit and its chaotic behaviour analysis. , 2018, , .		0
3359	A Memristor-CMOS Hybrid Circuit for Classical Conditioning Reflex. , 2018, , .		1
3360	Building Brain-Inspired Computing Systems: Examining the Role of Nanoscale Devices. IEEE Nanotechnology Magazine, 2018, 12, 19-35.	0.9	30
3361	Seamlessly fused digital-analogue reconfigurable computing using memristors. Nature Communications, 2018, 9, 2170.	5.8	38
3362	Tutorial: Experimental Nonlinear Dynamical Circuit Analysis of a Ferromagnetic Inductor. IEEE Circuits and Systems Magazine, 2018, 18, 28-34.	2.6	5
3363	Redox-based memristive metal-oxide devices. , 2018, , 489-522.		5
3364	In situ generation of silver nanoparticles in PVDF for the development of resistive switching devices. Applied Surface Science, 2018, 455, 418-424.	3.1	17
3365	The nanocoherer: an electrically and mechanically resettable resistive switching device based on gold clusters assembled on paper. Nano Futures, 2018, 2, 011002.	1.0	11
3366	Exploring the Dynamics of Real-World Memristors on the Basis of Circuit Theoretic Model Predictions. IEEE Circuits and Systems Magazine, 2018, 18, 48-76.	2.6	17
3367	Mem-adaptive computing â€" Part I: Theory. , 2018, , .		0
3368	About Fingerprints of Chua's Memristors. IEEE Circuits and Systems Magazine, 2018, 18, 35-47.	2.6	7
3369	Crossbar-Based Hamming Associative Memory with Binary Memristors. Lecture Notes in Computer Science, 2018, , 380-387.	1.0	6
3370	Benchmarking Analogue Performance of Emerging Random Access Memory Technologies. , 2018, , .		2
3371	Analysis and generation of chaos using compositely connected coupled memristors. Chaos, 2018, 28, 063115.	1.0	16
3372	Discreteâ€level memristive circuits for HTMâ€based spatiotemporal data classification system. IET Cyber-Physical Systems: Theory and Applications, 2018, 3, 34-43.	1.9	4
3373	Quasi-Synchronization of Coupled Nonlinear Memristive Neural Networks With Time Delays by Pinning Control. IEEE Access, 2018, 6, 26271-26282.	2.6	15

#	Article	IF	CITATIONS
3374	Energy-Efficient CMOS Memristive Synapses for Mixed-Signal Neuromorphic System-on-a-Chip. , 2018, , .		13
3375	Time-based read circuit for multi-bit memristor memories. , 2018, , .		4
3376	Integrator device with a memristor element. , 2018, , .		2
3377	Robust stability of fractional-order memristor-based Hopfield neural networks with parameter disturbances. Physica A: Statistical Mechanics and Its Applications, 2018, 509, 845-854.	1.2	21
3378	Bifurcation and Periodic Solutions in Memristive Hyperchaotic System. IEEE Access, 2018, 6, 23202-23212.	2.6	3
3379	Memristive Cellular Automata for Modeling of Epileptic Brain Activity. , 2018, , .		6
3380	Integration of Double Barrier Memristor Die with Neuron ASIC for Neuromorphic Hardware Learning. , $2018, , .$		0
3381	Requirements and Challenges for Modelling Redox-based Memristive Devices. , 2018, , .		10
3382	Global Asymptotic Stability and Adaptive Ultimate Mittag–Leffler Synchronization for a Fractional-Order Complex-Valued Memristive Neural Networks With Delays. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 2519-2535.	5.9	91
3383	Dual-Output Operational Transconductance Amplifier-Based Electronically Controllable Memristance Simulator Circuit. Circuits, Systems, and Signal Processing, 2019, 38, 26-40.	1.2	11
3384	Computational thinking and constructionism: creating difference equations in spreadsheets. International Journal of Mathematical Education in Science and Technology, 2019, 50, 779-787.	0.8	8
3385	Exponential Stabilization of Fuzzy Memristive Neural Networks With Hybrid Unbounded Time-Varying Delays. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 739-750.	7.2	67
3386	Memristor-Based Echo State Network With Online Least Mean Square. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 1787-1796.	5.9	78
3387	Event-Based Synchronization Control for Memristive Neural Networks With Time-Varying Delay. IEEE Transactions on Cybernetics, 2019, 49, 3268-3277.	6.2	90
3388	Nonlinear Dynamics in Computational Neuroscience. PoliTO Springer Series, 2019, , .	0.3	4
3389	An adaptive efficient memristive ink drop spread (IDS) computing system. Neural Computing and Applications, 2019, 31, 7733-7754.	3.2	6
3390	The Processing-in-Memory Paradigm: Mechanisms to Enable Adoption. , 2019, , 133-194.		14
3391	Transition from homogeneous to filamentary behavior in ZnO/ZnO-Al thin films. Journal of Alloys and Compounds, 2019, 770, 1200-1207.	2.8	4

#	Article	IF	CITATIONS
3392	Chemically addressed switching measurements in graphene electrode memristive devices using in situ XPS. Faraday Discussions, 2019, 213, 231-244.	1.6	7
3393	Nanowire Sensors in Cancer. Trends in Biotechnology, 2019, 37, 86-99.	4.9	80
3394	Sensing of Resistive RAM., 2019, , 31-45.		2
3395	Neuromorphic computation with spiking memristors: habituation, experimental instantiation of logic gates and a novel sequence-sensitive perceptron model. Faraday Discussions, 2019, 213, 521-551.	1.6	12
3396	Bio-inspired protonic memristor devices based on metal complexes with proton-coupled electron transfer. Faraday Discussions, 2019, 213, 99-113.	1.6	13
3397	Memristor and Memristor Circuit Modelling Based on Methods of Nonlinear System Theory. PoliTO Springer Series, 2019, , 99-132.	0.3	3
3398	Aperiodically Intermittent Control for Quasi-Synchronization of Delayed Memristive Neural Networks: An Interval Matrix and Matrix Measure Combined Method. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 2254-2265.	5.9	101
3399	Exponential synchronization of memristor-based recurrent neural networks with multi-proportional delays. Neural Computing and Applications, 2019, 31, 7907-7920.	3.2	19
3400	Design and Experimental Evolution of Memristor With Only One VDTA and One Capacitor. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2019, 38, 1123-1132.	1.9	51
3401	Experimental Verification of Memristor-Based Material Implication NAND Operation. IEEE Transactions on Emerging Topics in Computing, 2019, 7, 545-552.	3.2	3
3402	Floating Memristor Employing Single MO-OTA with Hard-Switching Behavior. Journal of Circuits, Systems and Computers, 2019, 28, 1950026.	1.0	19
3403	Adjusting Learning Rate of Memristor-Based Multilayer Neural Networks via Fuzzy Method. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2019, 38, 1084-1094.	1.9	102
3404	Design of Memcapacitor Emulator using DVCCTA. Journal of Physics: Conference Series, 2019, 1172, 012104.	0.3	9
3405	Hybrid Control Scheme for Projective Lag Synchronization of Riemann–Liouville Sense Fractional Order Memristive BAM NeuralNetworks with Mixed Delays. Mathematics, 2019, 7, 759.	1.1	114
3407	Memristor-Based Neuromorphic Hardware Improvement for Privacy-Preserving ANN. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2019, 27, 2745-2754.	2.1	14
3408	Dynamical behavior and image encryption application of a memristor-based circuit system. AEU - International Journal of Electronics and Communications, 2019, 110, 152861.	1.7	46
3409	Resistance switching characteristics and mechanisms of MXene/SiO2 structure-based memristor. Applied Physics Letters, 2019, 115, .	1.5	39
3410	Input-Aware Flow-Based Computing on Memristor Crossbars With Applications to Edge Detection. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2019, 9, 580-591.	2.7	11

#	Article	IF	CITATIONS
3411	Modeling the Metal–Insulator Phase Transition in Li _x CoO ₂ for Energy and Information Storage. Advanced Functional Materials, 2019, 29, 1902821.	7.8	40
3412	Robust dissipativity analysis for delayed memristor-based inertial neural network. Neurocomputing, 2019, 366, 340-351.	3.5	12
3413	Non-fragile state estimation for fractional-order delayed memristive BAM neural networks. Neural Networks, 2019, 119, 190-199.	3.3	71
3414	Dissipativity and synchronization control of fractionalâ€order memristive neural networks with reactionâ€diffusion terms. Mathematical Methods in the Applied Sciences, 2019, 42, 7494-7505.	1.2	14
3415	Dimensionality Reduction Analysis for Detecting Initial Effects on Synchronization of Memristor-Coupled System. IEEE Access, 2019, 7, 109689-109698.	2.6	15
3416	A Novel Design of SRAM Using Memristors at 45Ânm Technology. Communications in Computer and Information Science, 2019, , 579-589.	0.4	2
3417	Memristor Based Full Adder Circuit for Better Performance. Transactions on Electrical and Electronic Materials, 2019, 20, 403-410.	1.0	16
3418	A univariate ternary logic and three-valued multiplier implemented in a nano-columnar crystalline zinc oxide memristor. RSC Advances, 2019, 9, 24595-24602.	1.7	6
3419	Processing-in-memory: A workload-driven perspective. IBM Journal of Research and Development, 2019, 63, 3:1-3:19.	3.2	83
3420	Ferroelectric Second-Order Memristor. ACS Applied Materials & Samp; Interfaces, 2019, 11, 32108-32114.	4.0	77
3421	Design of memristor based low power and highly reliable ReRAM cell. Microsystem Technologies, 2022, 28, 793-807.	1.2	11
3422	Experimental studies on the conduction mechanism and electrical properties of the inverted Ba doped ZnO nanoparticles based memristor. Applied Physics Letters, 2019, 115, 073505.	1.5	6
3423	Memristive Synapses and Neurons for Bioinspired Computing. Advanced Electronic Materials, 2019, 5, 1900287.	2.6	135
3424	Mimicking Spike-Timing-Dependent Plasticity with Emulated Memristors. , 2019, , .		2
3425	Memristive Element Functional Model for Computer Based Analysis and Hardware Emulation of Pulsed Neurons Adaptive Networks. , 2019, , .		0
3426	A New Fractional Order Memristance Simulator Circuit Design. , 2019, , .		1
3427	Understanding memristive switching via in situ characterization and device modeling. Nature Communications, 2019, 10, 3453.	5.8	275
3428	Projective Synchronization of Nonidentical Fractional-Order Memristive Neural Networks. Discrete Dynamics in Nature and Society, 2019, 2019, 1-11.	0.5	7

#	Article	IF	CITATIONS
3429	Memristor-Based Loop Filter Design for Phase Locked Loop. Journal of Low Power Electronics and Applications, 2019, 9, 24.	1.3	16
3430	Synchronisation control for a class of complex-valued fractional-order memristor-based delayed neural networks. International Journal of Systems Science, 2019, 50, 2015-2029.	3.7	4
3431	Memristor Emulators for an Adaptive DPE Algorithm: Comparative Study. , 2019, , .		2
3432	Ferroresonance Mitigation in an Inductive Voltage Transformer Using Memristor Emulator., 2019, , .		4
3433	A Pragmatic Gaze on Stochastic Resonance Based Variability Tolerant Memristance Enhancement. , 2019, , .		3
3434	Memristors: A perspective and impact on the electronics industry. , 2019, , .		3
3435	Self-learning perceptron using a digital memristor emulator. , 2019, , .		1
3436	Extreme Multistability with Hidden Attractors in a Simplest Memristor-Based Circuit. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1950086.	0.7	50
3437	Center pulse width modulation implementation based on memristor. AEU - International Journal of Electronics and Communications, 2019 , 111 , 152843 .	1.7	0
3438	Taming Emerging Devices' Variation and Reliability Challenges with Architectural and System Solutions [Invited]., 2019,,.		3
3439	A New Simplified Model for HfO ₂ -Based Memristor., 2019,,.		5
3440	An Ultra-Area-Efficient 1024-Point In-Memory FFT Processor. Micromachines, 2019, 10, 509.	1.4	14
3441	Synchronization of memristive neural networks with leakage delay and parameters mismatch via event-triggered control. Neural Networks, 2019, 119, 178-189.	3.3	107
3442	A Unified Capacitive-Coupled Memristive Model for the Nonpinched Current–Voltage Hysteresis Loop. Nano Letters, 2019, 19, 6461-6465.	4.5	128
3443	Synchronization and stability of delayed fractional-order memristive quaternion-valued neural networks with parameter uncertainties. Neurocomputing, 2019, 363, 321-338.	3.5	54
3444	Delay-dependent criterion for asymptotic stability of a class of fractional-order memristive neural networks with time-varying delays. Neural Networks, 2019, 118, 289-299.	3.3	72
3445	Design and development of memristorâ€based RRAM. IET Circuits, Devices and Systems, 2019, 13, 548-557.	0.9	14
3446	Synaptic learning behavior of a TiO ₂ nanowire memristor. Nanotechnology, 2019, 30, 425202.	1.3	38

#	Article	IF	CITATIONS
3447	Adaptive Control Synchronization of a Novel Memristive Chaotic System for Secure Communication Applications. Inventions, 2019, 4, 30.	1.3	13
3448	Hybrid multisynchronization of coupled multistable memristive neural networks with time delays. Neurocomputing, 2019, 363, 281-294.	3.5	77
3449	Mapping of Boolean Logic Functions onto 3D Memristor Crossbar. , 2019, , .		2
3450	A fully integrated reprogrammable memristor–CMOS system for efficient multiply–accumulate operations. Nature Electronics, 2019, 2, 290-299.	13.1	469
3451	Radiative Thermal Memristor. Physical Review Letters, 2019, 123, 025901.	2.9	54
3452	Oscillatory Circuits Built on Physical SBT Memristor. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1950097.	0.7	6
3453	Effects of Parasitic Fractional Elements to the Dynamics of Memristor. Journal of Electrical and Computer Engineering, 2019, 2019, 1-13.	0.6	3
3454	Mixed H2/Hâ^ž stabilization design for memristive neural networks. Neurocomputing, 2019, 361, 92-99.	3.5	5
3455	Coexisting Attractors and Multistability in a Simple Memristive Wien-Bridge Chaotic Circuit. Entropy, 2019, 21, 678.	1.1	34
3456	Bipolar Cu/HfO2/p++ Si Memristors by Sol-Gel Spin Coating Method and Their Application to Environmental Sensing. Scientific Reports, 2019, 9, 9983.	1.6	33
3457	Quasi-state estimation and quasi-synchronization control of quaternion-valued fractional-order fuzzy memristive neural networks: Vector ordering approach. Applied Mathematics and Computation, 2019, 362, 124572.	1.4	30
3458	An Improved Mapping and Optimization Method for Implication-based Memristive Circuits Using And-Inverter Graph. Journal of Physics: Conference Series, 2019, 1237, 032026.	0.3	1
3459	Hybrid Circuit of Memristor and Complementary Metal-Oxide-Semiconductor for Defect-Tolerant Spatial Pooling with Boost-Factor Adjustment. Materials, 2019, 12, 2122.	1.3	11
3460	Flexible memristorâ€based LUC and its network integration for Boolean logic implementation. IET Nanodielectrics, 2019, 2, 61-69.	2.0	15
3461	A Novel Memristor-CMOS Hybrid Full-Adder and Its Application. Lecture Notes in Computer Science, 2019, , 556-564.	1.0	0
3462	An Improved Memristor-Based Associative Memory Circuit for Full-Function Pavlov Experiment. Lecture Notes in Computer Science, 2019, , 603-610.	1.0	2
3463	Design of a Ternary Logical Circuit Using the Au-DNA-Ag Memristor. Journal of Electronic Materials, 2019, 48, 6261-6268.	1.0	6
3464	Robust Stabilization of Memristor-based Coupled Neural Networks with Time-varying Delays. International Journal of Control, Automation and Systems, 2019, 17, 2666-2676.	1.6	21

#	ARTICLE	IF	CITATIONS
3465	A non-local structural derivative model for memristor. Chaos, Solitons and Fractals, 2019, 126, 169-177.	2.5	4
3466	Polaronic Resistive Switching in Ceriaâ€Based Memory Devices. Advanced Electronic Materials, 2019, 5, 1900271.	2.6	14
3467	Toward Designing Thermally-Aware Memristance Decoder. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 4337-4347.	3.5	1
3468	Memristor Based Pulse Train Generator. Russian Microelectronics, 2019, 48, 255-261.	0.1	5
3469	Quasi-period, periodic bursting and bifurcations in memristor-based FitzHugh-Nagumo circuit. AEU - International Journal of Electronics and Communications, 2019, 110, 152840.	1.7	34
3470	Dynamical nonlinear memory capacitance in biomimetic membranes. Nature Communications, 2019, 10, 3239.	5.8	51
3471	Quantized Single-Ion-Channel Hodgkin-Huxley Model for Quantum Neurons. Physical Review Applied, 2019, 12, .	1.5	6
3472	A memristor-based neural network circuit with synchronous weight adjustment. Neurocomputing, 2019, 363, 114-124.	3.5	22
3473	Characteristics Analysis of the Fractional-Order Chaotic Memristive Circuit Based on Chua's Circuit. Mobile Networks and Applications, 2021, 26, 1862-1870.	2.2	6
3474	Synchronization control for memristive high-order competitive neural networks with time-varying delay. Neurocomputing, 2019, 363, 295-305.	3.5	5
3475	Dissipativity and exponential state estimation for quaternion-valued memristive neural networks. Neurocomputing, 2019, 363, 236-245.	3. 5	18
3476	A Family of Stateful Memristor Gates for Complete Cascading Logic. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 4348-4355.	3.5	58
3477	Comment on â€~If it's pinched it's a memristor'. Semiconductor Science and Technology, 2019, 34, 098001.	1.0	8
3478	A neural memristor system with infinite or without equilibrium. European Physical Journal: Special Topics, 2019, 228, 1527-1534.	1.2	5
3479	On the Application of a Diffusive Memristor Compact Model to Neuromorphic Circuits. Materials, 2019, 12, 2260.	1.3	3
3480	Adaptive synchronization of memristor-based complex-valued neural networks with time delays. Neurocomputing, 2019, 364, 119-128.	3.5	11
3481	A spintronic memristor crossbar array for fuzzy control with application in the water valves control system. Measurement and Control, 2019, 52, 418-431.	0.9	3
3482	NiTi memristive behavior. Microelectronic Engineering, 2019, 216, 111026.	1.1	1

#	Article	IF	CITATIONS
3483	Review on Various Memristor Models, Characteristics, Potential Applications, and Future Works. Transactions on Electrical and Electronic Materials, 2019, 20, 289-298.	1.0	51
3484	A Memristor-Based In-Memory Computing Network for Hamming Code Error Correction. IEEE Electron Device Letters, 2019, 40, 1080-1083.	2.2	17
3485	Passivity and Passification of Dynamic Memristor Neural Networks with Delays Operating in the Flux-Charge Domain. Optical Memory and Neural Networks (Information Optics), 2019, 28, 65-81.	0.4	0
3486	Wavelength dependent light tunable resistive switching graphene oxide nonvolatile memory devices. Carbon, 2019, 153, 81-88.	5.4	30
3487	Transient and steady coexisting attractors in a new memristor-based 4-D chaotic circuit. AEU - International Journal of Electronics and Communications, 2019, 108, 262-274.	1.7	19
3488	Multilevel Bipolar Memristor Model Considering Deviations of Switching Parameters in the Verilog-A Language. Russian Microelectronics, 2019, 48, 131-142.	0.1	12
3489	Better Performance of Memristive Convolutional Neural Network Due to Stochastic Memristors. Lecture Notes in Computer Science, 2019, , 39-47.	1.0	2
3490	Synchronization control of quaternion-valued memristive neural networks with and without event-triggered scheme. Cognitive Neurodynamics, 2019, 13, 489-502.	2.3	26
3491	Electrically-generated memristor based on inkjet printed silver nanoparticles. Nanoscale Advances, 2019, 1, 2990-2998.	2.2	22
3492	Memristive Logic in Crossbar Memory Arrays: Variability-Aware Design for Higher Reliability. IEEE Nanotechnology Magazine, 2019, 18, 635-646.	1.1	20
3493	Bond-Graph Input-State-Output Port-Hamiltonian Formulation of Memristive Networks for emulation of Josephson Junction Circuits. Journal of Physics: Conference Series, 2019, 1322, 012040.	0.3	2
3494	OCTAN: An On-Chip Training Algorithm for Memristive Neuromorphic Circuits. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 4687-4698.	3.5	12
3495	Traveling patterns in a network of memristor-based oscillators with extreme multistability. European Physical Journal: Special Topics, 2019, 228, 2123-2131.	1.2	26
3496	Parameter estimation in a new chaotic memristive system using ions motion optimization. European Physical Journal: Special Topics, 2019, 228, 2133-2145.	1.2	5
3497	Analysis and electronic implementation of an absolute memristor autonomous Van der Pol-Duffing circuit. European Physical Journal: Special Topics, 2019, 228, 2287-2299.	1.2	8
3498	A memristor-based transient chaotic neural network model and its application. Journal of Applied Physics, 2019, 126, .	1.1	6
3499	Hybrid Memristor-CMOS Obfuscation Against Untrusted Foundries. , 2019, , .		12
3500	An overview of memristive cryptography. European Physical Journal: Special Topics, 2019, 228, 2301-2312.	1.2	17

#	ARTICLE	IF	CITATIONS
3501	Ferroelectric Tunnel Junctions: Modulations on the Potential Barrier. Advanced Materials, 2020, 32, e1904123.	11.1	179
3502	Synchronization of memristor-based chaotic systems by a simplified control and its application to image en-/decryption using DNA encoding. Chinese Journal of Physics, 2019, 62, 374-387.	2.0	16
3503	Infinitely many coexisting attractors of a dual memristive Shinriki oscillator and its FPGA digital implementation. Chinese Journal of Physics, 2019, 62, 342-357.	2.0	22
3504	Dynamical analysis, sliding mode synchronization of a fractional-order memristor Hopfield neural network with parameter uncertainties and its non-fractional-order FPGA implementation. European Physical Journal: Special Topics, 2019, 228, 2065-2080.	1.2	36
3505	Novel criteria of ISS analysis for delayed memristive BAM neural networks. European Physical Journal: Special Topics, 2019, 228, 2111-2122.	1.2	3
3506	Infinitely many hidden attractors in a new fractional-order chaotic system based on a fracmemristor. European Physical Journal: Special Topics, 2019, 228, 2185-2196.	1.2	26
3507	Memristor-based novel complex-valued chaotic system and its projective synchronisation using nonlinear active control technique. European Physical Journal: Special Topics, 2019, 228, 2197-2214.	1.2	12
3508	Effect of aluminum interfacial layer in a niobium oxide based resistive RAM. Solid State Electronics Letters, 2019, 1, 52-57.	1.0	4
3509	A chaotic circuit constructed by a memristor, a memcapacitor and a meminductor. Chaos, 2019, 29, 101101.	1.0	54
3510	Memristive Characteristic of an Amorphous Ga-Sn-O Thin-Film Device with Double Layers of Different Oxygen Density. Materials, 2019, 12, 3236.	1.3	9
3511	Temporal data classification and forecasting using a memristor-based reservoir computing system. Nature Electronics, 2019, 2, 480-487.	13.1	309
3512	Linear Optimization for Memristive Device in Neuromorphic Hardware. , 2019, , .		7
3513	Electroforming-free Memristors for Hardware Security Primitives. , 2019, , .		3
3514	Coexistence of attractors in a simple chaotic oscillator with fractional-order-memristor component: analysis, FPGA implementation, chaos control and synchronization. European Physical Journal: Special Topics, 2019, 228, 2035-2051.	1.2	28
3515	A new chaotic oscillator containing generalised memristor, single op-amp and RLC with chaos suppression and an application for the random number generation. European Physical Journal: Special Topics, 2019, 228, 2233-2245.	1.2	12
3516	A New Memristive Chaotic System and the Generated Random Sequence. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2019, E102.A, 665-667.	0.2	3
3517	Switching Characteristics of a Locally-Active Memristor with Binary Memories. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1930030.	0.7	22
3518	Reviewâ€"Beyond the Highs and Lows: A Perspective on the Future of Dielectrics Research for Nanoelectronic Devices. ECS Journal of Solid State Science and Technology, 2019, 8, N159-N185.	0.9	17

#	Article	IF	CITATIONS
3519	A High Spectral Entropy (SE) Memristive Hidden Chaotic System with Multi-Type Quasi-Periodic and its Circuit. Entropy, 2019, 21, 1026.	1.1	22
3520	Experimental Research on the Temperature Field Distribution of Circular CFST Section. IOP Conference Series: Earth and Environmental Science, 2019, 242, 062043.	0.2	0
3521	Causality-Based Attribute Weighting via Information Flow and Genetic Algorithm for Naive Bayes Classifier. IEEE Access, 2019, 7, 150630-150641.	2.6	18
3522	Can the emergency department sustain the first strike? Experience from the 2016 earthquake in Tainan. Hong Kong Journal of Emergency Medicine, 2019, 26, 263-267.	0.4	1
3523	A Multi-level Memristor Based on Al-Doped HfO2 Thin Film. Nanoscale Research Letters, 2019, 14, 177.	3.1	38
3524	Electrochemical memristive devices based on submonolayer metal deposition. APL Materials, 2019, 7, 101121.	2.2	8
3525	Synchronization in a network of chaotic memristive jerk oscillators. European Physical Journal: Special Topics, 2019, 228, 2147-2155.	1.2	2
3526	Organic resistive switching device based on cellulose-gelatine microcomposite fibers. Journal of Materials Science: Materials in Electronics, 2019, 30, 21288-21296.	1.1	22
3527	Memristor based Relaxation Oscillator for Biomedical applications. , 2019, , .		4
3528	A Novel Universal Interface for Constructing Memory Elements for Circuit Applications. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 4793-4806.	3.5	27
3529	Complex behaviors in a new 4D memristive hyperchaotic system without equilibrium and its microcontroller-based implementation. European Physical Journal: Special Topics, 2019, 228, 2171-2184.	1.2	21
3530	Environmentally Robust Memristor Enabled by Leadâ€Free Double Perovskite for Highâ€Performance Information Storage. Small, 2019, 15, e1905731.	5.2	123
3531	Memristor-Based AES Key Generation for Low Power IoT Hardware Security Modules., 2019,,.		3
3532	Analysis and Verification of a Novel Single-Photon Memristor. IEEE Access, 2019, 7, 143185-143189.	2.6	0
3533	Physical Insights into the Transport Properties of RRAMs Based on Transition Metal Oxides., 2019,,.		1
3534	Chimera in a network of memristor-based Hopfield neural network. European Physical Journal: Special Topics, 2019, 228, 2023-2033.	1.2	36
3535	Turing patterns via pinning control in the simplest memristive cellular nonlinear networks. Chaos, 2019, 29, 103145.	1.0	11
3536	Nondestructive Reading and Refreshment Circuit for Memristor-based Neuromorphic Synapse., 2019,,.		2

#	Article	IF	CITATIONS
3537	A Compact Memristor-based GAN Architecture with a Case Study on Single Image Super-Resolution. , 2019, , .		2
3538	Memristor Based Autoencoder for Unsupervised Real-Time Network Intrusion and Anomaly Detection. , 2019, , .		9
3539	Complicated dynamics in a memristor-based RLC circuit. European Physical Journal: Special Topics, 2019, 228, 1925-1941.	1.2	8
3540	Memristor reduces conduction failure of action potentials along axon with Hopf bifurcation. European Physical Journal: Special Topics, 2019, 228, 2053-2063.	1.2	6
3541	Exponential synchronization of memristor-based delayed neutral-type neural networks with Lévy noise via impulsive control. European Physical Journal: Special Topics, 2019, 228, 2157-2170.	1.2	1
3542	Effects of memristor-based coupling in the ensemble of FitzHugh–Nagumo elements. European Physical Journal: Special Topics, 2019, 228, 2325-2337.	1.2	15
3543	A Nonvolatile Fractional Order Memristor Model and its Complex Dynamics. Entropy, 2019, 21, 955.	1.1	12
3545	Minireview on signal exchange between nonlinear circuits and neurons via field coupling. European Physical Journal: Special Topics, 2019, 228, 1907-1924.	1.2	70
3546	Detecting bifurcation points in a memristive neuron model. European Physical Journal: Special Topics, 2019, 228, 1943-1950.	1.2	8
3547	Coexistence of periodic and strange attractor in a memristive band pass filter circuit with amplitude control. European Physical Journal: Special Topics, 2019, 228, 2011-2021.	1.2	11
3548	Effects of electromagnetic induction on signal propagation and synchronization in multilayer Hindmarsh-Rose neural networks. European Physical Journal: Special Topics, 2019, 228, 2455-2464.	1.2	14
3549	Cascaded Neural Network for Memristor based Neuromorphic Computing. , 2019, , .		1
3550	Robust Memristor Networks for Neuromorphic Computation Applications. Materials, 2019, 12, 3573.	1.3	7
3551	CMOS Compatible Hf 0.5 Zr 0.5 O 2 Ferroelectric Tunnel Junctions for Neuromorphic Devices. Advanced Intelligent Systems, 2019, 1, 1900034.	3.3	11
3552	Synchronization of delayed memristive neural networks by establishing novel Lyapunov functional. Neurocomputing, 2019, 369, 80-91.	3.5	8
3553	Stuck-at-OFF Fault Analysis in Memristor-Based Architecture for Synchronization., 2019, , .		1
3554	Dynamics and Synchronization of a Memristor-Based Chaotic System with No Equilibrium. Complexity, 2019, 2019, 1-11.	0.9	1
3555	Multiscale Modeling for Application-Oriented Optimization of Resistive Random-Access Memory. Materials, 2019, 12, 3461.	1.3	19

#	Article	IF	CITATIONS
3556	An Optimized Memristor-Based Hyperchaotic System With Controlled Hidden Attractors. IEEE Access, 2019, 7, 124641-124646.	2.6	13
3557	Cases Study of Inputs Split Based Calibration Method for RRAM Crossbar. IEEE Access, 2019, 7, 141792-141800.	2.6	2
3558	Bridging Biological and Artificial Neural Networks with Emerging Neuromorphic Devices: Fundamentals, Progress, and Challenges. Advanced Materials, 2019, 31, e1902761.	11.1	418
3559	Electrical Tunability of Domain Wall Conductivity in LiNbO ₃ Thin Films. Advanced Materials, 2019, 31, e1902890.	11.1	61
3560	Three-Dimensional Simulation of the Thermo-Mechanical Interaction between the Micro-Bump Joints and Cu Protrusion in Cu-Filled TSVs of the High Bandwidth Memory (HBM) Structure., 2019,,.		2
3561	Spiking activities in chain neural network driven by channel noise with field coupling. Nonlinear Dynamics, 2019, 95, 3237-3247.	2.7	76
3562	Memristor-based Systems: Nonlinearity, Dynamics and Applications. European Physical Journal: Special Topics, 2019, 228, 1903-1906.	1.2	3
3563	Oxygen migration around the filament region in HfOx memristors. AIP Advances, 2019, 9, .	0.6	8
3564	Artificial synaptic device based on a multiferroic heterostructure. Journal Physics D: Applied Physics, 2019, 52, 465303.	1.3	7
3565	Realizing an Isotropically Coercive Magnetic Layer for Memristive Applications by Analogy to Dry Friction. Physical Review Applied, 2019, 12, .	1.5	7
3566	Delayed dynamics in an electronic relaxation oscillator. Physical Review E, 2019, 100, 032224.	0.8	9
3567	New band-pass and band-stop filters with three memory devices. , 2019, , .		1
3568	An Ultra-Efficient Memristor-Based DNN Framework with Structured Weight Pruning and Quantization Using ADMM. , 2019 , , .		36
3569	Resistance Switching Statistics and Mechanisms of Pt Dispersed Silicon Oxide-Based Memristors. Micromachines, 2019, 10, 369.	1.4	7
3570	Complex dynamical behavior in memristor–capacitor systems. Nonlinear Dynamics, 2019, 98, 517-537.	2.7	13
3571	Top Management Team Characteristics and Financial Reporting Quality. Accounting Review, 2019, 94, 349-375.	1.7	68
3572	Control Design for Targeting Dynamics of Memristor Murali-Lakshmanan-Chua Circuit., 2019, , .		7
3573	Finite-time synchronization of memristive neural networks with parameter uncertainties via aperiodically intermittent adjustment. Physica A: Statistical Mechanics and Its Applications, 2019, 534, 122258.	1.2	15

#	Article	IF	CITATIONS
3574	On the fractional domain generalization of memristive parametric oscillators. Cogent Engineering, 2019, 6, .	1.1	3
3575	Dissipativity analysis of neutral-type memristive neural network with two additive time-varying and leakage delays. Advances in Difference Equations, 2019, 2019, .	3.5	2
3576	Implementation of OTA-based Memristor Emulator for Adjusting Frequency., 2019,,.		1
3577	H _{â^ž} State Estimation of Memristor-based Recurrent Neural Networks with Mixed Delay. , 2019, , .		1
3578	Memristive Synaptic Circuits for Deep Convolutional Neural Networks., 2019,,.		1
3579	Memristors as Adjustable Boundaries for an Analog Implementation of Decision Trees. , 2019, , .		4
3580	Selective Sensitization of Useless Sneak-Paths for Test Optimization in Memristor-Arrays. , 2019, , .		2
3581	Properties of TiO ₂ /TiO _{<i>x</i>} Active Layers and Fabrication Resistive Switching Device. International Journal of Nanoscience, 2019, 18, 1940085.	0.4	0
3582	Simulation based comparison between a transversal and a tangential memristor model with a capacitance in parallel. PLoS ONE, 2019, 14, e0221533.	1,1	6
3583	Non-ideal memristor synapse-coupled bi-neuron Hopfield neural network: Numerical simulations and breadboard experiments. AEU - International Journal of Electronics and Communications, 2019, 111, 152894.	1.7	64
3584	Electronic synapses with near-linear weight update using MoS2/graphene memristors. Applied Physics Letters, 2019, 115 , .	1.5	52
3585	Dissipativity Analysis of Memristor-Based Fractional-Order Hybrid BAM Neural Networks with Time Delays. International Journal of Nonlinear Sciences and Numerical Simulation, 2019, 20, 773-785.	0.4	4
3586	Novel design for Memristorâ€based <i>n</i> to 1 multiplexer using new IMPLY logic approach. IET Circuits, Devices and Systems, 2019, 13, 647-655.	0.9	4
3587	Habituation characteristic implementation by synapse-like device based on memristor. , 2019, , .		1
3588	Simulation of Low-Pass Filter Circuit Based on Tiox-Based Memristive Device., 2019, , .		1
3589	Neuromorphic Spiking Neural Networks and Their Memristor-CMOS Hardware Implementations. Materials, 2019, 12, 2745.	1.3	71
3590	Synchronization of state-switching hopfield-type neural networks: A quantized level set approach. Chaos, Solitons and Fractals, 2019, 129, 16-24.	2.5	1
3591	A Current Attenuator for Efficient Memristive Crossbars Read-Out. , 2019, , .		3

#	Article	IF	CITATIONS
3592	Taxicab geometry in table of higher-order elements. Nonlinear Dynamics, 2019, 98, 623-636.	2.7	8
3593	Two-Dimensional Brain Microtubule Structures Behave as Memristive Devices. Scientific Reports, 2019, 9, 12398.	1.6	21
3594	Analog simulator of integro-differential equations with classical memristors. Scientific Reports, 2019, 9, 12928.	1.6	15
3595	Implementation of All 27 Possible Univariate Ternary Logics With a Single ZnO Memristor. IEEE Transactions on Electron Devices, 2019, 66, 4710-4715.	1.6	15
3596	A new memristive model with complex variables and its generalized complex synchronizations with time lag. Results in Physics, 2019, 15, 102619.	2.0	2
3597	Regulating firing rates in a neural circuit by activating memristive synapse with magnetic coupling. Nonlinear Dynamics, 2019, 98, 971-984.	2.7	27
3598	Programmable, electroforming-free TiO _x /TaO _x heterojunction-based non-volatile memory devices. Nanoscale, 2019, 11, 18159-18168.	2.8	19
3599	Excitatory electromagnetic induction current enhances coherence resonance of the FitzHugh–Nagumo neuron. International Journal of Modern Physics B, 2019, 33, 1950242.	1.0	10
3600	Memristive Quantum Computing Simulator. IEEE Nanotechnology Magazine, 2019, 18, 1015-1022.	1.1	8
3601	Bifurcation analysis of a fractional order time-delay Chua's circuit based on coupled memristors. Modern Physics Letters B, 2019, 33, 1950366.	1.0	3
3602	Asymmetry Switching Behavior of the Binary Memristor. IETE Journal of Research, 2019, , 1-9.	1.8	0
3603	Finite/fixed-time synchronization control of coupled memristive neural networks. Journal of the Franklin Institute, 2019, 356, 9928-9952.	1.9	32
3604	A Review: Preparation, Performance, and Applications of Silicon Oxynitride Film. Micromachines, 2019, 10, 552.	1.4	48
3605	Resistive switching memory utilizing water and titanium dioxide thin film Schottky diode. Journal of Materials Science: Materials in Electronics, 2019, 30, 18744-18752.	1.1	10
3606	Field coupling-induced synchronization via a capacitor and inductor. Chinese Journal of Physics, 2019, 62, 9-25.	2.0	14
3607	Emerging synaptic devices: from two-terminal memristors to multiterminal neuromorphic transistors. Materials Today Nano, 2019, 8, 100059.	2.3	56
3608	New Design of PI Regulator Circuit Based on Three-Terminal Memristors. IEEE Access, 2019, 7, 127703-127712.	2.6	1
3609	Compensating Circuit to Reduce the Impact of Wire Resistance in a Memristor Crossbar-Based Perceptron Neural Network. Micromachines, 2019, 10, 671.	1.4	9

#	Article	IF	CITATIONS
3610	Finite-time projective synchronization of fractional-order complex-valued memristor-based neural networks with delay. Chaos, Solitons and Fractals, 2019, 128, 176-190.	2.5	29
3611	Design Space Evaluation of a Memristor Crossbar Based Multilayer Perceptron for Image Processing. , 2019, , .		1
3612	The Missing Applications Found: Robust Design Techniques and Novel Uses of Memristors. , 2019, , .		7
3613	Fabrication and Performance of Hybrid ReRAM-CMOS Circuit Elements for Dynamic Neural Networks. , 2019, , .		9
3614	Fixed-time projective synchronization of memristive neural networks with discrete delay. Physica A: Statistical Mechanics and Its Applications, 2019, 534, 122248.	1.2	25
3615	Interfacial redox processes in memristive devices based on valence change and electrochemical metallization. Faraday Discussions, 2019, 213, 41-52.	1.6	18
3616	Neuronal dynamics in HfO _x /AlO _y -based homeothermic synaptic memristors with low-power and homogeneous resistive switching. Nanoscale, 2019, 11, 237-245.	2.8	93
3617	The Memristor: Theory and Realization. SpringerBriefs in Applied Sciences and Technology, 2019, , 11-24.	0.2	0
3618	Synaptic plasticity, metaplasticity and memory effects in hybrid organic–inorganic bismuth-based materials. Nanoscale, 2019, 11, 1080-1090.	2.8	36
3619	Synapse behavior characterization and physical mechanism of a TiN/SiO _x /p-Si tunneling memristor device. Journal of Materials Chemistry C, 2019, 7, 1561-1567.	2.7	34
3620	Theoretical framework of the thermal memristor via a solid-state phase change material. Journal of Applied Physics, 2019, 125, 025109.	1.1	11
3621	Adaptive threshold in TiO ₂ -based synapses. Journal Physics D: Applied Physics, 2019, 52, 125401.	1.3	6
3622	Memristive Neural Networks: A Neuromorphic Paradigm for Extreme Learning Machine. IEEE Transactions on Emerging Topics in Computational Intelligence, 2019, 3, 15-23.	3.4	12
3623	Build reliable and efficient neuromorphic design with memristor technology. , 2019, , .		17
3624	Highly reliable multilevel resistive switching in a nanoparticulated In ₂ O ₃ thin-film memristive device. Journal Physics D: Applied Physics, 2019, 52, 175306.	1.3	23
3625	Fault tolerance in neuromorphic computing systems. , 2019, , .		27
3626	Results on a Novel Piecewise-Linear Memristor-Based Chaotic System. Complexity, 2019, 2019, 1-6.	0.9	4
3627	An accurate and generic window function for nonlinear memristor models. Journal of Computational Electronics, 2019, 18, 640-647.	1.3	35

#	Article	IF	CITATIONS
3628	Improved Learning Experience Memristor Model and Application as Neural Network Synapse. IEEE Access, 2019, 7, 15262-15271.	2.6	17
3629	Nonvolatile Memories Based on Graphene and Related 2D Materials. Advanced Materials, 2019, 31, e1806663.	11.1	230
3630	A Spin–Orbitâ€Torque Memristive Device. Advanced Electronic Materials, 2019, 5, 1800782.	2.6	51
3631	Chaotic oscillator based on memcapacitor and meminductor. Nonlinear Dynamics, 2019, 96, 161-173.	2.7	46
3632	The amplitude, frequency and parameter space boosting in a memristor–meminductor-based circuit. Nonlinear Dynamics, 2019, 96, 389-405.	2.7	89
3633	A universal emulator for memristor, memcapacitor, and meminductor and its chaotic circuit. Chaos, 2019, 29, 013141.	1.0	139
3634	Introduction to Hybrid Intelligent Networks. , 2019, , .		18
3635	Schottky diode based resistive switching device based on ZnO/PEDOT:PSS heterojunction to reduce sneak current problem. Journal of Materials Science: Materials in Electronics, 2019, 30, 4607-4617.	1.1	29
3636	Input-to-state stability analysis for memristive BAM neural networks with variable time delays. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 1143-1150.	0.9	17
3637	A Novel Memductor-Based Chaotic System and Its Applications in Circuit Design and Experimental Validation. Complexity, 2019, 2019, 1-17.	0.9	4
3638	Bio-realistic synaptic characteristics in the cone-shaped ZnO memristive device. NPG Asia Materials, 2019, 11, .	3.8	55
3639	Exponential Synchronization of Inertial Memristor-Based Neural Networks with Time Delay Using Average Impulsive Interval Approach. Neural Processing Letters, 2019, 50, 2053-2071.	2.0	18
3640	Dynamical transitions of the quasi-periodic plasma model. Nonlinear Dynamics, 2019, 96, 323-338.	2.7	7
3641	Fully "Erase-free―Multi-Bit Operation in HfO ₂ -Based Resistive Switching Device. ACS Applied Materials & Device. ACS Applied Materials & Device. ACS Applied Materials & Device. ACS	4.0	13
3642	Memristive biosensors based on full-size antibodies and antibody fragments. Sensors and Actuators B: Chemical, 2019, 286, 346-352.	4.0	11
3643	A novel memristive 6D hyperchaotic autonomous system with hidden extreme multistability. Chaos, Solitons and Fractals, 2019, 120, 100-115.	2.5	113
3644	Fixed-time synchronization of quaternion-valued memristive neural networks with time delays. Neural Networks, 2019, 113, 1-10.	3.3	100
3645	A memristor-based convolutional neural network with full parallelization architecture. IEICE Electronics Express, 2019, 16, 20181034-20181034.	0.3	12

#	ARTICLE	IF	CITATIONS
3646	Recent Advances of Quantum Conductance in Memristors. Advanced Electronic Materials, 2019, 5, 1800854.	2.6	44
3647	Impulsive anti-synchronization control for fractional-order chaotic circuit with memristor. Indian Journal of Physics, 2019, 93, 1187-1194.	0.9	17
3648	Summary of the Faraday Discussion on New memory paradigms: memristive phenomena and neuromorphic applications. Faraday Discussions, 2019, 213, 579-587.	1.6	14
3649	Effect of In/Zn Ratios on Resistive Switching Behavior of IZO/TiO 2 Thin Film Devices. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900018.	0.8	2
3650	Dynamical investigation and chaotic associated behaviors of memristor Chua's circuit with a non-ideal voltage-controlled memristor and its application to voice encryption. AEU - International Journal of Electronics and Communications, 2019, 107, 183-191.	1.7	24
3651	Resistive switching device based on water and zinc oxide heterojunction for soft memory applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 246, 1-6.	1.7	20
3652	Neuromemrisitive Architecture of HTM with On-Device Learning and Neurogenesis. ACM Journal on Emerging Technologies in Computing Systems, 2019, 15, 1-24.	1.8	12
3653	New Results of Finite-Time Synchronization via Piecewise Control for Memristive Cohen-Grossberg Neural Networks With Time-Varying Delays. IEEE Access, 2019, 7, 79173-79185.	2.6	2
3654	Memristors for Programmable Circuits Controlled by Embedded Systems. , 2019, , .		3
3655	Stability analysis of fractional order memristive discontinuous neural networks with partial state control. Physica A: Statistical Mechanics and Its Applications, 2019, 531, 121756.	1.2	8
3656	Bursting oscillations and coexisting attractors in a simple memristor-capacitor-based chaotic circuit. Nonlinear Dynamics, 2019, 97, 1477-1494.	2.7	88
3657	Laser-Fabricated Reduced Graphene Oxide Memristors. Nanomaterials, 2019, 9, 897.	1.9	52
3658	Analysis of Memory Matrices with HfO2 Memristors in a PSpice Environment. Electronics (Switzerland), 2019, 8, 383.	1.8	26
3659	RRAM/memristor for computing. , 2019, , 539-583.		4
3660	A third-order memristive Wien-bridge circuit and its integrable deformation. Pramana - Journal of Physics, 2019, 93, 1.	0.9	10
3661	VLSI-SoC: Design and Engineering of Electronics Systems Based on New Computing Paradigms. IFIP Advances in Information and Communication Technology, 2019, , .	0.5	1
3662	Optimizing Performance and Energy Overheads Due to Fanout in In-Memory Computing Systems. IFIP Advances in Information and Communication Technology, 2019, , 147-166.	0.5	5
3663	On Learning With Nonlinear Memristor-Based Neural Network and its Replication. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 3906-3916.	3.5	10

#	Article	IF	CITATIONS
3664	An efficient Verilog-A memristor model implementation: simulation and application. Journal of Computational Electronics, 2019, 18, 1055-1064.	1.3	23
3666	Passivity and passification of memristive neural networks with leakage term and time-varying delays. Applied Mathematics and Computation, 2019, 361, 294-310.	1.4	52
3667	Multi-Level Capacitive Memory Effect in Metal/Oxide/Floating-Schottky Junction. Journal of the Korean Physical Society, 2019, 74, 979-983.	0.3	1
3668	Percolation Threshold Enables Optical Resistiveâ€Memory Switching and Lightâ€Tuneable Synaptic Learning in Segregated Nanocomposites. Advanced Electronic Materials, 2019, 5, 1900197.	2.6	24
3669	Lag Exponential Synchronization of Delayed Memristor-Based Neural Networks via Robust Analysis. IEEE Access, 2019, 7, 173-182.	2.6	15
3670	Dynamic Behaviors Analysis of a Chaotic Circuit Based on a Novel Fractional-Order Generalized Memristor. Complexity, 2019, 2019, 1-15.	0.9	2
3671	Memristors with organicâ€inorganic halide perovskites. InformaÄnÃ-Materiály, 2019, 1, 183-210.	8.5	111
3672	Memristor: Modeling and Research of Information Properties. Springer Proceedings in Complexity, 2019, , 229-238.	0.2	3
3673	Electronically tunable memristor based on VDCC. AEU - International Journal of Electronics and Communications, 2019, 107, 282-290.	1.7	45
3674	General fractional order mem-elements mutators. Microelectronics Journal, 2019, 90, 211-221.	1.1	21
3675	Parasitic Memcapacitor Effects on HP TiO ₂ Memristor Dynamics. IEEE Access, 2019, 7, 59825-59831.	2.6	14
3676	Study of Recall Time of Associative Memory in a Memristive Hopfield Neural Network. IEEE Access, 2019, 7, 58876-58882.	2.6	11
3677	Synaptic and Fast Switching Memristance in Porous Silicon-Based Structures. Nanomaterials, 2019, 9, 825.	1.9	11
3678	Fractional-order cubic nonlinear flux-controlled memristor: theoretical analysis, numerical calculation and circuit simulation. Nonlinear Dynamics, 2019, 97, 33-44.	2.7	20
3679	Global asymptotic synchronization of impulsive fractional-order complex-valued memristor-based neural networks with time varying delays. Communications in Nonlinear Science and Numerical Simulation, 2019, 78, 104869.	1.7	42
3680	Detecting Variable Resistance by Fluorescence Intensity Ratio Technology. Sensors, 2019, 19, 2400.	2.1	2
3681	SAID: A Supergate-Aided Logic Synthesis Flow for Memristive Crossbars. , 2019, , .		8
3682	Solutionâ€Processed Polymer Thinâ€Film Memristors with an Electrochromic Feature and Frequencyâ€Dependent Synaptic Plasticity. Advanced Intelligent Systems, 2019, 1, 1900022.	3.3	14

#	Article	IF	Citations
3683	Finite-time projective synchronization of memristor-based neural networks with leakage and time-varying delays. Physica A: Statistical Mechanics and Its Applications, 2019, 531, 121788.	1.2	13
3684	A Memristive Switching Uncertainty Model. IEEE Transactions on Electron Devices, 2019, 66, 2946-2953.	1.6	14
3685	Nonlinear control scheme for general decay projective synchronization of delayed memristor-based BAM neural networks. Neurocomputing, 2019, 357, 282-291.	3.5	22
3686	Adaptive sparse coding based on memristive neural network with applications. Cognitive Neurodynamics, 2019, 13, 475-488.	2.3	23
3687	Mean-square Stability in Lagrange Sense for Stochastic Memristive Neural Networks with Leakage Delay. International Journal of Control, Automation and Systems, 2019, 17, 2145-2158.	1.6	7
3688	Wave Computing with Passive Memristive Networks. , 2019, , .		10
3689	Multiple Pinch-Off Points in Memristive Equations: Analysis and Experiments. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 3052-3063.	3.5	16
3690	Artificial neural networks enabled by nanophotonics. Light: Science and Applications, 2019, 8, 42.	7.7	189
3691	Nanoionic Resistiveâ€Switching Devices. Advanced Electronic Materials, 2019, 5, 1900184.	2.6	41
3692	Analysis of the Memristor-Based Crossbar Synapse for Neuromorphic Systems. Journal of Nanoscience and Nanotechnology, 2019, 19, 6703-6709.	0.9	4
3693	Edge of Chaos in Nanoscale Memristor CNN. , 2019, , .		4
3694	Hybrid CMOS-Memristive Convolutional computation for on-chip learning. Neurocomputing, 2019, 355, 48-56.	3.5	15
3695	An excellent pH-controlled resistive switching memory device based on self-colored (C ₇ H ₇ O ₄ N) _n extracted from a lichen plant. Journal of Materials Chemistry C, 2019, 7, 7593-7600.	2.7	31
3696	Extreme multistability in a new hyperchaotic meminductive circuit and its circuit implementation. European Physical Journal Plus, 2019, 134, 1.	1.2	23
3697	Exploring Memristor Multi-Level Tuning Dependencies on the Applied Pulse Properties via a Low Cost Instrumentation Setup. IEEE Access, 2019, 7, 59413-59421.	2.6	24
3698	Semi-Explicit Composition Methods in Memcapacitor Circuit Simulation. International Journal of Embedded and Real-Time Communication Systems, 2019, 10, 37-52.	0.3	16
3700	Unstable Limit Cycles and Singular Attractors in a Two-Dimensional Memristor-Based Dynamic System. Entropy, 2019, 21, 415.	1.1	8
3701	Emerging applications using metal-oxide semiconductor thin-film devices. Japanese Journal of Applied Physics, 2019, 58, 090503.	0.8	34

#	Article	IF	CITATIONS
3702	Memristors for Hardware Security Applications. Advanced Electronic Materials, 2019, 5, 1800872.	2.6	35
3703	Finite-time synchronization of memristor-based complex-valued neural networks with time delays. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 2255-2263.	0.9	23
3704	On the Fractional-Order 3D \hat{a} — $\langle sub \rangle \langle i \rangle n \langle j \rangle \langle sub \rangle$ Memristor $\langle i \rangle$ -LC $\langle j \rangle$ Circuit Network Model. Electric Power Components and Systems, 2019, 47, 537-550.	1.0	2
3705	Fixed-time synchronization of the impulsive memristor-based neural networks. Communications in Nonlinear Science and Numerical Simulation, 2019, 77, 40-53.	1.7	49
3706	A Unified Framework for Training, Mapping and Simulation of ReRAM-Based Convolutional Neural Network Acceleration. IEEE Computer Architecture Letters, 2019, 18, 63-66.	1.0	7
3707	Multistability in a physical memristor-based modified Chua's circuit. Chaos, 2019, 29, 043114.	1.0	20
3708	A new fixed-time stability theorem and its application to the synchronization control of memristive neural networks. Neurocomputing, 2019, 349, 290-300.	3.5	59
3709	Memristor-CMOS Hybrid Circuit for Temporal-Pooling of Sensory and Hippocampal Responses of Cortical Neurons. Materials, 2019, 12, 875.	1.3	7
3710	Non-volatile resistive switching based on zirconium dioxide: poly (4-vinylphenol) nano-composite. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	19
3711	Robust Exponential Synchronization for Memristor Neural Networks With Nonidentical Characteristics by Pinning Control. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, , 1-15.	5.9	9
3712	Current assisted memory effect in superconductor–ferromagnet bilayers: a potential candidate for memristors. Superconductor Science and Technology, 2019, 32, 095002.	1.8	5
3713	Quasi-Synchronization of Delayed Memristive Neural Networks via a Hybrid Impulsive Control. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, , 1-12.	5.9	34
3714	Flexible Transparent Organic Artificial Synapse Based on the Tungsten/Egg Albumen/Indium Tin Oxide/Polyethylene Terephthalate Memristor. ACS Applied Materials & Interfaces, 2019, 11, 18654-18661.	4.0	77
3715	Mitigating Nonlinear Effect of Memristive Synaptic Device for Neuromorphic Computing. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2019, 9, 377-387.	2.7	27
3716	Memristor in a Reservoir Systemâ€"Experimental Evidence for High-Level Computing and Neuromorphic Behavior of PbI ₂ . ACS Applied Materials & Diterfaces, 2019, 11, 17009-17018.	4.0	23
3717	An improved memristor model connecting plastic synapse and nonlinear spiking neuron. Journal Physics D: Applied Physics, 2019, 52, 275402.	1.3	5
3718	Tin oxide artificial synapses for low power temporal information processing. Nanotechnology, 2019, 30, 325201.	1.3	8
3719	Auto-Adjusted Pulse Width Circuit To Improve Memristor Variations In Reconfigurable High-Pass Filter. , 2019, , .		0

#	Article	IF	CITATIONS
3720	Memristive crossbar arrays for brain-inspired computing. Nature Materials, 2019, 18, 309-323.	13.3	1,058
3721	Handling stuck-at-faults in memristor crossbar arrays using matrix transformations. , 2019, , .		26
3722	Finite-time synchronization of memristive neural networks with discontinuous activation functions and mixed time-varying delays. Neurocomputing, 2019, 340, 99-109.	3.5	30
3723	Simulation and implementation of memristive chaotic system and its application for communication systems. Sensors and Actuators A: Physical, 2019, 290, 107-118.	2.0	38
3724	Recent Developments and Perspectives for Memristive Devices Based on Metal Oxide Nanowires. Advanced Electronic Materials, 2019, 5, 1800909.	2.6	94
3725	Finiteâ€time synchronization of memristive neural networks with timeâ€varying delays via two control methods. Mathematical Methods in the Applied Sciences, 2019, 42, 2746-2760.	1.2	7
3726	Electrical bistability and memory switching phenomenon in Cu2FeSnS4 thin films: role of p-n junction. Journal of Solid State Electrochemistry, 2019, 23, 1307-1314.	1.2	18
3727	Wave digital model of a TiN/Ti/HfO ₂ /TiN memristor. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2019, 32, e2588.	1.2	9
3728	Dynamical effects of memristive load on peak current mode buck-boost switching converter. Chaos, Solitons and Fractals, 2019, 122, 69-79.	2.5	32
3729	Synthesis of Donor–Acceptor Gridarenes with Tunable Electronic Structures for Synaptic Learning Memristor. ACS Omega, 2019, 4, 5863-5869.	1.6	19
3730	Chiral molecules and the electron spin. Nature Reviews Chemistry, 2019, 3, 250-260.	13.8	462
3731	Solid-State Electrochemical Process and Performance Optimization of Memristive Materials and Devices. Chemistry, 2019, 1, 44-68.	0.9	4
3732	Dynamical attractors of memristors and their networks. Europhysics Letters, 2019, 125, 20002.	0.7	25
3733	A Highly Transparent Artificial Photonic Nociceptor. Advanced Materials, 2019, 31, e1900021.	11.1	104
3734	Memristive Devices and Networks for Brainâ€Inspired Computing. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900029.	1.2	66
3735	Recent advances in physical reservoir computing: A review. Neural Networks, 2019, 115, 100-123.	3.3	951
3736	Memristor Crossbar PUF based Lightweight Hardware Security for IoT., 2019,,.		4
3737	Cartoon Image Encryption Algorithm by a Fractional-Order Memristive Hyperchaos. Journal of Electrical and Computer Engineering, 2019, 2019, 1-7.	0.6	3

#	Article	IF	CITATIONS
3738	Self-sustained oscillation in a memristor circuit. Nonlinear Dynamics, 2019, 96, 1267-1281.	2.7	5
3739	Multi-Panel, On-Single-Chip Memristive Biosensing. IEEE Sensors Journal, 2019, 19, 5769-5774.	2.4	3
3740	Numerical simulations of the linear drift memristor model. European Physical Journal Plus, 2019, 134, 1.	1.2	3
3741	Creation and circuit implementation of twoâ€toâ€eight–wing chaotic attractors using a 3D memristorâ€based system. International Journal of Circuit Theory and Applications, 2019, 47, 686-701.	1.3	11
3742	Compact Model of Nonlinear Dynamics While the Cycling of a Memristor., 2019,,.		4
3743	Unstable discrete modes in Hindmarsh–Rose neural networks under magnetic flow effect. Chaos, Solitons and Fractals, 2019, 123, 116-123.	2.5	25
3744	A Carry Lookahead Adder Based on Hybrid CMOS-Memristor Logic Circuit. IEEE Access, 2019, 7, 43691-43696.	2.6	35
3745	Fixed-time synchronization of coupled memristor-based neural networks with time-varying delays. Neural Networks, 2019, 116, 101-109.	3.3	51
3746	Verification and mitigation of ion migration in perovskite solar cells. APL Materials, 2019, 7, .	2.2	179
3747	Chaotic Dynamics of Modified Wien Bridge Oscillator with Fractional Order Memristor. Radioengineering, 2019, 27, 165-174.	0.3	34
3748	Atomic Layer-Deposited HfAlOx-Based RRAM with Low Operating Voltage for Computing In-Memory Applications. Nanoscale Research Letters, 2019, 14, 51.	3.1	14
3749	Finite-Time Synchronization of Coupled Memrisive Neural Network via Robust Control. IEEE Access, 2019, 7, 31820-31831.	2.6	3
3750	PWL Window Function for Nonlinear Memristive Systems. , 2019, , .		0
3751	Electronic synapses based on ultrathin quasi-two-dimensional gallium oxide memristor. Chinese Physics B, 2019, 28, 017304.	0.7	16
3752	Assembly and Characterization of Biomolecular Memristors Consisting of Ion Channel-doped Lipid Membranes. Journal of Visualized Experiments, 2019, , .	0.2	6
3753	Tunnel current model of asymmetric MIM structure levying various image forces to analyze the characteristics of filamentary memristor. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	15
3754	Resistive switching behavior and mechanism in flexible TiO2@Cf memristor crossbars. Ceramics International, 2019, 45, 10182-10186.	2.3	15
3755	Exponential synchronization of delayed memristor-based neural networks with stochastic perturbation via nonlinear control. Neurocomputing, 2019, 340, 90-98.	3.5	10

#	Article	IF	CITATIONS
3756	2D–Organic Hybrid Heterostructures for Optoelectronic Applications. Advanced Materials, 2019, 31, e1803831.	11.1	86
3757	A staircase structure for scalable and efficient synthesis of memristor-aided logic. , 2019, , .		10
3758	Ionotronic Neuromorphic Devices for Bionic Neural Network Applications. Physica Status Solidi - Rapid Research Letters, 2019, 13, .	1.2	16
3759	Extreme Multistability in a Hyperjerk Memristive System With Hidden Attractors., 2019,, 89-103.		10
3760	A Novel Memristor-Based Gas Cumulative Flow Sensor. IEEE Transactions on Industrial Electronics, 2019, 66, 9531-9538.	5.2	7
3761	Hybrid Memristor-Based Impulsive Neural Networks. , 2019, , 155-193.		1
3762	The Intermittent Control Synchronization of Complex-Valued Memristive Recurrent Neural Networks with Time-Delays. Neural Processing Letters, 2019, 50, 2119-2139.	2.0	8
3763	Exponential Synchronization of Stochastic Memristive Neural Networks with Time-Varying Delays. Neural Processing Letters, 2019, 50, 459-475.	2.0	21
3764	Event-triggered set-membership filtering for discrete-time memristive neural networks subject to measurement saturation and fadings. Neurocomputing, 2019, 346, 20-29.	3.5	15
3765	Resistive switching and synaptic properties modifications in gallium-doped zinc oxide memristive devices. Results in Physics, 2019, 12, 1946-1955.	2.0	25
3766	Electroforming-less and multi-level resistive switching characteristics in tungsten oxide thin film. Thin Solid Films, 2019, 674, 91-96.	0.8	8
3767	Pattern Formation With Locally Active S-Type NbO _x Memristors. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 2627-2638.	3.5	37
3768	Timeâ€Efficient Stateful Dualâ€Bitâ€Memristor Logic. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900033.	1.2	17
3769	Resistive Switching Behavior in Ferroelectric Heterostructures. Small, 2019, 15, e1805088.	5.2	40
3770	\hat{l}_{l}^{\dagger} memristor: Real memristor found. Journal of Applied Physics, 2019, 125, 054504.	1.1	32
3771	Analysis of electrical properties of forward-to-open (Ti,Cu)Ox memristor rectifier with elemental gradient distribution prepared using (multi)magnetron co-sputtering process. Materials Science in Semiconductor Processing, 2019, 94, 9-14.	1.9	9
3772	Organic thin film memcapacitors. Applied Physics Letters, 2019, 114, .	1.5	8
3773	Controlling Resistive Switching by Using an Optimized MoS ₂ Interfacial Layer and the Role of Top Electrodes on Ascorbic Acid Sensing in TaO <i>_x</i> >Controlling Resistive Switching by Using an Optimized MoS ₂ Role of Top Electrodes on Ascorbic Acid Sensing in TaO <i>_x</i> Role of Top Electrodes on Ascorbic Acid Sensing in TaO <i>_x</i> Role of Top Electrodes on Ascorbic Acid Sensing in TaO <i>_x</i>	1.6	36

#	Article	IF	CITATIONS
3774	Universal $1/\langle i \rangle f \langle j \rangle$ type current noise of Ag filaments in redox-based memristive nanojunctions. Nanoscale, 2019, 11, 4719-4725.	2.8	19
3775	Dynamics and circuit implementation of a four-wing memristive chaotic system with attractor rotation. International Journal of Non-Linear Mechanics, 2019, 111, 149-159.	1.4	59
3776	Understanding the influence of device, circuit and environmental variations on real processing in memristive memory using Memristor Aided Logic. Microelectronics Journal, 2019, 86, 22-33.	1.1	21
3777	Prediction of period doubling bifurcations in harmonically forced memristor circuits. Nonlinear Dynamics, 2019, 96, 1169-1190.	2.7	19
3778	Memristive characteristic of an amorphous Ga-Sn-O thin-film device. Scientific Reports, 2019, 9, 2757.	1.6	17
3779	Memcapacitor emulator based on the Miller effect. International Journal of Circuit Theory and Applications, 2019, 47, 572-579.	1.3	19
3780	A memristor–meminductor-based chaotic system with abundant dynamical behaviors. Nonlinear Dynamics, 2019, 96, 765-788.	2.7	59
3781	Synaptic plasticity of room-temperature fabricated amorphous MoO film based memristor. Applied Surface Science, 2019, 479, 469-474.	3.1	28
3782	Circuit Implementation of Nano-Scale TiO ₂ Memristor Using Only Metal-Oxide-Semiconductor Transistors. IEEE Electron Device Letters, 2019, 40, 643-646.	2.2	23
3783	Design of CNFET based power- and variability-aware nonvolatile RRAM cell. Microelectronics Journal, 2019, 86, 7-14.	1.1	8
3784	Voltage-Controlled Skyrmion Memristor for Energy-Efficient Synapse Applications. IEEE Electron Device Letters, 2019, 40, 635-638.	2.2	31
3785	Solution-Processed Insulators for Flexible Metal-Insulator-Metal Structures. Journal of Electronic Materials, 2019, 48, 3383-3387.	1.0	3
3786	An electronic silicon-based memristor with a high switching uniformity. Nature Electronics, 2019, 2, 66-74.	13.1	51
3787	A novel memristive true random number generator design. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2019, 38, 1931-1947.	0.5	4
3788	Global Exponential Stability of Memristive Complex-valued Neural Networks with Mixed Time Delays and Impulsive Effects., 2019,,.		0
3789	Exponential synchronization of memristive Cohen-Grossberg neural networks with hybrid time delays. , 2019, , .		0
3790	Experimental verification of volt-ampere characteristic curve for a memristor-based chaotic circuit. Circuit World, 2019, 46, 13-24.	0.7	8
3791	Robust Exponential Synchronization of Inertial Memristor-based Recurrent Neural Networks with Time-varying Delays on Impulsive Effects. , 2019, , .		1

#	Article	IF	CITATIONS
3792	Linearization of High Power Amplifier Using A Memristor in Microwave Transmission., 2019,,.		0
3793	ISSRE 2019 Organizing Committee. , 2019, , .		0
3794	Coexistence of Bipolar and Unipolar Memristor Switching Behavior. , 2019, , .		4
3795	RF Single-Pole Double-Throw Switch Based on Two-Port Memistor. IOP Conference Series: Materials Science and Engineering, 2019, 524, 012008.	0.3	0
3796	Emerging resistive random-access memory for 'fog' computing and IoT: materials and structural options taxonomy. International Journal of Nanotechnology, 2019, 16, 421.	0.1	0
3797	Memristive Grid for Maze Solving. , 2019, , .		0
3798	Study and production of thin-film memristors based on TiO2 – TiOx layers. IOP Conference Series: Materials Science and Engineering, 2019, 498, 012022.	0.3	2
3799	ACDT 2019 Welcome Message., 2019,,.		0
3800	Experimental Study of a Glazed Bi-Fluid (Water/Air) Solar Thermal Collector for Building Integration. , 2019, , .		3
3801	Hardware Implementation of a Low Power Memristor-Based Voltage Controlled Oscillator. , 2019, , .		1
3802	Efficiency Coordinated Control for Modularized Parallel DC-DC converters., 2019,,.		0
3803	Fractional-Order Memristor response to periodic current functions. , 2019, , .		0
3804	Renal Stone Detection and Analysis by Contour Based Algorithm. , 2019, , .		1
3805	Electric Vehicle Travel Chain Model and Case Analysis Based on Time and Space Characteristics. , 2019, ,		0
3806	A Short-term Photovoltaic Output Prediction Method Based on Improved PSO-RVM Algorithm. , 2019, , .		0
3807	Q-MRAS based Speed Sensorless Vector Controlled Synchronous Reluctance Motor Drive. , 2019, , .		4
3808	A Space Vector Based Tool for the Visualisation of Induction Machine Operation Modes., 2019,,.		2
3809	Autometic Generation of Dispatching Rule for Hybrid Flow Shop Scheduling based on Genetic Programming., 2019,,.		O

#	Article	IF	CITATIONS
3810	A Lagrangean relaxation heuristic for a two-stage capacitated facility location problem with depot size selection. , $2019, \dots$		0
3811	A Multilevel Visual Feature-Based Approach for Measuring the Spatial Information in Remote Sensing Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 4110-4122.	2.3	1
3812	Passivity and Synchronization of Coupled Complex-Valued Memristive Neural Networks., 2019,,.		2
3813	JPEG Encryption with File Format Preservation and File Size Reduction. , 2019, , .		3
3814	State of health of lithium ion battery estimation based on charging process. , 2019, , .		2
3815	A High-Accuracy Spatial Localization Methodology for Partial Discharge by UHF-Signal Sensor-Arrays. , 2019, , .		1
3816	A simple tri-layer metamaterial absorber for large area fabrication. , 2019, , .		0
3817	An Iterative Learning Controller for Continuous Systems with Variable Iteration Interval. , 2019, , .		0
3818	A 5-D Chaotic System Based on Second-Order RCL Memristor. , 2019, , .		0
3820	Study on SF6/N2 gas mixture breakdown characteristics in the presence of a free metal particle. , 2019, , .		0
3821	A Study on Software Metric Selection for Software Fault Prediction. , 2019, , .		3
3822	Impact of Imperfect Spectrum Sensing on Hybrid Backscatter Assisted Cognitive Wireless Powered Radio Networks., 2019,,.		O
3824	Student's Choice of Learning Medium Does Not Affect Performance But Study Regularity Does. , 2019, ,		0
3825	Microgrid Energy Management System for Normal and Emergency Operating Conditions. , 2019, , .		4
3826	Small-scale Microgrid Energy Market Based on PILT-DAO. , 2019, , .		3
3827	Inverters with Different Loads for Ring Oscillators True Random Number Generator Analysis. , 2019, , .		0
3829	VIS Capstone Address: Visualizing Temporality and Chronologies for the Humanities. , 2019, , .		1
3830	3D Simulator for Navigation of a Mobile Robot Using Simscape-SIMULINK. , 2019, , .		5

#	Article	IF	CITATIONS
3831	News Video Indexing and Story Unit Segmentation using Text Cue., 2019,,.		3
3832	k-Space Decomposition Based Range Points Migration Method for Millimeter Wave Radar. , 2019, , .		4
3834	Analysis on Construction and Development of Hubei Electricity Sale Market., 2019,,.		0
3835	Control System for Assessing Reliability Functioning of the Complex Radio Electronic Equipment Using Machine Learning Methods. , 2019, , .		1
3836	A Verilog-A based RRAM Switching Model for Simulation and Analysis. , 2019, , .		0
3837	Switching Mechanism and Analysis of Memristor Model Parameters. , 2019, , .		0
3838	IC2IE 2019 Organizer and Sponsors. , 2019, , .		0
3839	An empirical study on finding experience sampling parameters to explain sleep quality based on dimension reduction. , 2019 , , .		0
3841	Secure memristor replicator architecture with physical uncloneability. Electronics Letters, 2019, 55, 1275-1277.	0.5	3
3842	Using Biometrics to Fight Credential Fraud. IEEE Communications Standards Magazine, 2019, 3, 39-45.	3.6	2
3843	An 8-element Multi-band MIMO Antenna with High Isolation for 5G Smartphone Application. , 2019, , .		2
3844	Simulating Memristive Systems in Mixed-Signal Mode using Commercial Design Tools., 2019,,.		5
3845	Analysis of Vector Tracking Loop Algorithm Combine ISL $\&$ GNSS Signal for High orbit spacecraft Positioning. , 2019, , .		0
3846	An Integrated Approach to Ensure Electromagnetic Compatibility in the Design of Electronic Devices. , 2019, , .		0
3847	Virtual Calibration Pattern Realization for Hybrid-FOV Multiview Calibration*., 2019, , .		0
3848	Comparative Study for Some Memristor models in Different Circuit Applications. , 2019, , .		2
3849	Decentral Load Control for Grid Stabilization., 2019,,.		2
3850	Efficient Channel Access Model for Detecting Reactive Jamming for Underwater Wireless Sensor Network., 2019,,.		8

#	Article	IF	CITATIONS
3851	Adaptive Deep Learning based Time-Varying Volume Compression. , 2019, , .		2
3852	ROS-TiPlEx: How to make experts in A.I. Planning and Robotics talk together and be happy. , 2019, , .		3
3853	Noise Reduction in Inherently low-SNR PLD-based PAT images. , 2019, , .		0
3854	FPGA-Accelerated Spreading for Global Placement. , 2019, , .		2
3855	Compensator Design for a Peak Current Mode Controlled Buck Converter. , 2019, , .		1
3856	Research on stress detection technology of longâ€distance pipeline applying nonâ€magnetic saturation. IET Science, Measurement and Technology, 2019, 13, 168-174.	0.9	5
3857	Decentralized Adaptive Optimal Tracking Control for Massive Multi-agent Systems: An Actor-Critic-Mass Algorithm. , 2019, , .		7
3858	Intelligent Patient Monitoring for Arrhythmia and Congestive Failure Patients Using Internet of Things and Convolutional Neural Network. , 2019, , .		1
3859	High-Density ReRAM Crossbar with Selector Device for Sneak Path Reduction., 2019,,.		6
3860	An Innovative 3D Digital Model for Veterinarian. , 2019, , .		1
3861	Mathematical Simulation of Processes in an Asynchronous Motor Powered by a Cable Line., 2019,,.		0
3862	Graph-based Semi-Supervised Classification for Online Customer Reviews Using Consensus Clustering. , 2019, , .		1
3864	The Application of Reinforcement Learning in Amazons. , 2019, , .		2
3865	A controlled in vitro study of optimal low intensity pulsed ultrasound fields for stimulation of proliferation in murine osteoblasts. , 2019, , .		0
3866	Risk Management in Agile Software Development: A Survey. , 2019, , .		5
3867	Ambient OFDM Pilot-Aided Delay-Shift Keying and Its Efficient Detection for Ultra Low-Power Communications., 2019,,.		3
3868	Scaling Blockchains to Support Electronic Health Records for Hospital Systems. , 2019, , .		17
3869	A Blockchain based Investment and Collective Support Mapping for Emerging Businesses. , 2019, , .		0

#	Article	IF	CITATIONS
3870	Parallel Particle Advection and Lagrangian Analysis for 3D-PLI Fiber Orientation Maps., 2019,,.		1
3872	Modeling of mutual inductance between planar inductors on the same plane. , 2019, , .		0
3874	Characterization of Demand to Rational and Efficient Use Based on Participative Methodology. , 2019, , .		0
3875	3D-Printed Multi-Beam Planar Dual-reflector Antenna for 5G Millimeter-Wave Applications., 2019,,.		O
3876	A Scalable Correlation Clustering strategy in Location Privacy for Wireless Sensor Networks against a Universal Adversary. , 2019, , .		1
3878	Power Shepherd: Application Performance Aware Power Shifting. , 2019, , .		2
3879	Using data mining techniques to extract key factors in Mobile live streaming. , 2019, , .		2
3880	Implementation of 1T1R-based OxRRAM Memristor Model for Circuit Design and Simulation. , 2019, , .		0
3881	Resource Allocation Mechanisms for the Portfolio of Projects with Concave Utility Functions. , 2019, , .		0
3882	Interaction of Optical and Acoustic Waves in Acoustic Tapers of Movements of Information Measurement Systems., 2019,,.		1
3883	Study for the Intelligent Luggage Tracking System Based on Near Field Bluetooth Technology. , 2019, , .		0
3884	First Order Plus Frequency Dependent Delay Modeling: New Perspective or Mathematical Curiosity?., 2019,,.		1
3885	Effectiveness Evaluation of Public Security Face Recognition Systems Based on Improved Unascertained C-Means., 2019,,.		0
3886	Study on Evaluation of Sampling Test Efficiency for Distribution Transformer. , 2019, , .		1
3887	Structure Learning via Hadamard Product of Correlation and Partial Correlation Matrices., 2019,,.		2
3888	A Cryptographic Algorithm Based on ASCII and Number System Conversions along with a Cyclic Mathematical Function. , 2019, , .		2
3889	A controlled Murali-Lakshmanan-Chua memristor circuit to mimic neuron dynamics. , 2019, , .		3
3890	Insulation Monitoring of Oxidative Aged Nonedible Ester Based Dielectric Fluid by Suitable Dissolved Gas Analysis. , 2019, , .		1

#	Article	IF	CITATIONS
3891	A Machine Learning Model for Detecting Respiratory Problems using Voice Recognition., 2019,,.		5
3892	Towards A Practical Approach to Improve the Interdisciplinary Teaching and Learning Process through M-learning Innovative Projects., 2019,,.		0
3894	Applying a Traditional Software Development Process to Drive Projects in Higher Education. , 2019, , .		1
3895	Model Reference Adaptive Control and Neural Network Based Control of Altitude of Unmanned Aerial Vehicles. , 2019, , .		5
3896	Unsupervised Anomaly Detection in Time Series Using LSTM-Based Autoencoders. , 2019, , .		67
3897	On the development of a robust cyber security system for Internet of Things devices. , 2019, , .		1
3898	LIGHTER-R: Optimized Reversible Circuit Implementation For SBoxes. , 2019, , .		20
3899	Design of Modular Multiplier Based on Memristor. , 2019, , .		0
3900	Analysis of a Novel Non-Volatile Look-Up Table (NV LUT) Controller Design with Resistive Random-Access Memories (RRAM) for Field-Programmable Gate Arrays (FPGA)., 2019,,.		1
3901	Electroforming-free BiFeO ₃ switches for neuromorphic computing: Spike-timing dependent plasticity (STDP) and cycle-number dependent plasticity (CNDP)., 2019,,.		3
3902	Analysis on Performance of MCPWM Techniques for a Multilevel Inverter fed PV system., 2019,,.		0
3903	Effect of ZnO on physical properties of Sb2O3-PbO-ZnO system. , 2019, , .		0
3904	Analyzing Image Focus using Deep Neural Network for 3D Shape Recovery., 2019,,.		2
3905	Synaptic behaviour of memristor model and its analysis of power and data transfer rate., 2019,,.		0
3906	A novel spinal cord surrogate for the study of compressive traumatic spinal cord injuries*., 2019, 2019, 5678-5680.		2
3907	A Compact EBG for High Isolation Between Two Very Closeby Wire-Antennas for RFID Tags. , 2019, , .		0
3908	A Continuous-time Learning Rule for Memristor–based Recurrent Neural Networks. , 2019, , .		1
3909	Nonlinear dynamics of coupled inductor-capacitor-memristor oscillators. , 2019, , .		0

#	Article	IF	CITATIONS
3910	Intelligent Power Charging Strategy in Wireless Rechargeable Sensor Network., 2019,,.		2
3911	Research on Pest and Disease Recognition Algorithms Based on Convolutional Neural Network. , 2019, , .		4
3912	Performance improvement of IEEE-30 bus system using UPFC and TCSC on PSAT., 2019,,.		2
3913	Non-fragile Set-membership State Estimation for Memristive Neural Networks with Incomplete Measurements via Round-robin Protocol. , 2019, , .		1
3914	Synchronization of complex networks with memristive neural network nodes via impulsive control. , 2019, , .		3
3915	Pinning Control for Synchronization of Drive-Response Memristive Neural Networks with Nonidentical Parameters. , 2019, , .		0
3916	Depth-Controllable Very Deep Super-Resolution Network. , 2019, , .		8
3917	Wind Turbine Components Classification based on Failure Causes for Proactive Maintenance Simulation. , $2019, , .$		2
3918	Implementation of Dynamic Regulator Settings for Voltage Control in Distribution Systems. , 2019, , .		0
3919	State of the art and trends of Vehicle Communication: Overview. , 2019, , .		1
3920	Tunable fluxâ€controlled floating memristor emulator circuits. IET Circuits, Devices and Systems, 2019, 13, 479-486.	0.9	27
3921	Insight into physicsâ€based RRAM models – review. Journal of Engineering, 2019, 2019, 4644-4652.	0.6	20
3922	Nano Resistive Memory (Re-RAM) Devices and their Applications. Reviews on Advanced Materials Science, 2019, 58, 248-270.	1.4	21
3923	Linear Weight Update in MoS ₂ /Graphene Memristive Synapses for Unsupervised Learning. , 2019, , .		1
3924	Providing Consumers with Direct Connection to Low Pressure Gas Pipelines. , 2019, , .		1
3925	Experimental Ultrasonic NDT Signals of Cement paste and mortar Based on Time Frequency Analysis. , 2019, , .		1
3926	Acoustic Sensor Networks and Mobile Robotics for Sound Source Localization. , 2019, , .		1
3927	SlimYOLOv3: Narrower, Faster and Better for Real-Time UAV Applications. , 2019, , .		143

#	Article	IF	CITATIONS
3928	IWCMC 2019 Copyright Page. , 2019, , .		1
3929	A multi-channels axon-stretch device for mechanical stress study. , 2019, , .		0
3930	Factors Influencing Supplier Selection for Vendor Managed Inventory Adoption in Hospitals. , 2019, , .		3
3931	Applying Ad Hoc Technology in Inner City Communication. , 2019, , .		5
3932	Bayesian Graph Convolution LSTM for Skeleton Based Action Recognition. , 2019, , .		74
3933	Partial Discharge Pattern Recognition Method of Distribution Cabinet Equipment Based on Higher Moment Feature. , 2019, , .		1
3934	Virtualisation as a Means for Dynamic Software Update within the Automotive E/E Architecture. , 2019, , .		2
3935	Realization of Single CCCDTA based incremental/decremental type Memconductance Emulator., 2019,,.		1
3936	VulnerCheck: A Content-Agnostic Detector for Online Hatred-Vulnerable Videos. , 2019, , .		7
3937	The impact of storm-induced coastal trapped waves on the transport of marine debris using high-frequency radar data., 2019,,.		1
3938	Fast Steerable Wireless Backhaul Reconfiguration. , 2019, , .		0
3939	TextEdge: Multi-oriented Scene Text Detection via Region Segmentation and Edge Classification. , 2019, , .		4
3940	Asynchronous Control Method of Parallel IGCT Components in Hybrid DC Circuit Breakers. , 2019, , .		1
3941	Intelligent Succulent Plant Management System Based on Wireless Network. , 2019, , .		1
3942	Three-dimensional Joint Inversion of Acoustic and Electromagnetic Data Based on Contrast Source Inversion. , 2019, , .		0
3943	Big Federal Data Centers Implementing FAIR Data Principles: ARM Data Center Example. , 2019, , .		7
3944	A Mathematical Model for Electrodynamic Properties Evaluation of Homogeneous Material with Plane Boundaries and its Application for Ionospheric Disturbances Diagnostics. , 2019, , .		0
3945	Determination of Sensor Position on 150 kV Gas Insulation Switchgear., 2019, , .		3

#	Article	IF	CITATIONS
3946	Testing Computation-in-Memory Architectures Based on Emerging Memories. , 2019, , .		15
3947	New network-based leader-following consensus criteria for nonlinear multi-agent systems. , 2019, , .		0
3948	ArcFace: Additive Angular Margin Loss for Deep Face Recognition. , 2019, , .		2,944
3949	Comparison of COSYSMO Model with Different Software Cost Estimation Techniques. , 2019, , .		5
3950	Hardware Implementation of A Synthetic Inertia System for Grid Stability. , 2019, , .		2
3951	A Design for High Performance of a Half-Wave Rectified Variable Field Flux Motor. , 2019, , .		8
3952	Microgrid Power Sharing Controller based on OFDM with QPSK and 64 QAM., 2019,,.		0
3953	MRL Crossbar-Based Full Adder Design. , 2019, , .		8
3954	Convolutional Classification of Pathogenicity in H5 Avian Influenza Strains. , 2019, , .		4
3955	PA3D: Pose-Action 3D Machine for Video Recognition. , 2019, , .		46
3956	Object Detection Algorithm based on Dense Connection. , 2019, , .		2
3957	Toward Characterization of the Feasible Region of Loadability of Power Systems. , 2019, , .		3
3958	Analog Neural Network based on Memristor Crossbar Arrays. , 2019, , .		0
3959	PZT Based Multilayer Surface Acoustic Wave Device for High Frequency Applications. , 2019, , .		O
3960	Integration of Offshore Wind Farm Plants to the Power Grid using an HVDC line Transmission. , 2019, , .		5
3961	Fault-Tolerant Neuromorphic Computing Systems. , 2019, , .		3
3962	Multimedia Traffic Management in FANET under Human Mobility Scenarios. , $2019, \ldots$		1
3963	Bursting Memristor Neuron Response to Capacitance Variation. , 2019, , .		2

#	Article	IF	CITATIONS
3964	Impact of Social Media on Socialization of University Students (A Study on East West University's) Tj ETQq0 () 0 rgBT	/Overlock 10 T
3965	Theory of Cellular Nonlinear Networks with Analogue Dynamic Memristors. , 2019, , .		1
3966	Performance Analysis of Single MPPT Technique using RBFN for PV and Wind Hybrid System. , 2019, , .		3
3967	Human Computer Interaction Strategies â€" Designing the User Interface. , 2019, , .		2
3968	Moving Object Detection by Patch Dividing through Low-Rank Framework. , 2019, , .		O
3969	Evaluation of Wireless Body Area Network Utilizing Super Orthogonal Convolutional Code. , 2019, , .		O
3970	Generative Adversarial Network-based Image Super-Resolution with a Novel Quality Loss. , 2019, , .		5
3971	Integration into a real-time platform of distributed generation. , 2019, , .		O
3972	Programmable Emulator of Genuinely Floating Memristive Switching Devices., 2019,,.		4
3973	Parallel Machine Scheduling Problem With Order Sharing and Time Value of Money. , 2019, , .		О
3974	Hamilton's Principle for Circuits with Dissipative Elements. Complexity, 2019, 2019, 1-7.	0.9	2
3975	Advanced Simulation of RRAM Memory Cells. , 2019, , .		О
3976	Wireless Real Time Suspicious Activity Detection using Smart Glass. , 2019, , .		0
3977	Hardware Fault Tolerance for Binary RRAM Crossbars. , 2019, , .		5
3978	Multi-Task Deep Learning for Satellite Image Pansharpening and Segmentation. , 2019, , .		8
3979	Influence of Battery Voltage Level on Regenerative Braking Capability and Overall Efficiency of Electric Vehicles. , 2019, , .		0
3980	The Sharing Charging System Cloud Based on Bomb Back-end Cloud. , 2019, , .		0
3981	Geographical Origin Identification for Tetrastigma Hemsleyanum Based on High Performance Liquid Chromatographic Fingerprint. , 2019, , .		5

#	Article	IF	CITATIONS
3982	Human Activity Recognition Using Multichannel Convolutional Neural Network., 2019,,.		30
3983	Hybrid Reduction Dimension on Clustering Text of English Hadith Translation. , 2019, , .		O
3984	On the Modeling of Multistable Memory States Using Memristor. , 2019, , .		0
3985	Methodology for Modeling and Implementation in Hardware-in-the-loop of Fuses and Overcurrent Protections. , 2019, , .		2
3986	Enhanced memristorâ€based MNNs performance on noisy dataset resulting from memristive stochasticity. IET Circuits, Devices and Systems, 2019, 13, 704-709.	0.9	2
3987	Control Design and Performance Evaluation for a Four-Cell Boost Converter in PV Applications. , 2019, , .		0
3988	A Scan Register Based Access Scheme for Multilevel Non-Volatile Memristor Memory. , 2019, , .		0
3989	A Generalized Analytic Model to Tailor Back Contact Design of Bifacial PERC-type Cu(In,Ga)Se2 solar cells. , 2019, , .		0
3990	Low Cost Autonomous Amphibious Bird Chasing Robot., 2019,,.		1
3991	Experimental Investigation of Memristance Enhancement. , 2019, , .		2
3992	A Scheme for Image Encryption And Decryption of Chaotic System Based on memristors. IOP Conference Series: Materials Science and Engineering, 2019, 631, 042029.	0.3	0
3993	CMOS based Ultra-low Power High-Precision Analog Vector Matrix Multiplication Circuit with $\hat{\rm A}\pm0.1\%$ Error for Vision Application. , 2019, , .		4
3994	Space Charge Effect and Resistance Switching in Doped Monocrystalline Silicones. Applied Sciences (Switzerland), 2019, 9, 434.	1.3	1
3995	Logistic Function Based Memristor Model With Circuit Application. IEEE Access, 2019, 7, 166451-166462.	2.6	1
3996	Compact 5T2M ternary content addressable memory cell. , 2019, , .		5
3997	Memcomputing and Nondestructive Reading in Functional Ferroelectric Heterostructures. Physical Review Applied, 2019, 12, .	1.5	7
3998	Implementation and Characterization of a Memristive Memory System., 2019,,.		9
3999	Lagrangian for Circuits with Higher-Order Elements. Entropy, 2019, 21, 1059.	1.1	5

#	Article	IF	CITATIONS
4000	Design of a Second-Order Delta-Sigma ADC Based Read/Write Circuit for Memristive Crossbar Arrays. , 2019, , .		0
4001	The Nonlinear Bipolar and Unipolar Switching Behavior of a Memristor. , 2019, , .		0
4002	Comparison of Different Memristor Emulators on Low-Pass Filter Circuit., 2019, , .		2
4003	Adaptive Multi-Switching Synchronization of High-Order Memristor-Based Hyperchaotic System with Unknown Parameters and Its Application in Secure Communication. Complexity, 2019, 2019, 1-18.	0.9	13
4004	A memristor-based system with hidden hyperchaotic attractors, its circuit design, synchronisation via integral sliding mode control and an application to voice encryption. International Journal of Automation and Control, 2019, 13, 644.	0.3	43
4005	Characterization and Application of PVDF and Its Copolymer Films Prepared by Spin-Coating and Langmuir–Blodgett Method. Polymers, 2019, 11, 2033.	2.0	96
4006	RRAM Device Models: A Comparative Analysis With Experimental Validation. IEEE Access, 2019, 7, 168963-168980.	2.6	36
4007	Information can be stored in the human skin memristor which has non-volatile memory. Scientific Reports, 2019, 9, 19260.	1.6	12
4008	Memristive plasticity in artificial electrical synapses $\langle i \rangle via \langle i \rangle$ geometrically reconfigurable, gramicidin-doped biomembranes. Nanoscale, 2019, 11, 18640-18652.	2.8	14
4009	Towards spike-based machine intelligence with neuromorphic computing. Nature, 2019, 575, 607-617.	13.7	869
4010	Design of Memristor – CMOS based logic gates and logic circuits. , 2019, , .		6
4011	A Universal Fractional-Order Memelement Emulation Circuit. , 2019, , .		4
4012	Toward Fully Printed Memristive Elements: a-TiO ₂ Electronic Synapse from Functionalized Nanoparticle Ink. ACS Applied Electronic Materials, 2019, 1, 2692-2700.	2.0	16
4013	Complex Dynamical Behaviors of a Fractional-Order System Based on a Locally Active Memristor. Complexity, 2019, 2019, 1-13.	0.9	11
4014	Adaptive anti-synchronization of memristor-based complex-valued neural networks with time delays. Physica A: Statistical Mechanics and Its Applications, 2019, 535, 122427.	1.2	21
4015	Analysis and FPGA Realization of a Novel 5D Hyperchaotic Four-Wing Memristive System, Active Control Synchronization, and Secure Communication Application. Complexity, 2019, 2019, 1-18.	0.9	72
4016	Diffusive Memristive Switching on the Nanoscale, from Individual Nanoparticles towards Scalable Nanocomposite Devices. Scientific Reports, 2019, 9, 17367.	1.6	23
4017	Chaotic Circuit based on Memristive Elements. , 2019, , .		2

#	Article	IF	CITATIONS
4018	Highâ€performance digital logic implementation approach using novel Memristorâ€based multiplexer. International Journal of Circuit Theory and Applications, 2019, 47, 1933-1947.	1.3	5
4019	Memristor-Based Neural Network Circuit of Full-Function Pavlov Associative Memory With Time Delay and Variable Learning Rate. IEEE Transactions on Cybernetics, 2019, 50, 1-11.	6.2	101
4020	Second Order Memristor Models for Neuromorphic Computing. , 2019, , .		5
4021	A Universal Floating Fractional-Order Elements/Memelements Emulator. , 2019, , .		1
4022	A Practical HfO $<$ sub $>$ 2 $<$ /sub $>$ -based OxRAM Memristor Model Suitable for Circuit Design and Simulation. , 2019, , .		5
4023	Design and FPGA Implementation of a Pseudorandom Number Generator Based on a Four-Wing Memristive Hyperchaotic System and Bernoulli Map. IEEE Access, 2019, 7, 181884-181898.	2.6	55
4024	Variable Impulsive Synchronization of Memristor-Based Chaotic Systems With Actuator Saturation. IEEE Access, 2019, 7, 185839-185848.	2.6	6
4025	Simulation of Electrical Characteristics of Switching Nanostructures "Pt â€" TiO â€" Pt" and "Pt â€" NiO â€" Pt" with Memory. Radioengineering, 2019, 28, 714-720.	0.3	3
4026	An Electrical Characterisation Methodology for Benchmarking Memristive Device Technologies. Scientific Reports, 2019, 9, 19412.	1.6	19
4027	Two-terminal floating-gate transistors with a low-power memristive operation mode for analogue neuromorphic computing. Nature Electronics, 2019, 2, 596-605.	13.1	88
4028	Local conductivity of graphene oxide study by conductive atomic force microscope. Journal of Applied Physics, 2019, 126, .	1.1	5
4029	Field-induced p-n transition in yttria-stabilized zirconia. Scientific Reports, 2019, 9, 18538.	1.6	16
4030	A Simple BJT Inverse Memristor Emulator and Its Application in Chaotic Oscillators. , 2019, , .		6
4031	From Behavioral Design of Memristive Circuits and Systems to Physical Implementations. IEEE Circuits and Systems Magazine, 2019, 19, 6-18.	2.6	22
4032	Redox-based memristive devices for new computing paradigm. APL Materials, 2019, 7, 110903.	2.2	55
4033	Effects of Initial Conditions and Circuit Parameters on the SBT-Memristor-Based Chaotic Circuit. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1950171.	0.7	9
4034	Hybrid dualâ€complementary metal–oxide–semiconductor/memristor synapseâ€based neural network with its applications in image superâ€resolution. IET Circuits, Devices and Systems, 2019, 13, 1241-1248.	0.9	25
4035	Memristor based multifunction oscillator. , 2019, , .		O

#	Article	IF	CITATIONS
4036	Analysis of nonlinear passive pinched hysteresis generator circuits. , 2019, , .		0
4037	A Parasitic Resistance-Adapted Programming Scheme for Memristor Crossbar-Based Neuromorphic Computing Systems. Materials, 2019, 12, 4097.	1.3	4
4039	A nanofluidic memristor based on ion concentration polarization. Analyst, The, 2019, 144, 7168-7172.	1.7	22
4040	Inkjet assisted fabrication of planar biocompatible memristors. RSC Advances, 2019, 9, 35998-36004.	1.7	12
4041	Electromigration-induced resistance switching in indented Al microstrips. New Journal of Physics, 2019, 21, 113015.	1.2	8
4042	Optical Properties of Composite Materials Based on Poly[2-methoxy-5-(2-ethylhexyloxy)-1,4-Phenylenevinylene] and Titanium Dioxide in the Mid-IR Spectral Range. Semiconductors, 2019, 53, 1999-2001.	0.2	0
4043	Finite-Time Synchronization of Memristive Neural Networks with Proportional Delay. Neural Processing Letters, 2019, 50, 1139-1152.	2.0	39
4044	Ex-situ training of large memristor crossbars for neural network applications. Analog Integrated Circuits and Signal Processing, 2019, 99, 1-10.	0.9	11
4045	Overhead Requirements for Stateful Memristor Logic. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 263-273.	3.5	20
4046	A Flux-Controlled Logarithmic Memristor Model and Emulator. Circuits, Systems, and Signal Processing, 2019, 38, 1452-1465.	1.2	40
4047	Generalized modeling and character analyzing of composite fractional-order memristors in series connection. Nonlinear Dynamics, 2019, 95, 101-115.	2.7	17
4048	Non-fragile state estimation for delayed fractional-order memristive neural networks. Applied Mathematics and Computation, 2019, 340, 221-233.	1.4	39
4049	Computation of Pinched Hysteresis Loop Area From Memristance-vs-State Map. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 677-681.	2.2	2
4050	An accurate model of domain-wall-based spintronic memristor. The Integration VLSI Journal, 2019, 65, 149-162.	1.3	11
4051	An Optically Gated Transistor Composed of Amorphous $M + Ge < sub > 2 < / sub > Se < sub > 3 < / sub > (M = Cu or) Tj ETQ 1, 96-104.$	Qq0 0 0 rgE 2.0	BT /Overlock 8
4052	A general method to describe forgetting effect of memristors. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 942-948.	0.9	13
4053	Organic Memristor Utilizing Copper Phthalocyanine Nanowires with Infrared Response and Cation Regulating Properties. Advanced Electronic Materials, 2019, 5, 1800793.	2.6	44
4054	Synchronization in uncertain fractional-order memristive complex-valued neural networks with multiple time delays. Neural Networks, 2019, 110, 186-198.	3.3	70

#	Article	IF	Citations
4055	Resistive switching device with highly-asymmetric current-voltage characteristics: its error analysis and new design parameter. Semiconductor Science and Technology, 2019, 34, 025007.	1.0	3
4056	Fractional-order memristor-based chaotic system with a stable equilibrium point, its fractional-order PI-based sliding mode control and switching synchronisation. Pramana - Journal of Physics, 2019, 92, 1.	0.9	8
4057	Nonfragile Dissipative Synchronization for Markovian Memristive Neural Networks: A Gain-Scheduled Control Scheme. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1841-1853.	7.2	125
4058	Programming of Memristive Artificial Synaptic Crossbar Network Using PWM Techniques. Journal of Circuits, Systems and Computers, 2019, 28, 1950201.	1.0	7
4059	Uniformly stable and attractive of fractional-order memristor-based neural networks with multiple delays. Applied Mathematics and Computation, 2019, 347, 392-403.	1.4	10
4061	A novel design of memristor-based bidirectional associative memory circuits using Verilog-AMS. Neurocomputing, 2019, 330, 437-448.	3.5	15
4062	Mechanisms for Enhanced State Retention and Stability in Redoxâ€Gated Organic Neuromorphic Devices. Advanced Electronic Materials, 2019, 5, 1800686.	2.6	66
4063	Exponential dissipativity analysis of discreteâ€time switched memristive neural networks with actuator saturation via quasiâ€timeâ€dependent control. International Journal of Robust and Nonlinear Control, 2019, 29, 67-84.	2.1	14
4064	Coupling Cortical Neurons through Electronic Memristive Synapse. Advanced Materials Technologies, 2019, 4, 1800350.	3.0	63
4065	Memristor crossbar arrays with 6-nm half-pitch and 2-nm critical dimension. Nature Nanotechnology, 2019, 14, 35-39.	15.6	381
4066	A Secure Integrity Checking System for Nanoelectronic Resistive RAM. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2019, 27, 416-429.	2.1	3
4067	Highâ€frequency floating memristor emulator and its experimental results. IET Circuits, Devices and Systems, 2019, 13, 292-302.	0.9	44
4068	A new nonlinear dopant kinetic model of memristor and its application. Indian Journal of Physics, 2019, 93, 765-772.	0.9	3
4069	Introduction to Nonlinear Circuits and Networks. , 2019, , .		8
4070	Truly Concomitant and Independently Expressed Short―and Longâ€Term Plasticity in a Bi ₂ O ₂ Seâ€Based Threeâ€Terminal Memristor. Advanced Materials, 2019, 31, e1805769.	11.1	85
4071	Resistive switching in sub-micrometric ZnO polycrystalline films. Nanotechnology, 2019, 30, 065707.	1.3	17
4072	Symmetrical coexisting attractors and extreme multistability induced by memristor operating configurations in SC-CNN. AEU - International Journal of Electronics and Communications, 2019, 100, 127-137.	1.7	27
4073	A Simple Floating MOS-Memristor for High-Frequency Applications. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2019, 27, 1186-1195.	2.1	53

#	Article	IF	CITATIONS
4074	A hardware friendly unsupervised memristive neural network with weight sharing mechanism. Neurocomputing, 2019, 332, 193-202.	3.5	29
4075	Aperiodic intermittent pinning control for exponential synchronization of memristive neural networks with time-varying delays. Neurocomputing, 2019, 332, 249-258.	3.5	29
4076	Polymer Analog Memristive Synapse with Atomic-Scale Conductive Filament for Flexible Neuromorphic Computing System. Nano Letters, 2019, 19, 839-849.	4.5	139
4077	Low power, ultrafast synaptic plasticity in 1R-ferroelectric tunnel memristive structure for spiking neural networks. AEU - International Journal of Electronics and Communications, 2019, 100, 56-65.	1.7	24
4078	Addressing the sneak-path problem in crossbar RRAM devices using memristor-based one Schottky diode-one resistor array. Results in Physics, 2019, 12, 1091-1096.	2.0	76
4079	A New Floating Memristor Based on CBTA with Grounded Capacitors. Journal of Circuits, Systems and Computers, 2019, 28, 1950217.	1.0	19
4080	Designing crystallization in phase-change materials for universal memory and neuro-inspired computing. Nature Reviews Materials, 2019, 4, 150-168.	23.3	572
4081	Long short-term memory networks in memristor crossbar arrays. Nature Machine Intelligence, 2019, 1, 49-57.	8.3	288
4082	Bienenstock, Cooper, and Munro Learning Rules Realized in Secondâ€Order Memristors with Tunable Forgetting Rate. Advanced Functional Materials, 2019, 29, 1807316.	7.8	60
4083	Neuronal communication: Stochastic neuron dynamics and multi-synchrony states. AEU - International Journal of Electronics and Communications, 2019, 100, 75-85.	1.7	5
4084	Pinning Impulsive Synchronization of Stochastic Memristor-based Neural Networks with Time-varying Delays. International Journal of Control, Automation and Systems, 2019, 17, 243-252.	1.6	18
4085	Memristor-Based Tunable Analog Filter for Physiological Signal Acquisition for Electrooculography. Advances in Science, Technology and Innovation, 2019, , 237-242.	0.2	1
4086	Hindmarsh-Rose neuron model with memristors. BioSystems, 2019, 178, 1-9.	0.9	56
4087	Initial value-related dynamical analysis of the memristor-based system with reduced dimensions and its chaotic synchronization via adaptive sliding mode control method. Chinese Journal of Physics, 2019, 58, 117-131.	2.0	39
4088	Fully Integrated Memristor and Its Application on the Scroll-Controllable Hyperchaotic System. Complexity, 2019, 2019, 1-8.	0.9	27
4089	Synthetic Cells: Colloidal-sized state machines. , 2019, , 361-386.		2
4090	Global stability and stabilization for inertial memristive neural networks with unbounded distributed delays. Nonlinear Dynamics, 2019, 95, 943-955.	2.7	32
4091	Input-to-state stability of discrete-time memristive neural networks with two delay components. Neurocomputing, 2019, 329, 1-11.	3.5	6

#	ARTICLE	IF	CITATIONS
4092	A Demonstration of Implication Logic Based on Volatile (Diffusive) Memristors. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1033-1037.	2.2	8
4093	Maximal Defect-Free Component in Nanoscale Crossbar Circuits Amidst Stuck-Open and Stuck-Closed Faults. Journal of Circuits, Systems and Computers, 2019, 28, 1950180.	1.0	6
4094	Fixed-time synchronization of inertial memristor-based neural networks with discrete delay. Neural Networks, 2019, 109, 81-89.	3.3	115
4095	Hopfield Associative Memory with Quantized Weights. Studies in Computational Intelligence, 2019, , 91-97.	0.7	1
4096	Two-Terminal Network Elements., 2019, , 1-62.		0
4097	Dynamic Nonlinear Networks. , 2019, , 199-314.		0
4098	The impact of on-chip communication on memory technologies for neuromorphic systems. Journal Physics D: Applied Physics, 2019, 52, 014003.	1.3	19
4099	Effects of initial conditions on the synchronization of the coupled memristor neural circuits. Nonlinear Dynamics, 2019, 95, 1269-1282.	2.7	35
4100	Memristor-based quinary half adder. AEU - International Journal of Electronics and Communications, 2019, 98, 123-130.	1.7	11
4101	An extended synchronization analysis for memristor-based coupled neural networks via aperiodically intermittent control. Applied Mathematics and Computation, 2019, 344-345, 163-182.	1.4	10
4102	Passivity analysis of delayed reaction–diffusion memristor-based neural networks. Neural Networks, 2019, 109, 159-167.	3.3	92
4103	Multiple < mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml11" display="inline" overflow="scroll" altimg="si11.gif" > < mml:mi $>$ [1/4 < /mml:mi> < /mml:math> - stability and multiperiodicity of delayed memristor-based fuzzy cellular neural networks with nonmonotonic activation functions. Mathematics and Computers in Simulation, 2019, 159, 1-17.	2.4	20
4104	Event-triggered impulsive control on quasi-synchronization of memristive neural networks with time-varying delays. Neural Networks, 2019, 110, 55-65.	3.3	72
4105	SPICE Modeling of Insulator Metal Transition: Model of the Critical Temperature. IEEE Journal of the Electron Devices Society, 2019, 7, 18-25.	1.2	10
4106	Look-ahead mapping of Boolean functions in memristive crossbar array. The Integration VLSI Journal, 2019, 64, 152-162.	1.3	27
4107	Device and materials requirements for neuromorphic computing. Journal Physics D: Applied Physics, 2019, 52, 113001.	1.3	105
4108	Fundamentals and Literature Review. Computer Architecture and Design Methodologies, 2019, , 9-28.	0.5	0
4109	Reversals of period doubling, coexisting multiple attractors, and offset boosting in a novel memristive diode bridge-based hyperjerk circuit. Analog Integrated Circuits and Signal Processing, 2019, 101, 379-399.	0.9	24

#	Article	IF	CITATIONS
4110	Technological innovation., 2019, , 17-53.		0
4111	Bio-inspired fault detection circuits based on synapse and spiking neuron models. Neurocomputing, 2019, 331, 473-482.	3.5	20
4112	Memristor devices for neural networks. Journal Physics D: Applied Physics, 2019, 52, 023003.	1.3	86
4113	Stability analysis of memristor-based time-delay fractional-order neural networks. Neurocomputing, 2019, 323, 117-127.	3.5	26
4114	A simple test for ideal memristors. Journal Physics D: Applied Physics, 2019, 52, 01LT01.	1.3	27
4115	Memristor Emulator Circuit Using Multiple-Output OTA and Its Experimental Results. Journal of Circuits, Systems and Computers, 2019, 28, 1950166.	1.0	33
4116	Field coupling benefits signal exchange between Colpitts systems. Applied Mathematics and Computation, 2019, 342, 45-54.	1.4	18
4117	Exponential stability analysis for delayed complex-valued memristor-based recurrent neural networks. Neural Computing and Applications, 2019, 31, 1893-1903.	3.2	8
4118	Passivity Analysis for Memristor-Based Inertial Neural Networks With Discrete and Distributed Delays. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 375-385.	5.9	78
4119	Novel techniques for memristive multifunction logic design. The Integration VLSI Journal, 2019, 65, 219-230.	1.3	9
4120	Global exponential stability of uncertain memristor-based recurrent neural networks with mixed time delays. International Journal of Machine Learning and Cybernetics, 2019, 10, 743-755.	2.3	10
4121	Control of Memristor-Based Simplest Chaotic Circuit with One-State Controllers. Journal of Circuits, Systems and Computers, 2019, 28, 1950007.	1.0	14
4122	Projective synchronization for fractional-order memristor-based neural networks with time delays. Neural Computing and Applications, 2019, 31, 6039-6054.	3.2	37
4123	Global Anti-Synchronization of Complex-Valued Memristive Neural Networks With Time Delays. IEEE Transactions on Cybernetics, 2019, 49, 1735-1747.	6.2	109
4124	Bi-Stability in an Improved Memristor-Based Third-Order Wien-Bridge Oscillator. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2019, 36, 109-116.	2.1	42
4125	Pinning Synchronization of Coupled Memristive Recurrent Neural Networks with Mixed Time-Varying Delays and Perturbations. Neural Processing Letters, 2019, 49, 239-262.	2.0	14
4126	Global Exponential Synchronization of Memristive Competitive Neural Networks with Time-Varying Delay via Nonlinear Control. Neural Processing Letters, 2019, 49, 103-119.	2.0	31
4127	On the comparison of memristor-transistor hybrid and transistor-only heterogeneous FPGAs. Journal of King Saud University - Computer and Information Sciences, 2019, 31, 514-527.	2.7	2

#	Article	IF	CITATIONS
4128	Quasi-Synchronization of Delayed Chaotic Memristive Neural Networks. IEEE Transactions on Cybernetics, 2019, 49, 712-718.	6.2	52
4129	Robust synchronization of memristor-based fractional-order Hopfield neural networks with parameter uncertainties. Neural Computing and Applications, 2019, 31, 3533-3542.	3.2	17
4130	Asymptotic and finite-time synchronization of memristor-based switching networks with multi-links and impulsive perturbation. Neural Computing and Applications, 2019, 31, 4031-4047.	3.2	7
4131	A plethora of behaviors in a memristor based Hopfield neural networks (HNNs). International Journal of Dynamics and Control, 2019, 7, 36-52.	1.5	52
4132	Adaptive Synchronization of Delayed Memristive Neural Networks With Unknown Parameters. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 539-549.	5.9	28
4133	Skeleton-Based Synthesis Flow for Computation-in-Memory Architectures. IEEE Transactions on Emerging Topics in Computing, 2020, 8, 545-558.	3.2	6
4134	Quasi-synchronization of stochastic memristor-based neural networks with mixed delays and parameter mismatches. Neural Computing and Applications, 2020, 32, 4615-4628.	3.2	6
4135	Exponential stability of periodic solution for a memristor-based inertial neural network with time delays. Neural Computing and Applications, 2020, 32, 3265-3281.	3.2	16
4136	Finite-Time Stability of Delayed Memristor-Based Fractional-Order Neural Networks. IEEE Transactions on Cybernetics, 2020, 50, 1607-1616.	6.2	87
4137	Delay-Distribution-Dependent \$H_infty\$ State Estimation for Discrete-Time Memristive Neural Networks With Mixed Time-Delays and Fading Measurements. IEEE Transactions on Cybernetics, 2020, 50, 440-451.	6.2	87
4138	Finite-time synchronisation and passivity of coupled memristive neural networks. International Journal of Control, 2020, 93, 2824-2837.	1.2	31
4139	Exponential Stabilization of Stochastic Memristive Recurrent Neural Networks Under Periodically Intermittent State Feedback Control. Asian Journal of Control, 2020, 22, 897-907.	1.9	6
4140	Memristors: Properties, Models, Materials. Modeling and Optimization in Science and Technologies, 2020, , 13-40.	0.7	6
4141	A Switched Operation Approach to Sampled-Data Control Stabilization of Fuzzy Memristive Neural Networks With Time-Varying Delay. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 891-900.	7.2	57
4142	Global Stabilization of Fractional-Order Memristor-Based Neural Networks With Time Delay. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 997-1009.	7. 2	139
4143	In-Memory Computing. , 2020, , .		0
4144	A novel CNFET based tunable memristor emulator. Microsystem Technologies, 2020, 26, 2173-2181.	1.2	4
4145	Complex dynamics from a novel memristive 6D hyperchaotic autonomous system. International Journal of Dynamics and Control, 2020, 8, 70-90.	1.5	14

#	Article	IF	CITATIONS
4146	Deep Learning Classifiers with Memristive Networks. Modeling and Optimization in Science and Technologies, 2020, , .	0.7	3
4147	Multi-level Memristive Memory for Neural Networks. Modeling and Optimization in Science and Technologies, 2020, , 103-116.	0.7	0
4148	Hidden Bursting Firings and Bifurcation Mechanisms in Memristive Neuron Model With Threshold Electromagnetic Induction. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 502-511.	7.2	231
4149	Stability and Chaotic Attractors of Memristor-Based Circuit with a Line of Equilibria. Lecture Notes in Electrical Engineering, 2020, , 639-644.	0.3	2
4150	Global projective lag synchronization of fractional order memristor based BAM neural networks with mixed time varying delays. Asian Journal of Control, 2020, 22, 570-583.	1.9	44
4151	Memristor Model Optimization Based on Parameter Extraction From Device Characterization Data. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 1084-1095.	1.9	19
4152	Lagrange Stability and Finite-Time Stabilization of Fuzzy Memristive Neural Networks With Hybrid Time-Varying Delays. IEEE Transactions on Cybernetics, 2020, 50, 2959-2970.	6.2	72
4153	Passivity Analysis for Quaternion-Valued Memristor-Based Neural Networks With Time-Varying Delay. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 639-650.	7.2	31
4154	Neuromemristive Circuits for Edge Computing: A Review. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4-23.	7.2	184
4155	On the validity of memristor modeling in the neural network literature. Neural Networks, 2020, 121, 52-56.	3.3	31
4156	Design of Hopfield network for cryptographic application by spintronic memristors. Neural Computing and Applications, 2020, 32, 9443-9452.	3.2	1
4159	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.	3.5	49
4160	Effects of Variable-Order Passive Circuit Element in Chua Circuit. Circuits, Systems, and Signal Processing, 2020, 39, 2293-2306.	1.2	2
4161	Energy estimation and coupling synchronization between biophysical neurons. Science China Technological Sciences, 2020, 63, 625-636.	2.0	58
4162	A Training-Efficient Hybrid-Structured Deep Neural Network With Reconfigurable Memristive Synapses. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2020, 28, 62-75.	2.1	22
4163	Synaptic functions and a memristive mechanism on Pt/AlO _{<i>x</i>} /HfO _{<i>x</i>} /TiN bilayer-structure memristors. Journal Physics D: Applied Physics, 2020, 53, 035302.	1.3	20
4165	Integral sliding mode synchronization control for Markovian jump inertial memristive neural networks with reaction–diffusion terms. Neurocomputing, 2020, 378, 324-334.	3.5	18
4166	Lagrange stability of delayed switched inertial neural networks. Neurocomputing, 2020, 381, 52-60.	3.5	20

#	Article	IF	CITATIONS
4167	SIMPLER MAGIC: Synthesis and Mapping of In-Memory Logic Executed in a Single Row to Improve Throughput. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 2434-2447.	1.9	46
4168	On the Synthesis of Unate Symmetric Function Using Memristor-Based Nano-Crossbar Circuit. Advances in Intelligent Systems and Computing, 2020, , 1-8.	0.5	0
4169	Finite Time Stability Analysis of Fractional-Order Complex-Valued Memristive Neural Networks with Proportional Delays. Neural Processing Letters, 2020, 51, 407-426.	2.0	42
4170	Exponential Stabilization Control of Delayed Quaternion-Valued Memristive Neural Networks: Vector Ordering Approach. Circuits, Systems, and Signal Processing, 2020, 39, 1353-1371.	1.2	8
4171	Complex Projection Synchronization of Fractional-Order Complex-Valued Memristive Neural Networks with Multiple Delays. Neural Processing Letters, 2020, 51, 325-345.	2.0	18
4172	Multistability of Almost Periodic Solution for Memristive Cohen-Grossberg Neural Networks With Mixed Delays. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1914-1926.	7.2	21
4173	Memristor-Based Design of Sparse Compact Convolutional Neural Network. IEEE Transactions on Network Science and Engineering, 2020, 7, 1431-1440.	4.1	69
4174	Dissipative Systems. Communications and Control Engineering, 2020, , 263-355.	1.0	1
4175	On the design and analysis of a compact array with 1T1R RRAM memory element. Analog Integrated Circuits and Signal Processing, 2020, 102, 27-37.	0.9	7
4176	Hysteretic Dynamics, Space Magnetization and Offset Boosting in a Third-Order Memristive System. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2020, 44, 413-429.	1.5	18
4178	Finite/fixed-time synchronization of delayed memristive reaction-diffusion neural networks. Neurocomputing, 2020, 375, 1-8.	3.5	29
4179	Exponential Stability and Sampled-Data Synchronization of Delayed Complex-Valued Memristive Neural Networks. Neural Processing Letters, 2020, 51, 193-209.	2.0	10
4180	Artificial Sensory Memory. Advanced Materials, 2020, 32, e1902434.	11.1	200
4181	Optimal quasi-synchronization of fractional-order memristive neural networks with PSOA. Neural Computing and Applications, 2020, 32, 9667-9682.	3.2	16
4182	Electrochemical and thermodynamic processes of metal nanoclusters enabled biorealistic synapses and leaky-integrate-and-fire neurons. Materials Horizons, 2020, 7, 71-81.	6.4	35
4183	Voltage Divider for Self-Limited Analog State Programing of Memristors. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 620-624.	2.2	10
4184	Review and comparative study of I-V characteristics of different memristor models with sinusoidal input. International Journal of Electronics, 2020, 107, 349-375.	0.9	14
4185	A Simple Floating Mutator for Emulating Memristor, Memcapacitor, and Meminductor. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1334-1338.	2.2	52

#	Article	IF	CITATIONS
4186	Flexible Monte-Carlo approach to simulate electroforming and resistive switching in filamentary metal-oxide memristive devices. Modelling and Simulation in Materials Science and Engineering, 2020, 28, 015007.	0.8	10
4187	Stability analysis and synchronization application for a 4D fractional-order system with infinite equilibria. Physica Scripta, 2020, 95, 015202.	1.2	5
4188	Passivity and passification of quaternionâ€valued memristive neural networks. Mathematical Methods in the Applied Sciences, 2020, 43, 2032-2044.	1.2	7
4189	Perceptrons from memristors. Neural Networks, 2020, 122, 273-278.	3.3	16
4190	A Stateful Logic Family Based on a New Logic Primitive Circuit Composed of Two Antiparallel Bipolar Memristors. Advanced Intelligent Systems, 2020, 2, 1900082.	3.3	36
4191	Finite-time synchronization of memristive Cohen–Grossberg neural networks with time delays. Neurocomputing, 2020, 377, 159-167.	3.5	33
4192	Implementation of circuit for reconfigurable memristive chaotic neural network and its application in associative memory. Neurocomputing, 2020, 380, 36-42.	3. 5	22
4193	Memristive autapse involving magnetic coupling and excitatory autapse enhance firing. Neurocomputing, 2020, 379, 296-304.	3.5	23
4194	High Frequency Meminductor Emulator Employing VDTA and its Application. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 2020-2028.	1.9	36
4195	Synchronization of Memristive Complex-Valued Neural Networks With Time Delays via Pinning Control Method. IEEE Transactions on Cybernetics, 2020, 50, 3806-3815.	6.2	76
4196	Exponential State Estimation for Stochastically Disturbed Discrete-Time Memristive Neural Networks: Multiobjective Approach. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 3168-3177.	7.2	12
4197	Threshold Switching in Single Metalâ€Oxide Nanobelt Devices Emulating an Artificial Nociceptor. Advanced Electronic Materials, 2020, 6, 1900595.	2.6	35
4198	Lyapunovâ€Krasovskii stability analysis of delayed Filippov system: Applications to neural networks with switching control. International Journal of Robust and Nonlinear Control, 2020, 30, 699-718.	2.1	8
4199	Intermittent Pinning Synchronization of Memristor-Based Switching Networks With Multi-Links and Mixed Delays. IEEE Access, 2020, 8, 7103-7116.	2.6	1
4200	Design of resistive random access memory cell and its architecture. Microsystem Technologies, 2020, 26, 1325-1332.	1.2	9
4201	Selective UVâ€Gating Organic Memtransistors with Modulable Levels of Synaptic Plasticity. Advanced Electronic Materials, 2020, 6, 1900955.	2.6	33
4202	Resistive switching behaviors in the BaTiO3/La0.7Sr0.3MnO3 layered heterostructure driven by external electric field. Journal of Magnetism and Magnetic Materials, 2020, 497, 165879.	1.0	6
4203	Gyrotropic slab waveguide coupled silica microfiber-based magnetic field sensor. Instrumentation Science and Technology, 2020, 48, 173-183.	0.9	1

#	Article	IF	Citations
4204	Application and Modeling of a Novel 4D Memristive Chaotic System for Communication Systems. Circuits, Systems, and Signal Processing, 2020, 39, 3320-3349.	1.2	23
4205	Insights into Multilevel Resistive Switching in Monolayer MoS ₂ . ACS Applied Materials & amp; Interfaces, 2020, 12, 6022-6029.	4.0	54
4206	A Memristor Neural Network Using Synaptic Plasticity and Its Associative Memory. Circuits, Systems, and Signal Processing, 2020, 39, 3496-3511.	1.2	30
4207	Artificial Perception Built on Memristive System: Visual, Auditory, and Tactile Sensations. Advanced Intelligent Systems, 2020, 2, 1900118.	3.3	53
4208	Memristive-synapse spiking neural networks based on single-electron transistors. Journal of Computational Electronics, 2020, 19, 435-450.	1.3	9
4209	Recursive second-order Volterra filter based on Dawson function for chaotic memristor system identification. Nonlinear Dynamics, 2020, 99, 3123-3142.	2.7	12
4210	Improved resistive switching behavior of multiwalled carbon nanotube/TiO2 nanorods composite film by increased oxygen vacancy reservoir. Materials Science in Semiconductor Processing, 2020, 108, 104907.	1.9	19
4211	Coexisting Three-Scroll and Four-Scroll Chaotic Attractors in a Fractional-Order System by a Three-Scroll Integer-Order Memristive Chaotic System and Chaos Control. Complexity, 2020, 2020, 1-7.	0.9	3
4212	Load characterization and power conditioner synthesis using higherâ€order elements. International Journal of Circuit Theory and Applications, 2020, 48, 254-265.	1.3	0
4213	Memristor and Trivium-based true random number generator. Physica A: Statistical Mechanics and Its Applications, 2020, 542, 124071.	1.2	18
4214	Lagrange stability for uncertain memristive neural networks with Lévy noise and leakage delay. Physica A: Statistical Mechanics and Its Applications, 2020, 549, 124167.	1.2	2
4215	Memristor-based vector neural network architecture. Chinese Physics B, 2020, 29, 028502.	0.7	7
4216	A VDTA-based robust electronically tunable memristor emulator circuit. Analog Integrated Circuits and Signal Processing, 2020, 104, 47-59.	0.9	17
4217	Stochastic and novel generic scalable window function-based deterministic memristor SPICE model comparison and implementation for synaptic circuit design. SN Applied Sciences, 2020, 2, 1.	1.5	5
4218	Reachable set bounding for a class of memristive complex-valued neural networks with disturbances. Neurocomputing, 2020, 385, 368-377.	3.5	9
4219	Global synchronization of coupled delayed memristive reaction–diffusion neural networks. Neural Networks, 2020, 123, 362-371.	3.3	30
4220	Inverse transition of labyrinthine domain patterns in ferroelectric thin films. Nature, 2020, 577, 47-51.	13.7	71
4221	A memristive dualâ€slope A/D converter. International Journal of Circuit Theory and Applications, 2020, 48, 42-55.	1.3	3

#	Article	IF	CITATIONS
4222	Finite-time nonfragile time-varying proportional retarded synchronization for Markovian Inertial Memristive NNs with reaction–diffusion items. Neural Networks, 2020, 123, 317-330.	3.3	39
4223	Interval matrix method based synchronization criteria for fractional-order memristive neural networks with multiple time-varying delays. Journal of the Franklin Institute, 2020, 357, 1707-1733.	1.9	30
4224	Finite-Time Mittag-Leffler Stability of Fractional-Order Quaternion-Valued Memristive Neural Networks with Impulses. Neural Processing Letters, 2020, 51, 1485-1526.	2.0	84
4225	Quantized synchronization of memristive neural networks with time-varying delays via super-twisting algorithm. Neurocomputing, 2020, 380, 133-140.	3.5	31
4226	Adaptive synchronization of memristor-based neural networks with discontinuous activations. Neurocomputing, 2020, 381, 196-206.	3.5	13
4227	Global Stabilization of Fuzzy Memristor-Based Reaction–Diffusion Neural Networks. IEEE Transactions on Cybernetics, 2020, 50, 4658-4669.	6.2	40
4228	Efficient implementation of synaptic learning rules for neuromorphic computing based on plasma-treated ZnO nanowire memristors. Journal Physics D: Applied Physics, 2020, 53, 055303.	1.3	7
4229	Handling Stuck-at-Fault Defects Using Matrix Transformation for Robust Inference of DNNs. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 2448-2460.	1.9	25
4230	Passivity and passification of memristive recurrent neural networks with multi-proportional delays and impulse. Applied Mathematics and Computation, 2020, 369, 124838.	1.4	25
4231	Synchronization of coupled memristive neural networks with actuator saturation and switching topology. Neurocomputing, 2020, 383, 138-150.	3.5	23
4232	Bipartite synchronization for inertia memristor-based neural networks on coopetition networks. Neural Networks, 2020, 124, 39-49.	3.3	31
4233	Control of the neuromorphic learning behavior based on the aggregation of thiol-protected Ag-Ag ₂ S core–shell nanoparticles. Japanese Journal of Applied Physics, 2020, 59, 015001.	0.8	9
4234	Exploring the "resistance change per energy unit―as universal performance parameter for resistive switching devices. Solid-State Electronics, 2020, 165, 107748.	0.8	7
4235	A new random diffusion algorithm based on the multi-scroll Chua's chaotic circuit system. Optics and Lasers in Engineering, 2020, 127, 105905.	2.0	40
4236	Design and implementation of a simple dynamical 4-D chaotic circuit with applications in image encryption. Information Sciences, 2020, 515, 191-217.	4.0	169
4237	Hidden extreme multistability with hyperchaos and transient chaos in a Hopfield neural network affected by electromagnetic radiation. Nonlinear Dynamics, 2020, 99, 2369-2386.	2.7	131
4238	New results of projective synchronization for memristor-based coupled neural networks. Physica A: Statistical Mechanics and Its Applications, 2020, 545, 123739.	1.2	2
4239	Complete dynamical analysis of myocardial cell exposed to magnetic flux. Chinese Journal of Physics, 2020, 64, 363-373.	2.0	6

#	Article	IF	CITATIONS
4240	Heterogeneous stimuli induced nonassociative learning behavior in ZnO nanowire memristor. Nanotechnology, 2020, 31, 125201.	1.3	14
4241	Aluminum promoted sulfidation of ammonium perrhenate: Presence of nanobattery in the ReS2 composite material based memcapacitor. Chemical Engineering Journal, 2020, 392, 123745.	6.6	5
4242	An efficient memristor crossbar architecture for mapping Boolean functions using Binary Decision Diagrams (BDD). The Integration VLSI Journal, 2020, 71, 125-133.	1.3	15
4243	2D Layered Materials for Memristive and Neuromorphic Applications. Advanced Electronic Materials, 2020, 6, 1901107.	2.6	85
4244	Multilayer Metalâ€Oxide Memristive Device with Stabilized Resistive Switching. Advanced Materials Technologies, 2020, 5, 1900607.	3.0	78
4245	An Optoneuronic Device with Realistic Retinal Expressions for Bioinspired Machine Vision. Advanced Intelligent Systems, 2020, 2, 1900115.	3.3	10
4246	Chaotic and subharmonic oscillations in a DC–DC boost converter with PWM voltage–current hybrid controller and parallel MR load. Nonlinear Dynamics, 2020, 99, 1321-1339.	2.7	5
4247	A bridge technique for memristor state programming. International Journal of Electronics, 2020, 107, 1015-1030.	0.9	3
4248	Global exponential synchronization of delayed memristive neural networks with reaction–diffusion terms. Neural Networks, 2020, 123, 70-81.	3.3	85
4249	Roadmap on halide perovskite and related devices. Nanotechnology, 2020, 31, 152001.	1.3	24
4250	A new chaotic circuit with multiple memristors and its application in image encryption. Nonlinear Dynamics, 2020, 99, 1489-1506.	2.7	82
4251	A discretely adaptive connection logic network. Neurocomputing, 2020, 380, 285-305.	3.5	0
4252	Simulations of Memristors Using the Poincar \tilde{A} © Map Approach. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 963-971.	3.5	5
4253	Highly bendable asymmetric resistive switching memory based on zinc oxide and magnetic iron oxide heterojunction. Journal of Materials Science: Materials in Electronics, 2020, 31, 1105-1115.	1.1	16
4254	Soft eSkin: distributed touch sensing with harmonized energy and computing. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190156.	1.6	70
4255	Event-Triggered Exponential Synchronization for Complex-Valued Memristive Neural Networks With Time-Varying Delays. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4104-4116.	7.2	60
4256	Artificial Optoelectronic Synapses Based on Ferroelectric Field-Effect Enabled 2D Transition Metal Dichalcogenide Memristive Transistors. ACS Nano, 2020, 14, 746-754.	7.3	190
4257	Charged Controlled Mem-Element Emulator and Its Application in a Chaotic System. IEEE Access, 2020, 8, 171397-171407.	2.6	41

#	Article	IF	CITATIONS
4258	3D Memristor Crossbar Architecture for a Multicore Neuromorphic System., 2020,,.		6
4259	Reservoir Computing with Neuromemristive Nanowire Networks. , 2020, , .		20
4260	A Reconfigurable CMOS-Memristor Active Inductor. , 2020, , .		0
4261	A Voltage-Driven Window Function Concept for Behavioral Memristor Device Modeling. , 2020, , .		O
4262	Mathematic Modeling and Circuit Implementation on Multi-Valued Memristor. , 2020, , .		0
4263	Experimental Body-Input Three-Stage DC Offset Calibration Scheme for Memristive Crossbar. , 2020, , .		1
4264	A Pipelined Memristive Neural Network Analog-to-Digital Converter. , 2020, , .		5
4265	Meminductor Emulator Based on a Modified Antoniou's Gyrator Circuit. Electronics (Switzerland), 2020, 9, 1407.	1.8	20
4266	Neuromorphic Computing Using Emerging Synaptic Devices: A Retrospective Summary and an Outlook. Electronics (Switzerland), 2020, 9, 1414.	1.8	35
4267	Improved Stability and Controllability in ZrN-Based Resistive Memory Device by Inserting TiO2 Layer. Micromachines, 2020, 11, 905.	1.4	9
4268	Forced synchronization of an oscillator with a line of equilibria. European Physical Journal: Special Topics, 2020, 229, 2215-2224.	1.2	8
4269	A Novel Hardware Security Architecture for IoT Device: PD-CRP (PUF Database and Challenge–Response) Tj ET	Qq] 1 0.78	84314 rgBT
4270	Chaotic circuit with OTA based memristor on image cryptology. AEU - International Journal of Electronics and Communications, 2020, 127, 153490.	1.7	16
4271	Design and implementation of a new memristive chaotic system with application in touchless fingerprint encryption. Chinese Journal of Physics, 2020, 67, 615-630.	2.0	20
4272	Finite-Time Synchronization of Multi-Linked Memristor-Based Neural Networks With Mixed Time-Varying Delays. IEEE Access, 2020, 8, 169966-169981.	2.6	3
4273	Wrinkledâ€Surfaceâ€Induced Memristive Behavior of MoS 2 Wrapped GaN Nanowires. Advanced Electronic Materials, 2020, 6, 2000571.	2.6	4
4274	Design of a hyperchaotic memristive circuit based on wien bridge oscillator. Computers and Electrical Engineering, 2020, 88, 106826.	3.0	24
4275	Synchronization of Memristor-Based Coupled Neural Networks with Delay via Intermittent Coupling. , 2020, , .		3

#	Article	IF	Citations
4276	Controlling Real Memristors in Embedded Systems. , 2020, , .		0
4277	A Meminductor Emulator Based on Flux-controlled Model Using Field Programmable Analog Array. , 2020, , .		5
4278	Coexisting Multi-Dynamics of a Physical SBT Memristor-Based Chaotic Circuit. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2030043.	0.7	13
4279	Structure determination and negative differential resistance of tetraarylporphyrin/polyoxometalate 2 : 1 complexes. Journal of Materials Chemistry C, 2020, 8, 14423-14430.	2.7	10
4280	Coexisting hidden and self-excited attractors in a locally active memristor-based circuit. Chaos, 2020, 30, 103123.	1.0	20
4281	New chaotic memristive cellular neural network and its application in secure communication system. Chaos, Solitons and Fractals, 2020, 141, 110316.	2.5	51
4282	A feasible neuron for estimating the magnetic field effect. Nonlinear Dynamics, 2020, 102, 1849-1867.	2.7	67
4283	On the dynamics of a seventh-order generalized Hénon-Heiles potential. Results in Physics, 2020, 18, 103278.	2.0	5
4284	Memristor-Based Logic Gate Circuit. , 2020, , .		2
4285	Revisiting Memristor Properties. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050172.	0.7	6
4286	Memristive Devices for Neuromorphic Applications: Comparative Analysis. BioNanoScience, 2020, 10, 834-847.	1.5	24
4287	Iridium-based polymer for memristive devices with integrated logic and arithmetic applications. Journal of Materials Chemistry C, 2020, 8, 16845-16857.	2.7	8
4288	DNA encoding for RGB image encryption with memristor based neuron model and chaos phenomenon. Microelectronics Journal, 2020, 104, 104878.	1.1	33
4289	Emerging Memristive Artificial Synapses and Neurons for Energyâ€Efficient Neuromorphic Computing. Advanced Materials, 2020, 32, e2004659.	11.1	175
4290	Global Stabilization of Memristive Neural Networks with Leakage and Time-Varying Delays Via Quantized Sliding-Mode Controller. Neural Processing Letters, 2020, 52, 2451-2468.	2.0	2
4291	altimg="si7.svg"> <mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mi>and <mml:math altimg="si8.svg" display="inline" id="d1e656" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>l</mml:mi></mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:m< td=""><td></td><td></td></mml:m<></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:msub></mml:math></mml:mi></mml:mrow></mml:msub>		
4292	Fabrication and characterization of resistive random access memory (ReRAM) devices using molybdenum trioxide (MoO3) as switching layer. Superlattices and Microstructures, 2020, 147, 106682.	1.4	21
4293	Monitoring PSA levels as chemical state-variables in metal-oxide memristors. Scientific Reports, 2020, 10, 15281.	1.6	6

#	Article	IF	CITATIONS
4294	Memristorâ€based stateful logic gates for multiâ€functional logic circuit. IET Circuits, Devices and Systems, 2020, 14, 811-818.	0.9	13
4295	Phase separation in amorphous tantalum oxide from first principles. APL Materials, 2020, 8, .	2.2	12
4296	Extremely rich dynamics in a memristor-based chaotic system. European Physical Journal Plus, 2020, 135, 1.	1.2	35
4297	Tunable Memristor Emulator using Off-The-Shelf components. Procedia Computer Science, 2020, 171, 1064-1073.	1.2	10
4298	Analysis of memristor-based differentiating circuit. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2020, 39, 683-690.	0.5	0
4299	A comparative study on the forming methods of chalcogenide memristors to optimize the resistive switching performance. Journal Physics D: Applied Physics, 2020, 53, 445108.	1.3	4
4300	Extreme Multistability and Complex Dynamics of a Memristor-Based Chaotic System. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2030019.	0.7	56
4301	Optoelectronic Synapses Based on Hot-Electron-Induced Chemical Processes. Nano Letters, 2020, 20, 1536-1541.	4.5	19
4302	Synchronization for commensurate Riemann-Liouville fractional-order memristor-based neural networks with unknown parameters. Journal of the Franklin Institute, 2020, 357, 8870-8898.	1.9	20
4303	Halide perovskite memtransistor enabled by ion migration. Japanese Journal of Applied Physics, 2020, 59, 081002.	0.8	15
4304	A New Meminductor Based Hyperchaotic Circuit and its Implementation. Mobile Networks and Applications, 2023, 28, 542-550.	2.2	0
4305	Area-Efficient and Reliable Error Correcting Code Circuit Based on Hybrid CMOS/Memristor Circuit. Journal of Electronic Testing: Theory and Applications (JETTA), 2020, 36, 537-546.	0.9	1
4306	Performance Analysis and Evaluation of Frequency-Locked Loop for Weak GNSS Signals Based on Spectral Line Interpolation. IEEE Access, 2020, 8, 122396-122404.	2.6	2
4307	Design of <i>In-Situ</i> Learning Bidirectional Associative Memory Neural Network Circuit With Memristor Synapse. IEEE Transactions on Emerging Topics in Computational Intelligence, 2021, 5, 743-754.	3.4	18
4308	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
4310	Convolution Kernel Operations on a Two-Dimensional Spin Memristor Cross Array. Sensors, 2020, 20, 6229.	2.1	0
4311	Structural, electronic, and electrical behaviour of MWCNTs: TiO2 (:SiO2) nanocomposites. Journal of Electron Spectroscopy and Related Phenomena, 2020, 245, 147002.	0.8	1
4312	All Wired Up: An Exploration of the Electrical Properties of Microtubules and Tubulin. ACS Nano, 2020, 14, 16301-16320.	7.3	22

#	Article	IF	CITATIONS
4313	From Memristive Materials to Neural Networks. ACS Applied Materials & Samp; Interfaces, 2020, 12, 54243-54265.	4.0	56
4314	Memristors: Understanding, Utilization and Upgradation for Neuromorphic Computing. Nano, 2020, 15, 2030005.	0.5	2
4315	A Phasor Analysis Method for Charge-Controlled Memory Elements. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2030041.	0.7	8
4316	Electrical response of plants to environmental stimuli: A short review and perspectives for meteorological applications. Sensors International, 2020, 1, 100053.	4.9	7
4317	Memristors—From Inâ€Memory Computing, Deep Learning Acceleration, and Spiking Neural Networks to the Future of Neuromorphic and Bioâ€Inspired Computing. Advanced Intelligent Systems, 2020, 2, 2000085.	3.3	143
4318	Exponential synchronization of stochastic delayed memristive neural networks via a novel hybrid control. Neural Networks, 2020, 131, 242-250.	3.3	14
4319	Memristor-based LSTM network with in situ training and its applications. Neural Networks, 2020, 131, 300-311.	3.3	30
4320	SO-OTA Based Emulator Circuit for Extended Memristor with Hysteresis Loop of Type II. , 2020, , .		1
4321	High Level Modeling of Memristive Crossbar Arrays. , 2020, , .		1
4322	Current Comparator-Based Reconfigurable Adder and Multiplier on Hybrid Memristive Crossbar. , 2020, , .		1
4323	Memristive Computational Memory Using Memristor Overwrite Logic (MOL). IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2020, 28, 2370-2382.	2.1	16
4324	Hearts are Poised Near the Edge of Chaos. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2030023.	0.7	9
4325	Variation-tolerant, low-power, and high endurance read scheme for memristor memories. Analog Integrated Circuits and Signal Processing, 2020, 105, 83-98.	0.9	4
4327	Synaptic plasticity of TiO2 nanowire transistor. Microelectronics International, 2020, 37, 125-130.	0.4	4
4328	Input–Output Characterization of the Dynamical Properties of Circuits with a Memelement. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050110.	0.7	8
4329	A New Fixed-Time Stability Criterion and Its Application to Synchronization Control of Memristor-Based Fuzzy Inertial Neural Networks with Proportional Delay. Neural Processing Letters, 2020, 52, 1291-1315.	2.0	6
4330	Binary memcapacitor based first-order active filter. Circuit World, 2020, 46, 117-124.	0.7	4
4331	Memristor emulator – a nonlinear load for reduction of ferroresonance in a single-phase transformer. Circuit World, 2020, 47, 87-96.	0.7	1

#	Article	IF	CITATIONS
4332	Multistability and Formation of Spiral Waves in a Fractional-Order Memristor-Based Hyperchaotic LÃ $\frac{1}{4}$ System with No Equilibrium Points. Mathematical Problems in Engineering, 2020, 2020, 1-12.	0.6	16
4333	Impulsive effects on stability and passivity analysis of memristor-based fractional-order competitive neural networks. Neurocomputing, 2020, 417, 290-301.	3.5	118
4334	Stimuliâ€Enabled Artificial Synapses for Neuromorphic Perception: Progress and Perspectives. Small, 2020, 16, e2001504.	5.2	55
4335	The missing mem-inerter and extended mem-dashpot found. Nonlinear Dynamics, 2020, 101, 835-856.	2.7	17
4336	Fixed-Time Synchronization of Complex-Valued Memristor-Based Neural Networks with Impulsive Effects. Neural Processing Letters, 2020, 52, 1263-1290.	2.0	13
4337	Programmable Photoelectric Memristor Gates for In Situ Image Compression. Advanced Intelligent Systems, 2020, 2, 2000079.	3.3	10
4338	Electronically tunable meminductor based on OTA. AEU - International Journal of Electronics and Communications, 2020, 126, 153391.	1.7	29
4339	A Novel Voltage-Controlled Tri-Valued Memristor and Its Application in Chaotic System. Complexity, 2020, 2020, 1-8.	0.9	7
4340	Nanoionic Redox based Resistive Switching Devices as Synapse for Bio-inspired Computing Architectures: A Survey. , 2020, , .		2
4341	Analysis of Radiation Impact on Memristive Crossbar Arrays. , 2020, , .		2
4342	Geometric Analysis of the Doppler Frequency for General Non-Stationary 3D Mobile-to-Mobile Channels Based on Prolate Spheroidal Coordinates. IEEE Transactions on Vehicular Technology, 2020, 69, 10419-10434.	3.9	6
4343	TVARAK: Software-Managed Hardware Offload for Redundancy in Direct-Access NVM Storage., 2020,,.		5
4344	Allâ€Inorganic Ionic Polymerâ€Based Memristor for Highâ€Performance and Flexible Artificial Synapse. Advanced Functional Materials, 2020, 30, 2004245.	7.8	36
4345	Finite-time synchronization control of fractional-order memristive neural networks with time varying delays. , 2020, , .		0
4346	Full Adder Circuit using Multi-Input MRL. , 2020, , .		3
4347	Transiently chaotic simulated annealing based on intrinsic nonlinearity of memristors for efficient solution of optimization problems. Science Advances, 2020, 6, eaba9901.	4.7	51
4348	Multiple negative differential resistance in perovskite (CH3NH3PbI3) decorated electrospun TiO2 nanofibers. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	4
4349	Event-Triggered Fault Detection Filter Design for Discrete-Time Memristive Neural Networks With Time Delays. IEEE Transactions on Cybernetics, 2022, 52, 3359-3369.	6.2	24

#	Article	IF	CITATIONS
4350	Variable-sampling-period dependent global stabilization of delayed memristive neural networks based on refined switching event-triggered control. Science China Information Sciences, 2020, 63, 1.	2.7	46
4351	Implementation and Optimization of Chemical Logic Gates Using Memristive Cellular Automata. , 2020, , .		5
4352	Memristive Learning Cellular Automata: Theory and Applications. , 2020, , .		3
4353	Impact of Memristor Defects in a Neuromorphic Radionuclide Identification System., 2020, , .		0
4354	The First Experimental Evidence of Chaos from a Nonlinear Circuit with a Real Memristor. , 2020, , .		4
4355	Comments on "Chaotic oscillator based on memcapacitor and meminductor―(Nonlinear Dyn, DOI:) Tj ETQq1	1.0.7843	1 ₃ 4 rgBT /O
4356	A self-powered analog sensor-data-logging device based on Fowler-Nordheim dynamical systems. Nature Communications, 2020, $11,5446$.	5. 8	12
4357	Sneak Path Characterization in Memristor Crossbar Circuits. International Journal of Electronics, 2021, 108, 1255-1272.	0.9	8
4358	Projective synchronization of fuzzy memristive neural networks with pinning impulsive control. Journal of the Franklin Institute, 2020, 357, 10387-10409.	1.9	38
4359	Ideal memcapacitors and meminductors are overunity devices. Scientific Reports, 2020, 10, 16688.	1.6	6
4360	On the Use of Memristive Hyperchaotic System to Design Color Image Encryption Scheme. IEEE Access, 2020, 8, 182240-182248.	2.6	5
4361	Exponential <i>H</i> _{â^ž} State Estimation for Memristive Neural Networks: Vector Optimization Approach. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 5061-5071.	7.2	6
4362	Exact In-Memory Multiplication Based on Deterministic Stochastic Computing. , 2020, , .		6
4363	Nonlinear Fractional-Order Circuits and Systems: Motivation, A Brief Overview, and Some Future Directions. IEEE Open Journal of Circuits and Systems, 2020, 1, 220-232.	1.4	13
4364	Passivity and Dissipativity of Fractional-Order Quaternion-Valued Fuzzy Memristive Neural Networks: Nonlinear Scalarization Approach. IEEE Transactions on Cybernetics, 2022, 52, 2821-2832.	6.2	23
4365	Global Exponential Stability of Memristive Neural Networks With Mixed Time-Varying Delays. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3690-3699.	7.2	16
4366	Memristor-CNTFET based Ternary Full Adders. , 2020, , .		12
4367	An LMI Based State Estimation for Fractional-Order Memristive Neural Networks with Leakage and Time Delays. Neural Processing Letters, 2020, 52, 2089-2108.	2.0	12

#	Article	IF	CITATIONS
4368	Recent Progress on Memristive Convolutional Neural Networks for Edge Intelligence. Advanced Intelligent Systems, 2020, 2, 2000114.	3.3	19
4369	Design of 4-bit ALU using TEAM Memristor Model and CMOS Logic. , 2020, , .		2
4370	Hyperchaotic Behavior in the Novel Memristor-Based Symmetric Circuit System. IEEE Access, 2020, 8, 151535-151545.	2.6	9
4371	A New 4D Four-Wing Memristive Hyperchaotic System: Dynamical Analysis, Electronic Circuit Design, Shape Synchronization and Secure Communication. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050147.	0.7	77
4372	Smart Antenna System with Memcapacitors. , 2020, , .		0
4373	Enhancing LiAlO _X synaptic performance by reducing the Schottky barrier height for deep neural network applications. Nanoscale, 2020, 12, 22970-22977.	2.8	10
4374	New Results on Synchronization of Fractional-Order Memristorâ€Based Neural Networks via State Feedback Control. Complexity, 2020, 2020, 1-11.	0.9	2
4375	Complex dynamics of a modified four order Wien-bridge oscillator model and FPGA implementation. European Physical Journal Plus, 2020, 135, 1.	1.2	5
4376	Finite-Time Stabilization of Memristor Neural Networks with Time-Varying Delay: Interval Matrix Method. , 2020, , .		0
4377	Synchronous Dynamics in Multilayer Memristive Neural Networks: Effect of Electromagnetic Induction. IEEE Access, 2020, 8, 164727-164736.	2.6	9
4378	Inâ€Memory Vectorâ€Matrix Multiplication in Monolithic Complementary Metal–Oxide–Semiconductorâ€Memristor Integrated Circuits: Design Choices, Challenges, and Perspectives. Advanced Intelligent Systems, 2020, 2, 2000115.	3.3	100
4379	A Highâ€Performance Memristor Device and Its Filter Circuit Application. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000389.	1.2	7
4380	Analogue pattern recognition with stochastic switching binary CMOS-integrated memristive devices. Scientific Reports, 2020, 10, 14450.	1.6	23
4381	Analysis of the Impact of Wire Resistance on Nano-scale Memristor Crossbar Array Implementing Perceptron Neural Network. IOP Conference Series: Materials Science and Engineering, 2020, 894, 012002.	0.3	0
4382	Parallel-Type Asymmetric Memristive Diode-Bridge Emulator and Its Induced Asymmetric Attractor. IEEE Access, 2020, 8, 156299-156307.	2.6	10
4383	Jamming, fragility and pinning phenomena in superconducting vortex systems. Scientific Reports, 2020, 10, 11625.	1.6	3
4384	Electrical Conduction Characteristic of a 2D MXene Device with Cu/Cr2C/TiN Structure Based on Density Functional Theory. Materials, 2020, 13, 3671.	1.3	7
4385	Oxygen vacancy injection-induced resistive switching in combined mobile and static gradient doped tin oxide nanorods. Nanoscale, 2020, 12, 18322-18332.	2.8	2

#	Article	IF	Citations
4386	Finite-Time Boundedness of QVMNNs with Time-Varying Delays. , 2020, , .		0
4387	Integration Of Lift-Off Based Lithography Process For Memristor Fabrication. , 2020, , .		2
4388	New results on stability analysis and extended dissipative conditions for uncertain memristive neural networks with two additive timeâ€varying delay components and reactionâ€diffusion terms. International Journal of Robust and Nonlinear Control, 2020, 30, 6535-6568.	2.1	16
4389	Integrated graphene oxide resistive element in tunable RF filters. Scientific Reports, 2020, 10, 13128.	1.6	14
4390	TopoTag: A Robust and Scalable Topological Fiducial Marker System. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 3769-3780.	2.9	23
4391	Memristive Devices for New Computing Paradigms. Advanced Intelligent Systems, 2020, 2, 2000105.	3.3	57
4392	Finite-Time Anti-Synchronization Control of Memristive Neural Networks with Time Delays., 2020,,.		O
4393	A memristor-based generalization and differentiation circuit design and the application in recognition. , 2020, , .		5
4394	Design and Analysis of Nonvolatile Memristor-based S-R Latch. , 2020, , .		2
4395	Digital Memristor emulator based on threshold adaptive model. , 2020, , .		1
4396	Design and properties of logic circuits based on memristor devices. , 2020, , .		1
4397	Synapse design based on memristor., 2020,,.		3
4398	High-Frequency Memristor-Based BFSK and 8-QAM Demodulators. , 2020, , .		1
4399	Pattern Characterization in Second Order Memristor Networks. , 2020, , .		2
4400	A Highly Stable and Robust 7T SRAM Cell using Memristor. , 2020, , .		5
4401	A New Model of Associative Memory Neural Network Based on An Improved Memristor., 2020,,.		2
4402	In-Memory Logic Operations and Neuromorphic Computing in Non-Volatile Random Access Memory. Materials, 2020, 13, 3532.	1.3	31
4403	Memristor Behavior under Dark and Violet Illumination in Thin Films of ZnO/ZnO-Al Multilayers. , 0, , .		0

#	Article	IF	CITATIONS
4404	Analyzing Fault Tolerance Behaviour in Memristor-based Crossbar for Neuromorphic Applications. , 2020, , .		6
4405	Projective Synchronization of a Fifth-order Memristor-Based Chaotic Circuit., 2020, , .		0
4406	A dual memristive Wien-bridge chaotic system with variable amplitude and frequency. Chaos, 2020, 30, 123117.	1.0	6
4407	Design thinking for innovation in 3D VR Over-Voltage Protection with Memristor. , 2020, , .		0
4408	All Pinched Hysteresis Loops Generated by $(\hat{l}_{\pm}, \hat{l}^2)$ Elements: in What Coordinates They May be Observable. IEEE Access, 2020, 8, 199179-199186.	2.6	3
4409	MTL: Memristor Ternary Logic Design. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050222.	0.7	14
4410	Behavioral Modeling and STDP Learning Characteristics of a Memristive Synapse., 2020,,.		3
4411	Spin-Filtering Ferroelectric Tunnel Junctions as Multiferroic Synapses for Neuromorphic Computing. ACS Applied Materials & Samp; Interfaces, 2020, 12, 56300-56309.	4.0	37
4412	Features of the development of a mathematical model of an electric multipole with memresistive branches for nanoelectronic components of quantum computing systems. IOP Conference Series: Materials Science and Engineering, 2020, 976, 012010.	0.3	0
4413	Static mode of the mathematical model of an electric multipole with memresistive branches in conditions of interval uncertainty. IOP Conference Series: Materials Science and Engineering, 2020, 976, 012012.	0.3	0
4414	Realization of Memristive State Machine for Smart Edge Detector Applications. IETE Journal of Research, 2023, 69, 1249-1259.	1.8	0
4415	Towards In-Memory Computing: Arithmetic Operations on Real Memristors. , 2020, , .		O
4416	Growth and Interlayer Engineering of 2D Layered Semiconductors for Future Electronics. ACS Nano, 2020, 14, 16266-16300.	7.3	30
4417	Amoeba-inspired analog electronic computing system integrating resistance crossbar for solving the travelling salesman problem. Scientific Reports, 2020, 10, 20772.	1.6	8
4418	Opto-electronic memristors: Prospects and challenges in neuromorphic computing. Applied Physics Letters, 2020, 117, .	1.5	39
4419	Resistive Switching in Electrodeposited Prussian Blue Layers. Materials, 2020, 13, 5618.	1.3	9
4420	Ideal memristor based on viscous magnetization dynamics driven by spin torque. Applied Physics Letters, 2020, 117, .	1.5	6
4421	A Dream that has Come True: Chaos from a Nonlinear Circuit with a Real Memristor. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2030036.	0.7	28

#	Article	IF	CITATIONS
4422	Fabrication and Characterization of Simple Structure Fluidic-Based Memristor for Immunosensing of NS1 Protein Application. Biosensors, 2020, 10, 143.	2.3	3
4423	Random Number Generator with Long-Range Dependence and Multifractal Behavior Based on Memristor. Electronics (Switzerland), 2020, 9, 1607.	1.8	4
4424	UAV identification system based on memristor physical unclonable functions. , 2020, , .		2
4425	Neuromorphic Engineering: From Biological to Spikeâ€Based Hardware Nervous Systems. Advanced Materials, 2020, 32, e2003610.	11.1	153
4426	Initial offset boosting coexisting attractors in memristive multi-double-scroll Hopfield neural network. Nonlinear Dynamics, 2020, 102, 2821-2841.	2.7	124
4427	Memristive Oscillatory Circuits for Resolution of NP-Complete Logic Puzzles: Sudoku Case. , 2020, , .		11
4428	Event-Triggered Synchronization for Memristor-Based Neural Networks., 2020,,.		0
4429	Organic dye-sensitized f-MWCNTs-TiO2 composite for optically controlled resistive switching memory applications. Optical Materials, 2020, 109, 110333.	1.7	12
4430	Unsupervised Learning Implemented by Ti ₃ C ₂ -MXene-Based Memristive Neuromorphic System. ACS Applied Electronic Materials, 2020, 2, 3497-3501.	2.0	11
4431	A physical memristor based Muthuswamy–Chua–Ginoux system. Scientific Reports, 2020, 10, 19206.	1.6	23
4432	Locally Active Memristor with Three Coexisting Pinched Hysteresis Loops and Its Emulator Circuit. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050184.	0.7	39
4433	Semiconductor Nanostructures for Modern Electronics. Solid State Phenomena, 2020, 310, 65-80.	0.3	3
4434	Experimental Studies on the Dynamic Memcapacitance Modulation of the ReO3@ReS2 Composite Material-Based Diode. Nanomaterials, 2020, 10, 2103.	1.9	4
4435	Experimental evaluation of the dynamic route map in the reset transition of memristive ReRAMs. Chaos, Solitons and Fractals, 2020, 139, 110288.	2.5	20
4436	Efficient Implementation of Memristor Cellular Nonlinear Networks using Stochastic Computing. , 2020, , .		2
4437	Memory technologyâ€"a primer for material scientists. Reports on Progress in Physics, 2020, 83, 086501.	8.1	64
4438	Passivity and Synchronization of Coupled Reaction-Diffusion Complex-Valued Memristive Neural Networks. Applied Mathematics and Computation, 2020, 379, 125271.	1.4	25
4439	Lagrange exponential stability of quaternionâ€valued memristive neural networks with time delays. Mathematical Methods in the Applied Sciences, 2020, 43, 7269-7291.	1.2	32

#	Article	IF	Citations
4440	Two-Dimensional Unipolar Memristors with Logic and Memory Functions. Nano Letters, 2020, 20, 4144-4152.	4.5	50
4441	Flexible Resistive Switching Memory with a Schottky Diode Function Based on a Zinc Oxide/Methylene Blue Heterojunction. Journal of Electronic Materials, 2020, 49, 4764-4772.	1.0	11
4442	Fully memristive spiking-neuron learning framework and its applications on pattern recognition and edge detection. Neurocomputing, 2020, 403, 80-87.	3.5	24
4443	A novel versatile window function for memristor model with application in spiking neural network. Neurocomputing, 2020, 405, 239-246.	3.5	22
4444	Training memristor-based multilayer neuromorphic networks with SGD, momentum and adaptive learning rates. Neural Networks, 2020, 128, 142-149.	3.3	22
4445	Cellular Automata coupled with Memristor devices: A fine unconventional computing paradigm. , 2020, , .		4
4446	Alphanumeric Pattern Recognition by Memristive Crossbar Circuit using Perceptron Learning Rule. Journal of Circuits, Systems and Computers, 2020, 29, 2050228.	1.0	1
4447	The application of halide perovskites in memristors. Journal of Semiconductors, 2020, 41, 051205.	2.0	22
4448	Hyperchaotic Oscillation in the Deformed Rikitake Two-Disc Dynamo System Induced by Memory Effect. Complexity, 2020, 2020, 1-10.	0.9	3
4449	Carbazole Derivatized nâ€Alkyl Methacrylate Polymeric Memristors as Flexible Synaptic Substitutes. Advanced Electronic Materials, 2020, 6, 2000042.	2.6	8
4450	A simple locally active memristor and its application in HR neurons. Chaos, 2020, 30, 053118.	1.0	85
4451	In-memory computing to break the memory wall*. Chinese Physics B, 2020, 29, 078504.	0.7	28
4452	On synchronization of competitive memristor-based neural networks by nonlinear control. Neurocomputing, 2020, 410, 151-160.	3.5	6
4453	Modeling and Simulation of Gated Memristor. Materials Today: Proceedings, 2020, 24, 1777-1787.	0.9	4
4454	Photo-induced resistive switching in CdS-sensitized TiO2 nanorod array memristive device. Journal of Materials Science: Materials in Electronics, 2020, 31, 10919-10929.	1.1	14
4455	Weighted sum synchronization of memristive coupled neural networks. Neurocomputing, 2020, 403, 211-223.	3.5	37
4456	Ferroelectric Domain Wall Memristor. Advanced Functional Materials, 2020, 30, 2000109.	7.8	86
4457	Bipolar-resistive switching and memristive properties of solution-processable cobalt oxide nanoparticles. Journal of Materials Science: Materials in Electronics, 2020, 31, 9695-9704.	1.1	12

#	ARTICLE	IF	Citations
4458	Firing patterns of an improved Izhikevich neuron model under the effect of electromagnetic induction and noise. Chaos, Solitons and Fractals, 2020, 137, 109782.	2.5	66
4459	A Qualitative Study of Materials and Fabrication Methodologies for Two Terminal Memristive Systems. Materials Today: Proceedings, 2020, 22, 1628-1637.	0.9	2
4460	A new fractional-order hyperchaotic memristor oscillator: Dynamic analysis, robust adaptive synchronization, and its application to voice encryption. Applied Mathematics and Computation, 2020, 383, 125310.	1.4	101
4461	Biomemristors as the next generation bioelectronics. Nano Energy, 2020, 75, 104938.	8.2	110
4462	Reliable operation of a molecular-gap atomic switch in a vacuum achieved by covering with an ionic liquid. Japanese Journal of Applied Physics, 2020, 59, SIIF04.	0.8	0
4463	Comprehensive predictive modeling of resistive switching devices using a bias-dependent window function approach. Solid-State Electronics, 2020, 170, 107833.	0.8	12
4464	Modeling of Discharge Lamp Characteristics by Using Floating Memristor Circuit Emulator with Tunable Threshold. Electric Power Components and Systems, 2020, 48, 138-147.	1.0	2
4465	Implementation of a tunable spiking neuron for STDP with memristors in FDSOI 28nm., 2020, , .		2
4466	Heterogeneous and Homogenous Multistabilities in a Novel 4D Memristor-Based Chaotic System with Discrete Bifurcation Diagrams. Complexity, 2020, 2020, 1-15.	0.9	5
4467	NeuroMem: Analog Graphene-Based Resistive Memory for Artificial Neural Networks. Scientific Reports, 2020, 10, 9473.	1.6	37
4468	An interface-controlled Mott memristor in α-RuCl3. Applied Physics Letters, 2020, 116, 183501.	1.5	2
4469	Observation of domain wall creation and propagation using the magnetic fixed region with a synthetic antiferromagnetic configuration. Japanese Journal of Applied Physics, 2020, 59, 078002.	0.8	1
4470	Analysis of Memristor Modules as an Element Base of Microprocessor Control Systems: Contradictions and Prospects. , 2020, , .		2
4471	Moving Toward Intelligence: Detecting Symbols on 5G Systems Through Deep Echo State Network. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2020, 10, 253-263.	2.7	16
4472	Gold nanoparticles functionalized with 4,4'-dithiobiphenyl blended with CuS in PMMA for switching memory devices. Journal of Materials Science: Materials in Electronics, 2020, 31, 12083-12088.	1.1	2
4473	An electronically controllable, fully floating memristor based on active elements: DO-OTA and DVCC. AEU - International Journal of Electronics and Communications, 2020, 123, 153315.	1.7	34
4474	Exponential synchronization of complex-valued memristor-based delayed neural networks via quantized intermittent control. Neurocomputing, 2020, 404, 317-328.	3.5	20
4475	Nonlinear dynamics in non-volatile locally-active memristor for periodic and chaotic oscillations*. Chinese Physics B, 2020, 29, 110503.	0.7	6

#	Article	IF	CITATIONS
4476	Communicationâ€"Impact of Electrode Chemistry on the Non-Volatile Performance of Lithium Niobite Memristors for Neuromorphic Computing. ECS Journal of Solid State Science and Technology, 2020, 9, 055018.	0.9	3
4477	Ferroelectric Memristor Based on Hf _{0.5} Zr _{0.5} O ₂ Thin Film Combining Memristive and Neuromorphic Functionalities. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000224.	1.2	13
4478	Alternative memristor-based interconnect topologies for fast adaptive synchronization of chaotic circuits. Chaos, Solitons and Fractals, 2020, 138, 109974.	2.5	9
4479	Optically Readable Waveguide-Integrated Electrochromic Artificial Synaptic Device for Photonic Neuromorphic Systems. ACS Applied Electronic Materials, 2020, 2, 2057-2063.	2.0	14
4480	Short memory fractional differential equations for new memristor and neural network design. Nonlinear Dynamics, 2020, 100, 3611-3623.	2.7	84
4481	LMI-based criterion for global Mittag-Leffler lag quasi-synchronization of fractional-order memristor-based neural networks via linear feedback pinning control. Neurocomputing, 2020, 412, 226-243.	3.5	20
4482	Nonlinear ion drift-diffusion memristance description of TiO ₂ RRAM devices. Nanoscale Advances, 2020, 2, 2514-2524.	2.2	5
4483	Image Edge Detection with a Memristive Grid: a Massive Parallel Approach. , 2020, , .		0
4484	Memristive Fuzzy Deep Learning Systems. IEEE Transactions on Fuzzy Systems, 2021, 29, 2224-2238.	6.5	6
4485	Investigation on the Frequency Dependence of the Correlation Between Discharge Current and Gap Voltage in Helium Dielectric Barrier Discharges at Atmospheric Pressure. IEEE Transactions on Plasma Science, 2020, 48, 2060-2074.	0.6	3
4486	Memory Effect in the Charge Transport in Strongly Disordered Antimony Films. Journal of Experimental and Theoretical Physics, 2020, 130, 610-615.	0.2	0
4487	Global Synchronization of Reaction-Diffusion Fractional-Order Memristive Neural Networks with Time Delay and Unknown Parameters. Complexity, 2020, 2020, 1-14.	0.9	7
4488	Fixed-Time Lag Synchronization Analysis for Delayed Memristor-Based Neural Networks. Neural Processing Letters, 2020, 52, 485-509.	2.0	5
4489	Stabilization of memristive neural networks with mixed time-varying delays via continuous/periodic event-based control. Journal of the Franklin Institute, 2020, 357, 7122-7138.	1.9	22
4490	Pathways to efficient neuromorphic computing with non-volatile memory technologies. Applied Physics Reviews, 2020, 7, .	5.5	94
4491	Isotropically coercive free layer integration in a magnetic tunnel junction for neuromorphic applications., 2020,,.		0
4492	Dynamic Analysis, Circuit Design, and Synchronization of a Novel 6D Memristive Four-Wing Hyperchaotic System with Multiple Coexisting Attractors. Complexity, 2020, 2020, 1-17.	0.9	35
4493	The memristive system behavior of a diac. Journal of Computational Electronics, 2020, 19, 1344-1355.	1.3	1

#	Article	IF	CITATIONS
4494	Low power and high-speed FPGA implementation for 4D memristor chaotic system for image encryption. Multimedia Tools and Applications, 2020, 79, 23203-23222.	2.6	24
4495	Characterisation & modelling of perovskite-based synaptic memristor device. Microelectronics Reliability, 2020, 111, 113708.	0.9	18
4496	Softwarization of UAV Networks: A Survey of Applications and Future Trends. IEEE Access, 2020, 8, 98073-98125.	2.6	127
4497	Robust Multimode Function Synchronization of Memristive Neural Networks With Parameter Perturbations and Time-Varying Delays. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 260-274.	5.9	39
4498	An Experimental Proof that Resistanceâ€Switching Memory Cells are not Memristors. Advanced Electronic Materials, 2020, 6, 2000010.	2.6	20
4499	Fracmemristor chaotic oscillator with multistable and antimonotonicity properties. Journal of Advanced Research, 2020, 25, 137-145.	4.4	10
4500	Opening the Doors to <i>Dynamic</i> Camouflaging: Harnessing the Power of Polymorphic Devices. IEEE Transactions on Emerging Topics in Computing, 2022, 10, 137-156.	3.2	15
4501	A chaotic circuit based on a physical memristor. Chaos, Solitons and Fractals, 2020, 138, 109990.	2.5	68
4502	Recent progress in optoelectronic neuromorphic devices*. Chinese Physics B, 2020, 29, 078502.	0.7	21
4503	Two-dimensional conjugated polymer films <i>via</i> liquid-interface-assisted synthesis toward organic electronic devices. Journal of Materials Chemistry C, 2020, 8, 10696-10718.	2.7	32
4504	Computer Modelling of a New Simple Chaotic Generator. Journal of Physics: Conference Series, 2020, 1477, 022010.	0.3	2
4505	A Multi-Stable Memristor and its Application in a Neural Network. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3472-3476.	2.2	105
4506	Stochastic Memristive Quaternion-Valued Neural Networks with Time Delays: An Analysis on Mean Square Exponential Input-to-State Stability. Mathematics, 2020, 8, 815.	1.1	43
4507	Metal oxide for heavy metal detection and removal. , 2020, , 299-332.		3
4508	Performance Comparison of Various Memristor Emulators on a Phase Shifting Oscillator Circuit. , 2020, , .		1
4509	Anti-synchronization of a Class Of Fuzzy Memristive Competitive Neural Networks with Different Time Scales. Neural Processing Letters, 2020, 52, 647-661.	2.0	11
4510	Modeling a Floating-Gate Memristive Device for Computer Aided Design of Neuromorphic Computing. , 2020, , .		3
4511	Graphene oxide resistive memories with threshold switching behavior. , 2020, , .		O

#	Article	IF	CITATIONS
4512	Binary Electronic Synapses for Integrating Digital and Neuromorphic Computation in a Single Physical Platform. ACS Applied Materials & Samp; Interfaces, 2020, 12, 17130-17138.	4.0	8
4513	Memristors based on thermal copper oxide. Journal of Materials Science: Materials in Electronics, 2020, 31, 7445-7454.	1.1	2
4514	Controlling Cu Migration on Resistive Switching, Artificial Synapse, and Glucose/Saliva Detection by Using an Optimized AlO <i></i> /i> Interfacial Layer in a-CO<i>_{<}</i>Conductive Bridge Random Access Memory. ACS Omega, 2020, 5, 7032-7043.	1.6	30
4515	Anti-Synchronization of Fractional-Order Chaotic Circuit with Memristor via Periodic Intermittent Control. Advances in Mathematical Physics, 2020, 2020, 1-8.	0.4	1
4516	Monetizing Mobile Data via Data Rewards. IEEE Journal on Selected Areas in Communications, 2020, 38, 782-792.	9.7	8
4517	Exponential Stabilization of Delayed Chaotic Memristive Neural Networks Via Aperiodically Intermittent Control. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050029.	0.7	7
4518	Towards synthetic neural networks: can artificial electrochemical neurons be coupled with artificial memristive synapses?. Japanese Journal of Applied Physics, 2020, 59, SI0801.	0.8	14
4519	Memristor property of an amorphous Sn–Ga–O thin-film device deposited using mist chemical-vapor-deposition method. AIP Advances, 2020, 10, .	0.6	7
4520	Selfâ€Assembled NiO Nanocrystal Arrays as Memristive Elements. Advanced Electronic Materials, 2020, 6, 1901153.	2.6	3
4521	Objective Assessment of Perceived Geometric Distortions in Viewport Rendering of 360° Images. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 49-63.	7.3	8
4522	Salp Swarm Algorithm-Based Optimally Weighted Histogram Framework for Image Enhancement. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 6807-6815.	2.4	36
4523	2D photonic memristor beyond graphene: progress and prospects. Nanophotonics, 2020, 9, 1579-1599.	2.9	54
4524	Liquidâ∈Metalâ€Induced Memristor Behavior in Polymer Insulators. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000050.	1.2	9
4525	A Compact Single-Layer Balanced Phase Shifter With Wide Bandwidth and Uniform Reference Line. IEEE Access, 2020, 8, 41530-41536.	2.6	7
4526	Smooth Transition in Communication for Swarm Control With Formation Change. IEEE Transactions on Industrial Informatics, 2020, 16, 6962-6971.	7.2	35
4527	Spatial Resolution of an Inorganic Crystal-Based Hard X-Ray Imager. IEEE Transactions on Nuclear Science, 2020, 67, 1014-1019.	1.2	5
4528	Benchmarking Simulated Robotic Manipulation Through a Real World Dataset. IEEE Robotics and Automation Letters, 2020, 5, 250-257.	3.3	13
4529	Fractional-Order Memristive Predictor: Arbitrary-Order String Scaling Fracmemristor Based Prediction Model of Trading Price of Future. IEEE Intelligent Systems, 2020, 35, 66-78.	4.0	8

#	Article	IF	CITATIONS
4530	A Novel Floating/Grounded Meminductor Emulator. Journal of Circuits, Systems and Computers, 2020, 29, 2050247.	1.0	35
4532	Temporal versatility from intercalation-based neuromorphic devices exhibiting 150 mV non-volatile operation. Journal of Applied Physics, 2020, 127, .	1.1	12
4533	Analytical modeling of a Y ₂ O ₃ -based memristive system for synaptic applications. Journal Physics D: Applied Physics, 2020, 53, 305101.	1.3	7
4534	Global Mittag–Leffler Stability and Stabilization Analysis of Fractional-Order Quaternion-Valued Memristive Neural Networks. Mathematics, 2020, 8, 422.	1.1	64
4535	A GaN-Based Wireless Power and Information Transmission Method Using Dual-Frequency Programmed Harmonic Modulation. IEEE Access, 2020, 8, 49848-49856.	2.6	9
4536	Fixed-time synchronization of fractional order memristive MAM neural networks by sliding mode control. Neurocomputing, 2020, 401, 364-376.	3.5	30
4537	Low consumption two-terminal artificial synapse based on transfer-free single-crystal MoS ₂ memristor. Nanotechnology, 2020, 31, 265202.	1.3	32
4538	Dynamical Properties of Fractional-Order Memristor. Symmetry, 2020, 12, 437.	1.1	7
4539	New Grounded and Floating Decremental/Incremental Memristor Emulators Based on CDTA and Its Application. Wireless Personal Communications, 2020, 113, 773-798.	1.8	35
4540	In Situ Hydrogen Plasma Exposure for Varying the Stoichiometry of Atomic Layer Deposited Niobium Oxide Films for Use in Neuromorphic Computing Applications. ACS Applied Materials & Samp; Interfaces, 2020, 12, 16639-16647.	4.0	16
4541	Assistive mobile robot for industrial and academic applications. , 2020, , .		1
4542	Design and Implementation of Reconfigurable Asynchronous Pipelines. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2020, 28, 1527-1539.	2.1	6
4543	Power Converters Topological Transformation Using Dual and Isomorphic Principles. IEEE Open Journal of Power Electronics, 2020, 1, 74-87.	4.0	14
4544	Finite-Time Lag Synchronization of Memristive Neural Networks With Multi-Links via Adaptive Control. IEEE Access, 2020, 8, 55398-55410.	2.6	10
4545	Fault Tolerant Layout Gate Simulation in Microwind. , 2020, , .		1
4546	Surgical Suture Thread Detection and 3-D Reconstruction Using a Model-Free Approach in a Calibrated Stereo Visual System. IEEE/ASME Transactions on Mechatronics, 2020, 25, 792-803.	3.7	14
4547	Design of a Four-Person Voter Circuit Based on Memristor Logic. Communications in Computer and Information Science, 2020, , 149-162.	0.4	0
4548	Event-triggered hybrid impulsive control for synchronization of memristive neural networks. Science China Information Sciences, 2020, 63, 1.	2.7	16

#	ARTICLE	IF	CITATIONS
4549	Multiobjective UAV Path Planning for Emergency Information Collection and Transmission. IEEE Internet of Things Journal, 2020, 7, 6993-7009.	5.5	58
4550	Metadata Framework for Assisting Experimental Planning and Evaluation at Wendelstein 7-X. IEEE Transactions on Plasma Science, 2020, 48, 1409-1414.	0.6	1
4551	A Multistable Generalized Meminductor with Coexisting Stable Pinched Hysteresis Loops. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050023.	0.7	8
4552	Associate Submersions and Qualitative Properties of Nonlinear Circuits with Implicit Characteristics. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050033.	0.7	2
4553	Linear and symmetric conductance response of magnetic domain wall type spin-memristor for analog neuromorphic computing. Applied Physics Express, 2020, 13, 043004.	1.1	24
4554	Complex Dynamics of a Novel Chaotic System Based on an Active Memristor. Electronics (Switzerland), 2020, 9, 410.	1.8	5
4555	Unmanned Systems Security: Models, Challenges, and Future Directions. IEEE Network, 2020, 34, 291-297.	4.9	15
4556	Neuronal realizations based on memristive devices. , 2020, , 407-426.		0
4557	Characteristics and mechanisms in resistive random-access memory. , 2020, , 13-52.		1
4558	Two-terminal optoelectronic memory device. , 2020, , 75-105.		0
4559	Magnetic Elements for Neuromorphic Computing. Molecules, 2020, 25, 2550.	1.7	18
4560	Metal oxide materials for photoelectroactive memories and neuromorphic computing systems. , 2020, , 251-278.		1
4561	Infinite attractors in a chaotic circuit with exponential memristor and Josephson junction resonator. AEU - International Journal of Electronics and Communications, 2020, 123, 153319.	1.7	23
4562	Exponential Stabilization of Delayed Inertial Memristive Neural Networks via Aperiodically Intermittent Control Strategy. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 448-458.	5.9	17
4563	Challenges and Applications of Emerging Nonvolatile Memory Devices. Electronics (Switzerland), 2020, 9, 1029.	1.8	163
4564	Synaptic Characteristics of Amorphous Boron Nitride-Based Memristors on a Highly Doped Silicon Substrate for Neuromorphic Engineering. ACS Applied Materials & Samp; Interfaces, 2020, 12, 33908-33916.	4.0	52
4565	Finite-Time Projective Synchronization of Fractional-Order Memristive Neural Networks with Mixed Time-Varying Delays. Complexity, 2020, 2020, 1-27.	0.9	14
4566	Reconfigurable dual-band power amplifier based on memristor. IEICE Electronics Express, 2020, 17, 20200171-20200171.	0.3	4

#	Article	IF	CITATIONS
4567	Photonâ€Memristive System for Logic Calculation and Nonvolatile Photonic Storage. Advanced Functional Materials, 2020, 30, 2002945.	7.8	18
4568	Emulation circuits of fractional-order memelements with multiple pinched points and their applications. Chaos, Solitons and Fractals, 2020, 138, 109882.	2.5	20
4569	Neuromorphic computing with antiferromagnetic spintronics. Journal of Applied Physics, 2020, 128, .	1.1	40
4570	Recent Advances of Volatile Memristors: Devices, Mechanisms, and Applications. Advanced Intelligent Systems, 2020, 2, 2000055.	3.3	108
4571	Exponential synchronization of memristive delayed neural networks via event-based impulsive control method. Journal of the Franklin Institute, 2020, 357, 4437-4457.	1.9	21
4572	Tunable Short-Term Plasticity Response in Three-Terminal Organic Neuromorphic Devices. ACS Applied Electronic Materials, 2020, 2, 1849-1854.	2.0	16
4573	Modeling a helical fluid inerter system with timeâ€invariant memâ€models. Structural Control and Health Monitoring, 2020, 27, e2579.	1.9	8
4574	A novel meminductor-based chaotic oscillating circuit and its DSP realisation for generating PN sequences. Pramana - Journal of Physics, 2020, 94, 1.	0.9	1
4575	Memristive Hidden Chaotic System and Circuit Based on Sprott-2 System., 2020,,.		2
4576	Memristor Neural Networks for Linear and Quadratic Programming Problems. IEEE Transactions on Cybernetics, 2022, 52, 1822-1835.	6.2	13
4577	Efficient Processing of Deep Neural Networks. Synthesis Lectures on Computer Architecture, 2020, 15, 1-341.	1.3	72
4578	A memristive chaotic oscillator with controllable amplitude and frequency. Chaos, Solitons and Fractals, 2020, 139, 110000.	2.5	44
4579	Analog Switching and Artificial Synaptic Behavior of Ag/SiOx:Ag/TiOx/p++-Si Memristor Device. Nanoscale Research Letters, 2020, 15, 30.	3.1	65
4580	Synchronization of a novel model for memristive neural networks via sliding mode control. ISA Transactions, 2020, 106, 31-39.	3.1	8
4581	Novel Floating and Grounded Memory Interface Circuits for Constructing Mem-Elements and Their Applications. IEEE Access, 2020, 8, 114761-114772.	2.6	18
4582	A Multilayer Neural Network Merging Image Preprocessing and Pattern Recognition by Integrating Diffusion and Drift Memristors. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 645-656.	2.6	26
4583	Synchronization of Periodic Self-Oscillators Interacting via Memristor-Based Coupling. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050096.	0.7	7
4584	Event-based sliding-mode synchronization of delayed memristive neural networks via continuous/periodic sampling algorithm. Applied Mathematics and Computation, 2020, 383, 125379.	1.4	42

#	ARTICLE	IF	CITATIONS
4585	Initial boosting phenomenon of a fractional-order hyperchaotic system based on dual memristors. Modern Physics Letters B, 2020, 34, 2050191.	1.0	12
4586	Memristor-Based Edge Detection for Spike Encoded Pixels. Frontiers in Neuroscience, 2020, 13, 1386.	1.4	14
4587	Mem-models and state event location algorithm for a prototypical aerospace system. Nonlinear Dynamics, 2020, 100, 203-224.	2.7	2
4588	HMM-based <mml:math altimg="si6.svg" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="bold-script">H</mml:mi><mml:mi>altimg="si6.svg"></mml:mi></mml:msub></mml:math> state estimation for memristive jumping neural networks subject to fading channel. Neurocomputing, 2020, 393, 66-75.	3.5	16
4589	Resistive Switching in Graphene Oxide. Frontiers in Materials, 2020, 7, .	1.2	39
4590	Nonlinear Dynamics, Switching Kinetics and Physical Realization of the Family of Chua Corsage Memristors. Electronics (Switzerland), 2020, 9, 369.	1.8	11
4591	Memristors for Neuromorphic Circuits and Artificial Intelligence Applications. Materials, 2020, 13, 938.	1.3	29
4592	Memristive magnetic coupling feedback induces wave-pattern transition. Nonlinear Dynamics, 2020, 100, 647-658.	2.7	10
4593	Quantitative, Dynamic TaO _{<i>x</i>} Memristor/Resistive Random Access Memory Model. ACS Applied Electronic Materials, 2020, 2, 701-709.	2.0	38
4594	Metasurface-Enabled Antiparallel Dual-Beam Rectangular-Waveguide Antenna. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 641-645.	2.4	3
4595	Gated Recurrent Fusion to Learn Driving Behavior from Temporal Multimodal Data. IEEE Robotics and Automation Letters, 2020, 5, 1287-1294.	3.3	15
4596	Characteristics of analog memristor on thin-film Pt/Co0.2TiO3.2/ITO. Journal of Materials Science: Materials in Electronics, 2020, 31, 5692-5696.	1.1	1
4597	New grounded and floating memristor emulators using OTA and CDBA. International Journal of Circuit Theory and Applications, 2020, 48, 1154-1179.	1.3	45
4598	Non-fragile Suboptimal Set-membership Estimation for Delayed Memristive Neural Networks with Quantization via Maximum-error-first Protocol. International Journal of Control, Automation and Systems, 2020, 18, 1904-1914.	1.6	7
4599	Neuromorphic spintronics. Nature Electronics, 2020, 3, 360-370.	13.1	516
4600	Electronic mechanism for resistive switching in metal/insulator/metal nanodevices. Journal Physics D: Applied Physics, 2020, 53, 295302.	1.3	1
4601	Modelling the switching effect in graphene oxide-based memristors. Semiconductor Science and Technology, 2020, 35, 055020.	1.0	4
4602	Dynamical response of a neuron–astrocyte coupling system under electromagnetic induction and external stimulation*. Chinese Physics B, 2020, 29, 030504.	0.7	20

#	Article	IF	CITATIONS
4603	A method of generating random bits by using electronic bipolar memristor*. Chinese Physics B, 2020, 29, 048505.	0.7	7
4604	Optoelectronic memristor for neuromorphic computing*. Chinese Physics B, 2020, 29, 048401.	0.7	34
4605	Hyperchaotic Circuit Based on Memristor Feedback with Multistability and Symmetries. Complexity, 2020, 2020, 1-10.	0.9	7
4606	Dynamics of a chargeâ€controlled memristor in master–slave coupling. Electronics Letters, 2020, 56, 211-213.	0.5	10
4607	An electronic synapse device based on aluminum nitride memristor for neuromorphic computing application. Journal Physics D: Applied Physics, 2020, 53, 195101.	1.3	13
4608	Quantum Memristors in Frequency-Entangled Optical Fields. Materials, 2020, 13, 864.	1.3	7
4609	A Serial Access Scheme Design on Memristor-CMOS Hybrid Memory. IEEE Access, 2020, 8, 35031-35037.	2.6	3
4610	On Feasibility of Autonomous Frequency-Support Provision from Offshore HVDC Grids. IEEE Transactions on Power Delivery, 2020, , 1-1.	2.9	10
4611	Mathematical Modeling of Neuronal Logic, Memory and Clocking Circuits. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050003.	0.7	0
4612	Exponential Stability of Markovian Jumping Memristor-Based Neural Networks via Event-Triggered Impulsive Control Scheme. IEEE Access, 2020, 8, 32564-32574.	2.6	5
4613	A comprehensive review on emerging artificial neuromorphic devices. Applied Physics Reviews, 2020, 7,	5.5	417
4614	Nonstationary distributions and relaxation times in a stochastic model of memristor. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 024003.	0.9	92
4615	Microtubules as Sub-Cellular Memristors. Scientific Reports, 2020, 10, 2108.	1.6	35
4616	Fast and Accurate SimRank Computation via Forward Local Push and its Parallelization. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 3686-3700.	4.0	3
4617	Mem-models as building blocks for simulation and identification of hysteretic systems. Nonlinear Dynamics, 2020, 100, 973-998.	2.7	21
4618	A variation tolerant scheme for memristor crossbar based neural network designs via two-phase weight mapping and memristor programming. Future Generation Computer Systems, 2020, 106, 270-276.	4.9	13
4620	Balanced-to-Balanced Gysel Filtering Power Divider With Arbitrary Power Division. IEEE Access, 2020, 8, 36454-36463.	2.6	6
4621	Global exponential anti-synchronization for delayed memristive neural networks via event-triggering method. Neural Computing and Applications, 2020, 32, 13521-13535.	3.2	2

#	Article	IF	CITATIONS
4622	Non–zero-crossing current-voltage hysteresis behavior in memristive system. Materials Today Advances, 2020, 6, 100056.	2.5	37
4623	Threshold-Function-Dependent Quasi-Synchronization of Delayed Memristive Neural Networks via Hybrid Event-Triggered Control. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 6712-6722.	5.9	40
4624	Majority-Logic, its applications, and atomic-scale embodiments. Computers and Electrical Engineering, 2020, 83, 106562.	3.0	17
4625	Breaking the Quantum PIN Code of Atomic Synapses. Nano Letters, 2020, 20, 1192-1200.	4.5	7
4626	Resistive switching materials forÂinformation processing. Nature Reviews Materials, 2020, 5, 173-195.	23.3	668
4627	Memristor Crossbar Array Based ACO For Image Edge Detection. Neural Processing Letters, 2020, 51, 1891-1905.	2.0	9
4628	A memristive conservative chaotic circuit consisting of a memristor and a capacitor. Chaos, 2020, 30, 013120.	1.0	26
4629	Modeling of discrete fracmemristor and its application. AIP Advances, 2020, 10, .	0.6	57
4630	Cytomorphic Electronics With Memristors for Modeling Fundamental Genetic Circuits. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 386-401.	2.7	6
4631	Antiphase synchronization and central symmetrical antiphase synchronization in magnetic field coupled circuits. Nonlinear Dynamics, 2020, 99, 3217-3229.	2.7	2
4632	Hidden dynamics in a fractional-order memristive Hindmarsh–Rose model. Nonlinear Dynamics, 2020, 100, 891-906.	2.7	42
4633	Mono/multi-periodicity generated by impulses control in time-delayed memristor-based neural networks. Nonlinear Analysis: Hybrid Systems, 2020, 36, 100861.	2.1	11
4634	Event-triggered distributed control for synchronization of multiple memristive neural networks under cyber-physical attacks. Information Sciences, 2020, 518, 361-375.	4.0	86
4635	A dual mode electronic synapse based on layered SnSe films fabricated by pulsed laser deposition. Nanoscale Advances, 2020, 2, 1152-1160.	2.2	8
4636	Memristorâ€Based Biologically Plausible Memory Based on Discrete and Continuous Attractor Networks for Neuromorphic Systems. Advanced Intelligent Systems, 2020, 2, 2000001.	3.3	16
4637	A memristor-based circuit design for generalization and differentiation on Pavlov associative memory. Neurocomputing, 2020, 389, 18-26.	3.5	24
4638	Electrolyte-gated transistors for synaptic electronics, neuromorphic computing, and adaptable biointerfacing. Applied Physics Reviews, 2020, 7, .	5.5	166
4639	Synchronization with general decay rate for memristor-based BAM neural networks with distributed delays and discontinuous activation functions. Neurocomputing, 2020, 387, 221-240.	3.5	15

#	Article	IF	CITATIONS
4641	Methodology for the characterization and observation of filamentary spots in HfOx-based memristor devices. Microelectronic Engineering, 2020, 223, 111232.	1.1	17
4642	An overview of stability analysis and state estimation for memristive neural networks. Neurocomputing, 2020, 391, 1-12.	3.5	44
4643	Robust Particle Filtering With Time-Varying Model Uncertainty and Inaccurate Noise Covariance Matrix. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 7099-7108.	5.9	9
4644	Nanosecond resistive switching in Ag/Agl/Ptlr nanojunctions. Beilstein Journal of Nanotechnology, 2020, 11, 92-100.	1.5	7
4645	Brain-inspired computing with memristors: Challenges in devices, circuits, and systems. Applied Physics Reviews, 2020, 7, .	5.5	217
4646	Multidimensional scaling locus of memristor and fractional order elements. Journal of Advanced Research, 2020, 25, 147-157.	4.4	19
4647	Lithiumâ€Battery Anode Gains Additional Functionality for Neuromorphic Computing through Metal–Insulator Phase Separation. Advanced Materials, 2020, 32, e1907465.	11.1	43
4648	Nanoscale resistive switching devices for memory and computing applications. Nano Research, 2020, 13, 1228-1243.	5.8	91
4649	Finite-Time Synchronization of Coupled Inertial Memristive Neural Networks with Mixed Delays via Nonlinear Feedback Control. Neural Processing Letters, 2020, 51, 1921-1938.	2.0	11
4650	Onâ€chip tunable Memristorâ€based flashâ€ADC converter for artificial intelligence applications. IET Circuits, Devices and Systems, 2020, 14, 107-114.	0.9	13
4651	Flux-Controlled Memristor Emulator and Its Experimental Results. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2020, 28, 1050-1061.	2.1	53
4652	Vibrational mono-/bi-resonance and wave propagation in FitzHugh–Nagumo neural systems under electromagnetic induction. Chaos, Solitons and Fractals, 2020, 133, 109645.	2.5	68
4653	Multi-level anomalous Hall resistance in a single Hall cross for the applications of neuromorphic device. Scientific Reports, 2020, 10, 1285.	1.6	5
4654	Simple design of memristive counters and their applications in automatic irrigation system. IET Circuits, Devices and Systems, 2020, 14, 35-40.	0.9	2
4655	Ballistocardiography Can Estimate Beat-to-Beat Heart Rate Accurately at Night in Patients After Vascular Intervention. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 2230-2237.	3.9	18
4656	Engineering of defects in resistive random access memory devices. Journal of Applied Physics, 2020, 127,	1.1	65
4657	The Effect of Multi-Layer Stacking Sequence of TiOx Active Layers on the Resistive-Switching Characteristics of Memristor Devices. Micromachines, 2020, 11, 154.	1.4	11
4658	Designing pulse-coupled neural networks with spike-synchronization-dependent plasticity rule: image segmentation and memristor circuit application. Neural Computing and Applications, 2020, 32, 13441-13452.	3.2	10

#	Article	IF	CITATIONS
4659	Finite-Time Synchronization of Memristor-Based Fractional Order Cohen-Grossberg Neural Networks. IEEE Access, 2020, 8, 73698-73713.	2.6	11
4660	Memristor Based Cryptographic Information Processing for Secured Communication Systems. , 2020, ,		3
4661	Neurohybrid Memristive CMOS-Integrated Systems for Biosensors and Neuroprosthetics. Frontiers in Neuroscience, 2020, 14, 358.	1.4	143
4662	Single Crossbar Array of Memristors With Bipolar Inputs for Neuromorphic Image Recognition. IEEE Access, 2020, 8, 69327-69332.	2.6	12
4663	Applications of Phase Change Materials in Electrical Regime From Conventional Storage Memory to Novel Neuromorphic Computing. IEEE Access, 2020, 8, 76471-76499.	2.6	12
4664	Analysis of Memreactance with Fractional Kinetics. Mathematical Problems in Engineering, 2020, 2020, 1-25.	0.6	2
4665	Novel Criteria of ISS Analysis for Delayed Memristive Simplified Cohen–Grossberg BAM Neural Networks. Complexity, 2020, 2020, 1-14.	0.9	0
4666	Higher-Order Hamiltonian for Circuits with $(\hat{l}\pm,\hat{l}^2)$ Elements. Entropy, 2020, 22, 412.	1.1	2
4667	Mathematical analysis of memristor through fractalâ€fractional differential operators: A numerical study. Mathematical Methods in the Applied Sciences, 2020, 43, 6378-6395.	1.2	59
4668	Function-mapping on defective nano-crossbars with enhanced reliability. Journal of Computational Electronics, 2020, 19, 555-564.	1.3	3
4669	A new universal mutator circuit for memcapacitor and meminductor elements. AEU - International Journal of Electronics and Communications, 2020, 119, 153180.	1.7	38
4670	Halogen-containing semiconductors: From artificial photosynthesis to unconventional computing. Coordination Chemistry Reviews, 2020, 415, 213316.	9.5	21
4671	Compliance Current-Controlled Conducting Filament Formation in Tantalum Oxide-Based RRAM Devices with Different Top Electrodes. ACS Applied Electronic Materials, 2020, 2, 1154-1161.	2.0	55
4672	A novel memristor-based dynamical system with multi-wing attractors and symmetric periodic bursting. Chaos, 2020, 30, 043110.	1.0	26
4673	Three-Dimensional Geometric Descent Guidance With Impact Angle Constraint. IEEE Access, 2020, 8, 64932-64948.	2.6	1
4674	Compendious elucidation on faults management in wireless sensor networks (wsn)., 2020,,.		1
4675	Fuzzy Adaptive Event-Triggered Sampled-Data Control for Stabilization of T–S Fuzzy Memristive Neural Networks With Reaction–Diffusion Terms. IEEE Transactions on Fuzzy Systems, 2021, 29, 1775-1785.	6.5	62
4676	An Exact and Fast CBCT Reconstruction via Pseudo-Polar Fourier Transform-Based Discrete Grangeat's Formula. IEEE Transactions on Image Processing, 2020, 29, 5832-5847.	6.0	1

#	Article	IF	CITATIONS
4677	Accelerated Schemes for the L_1/L_2 Minimization. IEEE Transactions on Signal Processing, 2020, 68, 2660-2669.	3.2	36
4678	Pinning Synchronization via Intermittent Control for Memristive Cohen-Grossberg Neural Networks With Mixed Delays. IEEE Access, 2020, 8, 55676-55687.	2.6	10
4679	Broken Symmetry in a Memristive Chaotic Oscillator. IEEE Access, 2020, 8, 69222-69229.	2.6	9
4680	A Family of Binary Memristor-Based Low-Pass Filters With Controllable Cut-Off Frequency. IEEE Access, 2020, 8, 60199-60209.	2.6	9
4681	Thermo-Mechanical Modeling and Experimental Validation of an Uncooled Microbolometer. , 2020, , .		2
4683	A new hidden attractor hyperchaotic memristor oscillator with a line of equilibria. European Physical Journal: Special Topics, 2020, 229, 1279-1288.	1.2	11
4684	Extreme and critical transition events in the memristor based Liénard system. European Physical Journal: Special Topics, 2020, 229, 1033-1044.	1.2	21
4685	Implementation of Unbalanced Ternary Logic Gates with the Combination of Spintronic Memristor and CMOS. Electronics (Switzerland), 2020, 9, 542.	1.8	15
4686	A New Simplified Model and Parameter Estimations for a HfO2-Based Memristor â€. Technologies, 2020, 8, 16.	3.0	2
4687	A novel simple chaotic circuit based on memristor–memcapacitor. Nonlinear Dynamics, 2020, 100, 2859-2876.	2.7	114
4688	MOS-Only Memristor Emulator. Circuits, Systems, and Signal Processing, 2020, 39, 5848-5861.	1.2	20
4689	A Comprehensive Study on the Characteristics, Complex Materials and Applications of Memristor. , 2020, , .		3
4690	Finite-time synchronization for fractional-order memristor-based neural networks with discontinuous activations and multiple delays. Modern Physics Letters B, 2020, 34, 2050162.	1.0	10
4691	Event-Triggered Stabilization for Takagi–Sugeno Fuzzy Complex-Valued Memristive Neural Networks With Mixed Time-Varying Delays. IEEE Transactions on Fuzzy Systems, 2021, 29, 1853-1863.	6.5	24
4692	Tiny but Accurate: A Pruned, Quantized and Optimized Memristor Crossbar Framework for Ultra Efficient DNN Implementation. , 2020, , .		29
4693	Question Answering Model Based on Graph Knowledge and Entity Recognition. , 2020, , .		0
4694	An organic approach to low energy memory and brain inspired electronics. Applied Physics Reviews, 2020, 7, .	5.5	39
4695	Memristor switching and integration in ensembles of silicon nanocrystallites. AIP Advances, 2020, 10, 045205.	0.6	0

#	Article	IF	Citations
4696	Memristive Behavior Enabled by Amorphous–Crystalline 2D Oxide Heterostructure. Advanced Materials, 2020, 32, e2000801.	11.1	26
4697	Exponential synchronization of memristive neural networks with time-varying delays via quantized sliding-mode control. Neural Networks, 2020, 126, 163-169.	3.3	32
4698	Memristive response and electrochemical processes in polyaniline based organic devices. Organic Electronics, 2020, 83, 105757.	1.4	4
4699	Hydrothermally Grown TiO (sub) 2 (/sub) Nanorod Array Memristors with Volatile States. ACS Applied Materials & Samp; Interfaces, 2020, 12, 23363-23369.	4.0	19
4700	Perspective on photonic memristive neuromorphic computing. PhotoniX, 2020, 1, .	5.5	81
4701	Recent Advances in Halide Perovskite Memristors: Materials, Structures, Mechanisms, and Applications. Advanced Materials Technologies, 2020, 5, .	3.0	110
4702	Memristive Devices for Quantum Metrology. Advanced Quantum Technologies, 2020, 3, 2000009.	1.8	6
4703	Quantum Dot Optoelectronic Devices. Lecture Notes in Nanoscale Science and Technology, 2020, , .	0.4	5
4704	Leaky integrate-and-fire neurons based on perovskite memristor for spiking neural networks. Nano Energy, 2020, 74, 104828.	8.2	114
4705	Finite-time synchronization of memristor neural networks via interval matrix method. Neural Networks, 2020, 127, 7-18.	3.3	27
4706	Bismuth triiodide complexes: structure, spectroscopy, electronic properties, and memristive properties. Journal of Materials Chemistry C, 2020, 8, 6136-6148.	2.7	6
4707	17.2 A 66fs _{rms} Jitter 12.8-to-15.2GHz Fractional-N Bang-Bang PLL with Digital Frequency-Error Recovery for Fast Locking., 2020,,.		7
4708	Memristive Element with Multiple Internal State Variables Functional Model for Computer Based Analysis and Hardware Emulation of Pulsed Neural Adaptive Networks., 2020,,.		2
4709	Simple Double-Scroll Chaotic Circuit Based on Meminductor. Journal of Circuits, Systems and Computers, 2020, 29, 2050048.	1.0	10
4710	Bifurcations of Negative Responses to Positive Feedback Current Mediated by Memristor in a Neuron Model with Bursting Patterns. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2030009.	0.7	40
4711	Chaos-Based Application of a Novel Multistable 5D Memristive Hyperchaotic System with Coexisting Multiple Attractors. Complexity, 2020, 2020, 1-19.	0.9	32
4712	Equilibrium Propagation for Memristor-Based Recurrent Neural Networks. Frontiers in Neuroscience, 2020, 14, 240.	1.4	13
4713	Simple charge controlled floating memcapacitor emulator using DXCCDITA. Analog Integrated Circuits and Signal Processing, 2020, 104, 37-46.	0.9	21

#	Article	IF	CITATIONS
4714	Sliding Mode Stabilization of Memristive Neural Networks With Leakage Delays and Control Disturbance. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 1254-1263.	7.2	7
4715	Bipartite Synchronization of Multiple Memristor-Based Neural Networks With Antagonistic Interactions. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 1642-1653.	7.2	25
4716	Defect Analysis and Parallel Testing for 3D Hybrid CMOS-Memristor Memory. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 745-758.	3.2	6
4717	Design and Analysis of Secure Emerging Crypto-Hardware Using HyperFET Devices. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 787-796.	3.2	4
4718	Exponential Synchronization of Delayed Memristor-Based Uncertain Complex-Valued Neural Networks for Image Protection. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 151-165.	7.2	55
4719	Global Exponential Synchronization of Coupled Delayed Memristive Neural Networks With Reaction–Diffusion Terms via Distributed Pinning Controls. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 105-116.	7.2	49
4720	An Algebraic Formula for Performance Bounds of a Weighted \$mathcal {H}_infty\$ Optimal Control Problem. IEEE Transactions on Automatic Control, 2021, 66, 781-786.	3.6	2
4721	Extended Robust Exponential Stability of Fuzzy Switched Memristive Inertial Neural Networks With Time-Varying Delays on Mode-Dependent Destabilizing Impulsive Control Protocol. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 308-321.	7.2	28
4722	Energy dependence on discharge mode of Izhikevich neuron driven by external stimulus under electromagnetic induction. Cognitive Neurodynamics, 2021, 15, 265-277.	2.3	49
4723	Mittag–Leffler Synchronization of Delayed Fractional Memristor Neural Networks via Adaptive Control. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 2279-2284.	7.2	68
4724	Exponential stabilization of memristor-based neural networks with unbounded time-varying delays. Science China Information Sciences, 2021, 64, 1.	2.7	19
4725	Periodic Event-Triggered Synchronization of Multiple Memristive Neural Networks With Switching Topologies and Parameter Mismatch. IEEE Transactions on Cybernetics, 2021, 51, 427-437.	6.2	45
4726	Novel Memristor Emulators using Fully Balanced VDBA and Grounded Capacitor. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2021, 45, 229-245.	1.5	23
4727	Karnaugh Map Method for Memristive and Spintronic Asymmetric Basis Logic Functions. IEEE Transactions on Computers, 2021, 70, 128-138.	2.4	5
4728	Qualitative Analysis and Bifurcation in a Neuron System With Memristor Characteristics and Time Delay. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 1974-1988.	7.2	13
4729	Flux Controlled Floating Memristor Employing VDTA: Incremental or Decremental Operation. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2021, 40, 364-372.	1.9	25
4730	Evaluation of the Initial Sea Surface Temperature From the HY-2B Scanning Microwave Radiometer. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 137-141.	1.4	17
4731	Assessing Active Learning Strategies to Improve the Quality Control of the Soybean Seed Vigor. IEEE Transactions on Industrial Electronics, 2021, 68, 1675-1683.	5.2	6

#	Article	IF	CITATIONS
4732	A Novel Memristive Chaotic Neuron Circuit and Its Application in Chaotic Neural Networks for Associative Memory. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2021, 40, 521-532.	1.9	36
4733	Adaptive finite-time synchronization of stochastic mixed time-varying delayed memristor-based neural networks. Neurocomputing, 2021, 452, 781-788.	3.5	12
4734	Robust Hâ^ž performance for discrete time T-S fuzzy switched memristive stochasticneural networks with mixed time-varying delays. Journal of Experimental and Theoretical Artificial Intelligence, 2021, 33, 79-107.	1.8	5
4735	Dynamic analysis of fractional-order quaternion-valued fuzzy memristive neural networks: Vector ordering approach. Fuzzy Sets and Systems, 2021, 411, 1-24.	1.6	18
4736	Variation resilient low-power memristor-based synchronous flip-flops: design and analysis. Microsystem Technologies, 2021, 27, 525-538.	1.2	7
4737	A Disturbance Rejection Framework for Finite-Time and Fixed-Time Stabilization of Delayed Memristive Neural Networks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 905-915.	5.9	78
4738	Memristive Quantized Neural Networks: A Novel Approach to Accelerate Deep Learning On-Chip. IEEE Transactions on Cybernetics, 2021, 51, 1875-1887.	6.2	28
4739	Finite-Time Synchronization of Memristor-Based Recurrent Neural Networks With Inertial Items and Mixed Delays. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2701-2711.	5.9	21
4740	TiO2â^'xâ€"TiO2 Memristor Applications for Programmable Analog VLSI Circuits at 45 nm CMOS Technology Node. Transactions on Electrical and Electronic Materials, 2021, 22, 452-458.	1.0	0
4741	Simulation of memristor switching time series in response to spike-like signal. Chaos, Solitons and Fractals, 2021, 142, 110382.	2.5	17
4742	Photoactive Cu2FeSnS4 thin films: Influence of stabilizers. Applied Surface Science, 2021, 535, 147600.	3.1	13
4743	Design of Memristor with Hard-Switching Behavior Employing Only One CCCII and One Capacitor. Journal of Circuits, Systems and Computers, 2021, 30, 2150151.	1.0	6
4744	Observation of single-defect memristor in an MoS2 atomic sheet. Nature Nanotechnology, 2021, 16, 58-62.	15.6	148
4745	Complex dynamical behaviors in a memcapacitor–inductor circuit. Analog Integrated Circuits and Signal Processing, 2021, 106, 615-634.	0.9	3
4746	New finite-time synchronization of memristive Cohen–Grossberg neural network with reaction–diffusion term based on time-varying delay. Neural Computing and Applications, 2021, 33, 4315-4328.	3.2	9
4747	Global synchronization of memristive hybrid neural networks via nonlinear coupling. Neural Computing and Applications, 2021, 33, 2873-2887.	3.2	2
4748	Machine Learning Algorithms for Industrial Applications. Studies in Computational Intelligence, 2021, ,	0.7	15
4749	SPICE Behavioral Modeling of TiO2 Memristors for Digital Logic Applications. Journal of Circuits, Systems and Computers, 2021, 30, 2120002.	1.0	2

#	Article	IF	CITATIONS
4750	Electronically Tunable Memcapacitor Emulator Based on Operational Transconductance Amplifiers. Journal of Circuits, Systems and Computers, 2021, 30, 2150082.	1.0	15
4752	Exponential stability and synchronization of Memristor-based fractional-order fuzzy cellular neural networks with multiple delays. Neurocomputing, 2021, 419, 239-250.	3. 5	34
4753	Reliable stability and stabilizability for complex-valued memristive neural networks with actuator failures and aperiodic event-triggered sampled-data control. Nonlinear Analysis: Hybrid Systems, 2021, 39, 100977.	2.1	17
4754	New criteria for finite-time stability of fractional order memristor-based neural networks with time delays. Neurocomputing, 2021, 421, 349-359.	3. 5	26
4755	Hybrid CMOS/memristor crossbar structure for implementing hopfield neural network. Analog Integrated Circuits and Signal Processing, 2021, 107, 249-261.	0.9	8
4756	New criterion for finite-time synchronization of fractional order memristor-based neural networks with time delay. Applied Mathematics and Computation, 2021, 389, 125616.	1.4	51
4757	Dynamical analysis and image encryption application of a novel memristive hyperchaotic system. Optics and Laser Technology, 2021, 133, 106553.	2.2	66
4758	<scp>Memristorâ€based 2D1M</scp> architecture: Solution to sneak paths in <scp>multilevel</scp> memory. Transactions on Emerging Telecommunications Technologies, 2021, 32, .	2.6	3
4759	Effect of Ag doping on bipolar switching operation in molybdenum trioxide (MoO3) nanostructures for non-volatile memory. Journal of Alloys and Compounds, 2021, 862, 158035.	2.8	28
4760	Organic Memristive Devices for Neuromorphic Applications. BioNanoScience, 2021, 11, 227-231.	1.5	2
4761	Recent advances in resistive random access memory based on lead halide perovskite. InformaÄnÃ-MateriÃily, 2021, 3, 293-315.	8.5	70
4762	Designing a bidirectional, adaptive neural interface incorporating machine learning capabilities and memristor-enhanced hardware. Chaos, Solitons and Fractals, 2021, 142, 110504.	2.5	50
4763	Memristor-based neural network circuit of pavlov associative memory with dual mode switching. AEU - International Journal of Electronics and Communications, 2021, 129, 153552.	1.7	45
4764	Global dissipativity and finite-time synchronization of mixed time-varying delayed memristor-based neural networks with discontinuous activations. Journal of Intelligent and Fuzzy Systems, 2021, 40, 1695-1712.	0.8	1
4765	The Future of Memristors: Materials Engineering and Neural Networks. Advanced Functional Materials, 2021, 31, 2006773.	7.8	187
4766	Non-spike timing-dependent plasticity learning mechanism for memristive neural networks. Applied Intelligence, 2021, 51, 3684-3695.	3.3	6
4767	Analysis of series RL and RC circuits with time-invariant source using truncated M, Atangana beta and conformable derivatives. Journal of Ocean Engineering and Science, 2021, 6, 217-227.	1.7	38
4768	A higher dimensional chaotic map with discrete memristor. AEU - International Journal of Electronics and Communications, 2021, 129, 153539.	1.7	92

#	Article	IF	Citations
4769	Nonvolatile Boolean logic in the one-transistor-one-memristor crossbar array for reconfigurable logic computing. AEU - International Journal of Electronics and Communications, 2021, 129, 153542.	1.7	10
4770	Complete synchronization of chaos in systems with nonlinear inertial coupling. Chaos, Solitons and Fractals, 2021, 142, 110459.	2.5	36
4771	Fault Tolerance of Memristor-Based Perceptron Network for Neural Interface. BioNanoScience, 2021, 11, 84-90.	1.5	8
4772	Lowâ€Power Computing with Neuromorphic Engineering. Advanced Intelligent Systems, 2021, 3, 2000150.	3.3	27
4773	Competing memristors for brain-inspired computing. IScience, 2021, 24, 101889.	1.9	51
4774	Multilevel resistive switching and synaptic plasticity of nanoparticulated cobaltite oxide memristive device. Journal of Materials Science and Technology, 2021, 78, 81-91.	5.6	27
4775	Quasi-stability and quasi-synchronization control of quaternion-valued fractional-order discrete-time memristive neural networks. Applied Mathematics and Computation, 2021, 395, 125851.	1.4	38
4776	Probabilistic Resistive Switching Device Modeling Based on Markov Jump Processes. IEEE Access, 2021, 9, 983-988.	2.6	9
4777	Optoelectronic dynamic memristor systems based on two-dimensional crystals. Chaos, Solitons and Fractals, 2021, 142, 110523.	2.5	11
4778	Analytical modeling of graphene oxide based memristor. Ain Shams Engineering Journal, 2021, 12, 1741-1748.	3.5	6
4779	A Monochloro Copper Phthalocyanine Memristor with Highâ€√Temperature Resilience for Electronic Synapse Applications. Advanced Materials, 2021, 33, e2006201.	11.1	51
4780	Variability analysis of resistive ternary content addressable memories. International Journal of Circuit Theory and Applications, 2021, 49, 453-475.	1.3	4
4781	Information Density in Multi-Layer Resistive Memories. IEEE Transactions on Information Theory, 2021, 67, 1446-1460.	1.5	1
4782	Electronically Controllable Memcapacitor Circuit With Experimental Results. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1443-1447.	2.2	22
4783	Application of Memristors in Hardware Security: A Current Stateâ€ofâ€theâ€Art Technology. Advanced Intelligent Systems, 2021, 3, 2000127.	3.3	20
4784	Nonlinear Circuits and Systems with Memristors. , 2021, , .		23
4785	Pinning synchronization of fractional-order memristor-based neural networks with multiple time-varying delays via static or dynamic coupling. Journal of the Franklin Institute, 2021, 358, 895-933.	1.9	23
4786	Solution-processed electronics for artificial synapses. Materials Horizons, 2021, 8, 447-470.	6.4	74

#	Article	IF	CITATIONS
4787	Carbon nanotube field effect transistor (<scp>CNTFET</scp>) operational transconductance amplifier (<scp>OTA</scp>) based design of high frequency memristor emulator. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2021, 34, e2827.	1.2	10
4788	XB-SIMâ^—: A simulation framework for modeling and exploration of ReRAM-based CNN acceleration design. Tsinghua Science and Technology, 2021, 26, 322-334.	4.1	6
4789	Intermittent and metastable chaos in a memristive artificial neuron with inertia. Chaos, Solitons and Fractals, 2021, 142, 110383.	2.5	8
4790	Ladder Scaling Fracmemristor: A Second Emerging Circuit Structure of Fractional-Order Memristor. IEEE Design and Test, 2021, 38, 104-111.	1.1	7
4791	Multiple $\langle i \rangle \hat{l} /\!\!/ 4 \langle i \rangle$ -Stable Synchronization Control for Coupled Memristive Neural Networks With Unbounded Time Delays. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 990-1002.	5.9	10
4792	Memristor Emulator Circuits., 2021, , .		4
4793	NEW PERSPECTIVE AIMED AT LOCAL FRACTIONAL ORDER MEMRISTOR MODEL ON CANTOR SETS. Fractals, 2021, 29, 2150011.	1.8	8
4794	A Novel Bipolar Photon-Controlled Generalized Memristor Based on Avalanche Photodiode. Journal of Circuits, Systems and Computers, 2021, 30, 2150090.	1.0	1
4795	Memristor-Based Variation-Enabled Differentially Private Learning Systems for Edge Computing in IoT. IEEE Internet of Things Journal, 2021, 8, 9672-9682.	5. 5	8
4796	Memristive biophysical neuron models forming an excitatory–inhibitory neural network for modeling PING rhythm generation. Journal of Computational Electronics, 2021, 20, 681-708.	1.3	O
4797	Memristor BJT pair based low complex circuits for portable electronics. Analog Integrated Circuits and Signal Processing, 2021, 107, 239-247.	0.9	0
4798	Memristive device with highly continuous conduction modulation and its underlying physical mechanism for electronic synapse application. Science China Materials, 2021, 64, 179-188.	3.5	5
4799	Fixed-Time Synchronization of Second-Order MNNs in Quaternion Field. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 3587-3598.	5.9	35
4800	Finite-Time Synchronization of Memristive Neural Networks With Fractional-Order. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 3739-3750.	5.9	41
4801	Memory feedback finite-time control for memristive neutral-type neural networks with quantization. Chinese Journal of Physics, 2021, 70, 271-287.	2.0	6
4802	Finite-Time and Fixed-Time Synchronization of Coupled Memristive Neural Networks With Time Delay. IEEE Transactions on Cybernetics, 2021, 51, 2944-2955.	6.2	59
4803	Exponential Stabilization of Inertial Memristive Neural Networks With Multiple Time Delays. IEEE Transactions on Cybernetics, 2021, 51, 579-588.	6.2	52
4804	A CNFET-based PVT-tolerant Hybrid Majority Logic 4:2 Compressor Design for High Speed Energy-Efficient Applications. Microprocessors and Microsystems, 2021, , 104031.	1.8	2

#	Article	IF	CITATIONS
4805	History Erase Effect of Real Memristors. Electronics (Switzerland), 2021, 10, 303.	1.8	3
4806	On Growing Computers from Living Biological Cells. , 2021, , 933-961.		0
4807	Current Differencing Buffered Amplifier Based Memristive Quadrature Oscillator., 2021,,.		1
4808	Memristor-based novel 4D chaotic system without equilibria. , 2021, , 183-205.		2
4809	Control of bursting oscillations in memristor based Wien-bridge oscillator., 2021,, 249-261.		0
4810	A Survey of FPGA Logic Cell Designs in the Light of Emerging Technologies. IEEE Access, 2021, 9, 91564-91574.	2.6	6
4811	Generating Any Number of Initial Offset-Boosted Coexisting Chua's Double-Scroll Attractors via Piecewise-Nonlinear Memristor. IEEE Transactions on Industrial Electronics, 2022, 69, 7202-7212.	5.2	61
4812	Memristor-based BAM circuit implementation for image associative memory and filling-in. Neural Computing and Applications, 2021, 33, 7929-7942.	3.2	15
4813	A new Lorentz chaotic system and its circuit implementation. , 2021, , .		0
4814	A Behavioral SPICE Model of a Binarized Memristor for Digital Logic Implementation. Circuits, Systems, and Signal Processing, 2021, 40, 2682-2693.	1.2	15
4815	Neuromorphic Low-Power Inference on Memristive Crossbars With On-Chip Offset Calibration. IEEE Access, 2021, 9, 38043-38061.	2.6	11
4816	Memristors as Candidates for Replacing Digital Potentiometers in Electric Circuits. Electronics (Switzerland), 2021, 10, 181.	1.8	7
4817	Probabilistic memristive networks: Application of a master equation to networks of binary ReRAM cells. Chaos, Solitons and Fractals, 2021, 142, 110385.	2.5	14
4818	Ti ₃ C ₂ -Based MXene Oxide Nanosheets for Resistive Memory and Synaptic Learning Applications. ACS Applied Materials & Samp; Interfaces, 2021, 13, 5216-5227.	4.0	95
4819	Event-Triggered Impulsive Fault-Tolerant Control for Memristor-Based RDNNs With Actuator Faults. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 2993-3004.	7.2	4
4820	Brain-like intelligence. , 2021, , 537-593.		1
4822	Memristive Circuit Design of Brain-Like Emotional Learning and Generation. IEEE Transactions on Cybernetics, 2023, 53, 222-235.	6.2	14
4823	Minimum variance control of chaos in a hyperchaotic memristor based oscillator using online particle swarm optimization. Physica Scripta, 2021, 96, 035221.	1.2	2

#	Article	IF	CITATIONS
4824	Fault Modeling and Efficient Testing of Memristor-Based Memory. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 4444-4455.	3.5	16
4825	Research progress of neuromorphic computation based on memcapacitors. Wuli Xuebao/Acta Physica Sinica, 2021, 70, 078701.	0.2	3
4826	Towards peptide-based tunable multistate memristive materials. Physical Chemistry Chemical Physics, 2021, 23, 1802-1810.	1.3	7
4827	Resistive Random Access Memory Device Physics and Array Architectures. , 2021, , 319-343.		1
4828	A Process-Aware Memory Compact-Device Model Using Long-Short Term Memory. IEEE Access, 2021, 9, 3126-3139.	2.6	12
4829	Memristor-Based Neural Network Circuit of Associative Memory with Multimodal Synergy. Communications in Computer and Information Science, 2021, , 381-395.	0.4	1
4830	Resistive Switching Effect of the Structure Based on Silicon Nitride. Technical Physics, 2021, 66, 133-138.	0.2	1
4831	Neuromorphic vision networks for face recognition. , 2021, , 361-381.		0
4832	Discontinuous Event-Triggered Control for Local Stabilization of Memristive Neural Networks With Actuator Saturation: Discrete- and Continuous-Time Lyapunov Methods. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 1988-2000.	7.2	14
4833	Mathematical Formulation and OTA based Emulator for Three Cross-over Memristor. International Journal of Electronics, 0, , 1-28.	0.9	3
4834	SPICE model of HP-memristor using PWL window function for neuromorphic system design application. Materials Today: Proceedings, 2021, 34, 598-603.	0.9	1
4835	Suppression of ferroresonance using passive memristor emulator. Chinese Physics B, 2021, 30, 068401.	0.7	3
4836	Bifunctional Device with Highâ€Energy Storage Density and Ultralow Current Analog Resistive Switching. Advanced Electronic Materials, 2021, 7, 2000902.	2.6	11
4837	Quasisynchronization of Memristive Neural Networks With Communication Delays via Event-Triggered Impulsive Control. IEEE Transactions on Cybernetics, 2022, 52, 7682-7693.	6.2	9
4838	Cyclic voltammetry of volatile memristors in the Venus flytrap: short-term memory. Functional Plant Biology, 2021, 48, 567.	1.1	6
4839	A Novel Erbium-Doped Fiber Laser Chaotic Circuit Based on Memristor and Its Circuit Implementation. IEEE Access, 2021, 9, 70300-70312.	2.6	1
4840	Memristiv effect on W/Ti/p-Si structure: Aging phenomena and one of the origin of barrier inhomogeneity. Materials Today: Proceedings, 2021, 46, 7033-7039.	0.9	0
4841	Dynamical Analysis and Sampled-Data Stabilization of Memristor-Based Chua's Circuits. IEEE Access, 2021, 9, 25648-25658.	2.6	12

#	Article	IF	CITATIONS
4842	A Survey of Neuromorphic Computing-in-Memory: Architectures, Simulators, and Security. IEEE Design and Test, 2022, 39, 90-99.	1.1	19
4843	Implementation and Parametric Analysis of Memristor Models – Comparative Study. , 2021, , .		1
4844	Aperiodic Sampled-Data Control for Stabilization of Memristive Neural Networks With Actuator Saturation: A Dynamic Partitioning Method. IEEE Transactions on Cybernetics, 2023, 53, 1725-1737.	6.2	9
4845	ABO ₃ multiferroic perovskite materials for memristive memory and neuromorphic computing. Nanoscale Horizons, 2021, 6, 939-970.	4.1	79
4846	Implementation of Memristor Towards Better Hardware/Software Security Design. Transactions on Electrical and Electronic Materials, 2021, 22, 10-22.	1.0	6
4847	Memristor Modeling Using the Modified Nodal Analysis Approach. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2022, 41, 1191-1195.	1.9	5
4848	Neuristor based electronically controllable logic gates. Analog Integrated Circuits and Signal Processing, 2021, 106, 707-711.	0.9	2
4849	RRAM Device Characterizations and Modelling. , 2021, , 345-381.		0
4850	Dynamic Pinning Synchronization of Fuzzy-Dependent-Switched Coupled Memristive Neural Networks With Mismatched Dimensions on Time Scales. IEEE Transactions on Fuzzy Systems, 2022, 30, 779-793.	6.5	17
4851	Mem-Elements Emulator Design With Experimental Validation and Its Application. IEEE Access, 2021, 9, 69860-69875.	2.6	24
4852	Selected Bit-Line Current PUF: Implementation of Hardware Security Primitive Based on a Memristor Crossbar Array. IEEE Access, 2021, 9, 120901-120910.	2.6	5
4853	On the FPGA implementation of chaotic oscillators based on memristive circuits. , 2021, , 41-66.		0
4854	Fuzzy integral sliding mode technique for synchronization of memristive neural networks. , 2021, , 485-500.		3
4855	Rich dynamics of memristor based Liénard systems. , 2021, , 125-145.		0
4856	Post-Moore Memory Technology: Sneak Path Current (SPC) Phenomena on RRAM Crossbar Array and Solutions. Micromachines, 2021, 12, 50.	1.4	23
4857	Enhancing Reliability of Studies on Single Filament Memristive Switching via an Unconventional cAFM Approach. Nanomaterials, 2021, 11, 265.	1.9	7
4858	Optimization of Memristive Crossbar Array for Physical Unclonable Function Applications. IEEE Access, 2021, 9, 84480-84489.	2.6	5
4859	An ultrathin memristor based on a two-dimensional WS ₂ /MoS ₂ heterojunction. Nanoscale, 2021, 13, 11497-11504.	2.8	39

#	Article	IF	Citations
4860	Adaptive Synchronization for Delayed Chaotic Memristor-Based Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 601-610.	7.2	8
4861	Perovskite-inspired materials for photovoltaics and beyondâ€"from design to devices. Nanotechnology, 2021, 32, 132004.	1.3	106
4862	Memristive Circuit Implementation of Context-Dependent Emotional Learning Network and Its Application in Multitask. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2022, 41, 3052-3065.	1.9	28
4863	Transport at the nanoscale. , 2021, , 363-460.		O
4864	Generalized Finite-Time Stability and Stabilization for Fractional-Order Memristive Neural Networks. Optical Memory and Neural Networks (Information Optics), 2021, 30, 11-25.	0.4	1
4865	Modeling and Analysis of a Three-Terminal-Memristor-Based Conservative Chaotic System. Entropy, 2021, 23, 71.	1.1	16
4866	Efficient Techniques for Training the Memristor-based Spiking Neural Networks Targeting Better Speed, Energy and Lifetime. , 2021 , , .		2
4867	Scaling of Attractors of a Multiscroll Memristive Chaotic System and its Generalized Synchronization with Sliding Mode Control. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2150007.	0.7	3
4868	Connecting mem-models with classical theories. Nonlinear Dynamics, 2021, 103, 1321-1344.	2.7	3
4869	Multistability of Dynamic Memristor Delayed Cellular Neural Networks With Application to Associative Memories. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 690-702.	7.2	17
4870	Nonconventional Computer Arithmetic Circuits, Systems and Applications. IEEE Circuits and Systems Magazine, 2021, 21, 6-40.	2.6	27
4871	Memristor Helmholtz oscillator: analysis, electronic implementation, synchronization and chaos control using single controller., 2021,, 207-223.		0
4872	Memristor, mem-systems and neuromorphic applications: a review., 2021,, 265-285.		0
4873	The fourth circuit element was found: a brief history. , 2021, , 3-15.		2
4874	Implementing memristor emulators in hardware. , 2021, , 17-40.		0
4875	ZnO Based Resistive Random Access Memory Device: A Prospective Multifunctional Next-Generation Memory. IEEE Access, 2021, 9, 105012-105047.	2.6	28
4876	Correlation between Symmetry and Phase Transition Temperature of VO ₂ Films Deposited on Al ₂ O ₃ Substrates with Various Orientations. Advanced Electronic Materials, 2021, 7, 2000874.	2.6	12
4877	Nanoscale molecular layers for memory devices: challenges and opportunities for commercialization. Journal of Materials Chemistry C, 2021, 9, 11497-11516.	2.7	18

#	ARTICLE	IF	Citations
4878	New Criteria on Stability of Dynamic Memristor Delayed Cellular Neural Networks. IEEE Transactions on Cybernetics, 2022, 52, 5367-5379.	6.2	15
4879	Multiple Mismatched Synchronization for Coupled Memristive Neural Networks With Topology-Based Probability Impulsive Mechanism on Time Scales. IEEE Transactions on Cybernetics, 2023, 53, 1485-1498.	6.2	4
4880	Dynamic memristor-based reservoir computing for high-efficiency temporal signal processing. Nature Communications, 2021, 12, 408.	5.8	231
4881	Evaluating the Performances of Memristor, FinFET, and Graphene TFET in VLSI Circuit Design., 2021,,.		13
4882	Hardware-Aware Design for Edge Intelligence. IEEE Open Journal of Circuits and Systems, 2021, 2, 113-127.	1.4	7
4883	Memristive approach for estimation of bacterial pathogen E. coli concentration using ZnS quantum dots. Materials Today: Proceedings, 2021, 43, 3891-3895.	0.9	1
4884	State bounding for fuzzy memristive neural networks with bounded input disturbances. Neural Networks, 2021, 134, 163-172.	3.3	13
4885	Dynamical analysis, circuit implementation and synchronization of a new memristive hyperchaotic system with coexisting attractors. Modern Physics Letters B, 2021, 35, 2150187.	1.0	17
4886	Facile synthesis of nickel cobaltite quasi-hexagonal nanosheets for multilevel resistive switching and synaptic learning applications. NPG Asia Materials, 2021, 13, .	3.8	46
4887	Enhanced equilibrium optimization method with fractional order chaotic and application engineering. Neural Computing and Applications, 2021, 33, 9849-9876.	3.2	18
4888	Utilizing Sneak Paths for Memristor Test Time Improvement. IETE Journal of Research, 2023, 69, 2005-2014.	1.8	0
4889	Quasi-Synchronization of Fractional-Order Complex-Valued Memristive Recurrent Neural Networks with Switching Jumps Mismatch. Neural Processing Letters, 2021, 53, 865-891.	2.0	5
4890	Image Encryption Based on A Novel Memristive Chaotic System with Super Wide Range and Multiple Image Morphing., 2021,,.		0
4891	Effect of ZnS and PbS shell on mem-behavior of CdS quantum dots. Journal of Materials Science: Materials in Electronics, 2021, 32, 7049.	1.1	1
4892	Design of memristor materials from ordered-vacancy zincblende semiconductors. Physical Review Materials, 2021, 5, .	0.9	4
4893	Global asymptotic stability of neutral type fractionalâ€order memristorâ€based neural networks with leakage term, discrete and distributed delays. Mathematical Methods in the Applied Sciences, 2021, 44, 5953-5973.	1.2	18
4894	Generalizing HMMs to Continuous Time for Fast Kinetics: Hidden Markov Jump Processes. Biophysical Journal, 2021, 120, 409-423.	0.2	23
4895	Egg-White-Based Polymer Memristors With Competing Electronic-Ionic Effect and Timescale-Dependent Current Modulation. IEEE Electron Device Letters, 2021, 42, 228-231.	2.2	6

#	ARTICLE	IF	CITATIONS
4896	Instruction Controlled In-memory Sorting on Memristor Crossbars. , 2021, , .		2
4897	Chaos suppression for a Buck converter with the memristive load. Analog Integrated Circuits and Signal Processing, 2021, 107, 309-318.	0.9	12
4898	A Review of Resistive Switching Devices: Performance Improvement, Characterization, and Applications. Small Structures, 2021, 2, 2000109.	6.9	94
4899	Verticalâ€organicâ€nanocrystalâ€arrays for crossbar memristors with tuning switching dynamics toward neuromorphic computing. SmartMat, 2021, 2, 99-108.	6.4	73
4900	Exponential and fixedâ€time stabilization of memristive neural networks with mixed delays. Mathematical Methods in the Applied Sciences, 2021, 44, 7275-7293.	1.2	9
4901	Parity-time symmetric systems with memory. Physical Review Research, 2021, 3, .	1.3	6
4902	On the organic memristive device resistive switching efficacy. Chaos, Solitons and Fractals, 2021, 143, 110549.	2.5	6
4903	Analysis of Fourth-order Chaotic Circuit Based on the Memristor Model for Wireless Communication. IETE Journal of Research, 2023, 69, 2384-2391.	1.8	1
4904	COMPACT: Flow-Based Computing on Nanoscale Crossbars with Minimal Semiperimeter. , 2021, , .		7
4905	Four quadrant analog multiplier based memristor emulator using single active element. AEU - International Journal of Electronics and Communications, 2021, 130, 153575.	1.7	8
4906	Control of self-sustained oscillatory behavior in the dynamics of generalized Bonhoeffer-van der Pol system: Effect of asymmetric parameter. Physica Scripta, 2021, 96, 045205.	1.2	2
4907	Multibit-RRAM readout circuits based on non-balanced inverters. Microelectronics Journal, 2021, 108, 104965.	1.1	2
4908	Perspectives on Emerging Computation-in-Memory Paradigms. , 2021, , .		9
4909	Noise Tailoring in Memristive Filaments. ACS Applied Materials & Samp; Interfaces, 2021, 13, 7453-7460.	4.0	16
4910	EID-based robust stabilization for delayed fractional-order nonlinear uncertain system with application in memristive neural networks. Chaos, Solitons and Fractals, 2021, 144, 110705.	2.5	7
4911	CMOS realization of OTA based tunable grounded meminductor. Analog Integrated Circuits and Signal Processing, 2021, 107, 475-482.	0.9	13
4912	A Study on Memristor Based Mo/n-Si/Mo Schottky Diode with Wide Electrodes. , 2021, , .		0
4913	Memristive hyperchaos secure communication based on sliding mode control. Nonlinear Dynamics, 2021, 104, 789-805.	2.7	28

#	Article	IF	CITATIONS
4914	Synaptic learning functionalities of inverse biomemristive device based on trypsin for artificial intelligence application. Journal of Materials Research and Technology, 2021, 11, 1100-1110.	2.6	24
4915	Stochastic resonance in a metal-oxide memristive device. Chaos, Solitons and Fractals, 2021, 144, 110723.	2.5	101
4916	Advances in Memristor-Based Neural Networks. Frontiers in Nanotechnology, 2021, 3, .	2.4	51
4917	Memristors With Controllable Data Volatility by Loading Metal Ion-Added Ionic Liquids. Frontiers in Nanotechnology, 2021, 3, .	2.4	5
4918	Design of a Memristor-Based Digital to Analog Converter (DAC). Electronics (Switzerland), 2021, 10, 622.	1.8	8
4919	On Defect Tolerance of Nanocrossbar Arrays using Divide and Conquer Technique. , 2021, , .		O
4920	Hardware Security for and beyond CMOS Technology. , 2021, , .		6
4921	Functional Applications of Future Data Storage Devices. Advanced Electronic Materials, 2021, 7, 2001181.	2.6	20
4923	Exponential Stabilization of Memristor-based Recurrent Neural Networks with Disturbance and Mixed Time Delays via Periodically Intermittent Control. International Journal of Control, Automation and Systems, 2021, 19, 2284-2296.	1.6	10
4924	Stabilizability of complex complex-valued memristive neural networks using non-fragile sampled-data control. Journal of the Franklin Institute, 2021, 358, 2320-2345.	1.9	7
4925	SPICE Behaviors of Double Memristor Circuits Using Cosine Window Function. Frontiers in Physics, 2021, 9, .	1.0	3
4926	Phase domain boundary motion and memristance in gradient-doped FeRh nanopillars induced by spin injection. Applied Physics Letters, $2021,118,\ldots$	1.5	6
4927	A novel fractional nonautonomous chaotic circuit model and its application to image encryption. Chaos, Solitons and Fractals, 2021, 144, 110686.	2.5	24
4928	Chaos-Based Engineering Applications with a 6D Memristive Multistable Hyperchaotic System and a 2D SF-SIMM Hyperchaotic Map. Complexity, 2021, 2021, 1-21.	0.9	25
4929	A nanoscale Cu2â^'xSe ultrathin film deposited via atomic layer deposition and its memristive effects. Nanotechnology, 2021, 32, 245202.	1.3	1
4930	Behavioral Modeling of Memristor-Based Rectifier Bridge. Applied Sciences (Switzerland), 2021, 11, 2908.	1.3	1
4932	Quasi-Synchronization of Nonidentical Fractional-Order Memristive Neural Networks via Impulsive Control. Discrete Dynamics in Nature and Society, 2021, 2021, 1-10.	0.5	0
4933	Resonant activation of resistive switching in ZrO2(Y) films. Journal of Physics: Conference Series, 2021, 1851, 012003.	0.3	6

#	Article	IF	CITATIONS
4934	Implementation of Symmetric Functions Using Memristive Nanocrossbar Arrays and their Application in Cryptography. Journal of Circuits, Systems and Computers, 0, , 2150223.	1.0	0
4935	Coexisting firing patterns and phase synchronization in locally active memristor coupled neurons with HR and FN models. Nonlinear Dynamics, 2021, 104, 1455-1473.	2.7	89
4936	Thresholdâ€type memristorâ€based memory circuit. International Journal of Circuit Theory and Applications, 2021, 49, 1515-1531.	1.3	5
4938	Complex dynamics behavior analysis of a new chaotic system based on fractional-order memristor. Journal of Physics: Conference Series, 2021, 1861, 012114.	0.3	2
4939	Bipolar Resistive Switching in Junctions of Gallium Oxide and p-type Silicon. Nano Letters, 2021, 21, 2666-2674.	4. 5	24
4940	Mathematical framework for three cross-over memristor and its realization employing OTAs. Circuit World, 2021, ahead-of-print, .	0.7	1
4941	Bifunctional nanoparticulated nickel ferrite thin films: Resistive memory and aqueous battery applications. Materials and Design, 2021, 201, 109493.	3.3	16
4942	Dynamic behavior of fractional-order memristive time-delay system and image encryption application. Modern Physics Letters B, 2021, 35, 2150271.	1.0	4
4943	DYNAMICAL ANALYSIS OF THE MEMINDUCTOR-BASED CHAOTIC SYSTEM WITH HIDDEN ATTRACTOR. Fractals, 2021, 29, 2140020.	1.8	5
4944	Phaseâ€Transitionâ€Induced VO ₂ Thin Film IR Photodetector and Threshold Switching Selector for Optical Neural Network Applications. Advanced Electronic Materials, 2021, 7, 2001254.	2.6	27
4945	MXenes for memristive and tactile sensory systems. Applied Physics Reviews, 2021, 8, .	5.5	25
4946	Time series modeling of the cycle-to-cycle variability in h-BN based memristors. , 2021, , .		2
4947	A simple memristive jerk system. IET Circuits, Devices and Systems, 2021, 15, 388-392.	0.9	15
4948	Capacitive effects can make memristors chaotic. Chaos, Solitons and Fractals, 2021, 144, 110699.	2.5	20
4949	Memristorâ€transistor hybrid ternary content addressable memory using ternary memristive memory cell. IET Circuits, Devices and Systems, 2021, 15, 619-629.	0.9	4
4950	Memristive model of the Hodgkin-Huxley axon. , 2021, , .		0
4951	A novel non-equilibrium memristor-based system with multi-wing attractors and multiple transient transitions. Chaos, 2021, 31, 033105.	1.0	18
4952	Designing nonlinear thermal devices and metamaterials under the Fourier law: A route to nonlinear thermotics. Frontiers of Physics, 2021, 16, 1.	2.4	40

#	Article	IF	CITATIONS
4953	Low-Cost Test And Characterization Platform For Memristors. , 2021, , .		1
4954	Memristive learning cellular automata for edge detection. Chaos, Solitons and Fractals, 2021, 145, 110700.	2.5	13
4955	Characteristic Analysis of Fractional-Order Memristor-Based Hypogenetic Jerk System and Its DSP Implementation. Electronics (Switzerland), 2021, 10, 841.	1.8	18
4956	A new memductance-based fractional-order chaotic system and its fixed-time synchronisation. Chaos, Solitons and Fractals, 2021, 145, 110782.	2.5	11
4957	Role of noise in spiking dynamics of diffusive memristor driven by heating-cooling cycles. Chaos, Solitons and Fractals, 2021, 145, 110803.	2.5	12
4958	Novel Finite-Time Reliable Control Design for Memristor-Based Inertial Neural Networks With Mixed Time-Varying Delays. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 1599-1609.	3.5	89
4959	Spreading Operation Frequency Ranges of Memristor Emulators via a New Sine-Based Method. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2021, 29, 617-630.	2.1	11
4960	Global stabilization of fractional-order memristor-based neural networks with incommensurate orders and multiple time-varying delays: a positive-system-based approach. Nonlinear Dynamics, 2021, 104, 2303-2329.	2.7	19
4961	Novel Memristor-based Nonvolatile D Latch and Flip-flop Designs. , 2021, , .		6
4962	Memory function of memristive Hindmarsh–Rose model driven by colored noise and electromagnetic induction. International Journal of Modern Physics B, 0, , 2150117.	1.0	1
4963	Controllable High-Performance Memristors Based on 2D Fe2GeTe3 Oxide for Biological Synapse Imitation. Nanotechnology, 2021, 32, .	1.3	4
4964	High-Performance Resistive Switching in Solution-Derived IGZO:N Memristors by Microwave-Assisted Nitridation. Nanomaterials, 2021, 11, 1081.	1.9	21
4965	Prospects for application of ferroelectric manganites with controlled vortex density. Applied Physics Letters, 2021, 118, .	1.5	3
4966	Symmetrical Hopf-induced bursting and hyperchaos control in memristor-based circuit. Chaos, 2021, 31, 043103.	1.0	10
4967	Surface-Confined Ruthenium Complexes Bearing Benzimidazole Derivatives: Toward Functional Devices., 0,,.		0
4968	Basin of Attraction Analysis of New Memristor-Based Fractional-Order Chaotic System. Complexity, 2021, 2021, 1-9.	0.9	4
4969	Heterogeneous dual memristive circuit: Multistability, symmetry, and FPGA implementation*. Chinese Physics B, 2021, 30, 120502.	0.7	5
4970	Operational Transconductance Amplifier-Based Electronically Controllable Memcapacitor and Meminductor Emulators. Journal of Circuits, Systems and Computers, 2021, 30, .	1.0	8

#	Article	IF	CITATIONS
4971	New tunable resistorless grounded meminductor emulator. Journal of Computational Electronics, 2021, 20, 1452-1460.	1.3	17
4972	Synchronization of neural networks with memristor-resistor bridge synapses and Lévy noise. Neurocomputing, 2021, 432, 262-274.	3.5	5
4973	On Local Activity and Edge of Chaos in a NaMLab Memristor. Frontiers in Neuroscience, 2021, 15, 651452.	1.4	63
4974	Emerging Technologies: Challenges and Opportunities for Logic Synthesis. , 2021, , .		1
4975	Stimuliâ€Responsive Memristive Materials for Artificial Synapses and Neuromorphic Computing. Advanced Materials, 2021, 33, e2006469.	11.1	88
4976	Symmetry and asymmetry induced dynamics in a memristive twin-T circuit. International Journal of Electronics, 2022, 109, 337-366.	0.9	11
4977	Floating Memristor and Inverse Memristor Emulators with Electronic Tuning. Journal of Circuits, Systems and Computers, 2021, 30, .	1.0	2
4978	Hybrid Memristor–CMOS Implementation of Combinational Logic Based on X-MRL. Electronics (Switzerland), 2021, 10, 1018.	1.8	8
4979	Investigation of Multiple-valued Logic Technologies for Beyond-binary Era. ACM Computing Surveys, 2022, 54, 1-30.	16.1	23
4980	A New Memristive Chaotic System with a Plane and Two Lines of Equilibria. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2150066.	0.7	3
4981	Modeling-Based Design of Memristive Devices for Brain-Inspired Computing. Frontiers in Nanotechnology, 2021, 3, .	2.4	5
4982	Capacitive coupled non-zero l–V and type-II memristive properties of the NiFe2O4–TiO2 nanocomposite. Materials Science in Semiconductor Processing, 2021, 125, 105646.	1.9	21
4983	On the dynamics of chaotic circuits based on memristive diode-bridge with variable symmetry: A case study. Chaos, Solitons and Fractals, 2021, 145, 110795.	2.5	11
4984	Room temperature memristive switching in nano-patterned LaAlO3/SrTiO3 wires with laterally defined gates. Applied Physics Letters, 2021, 118, .	1.5	5
4985	Detection Limit for Intermediate Faults in Memristor Circuits., 2021,,.		1
4986	Improving DNN Fault Tolerance using Weight Pruning and Differential Crossbar Mapping for ReRAM-based Edge Al., 2021, , .		19
4987	Exponential Synchronization of Memristive Neural Networks with Discrete and Distributed Time-Varying Delays via Event-Triggered Control. Discrete Dynamics in Nature and Society, 2021, 2021, 1-15.	0.5	0
4988	Novel Meminductor Emulators Using Operational Amplifiers and their Applications in Chaotic Oscillators. Journal of Circuits, Systems and Computers, 2021, 30, .	1.0	14

#	ARTICLE	IF	CITATIONS
4989	Advances in Halide Perovskite Memristor from Lead-Based to Lead-Free Materials. ACS Applied Materials & Lead-Free Materi	4.0	64
4990	Memristive Stateful Logic for Edge Boolean Computers. Advanced Intelligent Systems, 2021, 3, 2000278.	3. 3	25
4991	Anomalous resistive switching in memristors based on two-dimensional palladium diselenide using heterophase grain boundaries. Nature Electronics, 2021, 4, 348-356.	13.1	112
4992	Global asymptotic synchronization of fractional order multiâ€inked memristive neural networks with timeâ€varying delays via discontinuous control. Mathematical Methods in the Applied Sciences, 0, , .	1.2	5
4993	Equilibrium analysis of Mott memristor reveals criterion for negative differential resistance. Applied Physics Letters, 2021, 118, .	1.5	7
4994	Non-reduced order strategies for global dissipativity of memristive neutral-type inertial neural networks with mixed time-varying delays. Neurocomputing, 2021, 436, 174-183.	3.5	11
4995	Memcapacitor and Meminductor Circuit Emulators: A Review. Electronics (Switzerland), 2021, 10, 1225.	1.8	22
4996	Memristor-based Hopfield network circuit for recognition and sequencing application. AEU - International Journal of Electronics and Communications, 2021, 134, 153698.	1.7	26
4997	Edge of Chaos in Memristor CNN with Hysteresis and Applications in Pattern Formation., 2021,,.		2
4998	A Novel Nonideal Flux-Controlled Memristor Model for Generating Arbitrary Multi-Double-Scroll and Multi-Double-Wing Attractors. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2150086.	0.7	17
4999	Dynamics of a Bistable Current-Controlled Locally-Active Memristor. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2130018.	0.7	7
5000	Modeling and character analyzing of multiple fractional-order memcapacitors in parallel connection. Chinese Physics B, 2022, 31, 018401.	0.7	0
5001	A new locally active memristive synapse-coupled neuron model. Nonlinear Dynamics, 2021, 104, 4459-4475.	2.7	32
5002	A Flux Controlled Memristor using 90nm Technology. Indian Journal of Signal Processing, 2021, 1, 1-6.	0.0	O
5003	Clonable PUF: on the Design of PUFs That Share Equivalent Responses. , 2021, , .		2
5004	Chaos in the discrete memristor-based system with fractional-order difference. Results in Physics, 2021, 24, 104106.	2.0	75
5005	Artificial Synapses Based on Atomic/Molecular Layer Deposited Bilayer-Structured Memristive Thin Films. , 0, , .		0
5006	Design and implementation of a floating meminductor emulator upon Riordan gyrator. AEU - International Journal of Electronics and Communications, 2021, 133, 153671.	1.7	10

#	Article	IF	CITATIONS
5007	HPM: High-Precision Modeling of a Low-Power Inverter-Based Memristive Neural Network. Journal of Circuits, Systems and Computers, 2021, 30, .	1.0	1
5008	Nonparametric bifurcation mechanism in 2-D hyperchaotic discrete memristor-based map. Nonlinear Dynamics, 2021, 104, 4601-4614.	2.7	28
5009	Spice modelling of a triâ€state memristor and analysis of its series and parallel characteristics. IET Circuits, Devices and Systems, 2022, 16, 81-91.	0.9	5
5010	Simple fluxâ€controlled grounded memristor emulator circuits based on current follower. Analog Integrated Circuits and Signal Processing, 2021, 108, 215-219.	0.9	8
5011	Fully Circuit Implementation of a two-layer Memristive Neural Network for Pattern Recognition. , 2021, , .		1
5012	Design and implementation of memristive neuron leakage integrator, and learning feedback. , 2021, , .		0
5013	Synaptic devices based neuromorphic computing applications in artificial intelligence. Materials Today Physics, 2021, 18, 100393.	2.9	110
5014	Generalized Memristor Model using Simulink and its Rectification for Sinusoidal and other Periodic Signals., 2021,,.		0
5015	Low-Power High-Speed 8-bit Conditional Carry Adder (CCA) using Memristor Logic., 2021,,.		0
5016	Halide Perovskites: A New Era of Solutionâ€Processed Electronics. Advanced Materials, 2021, 33, e2005000.	11.1	138
5017	System-Theoretic Methods for Designing Bio-Inspired Mem-Computing Memristor Cellular Nonlinear Networks. Frontiers in Nanotechnology, 2021, 3, .	2.4	12
5018	Mean square exponential stability for stochastic memristor-based neural networks with leakage delay. Chaos, Solitons and Fractals, 2021, 146, 110811.	2.5	11
5019	Skyrmion devices for memory and logic applications. APL Materials, 2021, 9, .	2.2	89
5020	Functional Capabilities of Coupled Memristor-Based Reactance-Less Oscillators. , 0, , .		2
5021	A simple time-delay memristor and its application in 2D HR neuron model. International Journal of Modern Physics B, 2021, 35, 2150166.	1.0	6
5022	Uncertainty Quantification of Memristor Crossbar Array for Vector Matrix Multiplication., 2021,,.		5
5023	Current Multiplier Based Synapse and Neuron Circuits for Compact SNN Chip., 2021,,.		4
5024	Memristor–CMOS hybrid ultra-low-power high-speed multivibrators. Analog Integrated Circuits and Signal Processing, 2022, 110, 47-53.	0.9	0

#	Article	IF	CITATIONS
5025	An Efficient 3D ReRAM Convolution Processor Design for Binarized Weight Networks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1600-1604.	2.2	8
5026	Charge storage in metal-chalcogenide bilayer junctions. Journal Physics D: Applied Physics, 2021, 54, 295105.	1.3	3
5027	Memristor-based synaptic plasticity and unsupervised learning of spiking neural networks. Journal of Computational Electronics, 2021, 20, 1625-1636.	1.3	6
5028	Fast FPGA-Based Emulation for ReRAM-Enabled Deep Neural Network Accelerator. , 2021, , .		3
5029	Implementation of Binary Stochastic STDP Learning Using Chalcogenide-Based Memristive Devices. , 2021, , .		3
5030	Bursting oscillations and bifurcation mechanism in a fully integrated piecewise-smooth chaotic system. European Physical Journal: Special Topics, 2021, 230, 1737-1749.	1.2	7
5031	Complementary Memresistive Switch Based Realization of Delay and Toggle Flip-Flop. , 2021, , .		0
5032	New area efficient memristor realizations. Microelectronics Journal, 2021, 111, 105037.	1.1	5
5033	Addressing crosstalk in crossbar memory arrays with a resistive switching ZnO homojunction diode. Journal of Applied Physics, 2021, 129, .	1.1	1
5034	Simulation of memristive synapses and neuromorphic computing on a quantum computer. Physical Review Research, 2021, 3, .	1.3	8
5035	Practical demonstration of a RRAM memory fuse. International Journal of Circuit Theory and Applications, 2021, 49, 2363-2372.	1.3	2
5036	Performance Improvement and Comparative Analysis of Memristive Emulator Networks., 2021,,.		0
5037	Local Learning in Memristive Neural Networks for Pattern Reconstruction., 2021,,.		0
5038	FORMS: Fine-grained Polarized ReRAM-based In-situ Computation for Mixed-signal DNN Accelerator. , 2021, , .		28
5039	Simulation and Modeling Methodologies: Enabler for Neuromorphic Computing Applications. , 2021, , .		0
5040	Hidden multistability in four fractional-order memristive, meminductive and memcapacitive chaotic systems with bursting and boosting phenomena. European Physical Journal: Special Topics, 2021, 230, 1773-1783.	1.2	12
5041	The Birth of a New Field: Memristive Sensors. A Review. IEEE Sensors Journal, 2021, 21, 12370-12378.	2.4	22
5042	Lagrangian and Hamiltonian formalisms for coupled higher-order elements: theory, modeling, simulation. Nonlinear Dynamics, 2021, 104, 3547-3560.	2.7	3

#	Article	IF	CITATIONS
5043	Counterion Gradients around Charged Metal Nanoparticles Enabling Basic Electronics without Semiconductors. Journal of Physical Chemistry Letters, 2021, 12, 6102-6110.	2.1	2
5044	A New Dynamical Circuit Based on CCII+, Physical Implementation and Synchronization. Journal of Circuits, Systems and Computers, 0, , 2150289.	1.0	0
5045	Spatial Mapping of Distributed Sensors Biomimicking the Human Vision System. Electronics (Switzerland), 2021, 10, 1443.	1.8	0
5046	Designing Twin Memristor-Based Multiscroll Systems by Varying the Flux Variable of Memristor. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2150099.	0.7	1
5047	Comparison of the Performance of the Memristor Models in 2D Cellular Nonlinear Network. Electronics (Switzerland), 2021, 10, 1577.	1.8	6
5048	Low-power emerging memristive designs towards secure hardware systems for applications in internet of things. Nano Materials Science, 2021, 3, 186-204.	3.9	22
5049	Prospect of Spintronics in Neuromorphic Computing. Advanced Electronic Materials, 2021, 7, 2100465.	2.6	33
5050	Design and simulation of high-speed and low-power memcapacitor-based nonvolatile static cells using FinFET transistors. Semiconductor Science and Technology, 2021, 36, 075027.	1.0	2
5051	Surface-Mounted Metal–Organic Frameworks: Past, Present, and Future Perspectives. Langmuir, 2021, 37, 6847-6863.	1.6	32
5052	Bioinspired Robotic Vision with Online Learning Capability and Rotationâ€Invariant Properties. Advanced Intelligent Systems, 2021, 3, 2100025.	3.3	3
5053	Emerging 2D Memory Devices for Inâ€Memory Computing. Advanced Materials, 2021, 33, e2007081.	11.1	92
5054	Memristor Circuits for Simulating Neuron Spiking and Burst Phenomena. Frontiers in Neuroscience, 2021, 15, 681035.	1.4	11
5055	A Simple Parallel Chaotic Circuit Based on Memristor. Entropy, 2021, 23, 719.	1.1	6
5056	Memristor-Based Neural Network Circuit of Emotion Congruent Memory With Mental Fatigue and Emotion Inhibition. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 606-616.	2.7	60
5057	Avalanches and edge-of-chaos learning in neuromorphic nanowire networks. Nature Communications, 2021, 12, 4008.	5.8	91
5058	Semiempirical Memdiode Model for Resistive Switching Devices in Dynamic Regimes. , 2021, , .		0
5059	Projective synchronization in finite-time for fully quaternion-valued memristive networks with fractional-order. Chaos, Solitons and Fractals, 2021, 147, 110911.	2.5	32
5060	Synchronization, circuit and secure communication implementation of a memristor-based hyperchaotic system using single input controller. Chinese Journal of Physics, 2021, 71, 403-417.	2.0	18

#	Article	IF	CITATIONS
5061	Recent progress on 2D materials-based artificial synapses. Critical Reviews in Solid State and Materials Sciences, 2022, 47, 665-690.	6.8	11
5062	Accelerating Al Applications using Analog In-Memory Computing. , 2021, , .		4
5063	Lead-free halide perovskites, beyond solar cells and LEDs. JPhys Energy, 2021, 3, 032014.	2.3	11
5064	Novel programmable single pulse generator for producing pulse widths in different time scales. , 2021, , .		1
5065	Exploiting Memristors for Neuromorphic Reinforcement Learning. , 2021, , .		4
5066	Memristor models for synapse component. , 2021, , .		1
5067	Parameter Identification of Memristor-Based Chaotic Systems via the Drive-Response Synchronization Method. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2082-2086.	2.2	2
5068	Two-Memristor-Based Chaotic System With Infinite Coexisting Attractors. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2197-2201.	2.2	77
5069	An SBT-memristor-based crossbar memory circuit*. Chinese Physics B, 2021, 30, 068402.	0.7	14
5070	Design of a Robust Memristive Spiking Neuromorphic System with Unsupervised Learning in Hardware. ACM Journal on Emerging Technologies in Computing Systems, 2021, 17, 1-26.	1.8	7
5071	New Grounded and Floating Memristor-Less Meminductor Emulators Using VDTA and CDBA. Journal of Circuits, Systems and Computers, 2021, 30, .	1.0	12
5072	Chaos break and synchrony enrichment within Hindmarsh–Rose-type memristive neural models. Nonlinear Dynamics, 2021, 105, 785-795.	2.7	19
5073	Fractional-order memristive neural synaptic weighting achieved by pulse-based fracmemristor bridge circuit. Frontiers of Information Technology and Electronic Engineering, 2021, 22, 862-876.	1.5	8
5074	The impact of memristive coupling initial states on travelling waves in an ensemble of the FitzHugh–Nagumo oscillators. Chaos, Solitons and Fractals, 2021, 147, 110923.	2.5	15
5075	Locally active memristor based oscillators: The dynamic route from period to chaos and hyperchaos. Chaos, 2021, 31, 063114.	1.0	13
5076	Design of Memristor-Based Combinational Logic Circuits. Circuits, Systems, and Signal Processing, 2021, 40, 5825-5846.	1.2	23
5077	Conduction and switching behavior of e-beam deposited polycrystalline Nb2O5 based nano-ionic memristor for non-volatile memory applications. Journal of Alloys and Compounds, 2021, 866, 158394.	2.8	31
5078	Competitive Neural Network Circuit Based on Winner-Take-All Mechanism and Online Hebbian Learning Rule. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2021, 29, 1095-1107.	2.1	5

#	ARTICLE	IF	CITATIONS
5080	Low power consumption photoelectric coupling perovskite memristor with adjustable threshold voltage. Nanotechnology, 2021, 32, 375201.	1.3	3
5081	TSSM: Three-State Switchable Memristor Model Based on Ag/TiOx Nanobelt/Ti Configuration. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2130020.	0.7	15
5082	A Low-Power Spiking Neural Network Chip Based on a Compact LIF Neuron and Binary Exponential Charge Injector Synapse Circuits. Sensors, 2021, 21, 4462.	2.1	12
5083	VDCC-Based Memcapacitor/Meminductor Emulator and Its Application in Adaptive Learning Circuit. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2021, 45, 1151-1163.	1.5	37
5084	Low power convolutional architectures: Three operator switching systems based on forgetting memristor bridge. Sustainable Cities and Society, 2021, 69, 102849.	5.1	6
5085	Novel Criteria of Stability for Delayed Memristive Quaternionic Neural Networks: Directly Quaternionic Method. Mathematics, 2021, 9, 1291.	1.1	2
5087	Finite/Fixed-Time Synchronization of Delayed Inertial Memristive Neural Networks with Discontinuous Activations and Disturbances. Neural Processing Letters, 2021, 53, 3525-3544.	2.0	9
5088	Noise and Memristance Variation Tolerance of Single Crossbar Architectures for Neuromorphic Image Recognition. Micromachines, 2021, 12, 690.	1.4	1
5089	Polymer/TiO ₂ Nanorod Nanocomposite Optical Memristor Device. Journal of Physical Chemistry C, 2021, 125, 14965-14973.	1.5	18
5090	Metal chalcogenides for neuromorphic computing: emerging materials and mechanisms. Nanotechnology, 2021, 32, 372001.	1.3	16
5091	A novel memcapacitor and its application in a chaotic circuit. Nonlinear Dynamics, 2021, 105, 877-886.	2.7	14
5092	Solid-state nanopore systems: from materials to applications. NPG Asia Materials, 2021, 13, .	3.8	47
5093	A Unified and Open LTSPICE Memristor Model Library. Electronics (Switzerland), 2021, 10, 1594.	1.8	30
5094	Design and analysis of XOR logic gate based on Photoelectric Memristor. , 2021, , .		0
5095	A 2D Discrete Chaotic Memristive Map and Its Application in Robot's Path Planning. , 2021, , .		1
5096	Deterministic modeling of the diffusive memristor. Chaos, 2021, 31, 073111.	1.0	8
5097	Electronically tunable high frequency single output OTA and DVCC based meminductor. Analog Integrated Circuits and Signal Processing, 2021, 109, 47-55.	0.9	8
5098	Serial RRAM Cell for Secure Bit Concealing. Electronics (Switzerland), 2021, 10, 1842.	1.8	4

#	Article	IF	CITATIONS
5099	Global exponential synchronization via nonlinear feedback control for delayed inertial memristor-based quaternion-valued neural networks with impulses. Applied Mathematics and Computation, 2021, 401, 126093.	1.4	27
5100	Sensing Circuit Design Techniques for RRAM in Advanced CMOS Technology Nodes. Micromachines, 2021, 12, 913.	1.4	7
5101	Memristive Crossbar Arrays for Storage and Computing Applications. Advanced Intelligent Systems, 2021, 3, 2100017.	3.3	80
5102	Synchronization of memristive neural networks with unknown parameters via event-triggered adaptive control. Neural Networks, 2021, 139, 255-264.	3.3	25
5103	Fixed-time Synchronization of Coupled Memristive Complex-valued Neural Networks. Chaos, Solitons and Fractals, 2021, 148, 110993.	2.5	45
5104	A tristable locally-active memristor and its complex dynamics. Chaos, Solitons and Fractals, 2021, 148, 111038.	2.5	16
5105	Artificial synaptic behavior of the SBT-memristor*. Chinese Physics B, 2021, 30, 078401.	0.7	12
5106	A Stochastic Switched Capacitor Memristor Emulator. , 2021, , .		1
5107	Polarity Reversal Effect of a Memristor From the Circuit Point of View and Insights Into the Memristor Fuse. Frontiers in Communications and Networks, 2021, 2, .	1.9	2
5108	Transition between bipolar and abnormal bipolar resistive switching in amorphous oxides with a mobility edge. Scientific Reports, 2021, 11, 14384.	1.6	3
5109	Fixed-Time Synchronization of Delayed Memristive Neural Networks with Discontinuous Activations. Journal of Mathematics, 2021, 2021, 1-25.	0.5	0
5110	Frugal discrete memristive device based on potassium permanganate solution. Materials Research Express, 2021, 8, 076304.	0.8	5
5111	A novel design for voltage inverting metamutator and its applications. Microelectronics Journal, 2021, 113, 105096.	1.1	3
5113	Organic Memory and Memristors: From Mechanisms, Materials to Devices. Advanced Electronic Materials, 2021, 7, 2100432.	2.6	81
5114	Quantized intermittent control tactics for exponential synchronization of quaternion-valued memristive delayed neural networks. ISA Transactions, 2022, 126, 288-299.	3.1	16
5115	Recent Advances in Dimensionality Reduction Modeling and Multistability Reconstitution of Memristive Circuit. Complexity, 2021, 2021, 1-18.	0.9	2
5116	Dynamic analysis of fractional-order memristive chaotic system with time delay and its application in color image encryption based on DNA encoding. European Physical Journal: Special Topics, 2021, 230, 1785-1803.	1.2	5
5117	Roadmap of Spin–Orbit Torques. IEEE Transactions on Magnetics, 2021, 57, 1-39.	1.2	225

#	Article	IF	CITATIONS
5118	Investigation of ReRAM Variability on Flow-Based Edge Detection Computing Using HfO ₂ -Based ReRAM Arrays. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 2900-2910.	3.5	4
5119	Subcritical Andronov–Hopf scenario for systems with a line of equilibria. Chaos, 2021, 31, 073102.	1.0	4
5120	Modeling and dynamics of double Hindmarsh–Rose neuron with memristor-based magnetic coupling and time delay*. Chinese Physics B, 2021, 30, 120516.	0.7	9
5121	Unconventional Logic on Memristor-Based Oscillatory Medium. , 2021, , .		1
5122	Optically-controlled resistive switching effects of CdS nanowire memtransistor*. Chinese Physics B, 2021, 30, 116105.	0.7	3
5123	Memristor crossbar architectures for implementing deep neural networks. Complex & Intelligent Systems, 2022, 8, 787-802.	4.0	26
5124	A simple chaotic circuit with magnetic flux-controlled memristor. European Physical Journal: Special Topics, 2021, 230, 1723-1736.	1.2	20
5125	Synchronization of Coupled Memristor Neural Networks with Time Delay: Positive Effects of Stochastic Delayed Impulses. Neural Processing Letters, 2021, 53, 4349-4364.	2.0	7
5126	Impulsive effects on weak projective synchronization of parameter mismatched stochastic memristive neural networks. Journal of the Franklin Institute, 2021, 358, 5909-5930.	1.9	7
5127	Universal Cellular Computing on the Edge of Chaos. , 2021, , .		0
5128	Modeling electrical conduction in resistive-switching memory through machine learning. AIP Advances, 2021, 11, .	0.6	2
5129	Finite-time and fixed-time synchronization for a class of memristor-based competitive neural networks with different time scales. Chaos, Solitons and Fractals, 2021, 148, 111033.	2.5	25
5130	Effects of Ar+ irradiation on the performance of memristor based on single-crystalline LiNbO3 thin film. Journal of Materials Science: Materials in Electronics, 2021, 32, 20817-20826.	1.1	7
5131	Frequency Response of Metal-Oxide Memristors. IEEE Transactions on Electron Devices, 2021, 68, 3636-3642.	1.6	5
5132	Memristor Based on Inorganic and Organic Two-Dimensional Materials: Mechanisms, Performance, and Synaptic Applications. ACS Applied Materials & Interfaces, 2021, 13, 32606-32623.	4.0	86
5133	Lightweight multi-dimensional memristive CapsNet. , 2021, , .		1
5134	Hardwareâ€Friendly Stochastic and Adaptive Learning in Memristor Convolutional Neural Networks. Advanced Intelligent Systems, 2021, 3, 2100041.	3.3	16
5135	A Review of Self-Seeded Germanium Nanowires: Synthesis, Growth Mechanisms and Potential Applications. Nanomaterials, 2021, 11, 2002.	1.9	6

#	Article	IF	Citations
5136	Electrochemistry of the Silicon Oxide Dielectric Layer: Principles, Electrochemical Reactions, and Perspectives. Chemistry - an Asian Journal, 2021, 16, 3014-3025.	1.7	2
5137	A S-type bistable locally active memristor model and its analog implementation in an oscillator circuit. Nonlinear Dynamics, 2021, 106, 1041-1058.	2.7	48
5138	Up-conversion hybrid nanomaterials for light- and heat-driven applications. Progress in Materials Science, 2021, 121, 100838.	16.0	34
5139	Fully Analog Memristive Circuits for Optimization Tasks: A Comparison. , 2021, , 193-213.		1
5140	Embedding any desired number of coexisting attractors in memristive system*. Chinese Physics B, 2021, 30, 120511.	0.7	17
5141	A Dynamic System Approach to Spiking Memristor Network Investigation., 2021,,.		1
5142	Realization of a non-markov chain in a single 2D mineral RRAM. Science Bulletin, 2021, 66, 1634-1640.	4.3	15
5143	Full CMOS Implementation of Bidirectional Associative Memory Neural Network with Analog Memristive Synapse., 2021,,.		6
5144	A Novel Architecture for Memristor-Based Logic., 2021,,.		4
5145	Stability analysis for quaternion-valued inertial memristor-based neural networks with time delays. Neurocomputing, 2021, 448, 67-81.	3.5	16
5146	High Frequency Electronically Tunable Floating Memristor Emulators employing VDGA and Grounded Capacitor. Wireless Personal Communications, 2021, 121, 3185-3211.	1.8	9
5147	Design and comparative analysis of memristor-based transistor-less combinational logic circuits. International Journal of Electronics, 2022, 109, 1291-1306.	0.9	8
5148	Dual-Mode Memristor Synaptic Circuit Design and Application in Image Processing. Frontiers in Physics, 2021, 9, .	1.0	3
5149	Ameliorate Performance of Memristor-Based ANNs in Edge Computing. IEEE Transactions on Computers, 2021, 70, 1299-1310.	2.4	11
5150	Transient transition behaviors of fractional-order simplest chaotic circuit with bi-stable locally-active memristor and its ARM-based implementation. Chinese Physics B, 2021, 30, 120515.	0.7	4
5151	Memristive Devices and Circuits. , 2022, , 1-17.		0
5152	Active emulation circuits of fractional-order memristive elements and its applications. AEU - International Journal of Electronics and Communications, 2021, 138, 153855.	1.7	5
5153	Neuromorphic Character Recognition using The Single Memristor Crossbar Array., 2021, , .		O

#	Article	IF	CITATIONS
5154	A cryogenic memory array based on superconducting memristors. Applied Physics Letters, 2021, 119, .	1.5	20
5155	Role of magnetic skyrmions for the solution of the shortest path problem. Journal of Magnetism and Magnetic Materials, 2021, 532, 167977.	1.0	6
5156	SecureMem: efficient flexible Pt/GO/Cu memristor for true random number generation. Flexible and Printed Electronics, 2021, 6, 035004.	1.5	7
5157	Hidden coexisting firings in fractional-order hyperchaotic memristor-coupled HR neural network with two heterogeneous neurons and its applications. Chaos, 2021, 31, 083107.	1.0	16
5158	Design and multistability analysis of five-value memristor-based chaotic system with hidden attractors*. Chinese Physics B, 2021, 30, 100506.	0.7	9
5159	Electronically controllable neuristor based logic gates and their applications. AEU - International Journal of Electronics and Communications, 2021, 138, 153834.	1.7	3
5160	Deterministic mechanisms of spiking in diffusive memristors. Chaos, Solitons and Fractals, 2021, 149, 110997.	2.5	10
5161	pth moment exponential stability of memristor Cohen–Grossberg BAM neural networks with time-varying delays and reaction–diffusion. Chinese Journal of Physics, 2021, 74, 184-194.	2.0	5
5162	Revisiting the memristor concept within basic circuit theory. International Journal of Circuit Theory and Applications, 2021, 49, 3488-3506.	1.3	5
5163	Simple Grounded Meminductor Emulator using Transconductance Amplifier. , 2021, , .		1
5164	An Error Correction Approach to Memristors PUF-based Key Encapsulation. , 2021, , .		5
5165	Inâ€Memory Stateful Logic Computing Using Memristors: Gate, Calculation, and Application. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100208.	1.2	25
5167	Enhancing the Switching Performance of CH ₃ NH ₃ Pbl ₃ Memristors by the Control of Size and Characterization Parameters. Advanced Electronic Materials, 2021, 7, 2100472.	2.6	14
5168	Modeling of emergent memory and voltage spiking in ionic transport through angstrom-scale slits. Science, 2021, 373, 687-691.	6.0	89
5169	On Memristor Modeling for a VGA Application. , 2021, , .		0
5170	Chua Corsage memristor based neuron models. Electronics Letters, 2021, 57, 903-905.	0.5	7
5171	Emerging Artificial Neuron Devices for Probabilistic Computing. Frontiers in Neuroscience, 2021, 15, 717947.	1.4	9
5172	New electronically adjustable memelement emulator for realizing the behaviour of fully-floating meminductor and memristor. Microelectronics Journal, 2021, 114, 105126.	1.1	22

#	Article	IF	CITATIONS
5173	Memristor-based circuit implementation of Competitive Neural Network based on online unsupervised Hebbian learning rule for pattern recognition. Neural Computing and Applications, 2022, 34, 319-331.	3.2	14
5174	Highly-stable memristive devices with synaptic characteristics based on hydrothermally synthesized MnO2 active layers. Journal of Alloys and Compounds, 2021, 872, 159653.	2.8	17
5175	Impedance Spectroscopy Dynamics of Biological Neural Elements: From Memristors to Neurons and Synapses. Journal of Physical Chemistry B, 2021, 125, 9934-9949.	1.2	32
5176	Application of a Memristive Neural Network for Classification of COVID-19 Patients. International Journal of Circuits, Systems and Signal Processing, 2021, 15, 1282-1291.	0.2	5
5177	Stochastic analysis of the electromagnetic induction effect on a neuron's action potential dynamics. Nonlinear Dynamics, 2021, 105, 3585-3602.	2.7	9
5178	Analog Nanoscale Electro-Optical Synapses for Neuromorphic Computing Applications. ACS Nano, 2021, 15, 14776-14785.	7.3	35
5179	Event-based passification of delayed memristive neural networks. Information Sciences, 2021, 569, 344-357.	4.0	3
5180	A Novel Low-Power Nonvolatile 8T1M SRAM Cell. Arabian Journal for Science and Engineering, 2022, 47, 3163-3179.	1.7	8
5181	A memristive RLC oscillator dynamics applied to image encryption. Journal of Information Security and Applications, 2021, 61, 102944.	1.8	22
5182	Exponential quasi-synchronization of coupled delayed memristive neural networks via intermittent event-triggered control. Neural Networks, 2021, 141, 98-106.	3.3	32
5183	A reconfigurable bidirectional associative memory network with memristor bridge. Neurocomputing, 2021, 454, 382-391.	3.5	14
5184	Floating and Grounded Meminductor Using VDTA and Neuromorphic Circuit Based On Amoeba Behaviour. Transactions on Electrical and Electronic Materials, 0, , 1.	1.0	2
5185	Firing multistability, symmetry, bubbles of a Shinriki oscillator with mem-elements. Chinese Journal of Physics, 2021, 74, 157-174.	2.0	9
5186	Inkjet-printed bipolar resistive switching device based on Ag/ZnO/Au structure. Applied Physics Letters, 2021, 119, .	1.5	9
5187	Characterization of dynamics and information processing of integrate-and-fire neuron models. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 445601.	0.7	7
5188	Development of Compute-in-Memory Memristive Crossbar Architecture with Composite Memory Cells. , 0, , .		0
5189	Nonlinearity in Memristors for Neuromorphic Dynamic Systems. Small Science, 2022, 2, 2100049.	5.8	46
5190	Realization of floating triple crossing memristor emulator with dual inflection point static characteristics. Analog Integrated Circuits and Signal Processing, 2022, 110, 63-80.	0.9	2

#	Article	IF	CITATIONS
5191	Stochastic model of memristor based on the length of conductive region. Chaos, Solitons and Fractals, 2021, 150, 111131.	2.5	16
5192	Bifurcation and bursting oscillations in 2D non-autonomous discrete memristor-based hyperchaotic map. Chaos, Solitons and Fractals, 2021, 150, 111064.	2.5	32
5193	Bipolar resistive switching and memristive properties of sprayed deposited Bi2WO6 thin films. Materials Today Communications, 2021, 28, 102621.	0.9	10
5194	Pristine leaf based electrochemical resistive switching device. Applied Materials Today, 2021, 24, 101077.	2.3	10
5195	Analysis of Wien Bridge Oscillator Designed Using BJT and Memristor with Different Window Functions. European Journal of Science and Technology, 0, , .	0.5	1
5196	A novel current-controlled memristor-based chaotic circuit. The Integration VLSI Journal, 2021, 80, 20-28.	1.3	10
5197	Neuromorphic extreme learning machines with bimodal memristive synapses. Neurocomputing, 2021, 453, 38-49.	3.5	25
5198	Memristive Hodgkin-Huxley Spiking Neuron Model for Reproducing Neuron Behaviors. Frontiers in Neuroscience, 2021, 15, 730566.	1.4	10
5199	A Quantized Convolutional Neural Network Implemented With Memristor for Image Denoising and Recognition. Frontiers in Neuroscience, 2021, 15, 717222.	1.4	5
5200	Abundant Firing Patterns in a Memristive Morris–Lecar Neuron Model. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2150170.	0.7	7
5201	Projective synchronization of memristive multidirectional associative memory neural networks via self-triggered impulsive control and its application to image protection. Chaos, Solitons and Fractals, 2021, 150, 111110.	2.5	17
5202	E-Synapse Based on Lead-Free Organic Halide Perovskite (CH3NH3)3Sb2Cl9 for Neuromorphic Computing. IEEE Transactions on Electron Devices, 2021, 68, 4425-4430.	1.6	4
5204	Survey on the benefits of using memristors for PUFs. International Journal of Parallel, Emergent and Distributed Systems, 2022, 37, 40-67.	0.7	1
5205	A Neural Network with HfO2 Memristors. Proceedings of the Technical University of Sofia, 2021, 71, .	0.1	1
5206	Complex dynamic behaviors in hyperbolic-type memristor-based cellular neural network. Chinese Physics B, 2022, 31, 020502.	0.7	5
5207	Anti-synchronization of delayed memristive neural networks with leakage term and reaction–diffusion terms. Knowledge-Based Systems, 2021, 233, 107539.	4.0	26
5208	Emerging of two-dimensional materials in novel memristor. Frontiers of Physics, 2022, 17, 1.	2.4	37
5209	Speeding-up neuromorphic computation for neural networks: Structure optimization approach. The Integration VLSI Journal, 2022, 82, 104-114.	1.3	1

#	Article	IF	Citations
5210	A novel memristor-based chaotic system with line equilibria and its complex dynamics. Modern Physics Letters B, 2021, 35, .	1.0	4
5211	Review on chaotic dynamics of memristive neuron and neural network. Nonlinear Dynamics, 2021, 106, 959-973.	2.7	125
5212	Multi-mode function synchronization of memristive neural networks with mixed delays and parameters mismatch via event-triggered control. Information Sciences, 2021, 572, 147-166.	4.0	9
5213	Hidden Attractor and Multistability in a Novel Memristor-Based System Without Symmetry. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2150168.	0.7	12
5214	A system designÂperspective on neuromorphic computer processors. Neuromorphic Computing and Engineering, 2021, 1, 022001.	2.8	8
5215	A review on the design of ternary logic circuits*. Chinese Physics B, 2021, 30, 128402.	0.7	12
5216	Conductive Path Mechanism for Bipolar Resistive Switching Characteristics in Leadâ€Free Perovskite CsSnBr 3 â€Based Nonvolatile Memories. Physica Status Solidi (A) Applications and Materials Science, 0, , 2100501.	0.8	4
5217	Recent advances on crystalline materials-based flexible memristors for data storage and neuromorphic applications. Science China Materials, 2022, 65, 2110-2127.	3.5	45
5218	A mixed-kernel, variable-dimension memristive CNN for electronic nose recognition. Neurocomputing, 2021, 461, 129-136.	3.5	16
5219	First principle investigation of polaronic resistive switching behavior in titania based memristors with different charge states. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 134, 114857.	1.3	3
5220	Low-Cost, Printed Memristor Using Indigo and a Dispersion of Colloidal Graphite Deposited by Spray Coating. IEEE Electron Device Letters, 2021, 42, 1468-1471.	2.2	5
5221	New results on synchronization for second-order fuzzy memristive neural networks with time-varying and infinite distributed delays. Knowledge-Based Systems, 2021, 230, 107397.	4.0	20
5222	Finite-time stabilization of memristor-based inertial neural networks with time-varying delays combined with interval matrix method. Knowledge-Based Systems, 2021, 230, 107395.	4.0	22
5223	Electronically controllable memcapacitor emulator employing VDCCs. AEU - International Journal of Electronics and Communications, 2021, 140, 153932.	1.7	8
5224	Mathematical analysis and emulation of the fractional-order cubic flux-controlled memristor. AEJ - Alexandria Engineering Journal, 2021, 60, 4315-4324.	3.4	12
5225	Nonlinear analysis and minimum L2-norm control in memcapacitor-based hyperchaotic system via online particle swarm optimization. Chaos, Solitons and Fractals, 2021, 151, 111214.	2.5	9
5226	Harmonic Analysis of the Nonlinear Response of Graphene Oxide-Based Memristors. IEEE Transactions on Electron Devices, 2021, 68, 4938-4943.	1.6	0
5227	Polymer Thin Film Memtransistors Based on Ion-Carrier Exchange Heterojunction. IEEE Electron Device Letters, 2021, 42, 1528-1531.	2.2	5

#	Article	IF	CITATIONS
5228	Forgetting memristors and memristor bridge synapses with long- and short-term memories. Neurocomputing, 2021, 456, 126-135.	3.5	21
5229	Emotion model of associative memory possessing variable learning rates with time delay. Neurocomputing, 2021, 460, 117-125.	3.5	30
5230	A robust architecture of physical unclonable function based on Memristor crossbar array. Microelectronics Journal, 2021, 116, 105238.	1.1	8
5231	A memristor-based circuit design of pavlov associative memory with secondary conditional reflex and its application. Neurocomputing, 2021, 463, 341-354.	3.5	14
5232	Using volatile/non-volatile memristor for emulating the short-and long-term adaptation behavior of the biological neurons. Neurocomputing, 2021, 465, 157-166.	3.5	15
5233	Recent progress on two-dimensional neuromorphic devices and artificial neural network. Current Applied Physics, 2021, 31, 182-198.	1.1	26
5234	Finite-time passivity and synchronization of coupled complex-valued memristive neural networks. Information Sciences, 2021, 580, 775-800.	4.0	33
5235	Planar analog memimpedance behavior in reduced GO-Based Metal-Semiconductor-Metal. Materials and Design, 2021, 210, 110077.	3.3	10
5236	Dynamical robustness and firing modes in multilayer memristive neural networks of nonidentical neurons. Applied Mathematics and Computation, 2021, 409, 126384.	1.4	14
5237	A novel chaotic circuit with coexistence of multiple attractors and state transition based on two memristors. Chaos, Solitons and Fractals, 2021, 152, 111363.	2.5	34
5238	Dynamical and static multisynchronization analysis for coupled multistable memristive neural networks with hybrid control. Neural Networks, 2021, 143, 515-524.	3.3	14
5239	Multiple coexisting analysis of a fractional-order coupled memristive system and its application in image encryption. Chaos, Solitons and Fractals, 2021, 152, 111334.	2.5	12
5240	A simple fractional-order chaotic system based on memristor and memcapacitor and its synchronization application. Chaos, Solitons and Fractals, 2021, 152, 111306.	2.5	44
5241	Dynamics analysis, hardware implementation and engineering applications of novel multi-style attractors in a neural network under electromagnetic radiation. Chaos, Solitons and Fractals, 2021, 152, 111350.	2.5	49
5242	Switching dynamics of a non-autonomous FitzHugh-Nagumo circuit with piecewise-linear flux-controlled memristor. Chaos, Solitons and Fractals, 2021, 152, 111369.	2.5	21
5243	Pinning multisynchronization of delayed fractional-order memristor-based neural networks with nonlinear coupling and almost-periodic perturbations. Neural Networks, 2021, 144, 372-383.	3.3	8
5244	Monolithically Integrating Non-Volatile Main Memory over the Last-Level Cache. Transactions on Architecture and Code Optimization, 2021, 18, 1-26.	1.6	3
5245	All inorganic and transparent ITO/boehmite/ITO structure by one-step synthesis method for flexible memristor. Solid-State Electronics, 2021, 186, 108180.	0.8	4

#	Article	IF	CITATIONS
5246	Modeling of memristor-based Hindmarsh-Rose neuron and its dynamical analyses using energy method. Applied Mathematical Modelling, 2022, 101, 503-516.	2.2	55
5247	Optical and oxide modification of CsFAMAPbIBr memristor achieving low power consumption. Journal of Alloys and Compounds, 2022, 891, 162096.	2.8	8
5248	Demonstration of synaptic and resistive switching characteristics in W/TiO2/HfO2/TaN memristor crossbar array for bioinspired neuromorphic computing. Journal of Materials Science and Technology, 2022, 96, 94-102.	5.6	56
5249	Silent-PIM: Realizing the Processing-in-Memory Computing With Standard Memory Requests. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 251-262.	4.0	11
5250	MemCAM: A Hybrid Memristor-CMOS CAM Cell for On-Chip Caches. IEEE Access, 2021, 9, 21296-21305.	2.6	2
5251	Perceptron Circuit Design of Second Order Damped System Based on Memristor. Communications in Computer and Information Science, 2021, , 347-358.	0.4	0
5252	Memristor Fabrication Through Printing Technologies: A Review. IEEE Access, 2021, 9, 95970-95985.	2.6	10
5253	Event-Based Extended Dissipative State Estimation for Memristor-Based Markovian Neural Networks With Hybrid Time-Varying Delays. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 4520-4533.	3.5	15
5254	Improved Results on Fixed-/Preassigned-Time Synchronization for Memristive Complex-Valued Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 5542-5556.	7.2	36
5255	A Novel Modeling Method of Floating Memory Elements and its Practical Implementation. Wuli Xuebao/Acta Physica Sinica, 2021, .	0.2	0
5256	Fuzzy memristive networks. , 2021, , 461-483.		2
5257	A 3-D Crossbar Architecture for Both Pipeline and Parallel Computations. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 4456-4469.	3.5	1
5258	VETAM-M: A General Model for Voltage-Controlled Memcapacitive-Coupled Memristors. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1717-1721.	2.2	3
5259	Resistorless Memristor Emulator Using CFTA and Its Experimental Verification. IEEE Access, 2021, 9, 64065-64075.	2.6	31
5260	Review on resistive switching mechanisms of bio-organic thin film for non-volatile memory application. Nanotechnology Reviews, 2021, 10, 680-709.	2.6	39
5261	Effects of electrode materials and bias polarities on breakdown behaviors of oxide dielectrics and their mechanisms. Wuli Xuebao/Acta Physica Sinica, 2021, 70, 087302.	0.2	0
5262	Finite-time and fixed-time stabilization of inertial memristive Cohen-Grossberg neural networks via non-reduced order method. AIMS Mathematics, 2021, 6, 6915-6932.	0.7	8
5263	Exponential Stabilization of Fuzzy Memristive Neural Networks With Multiple Time Delays Via Intermittent Control. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3092-3101.	5.9	16

#	Article	IF	CITATIONS
5264	Synchronization of Stochastic Memristive Neural Networks with Retarded and Advanced Argument. Journal of Intelligent Learning Systems and Applications, 2021, 13, 1-14.	0.4	1
5265	Outlier-resistant <i>l</i> ₂ - <i>l</i> _{â^ž} state estimation for discrete-time memristive neural networks with time-delays. Systems Science and Control Engineering, 2021, 9, 88-97.	1.8	7
5266	Nanoscale Memristor., 2021,, 444-444.		0
5267	Synchronization for a class of complex-valued memristor-based competitive neural networks(CMCNNs) with different time scales. Electronic Research Archive, 2021, 29, 3323-3340.	0.4	2
5268	Memristive Bio-Impedance Modeling of Fruits and Vegetables. IEEE Access, 2021, 9, 21498-21506.	2.6	2
5269	Recent Advances in Synthesis and Memory Computing of Large-area α-MoO3. Wuli Xuebao/Acta Physica Sinica, 2021, .	0.2	1
5270	Electrochemical reaction in memristor devices in a set state. AIP Advances, 2021, 11, 015302.	0.6	1
5271	Memristor-Based Electronically Tunable Unity-Gain Sallen–Key Filters. Lecture Notes in Mechanical Engineering, 2021, , 1141-1152.	0.3	1
5272	TiO2 in memristors and resistive random access memory devices. , 2021, , 507-526.		2
5273	Compositional tuning of negative differential resistance in a bulk silver iodide memristor. New Journal of Chemistry, 2021, 45, 1667-1676.	1.4	10
5274	Memristive effect in BaTiO3/La0.67Ca0.33MnO3 bilayer. AIP Conference Proceedings, 2021, , .	0.3	0
5275	A Representation of System Solutions for Global Exponential Stabilization of Memristor-Based Neural Networks With Unbounded Time-Varying Delays. IEEE Access, 2021, 9, 118107-118112.	2.6	7
5276	Design guidelines for physical implementation of fractional-order integrators and its application in memristive systems., 2021,, 225-248.		1
5277	Bipolar resistive switching in biomaterials: case studies of DNA and melanin-based bio-memristive devices., 2021,, 299-323.		1
5278	The Fractional Order Generalization of HP Memristor Based Chaotic Circuit with Dimensional Consistency. Cogent Engineering, 2021, 8, 1891731.	1.1	2
5279	Lagrange Stability of Fuzzy Memristive Neural Networks on Time Scales With Discrete Time Varying and Infinite Distributed Delays. IEEE Transactions on Fuzzy Systems, 2022, 30, 3138-3151.	6.5	11
5280	Slow-Scale Bifurcation in Three-Level T-Type Inverter With Passive Memristive Load. IEEE Transactions on Industrial Electronics, 2022, 69, 7963-7973.	5.2	2
5281	A New Electromechanical Analogy Approach Based on Electrostatic Coupling for Vertical Dynamic Analysis of Planar Vehicle Models. IEEE Access, 2021, 9, 119492-119502.	2.6	8

#	Article	IF	CITATIONS
5282	In situ learning using intrinsic memristor variability via Markov chain Monte Carlo sampling. Nature Electronics, 2021, 4, 151-161.	13.1	93
5283	Multiply accumulate operations in memristor crossbar arrays for analog computing. Journal of Semiconductors, 2021, 42, 013104.	2.0	32
5288	Multi-core and Many-core Processor Architectures. , 2011, , 9-43.		17
5289	Nanoelectronics and Hardware Security. Advances in Information Security, 2014, , 105-123.	0.9	4
5290	Emerging Memory Technology Opportunities and Challenges. Analog Circuits and Signal Processing Series, 2014, , 83-89.	0.3	1
5291	Memristor-Based Resistive Computing. , 2014, , 301-325.		2
5292	Fourth Fundamental Circuit Element: SPICE Modeling and Simulation., 2014,, 105-162.		15
5293	Application of the Volterra Series Paradigm to Memristive Systems. , 2014, , 163-191.		13
5294	A Bernoulli Cell-Based Investigation of the Non-Linear Dynamics in Log-Domain Structures. , 2000, , 21-40.		4
5295	Oxide Based Memristive Nanodevices. , 2014, , 219-256.		1
5297	Nonvolatile State Identification and NVM SPICE. , 2014, , 45-83.		5
5298	Kinetic Monte Carlo Analysis of the Operation and Reliability of Oxide Based RRAMs. Lecture Notes in Computer Science, 2020, , 429-437.	1.0	1
5299	The Cause of Complexity in Nature: An Analytical and Computational Approach. Emergence, Complexity and Computation, 2014, , 19-49.	0.2	1
5300	Convergence Platforms: Foundational Science and Technology Tools. Science Policy Reports, 2013, , 1-52.	0.1	3
5301	The Fourth Element., 2014,, 1-13.		6
5302	Cellular Nonlinear Networks with Memristor Synapses. , 2014, , 267-291.		7
5303	Memristive in Situ Computing. , 2014, , 413-428.		2
5304	Aftermath of Finding the Memristor. , 2014, , 15-19.		2

#	Article	IF	CITATIONS
5306	Modeling Memristor-Based Circuit Networks on Crossbar Architectures. , 2014, , 505-535.		3
5307	Computing Shortest Paths in 2D and 3D Memristive Networks. , 2014, , 537-552.		13
5308	Computing Image and Motion with 3-D Memristive Grids. , 2014, , 553-583.		6
5309	Solid-State Memcapacitors and Their Applications. , 2014, , 585-601.		10
5310	Resistance Switching Memories Are Memristors. , 2014, , 21-51.		7
5311	Memristor Cellular Automata and Memristor Discrete-Time Cellular Neural Networks. , 2014, , 649-713.		20
5312	The Detectors Used in the First Radios Were Memristors. , 2014, , 53-66.		4
5313	Memristor, Hodgkin-Huxley, and Edge of Chaos. , 2014, , 67-94.		9
5314	Why Are Memristor and Memistor Different Devices?. , 2014, , 95-112.		6
5316	Memristors and Memristive Devices for Neuromorphic Computing., 2014, , 129-149.		8
5318	HybridÂDynamicalÂSystems for MemristorÂModelling. Lecture Notes in Electrical Engineering, 2015, , 87-101.	0.3	2
5319	Memristors as Synapses in Artificial Neural Networks: Biomimicry Beyond Weight Change. Advances in Information Security, 2014, , 135-150.	0.9	3
5320	Evolving Unipolar Memristor Spiking Neural Networks. Lecture Notes in Computer Science, 2015, , 258-272.	1.0	1
5321	Memristor Fundamentals. Emergence, Complexity and Computation, 2016, , 1-8.	0.2	3
5322	Multistability of Memristive Neural Networks with Non-monotonic Piecewise Linear Activation Functions. Lecture Notes in Computer Science, 2015, , 182-191.	1.0	3
5323	Global Exponential Anti-synchronization of Coupled Memristive Chaotic Neural Networks with Time-Varying Delays. Lecture Notes in Computer Science, 2015, , 192-201.	1.0	2
5324	Physarum-Based Memristors for Computer Music. Emergence, Complexity and Computation, 2016, , 755-775.	0.2	5
5325	BioComputer Music: Generating Musical Responses with Physarum polycephalum-Based Memristors. Lecture Notes in Computer Science, 2016, , 405-419.	1.0	5

#	Article	IF	CITATIONS
5326	On Unconventional Computing for Sound and Music., 2017,, 23-61.		1
5327	Dynamics of Biomimetic Electronic Artificial Neural Networks. Lecture Notes in Networks and Systems, 2017, , 195-207.	0.5	1
5328	A Programmable Memristor Potentiometer and Its Application in the Filter Circuit. Lecture Notes in Computer Science, 2017, , 326-335.	1.0	4
5329	Logic with Unipolar Memristors – Circuits and Design Methodology. IFIP Advances in Information and Communication Technology, 2017, , 24-40.	0.5	4
5330	Computers from Plants We Never Made: Speculations. Emergence, Complexity and Computation, 2018, , 357-387.	0.2	13
5331	Waveform Classification by Memristive Reservoir Computing. Lecture Notes in Computer Science, 2017, ,457-465.	1.0	8
5332	Existence and Control of Hidden Oscillations in a Memristive Autonomous Duffing Oscillator. Studies in Systems, Decision and Control, 2018, , 327-344.	0.8	5
5333	4-D Memristive Chaotic System with Different Families of Hidden Attractors. Studies in Systems, Decision and Control, 2018, , 403-432.	0.8	2
5334	Associative Enhancement and Its Application in Memristor Based Neuromorphic Devices. , 2019, , 555-570.		1
5335	Spiking Neural Computing inÂMemristive Neuromorphic Platforms. , 2019, , 691-728.		3
5336	Modeling Memristor–Based Circuit Networks on Crossbar Architectures. , 2019, , 973-1004.		3
5337	Computing Image and Motion with 3-D Memristive Grids. , 2019, , 1177-1210.		1
5338	Memristor Cellular Automata and ÂMemristor Discrete-Time Cellular Neural Networks. , 2019, , 1289-1361.		17
5339	Resistance Switching Memories areÂMemristors. , 2019, , 197-230.		20
5340	Memristor CNNs with Hysteresis. Studies in Computational Intelligence, 2019, , 383-394.	0.7	4
5341	Proposal for Memristors in Signal Processing. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 11-13.	0.2	33
5342	Identification of Memristor-Based Chaotic Systems Using Support Vector Machine Regression. Communications in Computer and Information Science, 2011, , 365-371.	0.4	2
5343	Life and Brain in the Universe of Cellular Automata. SpringerBriefs in Complexity, 2012, , 87-103.	0.1	1

#	Article	IF	Citations
5344	Comparison of Ant-Inspired Gatherer Allocation Approaches Using Memristor-Based Environmental Models. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 73-84.	0.2	1
5345	Memristor-Based Phase-Lead Controller Circuit Design. Advances in Intelligent Systems and Computing, 2013, , 309-318.	0.5	2
5346	The Circuit Realization of a Neuromorphic Computing System with Memristor-Based Synapse Design. Lecture Notes in Computer Science, 2012, , 357-365.	1.0	20
5347	DAEs in Circuit Modelling: A Survey. , 2013, , 97-136.		6
5348	UAV Horizon Tracking Using Memristors and Cellular Automata Visual Processing. Lecture Notes in Computer Science, 2014, , 64-75.	1.0	4
5349	Watermarking-Based Perceptual Hashing Search Over Encrypted Speech. Lecture Notes in Computer Science, 2014, , 423-434.	1.0	8
5351	Memristive Computational Amplifiers and Equation Solvers. Lecture Notes in Electrical Engineering, 2020, , 74-82.	0.3	1
5352	Synchronization of coupled memristive inertial delayed neural networks with impulse and intermittent control. Neural Computing and Applications, 2021, 33, 7953-7964.	3.2	20
5353	Hyperchaotic memristive system with hidden attractors and its adaptive control scheme. Nonlinear Dynamics, 2017, 90, 1681-1694.	2.7	24
5354	Finite-time Synchronization of a Class of Coupled Memristor-based Recurrent Neural Networks: Static State Control and Dynamic Control Approach. International Journal of Control, Automation and Systems, 2021, 19, 426-438.	1.6	6
5355	THE NETWORK CONCEPT AS A UNIFYING PRINCIPLE IN ENGINEERING AND THE PHYSICAL SCIENCES. , 1977, , 41-111.		12
5356	A discrete memristor model and its application in Hénon map. Chaos, Solitons and Fractals, 2020, 137, 109873.	2.5	119
5357	Almost periodic dynamics of memristive inertial neural networks with mixed delays. Information Sciences, 2020, 536, 332-350.	4.0	14
5358	A new emotion model of associative memory neural network based on memristor. Neurocomputing, 2020, 410, 83-92.	3.5	27
5359	Observation of conducting filament growth in nanoscale resistive memories. , 0, .		1
5360	Found: the missing circuit element. Nature, 0, , .	13.7	3
5361	Analogue signal and image processing with large memristor crossbars. Nature Electronics, 2018, 1, 52-59.	13.1	879
5362	CHAPTER 1. Organic Electronic Memory Devices. RSC Polymer Chemistry Series, 2015, , 1-53.	0.1	5

#	Article	IF	CITATIONS
5363	Current status and prospects of memristors based on novel 2D materials. Materials Horizons, 2020, 7, 1495-1518.	6.4	101
5364	Algebraic criteria for reachable set estimation of delayed memristive neural networks. IET Control Theory and Applications, 2019, 13, 1736-1743.	1.2	23
5365	Nonâ€fragile setâ€membership estimation for sensorâ€saturated memristive neural networks via weighted tryâ€onceâ€discard protocol. IET Control Theory and Applications, 2020, 14, 1671-1680.	1.2	15
5366	Memristor dynamics involved in cells communication for a 2D nonâ€linear network. IET Signal Processing, 2020, 14, 427-434.	0.9	8
5367	Resistive switching in FTO/CuO–Cu ₂ O/Au memory devices. Micro and Nano Letters, 2020, 15, 853-857.	0.6	7
5368	Simulation and experimental implementations of memcapacitor based multi-stable chaotic oscillator and its dynamical analysis. Physica Scripta, 2021, 96, 015209.	1.2	8
5369	Memcapacitor model and its application in a chaotic oscillator. Chinese Physics B, 2016, 25, 010503.	0.7	27
5370	An improved memristor model for brain-inspired computing. Chinese Physics B, 2017, 26, 118502.	0.7	6
5371	Review of resistive switching mechanisms for memristive neuromorphic devices*. Chinese Physics B, 2020, 29, 097305.	0.7	18
5372	Dynamics of the two-SBT-memristor-based chaotic circuit. Chinese Physics B, 2020, 29, 110505.	0.7	9
5373	Memristor-based hyper-chaotic circuit for image encryption*. Chinese Physics B, 2020, 29, 110504.	0.7	34
5374	Memristor bridge circuit for neural synaptic weighting. , 2012, , .		9
5375	Resistive switching and synaptic behavior in zirconium doped thin film metal-oxide-metal devices. , 2020, , .		2
5376	Thin ZnO layer for RRAM Applications. , 2020, , .		2
5377	Low Power Memristor-Based Shift Register Design. , 2020, , .		3
5378	Exploiting memristance for low-energy neuromorphic computing hardware. , 2011, , .		8
5379	Constructing fast and energy efficient 1TnR based ReRAM crossbar memory. , 2017, , .		6
5380	A New Memristor Based Hyperchaotic System. , 2012, , .		2

#	Article	IF	Citations
5381	X-MAGIC: Enhancing PIM Using Input Overwriting Capabilities. , 2020, , .		4
5382	Simulating Hardware Neural Networks with Organic Memristors and Organic Field Effect Transistors., 2010,, 477-484.		7
5383	Nonlinear Dynamic Approach in Analyzing the Instability of Memristor Parameters. Russian Microelectronics, 2020, 49, 554-561.	0.1	1
5384	A Forgetting Memristive Spiking Neural Network for Pavlov Experiment. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1850080.	0.7	8
5385	The Applications of NVM Technology in Hardware Security., 2016,,.		6
5386	Approximate Memristive In-Memory Hamming Distance Circuit. ACM Journal on Emerging Technologies in Computing Systems, 2020, 16, 1-14.	1.8	12
5387	Hardware Security For and Beyond CMOS Technology. , 2020, , .		14
5388	Device-aware Circuit Design for Robust Memristive Neuromorphic Systems with STDP-based Learning. ACM Journal on Emerging Technologies in Computing Systems, 2020, 16, 1-25.	1.8	4
5389	Active Memristive Layer Deposition via Mn(II)-Assisted Anodic Oxidation of Titanium. ECS Journal of Solid State Science and Technology, 2020, 9, 054004.	0.9	6
5390	Experimental Verification of Current Conduction Mechanism for a Lithium Niobate Based Memristor. ECS Journal of Solid State Science and Technology, 2020, 9, 103003.	0.9	6
5391	Dynamic Analysis and Circuit Realization of a Novel No-Equilibrium 5D Memristive Hyperchaotic System with Hidden Extreme Multistability. Complexity, 2020, 2020, 1-16.	0.9	16
5392	Configurations of memristor-based APUF for improved performance. Bulletin of Electrical Engineering and Informatics, 2019, 8, 74-82.	0.6	3
5393	Ring oscillator physically unclonable function using sequential ring oscillator pairs for more challenge-response-pairs. Indonesian Journal of Electrical Engineering and Computer Science, 2019, 13, 892.	0.7	3
5394	The Synchronization of Identical Memristors Systems Via Lyapunov Direct Method. Applied and Computational Mathematics, 2013, 2, 130.	0.2	6
5395	Memristor, a Nano-Scaled Element for the Computer Memory: A Mini-Review with Some New Results for an ac-Driven Memristor. Journal of Photonic Materials and Technology, 2015, 1, 27.	0.7	2
5396	DESIGN AND CIRCUIT IMPLEMENTATION FOR A NOVEL CHARGE-CONTROLLED CHAOTIC MEMRISTOR SYSTEM. Journal of Applied Analysis and Computation, 2015, 5, 251-261.	0.2	4
5397	Memristor-Based Security., 2017,, 55-72.		1
5398	The Concept of Unidirectionally Coupled Nonlinear Circuits via a Memristor. Acta Physica Polonica A, 2012, 121, 268-270.	0.2	3

#	Article	IF	CITATIONS
5399	Implementation of Microcontroller-Based Memristive Chaotic Circuit. Acta Physica Polonica A, 2017, 132, 1058-1061.	0.2	9
5400	Utilization of Euler-Lagrange Equations in Circuits with Memory Elements. Radioengineering, 2016, 25, 783-789.	0.3	4
5401	Electrically writable silicon nanophotonic resistive memory with inherent stochasticity. Optics Letters, 2019, 44, 4020.	1.7	18
5402	Unipolar memristive Switching in Bulk Negative Temperature Coefficient Thermosensitive Ceramics. PLoS ONE, 2013, 8, e79832.	1.1	6
5403	AHaH Computing–From Metastable Switches to Attractors to Machine Learning. PLoS ONE, 2014, 9, e85175.	1.1	38
5404	A Memristor SPICE Model Accounting for Synaptic Activity Dependence. PLoS ONE, 2015, 10, e0120506.	1.1	30
5405	Finite time synchronization of memristor-based Cohen-Grossberg neural networks with mixed delays. PLoS ONE, 2017, 12, e0185007.	1.1	11
5406	TOWARDS COMPLEX SYSTEM THEORY: TUTORIAL. Neural Network World, 2015, 25, 5-33.	0.5	32
5407	A Compact Four Transistor CMOS-Design of a Floating Memristor for Adaptive Spiking Neural Networks and Corresponding Self-X Sensor Electronics to Industry 4.0. TM Technisches Messen, 2020, 87, s91-s96.	0.3	7
5408	Memristive Behavior of Plasma Treated TiO2 Thin Films. International Journal of Automotive and Mechanical Engineering, 2013, 8, 1339-1347.	0.5	4
5409	Memristancy Effects in Solid-State Heterostructures. Metallofizika I Noveishie Tekhnologii, 2016, 38, 995-1008.	0.2	3
5410	Turing patterns in the simplest MCNN. Nonlinear Theory and Its Applications IEICE, 2019, 10, 390-398.	0.4	3
5411	Memristor Model for SPICE. IEICE Transactions on Electronics, 2010, E93-C, 355-360.	0.3	9
5412	Memristor MOS Content Addressable Memory (MCAM) Design Using 22nm VLSI Technology. International Journal of Advanced Research in Computer and Communication Engineering, 2015, , 189-194.	0.1	1
5413	Memristor Overview up to 2015. Menoufia Journal of Electronic Engineering Research, 2015, 24, 79-106.	0.3	5
5414	Memristor and its Applications: A Comprehensive Review. Nanoscience and Nanotechnology - Asia, 2020, 10, 558-576.	0.3	2
5415	Recent Progress and Patents on Computational Structures and Methods with Memristive Devices. Recent Patents on Electrical and Electronic Engineering, 2013, 6, 101-116.	0.5	7
5416	Quantized Three-lon-Channel Neuron Model for Neural Action Potentials. Quantum - the Open Journal for Quantum Science, 0, 4, 224.	0.0	6

#	Article	IF	CITATIONS
5417	Rectifying memristor bridge circuit realized with human skin. Journal of Electrical Bioimpedance, 2018, 9, 184-192.	0.5	4
5418	Adaptive Synchronization of Memristor - based Chaotic Neural Systems. Journal of Engineering Science and Technology Review, 2015, 8, 17-23.	0.2	3
5419	Synchronization of Chaotic Nonlinear Circuits via a Memristor. Journal of Engineering Science and Technology Review, 2015, 8, 45-51.	0.2	6
5420	Memristor: A New Concept in Synchronization of Coupled Neuromorphic C ircuits. Journal of Engineering Science and Technology Review, 2015, 8, 157-173.	0.2	122
5421	Chaos Control in Memristor - based Oscillators Using Intelligent Sliding Mode Control. Journal of Engineering Science and Technology Review, 2015, 8, 192-197.	0.2	5
5422	A Memristor - Based Hyperchaotic System with Hidden Attractors : Dynamics , Synchronization and Circuital Emulating. Journal of Engineering Science and Technology Review, 2015, 8, 205-214.	0.2	104
5423	Characteristics of Chua's circuit based on memristor and responses to stimulating signals. , 2016, , .		1
5426	STDP and STDP variations with memristors for spiking neuromorphic learning systems. Frontiers in Neuroscience, 2013, 7, 2.	1.4	368
5427	Degradable and Dissolvable Thin-Film Materials for the Applications of New-Generation Environmental-Friendly Electronic Devices. Applied Sciences (Switzerland), 2020, 10, 1320.	1.3	15
5428	Memristive and Memory Impedance Behavior in a Photo-Annealed ZnO–rGO Thin-Film Device. Electronics (Switzerland), 2020, 9, 287.	1.8	16
5429	Synthesis and Memristor Effect of a Forming-Free ZnO Nanocrystalline Films. Nanomaterials, 2020, 10, 1007.	1.9	26
5430	Stable analog resistance change of a molecular-gap atomic switch over a wide range. Japanese Journal of Applied Physics, 2020, 59, SIIF01.	0.8	8
5431	Formation and dissolution of conductive channels in an Ag2S-islands network. Japanese Journal of Applied Physics, 2020, 59, SN1011.	0.8	4
5432	An Overview to FPGA Device Design Technologies. Dianzi Yu Xinxi Xuebao/Journal of Electronics and Information Technology, 2010, 32, 714-727.	0.1	23
5433	Fast Logic Synthesis for RRAM-based In-Memory Computing using Majority-Inverter Graphs. , 2016, , .		25
5434	Pinning Synchronization of Coupled Memristive Neutral-type Neural Networks with Stochastic Perturbations. Information Technology Journal, 2014, 13, 2356-2362.	0.3	2
5435	Pattern recognition with TiO _x -based memristive devices. AIMS Materials Science, 2015, 2, 203-216.	0.7	21
5436	Computational capacity and energy consumption of complex resistive switch networks. AIMS Materials Science, 2015, 2, 530-545.	0.7	9

#	Article	IF	Citations
5437	Design and Analysis of Low Power Hybrid Memristor-CMOS Based Distinct Binary Logic Nonvolatile SRAM Cell. Circuits and Systems, 2016, 07, 119-127.	0.1	8
5438	Dynamics and Synchronization of Memristor-Based Fractional-Order System. International Journal of Modern Nonlinear Theory and Application, 2013, 02, 223-227.	0.1	1
5439	Development of a Measurement Software for the Characterization of WORM Devices for Novel Memory Storage Applications. Journal of Computer and Communications, 2018, 06, 1-13.	0.6	2
5440	Electromagnetic Interpretation of Fractional-Order Elements. Journal of Modern Physics, 2017, 08, 2209-2218.	0.3	5
5441	Nanometer Thick Diffused Hafnium and Titanium Oxide Light Sensing Film Structures. World Journal of Condensed Matter Physics, 2017, 07, 36-45.	1.1	1
5442	Quantitative Analysis of Memristance Defined Exponential Model for Multi-bits Titanium Dioxide Memristor Memory Cell. Advances in Electrical and Computer Engineering, 2016, 16, 75-84.	0.5	2
5443	Memristor Bridge Synapse-based Neural Network Circuit Design and Simulation of the Hardware-Implemented Artificial Neuron. Journal of Institute of Control, Robotics and Systems, 2015, 21, 477-481.	0.1	2
5444	Stability analysis of the fourth-order cubic memristor oscillator. , 0, , .		3
5445	Mathematical Analisys of a Third-order Memristor-based Chua's Oscillator. TeMa, 2011, 12, 91-99.	0.1	2
5453	Memristor Binarized Neural Networks. Journal of Semiconductor Technology and Science, 2018, 18, 568-577.	0.1	24
5454	ADVANCED MEMRISTOR MODEL WITH A MODIFIED BIOLEK WINDOW AND A VOLTAGE-DEPENDENT VARIABLE EXPONENT. Informatyka Automatyka Pomiary W Gospodarce I Ochronie Åšrodowiska, 2018, 8, 15-20.	0.2	4
5455	An introduction to the memristor – a valuable circuit element in bioelectricity and bioimpedance. Journal of Electrical Bioimpedance, 2012, 3, 20-28.	0.5	33
5456	Implementation of a Memcapacitor Emulator with Off-the-Shelf Devices. Elektronika Ir Elektrotechnika, 2013, 19, .	0.4	15
5457	Mathematical Analysis of Memristor CNN., 0,,.		5
5458	Path Tracking of dynamics of a Chaotic Memristor Circuit. Journal of Interpolation and Approximation in Scientific Computing, 0, 2014, 1-18.	0.3	2
5459	Hopf Bifurcation and Chaos in Simplest Fractional-Order Memristor-based Electrical Circuit. Indian Journal of Industrial and Applied Mathematics, 2015, 6, 105.	0.1	7
5460	Dynamical analysis of memristor chaotic oscillator. Wuli Xuebao/Acta Physica Sinica, 2010, 59, 3785.	0.2	65
5461	Analysis and implementation of memristor chaotic circuit. Wuli Xuebao/Acta Physica Sinica, 2011, 60, 120502.	0.2	28

#	Article	IF	CITATIONS
5462	A novel meminductor emulator based on analog circuits. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 158501.	0.2	24
5463	A simplest parallel chaotic system of memristor. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 190506.	0.2	16
5464	Equivalent circuit analysis model of charge-controlled memristor and its circuit characteristics. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 218401.	0.2	11
5465	Design and simulation of chaotic circuit for flux-controlled memristor and charge-controlled memristor. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 230502.	0.2	19
5466	Memristive chaotic circuit based on modified SC-CNNs. Wuli Xuebao/Acta Physica Sinica, 2014, 63, 010502.	0.2	14
5467	The 4-dimensional hyperchaotic memristive circuit based on Chua's circuit. Wuli Xuebao/Acta Physica Sinica, 2014, 63, 080502.	0.2	15
5468	Design and simulation of a memristor chaotic circuit based on current feedback op amp. Wuli Xuebao/Acta Physica Sinica, 2014, 63, 180502.	0.2	6
5469	Research progress of memristors and memristive mechanism. Wuli Xuebao/Acta Physica Sinica, 2014, 63, 187301.	0.2	9
5470	An improved WOx memristor model with synapse characteristic analysis. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 148501.	0.2	11
5471	Study on dynamical characteristics of a meminductor model and its meminductor-based oscillator. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 210504.	0.2	8
5472	Chaotic circuit of ion migration memristor and its application in the voice secure communication. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 210507.	0.2	10
5473	Research of coupling behavior based on series-parallel flux-controlled memristor. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 237303.	0.2	6
5474	A fractional-order memristor model and the fingerprint of the simple series circuits including a fractional-order memristor. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 238401.	0.2	15
5475	A memristor-based chaotic system and its field programmable gate array implementation. Wuli Xuebao/Acta Physica Sinica, 2016, 65, 120503.	0.2	42
5476	Memristor-based Lorenz hyper-chaotic system and its circuit implementation. Wuli Xuebao/Acta Physica Sinica, 2016, 65, 190502.	0.2	17
5477	Meminductive Wein-bridge chaotic oscillator. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 020502.	0.2	5
5478	A memristor-based time-delay chaotic systems and pseudo-random sequence generator. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 030502.	0.2	11
5479	Research on a six-order chaotic circuit with three memristors. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 040502.	0.2	16

#	ARTICLE	IF	CITATIONS
5480	Memristor-based multi-scroll chaotic system and its pulse synchronization control. Wuli Xuebao/Acta Physica Sinica, 2018, 67, 110502.	0.2	10
5481	Fundamental circuit element and nonvolatile memory based on magnetoelectric effect. Wuli Xuebao/Acta Physica Sinica, 2018, 67, 127501.	0.2	3
5482	Bi-stability in a fifth-order voltage-controlled memristor-based Chua's chaotic circuit. Wuli Xuebao/Acta Physica Sinica, 2018, 67, 230502.	0.2	5
5483	Dynamic analysis of symmetric behavior in flux-controlled memristor circuit based on field programmable gate array. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 130502.	0.2	5
5484	Oxide-based memristive neuromorphic synaptic devices. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 168504.	0.2	11
5485	Improvement of Rectifying Property in Pt/TiO _{<i>x</i>} /Pt by Controlling Oxidization of TiO _{<i>x</i>} /Pt by Controlling Oxidization of Applied Physics, 2011, 50, 04DH04.	0.8	1
5486	Generating Any Number of Diversified Hidden Attractors via Memristor Coupling. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 4945-4956.	3.5	33
5487	A Dynamic Event-Triggered Approach to State Estimation for Switched Memristive Neural Networks With Nonhomogeneous Sojourn Probabilities. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 4924-4934.	3. 5	107
5488	Relaxed Exponential Stabilization for Coupled Memristive Neural Networks With Connection Fault and Multiple Delays via Optimized Elastic Event-Triggered Mechanism. IEEE Transactions on Neural Networks and Learning Systems, 2021, PP, 1-15.	7.2	1
5489	High-performance perovskite memristor by integrating a tip-shape contact. Journal of Materials Chemistry C, 2021, 9, 15435-15444.	2.7	14
5490	MultPIM: Fast Stateful Multiplication for Processing-in-Memory. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1647-1651.	2.2	11
5491	Robust Finite-Time Passivity and Synchronization of Coupled Complex-Valued Memristive Neural Networks with Parameter Uncertainty., 2021,,.		0
5492	Finite-Time Boundedness of Impulsive Memristive Neural Networks with Markovian Jumping Parameters., 2021,,.		0
5493	Threshold Type Binary Memristor Emulator based on DVCC. , 2021, , .		0
5494	High Frequency Meminductor Emulator using Current Conveyor Transconductance Amplifier and Memristor. , $2021, \ldots$		0
5495	A Study of the Applicability of Existing Compact Models to the Simulation of Memristive Structures Characteristics on Low-Dimensional Materials. Micromachines, 2021, 12, 1201.	1.4	1
5496	Nonlinear effects in memristors with mobile vacancies. Royal Society Open Science, 2021, 8, 210677.	1.1	1
5497	Non-fragile state estimation for memristive cellular neural networks with proportional delay. Mathematics and Computers in Simulation, 2022, 193, 217-231.	2.4	5

#	Article	IF	CITATIONS
5498	Mem-fractive properties of mushrooms. Bioinspiration and Biomimetics, 2021, 16, 066026.	1.5	19
5499	Review of Manufacturing Process Defects and Their Effects on Memristive Devices. Journal of Electronic Testing: Theory and Applications (JETTA), 2021, 37, 427-437.	0.9	8
5500	Nonâ€fragile state estimation for secondâ€order memristive neural networks with unbounded timeâ€varying delays. International Journal of Adaptive Control and Signal Processing, 2022, 36, 88-103.	2.3	3
5501	A Dynamical Compact Model of Diffusive and Drift Memristors for Neuromorphic Computing. Advanced Electronic Materials, 2022, 8, 2100696.	2.6	19
5502	On addressing the similarities between STDP concept and synaptic/memristive coupled neurons by realizing of the memristive synapse based HR neurons. Engineering Science and Technology, an International Journal, 2021, , .	2.0	2
5503	Optical Memristive Switches. Kluwer International Series in Electronic Materials: Science and Technology, 2022, , 355-376.	0.3	0
5504	Finite-time synchronization and <mml:math altimg="si9.svg" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:row><mml:row><mml:mrow><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:row><mml:ro< td=""><td>ni>â^ž3.5</td><td>ıml:mi></td></mml:ro<></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:row></mml:mrow></mml:row></mml:row></mml:mrow></mml:msub></mml:mrow></mml:math>	ni>â^ž3.5	ıml:mi>
5505	Metal Organic Spin Transistor. Nano Letters, 2021, 21, 8657-8663.	4.5	12
5506	Parameter identification for discrete memristive chaotic map using adaptive differential evolution algorithm. Nonlinear Dynamics, 2022, 107, 1263-1275.	2.7	46
5507	Research and Development of Parameter Extraction Approaches for Memristor Models. Micromachines, 2021, 12, 1220.	1.4	4
5508	Memristive Equivalent Circuit Model for Battery. Sustainability, 2021, 13, 11204.	1.6	1
5509	Dynamic Behaviors and Training Effects in TiN/Ti/HfOx/TiN-Nanolayered Memristors with Controllable Quantized Conductance States: Implications for Quantum and Neuromorphic Computing Devices. ACS Applied Nano Materials, 2021, 4, 11296-11304.	2.4	2
5510	Dual mode, high frequency and power efficient grounded memristor based on OTA and DVCC. Analog Integrated Circuits and Signal Processing, 2022, 110, 81-89.	0.9	10
5511	Memristive Computation-Oriented Chaos and Dynamics Control. Frontiers in Physics, 2021, 9, .	1.0	1
5512	Probing Electrochemistry at the Nanoscale: In Situ TEM and STM Characterizations of Conducting Filaments in Memristive Devices. Kluwer International Series in Electronic Materials: Science and Technology, 2022, , 87-120.	0.3	0
5513	TCAD Modeling of Resistive-Switching of HfO2 Memristors: Efficient Device-Circuit Co-Design for Neuromorphic Systems. Frontiers in Nanotechnology, 2021, 3, .	2.4	13
5514	A training strategy for improving the robustness of memristor-based binarized convolutional neural networks. Semiconductor Science and Technology, 2022, 37, 015013.	1.0	3
5515	Reliability Assessment of Memristor based Gas Sensor Array. , 2021, , .		0

#	Article	IF	CITATIONS
5516	Integrating spin-based technologies with atomically controlled van der Waals interfaces. Materials Today, 2021, 51, 350-364.	8.3	8
5517	Characteristic analysis of volatile avalanche diode threshold switching for bionic nerve synapse applications. Scientific Reports, 2021, 11, 21051.	1.6	0
5518	Memristive Computing Devices and Applications. Kluwer International Series in Electronic Materials: Science and Technology, 2022, , 5-32.	0.3	0
5519	Reset Switching Statistics of TaOx-Based Memristor. Kluwer International Series in Electronic Materials: Science and Technology, 2022, , 187-195.	0.3	0
5520	Memristive electromagnetic induction effects on Hopfield neural network. Nonlinear Dynamics, 2021, 106, 2559-2576.	2.7	59
5521	The WEAF Mnecosystem: a perspective of MEMS/NEMS technologies as pillars of future 6G, tactile internet and super-loT. Microsystem Technologies, 2021, 27, 4193-4207.	1.2	11
5522	Finite-time stability of fractional-order delayed Cohen–Grossberg memristive neural networks: a novel fractional-order delayed Gronwall inequality approach. International Journal of General Systems, 2022, 51, 27-53.	1.2	9
5523	Wide-band compact floating memristor emulator configuration with electronic/resistive adjustability. Microelectronics Journal, 2021, 117, 105284.	1.1	8
5524	Firing activities induced by memristive autapse in Fitzhugh–Nagumo neuron with time delay. AEU - International Journal of Electronics and Communications, 2021, 142, 153995.	1.7	27
5525	Spray pyrolysis deposited iron tungstate memristive device for artificial synapse application. Materials Today Communications, 2021, 29, 102900.	0.9	7
5526	Epitaxial ferroelectric interfacial devices. Applied Physics Reviews, 2021, 8, .	5 . 5	15
5527	Can we have an optical memristor using metamaterials?., 2009,,.		0
5529	History of Phase Change Memories. , 2009, , 1-14.		2
5530	The mathematical model and properties of memristor with border constraint. Wuli Xuebao/Acta Physica Sinica, 2010, 59, 6673.	0.2	8
5531	A Hybrid CMOS-Nano FPGA Based on Majority Logic: From Devices to Architecture. , 2010, , 139-161.		3
5532	Safety Considerations., 2011,, 205-236.		0
5533	Fabrication of Nanowire Crossbars. Lecture Notes in Electrical Engineering, 2011, , 33-73.	0.3	0
5535	Some Magnetic Recording Developments. , 2012, , 283-326.		0

#	Article	IF	CITATIONS
5536	Memristor., 2012,, 2174-2174.		0
5537	Basic properties and applications of the memristor circuit. Wuli Xuebao/Acta Physica Sinica, 2012, 61, 118101.	0.2	13
5538	Progress of memristor modulated by interfacial effect. Wuli Xuebao/Acta Physica Sinica, 2012, 61, 217306.	0.2	10
5539	Excitable Reaction-Diffusion Media with Memristors. Journal of Signal Processing, 2012, 16, 283-286.	0.2	1
5540	Molecules onÂSemiconductors. The Electrical Engineering Handbook, 2012, , 367-396.	0.2	0
5541	Modeling of frequency and power characteristics of titanium dioxide memristor. Nauka I Obrazovanie, 2012, 12, .	0.1	0
5546	The Realization and Working Conditions of Memristor Based on Multisim. Journal of Computer and Communications, 2013, 01, 5-10.	0.6	2
5547	Fernziele der Nanoelektronik. Acatech-Diskussion, 2013, , 149-223.	0.2	0
5548	Energy-Aware High Performance Computingâ€"A Survey. Advances in Computers, 2013, , 1-78.	1.2	2
5549	Imitation Programming Unorganised Machines. Studies in Computational Intelligence, 2013, , 63-81.	0.7	O
5552	Primitive IPs Design Based on a Memristor-CMOS Circuit Technology. Journal of the Institute of Electronics and Information Engineers, 2013, 50, 65-72.	0.0	1
5557	Energy Efficient Systems Using Resistive Memory Devices. , 2014, , 79-115.		O
5559	Silicon Nanowire-Based Memristive Devices. , 2014, , 253-280.		0
5560	Spintronic Memristor as Interface Between DNA and Solid State Devices. , 2014, , 281-298.		0
5562	Recent Advances on Information Transmission and Storage Assisted by Noise. Understanding Complex Systems, 2014, , 181-191.	0.3	0
5563	From Theory to Development: Role of Multiphysics Modeling and its Effect on Education in Electronics. Electronics, 2014, 17, .	0.2	4
5564	Memristive Behavior of NAOH-Immersed Titania Nanostructures. Journal of Mechanical Engineering and Sciences, 2013, 5, 688-695.	0.3	3
5565	Promising structures with memory based on inorganic materials. Nauka I Obrazovanie, 2013, 13, .	0.1	0

#	Article	IF	CITATIONS
5566	Neuromorphic Computing for Cognitive Augmentation in Cyber Defense. Advances in Information Security, 2014, , 19-45.	0.9	3
5567	A Memristor Circuit Using Basic Elements with Memory Capability. Smart Innovation, Systems and Technologies, 2014, , 117-124.	0.5	3
5568	Spike-Timing-Dependent-Plasticity with Memristors. , 2014, , 211-247.		3
5569	Two types of nanoscale nonlinear memristor models and their series-parallel circuits. Wuli Xuebao/Acta Physica Sinica, 2014, 63, 128502.	0.2	9
5570	Memory Effects in Multi-terminal Solid State Devices and Their Applications. , 2014, , 429-472.		0
5571	Neuromorphic Technologies, Memristors. , 2014, , 1-3.		O
5572	Comparison of Memristive Behaviors of HfTiO4/Invar-Based Structures at Nanometer Scale. Lecture Notes in Electrical Engineering, 2014, , 41-46.	0.3	0
5574	Reaction-Diffusion Media with Excitable Oregonators Coupled by Memristors. , 2014, , 625-635.		1
5575	Memristive Radial Basis Function Neural Network for Parameters Adjustment of PID Controller. Lecture Notes in Computer Science, 2014, , 150-158.	1.0	0
5577	Evolving Memristive Neural Networks. , 2014, , 293-322.		O
5578	Autowaves in a Lattice of Memristor-Based Cells. , 2014, , 637-647.		1
5579	Influence of temperature change on conductive characteristics of titanium oxide memristor. Wuli Xuebao/Acta Physica Sinica, 2014, 63, 098402.	0.2	3
5580	MIEC Materials. , 2014, , 1297-1300.		0
5581	Low Power Neuromorphic Architectures to Enable Pervasive Deployment of Intrusion Detection Systems. Advances in Information Security, 2014, , 151-168.	0.9	O
5582	Shortest Path Computing Using Memristor-Based Circuits and Cellular Automata. Lecture Notes in Computer Science, 2014, , 398-407.	1.0	5
5583	Organic Memristive Devices and Neuromorphic Circuits. , 2014, , 389-411.		1
5584	Resistive Switching in MIM Capacitors Using Porous Anodic Alumina. Environmental Science and Engineering, 2014, , 29-32.	0.1	0
5585	Memristor-based Memory Cell with Less Noise Margins and Storing Non-Binary Data. Environmental Science and Engineering, 2014, , 183-187.	0.1	O

#	Article	IF	CITATIONS
5586	Memristor SPICE Model Simulation and Device Hardware Correlation. Advances in Information Security, 2014, , 169-174.	0.9	0
5588	A Gallery of Chaotic Circuits. SpringerBriefs in Applied Sciences and Technology, 2014, , 33-71.	0.2	2
5589	Memristor, a New Nano-Scaled Element of the Electronic Circuitry. Visnik Nacional Noi Academii Nauk Ukrai Ni, 2014, , 32-39.	0.0	0
5590	PSPICE circuit simulation for electrical characteristic analysis of the memristor. Journal of the Korea Academia-Industrial Cooperation Society, 2014, 15, 1051-1058.	0.0	0
5591	CMOS-Memristor Hybrid 4-bit Multiplier Circuit for Energy-Efficient Computing. Journal of IKEEE, 2014, 18, 228-233.	0.0	1
5592	Design of Redundant Binary Adder based on Memristor-CMOS. Journal of the Institute of Electronics and Information Engineers, 2014, 51, 67-74.	0.0	0
5593	A Reconfigurable Multiplier Architecture Based on Memristor-CMOS Technology. Journal of the Institute of Electronics and Information Engineers, 2014, 51, 64-71.	0.0	0
5594	Simulation of memristors conducting alternating current. Pollack Periodica, 2014, 9, 71-78.	0.2	0
5595	Resistive Switching Characteristics in Electrochemically Synthesized ZnO Films. AIMS Materials Science, 2015, 2, 28-36.	0.7	3
5596	Memristor Crossbar Array for Image Storing. Lecture Notes in Computer Science, 2015, , 166-173.	1.0	1
5597	Fault Diagnosis of Power Transformer Based on Memristive Neural Network. , 0, , .		0
5598	Research on radiation damage in titanium oxide memristors by Monte Carlo method. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 078401.	0.2	1
5599	Influence of length parameter on the characteristics of nanoscale titanium oxide memristor. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 108502.	0.2	0
5600	A Spintronic Memristor Based PID Controller. , 0, , .		0
5601	Graphene Nanostructures for Memristive Devices. , 2015, , 1-10.		0
5602	A digital-analog hybrid random number generator based on memristor. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 240503.	0.2	2
5604	A Full-Wave Rectifier Based on Memristive Systems. , 0, , .		1
5605	A Novel Four-Dimensional Memristive Hyperchaotic System with Its Analog Circuit Implementation. Lecture Notes in Computer Science, 2015, , 157-165.	1.0	1

#	ARTICLE	IF	CITATIONS
5606	TMR and Al–O Based Magnetic Tunneling Junctions. , 2015, , 1-39.		1
5607	Memristor Modeling In MATLAB & PSPICE. , 2015, , .		1
5608	MEMRİSTOR TEMELLİ SALLEN-KEY SÜZGEÇLER. Journal of the Faculty of Engineering and Architecture of Gazi University, 2015, 30, .	0.3	3
5609	Memristor circuit simulation in MicroCap. Electronics and Communications, 2015, 20, 27.	0.2	0
5610	Analysis of Memristors with and without Temperature Effects. International Journal of Applied Engineering Research: IJAER, 2015, 10, 41464.	0.3	0
5611	Bifurcation without parameters in circuits with memristors: A DAE approach. , 2015, , .		0
5612	Study on Memristive Characteristics in Electronic Devices Based on Vanadium Dioxide Thin Films Using 966nm Laser Pulses. Journal of the Korean Institute of Illuminating and Electrical Installation Engineers, 2015, 29, 59-65.	0.0	O
5613	Introducing Memristor to Electrical and Electronic Engineering Undergraduates., 2016,,.		0
5614	Graphene Nanostructures for Memristive Devices. , 2016, , 1357-1365.		0
5615	Responses to Stimulating Signals of Memristive Circuit Based On LC Contour. , 2016, , .		0
5616	On the Production Testing of Memristor Ratioed Logic (MRL) Gates. Circuits and Systems, 2016, 07, 3016-3025.	0.1	2
5617	Von der natürlichen über die künstliche zur Superintelligenz?. Technik Im Fokus, 2016, , 181-227.	0.2	0
5618	Efficient 3-D Fundamental LOD-FDTD Method Incorporated with Memristor. IEICE Transactions on Electronics, 2016, E99.C, 788-792.	0.3	3
5619	A Piece Wise Linear Memristor Model with Switches. International Journal of Modeling and Optimization, 2016, 6, 124-127.	0.4	4
5621	Synthesis and Analysis of a Memristor-Based Perceptron for Logical Function Emulation. Przeglad Elektrotechniczny, 2016, 1, 24-27.	0.1	0
5622	Harmonic Generation Analyses of Memristor with Different Barriers and Neuron. Acta Physica Polonica A, 2016, 130, 226-227.	0.2	0
5623	Memrystor - brakujÄcy element elektroniczny. Elektronika, 2016, 1, 11-13.	0.0	0
5624	Novel Nanoelectronic Device Applications of Nanocrystals and Nanoparticles. Advances in Materials Science and Engineering, 2016, , 461-500.	0.4	0

#	Article	IF	Citations
5625	Live demonstration: Memristor synaptic array with FPGA-implemented neurons for neuromorphic pattern recognition. , $2016, , .$		0
5626	Design and implementation of non-linear oscillator circuit using nanoelectronic devices. , 2016, , .		0
5627	Multiple Resistance States in Vanadium-Dioxide-Based Memristive Device Using 966Ânm Laser Diode. Lecture Notes in Electrical Engineering, 2017, , 390-394.	0.3	0
5628	Simulink Model for Piece Wise Linear Approximation of Memristor. International Journal of Applied Mathematics Electronics and Computers, 2016, 4, 386-386.	0.6	1
5629	Common properties of dynamical models of electric arcs and memristors. Elektronika, 2016, 1, 48-57.	0.0	0
5630	Coexistence and Local Exponential Stability of Multiple Equilibria in Memristive Neural Networks with a Class of General Nonmonotonic Activation Functions. Lecture Notes in Computer Science, 2017, , 354-362.	1.0	0
5631	A Conservative Hyperchaotic Hyperjerk System Based on Memristive Device. Studies in Computational Intelligence, 2017, , 393-423.	0.7	3
5632	Theory, Modeling and Design of Memristor-Based Min-Max Circuits. Studies in Computational Intelligence, 2017, , 187-205.	0.7	1
5633	Neuromorphic Computing Based on Organic Memristive Systems. , 2017, , 1-19.		1
5634	Several Logic Gates Extended from MAGIC-Memristor-Aided Logic. Lecture Notes in Computer Science, 2017, , 170-179.	1.0	1
5636	Memristor in a Nutshell. , 2017, , 159-180.		0
5638	Research on the Voltammetric Characteristics of a New NonlinearWindow Function of Memristor. Biophysics, 2017, 05, 25-32.	0.2	0
5639	Charge-Trap-Non-volatile Memory and Focus on Flexible Flash Memory Devices. , 2017, , 55-89.		5
5642	Flexoelectric Effect Impact on the Hysteretic Dynamics of the Local Electromechanical Response of Mixed Ionic-Electronic Conductors. Ukrainian Journal of Physics, 2017, 62, 326-334.	0.1	2
5643	Memristors and thermal noise: Is the memristor indeed the missing passive circuit element?., $2017, \dots$		2
5644	Memristor Model Based on Generalized Boundary Condition. SSRG International Journal of Engineering Trends and Technology, 2017, 49, 192-194.	0.3	0
5645	Reconfigurable Memristor and CNFET based Four Quadrant Multiplier for Low Power Applications. International Journal of Computer Applications, 2017, 173, 14-20.	0.2	2
5647	Frequency Characteristics of Memristor Structures Based on the Complex Transition-Metal Oxides. Metallofizika I Noveishie Tekhnologii, 2017, 39, 733-742.	0.2	0

#	Article	IF	CITATIONS
5648	Phase Change Memory., 2017,, 31-68.		0
5649	The Future of Nonvolatile Memory. , 2017, , 177-184.		0
5650	Advanced Model of Complex Information System. , 2018, , 4391-4398.		0
5651	Neuromorphic Computing Based on Organic Memristive Systems. , 2018, , 411-429.		O
5652	Julia fractal based multi-scroll memristive chaotic system. Wuli Xuebao/Acta Physica Sinica, 2018, 67, 090502.	0.2	8
5653	Simulink modeling of memristor, memcapacitor, meminductor and their characteristics analysis. Wuli Xuebao/Acta Physica Sinica, 2018, 67, 098501.	0.2	2
5654	From Branly Coherer to Chua Memristor. , 2018, , 1-33.		0
5657	INVESTIGATION OF THE MEMRISTOR NONLINEAR PROPERTIES. Informatyka Automatyka Pomiary W Gospodarce I Ochronie Åšrodowiska, 2018, 8, 12-15.	0.2	0
5658	Analysis of a Passive Memristor Crossbar. Oriental Journal of Computer Science and Technology, 2018, 11, 04-11.	0.6	0
5659	ANALYSIS OF AN ANTI-PARALLEL MEMRISTOR CIRCUIT. Informatyka Automatyka Pomiary W Gospodarce I Ochronie Åšrodowiska, 2018, 8, 9-14.	0.2	0
5660	Energy and Area Efficiency in Neuromorphic Computing for Resource Constrained Devices. , 2018, , .		10
5661	Experimental measurements on resistive switching devices: Gaining hands-on experience., 2018,,.		3
5662	A Memristor-Based Cell for Complexity. PoliTO Springer Series, 2019, , 133-141.	0.3	0
5663	Efficient Mini-Batch Training on Memristor Neural Network Integrating Gradient Calculation and Weight Update. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 1092-1100.	0.2	1
5665	Evaluation of Nanoscale Memristor Device for Analog and Digital Application. , 2018, , 393-423.		1
5667	Analog Programmable Circuit Implementation for Memristor. Iraqi Journal for Electrical and Electronic Engineering, 2018, 14, 1-9.	0.8	0
5668	Von der natürlichen über die künstliche zur Superintelligenz?. Technik Im Fokus, 2019, , 185-243.	0.2	0
5669	Multilayer Neural Network with Synapse Based on Two Successive Memristors. Open Electrical and Electronic Engineering Journal, 2018, 12, 132-147.	0.6	2

#	Article	IF	CITATIONS
5670	Control of the modified chaotic Chua's circuit using threshold method. Vìsnik Nacìonalʹnogo TehnìÄnogo Unìversitetu Ukraìni Kììvsʹkij PolìtehnìÄnij ÃŒnstitut: Serìâ Radìotehnìka, Radìoaparatobuduvannâ, 2018, , 61-65.	0.3	1
5671	Asynchronous Bifurcation Processor â€"The Fourth Mathematical Modeling Method of Biomimetic and Neuromorphic Hardware and Its Recent Developmentsâ€". The Brain & Neural Networks, 2018, 25, 165-174.	0.1	0
5673	The Detectors Used in the First Radios were Memristors. , 2019, , 231-245.		0
5674	Cellular Nonlinear Networks withÂMemristor Synapses. , 2019, , 637-660.		0
5675	Spiking in Memristor Networks. , 2019, , 767-789.		1
5677	Design and analysis of new meminductor model based on Knowm memristor. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 198501.	0.2	4
5678	Neural Network Circuits and Parallel Implementations. , 2019, , 829-851.		2
5681	Memory Effects in Multi-terminal Solid State Devices and Their Applications. , 2019, , 1021-1064.		0
5682	Why are Memristor and Memistor Different Devices?., 2019,, 247-265.		0
5683	Evolving Memristive Neural Networks. , 2019, , 661-690.		1
5684	Memristive In Situ Computing. , 2019, , 1005-1020.		1
5685	Memristor-based Hâ^ž Synchronization Control for Fractional-order Neural Networks with Time-delays. , 0, , .		1
5686	The Art and Science of Constructing a Memristor Model: Updated. , 2019, , 267-285.		3
5687	Questioning the aloe vera plant and apple memristors. Journal of Electrical Bioimpedance, 2019, 10, 83-89.	0.5	5
5688	Memory capacitance behavior at single resistance state in memristor and multi-state characteristic. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 068502.	0.2	0
5689	Reaction-Diffusion Media with Excitable Oregonators Coupled by Memristors. , 2019, , 1229-1239.		2
5691	Mimicking Physarum Space Exploration with Networks of Memristive Oscillators. , 2019, , 1241-1274.		1
5692	Memristor Emulators., 2019, , 1137-1159.		4

#	Article	IF	CITATIONS
5693	Synapse as a Memristor., 2019, , 351-367.		2
5694	ANN Circuit Application of Complementary Resistive Switches. Balkan Journal of Electrical and Computer Engineering, 0, , 34-43.	0.4	1
5695	The Principles of Forming of the Mathematical Model of Nanoelectronic Components of Quantum Computer Systems with Memresistance Branches. , 0, , .		0
5696	Behavior of Multiple Memristor Circuits. , 2019, , 913-940.		O
5697	Advanced Model of Complex Information System. Advances in Library and Information Science, 2019, , 131-141.	0.2	0
5699	Memristor-Based Addition andÂMultiplication. , 2019, , 1123-1136.		0
5700	Autowaves in a Lattice ofÂMemristor-Based Cells. , 2019, , 1275-1287.		0
5701	Aftermath of Finding the Memristor. , 2019, , 159-163.		1
5702	Memristor, Hodgkin-Huxley, and Edge of Chaos., 2019,, 287-313.		2
5703	Self-organization and Emergence ofÂDynamical Structures inÂNeuromorphic Atomic SwitchÂNetworks. , 2019, , 391-427.		4
5704	Neuromorphic Devices and Networks Based on Memristors with Ionic Dynamics. , 2019, , 527-554.		0
5705	A Generic Circuit Model for Memristor Based One Diode-One Resistor Devices. Balkan Journal of Electrical and Computer Engineering, 2019, 7, 15-19.	0.4	3
5706	Brain-Inspired Memristive Neural Networks for Unsupervised Learning., 2019, , 495-525.		1
5707	Exponential Synchronization for Fractional-order Time-delayed Memristive Neural Networks. International Journal of Advanced Network, Monitoring, and Controls, 2019, 3, 1-15.	0.2	0
5708	Memristor Bridge-Based Artificial Neural Weighting Circuit., 2019,, 619-635.		0
5709	Memristors and Memristive Devices forÂNeuromorphic Computing. , 2019, , 369-389.		2
5710	The Fourth Element., 2019,, 1-14.		1
5711	Solid-State Memcapacitors and Their Applications. , 2019, , 1211-1228.		0

#	Article	IF	CITATIONS
5712	Spike-Timing-Dependent-Plasticity withÂMemristors. , 2019, , 429-467.		2
5713	Three Fingerprints of Memristor. , 2019, , 165-196.		7
5714	Everything You Wish to Know About Memristors but Are Afraid to Ask., 2019,, 89-157.		16
5716	The non-linear electrical properties of silver/silver chloride electrodes in sodium chloride solution. Journal of Electrical Bioimpedance, 2019, 10, 113-123.	0.5	3
5717	If It's Pinched It's a Memristor. , 2019, , 15-88.		1
5718	Γ-type Synchronization of Memristor-Based Competitive Neural Networks with Time-Varying Delays via Nonlinear Feedback Control. Lecture Notes in Computer Science, 2019, , 88-97.	1.0	0
5719	A Memristor-Based Chaotic System withÂBoundary Conditions. , 2019, , 941-954.		0
5720	Computing Shortest Paths in 2D and 3D Memristive Networks. , 2019, , 1161-1176.		0
5721	Influence of the Thickness of TiO2/TiO2-x Layers on the Behavior of a Memristor Device. Journal of Korean Institute of Metals and Materials, 2019, 57, 84-90.	0.4	4
5722	A novel design of a-Si based memristor with optical readout functionality utilizing silicon prism. , 2019, , .		0
5723	Elektronik Olarak Ayarlanabilir Memristör Tabanlı Chua Devresinin Gerçeklenmesi. Journal of the Institute of Science and Technology, 2019, 9, 121-129.	0.3	1
5724	Memristorâ€"The New Computing Element for Data-Centric Real-Time Image Processing. Lecture Notes in Electrical Engineering, 2020, , 49-60.	0.3	1
5726	From Natural and Artificial Intelligence to Superintelligence?. Technik Im Fokus, 2020, , 183-241.	0.2	1
5727	Innovative Hardware-Based Cybersecurity Solutions. Studies in Systems, Decision and Control, 2020, , 283-299.	0.8	4
5729	Science and Technological Understanding of Nano-ionic Resistive Memories (RRAM). Nanoscience and Nanotechnology - Asia, 2019, 9, 444-461.	0.3	0
5730	Memrist \tilde{A} ¶r tabanl \ddot{A} ± kaotik r \tilde{A} ¶ssler devresi ger \tilde{A} §eklemesi. Journal of the Faculty of Engineering and Architecture of Gazi University, 0, , .	0.3	2
5731	Memristor-based series voltage regulators. Journal of Electrical Engineering, 2019, 70, 465-472.	0.4	1
5732	"MODELING OF ELECTRICAL PROPERTIES IN THE COURSE OF LABORATORY WORKS AT THE UNIVERSITY". Zbìrnik Naukovih Pracʹ Kam'Ā¢necʹ-Podìlʹsʹkogo Nacìonalʹnogo Unìversitetu ìmenì ĀŒvana PedagogìÄna, 2019, 1, 137-139.	Og Ã. ₀ênk	a Særìâ -

#	Article	IF	Citations
5733	A Current-Mode Memristor Emulator Circuit. Lecture Notes in Electrical Engineering, 2020, , 493-501.	0.3	2
5734	Non-Smooth Bifurcation in Two Fractional-Order Memristive Circuits. , 2020, , 325-335.		O
5735	Analog implementation of arithmetic operations on real memristors. , 2020, , .		1
5736	Memristor devices and memristor-based circuits. , 2020, , 103-137.		O
5737	ASSOCIATIVE MEMORY BASED ON CELLULAR NEURAL NETWORKS WITH BIPOLAR STEPWISE ACTIVATION FUNCTION. Prikladnaya Diskretnaya Matematika, 2020, , 100-108.	0.1	0
5738	Cupper doping effect on the electrical characteristics of TiO2 based Memristor. Brilliant Engineering, 2020, 2, 19-24.	0.3	0
5739	Memristör Tabanlı Filtre Tasarımı ve ECG Sinyali için Uygulanması. Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, 2020, 9, 756-765.	0.1	1
5740	SPICE Model of Current Polarity-Dependent Piecewise Linear Window Function for Memristors. Gazi University Journal of Science, 2020, 33, 766-777.	0.6	3
5742	Temperature driven memristive switching in Al/TiO2/Al devices. , 2020, , .		0
5743	Designing Memristor-Based Timing Circuits and Performance Comparison with CMOS Counterparts. Smart Innovation, Systems and Technologies, 2021, , 269-279.	0.5	0
5744	Network-based synchronous control of memristive neural networks with denial of service attacks. , 2020, , .		0
5745	Memristor structure with the effect of switching resistance based on silicon nitride thin layers. , 2020, 64, 403-410.	0.0	0
5746	The Impact of the Different Voltages and Frequencies on Resistivity of the TiO2-based Memristors with 3D Observation in MATLAB. European Journal of Science and Technology, 0, , .	0.5	0
5747	Reinforcement learning in synthetic gene circuits. Biochemical Society Transactions, 2020, 48, 1637-1643.	1.6	5
5748	Ge quantum wire memristor. Nanotechnology, 2020, 31, 445204.	1.3	2
5749	Adaptive Synchronization of Fractional-Order Delayed Memristive Neural Networks. Studies in Systems, Decision and Control, 2021, , 291-312.	0.8	0
5751	Stored Energy and the Charging Energy Efficiency in a Memcapacitor Circuit., 0,,.		1
5752	Multilevel memristive non-volatile look-up table using two transmission gates one memristor memory cells. Semiconductor Science and Technology, 2020, 35, 105019.	1.0	5

#	Article	IF	Citations
5753	Generic and Practical Emulators for the Current-Controlled Memristor Models., 2021, , 19-35.		0
5754	Broken symmetry and dynamics of a memristive diodes bridge-based Shinriki oscillator. Physica A: Statistical Mechanics and Its Applications, 2021, 588, 126562.	1.2	9
5755	Fixed-time synchronization of memristor chaotic systems via a new extended high-gain observer. European Journal of Control, 2022, 63, 164-175.	1.6	7
5756	Pulse Programming of Resistive States of BTBTâ€Based Organic Memristive Device with High Endurance. Physica Status Solidi - Rapid Research Letters, 0, , 2100471.	1.2	2
5757	FPGA Implementation of Threshold-Type Binary Memristor and Its Application in Logic Circuit Design. Micromachines, 2021, 12, 1344.	1.4	3
5758	In-Memory Computing on Resistive RAM Systems Using Majority Operation. Journal of Circuits, Systems and Computers, 2022, 31, .	1.0	4
5759	Fixed-time dual-channel event-triggered secure quasi-synchronization of coupled memristive neural networks. Journal of the Franklin Institute, 2021, 358, 10052-10078.	1.9	11
5760	Sensitivity of HfO2-based RRAM Cells to Laser Irradiation. Microprocessors and Microsystems, 2021, , 104376.	1.8	3
5761	Towards the Analogy of Electrostatic and Electromagnetic Transducers. IFAC-PapersOnLine, 2020, 53, 8941-8946.	0.5	1
5762	Design and verification of novel silicon-controlled-rectifier-memristor based on standard CMOS process. Semiconductor Science and Technology, 2020, 36, 015003.	1.0	0
5763	Mitigation of Speed Deviation of DC Motor Using Memristic Model Predictive Controller. , 2020, , .		0
5764	Realization of Metamutator using Dual Output Operational Transconductance Amplifier. , 2020, , .		2
5765	Symmetric Function Based Memristive Polimino PUF with Enhanced Security. , 2020, , .		2
5766	Binary decision diagramâ€based synthesis technique for improved mapping of Boolean functions inside memristive crossbarâ€slices. IET Computers and Digital Techniques, 2021, 15, 112-124.	0.9	0
5767	Dynamic mode of the mathematical model of an electric multipole with memresistive branches in conditions of interval uncertainty. IOP Conference Series: Materials Science and Engineering, 0, 976, 012013.	0.3	1
5768	Al technology for remote clinical assessment and monitoring. Journal of Wound Care, 2020, 29, 692-706.	0.5	16
5769	Global Stability Criterion of Memristor-Based Recurrent Neural Networks with Time Delays., 2020,,.		0
5771	Development of mathematical model and circuit emulators for four lobe memristive behaviour. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2021, 40, 51-61.	0.5	0

#	Article	IF	CITATIONS
5772	Devising a method of figurative transformations for minimizing boolean functions in the implicative basis. Eastern-European Journal of Enterprise Technologies, 2020, 6, 32-47.	0.3	0
5773	Mode of "small" signal of the mathematical model of an electric multipole with memresistive branches under conditions of interval uncertainty. IOP Conference Series: Materials Science and Engineering, 0, 976, 012011.	0.3	O
5774	Intelligent RF Circuits and Systems with Memory Elements. , 2020, , .		1
5775	Fractional-order Memristor Emulator with Multiple Pinched Points. , 2020, , .		4
5776	On Series Connections of Fractional-Order Elements and Memristive Elements. , 2020, , .		0
5777	Finite-time synchronization of delayed fractional-order quaternion-valued memristor-based neural networks. International Journal of Modern Physics B, 2021, 35, 2150032.	1.0	5
5778	Sustained Chaos State and Coexisting Attractors in a Memristive System. , 2020, , .		0
5779	Complex dynamics of a bi-directional N-type locally-active memristor. Communications in Nonlinear Science and Numerical Simulation, 2022, 105, 106086.	1.7	4
5780	A Fully Integrated Tunable Memristor Emulator Circuit. Lecture Notes in Electrical Engineering, 2020, , 553-560.	0.3	0
5781	Firing Pattern Analysis and Circuit Implementation of Morris-Lecar Neuron Model with Memristor. Open Journal of Circuits and Systems, 2020, 09, 61-77.	0.2	0
5782	QuantBayes: Weight Optimization for Memristive Neural Networks via Quantization-Aware Bayesian Inference. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 4851-4861.	3 . 5	9
5783	Integrability and bifurcation of a three-dimensional circuit differential system. Discrete and Continuous Dynamical Systems - Series B, 2021, .	0.5	0
5785	Simulation of information decoding processes in the output device of the biomorphic neuroprocessor. Tyumen State University Herald Physical and Mathematical Modeling Oil Gas Energy, 2020, 6, 179-193.	0.0	2
5787	Memristive and magnetoresistance effects of SnSe ₂ . Wuli Xuebao/Acta Physica Sinica, 2020, 69, 117301.	0.2	0
5790	Quantum Dot Interfaces for Memristor. Lecture Notes in Nanoscale Science and Technology, 2020, , 253-313.	0.4	0
5791	Memristor, der Speicherwiderstand. , 2020, , 165-195.		0
5792	Threshold Method for Control of Chaotic Oscillations. Springer Proceedings in Complexity, 2020, , 217-229.	0.2	3
5794	Nonlinear dynamic approach to the analysis of memristor parameters instability. Izvestiya Vysshikh Uchebnykh Zavedenii Materialy Elektronnoi Tekhniki = Materials of Electronics Engineering, 2020, 22, 253-261.	0.1	2

#	ARTICLE	IF	CITATIONS
5795	Memristör Temelli 2. Dereceden Aktif Yþksek Geçiren Filtrenin İncelenmesi. Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, 2020, 9, 446-456.	0.1	1
5796	Design Flow for Hybrid CMOS/Memristor Systems—Part II: Circuit Schematics and Layout. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 4876-4888.	3.5	2
5797	Design Flow for Hybrid CMOS/Memristor Systemsâ€"Part I: Modeling and Verification Steps. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 4862-4875.	3.5	9
5798	FCS Based Memcapacitor Emulator Circuit. Journal of the Institute of Science and Technology, 0, , 112-117.	0.3	3
5799	Fe+ İyonu Aşılanmış TiO2 Tek Kristallerin Manyetik Özelliklerinin İncelenmesi. Bitlis Eren Üniversitesi Bilimleri Dergisi, 2020, 9, 50-59.	Fen 6.1	0
5800	Towards Synaptic Behavior of Nanoscale ReRAM Devices for Neuromorphic Computing Applications. ACM Journal on Emerging Technologies in Computing Systems, 2020, 16, 1-18.	1.8	13
5801	Proposal of disruptive computing (A computing-domain-oriented approach). Japanese Journal of Applied Physics, 2020, 59, 050503.	0.8	2
5802	Nonvolatile Memory Cell Based on Memristor. Universal Journal of Electrical and Electronic Engineering, 2020, 7, 110-117.	0.3	1
5803	Pattern Formation in a RD-MCNN with Locally Active Memristors., 0, , .		1
5804	The Effects of Conductance on Metastable Switches in Memristive Devices Based on Anti-Hebbian and Hebbian (AHaH) Learning Rules. Iraqi Journal of Science, 0, , 3724-3732.	0.3	O
5805	Modeling of Memristors under Periodic Signals of Different Parameters. Energies, 2021, 14, 7264.	1.6	3
5806	Compact Charge-Controlled Memristance Simulator with Electronic/Resistive Tunability. Journal of Circuits, Systems and Computers, 0, , .	1.0	3
5807	A three-port switch NMR laser chaotic system with memristor and its circuit implementation. European Physical Journal Plus, 2021, 136, 1.	1.2	4
5808	Reconfigurable nonvolatile boolean logic with one-transistor-two-memristor for in-memory computing. Semiconductor Science and Technology, 0, , .	1.0	1
5809	Electrically and Optically Controllable pâ€"n Junction Memtransistor Based on an Al ₂ O ₃ Encapsulated 2D Te/ReS ₂ van der Waals Heterostructure. Small Methods, 2021, 5, e2101303.	4.6	19
5810	Ultrathin Anion Conductors Based Memristor. Advanced Electronic Materials, 2022, 8, 2100845.	2.6	10
5811	In-memory computing with emerging nonvolatile memory devices. Science China Information Sciences, 2021, 64, 1.	2.7	31
5812	Dissipativity and synchronization control of quaternion-valued fuzzy memristive neural networks: Lexicographical order method. Fuzzy Sets and Systems, 2022, 443, 70-89.	1.6	7

#	Article	IF	CITATIONS
5813	Implementation of a memristor-based 4D chaotic oscillator and its nonlinear control. Analog Integrated Circuits and Signal Processing, 2022, 110, 91-104.	0.9	11
5814	Lévy noise effects on Josephson junctions. Chaos, Solitons and Fractals, 2021, 153, 111531.	2.5	16
5815	Efficient Error-Correcting-Code Mechanism for High-Throughput Memristive Processing-in-Memory., 2021,,.		3
5816	Global Ultimate Mittag-Leffler Lag Quasi-Synchronization of Delayed Fractional-Order Memristive Neural Networks with Switching Jumps Mismatch via Pinning Control. , 2020, , .		2
5817	Write Back Energy Optimization for STT-MRAM-based Last-level Cache with Data Pattern Characterization. ACM Journal on Emerging Technologies in Computing Systems, 2020, 16, 1-18.	1.8	4
5818	Memristor Based Neuromorphic Adaptive Resonance Theory for One-Shot Online Learning and Network Intrusion Detection. , 2020, , .		1
5819	Interstice: Inverter-Based Memristive Neural Networks Discretization for Function Approximation Applications. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2020, 28, 1578-1588.	2.1	9
5820	An Advanced Architecture of a Massive Parallel Processing Nano Brain Operating 100 Billion Molecular Neurons Simultaneously., 0,, 1588-1620.		0
5821	Low Power Strategies for beyond Moore's Law Era. Advances in Computer and Electrical Engineering Book Series, 0, , 27-47.	0.2	0
5822	An Advanced Architecture of a Massive Parallel Processing Nano Brain Operating 100 Billion Molecular Neurons Simultaneously., 0,, 43-73.		1
5823	Frequency Sweep and Width Optimization of Memos-Based Digital Logic Gates. Algorithms for Intelligent Systems, 2021, , 77-83.	0.5	0
5824	Memristor Theory and Concepts. , 2021, , 1-8.		0
5825	Memristor Models and Emulators: A Literature Review. , 2021, , 9-18.		0
5827	Floating memristor and inverse memristor emulation configurations with electronic/resistance controllability. IET Circuits, Devices and Systems, 2020, 14, 1065-1076.	0.9	12
5828	New finite-time synchronization analysis of a delayed memristive neurodynamic model. Advances in Difference Equations, 2020, 2020, .	3.5	0
5830	Extended Memristor Devices. , 2021, , 373-386.		O
5833	Memristive Behaviour of Ag-doped-HfO ₂ Thin Films Prepared by Magnetron Sputtering. Journal of Physics: Conference Series, 2020, 1637, 012024.	0.3	0
5834	Cryptography with Analog Scheme Using Memristors. ACM Journal on Emerging Technologies in Computing Systems, 2020, 16, 1-30.	1.8	8

#	Article	IF	CITATIONS
5835	A forming-free ReRAM cell with low operating voltage. IEICE Electronics Express, 2020, 17, 20200343-20200343.	0.3	9
5836	Complex Systems, Nonlinear Dynamics, and Local Activity Principle. , 2021, , 339-353.		0
5837	Surface Coordination Nanochemistry Based on Functional Metal Complexes. Bulletin of Japan Society of Coordination Chemistry, 2020, 76, 5-20.	0.1	0
5839	Spots Concept for Problems of Artificial Intelligence and Algorithms of Neuromorphic Systems. Russian Microelectronics, 2020, 49, 431-444.	0.1	4
5840	Second Generation Current Conveyor Based Floating Fractional Order Memristance Simulator and a New Dynamical System. Cybernetics and Information Technologies, 2020, 20, 68-80.	0.4	1
5841	Nonvolatile Resistive Switching of Mn3O4 Thin Films for Flexible Electronics Applications. Nanoscience and Nanotechnology - Asia, 2020, 10, 622-630.	0.3	1
5842	Memristor Crossbar Arrays Performing Quantum Algorithms. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 552-563.	3.5	9
5843	Design and implementation of four-color conjecture circuit based on memristor neural network. AEU - International Journal of Electronics and Communications, 2022, 144, 154041.	1.7	2
5844	Realization of Memristor Based Dynamic Logic Circuits. , 2021, , .		0
5845	Reduced-order state estimation of delayed memristive neural networks. , 2021, , .		0
5846	Solving sparse linear systems with approximate inverse preconditioners on analog devices. , 2021, , .		3
5847	A Neural Synapse Based on Ta2O5 Memristor. , 2021, , .		0
5848	Simulation Analysis of XOR Gates Implemented with a Memristor-Based Neural Network. , 2021, , .		1
5849	Random time delay analysis of Nb ₂ O ₅ and OTS memristors., 2021,,.		1
5850	Memristive Oscillatory Networks for Computing: The Chemical Wave Propagation Paradigm. , 2021, , .		5
5851	Design of Memristor Based Logic Gates for Low Power Wireless Sensors in Biomedical Applications. , 2021, , .		1
5852	Parameter estimation of fractional-order memristor-based chaotic systems using state transition algorithm., 2021,,.		0
5853	Multistability of Memristor-Based Impulsive Neural Networks With Time-Varying Delays. , 2021, , .		O

#	Article	IF	Citations
5854	Finite-horizon H_{infty} State Estimation for Discrete-Time Memristive Neural Networks with Time-Varying Delays and Fading Channels: A Dynamic Event-Triggered Approach., 2021,,.		О
5855	Design of target suppression and feature recognition circuit based on memristor., 2021,,.		0
5856	Finite-time synchronization of memristive neural networks via quantized intermittent control. , 2021, , .		0
5857	Memristive Network-based Artificial Fish Swarm Algorithm. , 2021, , .		0
5858	Harmonic Distortion of RC-Filters Based on Memristors. , 2021, , .		0
5859	Current-Mode Multiplier Accumulator Design using a Memristor-Transistor Crossbar Architecture. , 2021, , .		0
5860	Exponential Stability of Stochastic Dynamic Memristor Delayed Cellular Neural Networks in the Flux-Charge Domain. , $2021, $, .		0
5861	Fixed-/Preassigned-Time Stabilization of Memristive Neural Networks with Discontinuous Activations. , 2021, , .		0
5862	An associative memory circuit based on physical memristors. Neurocomputing, 2022, 472, 12-23.	3 . 5	42
5863	Miniaturizing neural networks for charge state autotuning in quantum dots. Machine Learning: Science and Technology, 2022, 3, 015001.	2.4	7
5864	Nanoscale neuromorphic networks and criticality: a perspective. Journal of Physics Complexity, 2021, 2, 042001.	0.9	16
5865	A new simple chaotic circuit based on memristor and meminductor. European Physical Journal Plus, 2021, 136, 1.	1.2	8
5866	Transient Chaos, Synchronization and Digital Image Enhancement Technique Based on a Novel 5D Fractional-Order Hyperchaotic Memristive System. Circuits, Systems, and Signal Processing, 2022, 41, 2266-2289.	1.2	17
5867	Double memristors series hyperchaotic system with attractive coexistence and its circuit implementation. European Physical Journal: Special Topics, 2021, 230, 3901-3912.	1.2	2
5868	New Multiplier-Less Compact Tunable Charge-Controlled Memelement Emulator Using Grounded Passive Elements. Circuits, Systems, and Signal Processing, 2022, 41, 2429-2465.	1.2	14
5869	Enhanced Memristive Performance of Double Perovskite Cs ₂ AgBiBr _{6â€∢i>x} Cl _{<i>x</i>} Devices by Chloride Doping. ChemPlusChem, 2021, 86, 1530-1536.	1.3	6
5870	Halide Perovskites for Resistive Switching Memory. Journal of Physical Chemistry Letters, 2021, 12, 11673-11682.	2.1	47
5871	Spatiotemporal evolution of resistance state in simulated memristive networks. Applied Physics Letters, 2021, 119, 193502.	1.5	3

#	Article	IF	CITATIONS
5872	Charge-Driven Transtive Devices via Electric Field Control of Magnetism in a Helimagnet. Physical Review Applied, $2021,16,.$	1.5	0
5873	Memristor-based multi-synaptic spiking neuron circuit for spiking neural network. Chinese Physics B, 2022, 31, 040702.	0.7	6
5874	Switching characteristic of fabricated nonvolatile bipolar resistive switching memory (ReRAM) using PEDOT: PSS/GO. Solid-State Electronics, 2022, 188, 108208.	0.8	11
5875	Resistive Memory Devices Based on Reticular Materials for Electrical Information Storage. ACS Applied Materials & Devices Based on Reticular Materials for Electrical Information Storage. ACS Applied Materials & Devices Based on Reticular Materials for Electrical Information Storage. ACS Applied Materials & Devices Based on Reticular Materials for Electrical Information Storage. ACS Applied Materials & Devices Based on Reticular Materials for Electrical Information Storage. ACS Applied Materials & Devices Based on Reticular Materials for Electrical Information Storage. ACS Applied Materials & Devices Based on Reticular Materials for Electrical Information Storage. ACS Applied Materials & Devices Based on Reticular Materials & Devices Based on Reticul	4.0	19
5876	Progress and Challenges for Memtransistors in Neuromorphic Circuits and Systems. Advanced Materials, 2022, 34, e2108025.	11.1	40
5877	Reliable analog resistive switching behaviors achieved using memristive devices in AlO _x /HfO _x bilayer structure for neuromorphic systems. Semiconductor Science and Technology, 2022, 37, 035018.	1.0	6
5878	Recent Advances in Halide Perovskite-Based Nonvolatile Resistive Random-Access Memory. Journal of Electronic Materials, 2022, 51, 434-446.	1.0	5
5879	Torus breakdown in a two-stroke relaxation memristor. Chaos, Solitons and Fractals, 2021, 153, 111594.	2.5	3
5880	Finite-/Fixed-Time Synchronization of Memristor Chaotic Systems and Image Encryption Application. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 4957-4969.	3. 5	53
5881	A Double-Memristor Hyperchaotic Oscillator With Complete Amplitude Control. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 4935-4944.	3.5	32
5882	Bifurcations underlying different excitability transitions modulated by excitatory and inhibitory memristor and chemical autapses. Chaos, Solitons and Fractals, 2021, 153, 111611.	2.5	18
5883	New class of fractal elements with log-periodic corrections: Confirmation on experimental data. Chaos, Solitons and Fractals, 2021, 153, 111519.	2.5	0
5884	DC-offset induced asymmetry in memristive diode-bridge-based Shinriki oscillator. Chaos, Solitons and Fractals, 2022, 154, 111624.	2.5	27
5885	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.	3.5	30
5886	Storing information electrically in human skin. Journal of Electrical Bioimpedance, 2021, 12, 73-81.	0.5	1
5887	Memristor modeling: challenges in theories, simulations, and device variability. Journal of Materials Chemistry C, 2021, 9, 16859-16884.	2.7	89
5888	A Survey of Memristors and Its Applications. Advances in Intelligent Systems and Computing, 2021, , 403-428.	0.5	0
5889	A Dynamic System Approach to Spiking Second Order Memristor Networks. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 1641-1654.	3.5	1

#	ARTICLE	IF	CITATIONS
5890	A Compact Modeling Methodology for Experimental Memristive Devices. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2022, 41, 4851-4861.	1.9	1
5891	Mode-Dependent Adaptive Event-Triggered Control for Stabilization of Markovian Memristor-Based Reaction–Diffusion Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 3939-3951.	7.2	7
5894	COMPACT: Flow-Based Computing on Nanoscale Crossbars With Minimal Semiperimeter and Maximum Dimension. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2022, 41, 4600-4611.	1.9	O
5895	Complex Frequency Domain Analysis of Memristor Based on Volterra Series. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2021, , .	0.2	0
5897	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.	3.5	8
5898	Polymerâ€Based Composites for Engineering Organic Memristive Devices. Advanced Electronic Materials, 0, , 2101192.	2.6	2
5899	Memcapacitor emulator using VDTA-memristor. Analog Integrated Circuits and Signal Processing, 2022, 110, 361-370.	0.9	4
5900	A Simplified Tantalum Oxide Memristor Model, Parameters Estimation and Application in Memory Crossbars. Technologies, 2022, 10, 6.	3.0	4
5901	1S-1R array: Pure-memristor circuit for binary neural networks. Microelectronic Engineering, 2022, 254, 111697.	1.1	2
5902	Hamiltonian energy computation of a novel memristive mega-stable oscillator (MMO) with dissipative, conservative and repelled dynamics. Chaos, Solitons and Fractals, 2022, 155, 111765.	2.5	6
5903	Modeling and simulating in-memory memristive deep learning systems: An overview of current efforts. Array, 2022, 13, 100116.	2.5	10
5904	Transmission Matrices for Physical-System Modeling [Lecture Notes]. IEEE Control Systems, 2019, 39, 88-109.	1.0	O
5905	Post-Binary Robotics: Using Memristors With Ternary States for Robotics Control. , 2020, , .		0
5906	Potential of Memristors in Medical Image Processing and Concerns in the Clinical Context. , 2020, , .		0
5907	Application of graphene oxide memristor in Chua's chaotic circuit., 2020,,.		0
5908	Functionalizing of the scaling parameter to describe subthreshold leakage phenomenon in titanium dioxide memristor., 2020,,.		O
5909	A Review of Resistor Switching Devices for Memory and Neuromorphic Computing Applications. International Journal of Nano Studies & Technology, 0, , 135-139.	0.0	0
5910	Cycle-to-cycle Variation Enabled Energy Efficient Privacy Preserving Technology in ANN., 2020,,.		3

#	Article	IF	Citations
5911	Microstrip Memristive Switch and Its Applications to RF Devices. , 2020, , .		1
5912	Optimized cell structures for memristor-based content addressable memories. , 2020, , .		2
5913	Memristive Switch for Intelligent RF Applications. , 2020, , .		1
5914	Empirical Temperature Model of Self-Directed Channel Memristor. , 2020, , .		2
5915	Memristor Based Neuromorphic Network Security System Capable of Online Incremental Learning and Anomaly Detection., 2020,,.		1
5916	A Lightweight Reconfigurable RRAM-based PUF for Highly Secure Applications. , 2020, , .		4
5917	Sensing with Memristive Complementary Resistive Switch: Modelling and Simulations. , 2020, , .		1
5918	Design of Memristic Controller for Automatic Generation Control. , 2020, , .		0
5919	X-Controlled Memristive Devices for Automatic Gain Control in RC Oscillators. , 2020, , .		0
5920	Analog Signal Processing for Fiber Optic Sensor Detecting Temperature Changes. , 2020, , .		2
5921	A switching control for finite-time synchronization of memristor-based BAM neural networks with stochastic disturbances. Nonlinear Analysis: Modelling and Control, 2020, 25, 958-979.	1.1	10
5922	uMemristorToolbox: Open source framework to control memristors in Unity for ternary applications. , 2020, , .		1
5923	Single VDTA Based Grounded Memristor Model and Its Applications. , 2020, , .		2
5924	Modified Dropout and Maxout based on the MNN for improving accuracy. , 2020, , .		1
5925	A Memristor-based Quaternary Memory with Adaptive Noise Tolerance. , 2020, , .		0
5926	A four-dimensional memristor chaotic system based on Colpitts oscillator. , 2020, , .		0
5928	Memristor-Based Neural Network Circuit of Delay and Simultaneous Conditioning. IEEE Access, 2021, 9, 148933-148947.	2.6	5
5929	On Ghost Attractor in Blinking Chaotic MVD Memristor-Based Circuit and its Application. IEEE Access, 2021, 9, 168026-168041.	2.6	2

#	Article	IF	CITATIONS
5931	THERMOPHYSICAL MODEL OF A MEMRISTOR-DIODE MICROCHIP. Tyumen State University Herald Physical and Mathematical Modeling Oil Gas Energy, 2021, 7, 62-78.	0.0	0
5932	Memristor Crossbar Circuits for Neuromorphic pattern Recognition. , 2021, , .		1
5933	CMOS Transistor-Based Memristor Emulator Circuit Design for High Frequency Applications. , 2021, , .		1
5934	Memristor-Based Neural Network Circuit of Long-term Memory. , 2021, , .		1
5935	A Read and Write Method for Forgetting Memristor Crossbar Array with Long-term and Short-term Memory. , 2021, , .		1
5936	Investigation of Power Consumption Effect of Various Memristor Emulators on a Logic Gate. European Journal of Technic, 0, , .	0.2	1
5937	Improved Neural Network Crawler with Information Entropy and Memristor Model., 2021,,.		0
5938	Validating a DFT Strategy's Detection Capability regarding Emerging Faults in RRAMs. , 2021, , .		4
5939	Circuits Based on the Memristor for Fundamental Operations. , 2021, , .		4
5940	Evaluating the Impact of Process Variation on RRAMs. , 2021, , .		4
5941	Soft and flexible: core-shell ionic liquid resistive memory for electronic synapses. Microsystems and Nanoengineering, 2021, 7, 78.	3.4	15
5942	Locally Fixed-Time Stabilization and \$H_{infty}\$ Control for Memristive Port-Controlled Hamiltonian Systems., 2021,,.		0
5943	Scalable Synthesis of 3-D Crossbars for Flow-based Computing. , 2021, , .		0
5944	A Novel Fully Floating Memristor Emulator Using OTA and Passive Elements. , 2021, , .		2
5945	Design Consideration of Meminductor Emulator Circuit. , 2021, , .		0
5946	Making Memristive Processing-in-Memory Reliable. , 2021, , .		1
5947	Design of a Multi-State Memristive Memory. , 2021, , .		6
5948	Methodology for Hardware-in-the-Loop Simulation of Memristive Neuromorphic Systems. Nanobiotechnology Reports, 2021, 16, 782-789.	0.2	4

#	Article	IF	CITATIONS
5949	Pulse coding off-chip learning algorithm for memristive artificial neural network. Chinese Physics B, 2022, 31, 078702.	0.7	1
5950	Nanoscale-Resistive Switching in Forming-Free Zinc Oxide Memristive Structures. Nanomaterials, 2022, 12, 455.	1.9	11
5951	Finite time synchronization of discontinuous fractional order Cohen–Grossberg memristive neural networks with discrete delays under sliding mode control strategies. , 2022, , 213-248.		0
5952	Simulink modeling and dynamic characteristics of discrete memristor chaotic system. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 030501.	0.2	14
5953	Multi-level operation in VO2-based resistive switching devices. AIP Advances, 2022, 12, .	0.6	15
5954	Synchronization and Quasi-Synchronization of Delayed Fractional Coupled Memristive Neural Networks. Neural Processing Letters, 2022, 54, 1647-1662.	2.0	7
5955	Revisiting syntheses of Fe ₃ O ₄ nanoparticles in water and lower alcohols and their resistive switching properties. Journal of Materials Chemistry C, 2021, 10, 251-264.	2.7	3
5956	Compact Model for Bipolar and Multilevel Resistive Switching in Metal-Oxide Memristors. Micromachines, 2022, 13, 98.	1.4	5
5957	Design and implementation of XOR logic circuit based on generalized memristor. European Physical Journal: Special Topics, 2022, 231, 481-491.	1.2	7
5958	Memristor Parallel Computing for a Matrix-Friendly Genetic Algorithm. IEEE Transactions on Evolutionary Computation, 2022, 26, 901-910.	7.5	4
5959	Design and FPGA implementation of a memristor-based multi-scroll hyperchaotic system. Chinese Physics B, 2022, 31, 070505.	0.7	14
5960	2022 roadmap on neuromorphic computing and engineering. Neuromorphic Computing and Engineering, 2022, 2, 022501.	2.8	217
5961	Ultrafast and stable phase transition realized in MoTe ₂ -based memristive devices. Materials Horizons, 2022, 9, 1036-1044.	6.4	9
5962	Multifunctional n-ZnO/MoO3/PEDOT:PSS-based hybrid device for high-speed UV light detection and ReRAM applications. Journal of Materials Science: Materials in Electronics, 2022, 33, 2090.	1.1	2
5963	Memristor-based time-delay hyperchaotic system with circuit simulation and image encryption. Physica Scripta, 2022, 97, 035204.	1.2	9
5964	A memristive system and its applications in red–blue 3D glasses and image encryption algorithm with DNA variation. Nonlinear Dynamics, 2022, 107, 2911-2933.	2.7	28
5965	Electronically Adjustable Grounded Memcapacitor Emulator Based on Single Active Component with Variable Switching Mechanism. Electronics (Switzerland), 2022, 11, 161.	1.8	5
5966	New Meminductor Emulators Using Single Operational Amplifier and Their Application. Circuits, Systems, and Signal Processing, 2022, 41, 2322-2337.	1.2	9

#	Article	IF	CITATIONS
5967	MSL-MNN: image deraining based on multi-scale lightweight memristive neural network. Neural Computing and Applications, 2022, 34, 7299-7309.	3.2	4
5968	A survey on memristor active emulation circuits in the fractional-order domain., 2022,, 375-410.		1
5969	Exponential synchronization control of delayed memristive neural network based on canonical Bessel-Legendre inequality. AIMS Mathematics, 2022, 7, 4711-4734.	0.7	0
5970	Electronic simulation and microcontroller real implementation of an autonomous chaotic and hyperchaotic system made of a Colpitts-Josephson junction like circuit. Analog Integrated Circuits and Signal Processing, 2022, 110, 395-407.	0.9	4
5971	A New Memristive Neuron Map Model and Its Network's Dynamics under Electrochemical Coupling. Electronics (Switzerland), 2022, 11, 153.	1.8	30
5972	Shell induced optoelectronic characteristics of chemically synthesized PbO/ZnO core/shell nanocomposites for memcapacitive application. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 139, 115157.	1.3	4
5973	A Color Image Encryption Using One Quaternion-Valued Neural Network. SSRN Electronic Journal, 0, ,	0.4	0
5974	SPICE Study of STDP Characteristics in a Drift and Diffusive Memristor-Based Synapse for Neuromorphic Computing. IEEE Access, 2022, 10, 6381-6392.	2.6	1
5975	Improved Results on Finite-Time Passivity and Synchronization Problem for Fractional-Order Memristor-Based Competitive Neural Networks: Interval Matrix Approach. Fractal and Fractional, 2022, 6, 36.	1.6	10
5976	New grounded passive elements-based external multiplier-less memelement emulator to realize the floating meminductor and memristor. Analog Integrated Circuits and Signal Processing, 2022, 110, 409-429.	0.9	13
5977	Coherence Resonance Behavior of FitzHugh-Nagumo Neurons Induced by Electromagnetic Field Driven by Phase Noise. Discrete Dynamics in Nature and Society, 2022, 2022, 1-18.	0.5	1
5978	Effects of memristive autapse under field coupling on transition of collective dynamics in neural hypernetworks. Chinese Journal of Physics, 2022, 77, 1-9.	2.0	4
5979	High-uniformity Memristor Arrays Based on Two-dimensional MoTe ₂ for Neuromorphic Computing. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2022, 37, 795.	0.6	6
5980	Memristive Structure-Based Chaotic System for PRNG. Symmetry, 2022, 14, 68.	1.1	10
5981	A locally active discrete memristor model and its application in a hyperchaotic map. Nonlinear Dynamics, 2022, 107, 2935-2949.	2.7	66
5982	Full-Circuit Implementation of Transformer Network Based on Memristor. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 1395-1407.	3.5	17
5983	The fourth fundamental circuit element: principle and applications. Journal Physics D: Applied Physics, 0, , .	1.3	1
5984	An Efficient PWL Memristor Model With MMSE Parameter Fitting. IEEE Transactions on Electron Devices, 2022, 69, 1545-1552.	1.6	1

#	ARTICLE	IF	Citations
5985	A Survey of Near-Data Processing Architectures for Neural Networks. Machine Learning and Knowledge Extraction, 2022, 4, 66-102.	3.2	2
5986	MemChar: Portable Low-Power and Low-Cost Characterization Tool for Memristor Devices. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	2.4	4
5987	Oscillatory Circuits With a Real Non-Volatile Stanford Memristor Model. IEEE Access, 2022, 10, 13650-13662.	2.6	8
5988	Feedback Control for Passivity of Memristor-Based Multiple Weighted Coupled Neural Networks. Discrete Dynamics in Nature and Society, 2022, 2022, 1-9.	0.5	O
5989	Analysis and implementation of a meminductor-based colpitts sinusoidal oscillator. Chaos, Solitons and Fractals, 2022, 156, 111814.	2.5	5
5990	Early Design Space Exploration Framework for Memristive Crossbar Arrays. ACM Journal on Emerging Technologies in Computing Systems, 2022, 18, 1-26.	1.8	1
5991	Cluster output synchronization for memristive neural networks. Information Sciences, 2022, 589, 459-477.	4.0	29
5992	Solid state ionics – Selected topics and new directions. Progress in Materials Science, 2022, 126, 100921.	16.0	39
5993	Level Scaling and Pulse Regulating to Mitigate the Impact of the Cycle-to-Cycle Variation in Memristor-Based Edge AI System. IEEE Transactions on Electron Devices, 2022, 69, 1752-1762.	1.6	9
5994	Design and Analysis of Multiscroll Memristive Hopfield Neural Network With Adjustable Memductance and Application to Image Encryption. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 7824-7837.	7.2	80
5996	Understanding of the Volatile and Nonvolatile Switching in Ag-Based Memristors. IEEE Transactions on Electron Devices, 2022, 69, 1034-1040.	1.6	13
5997	A Brain-Inspired In-Memory Computing System for Neuronal Communication via Memristive Circuits. IEEE Communications Magazine, 2022, 60, 100-106.	4.9	32
5998	Obtaining Fuzzy Membership Function of Clusters With the Memristor Hardware Implementation and On-Chip Learning. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 1008-1025.	3.4	2
5999	Artificial Nociceptor Using Liquid Ionic Memory. Advanced Electronic Materials, 2022, 8, .	2.6	6
6000	Mapping Transformation Enabled High-Performance and Low-Energy Memristor-Based DNNs. Journal of Low Power Electronics and Applications, 2022, 12, 10.	1.3	5
6001	Top electrode dependent resistive switching in M/ZnO/ITO memristors, M = Al, ITO, Cu, and Au. Microelectronics Journal, 2022, 121, 105388.	1.1	17
6002	The dynamics of a memristor-based Rulkov neuron with fractional-order difference. Chinese Physics B, 2022, 31, 060502.	0.7	43
6003	Finite-time reliable sampled-data control for fractional-order memristive neural networks with quantisation. Journal of Experimental and Theoretical Artificial Intelligence, 2023, 35, 109-127.	1.8	2

#	ARTICLE	IF	Citations
6004	Review of applications of 2D materials in memristive neuromorphic circuits. Journal of Materials Science, 2022, 57, 4915-4940.	1.7	13
6005	Memristive Devices Based on Two-Dimensional Transition Metal Chalcogenides for Neuromorphic Computing. Nano-Micro Letters, 2022, 14, 58.	14.4	62
6006	Volatile and Nonvolatile Memristive Devices for Neuromorphic Computing. Advanced Electronic Materials, 2022, 8, .	2.6	94
6007	A tristable locally active memristor and its application in Hopfield neural network. Nonlinear Dynamics, 2022, 108, 1697-1717.	2.7	67
6008	Global exponential stability of memristor based uncertain neural networks with time-varying delays via Lagrange sense. Journal of Experimental and Theoretical Artificial Intelligence, 0, , 1-14.	1.8	0
6009	Memristor-type chaotic mapping. Chaos, 2022, 32, 021104.	1.0	33
6010	Symmetry Breaking-Induced Dynamics for a Fourth-Order Memristor-Based Chaotic Circuit. Circuits, Systems, and Signal Processing, 2022, 41, 3706-3738.	1.2	1
6011	Modeling and Synaptic behaviors of a WOxâ€based Memristor with Oxygen Vacancy Conductive Mechanism. Physica Status Solidi (B): Basic Research, 0, , .	0.7	3
6012	Memristor Equations: Incomplete Physics and Undefined Passivity/Activity., 2022,, 359-366.		0
6013	Physics-based compact modeling of electro-thermal memristors: Negative differential resistance, local activity, and non-local dynamical bifurcations. Applied Physics Reviews, 2022, 9, .	5.5	19
6014	Finite-time and fixed-time synchronization analysis of shunting inhibitory memristive neural networks with time-varying delays. Chaos, Solitons and Fractals, 2022, 156, 111866.	2.5	18
6015	Nanostructured Materials and Architectures for Advanced Optoelectronic Synaptic Devices. Advanced Functional Materials, 2022, 32, .	7.8	45
6017	Recent progress in optoelectronic memristive devices for in-sensor computing. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 148701.	0.2	3
6018	The effect of external stimuli on the performance of memristive oxides. , 2022, , 361-398.		0
6019	MOSFET-Based Memristor for High-Frequency Signal Processing. IEEE Transactions on Electron Devices, 2022, 69, 2248-2255.	1.6	15
6020	Novel charm of 2D materials engineering in memristor: when electronics encounter layered morphology. Nanoscale Horizons, 2022, 7, 480-507.	4.1	40
6021	â€~Stateful' threshold switching for neuromorphic learning. Nanoscale, 2022, 14, 5010-5021.	2.8	3
6022	Interpretable Memristive LSTM Network Design for Probabilistic Residential Load Forecasting. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 2297-2310.	3.5	21

#	Article	IF	CITATIONS
6024	STREAM: Towards READ-based In-Memory Computing for Streaming based Data Processing., 2022,,.		7
6025	Research Progress on Memristor: From Synapses to Computing Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 1845-1857.	3.5	44
6026	An efficient design of a memristor augmented BCD to 7 segment display. AIP Conference Proceedings, 2022, , .	0.3	2
6027	Experimental Evidence for Fruit Memory and Its Applications to Post-harvest Physiology and Technology: An Overview. Progress in Botany Fortschritte Der Botanik, 2022, , 291-314.	0.1	1
6028	Finite-Time and Fixed-Time Synchronization of Delayed Memristive Neural Networks via Adaptive Aperiodically Intermittent Adjustment Strategy. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 8516-8530.	7.2	23
6029	Memristor-Based Hierarchical Attention Network for Multimodal Affective Computing in Mental Health Monitoring. IEEE Consumer Electronics Magazine, 2023, 12, 94-106.	2.3	14
6030	Asynchronous Fault Detection for Memristive Neural Networks With Dwell-Time-Based Communication Protocol. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 9004-9015.	7.2	12
6031	Emulating the short-term plasticity of a biological synapse with a ruthenium complex-based organic mixed ionic–electronic conductor. Materials Advances, 2022, 3, 2827-2837.	2.6	6
6032	Al-Managed Cognitive Radio Digitizers. IEEE Circuits and Systems Magazine, 2022, 22, 10-39.	2.6	4
6033	Optoelectronic neuromorphic devices and their applications. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 148505.	0.2	4
6034	Introduction to non-volatile memory. , 2022, , 1-32.		4
6036	Ubiquitous memristors on-chip in multi-level memory, in-memory computing, data converters, clock generation and signal transmission. , 2022, , 445-463.		0
6037	Memristor-Based Neural Network Circuit of Memory With Emotional Homeostasis. IEEE Nanotechnology Magazine, 2022, 21, 204-212.	1.1	10
6038	Using Self-Heating Resistors as a Case Study for Memristor Compact Modeling. IEEE Journal of the Electron Devices Society, 2022, 10, 466-473.	1.2	2
6039	Ab initio molecular-dynamics simulations of electronic structures and characteristics of Cu/SiO2/Pt memristive stack., 2022, 18, 83-92.		0
6040	Bioâ€Inspired 3D Artificial Neuromorphic Circuits. Advanced Functional Materials, 2022, 32, .	7.8	45
6041	Composite Nanomaterials for Implementation of Promising Memristive Structures. Key Engineering Materials, 0, 910, 703-712.	0.4	0
6042	Formation of a Ti â†' TiO2-graded layer and its effect on the memristive properties of TiOx(/Ti/TiOx) structures. Journal of Materials Science: Materials in Electronics, 2022, 33, 7423-7434.	1.1	1

#	Article	IF	CITATIONS
6043	Extreme Multistability and Its Incremental Integral Reconstruction in a Non-Autonomous Memcapacitive Oscillator. Mathematics, 2022, 10, 754.	1.1	7
6044	Hidden attractors in a class of two-dimensional rational memristive maps with no fixed points. European Physical Journal: Special Topics, 2022, 231, 2173-2182.	1.2	9
6045	A Mathematical analysis: from Memristor to Fracmemristor. Chinese Physics B, O, , .	0.7	2
6046	Sparse CNT networks with implanted AgAu nanoparticles: A novel memristor with short-term memory bordering between diffusive and bipolar switching. PLoS ONE, 2022, 17, e0264846.	1.1	1
6047	A 6D Fractional-Order Memristive Hopfield Neural Network and its Application in Image Encryption. Frontiers in Physics, 2022, 10, .	1.0	29
6048	Finite-time and fixed-time stabilization of multiple memristive neural networks with nonlinear coupling. Cognitive Neurodynamics, 2022, 16, 1471-1483.	2.3	3
6049	Experimental photonic quantum memristor. Nature Photonics, 2022, 16, 318-323.	15.6	62
6050	A floating CCCII and DDCC based memcapacitor circuit with electronically controllable behavior. Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 2022, 15, 93-105.	0.1	0
6051	A novel discrete memristive chaotic map. European Physical Journal Plus, 2022, 137, 1.	1.2	26
6052	A memristive RBF neural network and its application in unsupervised medical image segmentation. European Physical Journal: Special Topics, 2022, 231, 1005-1014.	1.2	2
6053	Lightweight memristive gated recurrent unit networks., 2022,,.		0
6054	From Memristor-Modeled Jerk System to the Nonlinear Systems with Memristor. Symmetry, 2022, 14, 659.	1.1	8
6055	Dynamical Analysis of a Fractional-Order Boost Converter with Fractional-Order Memristive Load. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2022, 32, .	0.7	2
6056	A simple chaotic circuit based on memristor and its analyzation of bifurcation. Analog Integrated Circuits and Signal Processing, 0 , 1 .	0.9	3
6057	Variable range hopping conduction mechanisms in reduced rutile TiO ₂ . Physica Scripta, 2022, 97, 045408.	1.2	1
6058	$\langle i \rangle H \langle i \rangle \langle sub \rangle \hat{a}^* \tilde{z} \langle sub \rangle$ state estimation for memristive neural networks with randomly occurring DoS attacks. Systems Science and Control Engineering, 2022, 10, 154-165.	1.8	50
6059	Soft memtransistor with ion transfer interface. Flexible and Printed Electronics, 2022, 7, 014015.	1.5	1
6060	Memristors go quantum. Nature Photonics, 2022, 16, 265-266.	15.6	2

#	Article	IF	CITATIONS
6061	Molecular ferroelectric/semiconductor interfacial memristors for artificial synapses. Npj Flexible Electronics, 2022, 6, .	5.1	17
6062	Memristorâ€based logic gate and its application in pulse train controlled Buck converter. International Journal of Circuit Theory and Applications, 0, , .	1.3	1
6064	Analytical model of inverse memelement with fractional order kinetic. International Journal of Circuit Theory and Applications, 0 , , .	1.3	3
6065	Chemical Inductor. Journal of the American Chemical Society, 2022, 144, 5996-6009.	6.6	49
6066	A Switched Capacitor Memristor Emulator Using Stochastic Computing. Technologies, 2022, 10, 39.	3.0	2
6067	Memristor compact model with oxygen vacancy concentrations as state variables. Journal of Applied Physics, 2022, 131, .	1.1	11
6068	Neuromorphic Behaviors of the 4-Lobe Chua Corsage Memristor. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2022, 32, .	0.7	5
6069	A novel conservative system with hidden flows evolved from the simplest memristive circuit. Chaos, 2022, 32, 033111.	1.0	8
6070	Carrierâ€selective contacts using metal compounds for crystalline silicon solar cells. Progress in Photovoltaics: Research and Applications, 2023, 31, 380-413.	4.4	33
6071	Memristive and biological synaptic behavior in transition metal dichalcogenide-WS2 nanostructures: A review. Materials Today: Proceedings, 2022, , .	0.9	1
6072	Fast fixed-time sliding mode control for synchronization of chaotic systems with unmodeled dynamics and disturbance; applied to memristor-based oscillator. JVC/Journal of Vibration and Control, 2023, 29, 2129-2143.	1.5	7
6073	Memristor-Based Multiplier and Squarer of Some Numbers of the form 10Âl ± m. Journal of the Institution of Engineers (India): Series B, 2022, 103, 1239-1247.	1.3	1
6074	Memristor-based affective associative memory neural network circuit with emotional gradual processes. Neural Computing and Applications, 2022, 34, 13667-13682.	3.2	29
6075	Design and Implementation of a New Hyperchaotic Memristive Map. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 2331-2335.	2.2	13
6076	Observer-based state estimation for memristive neural networks with time-varying delay. Knowledge-Based Systems, 2022, 246, 108707.	4.0	11
6077	Hodgkin–Huxley equations implies Edge of Chaos Kernel. Japanese Journal of Applied Physics, 2022, 61, SM0805.	0.8	14
6078	3–5ÂGHz FSK-OOK ultra wideband transmitter based on memristive ring oscillator. Analog Integrated Circuits and Signal Processing, 0, , 1.	0.9	0
6079	Temperature-Frequency Study of Germanium Selenide Memristors with a Self-Directed Current-Conducting Channel. Russian Microelectronics, 2022, 51, 59-67.	0.1	1

#	Article	IF	CITATIONS
6080	Enhanced Switching in an Argon Annealed RRAM by Ion Irradiation. ECS Journal of Solid State Science and Technology, $0, , .$	0.9	1
6081	A backpropagation with gradient accumulation algorithm capable of tolerating memristor non-idealities for training memristive neural networks. Neurocomputing, 2022, 494, 89-103.	3.5	4
6082	A Symmetric Novel 8T3R Non-Volatile SRAM Cell for Embedded Applications. Symmetry, 2022, 14, 768.	1.1	15
6083	Solid state ionics for the development of artificial intelligence components. Japanese Journal of Applied Physics, 2022, 61, SM0803.	0.8	6
6084	Design and implementation of a new memristive chaotic system with coexisting attractors and offset boosting behaviors. Indian Journal of Physics, 2022, 96, 4391-4401.	0.9	1
6085	Dynamical memristors for higher-complexity neuromorphic computing. Nature Reviews Materials, 2022, 7, 575-591.	23.3	155
6086	CoMIC: Complementary Memristor based in-memory computing in 3D architecture. Journal of Systems Architecture, 2022, 126, 102480.	2.5	3
6087	A 3D memristive chaotic system with conditional symmetry. Chaos, Solitons and Fractals, 2022, 158, 111992.	2.5	28
6088	Halide perovskite based synaptic devices for neuromorphic systems. Materials Today Physics, 2022, 24, 100667.	2.9	7
6089	Sliding mode control for memristor-based variable-order fractional delayed neural networks. Chinese Journal of Physics, 2022, 77, 572-582.	2.0	5
6090	Finite-time stabilization of memristive neural networks via two-phase method. Neurocomputing, 2022, 491, 24-33.	3.5	5
6091	Integrability analysis of Muthuswamy–Chua–Ginoux system. Physica D: Nonlinear Phenomena, 2022, 434, 133212.	1.3	1
6092	Effects of switching layer morphology on resistive switching behavior: A case study of electrochemically synthesized mixed-phase copper oxide memristive devices. Applied Materials Today, 2022, 27, 101460.	2.3	19
6093	Connectome of memristive nanowire networks through graph theory. Neural Networks, 2022, 150, 137-148.	3.3	19
6094	Collective dynamics of neural network with distance dependent field coupling. Communications in Nonlinear Science and Numerical Simulation, 2022, 110, 106390.	1.7	9
6096	Memristor based Tunable Negative Group Delay Circuit. , 2021, , .		O
6097	An improved memristor emulator with a new shaping function., 2021,,.		0
6098	A novel active inverse memristor emulator with improved low frequency feature., 2021,,.		2

#	Article	IF	CITATIONS
6099	Analysis and circuit implementation of a new fourth-order multi-wing chaotic system based on memristors. , $2021, \ldots$		2
6100	Memristor Based Frequency Switching in Bandpass Filters. , 2021, , .		0
6101	Novel Flexible True Random Number Generator Using Resistive Switching Memory., 2021,,.		0
6102	Modeling of Memcapacitor with Anelastic Dielectric via Two-Port Capacitor., 2021,,.		0
6103	Superconducting Neural Networks: from an Idea to Fundamentals and, Further, to Application. Nanobiotechnology Reports, 2021, 16, 811-820.	0.2	3
6104	Improving Characteristic Parameters of Memristor Based on HfO ₂ Active Layer. IOP Conference Series: Earth and Environmental Science, 2021, 906, 012018.	0.2	0
6105	Advancing in-memory Arithmetic Based on CMOS-integrable Memristive Crossbar Structures. , 2021, 1, 80-89.		0
6106	A Fast Method for Steady-State Memristor Crossbar Array Circuit Simulation. , 2021, , .		0
6107	High-performance software for memristor-based neural network simulation and optimization. , 2021, , .		0
6108	Photomemristor Structures Based on 2D Crystals for Biocompatible Information Sensor Systems. Nanobiotechnology Reports, 2021, 16, 706-721.	0.2	0
6109	Large On/Off and Rectification Ratios, Self-Compliance, High-Uniformity in Pt/Al ₂ O ₃ /TaO _x /Ta Self-Rectifying Memristors., 2021,,.		1
6110	Exploring Physical Synthesis for Circuits based on Emerging Reconfigurable Nanotechnologies. , 2021,		2
6111	Robust Fault-Tolerant Design Based on Checksum and On-Line Testing for Memristor Neural Network. , 2021, , .		0
6112	Memristor ratioed logic crossbarâ€based delay and jumpâ€key flipâ€flops design. International Journal of Circuit Theory and Applications, 2022, 50, 1353-1364.	1.3	3
6114	GERARD: GEneral RApid Resolution of Digital Mazes Using a Memristor Emulator. Physics, 2022, 4, 1-11.	0.5	0
6115	Decision Support System in a Memristor-Based Mobile CIM Architecture Applied on Big Data Computation and Storage. Scientific Programming, 2021, 2021, 1-8.	0.5	0
6116	Lévy noise-induced self-induced stochastic resonance in a memristive neuron. Nonlinear Dynamics, 2022, 107, 2847-2865.	2.7	10
6117	Mechanism and Application of Capacitive-Coupled Memristive Behavior Based on a Biomaterial Developed Memristive Device. ACS Applied Electronic Materials, 2021, 3, 5537-5547.	2.0	7

#	Article	IF	CITATIONS
6118	Structural and Parametric Identification of Knowm Memristors. Nanomaterials, 2022, 12, 63.	1.9	20
6119	Floating Memristor Emulator Using Current Biased OTAs and Single Grounded Capacitance., 2021,,.		1
6120	General decay projective synchronization of memristive competitive neural networks via nonlinear controller. International Journal of Nonlinear Sciences and Numerical Simulation, 2022, 23, 867-878.	0.4	2
6121	Global minimization via classical tunneling assisted by collective force field formation. Science Advances, 2021, 7, eabh1542.	4.7	11
6122	New high frequency memristorless and resistorless meminductor emulators using OTA and CDBA. Sadhana - Academy Proceedings in Engineering Sciences, 2022, 47, 1.	0.8	4
6123	Synchronization Control of Proportional Delayed Memristive Cellular Neural Networks: Robust Analysis Approach., 2021,,.		0
6124	Symmetric Coexisting Attractors in a Novel Memristors-Based Chuas Chaotic System. Journal of Circuits, Systems and Computers, 0, , .	1.0	1
6125	Analysis, computer modelling and LED visualization of the new modified nonlinear logistic map. , 2021,		1
6126	Electroresistance in multipolar antiferroelectric Cu2Se semiconductor. Nature Communications, 2021, 12, 7207.	5.8	7
6127	Memristive System Based Image Processing Technology: A Review and Perspective. Electronics (Switzerland), 2021, 10, 3176.	1.8	6
6128	Siteâ€Specific Regulated Memristors via Electronâ€Beamâ€Induced Functionalization of HfO ₂ . Small, 2022, 18, e2105585.	5.2	10
6129	Local-Activity and Simultaneous Zero-Hopf Bifurcations Leading to Multistability in a Memristive Circuit. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, .	0.7	2
6130	A Chaotic Oscillator Based on Meminductor, Memcapacitor, and Memristor. Complexity, 2021, 2021, 1-16.	0.9	8
6131	Entangled quantum memristors. Physical Review A, 2021, 104, .	1.0	7
6133	Area Efficient Carry Look ahead Adder Based on Memristor Ratioed Logic. , 2021, , .		1
6134	Mapping the BCPNN Learning Rule to a Memristor Model. Frontiers in Neuroscience, 2021, 15, 750458.	1.4	3
6135	Possible Equivalent Circuit Model and Physical Structures of Sputter-Deposited Silicon Oxide Film Showing Resistive Switching. ECS Journal of Solid State Science and Technology, 2021, 10, 124006.	0.9	2
6136	Research Progress of Biomimetic Memristor Flexible Synapse. Coatings, 2022, 12, 21.	1.2	15

#	Article	IF	CITATIONS
6138	Simple optoelectronic chaotic generator: computer simulation and practical realization. , 2021, , .		0
6139	Memristor Logic in Digital Circuitry. Russian Microelectronics, 2021, 50, 523-527.	0.1	0
6140	An Improved Memristor Model Based on the Electrochemical Metallization Effect as a Synapse for Biomimetic Applications. Physica Status Solidi (B): Basic Research, 2022, 259, 2100379.	0.7	6
6141	Chaotic Lorenz system: analysis of the main information properties, circuit realization and LED visualization using Arduino. , 2021, , .		0
6142	A Theoretical Study on Porous-Silicon Based Synapse Design for Neural Hardware. , 2021, , .		0
6143	Predefined-Time Stability/Synchronization of Coupled Memristive Neural Networks With Multi-Links and Application in Secure Communication. Frontiers in Neurorobotics, 2021, 15, 783809.	1.6	6
6144	Design and Analysis of Memductor Based PID Controller for AVR. Lecture Notes in Electrical Engineering, 2022, , 513-526.	0.3	1
6145	Synchronization of a Memristor Chaotic System and Image Encryption. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, .	0.7	16
6146	Stochastic Computing Emulation of Memristor Cellular Nonlinear Networks. Micromachines, 2022, 13, 67.	1.4	0
6147	Invited: Security Beyond Bulk Silicon: Opportunities and Challenges of Emerging Devices., 2021,,.		0
6148	Finite-Difference Time-Domain Solution of a Memristor Fed by a Transmission Line., 2021, 4, 27-35.		0
6149	A Generic Voltage-Controlled Discrete Memristor Model and its Application in Chaotic Map. SSRN Electronic Journal, 0, , .	0.4	0
6150	Extreme Multistability. Springer Series in Synergetics, 2022, , 299-325.	0.2	2
6151	Test Optimization in Memristor Crossbars Based on Path Selection. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2023, 42, 294-307.	1.9	0
6152	Numerical Study of Non-Linear Effects for a Swept Bias Langmuir Probe. IEEE Transactions on Plasma Science, 2022, , 1-9.	0.6	1
6153	Design of a Digital Magnitu d e Comparator based on Memristor Logic Circuit. , 2022, , .		1
6154	Adaptive Sliding-Mode Synchronization of the Memristor-Based Sixth-Order Uncertain Chaotic System and Its Application in Image Encryption. Frontiers in Physics, 2022, 10, .	1.0	5
6155	Digital multiplier-less implementation of a memcapacitor and its application in chaotic oscillator. Analog Integrated Circuits and Signal Processing, 0 , 1 .	0.9	0

#	Article	IF	CITATIONS
6156	Versatile Functionality of Four-Terminal TiO _{2â€"<i>x</i>} Memristive Devices as Artificial Synapses for Neuromorphic Computing. ACS Applied Electronic Materials, 2022, 4, 2326-2336.	2.0	4
6157	A variable bandwidth memristorâ€based Legendre Optimum low pass filter for radio frequency applications. Engineering Reports, 2022, 4, .	0.9	3
6158	Molecular dynamics simulation of nanofilament breakage in neuromorphic nanoparticle networks. Nanotechnology, 2022, 33, 275602.	1.3	5
6159	Memristive Residual CapsNet: A hardware friendly multi-level capsule network. Neurocomputing, 2022, 496, 1-10.	3.5	4
6160	Design and multistability analysis of memristor-based jerk hyperchaos system with controllable offset. European Physical Journal: Special Topics, 0 , 1 .	1.2	2
6161	Two Modified Chaotic Maps Based on Discrete Memristor Model. Symmetry, 2022, 14, 800.	1.1	10
6162	Strange nonchaotic attractor in memristor-based van der Pol oscillator. European Physical Journal: Special Topics, 2022, 231, 3143-3149.	1.2	6
6163	Memristive band pass filter chaotic circuit: multistability and control. International Journal of Electronics Letters, 2023, 11, 203-220.	0.7	1
6164	Local stability and Hopf bifurcations analysis of the Muthuswamy-Chua-Ginoux system. Nonlinear Dynamics, 2022, 109, 1135-1151.	2.7	3
6165	Quantum Conductance in Memristive Devices: Fundamentals, Developments, and Applications. Advanced Materials, 2022, 34, e2201248.	11.1	31
6166	A single-T chaotic circuit based on a physical memristor. European Physical Journal: Special Topics, 0, ,	1.2	4
6167	Real-time fuzzy-pid synchronization of memristor-based chaotic circuit using graphical coded algorithm in secure communication applications. Physica Scripta, 2022, 97, 055212.	1.2	6
6168	Nanoscale Memristorâ€Based Spike Timingâ€Dependent Plasticity Learning in a Radixâ€X Quantized Retinal Neural Network. Physica Status Solidi (A) Applications and Materials Science, 2022, 219, .	0.8	1
6169	Ta/HfO ₂ memristors: from device physics to neural networks. Japanese Journal of Applied Physics, 0, , .	0.8	1
6170	NeuroPack: An Algorithm-Level Python-Based Simulator for Memristor-Empowered Neuro-Inspired Computing. Frontiers in Nanotechnology, 2022, 4, .	2.4	5
6171	Reconfigurable halide perovskite nanocrystal memristors for neuromorphic computing. Nature Communications, 2022, 13, 2074.	5.8	89
6172	Chaos in a memristive oscillator with six lines of equilibria. European Physical Journal: Special Topics, 2022, 231, 3059-3065.	1.2	2
6173	Asymmetric resistive switching by anion out-diffusion mechanism in transparent Al/ZnO/ITO heterostructure for memristor applications. Surfaces and Interfaces, 2022, , 101950.	1.5	7

#	Article	IF	CITATIONS
6174	Problems with Abstract Observers and Advantages of a Model-Centric Cybernetics Paradigm. Systems, 2022, 10, 53.	1.2	1
6175	Graph Coloring via Locally-Active Memristor Oscillatory Networks. Journal of Low Power Electronics and Applications, 2022, 12, 22.	1.3	14
6176	Edge of Chaos in Memristor Cellular Nonlinear Networks. Mathematics, 2022, 10, 1288.	1.1	4
6179	Introducing Nanotechnology into an Undergraduate Microelectronics Course., 0,,.		0
6183	Reachable Set Estimation for Memristive Complex-Valued Neural Networks With Disturbances. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 11029-11034.	7.2	6
6184	Vectorization Calculation Method of the Fractional-Order Mem-Elements. Lecture Notes in Networks and Systems, 2022, , 106-111.	0.5	0
6185	Analysis and implementation of simple four-dimensional memristive chaotic system with infinite coexisting attractors. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 160502.	0.2	7
6186	Nonvolatile Plasmonics Based on Optically Reprogrammable Phase Change Materials. IEEE Photonics Journal, 2022, 14, 1-8.	1.0	6
6187	Applications of biomemristors in next generation wearable electronics. Nanoscale Horizons, 2022, 7, 822-848.	4.1	19
6188	Computer Simulation of a Memristor-Based Neuron Circuit. , 2022, , .		1
6189	3-D Physical Electro-Thermal Modeling of Nanoscale Y ₂ O ₃ Memristors for Synaptic Application. IEEE Transactions on Electron Devices, 2022, 69, 3124-3129.	1.6	6
6190	Measurement of Memristor Characteristics at NI ELVIS Workstation. , 2022, , .		0
6191	Stabilization of Memristor-Based Chua's Circuits via Dynamic Event-Triggered Mechanism. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 3809-3813.	2.2	1
6192	One-Step Preparation of Memristors Based on Thermoelectric Material Bi2te3. SSRN Electronic Journal, 0, , .	0.4	0
6193	Comparison of the Output Parameters of the Memristor-based Op-amp Model and the Traditional Op-amp Model. Journal of Electronic Testing: Theory and Applications (JETTA), 0, , .	0.9	1
6194	Memristor based full subtractor. , 2022, , .		1
6195	A ternary memristor full adder based on literal operation and module operation. International Journal of Circuit Theory and Applications, 2022, 50, 2932-2940.	1.3	4
6196	Factors Determining the Resistive Switching Behavior of Transparent InGaZnOâ€Based Memristors. Physica Status Solidi - Rapid Research Letters, 2022, 16, .	1.2	10

#	Article	IF	CITATIONS
6197	A S-type locally active memristor and its application in chaotic circuit. European Physical Journal: Special Topics, 2022, 231, 3131-3142.	1.2	3
6198	Global Exponential Stability of a Class of Memristor-Based RNN and Its Application to Design Stable Voltage Circuits. Frontiers in Energy Research, 2022, 10, .	1.2	0
6199	Coexisting and hidden attractors of memristive chaotic systems with and without equilibria. European Physical Journal Plus, 2022, 137, 1.	1.2	5
6200	Hidden dynamics, synchronization, and circuit implementation of a fractional-order memristor-based chaotic system. European Physical Journal: Special Topics, 2022, 231, 3171-3185.	1.2	3
6201	Transmission Electron Microscopy Study on the Effect of Thermal and Electrical Stimuli on Ge2Te3 Based Memristor Devices. Frontiers in Electronics, 2022, 3, .	2.0	0
6202	Memristive crossbar circuit for neural network and its application in digit recognition. Japanese Journal of Applied Physics, 0, , .	0.8	0
6203	Discrete fracmemristor model with the window function and its application in Logistic map. European Physical Journal: Special Topics, 0 , 1 .	1.2	1
6204	Lagrangian stability of memristor-based neural networks with unbounded time- varying delays. , 2022, ,		2
6205	A Design Space Exploration Framework for Memristor-Based Crossbar Architecture. , 2022, , .		0
6206	DNA Memristors and Their Application to Reservoir Computing. ACS Synthetic Biology, 2022, 11, 2202-2213.	1.9	5
6207	4-D Memristive Chaotic Systems-Based Audio Secure Communication Using Dual-Function-Link Fuzzy Brain Emotional Controller. International Journal of Fuzzy Systems, 2022, 24, 2946-2968.	2.3	9
6208	Modeling of the generic memcapacitors using higher-order multi-ports. Communications in Nonlinear Science and Numerical Simulation, 2022, 113, 106497.	1.7	3
6209	Learning by mistakes in memristor networks. Physical Review E, 2022, 105, .	0.8	2
6210	A Memristor-Based High-Resolution A/D Converter. Electronics (Switzerland), 2022, 11, 1470.	1.8	3
6211	Memristor-Based Neuromodulation Device for Real-Time Monitoring and Adaptive Control of Neuronal Populations. ACS Applied Electronic Materials, 2022, 4, 2380-2387.	2.0	11
6213	Charge-controlled grounded memristor emulator circuits based on Arbel-Goldminz cell with variable switching behaviour. Analog Integrated Circuits and Signal Processing, 2022, 113, 373-381.	0.9	4
6214	Phase synchronization, extreme multistability and its control with selection of a desired pattern in hybrid coupled neurons via a memristive synapse. Nonlinear Dynamics, 2022, 109, 925-942.	2.7	20
6215	Memristive KDG-BNN: Memristive binary neural networks trained via knowledge distillation and generative adversarial networks. Knowledge-Based Systems, 2022, 249, 108962.	4.0	5

#	Article	IF	CITATIONS
6216	Toward memristive in-memory computing: principles and applications. Frontiers of Optoelectronics, 2022, 15, .	1.9	17
6217	FAMCroNA: Fault Analysis in Memristive Crossbars for Neuromorphic Applications. Journal of Electronic Testing: Theory and Applications (JETTA), 0, , .	0.9	0
6218	A novel four-lobe corsage memristor with tristability and its complex dynamics. European Physical Journal: Special Topics, 2022, 231, 3043-3058.	1.2	3
6219	A multi-value 3D crossbar array nonvolatile memory based on pure memristors. European Physical Journal: Special Topics, 2022, 231, 3119-3130.	1.2	11
6220	OTA and CDTA-based new memristor-less meminductor emulators and their applications. Journal of Computational Electronics, 2022, 21, 1026-1037.	1.3	6
6221	A memristor-based circuit design and implementation for blocking on Pavlov associative memory. Neural Computing and Applications, 2022, 34, 14745-14761.	3.2	7
6222	Multiple target recognition and position identification circuit based on memristor. AEU - International Journal of Electronics and Communications, 2022, 151, 154223.	1.7	2
6223	Biomemristors-based synaptic devices for artificial intelligence applications. Organic Electronics, 2022, 106, 106540.	1.4	15
6224	DDCC-based meminductor circuit with hard and smooth switching behaviors and its circuit implementation. Microelectronics Journal, 2022, 125, 105462.	1.1	7
6225	Investigation of STDP mechanisms for memristor circuits. AEU - International Journal of Electronics and Communications, 2022, 151, 154230.	1.7	13
6226	Analog-to-digital and self-rectifying resistive switching behavior based on flower-like δ-MnO2. Applied Surface Science, 2022, 595, 153560.	3.1	15
6227	Analysis and experimental realization of the logistic map using Arduino Pro Mini., 2020, 2608, 300-310.		3
6228	Circuit Implementation and Quasi-Stabilization of Delayed Inertial Memristor-Based Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 1394-1400.	7.2	6
6229	Adaptive Fixed-Time Synchronization of Delayed Memristor-Based Neural Networks with Discontinuous Activations. CMES - Computer Modeling in Engineering and Sciences, 2022, .	0.8	1
6230	How Nonlinear Science Leads to Continuous Innovation in an Academic and Productive High-Tech Community. Nonlinear Phenomena in Complex Systems, 2022, 25, 1-12.	0.1	0
6231	Design of a New Dimension-Changeable Hyperchaotic Model Based on Discrete Memristor. Symmetry, 2022, 14, 1019.	1.1	13
6232	An experimental demonstration of the memristor test. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 142, 115290.	1.3	4
6233	Memristor-based genetic algorithm for image restoration. Journal of Electronic Science and Technology, 2022, 20, 100158.	2.0	3

#	Article	IF	CITATIONS
6234	Approximate symmetry memristive mega-stable oscillator with attractor growing and its Hamilton energy balance. European Physical Journal Plus, 2022, 137, .	1,2	4
6235	First-principles simulation of neutral and charged oxygen vacancies in m-ZrO2: An origin of filamentary type resistive switching. Nanotechnology, 2022, , .	1.3	1
6236	Proportional-Integral Observer-Based State Estimation for Markov Memristive Neural Networks With Sensor Saturations. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 405-416.	7.2	23
6237	A Survey on Neuromorphic Computing: Models and Hardware. IEEE Circuits and Systems Magazine, 2022, 22, 6-35.	2.6	19
6238	Review and Perspectives of Micro/Nano Technologies as Key-Enablers of 6G. IEEE Access, 2022, 10, 55428-55458.	2.6	15
6239	Cu-Doped TiO _{2â^'} <i>_x </i> Nanoscale Memristive Applications in Chaotic Circuit and True Random Number Generator. IEEE Transactions on Industrial Electronics, 2023, 70, 4120-4127.	5.2	7
6240	A Discharge-Path-Based Sensing Circuit With OTS Snapback Current Protection for Phase Change Memories. IEEE Access, 2022, 10, 53513-53521.	2.6	1
6241	Analogue In-Memory Computing with Resistive Switching Memories. , 2022, , 61-86.		2
6242	A Novel Window Function Enables Memristor Model With High Efficiency Spiking Neural Network Applications. IEEE Transactions on Electron Devices, 2022, 69, 3667-3674.	1.6	5
6244	Stability of Quantized Conductance Levels in Memristors with Copper Filaments: Toward Understanding the Mechanisms of Resistive Switching. Physical Review Applied, 2022, 17, .	1.5	5
6245	Circuit and microcontroller validation of the extreme multistable dynamics of a memristive Jerk system: application to image encryption. European Physical Journal Plus, 2022, 137, .	1.2	12
6246	Mathematical analysis and circuit emulator design of the three-valued memristor. The Integration VLSI Journal, 2022, , .	1.3	4
6247	Impact of oxygen concentration at the HfOx/Ti interface on the behavior of HfOx filamentary memristors. Journal of Materials Science, 2022, 57, 9299-9311.	1.7	8
6248	A new continuous memristive chaotic system with multistability and amplitude control. European Physical Journal Plus, 2022, 137, .	1.2	4
6249	Modeling and Simulation of Double Gate Dielectric Stack Silicon Substrate Memristor Circuits for Low Power Applications. Silicon, 0, , .	1.8	2
6250	Ferroelectric polymers for neuromorphic computing. Applied Physics Reviews, 2022, 9, .	5.5	31
6251	Synchronization in fixed/preassigned-time of delayed fully quaternion-valued memristive neural networks via non-separation method. Communications in Nonlinear Science and Numerical Simulation, 2022, 113, 106581.	1.7	14
6252	Memristor Based CAM Cell Designs and Analaysis of Their Performance. , 2022, , .		0

#	ARTICLE	IF	CITATIONS
6253	Memristive Cluster Based Compact High-Density Nonvolatile Memory Design and Application for Image Storage. Micromachines, 2022, 13, 844.	1.4	5
6254	A memristor-based RBM circuit implementation and application in license plate image processing. Scientia Sinica Informationis, 2023, 53, 164.	0.2	3
6255	Design of the Threshold-Controllable Memristor Emulator Based on NDR Characteristics. Micromachines, 2022, 13, 829.	1.4	0
6256	Finite-time Mittag–Leffler synchronization of fractional-order complex-valued memristive neural networks with time delay. Chinese Physics B, 2022, 31, 100201.	0.7	5
6257	Oscillators Based on Fractional-Order Memory Elements. Fractal and Fractional, 2022, 6, 283.	1.6	1
6258	Lag quasi-synchronization of incommensurate fractional-order memristor-based neural networks with nonidentical characteristics via quantized control: A vector fractional Halanay inequality approach. Journal of the Franklin Institute, 2022, 359, 6392-6437.	1.9	4
6259	Extremely hidden multi-stability in a class of two-dimensional maps with a cosine memristor. Chinese Physics B, 2022, 31, 100503.	0.7	11
6260	Physical Compact Model for Threeâ€∓erminal SONOS Synaptic Circuit Element. Advanced Intelligent Systems, 2022, 4, .	3.3	2
6261	Empirical Characterization of ReRAM Devices Using Memory Maps and a Dynamic Route Map. Electronics (Switzerland), 2022, 11, 1672.	1.8	1
6262	Dynamics of a fractional-order voltage-controlled locally active memristor. Pramana - Journal of Physics, 2022, 96, .	0.6	0
6263	Detecting Boosting Weak Signal via A Meminductive Multistable Chaotic System. Frontiers in Physics, 0, 10 , .	1.0	0
6264	Controlling a 4D Chaotic Oscillator with a Quadratic Memductance and Its Implementation. Journal of Circuits, Systems and Computers, 0, , .	1.0	2
6265	Variance-aware weight quantization of multi-level resistive switching devices based on Pt/LaAlO3/SrTiO3 heterostructures. Scientific Reports, 2022, 12, .	1.6	6
6266	Spike-time-dependent plasticity rule in memristor models for circuit design. Journal of Computational Electronics, 2022, 21, 1038-1047.	1.3	4
6267	Memristorâ€based disturbance rejection control for portâ€Hamiltonian systems with locally fixedâ€time convergence. IET Control Theory and Applications, 2022, 16, 1326-1340.	1.2	2
6268	<pre><mml:math altimg="si13.svg" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mstabilization 2022,="" 27-43.<="" 607,="" delays.="" for="" information="" memristive="" networks="" neural="" pre="" problem="" sciences,="" time-varying="" with=""></mstabilization></mml:mrow></mml:msub></mml:mrow></mml:math></pre>	ml:mi>â^ž< 4.0	:/mml:mi>
6269	A Memristor-based Secure Scan Design against the Scan-based Side-Channel Attacks. , 2022, , .		0
6270	Discrete Memristor and Discrete Memristive Systems. Entropy, 2022, 24, 786.	1.1	33

#	Article	IF	CITATIONS
6271	Memristor's characteristics: From non-ideal to ideal. Chinese Physics B, 0, , .	0.7	0
6272	Multistable dynamics in a Hopfield neural network under electromagnetic radiation and dual bias currents. Nonlinear Dynamics, 2022, 109, 2085-2101.	2.7	30
6273	Neuromorphic dynamics near the edge of chaos in memristive neurons. Chaos, Solitons and Fractals, 2022, 160, 112241.	2.5	12
6274	Computationally efficient memristor model based on Hann window function. Microelectronics Journal, 2022, 125, 105476.	1.1	5
6281	Ta/HfO2-based Memristor and Crossbar Arrays for In-Memory Computing. , 2022, , 167-188.		1
6283	Pattern Formation in an M-CNN Structure Utilizing a Locally Active NbOx Memristor. , 2022, , 79-101.		3
6285	Extreme Multistability in a Hopfield Neural Network Based on Two Biological Neuronal Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 4568-4572.	2.2	5
6287	Optical Memristors: Review of Switching Mechanisms and New Computing Paradigms. , 2022, , 219-244.		3
6288	Understanding the fundamentals of TiO ₂ surfaces. Part I. The influence of defect states on the correlation between crystallographic structure, electronic structure and physical properties of single-crystal surfaces. Surface Engineering, 2022, 38, 91-149.	1.1	5
6289	Memristor-based Oscillator for Complex Chemical Wave Logic Computations: Fredkin Gate Paradigm. , 2022, , .		0
6290	Memristor-Specific Failures: New Verification Methods and Emerging Test Problems. , 2022, , .		0
6291	A new Grounded Memristor Emulator using DVCC and OTA. , 2022, , .		3
6292	Grounded Memristor Emulator Using Single Active Block. , 2022, , .		3
6293	Memristive functionality based on viscous magnetization dynamics. Journal of Applied Physics, 2022, 131, .	1.1	0
6294	2022 roadmap on neuromorphic devices and applications research in China. Neuromorphic Computing and Engineering, 2022, 2, 042501.	2.8	4
6295	Symplectic Dynamics and Simultaneous Resonance Analysis of Memristor Circuit Based on Its van der Pol Oscillator. Symmetry, 2022, 14, 1251.	1.1	4
6296	Temperature, detriment, or advantage for memory emergence: The case of ZnO. Journal of Chemical Physics, 2022, 157, .	1.2	3
6297	A Modified Metal-Oxide Memristor Model for Reconfigurable Filters. Proceedings of the Technical University of Sofia, 2022, 72, .	0.1	0

#	Article	IF	CITATIONS
6298	A Metal Oxide Memristor-Based Oscillators and Filters. Proceedings of the Technical University of Sofia, 2022, 72, .	0.1	0
6299	Antimonotonicity, Hysteresis and Coexisting Attractors in a Shinriki Circuit with a Physical Memristor as a Nonlinear Resistor. Electronics (Switzerland), 2022, 11, 1920.	1.8	6
6300	The Simplest Memristor Circuit With Hyperchaos. Frontiers in Physics, 0, 10, .	1.0	1
6301	Discrete-Time Memristor Model for Enhancing Chaotic Complexity and Application in Secure Communication. Entropy, 2022, 24, 864.	1.1	2
6302	Transient Response and Firing Behaviors of Memristive Neuron Circuit. Frontiers in Neuroscience, 0, 16, .	1.4	1
6303	Bipartite leader-following synchronization of delayed incommensurate fractional-order memristor-based neural networks under signed digraph via adaptive strategy. Neurocomputing, 2022, 505, 413-432.	3.5	10
6304	Humidityâ€Enabled Organic Artificial Synaptic Devices with Ultrahigh Moisture Resistivity. Advanced Electronic Materials, 2022, 8, .	2.6	6
6305	Memristor, Memcapacitor, Meminductor: Models and Experimental Circuit Emulators. Engineering, Technology & Applied Science Research, 2022, 12, 8683-8687.	0.8	0
6306	Toward Reflective Spiking Neural Networks Exploiting Memristive Devices. Frontiers in Computational Neuroscience, 0, 16, .	1.2	18
6307	Generating self-excited and hidden attractors with complex dynamics in a memristor-based Jerk system. Indian Journal of Physics, 0, , .	0.9	2
6308	Exponential Lagrangian stability and stabilization of memristor-based neural networks with unbounded time-varying delays. Computational and Applied Mathematics, 2022, 41, .	1.0	3
6309	Voltage-controlled programmable polymer memory enabled by interface nanoengineering for thermal recognition recording. Applied Surface Science, 2022, 599, 154034.	3.1	2
6310	Selectively biased tri-terminal vertically-integrated memristor configuration. Scientific Reports, 2022, 12, .	1.6	0
6311	Mapping electric fields in real nanodevices by <i>operando</i> electron holography. Applied Physics Letters, 2022, 120, .	1.5	1
6312	Measured behaviour of a memristorâ€based tuneable instrumentation amplifier. Electronics Letters, 0, , .	0.5	0
6313	A Simple memristive chaotic system with complex dynamics and ITS image encryption application. International Journal of Modern Physics B, O, , .	1.0	3
6314	Structural and Electrical Properties of Annealed Ge2Sb2Te5 Films Grown on Flexible Polyimide. Nanomaterials, 2022, 12, 2001.	1.9	4
6315	Synchronization of Traveling Waves in Memristively Coupled Ensembles of FitzHughâ \in "Nagumo Neurons With Periodic Boundary Conditions. Frontiers in Physics, 0, 10, .	1.0	0

#	Article	IF	CITATIONS
6316	Simulation platform for pattern recognition based on reservoir computing with memristor networks. Scientific Reports, 2022, 12, .	1.6	9
6317	Compact Floating Dual Memelement Emulator Employing VDIBA and OTA: A Novel Realization. Circuits, Systems, and Signal Processing, 2022, 41, 5933-5967.	1.2	8
6318	Resistive switching of two-dimensional Ag2S nanowire networks for neuromorphic applications. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2022, 40, .	0.6	3
6319	Study on energy and information storage properities of 2D-MXene/polyimide composites. Composites Part B: Engineering, 2022, 241, 110014.	5.9	16
6320	A novel read decoupled 8T1M nvSRAM cell for near threshold operation. Microelectronics Journal, 2022, 126, 105496.	1.1	7
6321	State estimation for memristive neural networks with mixed time-varying delays via multiple integral equality. Neurocomputing, 2022, 501, 397-409.	3 . 5	3
6322	Fractional-order circuit design with hybrid controlled memristors and FPGA implementation. AEU - International Journal of Electronics and Communications, 2022, 153, 154268.	1.7	9
6323	Modulation of optoelectronic properties of ZnO/PbO core/shell nanocomposite for memcapacitive application. Materials Science in Semiconductor Processing, 2022, 149, 106892.	1.9	3
6324	Energy Aspects and Synchronizations Comparison of Memristive and Adaptive Neurons. SSRN Electronic Journal, 0, , .	0.4	0
6326	Dynamics of Discrete Memristor-Based Rulkov Neuron. IEEE Access, 2022, 10, 72051-72056.	2.6	6
6328	Design of General Flux-Controlled and Charge-Controlled Memristor Emulators Based on Hyperbolic Functions. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2023, 42, 956-967.	1.9	3
6329	Resistorless Memristor Emulators: Floating and Grounded Using OTA and VDBA for High-Frequency Applications. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2023, 42, 978-986.	1.9	10
6330	Coexisting Oscillations, Heterogeneous Multistability and Multi-Scroll Chaos in a Pair of Coupled Memristor-Based Duffing Oscillators. SSRN Electronic Journal, 0, , .	0.4	0
6331	Mutual Transformation of Flux-Controlled and Charge-Controlled Memristors. IEEE Access, 2022, 10, 68307-68318.	2.6	7
6332	Neuromorphic Technologies, Memristors., 2022,, 2344-2346.		0
6333	The Ubiquitous Memristive Response in Solids. IEEE Transactions on Electron Devices, 2022, 69, 5351-5356.	1.6	4
6334	Design and Challenges of Edge Computing ASICs on Front-End Electronics. , 2022, , .		1
6335	Nonlinear System Identification Using Dynamic Memristor-Based Reservoir Computing System. , 2022, , .		1

#	Article	IF	Citations
6336	Fault Coverage Analysis using Sneak Path based Testing in Memristor Circuits. , 2022, , .		1
6337	Bipolar interface-type resistive switching effect in the MoS2–xOx film. Applied Physics A: Materials Science and Processing, 2022, 128, .	1.1	1
6338	Symmetric extreme multistability and memristor initial-offset boosting in a new 5D four-wing hyperchaotic system based on dual memristors. Modern Physics Letters B, 2022, 36, .	1.0	1
6339	Topologically Protected Allâ€Optical Memory. Advanced Electronic Materials, 0, , 2200579.	2.6	3
6340	Comparative Analysis of Reconfigurable Platforms for Memristor Emulation. Materials, 2022, 15, 4487.	1.3	2
6341	Memkapasitör ve Konformal Fraksiyonel Dereceli Kondansatörþn Bir Araya Getirildiği İki Kapasitör Problemi. , 2022, 5, 9-15.		1
6342	Memristor-Based Read/Write Circuit with Stable Continuous Read Operation. Electronics (Switzerland), 2022, 11, 2018.	1.8	3
6343	From Quantum Materials to Microsystems. Materials, 2022, 15, 4478.	1.3	2
6344	A Nonlinear Titanium Dioxide Memristor Model for Memory Crossbars Analysis. , 2022, , .		2
6345	Application of a Nonlinear Drift Memristor Model in Analogue Reconfigurable Devices. , 2022, , .		3
6346	Anisotropic MagnetoMemristance. Communications Physics, 2022, 5, .	2.0	7
6348	Secondâ€Order Memristor Based on Allâ€Oxide Multiferroic Tunnel Junction for Biorealistic Emulation of Synapses. Advanced Electronic Materials, 2022, 8, .	2.6	6
6349	A full-function memristive pavlov associative memory circuit with inter-stimulus interval effect. Neurocomputing, 2022, 506, 68-83.	3.5	4
6350	Filamentary TaO _{<i>x</i>} /HfO ₂ ReRAM Devices for Neural Networks Training with Analog Inâ€Memory Computing. Advanced Electronic Materials, 2022, 8, .	2.6	12
6351	Emerging Memristive Devices for Brain-Inspired Computing and Artificial Perception. Frontiers in Nanotechnology, 0, 4, .	2.4	6
6352	Design Consideration for Active–Only Memcapacitor Emulator Circuits. Balkan Journal of Electrical and Computer Engineering, 2022, 10, 278-285.	0.4	0
6353	Overview of Memristor-Based Neural Network Design and Applications. Frontiers in Physics, 0, 10, .	1.0	9
6354	Ion Migration in Monolayer <mml:math display="inline" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Mo</mml:mi><mml:mi mathvariant="normal">S</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math> Memristors. Physical Review Applied. 2022. 18	1.5	3

#	Article	IF	CITATIONS
6355	Exponential stabilisation analysis of a class of delayed inertial memristive neural networks. International Journal of Control, 2023, 96, 2438-2446.	1.2	1
6356	Complex dynamics in a Hopfield neural network under electromagnetic induction and electromagnetic radiation. Chaos, 2022, 32, .	1.0	29
6357	Memristorâ€based circuit design of continuously adjustable directâ€current voltage source. International Journal of Circuit Theory and Applications, 0, , .	1.3	3
6358	A Modern Primer on Processing inÂMemory. Computer Architecture and Design Methodologies, 2023, , 171-243.	0.5	24
6359	Dynamical stochastic simulation of complex electrical behavior in neuromorphic networks of metallic nanojunctions. Scientific Reports, 2022, 12, .	1.6	2
6360	Convergence of a Class of Delayed Neural Networks with Real Memristor Devices. Mathematics, 2022, 10, 2439.	1.1	2
6361	Switching facilitated by the simultaneous formation of oxygen vacancies and conductive filaments in resistive memory devices based on thermally annealed TiO2/a-IGZO bilayers. Applied Surface Science, 2022, 601, 154281.	3.1	10
6362	Memristive, Spintronic, and 2Dâ€Materialsâ€Based Devices to Improve and Complement Computing Hardware. Advanced Intelligent Systems, 2022, 4, .	3.3	13
6363	Hands-on reservoir computing: a tutorial for practical implementation. Neuromorphic Computing and Engineering, 2022, 2, 032002.	2.8	41
6364	Recent Advances in Transistor-Based Bionic Perceptual Devices for Artificial Sensory Systems. Frontiers in Nanotechnology, 0, 4, .	2.4	1
6365	Complex Dynamics and Effects of Memristive Load Using Current-Mode-Controlled in Buck Converter. Discrete Dynamics in Nature and Society, 2022, 2022, 1-13.	0.5	1
6366	Cationic Interstitials: An Overlooked Ionic Defect in Memristors. Frontiers in Chemistry, 0, 10, .	1.8	2
6367	Design and circuit implementations of multimemristive hyperchaotic system. Chaos, Solitons and Fractals, 2022, 161, 112409.	2.5	4
6368	A generic voltage-controlled discrete memristor model and its application in chaotic map. Chaos, Solitons and Fractals, 2022, 161, 112389.	2.5	17
6369	Event-triggered impulsive synchronization of coupled delayed memristive neural networks under dynamic and static conditions. Neurocomputing, 2022, 504, 109-122.	3.5	3
6370	Asymptotic stability and synchronization of fractional delayed memristive neural networks with algebraic constraints. Communications in Nonlinear Science and Numerical Simulation, 2022, 114, 106694.	1.7	13
6371	Estimation of the effect of magnetic field on a memristive neuron. Applied Mathematics and Computation, 2022, 432, 127366.	1.4	15
6372	Hybrid CMOS-Memristor based operational transconductance amplifier for high frequency applications. Sustainable Energy Technologies and Assessments, 2022, 53, 102506.	1.7	2

#	Article	IF	CITATIONS
6373	Towards the Development of Unified Models for Memristors: Charge-Flux Relationship. , 2020, , .		0
6374	Analytical Modelling of Y ₂ O ₃ -based Memristive System for Artificial Synapses., 2020, , .		0
6375	Quasi-Stabilization Control of Quaternion-Valued Fractional-Order Memristive Neural Networks. Circuits, Systems, and Signal Processing, $0, , .$	1.2	0
6376	Synaptic mechanisms of four W/WOx/ITO memristors with different WOx structures. Journal Physics D: Applied Physics, 0, , .	1.3	3
6377	A Fault Detection Method of Memristor in Chaotic Circuit Based on Artificial Neural Network. Wireless Communications and Mobile Computing, 2022, 2022, 1-10.	0.8	1
6378	Fixed-time projective synchronization of delayed memristive neural networks via aperiodically semi-intermittent switching control. ISA Transactions, 2023, 133, 302-316.	3.1	5
6379	Pattern formation dynamics in a Memristor Cellular Nonlinear Network structure with a numerically stable VO ₂ memristor model. Japanese Journal of Applied Physics, 2022, 61, SM0807.	0.8	9
6380	Pattern formation induced by gradient field coupling in bi-layer neuronal networks. European Physical Journal: Special Topics, 2022, 231, 4077-4088.	1.2	6
6381	Nanoionic memristive phenomena in metal oxides: the valence change mechanism. Advances in Physics, 2021, 70, 155-349.	35.9	60
6382	Synchronization of fractional-order memristive recurrent neural networks via aperiodically intermittent control. Mathematical Biosciences and Engineering, 2022, 19, 11717-11734.	1.0	1
6383	CEVGMM: Computationally Efficient Versatile Generic Memristor Model. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2022, 30, 1794-1802.	2.1	0
6384	New results on finite-/fixed-time synchronization of delayed memristive neural networks with diffusion effects. AIMS Mathematics, 2022, 7, 16962-16974.	0.7	1
6385	Electrical Characteristics of Quadratic Chain Scaling Fractional-Order Memristor. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 4558-4562.	2.2	1
6386	State Estimation of Fractional-Order Memristor-Based Neural Networks with Probabilistic Time-Varying Delay. , 2022, , .		0
6387	Adaptive finite-time synchronization of memristive neural networks with unknown parameters via sliding mode control., 2022,,.		0
6388	Nonlinear dynamic analysis of the PCC buck converter with MR parallel load., 2022,,.		0
6389	Multifunctional Module Design Based on Hybrid CMOS-Memristor Logic Circuit., 2022,,.		0
6390	Learning about nanodevices using experimental characterization equipment. , 2022, , .		O

#	Article	IF	CITATIONS
6391	Operational Conditions Analysis for Memristive Stateful Logics - A Study on IMPLY and TMSL., 2022, , .		0
6392	Memristor-assisted Background Calibration for Analog-to-Digital Converter. , 2022, , .		1
6393	Low Power High Speed Full Adder Design Using CMOS Memristor Hybrid Circuits., 2022,,.		0
6394	Design and Analysis of Memristor-CMOS Based Hybrid D Latch. , 2022, , .		2
6395	Image Shifting Tracking Leveraging Memristive Devices. , 2022, , .		3
6396	A Modified Metal Oxide Memristor Model. , 2022, , .		3
6397	Bioinspired Cellular Nonlinear Networks working on the edge of chaos. , 2022, , .		0
6398	A Preparation Method of Titanium Oxide Memristor. , 2022, , .		0
6399	HashPIM: High-Throughput SHA-3 via Memristive Digital Processing-in-Memory. , 2022, , .		1
6400	Nanoelectronic Challenges and Opportunities for Cyber-Physical Systems. , 2022, , .		0
6401	Study of a Chaotic Circuit with a Physical Memristor as a Nonlinear Resistor., 2022,,.		3
6402	Empirical Modelling of ReRAM Measured Characteristics Using Charge and Flux. , 2022, , .		0
6403	A General Model for Metal Oxide-Based Memristors and Application in Filters. , 2022, , .		3
6404	Low Power 3-Bit Encoder Design using Memristor. , 2022, , .		0
6405	Performance Analysis of RRAM Based Low Power NVSRAM Cell Designs for IoT Applications. , 2022, , .		2
6406	Analytical Calculation of Inference in Memristor-based Stochastic Artificial Neural Networks. , 2022, , .		1
6407	Finite-time Anti-synchronization of Memristor Oscillation System., 2022,,.		0
6408	Development of Neuromorphic Systems and Emerging Devices: Revolutionize Artificial Intelligence with your Devices !!., 2022,,.		1

#	Article	IF	CITATIONS
6409	State Estimation for Memristive Neural Networks with Observer. , 2022, , .		0
6410	Memristor-based asymmetric extreme multistable hyperchaotic system with a line of equilibria, coexisting attractors, its implementation and nonlinear active-adaptive projective synchronisation. European Physical Journal Plus, 2022, 137, .	1.2	6
6411	A Novel Multiscroll Memristive Hopfield Neural Network. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2022, 32, .	0.7	5
6412	A nonlinear memductance induced intermittent and anti-phase synchronization. Chaos, 2022, 32, .	1.0	5
6413	A Novel Two-Layer Memristive Spiking Neural Network with Spatio-Temporal Backpropagation., 2022,,.		1
6414	Dynamical Analysis of HR-FN Neuron Model Bidirectional Coupled by Locally Active Hyperbolic Memristor and Circuit Implementation. , 2022, , .		1
6415	A Simple Memristive Circuit for Pattern Classification Based on Reservoir Computing. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2022, 32, .	0.7	7
6416	A Novel Memristor-based Rectangular Wave Generator. , 2022, , .		0
6417	Strange Nonchaotic Attractors in Memristor-Based Shimizu–Morioka Oscillator. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2022, 32, .	0.7	6
6418	Halide-Perovskite-Based Memristor Devices and Their Application in Neuromorphic Computing. Physical Review Applied, 2022, 18, .	1.5	13
6419	Globally Exponential Stability of Uncertain Memristor-based Recurrent Neural Networks with Unbounded Time-varying Delays., 2022,,.		0
6420	An organic synaptic circuit: toward flexible and biocompatible organic neuromorphic processing. Neuromorphic Computing and Engineering, 2022, 2, 034009.	2.8	2
6421	Universal memelement emulator using only off-the-shelf components. Analog Integrated Circuits and Signal Processing, 0, , .	0.9	0
6422	Advancements and applications of electrohydrodynamic printing in modern microelectronic devices: a comprehensive review. Applied Physics A: Materials Science and Processing, 2022, 128, .	1.1	8
6423	Experimental and Simulation Results of Wien Bridge Oscillator Circuıt Realized wıth Op-Amp Designed Using a Memristor. Journal of Electronic Testing: Theory and Applications (JETTA), 0, , .	0.9	1
6424	Review on the Basic Circuit Elements and Memristor Interpretation: Analysis, Technology and Applications. Journal of Low Power Electronics and Applications, 2022, 12, 44.	1.3	6
6425	Memristive FHN spiking neuron model and brain-inspired threshold logic computing. Neurocomputing, 2023, 517, 93-105.	3.5	8
6426	A Novel Memristor-Based SRAM Design with Improved Stability in Sub-Threshold Region. Journal of the Institution of Engineers (India): Series B, 0, , .	1.3	0

#	Article	IF	CITATIONS
6427	Application of discrete memristors in logistic map and Hindmarsh–Rose neuron. European Physical Journal: Special Topics, 0, , .	1.2	7
6428	A novel image encryption scheme based on memristive chaotic system and combining bidirectional bit-level cyclic shift and dynamic DNA-level diffusion. Frontiers in Physics, 0, 10, .	1.0	13
6429	Revival of Ferroelectric Memories Based on Emerging Fluoriteâ€Structured Ferroelectrics. Advanced Materials, 2023, 35, .	11.1	23
6430	Dynamical behaviors of a chaotic jerk circuit based on a novel memristive diode emulator with a smooth symmetry control. European Physical Journal Plus, 2022, 137, .	1.2	6
6431	Multi-Type Synchronization for Second-Order Memristive Neural Networks with Mixed Time-Varying Delays. Neural Processing Letters, 0, , .	2.0	0
6432	A flux controlled electronically tunable fully floating OTA based memristor emulator. Analog Integrated Circuits and Signal Processing, 2022, 113, 171-184.	0.9	2
6433	Electromagnetic Interference Effects of Continuous Waves on Memristors: A Simulation Study. Sensors, 2022, 22, 5785.	2.1	2
6434	Constructing a discrete memristor chaotic map and application to hash function with dynamic S-Box. European Physical Journal: Special Topics, 2022, 231, 3239-3247.	1.2	4
6435	Compact tunable memristor and inverse-memristor emulators with grounded passive elements. Australian Journal of Electrical and Electronics Engineering, 0, , 1-19.	0.7	0
6436	A novel generalized fractionalâ€order memristor model with fully explicit memory description. International Journal of Circuit Theory and Applications, 0, , .	1.3	0
6437	Perspective on Nanofluidic Memristors: From Mechanism to Application. Chemistry - an Asian Journal, 2022, 17, .	1.7	14
6438	From Ferroelectric Material Optimization to Neuromorphic Devices. Advanced Materials, 2023, 35, .	11.1	30
6439	Synchronization behavior in a memristive synapse-connected neuronal network. European Physical Journal Plus, 2022, 137, .	1.2	2
6440	Patterned Growth of Transition Metal Dichalcogenide Monolayers and Multilayers for Electronic and Optoelectronic Device Applications. Small Methods, 2022, 6, .	4.6	12
6441	Finite-time synchronization of reaction–diffusion memristive neural networks: A gain-scheduled integral sliding mode control scheme. ISA Transactions, 2022, 130, 692-701.	3.1	1
6442	Advances in Emerging Photonic Memristive and Memristive‣ike Devices. Advanced Science, 2022, 9, .	5.6	15
6443	Memristive synaptic crosstalk effects on Hopfield neural network. , 2022, , .		0
6444	Semiconductor technologies and related topics for implementation of electronic reservoir computing systems. Semiconductor Science and Technology, 0, , .	1.0	O

#	Article	IF	CITATIONS
6445	An Electronically Tunable Meminductor Emulator and Its Application in Chaotic Oscillator and Adaptive Learning Circuit. Journal of Circuits, Systems and Computers, 2023, 32, .	1.0	2
6446	Point-sampled-data passivity stabilization of stochastic complex-valued memristor networks with multi-delays and reaction-diffusion term: A switching model approach. Journal of the Franklin Institute, 2022, 359, 11108-11134.	1.9	1
6447	Firing mechanism based on single memristive neuron and double memristive coupled neurons. Nonlinear Dynamics, 2022, 110, 3807-3822.	2.7	29
6448	A Deep Study of Resistance Switching Phenomena in TaO _x ReRAM Cells: Systemâ€Theoretic Dynamic Route Map Analysis and Experimental Verification. Advanced Electronic Materials, 2022, 8, .	2.6	17
6449	Memristors with Biomaterials for Biorealistic Neuromorphic Applications. Small Science, 2022, 2, .	5.8	16
6450	STDP Based Online Learning for a Current-Controlled Memristive Synapse. , 2022, , .		4
6451	Study on the Electrical Conduction Mechanism of Unipolar Resistive Switching Prussian White Thin Films. Nanomaterials, 2022, 12, 2881.	1.9	5
6452	BPSK Circuit Based on SDC Memristor. Micromachines, 2022, 13, 1306.	1.4	2
6453	Dynamic analysis of a slow-fast oscillator based on a coupled Duffing memristive system. International Journal of Dynamics and Control, 0, , .	1.5	0
6454	AMemImp: Novel Analog Memimpedance Device and Circuits for MAC Unit., 2022,,.		0
6455	Organic Thin-Film Memcapacitive Device With Analog and Nonvolatile Memory Effect. IEEE Electron Device Letters, 2022, 43, 1539-1542.	2.2	3
6456	Fixed-/Preassigned-time stabilization of delayed memristive neural networks. Information Sciences, 2022, 610, 624-636.	4.0	13
6457	A synaptic memristor based on natural organic honey with neural facilitation. Organic Electronics, 2022, 109, 106622.	1.4	6
6458	Synchronization of multiple reaction–diffusion memristive neural networks with known or unknown parameters and switching topologies. Knowledge-Based Systems, 2022, 254, 109595.	4.0	11
6459	A novel four-element RCLM hyperchaotic circuit based on current-controlled extended memristor. AEU - International Journal of Electronics and Communications, 2022, 156, 154391.	1.7	7
6460	Analysis of dynamical robustness of multilayer neuronal networks with inter-layer ephaptic coupling at different scales. Applied Mathematical Modelling, 2022, 112, 156-167.	2.2	5
6461	Multimodal Neuromorphic Sensory-Processing System With Memristor Circuits for Smart Home Applications. IEEE Transactions on Industry Applications, 2023, 59, 47-58.	3.3	25
6462	Principle and Application of Frequency-Domain Characteristic Analysis of Fractional-Order Memristor. Micromachines, 2022, 13, 1512.	1.4	0

#	Article	IF	CITATIONS
6463	Two-Neuron Based Memristive Hopfield Neural Network with Synaptic Crosstalk. Electronics (Switzerland), 2022, 11, 3034.	1.8	5
6464	Energy-efficient neural network design using memristive MAC unit. Frontiers in Electronics, 0, 3, .	2.0	0
6465	Membership-Function-Dependent Fuzzy Control of Reaction-Diffusion Memristive Neural Networks With a Finite Number of Actuators and Sensors. Neurocomputing, 2022, 514, 94-100.	3.5	6
6466	A novel nuclear radiation cumulant sensor based on spintronic memristor. Sensors and Actuators A: Physical, 2022, 346, 113842.	2.0	0
6467	Feed-Forward learning algorithm for resistive memories. Journal of Systems Architecture, 2022, 131, 102730.	2.5	0
6468	A memristor-based VB2 chaotic system: Dynamical analysis, circuit implementation, and image encryption. Optik, 2022, 269, 169878.	1.4	8
6469	Artificial synapses enabled neuromorphic computing: From blueprints to reality. Nano Energy, 2022, 103, 107744.	8.2	20
6470	Finite-time synchronization of fractional-order memristive neural networks via feedback and periodically intermittent control. Communications in Nonlinear Science and Numerical Simulation, 2023, 116, 106822.	1.7	13
6471	A new 4D Memristor chaotic system: Analysis and implementation. The Integration VLSI Journal, 2023, 88, 91-100.	1.3	17
6472	Stability criteria for memristor-based delayed fractional-order Cohen–Grossberg neural networks with uncertainties. Journal of Computational and Applied Mathematics, 2023, 420, 114764.	1.1	11
6473	Dynamics of a Photochromic-Actuated Slot Microring Photonic Memristor. IEEE Journal of Selected Topics in Quantum Electronics, 2023, 29, 1-10.	1.9	0
6474	Research progress of neuromorphic devices based on two-dimensional layered materials. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 218504.	0.2	1
6475	Memristor-Based Neural Network Circuit of Operant Conditioning Accorded With Biological Feature. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 4475-4486.	3.5	15
6476	GEM: A Generalized Memristor Device Modeling Framework Based on Neural Network for Transient Circuit Simulation. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2023, 42, 834-846.	1.9	2
6477	Electronically Tunable Flux-Controlled Resistorless Memristor Emulator. Canadian Journal of Electrical and Computer Engineering, 2022, 45, 311-317.	1.5	5
6478	Design of a Memristor-Based 2-DOF PI Controller and Testing of Its Temperature Profile Tracking in a Heat Flow System. IEEE Access, 2022, 10, 98384-98390.	2.6	2
6479	Using Memristor Arrays asÂPhysical Unclonable Functions. Lecture Notes in Computer Science, 2022, , 250-271.	1.0	0
6480	Analysis and FPGA implementation of a Memristor chaotic system with extreme multistability. Wuli Xuebao/Acta Physica Sinica, 2022, .	0.2	0

#	Article	IF	CITATIONS
6481	Asymptotic Stabilization Control of Fractional-Order Memristor-Based Neural Networks System via Combining Vector Lyapunov Function With $\langle i \rangle M \langle i \rangle$ -Matrix. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2023, 53, 1734-1747.	5.9	8
6482	Cellular Automata Application on Chemical Computing Logic Circuits. Lecture Notes in Computer Science, 2022, , 3-14.	1.0	0
6483	Fracmemristor Oscillator: Fractional-Order Memristive Chaotic Circuit. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 5219-5232.	3.5	4
6484	Prespecified-time bipartite synchronization of coupled reaction-diffusion memristive neural networks with competitive interactions. Mathematical Biosciences and Engineering, 2022, 19, 12814-12832.	1.0	5
6485	Floating Memcapacitor Based on Knowm Memristor and Its Dynamic Behaviors. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 5134-5138.	2.2	2
6486	Sampled-Data Synchronization Control for Semi-Markovian Jump Memristive Neural Networks. Advances in Applied Mathematics, 2022, 11, 4917-4932.	0.0	0
6487	Analysis and FPGA implementation of a Memristor chaotic system with extreme multistability. Wuli Xuebao/Acta Physica Sinica, 2022, .	0.2	0
6488	A DfT Strategy forÂDetecting Emerging Faults inÂRRAMs. IFIP Advances in Information and Communication Technology, 2022, , 93-111.	0.5	0
6489	Cryptography using chaotic theory for image encryption and decryption. AIP Conference Proceedings, 2022, , .	0.3	0
6490	A Temperature Dependent Modified TEAM Model. Lecture Notes in Electrical Engineering, 2022, , 357-368.	0.3	0
6491	Multiple Mittag-Leffler Stability of Fractional-Order Complex-Valued Memristive Neural Networks With Delays. IEEE Transactions on Cybernetics, 2023, 53, 5815-5825.	6.2	9
6492	Chaotic Dynamics of Third Order Wien Bridge Oscillator with Memristor Under External Generalized Sinusoidal Stimulus. Springer Proceedings in Complexity, 2022, , 1027-1041.	0.2	0
6494	Research on the photoelectric modulation and resistive switching characteristic of ReSe ₂ 2 memtransistor. Wuli Xuebao/Acta Physica Sinica, 2022, .	0.2	0
6495	Exponential Stabilization of Semi-Markov Reaction-Diffusion Memristive NNs via Event-Based Spatially Pointwise-Piecewise Switching Control. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 2655-2666.	7.2	4
6496	Neurochips: An Ethical Consideration. , 2022, , 101-109.		0
6497	Memristor-Based Neural Network Circuit With Multimode Generalization and Differentiation on Pavlov Associative Memory. IEEE Transactions on Cybernetics, 2023, 53, 3351-3362.	6.2	67
6498	A CMOL-Like Memristor-CMOS Neuromorphic Chip-Core Demonstrating Stochastic Binary STDP. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2022, 12, 898-912.	2.7	4
6499	Design of Octonary Memory Cell using Memristor-MOS Hybrid Structure. , 2022, , .		0

#	Article	IF	CITATIONS
6500	Memristor-Based Circuit Design of Non Associative Learning Mechanism. Journal of Nanoelectronics and Optoelectronics, 2022, 17, 505-515.	0.1	0
6501	Design and application of memristor hybrid logic circuit. Scientia Sinica Informationis, 2023, , .	0.2	1
6502	Memristor Based Circuit Design for Liquid State Machine Verified with Temporal Classification. , 2022, , .		3
6503	A Passive Grounded MOSCAP- Memrisor Emulator. , 2022, , .		1
6504	CMOS Memristor Hybrid Circuit based High Speed Low Power Multiplier Design. , 2022, , .		0
6505	Harnessing the Metal–Insulator Transition of VO ₂ in Neuromorphic Computing. Advanced Materials, 2023, 35, .	11.1	23
6506	Quantum Memristors with Quantum Computers. Physical Review Applied, 2022, 18, .	1.5	3
6507	Time-Delay Memristive Recurrent Neural Network and Its Complex Dynamics. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2022, 32, .	0.7	1
6508	Analog and Digital Applications of 4-T Based Memristor Emulator. Lecture Notes in Electrical Engineering, 2023, , 183-194.	0.3	0
6509	Regulating memristive neuronal dynamical properties via excitatory or inhibitory magnetic field coupling. Nonlinear Dynamics, 2022, 110, 3823-3835.	2.7	42
6510	Voltage Differencing Buffered Amplifier (VDBA) Based Grounded Meminductor Emulator. International Journal of Electrical & Electronics Research, 2022, 10, 487-491.	1.0	3
6511	Finite-Time Synchronization of Uncertain Fractional-Order Delayed Memristive Neural Networks via Adaptive Sliding Mode Control and Its Application. Fractal and Fractional, 2022, 6, 502.	1.6	9
6512	Superextreme spiking oscillations and multistability in a memristor-based Hindmarsh–Rose neuron model. Nonlinear Dynamics, 2023, 111, 789-799.	2.7	14
6513	Memristor Emulator Circuits an Emerging Technology with Applications. Lecture Notes in Electrical Engineering, 2023, , 467-479.	0.3	0
6514	VDTA and DO-CCII based incremental/decremental floating memductance/meminductance simulator: A novel realization. The Integration VLSI Journal, 2023, 88, 139-155.	1.3	3
6515	PrMem: Novel flexible biodegradable paper-graphene oxide-based memristor. MRS Bulletin, 2023, 48, 214-227.	1.7	3
6516	Electroâ€Thermal Characterization of Dynamical VO ₂ Memristors via Local Activity Modeling. Advanced Materials, 2023, 35, .	11.1	9
6517	Current Conveyor Transconductance Amplifier (CCTA) based Grounded Memcapacitor Emulator. International Journal of Electrical & Electronics Research, 2022, 10, 442-446.	1.0	2

#	Article	IF	CITATIONS
6518	Advancements in materials, devices, and integration schemes for a new generation of neuromorphic computers. Materials Today, 2022, 59, 80-106.	8.3	11
6519	Investigations on resistive switching effect and time series statistical analysis of solution combustion synthesized ZnTiO3 memristive device. Journal of Materials Science: Materials in Electronics, 2022, 33, 23390-23403.	1.1	5
6520	Full-Inorganic Flexible Ag ₂ S Memristor with Interface Resistance–Switching for Energy-Efficient Computing. ACS Applied Materials & Samp; Interfaces, 2022, 14, 43482-43489.	4.0	16
6521	Manyâ€Body Molecular Interactions in a Memristor. Advanced Materials, 2023, 35, .	11.1	2
6522	An efficient and flexible window function for a memristor model and its analog circuit application. Journal of Computational Electronics, 2022, 21, 1425-1433.	1.3	7
6523	Fixed-Time Control for Memristor-Based Quaternion-Valued Neural Networks with Discontinuous Activation Functions. Cognitive Computation, 2023, 15, 50-60.	3.6	3
6525	Resistive Switching in Ag ₂ Te Semiconductor Modulated by Ag ⁺ â€ion Diffusion and Phase Transition. Advanced Electronic Materials, 2022, 8, .	2.6	4
6526	Chaotic system dynamics analysis and synchronization circuit realization of fractional-order memristor. European Physical Journal: Special Topics, 2022, 231, 3095-3107.	1.2	7
6527	Switching pinning control for memristive neural networks system with Markovian switching topologies. Neural Networks, 2022, 156, 29-38.	3.3	5
6528	A novel hyperchaotic map with sine chaotification and discrete memristor. Chinese Physics B, 2022, 31, 120501.	0.7	6
6529	Neuromorphic artificial intelligence systems. Frontiers in Neuroscience, 0, 16, .	1.4	17
6530	Tripartite Entanglement in Quantum Memristors. Physical Review Applied, 2022, 18, .	1.5	1
6531	Hafızalı Kondansatör Tabanlı Alçak Geçiren Filtrenin Analizi. Bilgisayar Bilimleri, 0, , .	0.0	0
6532	Contact size-dependent switching instabilities in HfO2 RRAM. Journal of Materials Science: Materials in Electronics, 2022, 33, 22230-22243.	1.1	0
6533	Dynamic Effects of a MCNN-CS Under Electromagnetic Induction and Its Application. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2022, 32, .	0.7	0
6534	A memristor-based analogue reservoir computing system for real-time and power-efficient signal processing. Nature Electronics, 2022, 5, 672-681.	13.1	7 5
6535	Probabilistic computing using Cu0.1Te0.9/HfO2/Pt diffusive memristors. Nature Communications, 2022, 13, .	5.8	19
6536	Role of defects in resistive switching dynamics of memristors. MRS Communications, 2022, 12, 531-542.	0.8	2

#	Article	IF	CITATIONS
6537	Generalized model for steady-state bifurcations without parameters in memristor-based oscillators with lines of equilibria. Nonlinear Dynamics, 2023, 111, 1235-1243.	2.7	1
6538	High Conductivity Update Linearity MoS ₂ Memtransistors Array Based on Lithiumâ€lon Modulation. Advanced Materials Interfaces, 0, , 2201775.	1.9	0
6539	Grounded Meminductor Emulator Using Operational Amplifier-Based Generalized Impedance Converter and Its Application in High Pass Filter. International Journal of Electrical & Electronics Research, 2022, 10, 496-500.	1.0	2
6540	Memristive neural network circuit implementation of associative learning with overshadowing and blocking. Cognitive Neurodynamics, 2023, 17, 1029-1043.	2.3	3
6541	The EGM Model and the Winner-Takes-All (WTA) Mechanism for a Memristor-Based Neural Network. Arabian Journal for Science and Engineering, 2023, 48, 6175-6183.	1.7	2
6542	A compact floating and grounded memristor model using single active element. AEU - International Journal of Electronics and Communications, 2022, 157, 154426.	1.7	6
6543	Rulkov neural network coupled with discrete memristors. Network: Computation in Neural Systems, 2022, 33, 214-232.	2.2	13
6544	Simple grounded and floating meminductor emulators based on VDGA and CDBA with application in adaptive learning circuit. Journal of Computational Electronics, 0, , .	1.3	2
6545	Pinning synchronization of stochastic neutral memristive neural networks with reaction–diffusion terms. Neural Networks, 2023, 157, 1-10.	3.3	4
6546	Single OTA-based tunable resistorless grounded memristor emulator and its application. Journal of Computational Electronics, 0, , .	1.3	1
6547	New FTFN-based tunable memristor emulator circuit and its mutation to meminductor and memcapacitor emulators. Journal of Circuits, Systems and Computers, 0, , .	1.0	0
6548	A novel memristor-based chaotic system with infinite coexisting attractors and controllable amplitude. Indian Journal of Physics, 2023, 97, 1159-1167.	0.9	2
6549	Efficient Spectral Graph Convolutional Network Deployment on Memristive Crossbars. IEEE Transactions on Emerging Topics in Computational Intelligence, 2023, 7, 415-425.	3.4	10
6550	Organic Memory Devices. , 2022, , 261-281.		1
6551	An Analytic Model of Electrochemical Metallization Memristor With a Cluster Spontaneous Decay. IEEE Transactions on Electron Devices, 2022, 69, 7083-7088.	1.6	1
6552	Dynamical Analysis of a Three-Dimensional Non-autonomous Chaotic Circuit Based on a Physical Memristor. Advances in Dynamics, Patterns, Cognition, 2022, , 151-173.	0.2	O
6553	Photoelectric modulation and resistive switching characteristic of ReSe ₂ 2 memtransistor. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 217302.	0.2	0
6554	Emerging Devices for Sensing-Memory-Computing Applications. , 2022, , 143-197.		0

#	Article	IF	Citations
6555	Regulation of oxygen vacancy on behaviors of memristors based on amorphous ZnTiSnO films. Journal of Materials Chemistry C, 2022, 10, 17154-17162.	2.7	8
6556	Photovoltaic memristors based on photoelectric synaptic plasticity of a bulk photovoltaic effect device. Journal of Materials Chemistry C, 2022, 10, 17386-17397.	2.7	4
6557	Memristor-Based Apple Feature Recall Network Circuit Application with Emotional Influence. Journal of Nanoelectronics and Optoelectronics, 2022, 17, 688-701.	0.1	0
6558	Fractional-order Memcapacitor Bridge Synapse-Based Neural Network. , 2022, , .		O
6559	Efficient Signaling for Passive Memristive Crossbars to Prepare them for Spiking Neuromorphic Computing. , 2022, , .		0
6560	An accurate tuning model of spintronic memristor with different switching thresholds by logic judgment of domain wall motion. , 2022, , .		O
6561	Analysis of the nonlinear relations of generalized current-controlled fractional order memory elements. , 2022, , .		0
6562	Memristive Neural Network with Efficient In-Situ Supervised Training. , 2022, , .		0
6563	Complex dynamics and applications of memristive devices and systems. , 2022, , .		1
6564	A Nonlinear Approach to Generate Creative Data Using Physarum polycephalum-based Memristors. , 2022, , 39-60.		O
6565	Machine Learning with Quantum Matter: An Example Using Lead Zirconate Titanate. Quantum Reports, 2022, 4, 418-433.	0.6	0
6566	Stochastic Resonance Behavior of FitzHugh-Nagumo Neurons Induced by Electromagnetic Field Driven by Phase Noise. International Journal of Modern Physics C, 0, , .	0.8	O
6567	Neuromorphic Metamaterials for Mechanosensing and Perceptual Associative Learning. Advanced Intelligent Systems, 2022, 4, .	3.3	5
6568	Computational capacity of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>L</mml:mi><mml:mi>R</mml:mi>, memristive, and hybrid reservoirs. Physical Review E, 2022, 106, .</mml:mrow></mml:math>	< nonæl: mi > (C ∉ mml:mi>
6569	Memristorâ€Based Intelligent Human‣ike Neural Computing. Advanced Electronic Materials, 2023, 9, .	2.6	16
6570	A Multistable Memristor and Its Application in Fractional-Order Hopfield Neural Network. Brazilian Journal of Physics, 2022, 52, .	0.7	2
6571	Memristor Degradation Analysis Using Auxiliary Volt-Ampere Characteristics. Micromachines, 2022, 13, 1691.	1.4	2
6572	Atomic-scale tuning of ultrathin memristors. Communications Physics, 2022, 5, .	2.0	3

#	Article	IF	CITATIONS
6573	Discretized locally active memristor and application in logarithmic map. Nonlinear Dynamics, 2023, 111, 2895-2915.	2.7	28
6574	Intelligent Control of Seizure-Like Activity in a Memristive Neuromorphic Circuit Based on the Hodgkin–Huxley Model. Journal of Low Power Electronics and Applications, 2022, 12, 54.	1.3	1
6575	Analog Memristor-Based Dynamic Programmable Analog Filter. Journal of Physics: Conference Series, 2022, 2356, 012008.	0.3	1
6576	Bifurcation, chaos, and circuit realisation of a new four-dimensional memristor system. International Journal of Nonlinear Sciences and Numerical Simulation, 2023, 24, 2639-2648.	0.4	17
6577	Essential Characteristics of Memristors for Neuromorphic Computing. Advanced Electronic Materials, 2023, 9, .	2.6	21
6578	Dynamics and chimera state in a neural network with discrete memristor coupling. European Physical Journal: Special Topics, 2022, 231, 4065-4076.	1.2	15
6579	Boundary dynamics of a non-smooth memristive Hindmarsh–Rose neuron system. Chaos, 2022, 32, .	1.0	12
6580	Filament Formation in TaO <i></i> > Thin Films for Memristor Device Application: Modeling Electron Energy Loss Spectra and Electron Transport. Advanced Electronic Materials, 2023, 9, .	2.6	4
6581	Memristive switching in two-dimensional BiSe crystals. Nano Research, 2023, 16, 3188-3194.	5.8	1
6582	Reservoir Computing-Based Design of ZnO Memristor-Type Digital Identification Circuits. Micromachines, 2022, 13, 1700.	1.4	1
6583	Stability of Memristor-based Fractional-order Neural Networks with Mixed Time-delay and Impulsive. Neural Processing Letters, 0, , .	2.0	2
6584	Bio-based Materials in Bioelectronics. , 2023, , 55-119.		0
6585	Optimization of Power-Aware Non-Linearity in Voltage-Controlled Resistive Switching Devices for Non-Volatile Memory Applications. IETE Journal of Research, 0, , 1-12.	1.8	1
6586	A Cubic Memristive System with Two Twin Rössler-Type Chaotic Attractors Symmetrical About an Invariant Plane. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2022, 32, .	0.7	1
6587	Four-dimensional Hindmarsh–Rose neuron model with hidden firing multistability based on two memristors. Physica Scripta, 2022, 97, 125203.	1.2	5
6588	Fixed/Predefined-time synchronization of memristor-based complex-valued BAM neural networks for image protection. Frontiers in Neurorobotics, 0, 16 , .	1.6	3
6589	Energy and Space Efficient Parallel Adder Using Molecular Memristors. Advanced Materials, 2023, 35, .	11.1	1
6590	Minimal realizations of integrable memristor emulators. Journal of Computational Electronics, 0, , .	1.3	2

#	Article	IF	CITATIONS
6591	Porphyrinâ∈Based Metal–Organic Frameworks for Neuromorphic Electronics. Small Structures, 2023, 4, .	6.9	18
6592	Experimentally validated memristive memory augmented neural network with efficient hashing and similarity search. Nature Communications, 2022, 13, .	5.8	16
6593	Extended and Generic Higher-Order Elements for MEMS Modeling. Sensors, 2022, 22, 8007.	2.1	1
6594	Global studies on a continuous planar piecewise linear differential system with three zones. Nonlinear Dynamics, 0, , .	2.7	O
6595	Convergence of Neural Networks with a Class of Real Memristors with Rectifying Characteristics. Mathematics, 2022, 10, 4024.	1.1	0
6596	Metal Halide Perovskite/Electrode Contacts in Chargeâ€Transportingâ€Layerâ€Free Devices. Advanced Science, 2022, 9, .	5.6	11
6597	Memristor based object detection using neural network. High-Confidence Computing, 2022, 2, 100085.	2.2	2
6598	Improved Performance of the Al ₂ O ₃ -Protected HfO ₂ â€"TiO ₂ Base Layer with a Self-Assembled CH ₃ NH ₃ Pbl ₃ Heterostructure for Extremely Low Operating Voltage and Stable Filament Formation in Nonvolatile Resistive Switching Memory. ACS Applied	4.0	7
6599	Protocol-based fault detection for discrete-time memristive neural networks with quantization effect. Information Sciences, 2022, 615, 118-135.	4.0	6
6600	Emotion-based behavioral inhibition and self-repairing memristive circuit. AEU - International Journal of Electronics and Communications, 2022, 157, 154424.	1.7	2
6601	Initial-offset boosted dynamics in memristor-sine-modulation-based system and its image encryption application. AEU - International Journal of Electronics and Communications, 2022, 157, 154440.	1.7	6
6602	Finite/fixed-time synchronization of memristive neural networks via event-triggered control. Knowledge-Based Systems, 2022, 258, 110013.	4.0	14
6603	Recurrence quantification and bifurcation analysis of electrical activity in resistive/memristive synapse coupled Fitzhugh–Nagumo type neurons. Chaos, Solitons and Fractals, 2022, 165, 112772.	2.5	4
6604	New memristor-less, resistor-less, two-OTA based grounded and floating meminductor emulators and their applications in chaotic oscillators. The Integration VLSI Journal, 2023, 88, 173-184.	1.3	7
6605	A new CCII based meminductor emulator circuit and its experimental results. AEU - International Journal of Electronics and Communications, 2023, 158, 154450.	1.7	4
6606	A direct analysis method to Lagrangian global exponential stability for quaternion memristive neural networks with mixed delays. Applied Mathematics and Computation, 2023, 439, 127633.	1.4	7
6607	Resistive switching of two-dimensional NiAl-layered double hydroxides and memory logical functions. Journal of Alloys and Compounds, 2023, 933, 167745.	2.8	3
6608	CellularFlow: Memristive Circuits of Gyrator Neurons toward Brain Circuits. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2022, , 1-1.	2.7	0

#	Article	IF	Citations
6609	Memristor-Based Circuit Demonstration of Gated Recurrent Unit for Predictable Neural Network. IEEE Transactions on Electron Devices, 2022, 69, 6763-6768.	1.6	1
6610	Design of multilayer cellular neural network based on memristor crossbar and its application to edge detection. Journal of Systems Engineering and Electronics, 2023, 34, 641-649.	1.1	0
6611	A High Frequency MOS-Based Floating Charge-Controlled Memcapacitor Emulator. IEEE Transactions on Circuits and Systems II: Express Briefs, 2023, 70, 1189-1193.	2.2	3
6612	Single Event Upsets Under Proton, Thermal, and Fast Neutron Irradiation in Emerging Nonvolatile Memories. IEEE Access, 2022, 10, 114566-114585.	2.6	3
6613	Embedding the dynamics of forced nonlinear systems in multistable memristor circuits. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2022, , 1-1.	2.7	0
6614	Memristor Neural Network Circuit Based on Operant Conditioning With Immediacy and Satiety. IEEE Transactions on Biomedical Circuits and Systems, 2022, 16, 1095-1105.	2.7	6
6615	A Predictive Approach for Conditional Execution of Memristive Material Implication Stateful Logic Operations. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2022, 12, 878-887.	2.7	1
6616	Recent advances in perovskites-based optoelectronics. Nanotechnology Reviews, 2022, 11, 3063-3094.	2.6	2
6617	Comparison of Memristor-Based SRAM Cells at Subthreshold Voltage. Lecture Notes in Electrical Engineering, 2022, , 441-453.	0.3	1
6618	Exponential Synchronization of Second-order Fuzzy Memristor-based Neural Networks with Mixed Time Delays via Fuzzy Adaptive Control. IEEE Transactions on Fuzzy Systems, 2022, , 1-13.	6.5	3
6619	Stability Criteria of Delayed Memristor-Based Neural Networks via Continuous-Time Model and Interval Matrix Approach. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2023, 53, 2716-2725.	5.9	1
6620	An Optimized MOS-Based High Frequency Charge-Controlled Memcapacitor Emulator. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2022, 12, 793-803.	2.7	4
6621	A Flux Controlled MOS-Based Optimized High Frequency Meminductor Emulator. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2022, 12, 774-784.	2.7	3
6622	Mott Memristors and Neuronal Ion Channels: A Qualitative Analysis. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2022, 12, 762-773.	2.7	2
6623	Emergence of electric field-induced conducting states in single-crystalline MoTe <mml:math altimg="si32.svg" display="inline" id="d1e410" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow></mml:mrow><mml:mrow></mml:mrow></mml:msub></mml:math> nanoflakes and its application in memristive devices. Applied Surface Science, 2023, 610, 155409.	3.1	3
6624	Wave Cellular Automata for Computing Applications. , 2022, , .		2
6625	A Wide Dynamic Range Read-out System For Resistive Switching Technology. , 2022, , .		2
6626	A High-Voltage Characterisation Platform For Emerging Resistive Switching Technologies. , 2022, , .		0

#	Article	IF	CITATIONS
6627	Performance Analysis of Memristive-CNN based on a VCM Device Model., 2022,,.		1
6628	A tool for emulating neuromorphic architectures with memristive models and devices. , 2022, , .		0
6629	A Fully Memristive Spiking Neural Network with Unsupervised Learning. , 2022, , .		3
6630	HYPERLOCK: In-Memory Hyperdimensional Encryption in Memristor Crossbar Array. , 2022, , .		5
6631	MatPIM: Accelerating Matrix Operations with Memristive Stateful Logic. , 2022, , .		0
6632	Reliability Improvement in RRAM-based DNN for Edge Computing. , 2022, , .		2
6633	Deep Memristive Cellular Neural Networks for Image Classification. , 2022, , .		1
6634	Hysteresis Associated with Intrinsic-Oxide Traps in Gate-Tunable Tetrahedral CVD-MoS2 Memristor. , 2022, , .		2
6635	Implementation of IMPLY-based Memristive Subtractor., 2022,,.		1
6636	Unconventional Logic on Unipolar CBRAM Based Oscillators. , 2022, , .		O
6637	A resistance switching device exhibiting potentiation and depression under the same voltage polarity. , 2022, , .		0
6638	Drift Speed Adaptive Memristor SPICE Model Implementation and Applications in Logic Circuits. , 2022, , .		0
6639	Exploring an On-Chip Sensor to Detect Unique Faults in RRAMs. , 2022, , .		2
6640	How can ferroelectricity improve the performance of thin-layer memristors?., 2022,,.		0
6641	Synchronization of a Fourth-order Hyperchaotic System by Intermittent Control with Double Impulses. , 2022, , .		0
6642	Unlocking High Resolution Arithmetic Operations within Memristive Crossbars for Error Tolerant Applications. , 2022, , .		0
6643	A Switching Event-Triggered Approach to Proportional Integral Synchronization Control for Complex Dynamical Networks. , 2022, , .		7
6644	Simulation of Half-Center Oscillator Circuits Employing Newly Developed Models of Fabricated Memristors. , 2022, , .		O

#	Article	IF	CITATIONS
6645	An FPGA-based memristor emulator for artificial neural network. Microelectronics Journal, 2023, 131, 105639.	1.1	7
6646	From chaos to encryption using fractional order Lorenz-Stenflo model with flux-controlled feedback memristor. Physica Scripta, 2023, 98, 014002.	1.2	5
6647	Bioderived materials for stimuli-responsive, adaptive, and neuromorphic systems: A perspective. Journal of Composite Materials, 2023, 57, 659-678.	1.2	1
6648	Controlling sulfurization of 2D Mo2C crystal for Mo2C/MoS2-based memristor and artificial synapse. Npj Flexible Electronics, 2022, 6, .	5.1	8
6649	New fixed-time stability criterion and fixed-time synchronization of neural networks via non-chattering control. Neural Computing and Applications, 2023, 35, 6029-6041.	3.2	3
6650	FinFET-based non-linear analog signal processing modules. Microelectronics Journal, 2023, 131, 105626.	1.1	1
6651	Synchronization and chimera in a multiplex network of Hindmarsh–Rose neuron map with flux-controlled memristor. European Physical Journal: Special Topics, 2022, 231, 4131-4141.	1.2	6
6652	Synthesis of memristive one-ports with piecewise-smooth characteristics. International Journal of Electronics Letters, 2024, 12, 59-68.	0.7	2
6653	Resistive-Switching Memories. Springer Handbooks, 2023, , 1043-1092.	0.3	0
6654	Redox memristors with volatile threshold switching behavior for neuromorphic computing. Journal of Electronic Science and Technology, 2022, 20, 100177.	2.0	4
6655	Recent advances in 2D organicâ^inorganic heterostructures for electronics and optoelectronics. SmartMat, 2023, 4, .	6.4	15
6656	Analysis and Realization of New Memristive Chaotic System with Line Equilibria and Coexisting Attractors. Journal of Vibration Engineering and Technologies, 0, , .	1.3	0
6657	Stability and pinning synchronization of delayed memristive neural networks with fractional-order and reaction–diffusion terms. ISA Transactions, 2023, 136, 114-125.	3.1	2
6658	Emerging MXeneâ€Based Memristors for Inâ€Memory, Neuromorphic Computing, and Logic Operation. Advanced Functional Materials, 2023, 33, .	7.8	32
6659	Emulating Epileptic Seizures on Coupled Chua's Circuit Networks. Symmetry, 2022, 14, 2325.	1.1	3
6660	Dynamical Analysis of a Novel Fractional-Order Chaotic System Based on Memcapacitor and Meminductor. Fractal and Fractional, 2022, 6, 671.	1.6	21
6661	A Novel Memristor Model for the Nonlinear Memristor Devices. Transactions on Electrical and Electronic Materials, 0, , .	1.0	0
6662	Memristive/CMOS Devices for Neuromorphic Applications. Springer Handbooks, 2023, , 1167-1199.	0.3	0

#	Article	IF	CITATIONS
6663	A hybrid memristor with oxide-polymer heterojunction. Applied Physics Letters, 2022, 121, .	1.5	6
6664	Spin-Based Devices for Digital Applications. Springer Handbooks, 2023, , 1123-1166.	0.3	0
6665	Advanced synaptic devices and their applications in biomimetic sensory neural system., 2023, 2, 100031.		7
6666	Synchronization of memristor-based complex-valued neural networks with time-varying delays. Computational and Applied Mathematics, 2022, 41, .	1.0	3
6667	Bridge Memristor Super-Resolution Crossbars. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2022, 12, 944-951.	2.7	2
6668	Adaptive fixed-time synchronization of stochastic memristor-based neural networks with discontinuous activations and mixed delays. Journal of the Franklin Institute, 2023, 360, 3364-3388.	1.9	5
6669	Forgetting memristor based STDP learning circuit for neural networks. Neural Networks, 2023, 158, 293-304.	3.3	12
6670	Exploring Neuromorphic Computing Based on Spiking Neural Networks: Algorithms to Hardware. ACM Computing Surveys, 2023, 55, 1-49.	16.1	19
6672	Cobalt oxide nanoparticles embedded in borate matrix: A conduction mode atomic force microscopy approach to induce nano-memristor switching for neuromorphic applications. Applied Materials Today, 2022, 29, 101691.	2.3	13
6673	On Memristors for Enabling Energy Efficient and Enhanced Cognitive Network Functions. IEEE Access, 2022, 10, 129279-129312.	2.6	6
6674	Memristor synapse-coupled piecewise-linear simplified Hopfield neural network: Dynamics analysis and circuit implementation. Chaos, Solitons and Fractals, 2023, 166, 112899.	2.5	55
6675	A MOS-DTMOS Implementation of Floating Memristor Emulator for High-Frequency Applications. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2023, 31, 355-368.	2.1	5
6676	Memristive Autapse-Coupled Neuron Model With External Electromagnetic Radiation Effects. IEEE Transactions on Industrial Electronics, 2023, 70, 11618-11627.	5.2	15
6677	Memristor-Based Logic Circuit Design Applications. , 2023, , 497-509.		0
6678	A Memristive Spiking Neural Network Circuit With Selective Supervised Attention Algorithm. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2023, 42, 2604-2617.	1.9	19
6679	Ion Intercalation Enabled Tunable Frequency Response in Lithium Niobite Memristors. IEEE Transactions on Electron Devices, 2023, 70, 776-781.	1.6	2
6680	Memristive Circuit Design of Quantized Convolutional Auto-Encoder. IEEE Transactions on Emerging Topics in Computational Intelligence, 2023, 7, 1301-1313.	3.4	1
6681	Impact of steady state and impulse excitations on CuSO4 based memristor. Engineering Science and Technology, an International Journal, 2023, 37, 101297.	2.0	0

#	Article	IF	CITATIONS
6682	On Side-Channel Analysis of Memristive Cryptographic Circuits. IEEE Transactions on Information Forensics and Security, 2023, 18, 463-476.	4.5	2
6683	A discrete memristive neural network and its application for character recognition. Neurocomputing, 2023, 523, 1-8.	3.5	20
6684	Delay-dependent and order-dependent conditions for stability and stabilization of fractional-order memristive neural networks with time-varying delays. Neurocomputing, 2023, 522, 53-63.	3.5	7
6685	A hyperchaotic map with a new discrete memristor model: Design, dynamical analysis, implementation and application. Chaos, Solitons and Fractals, 2023, 167, 113024.	2.5	40
6686	Dynamical structural phase transition model of the electrical behavior of NiTi. Physica B: Condensed Matter, 2023, 650, 414518.	1.3	0
6687	Extreme multistability and amplitude modulation in memristive chaotic system and application to image encryption. Optik, 2023, 272, 170407.	1.4	9
6688	Pinning synchronization of fractional memristor-based neural networks with neutral delays and reaction–diffusion terms. Communications in Nonlinear Science and Numerical Simulation, 2023, 118, 107039.	1.7	6
6689	Study of the dynamical behavior of an Ikeda-based map with a discrete memristor. The Integration VLSI Journal, 2023, 89, 168-177.	1.3	6
6690	Generating Grid Multi-Scroll Attractors in Memristive Neural Networks. IEEE Transactions on Circuits and Systems I: Regular Papers, 2023, 70, 1324-1336.	3.5	53
6691	Bootstrapping Neural Electronics from Lunar Resources for In-Situ Artificial Intelligence Applications. Lecture Notes in Computer Science, 2022, , 83-97.	1.0	0
6692	Transition from synaptic simulation to nonvolatile resistive switching behavior based on an Ag/Ag:ZnO/Pt memristor. RSC Advances, 2022, 12, 33634-33640.	1.7	2
6693	The Focus-Saddle Boundary Bifurcation. RSME Springer Series, 2022, , 175-197.	0.1	0
6694	Ferroelectric Memory., 2023,, 218-240.		0
6695	Privacy Protection of Medical Data Based on Multi-Scroll Memristive Hopfield Neural Network. IEEE Transactions on Network Science and Engineering, 2023, 10, 845-858.	4.1	66
6696	High Frequency Response of Non-Volatile Memristors. IEEE Transactions on Circuits and Systems I: Regular Papers, 2023, 70, 566-578.	3.5	8
6697	Intermittent Exponential Synchronization for Memristor-Based Neural Networks With Inertial Items and Mixed Time-Varying Delays. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2023, 53, 2925-2937.	5.9	2
6698	Comparison of Memristor Mathematical Models. , 2022, , .		0
6699	A High-Frequency Flux Controlled Grounded Memristor Emulator. , 2022, , .		O

#	Article	IF	CITATIONS
6700	A Flash-based Digital to Analog Converter for Low Power Applications. , 2022, , .		2
6701	Balanced Ternary Logic Gates with Memristors. , 2022, , .		2
6702	Photon-Memristive Device for Neuromorphic Computing., 2022,,.		0
6703	Synthesis of Nonlinear Impedance Converters for Emulating Memory Elements. , 2022, , .		O
6704	A Physical Reservoir Computing Model Based on Volatile Memristor for Temporal Signal Processing. , 2022, , .		0
6705	Memristive Circuit Design of Nonassociative Learning under Different Emotional Stimuli. Electronics (Switzerland), 2022, 11, 3851.	1.8	1
6706	Aerosol Jet Printed Organic Memristive Microdevices Based on a Chitosan:PANI Composite Conductive Channel. ACS Applied Electronic Materials, 0, , .	2.0	2
6707	Initial-condition parameterization and dynamical effect of a dual-memelement-based oscillation circuit. European Physical Journal Plus, 2022, 137, .	1.2	2
6708	Recent advances in neuromorphic transistors for artificial perception applications. Science and Technology of Advanced Materials, 2023, 24, .	2.8	19
6709	High-Performance Memristors Based on Bi2Te3. Journal of Electronic Materials, 2023, 52, 1242-1249.	1.0	2
6710	Charge Transport inside TiO2 Memristors Prepared via FEBID. Nanomaterials, 2022, 12, 4145.	1.9	3
6711	Unexpected Analog Signal Change Detector Based on Memristive System. , 2022, , .		0
6713	Dual Port Component Emulator and its usage for Electronic Equipment Functional Verification. , 2022, , .		0
6714	Fault Securing Techniques for Yield and Reliability Enhancement of RRAM. , 2022, , .		1
6715	Memristive Circuit Design of Sequencer Network for Human Emotion Classification. , 2022, , .		0
6716	A Universal Electronically Controllable Memelement Emulator Based on VDCC with Variable Configuration. Electronics (Switzerland), 2022, 11, 3957.	1.8	3
6717	Hopf bifurcation and phase synchronization in memristor-coupled Hindmarsh–Rose and FitzHugh–Nagumo neurons with two time delays. Chinese Physics B, 2023, 32, 038701.	0.7	9
6718	An adaptive memristive dynamical system to nonsmooth optimization problems. Nonlinear Dynamics, 2023, 111, 4451-4468.	2.7	1

#	Article	IF	CITATIONS
6719	Threeâ€Dimensional Reconstruction of Conductive Filaments in HfO _x â€Based Memristor. Advanced Materials, 2023, 35, .	11.1	19
6720	Metal–Organic Frameworks–Based Memristors: Materials, Devices, and Applications. Molecules, 2022, 27, 8888.	1.7	3
6721	Artificial Intelligence and Advanced Materials. Advanced Materials, 2023, 35, .	11.1	10
6722	Stop and go strategy for Lagrange stability of quaternionâ€valued memristive neural networks. Mathematical Methods in the Applied Sciences, 0, , .	1.2	0
6723	Deviceâ€System Endâ€toâ€End Design of Photonic Neuromorphic Processor Using Reinforcement Learning. Laser and Photonics Reviews, 2023, 17, .	4.4	3
6724	New results on stabilization of complex-valued second-order Memristive neural networks with mixed delays and discontinuous activations functions. Computational and Applied Mathematics, 2022, 41, .	1.0	5
6725	Advancement in Soft Iontronic Resistive Memory Devices and Their Application for Neuromorphic Computing. Advanced Intelligent Systems, 2023, 5, .	3.3	10
6726	Spray deposition of the nanostructured ZnO thin films for non-volatile resistive switching memory applications. Applied Physics A: Materials Science and Processing, 2023, 129, .	1.1	5
6727	State Estimation of Memristor Neural Networks with Model Uncertainties. Machines, 2022, 10, 1228.	1.2	1
6728	Characteristic Analysis and Circuit Implementation of a Novel Fractional-Order Memristor-Based Clamping Voltage Drift. Fractal and Fractional, 2023, 7, 2.	1.6	22
6729	Quasi-bipartite synchronization of heterogeneous memristive neural networks via pinning control. Neural Computing and Applications, 2023, 35, 7801-7815.	3.2	1
6730	A Memristor-Based Colpitts Oscillator Circuit. Mathematics, 2022, 10, 4820.	1.1	4
6731	Gradient-Based Neuromorphic Learning on Dynamical RRAM Arrays. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2022, 12, 888-897.	2.7	11
6732	Performance Evaluation of Low Power Hybrid Combinational Circuits using Memristor. International Journal of Electrical & Electronics Research, 2022, 10, 988-993.	1.0	1
6733	Recent Progress and Challenges of Bismuthâ€Based Halide Perovskites for Emerging Optoelectronic Applications. Advanced Optical Materials, 2023, 11, .	3.6	19
6734	TiO2 nanotubes fabricated by electrochemical anodization in molten o-H3PO4-based electrolyte: Properties and applications. Current Opinion in Colloid and Interface Science, 2023, 63, 101672.	3.4	5
6735	Insights into nonvolatile resistive switching in monolayer hexagonal boron nitride. Journal of Applied Physics, 2022, 132, .	1.1	3
6736	Multistability Dynamics Analysis and Digital Circuit Implementation of Entanglement-Chaos Symmetrical Memristive System. Symmetry, 2022, 14, 2586.	1.1	5

#	Article	IF	CITATIONS
6738	Dynamic Analysis and Chaotic Suppression of Cuk Converter under Memristor Load. Journal of Physics: Conference Series, 2022, 2383, 012046.	0.3	0
6739	Design of 1T2M integration of storage and calculation based on threshold memristor. Journal of Physics: Conference Series, 2022, 2383, 012057.	0.3	0
6740	Three-Stage-Impulse Control of Memristor-Based Chen Hyper-Chaotic System. Mathematics, 2022, 10, 4560.	1.1	6
6741	Rössler-like Neuronal Firing with Local Amplitude Control. Mathematical Problems in Engineering, 2022, 2022, 1-14.	0.6	3
6742	Multi-State Memristors and Their Applications: An Overview. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2022, 12, 723-734.	2.7	15
6743	Spiking Neuron Implementation Using a Novel Floating Memcapacitor Emulator. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2022, 32, .	0.7	1
6744	Ferroelectric memristor based on Li-doped BiFeO3 for information processing. Applied Physics Letters, 2022, 121, .	1.5	2
6745	Evidence for long-term potentiation in phospholipid membranes. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119 , .	3.3	11
6746	A 1T2M memristor-based logic circuit and its applications. Microelectronics Journal, 2023, 132, 105674.	1.1	4
6747	Three State Output Module and Digital Switch Circuit Based on Threshold Memristor. Journal of Physics: Conference Series, 2022, 2395, 012021.	0.3	0
6748	A Scalable Neuristor Based on a Half-Wave Memristor Emulator. Journal of Circuits, Systems and Computers, 2023, 32, .	1.0	1
6749	Random Number Generation With a Hybrid Conjugated Polymer Memristor. IEEE Transactions on Electron Devices, 2023, 70, 726-731.	1.6	0
6750	ReRAM-Based Neuromorphic Computing. , 2023, , 43-65.		1
6751	MEMRISTOR-BASED LSTM NETWORK FOR TEXT CLASSIFICATION. Fractals, 2023, 31, .	1.8	32
6752	Hidden multistability of fractional discrete non-equilibrium point memristor based map. Physica Scripta, 2023, 98, 035213.	1.2	21
6753	Image encryption and watermarking in ACO-OFDM-VLC system employing novel memristive hyperchaotic map. Soft Computing, 2023, 27, 4521-4542.	2.1	7
6754	Dynamic Behavior Analysis and Synchronization of Memristor-Coupled Heterogeneous Discrete Neural Networks. Mathematics, 2023, 11, 375.	1.1	35
6755	Photonic online learning: a perspective. Nanophotonics, 2023, 12, 833-845.	2.9	6

#	Article	IF	Citations
6756	New Zero Power Memristor Emulator Model and Its Application in Memristive Neural Computation. IEEE Access, 2023, 11, 5609-5616.	2.6	3
6757	Synchronization analysis of fractional delayed memristive neural networks via event-based hybrid impulsive controllers. Neurocomputing, 2023, 528, 75-83.	3.5	1
6758	Long-term memory and synapse-like dynamics in two-dimensional nanofluidic channels. Science, 2023, 379, 161-167.	6.0	67
6759	A review of memristor: material and structure design, device performance, applications and prospects. Science and Technology of Advanced Materials, 2023, 24, .	2.8	24
6760	Memristive chaotic circuits and systems. European Physical Journal Plus, 2023, 138, .	1.2	0
6761	Neuromorphic functions with a polyelectrolyte-confined fluidic memristor. Science, 2023, 379, 156-161.	6.0	72
6762	An Energy-Efficient Hybrid SRAM-Based In-Memory Computing Macro for Artificial Intelligence Edge Devices. Circuits, Systems, and Signal Processing, 2023, 42, 3589-3616.	1.2	1
6763	Hybrid Silicon Substrate FinFET-Metal Insulator Metal (MIM) Memristor Based Sense Amplifier Design for the Non-Volatile SRAM Cell. Micromachines, 2023, 14, 232.	1.4	3
6764	Bio-plausible memristive neural components towards hardware implementation of brain-like intelligence. Materials Today, 2023, 62, 251-270.	8.3	10
6765	Resistive switching in neem (Azadirachta indica) thin film for a cost-effective and washable biomemristor. Journal of Materials Science: Materials in Electronics, 2023, 34, .	1.1	3
6766	Organic Memristor Based on High Planar Cyanostilbene/Polymer Composite Films. Chemical Research in Chinese Universities, 0, , .	1.3	1
6767	Special Issue Editorial: "Discrete and Continuous Memristive Nonlinear Systems and Symmetry― Symmetry, 2023, 15, 167.	1.1	0
6768	Bilayer Lipid Membrane as Memcapacitance: Capacitance–Voltage Pinched Hysteresis and Negative Insertion Conductance. Membranes, 2023, 13, 97.	1.4	2
6769	An artificial synapse based on molecular junctions. Nature Communications, 2023, 14, .	5.8	14
6770	Precursor-dependent resistiveÂswitching properties of nanostructuredÂg-C3N4: statistical and experimental investigations. Journal of Materials Science: Materials in Electronics, 2023, 34, .	1.1	8
6771	Threshold-type memristor-based crossbar array design and its application in handwritten digit recognition. Journal of Systems Engineering and Electronics, 2023, 34, 324-334.	1.1	1
6772	Ultralow-Power Implementation of Neural Networks Using Inverter-Based Memristive Crossbars. , 2023, , 327-385.		0
6773	Photoelectric Memristor-Based Machine Vision for Artificial Intelligence Applications., 2023, 5, 504-526.		28

#	Article	IF	Citations
6774	Interface engineering of amorphous gallium oxide crossbar array memristors for neuromorphic computing. Japanese Journal of Applied Physics, 2023, 62, SC1035.	0.8	4
6775	Low-Dimensional-Materials-Based Flexible Artificial Synapse: Materials, Devices, and Systems. Nanomaterials, 2023, 13, 373.	1.9	8
6776	Memristor-Based Light-Weight Transformer Circuit Implementation for Speech Recognizing. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2023, 13, 344-356.	2.7	1
6778	Neuromorphic Computing: A Path to Artificial Intelligence Through Emulating Human Brains. , 2023, , 259-296.		5
6779	Multistability and Phase Synchronization of Rulkov Neurons Coupled with a Locally Active Discrete Memristor. Fractal and Fractional, 2023, 7, 82.	1.6	35
6780	Resistive tunable memristor emulator model and its application. AEU - International Journal of Electronics and Communications, 2023, 160, 154500.	1.7	5
6781	Binary metal oxide-based resistive switching memory devices: A status review. Materials Today Communications, 2023, 34, 105356.	0.9	12
6782	Fully fixed-point integrated digital circuit design of discrete memristive systems. AEU - International Journal of Electronics and Communications, 2023, 161, 154522.	1.7	5
6783	Nonvolatile resistive switching memory behavior in WOx/BiFeOy heterojunction based memristor. Journal of Alloys and Compounds, 2023, 939, 168761.	2.8	8
6784	Global dynamics of diffusive Hindmarsh–Rose equations with memristors. Nonlinear Analysis: Real World Applications, 2023, 71, 103827.	0.9	2
6785	Unlocking Sneak Path Analysis in Memristor Based Logic Design Styles. , 2022, , .		0
6786	Design of a new floating memristance based on Current Feedback Opamps using the commercially available IC's., 2022,,.		0
6787	Emulated Memristive System Based Passive MIN/MAX Circuit. , 2022, , .		0
6788	Design of Variance-Constrained H _{â^ž} State Estimation Algorithm for Delayed Memristive Neural Networks with Attacks: An Adaptive Event-Triggered Approach. , 2022, , .		0
6789	Memristor based Reservoir Network for Chaotic Time Series Prediction. , 2022, , .		0
6790	Single DXCCTA based Charge Controlled Floating Incremental/Decremental Memristor Emulator. , 2022, , .		1
6791	Switching-Jumps-Dependent Quasi-Synchronization Criteria for Fractional-Order Memrisive Neural Networks. Fractal and Fractional, 2023, 7, 12.	1.6	0
6792	RRAM, Device, Model and Memory., 2022, , .		0

#	ARTICLE	IF	CITATIONS
6793	Capacitive Effects of Memristive Structure Composed of Multi-walled CNT and Sodium Alginate Under DC Offset. Journal of Electronic Materials, 0, , .	1.0	0
6794	Unconventional Memristive Nanodevices. IEEE Nanotechnology Magazine, 2022, 16, 34-45.	0.9	4
6795	Unconventional Computing With Memristive Nanocircuits. IEEE Nanotechnology Magazine, 2022, 16, 22-33.	0.9	1
6796	Memristors Threshold Based Physical Unclonable Function. , 2022, , .		0
6797	Passive Selectorless Memristive Structure with One Capacitor-One Memristor., 2022,,.		1
6799	2D heterostructures for advanced logic and memory devices. , 2023, , 141-167.		0
6800	Restoring Sanity: The Memristor Test. SpringerBriefs in Physics, 2023, , 41-52.	0.2	0
6801	Application of nanoscale devices in circuits. , 2023, , 359-384.		0
6802	Logic Gates Using Memristor-Aided Logic for Neuromorphic Applications. Lecture Notes in Networks and Systems, 2023, , 465-478.	0.5	0
6803	Anniversary issues. Nature Electronics, 2023, 6, 1-1.	13.1	1
6804	A novel second generation current conveyor (CCII)-based high frequency memristor model. Microelectronic Engineering, 2023, 271-272, 111938.	1.1	0
6805	Nanowire memristor as artificial synapse in random networks. , 2023, , 219-246.		1
6806	Halide perovskite photoelectric artificial synapses: materials, devices, and applications. Nanoscale, 2023, 15, 4653-4668.	2.8	10
6807	Perovskite-based emerging memories. , 2023, , 401-484.		O
6808	Emerging non-CMOS devices and technologies. , 2023, , 263-303.		0
6809	Resistorless Floating/Grounded Memristor Emulator Model With Electronic Tunability. IEEE Transactions on Circuits and Systems II: Express Briefs, 2023, 70, 2340-2344.	2.2	O
6810	A memristor-based associative memory neural network circuit with emotion effect. Neural Computing and Applications, 2023, 35, 10929-10944.	3.2	7
6811	Modeling and hardware implementation of universal interface-based floating fractional-order mem-elements. Chaos, 2023, 33, 013141.	1.0	1

#	Article	IF	CITATIONS
6812	Almost periodic solutions of memristive multidirectional associative memory neural networks with mixed time delays. International Journal of Biomathematics, 2024 , 17 , .	1.5	1
6813	The Coupled Reactance-Less Memristor Based Relaxation Oscillators for Binary Oscillator Networks. Micromachines, 2023, 14, 365.	1.4	2
6814	A Kind of Optoelectronic Memristor Model and Its Applications in Multi-Valued Logic. Electronics (Switzerland), 2023, 12, 646.	1.8	1
6815	Advanced Optoelectronic Devices for Neuromorphic Analog Based on Lowâ€Dimensional Semiconductors. Advanced Functional Materials, 2023, 33, .	7.8	23
6816	A new mix chaotic circuit based on memristor–memcapacitor. European Physical Journal Plus, 2023, 138, .	1.2	18
6817	Dynamical Analysis and Synchronization of a New Memristive Chialvo Neuron Model. Electronics (Switzerland), 2023, 12, 545.	1.8	12
6818	Memristor-Based CMOS Hybrid Circuit Design and Analysis. Procedia Computer Science, 2023, 218, 563-573.	1.2	2
6819	Automated Equivalence Checking Method for Majority Based In-Memory Computing on ReRAM Crossbars., 2023,,.		4
6820	Memory Computing onÂtheÂEdge ofÂChaos. Studies in Computational Intelligence, 2023, , 133-144.	0.7	0
6821	All oxide based flexible multi-folded invisible synapse as vision photo-receptor. Scientific Reports, 2023, 13, .	1.6	10
6822	The Sociology of the Field and Lesson to Be Learned. SpringerBriefs in Physics, 2023, , 53-59.	0.2	0
6823	Applications of MXene-based memristors in neuromorphic intelligence applications. Contemporary Physics, 0, , 1-19.	0.8	1
6824	Spiking Neuron Mathematical Models: A Compact Overview. Bioengineering, 2023, 10, 174.	1.6	9
6825	Double Dielectric Layer Metal-oxide Memristor: Design and Applications. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2023, , 760.	0.6	0
6826	Physical Constraints for Ideal Memelements. SpringerBriefs in Physics, 2023, , 29-39.	0.2	0
6827	Reality Versus Fiction. SpringerBriefs in Physics, 2023, , 13-28.	0.2	1
6828	Ordered vacancy compounds: the case of the MangÃ@li phases of TiO2., 2023,, 533-565.		0
6829	Application and Analysis of Modified Metal-Oxide Memristor Models in Electronic Devices. Technologies, 2023, 11, 20.	3.0	3

#	Article	IF	CITATIONS
6830	The plasticity of synaptic memristor based on 2D-MoS2 thin film prepared in large-scale by a PLD-assisted CVD method. Materials Today Communications, 2023, 35, 105511.	0.9	0
6831	Synchronization of memristive neural networks with leakage and time-varying delays under non-chattering quantized control., 2022,,.		0
6832	Image Classification by Neural Network on Crossbars with Memristor Defects. , 2022, , .		0
6833	Artificial Synapses Based On Two-Dimensional Materials. , 2023, , 658-675.		0
6834	Fixed-time synchronization of nonlinear coupled memristive neural networks with time delays via sliding-mode control. Electronic Research Archive, 2023, 31, 3291-3308.	0.4	0
6835	Oxide Memristors for Brain-inspired Computing. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2023, 38, 1149.	0.6	1
6836	Memristor-based High Speed and Area Efficient Comparators in IMPLY Logic. , 2023, , .		0
6837	RC Bridge Oscillation Memristor Chaotic Circuit for Electrical and Electronic Technology Extended Simulation Experiment. Micromachines, 2023, 14, 410.	1.4	5
6838	Physical evidence of meminductance in a passive, two-terminal circuit element. Scientific Reports, 2023, 13, .	1.6	1
6839	A DISCRETE MEMRISTOR COUPLED TWO-DIMENSIONAL GENERALIZED SQUARE HYPERCHAOTIC MAPS. Fractals, 2023, 31, .	1.8	15
6840	Perforated Turbostratic Graphene As Active Layer in a Nonvolatile Resistive Switching Memory Device. ACS Applied Electronic Materials, 2023, 5, 2131-2144.	2.0	1
6841	Recent progress in transparent memristors. Journal Physics D: Applied Physics, 2023, 56, 313001.	1.3	0
6842	Convolutional networks with short-term memory effects. Microprocessors and Microsystems, 2023, 98, 104779.	1.8	1
6843	Process invariant Schmitt Trigger non-volatile 13T1M SRAM cell. Microelectronics Journal, 2023, 135, 105773.	1.1	1
6844	Grid-scroll memristive chaotic system with application to image encryption. Chaos, Solitons and Fractals, 2023, 170, 113341.	2.5	30
6845	Fixed/prescribed-time synchronization of BAM memristive neural networks with time-varying delays via convex analysis. Neural Networks, 2023, 163, 53-63.	3.3	12
6846	Fault detection filtering of nonhomogeneous Markov switching memristive neural networks with output quantization. Information Sciences, 2023, 632, 715-729.	4.0	7
6847	Evolving Tangent Hyperbolic memristor based 6D chaotic model with fractional order derivative: Analysis and applications. Partial Differential Equations in Applied Mathematics, 2023, 7, 100505.	1.3	1

#	Article	IF	CITATIONS
6848	Fixed-time synchronization of delayed memristive neural networks with impulsive effects via novel fixed-time stability theorem. Neural Networks, 2023, 163, 75-85.	3.3	7
6849	Multi-modulated optoelectronic memristor based on Ga2O3/MoS2 heterojunction for bionic synapses and artificial visual system. Nano Energy, 2023, 111, 108398.	8.2	24
6850	Bounded real lemmas and exponential <mml:math altimg="si4.svg" display="inline" id="d1e474" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mi>â^ž<td>l:n2i≱<td>าl:മnrow></td></td></mml:mi></mml:mrow></mml:msub></mml:math>	l:n 2i ≱ <td>าl:മnrow></td>	า l:മ nrow>
6851	Exponential synchronization of memristive Hindmarsh–Rose neural networks. Nonlinear Analysis: Real World Applications, 2023, 73, 103909.	0.9	2
6852	New Criteria of Event-triggered Exponential State Estimation for Delayed semi-Markovian Memristor-based Neural Networks. Expert Systems With Applications, 2023, 224, 119938.	4.4	3
6853	A Memristive Cell with Long Retention Time in 65 nm CMOS Technology. Advanced Electronic Materials, 0, , .	2.6	0
6854	An efficient read approach for memristive crossbar array. , 2023, , 100047.		1
6855	Impulsive Destabilization Effect on Novel Existence of Solution and Global \hat{l} 4-Stability for MNNs in Quaternion Field. Mathematics, 2023, 11, 1869.	1.1	0
6856	A storage-efficient SNN–CNN hybrid network with RRAM-implemented weights for traffic signs recognition. Engineering Applications of Artificial Intelligence, 2023, 123, 106232.	4.3	4
6857	FourierPIM: High-throughput in-memory Fast Fourier Transform and polynomial multiplication. , 2023, 4, 100034.		1
6858	Flux-charge analysis and experimental verification of a parallel Memristor–Capacitor circuit. , 2023, 4, 100043.		0
6859	Research progress and applications of memristor emulator circuits. Microelectronics Journal, 2023, 133, 105702.	1.1	8
6860	In-Depth Physical Mechanism Analysis and Wearable Applications of HfO <i></i> -Based Flexible Memristors. ACS Applied Materials & Interfaces, 2023, 15, 5420-5431.	4.0	22
6861	A Grounded Flux Controlled Incremental/Decremental Memristor Emulator. , 2022, , .		1
6862	Electronically Tunable Memristor Emulator Implemented Using a Single Active Element and Its Application in Adaptive Learning. Sensors, 2023, 23, 1620.	2.1	4
6863	Neuromorphic Circuits and Systems: From Neuron Models to Integrate-and-Fire Arrays. , 2023, , 1455-1480.		0
6864	Brain-inspired STA for parameter estimation of fractional-order memristor-based chaotic systems. Applied Intelligence, 0, , .	3.3	2
6865	Review on metal halide perovskite-based optoelectronic synapses. Photonics Research, 2023, 11, 787.	3.4	7

#	Article	IF	Citations
6866	Nonlinear dynamics and hyperchaos in a modified memristor-based Chua's circuit and its generalized discrete system. Journal of Difference Equations and Applications, 0, , 1-22.	0.7	2
6867	Memristive and Tunneling Effects in 3D Interconnected Silver Nanowires. ACS Omega, 2023, 8, 6663-6668.	1.6	1
6868	Graphene/MoS2â^'xOx/graphene photomemristor with tunable non-volatile responsivities for neuromorphic vision processing. Light: Science and Applications, 2023, 12, .	7.7	19
6869	A Progressive Surrogate Gradient Learning for Memristive SNN. Chinese Physics B, O, , .	0.7	0
6870	A superstatistics approach to the modelling of memristor current–voltage responses. Physica A: Statistical Mechanics and Its Applications, 2023, 614, 128555.	1.2	1
6871	Graphene Oxide-Based Memristive Logic-in-Memory Circuit Enabling Normally-Off Computing. Nanomaterials, 2023, 13, 710.	1.9	0
6872	Modeling and emulation of artificial nociceptor based on TiO2 threshold switching memristor. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2023, 290, 116360.	1.7	0
6873	Constructing Meminductive Chaotic Oscillator. IEEE Transactions on Circuits and Systems II: Express Briefs, 2023, 70, 2675-2679.	2.2	2
6874	A Single Chip SPAD Based Vision Sensing System With Integrated Memristive Spiking Neuromorphic Processing. IEEE Access, 2023, 11, 19441-19457.	2.6	2
6875	Investigation of the Temperature Dependence of Volt-Ampere Characteristics of a Thin-Film Si3N4 Memristor. Crystals, 2023, 13, 323.	1.0	1
6876	Large-scale nano-biosensing technologies. Frontiers in Nanotechnology, 0, 5, .	2.4	3
6877	Routes toward chaos in a memristor-based Shinriki circuit. Chaos, 2023, 33, .	1.0	14
6878	Performance improvement of a Ag-ion controlled molecular-gap atomic switch by reducing a switching area for applying to a deep learning system. Japanese Journal of Applied Physics, 2023, 62, SG1017.	0.8	1
6879	A 300ÂMHz MOS-only memristor emulator. AEU - International Journal of Electronics and Communications, 2023, 162, 154593.	1.7	3
6880	Application of Quaternion Neural Network to Time Reversal Based Nonlinear Elastic Wave Spectroscopy., 2023, 8, 183-199.		0
6881	Beyond Memristors: Neuromorphic Computing Using Meminductors. Micromachines, 2023, 14, 486.	1.4	1
6882	Femtosecond Laser-Induced Nano-Joining of Volatile Tellurium Nanotube Memristor. Nanomaterials, 2023, 13, 789.	1.9	2
6883	Biological function simulation in neuromorphic devices: from synapse and neuron to behavior. Science and Technology of Advanced Materials, 2023, 24, .	2.8	13

#	Article	IF	Citations
6884	Memristive Biosensors for Cancer Biomarkers Detection: A Review. IEEE Access, 2023, 11, 19347-19361.	2.6	5
6885	A Study of Fractional-Order Memristive Ant Colony Algorithm: Take Fracmemristor into Swarm Intelligent Algorithm. Fractal and Fractional, 2023, 7, 211.	1.6	3
6886	Biomemristor with Phototunable Resistive Switching Characteristics of a Neem (Azadirachta) Tj ETQq0 0 0 rgB1	Overlock	10 ₂ Tf 50 662 ¹
6887	Finite-time bipartite lag synchronization of coupled memristive neural networks with uncertain disturbances via hybrid control. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 0, , 095965182311533.	0.7	0
6888	INFORMATIONSTECHNOLOGIE UND NACHHALTIGKEIT. SIBE-Edition, 2023, , 141-219.	0.0	0
6889	Mott memristors based on field-induced carrier avalanche multiplication. Physical Review B, 2023, 107,	1.1	4
6890	Neuromorphe Computer und KÃ $\frac{1}{4}$ nstliche Intelligenz. Springer Reference Geisteswissenschaften, 2022, , 1-23.	0.0	0
6891	Research progress in architecture and application of RRAM with computing-in-memory. Nanoscale Advances, 2023, 5, 1559-1573.	2.2	3
6892	Antisynchronization and Generalized Pinning Control of Multiweighted Coupled Complex-Valued Delayed Memristive Neural Networks. Discrete Dynamics in Nature and Society, 2023, 2023, 1-20.	0.5	0
6893	Effects of Quantum Recoil Forces in Resistive Switching in Memristors. JETP Letters, 2023, 117, 384-391.	0.4	1
6894	A method to detect quantum coherent transport in memristive devices. European Physical Journal B, 2023, 96, .	0.6	0
6895	RC-MHM: reservoir computing with a 2D memristive hyperchaotic map. European Physical Journal: Special Topics, 2023, 232, 663-671.	1.2	4
6896	Mittag-Leffler stability of fractional-order quaternion-valued memristive neural networks with generalized piecewise constant argument. Neural Networks, 2023, 162, 175-185.	3.3	5
6897	Features of the Formation of Conductive Channels in Memristors Based on Solid Electrolytes. Nanobiotechnology Reports, 2022, 17, S68-S71.	0.2	O
6898	A Floating Decremental/ Incremental Meminductor Emulator Using Voltage Differencing Inverted Buffered Amplifier and Current Follower. Journal of Circuits, Systems and Computers, 2023, 32, .	1.0	3
6899	Coupled Nonreactive Memristor Generators for Binary-Oscillator Networks. Nanobiotechnology Reports, 2022, 17, 883-889.	0.2	O
6900	Emerging photoelectric devices for neuromorphic vision applications: principles, developments, and outlooks. Science and Technology of Advanced Materials, 2023, 24, .	2.8	9
6901	Mathematical and Experimental Model of Neuronal Oscillator Based on Memristor-Based Nonlinearity. Mathematics, 2023, 11, 1268.	1.1	4

#	ARTICLE	IF	CITATIONS
6902	Modified projective synchronization of fractional-order hyperchaotic memristor-based Chua's circuit. , 2022, 2, 69-85.		1
6903	Periodically Intermittent Control of Memristor-Based Hyper-Chaotic Bao-like System. Mathematics, 2023, 11, 1264.	1.1	18
6904	TWO DISCRETE MEMRISTIVE CHAOTIC MAPS AND ITS DSP IMPLEMENTATION. Fractals, 2023, 31, .	1.8	16
6905	Ga-Sn-O Thin-Film Memristor and Analog Plasticity Characteristic. IEEE Journal of the Electron Devices Society, 2023, 11, 174-178.	1.2	2
6906	Nanoscale on-chip inductors using a linearized meminductive circuit. IEEE Potentials, 2023, 42, 16-19.	0.2	1
6907	Memristor-based neural networks: a bridge from device to artificial intelligence. Nanoscale Horizons, 2023, 8, 716-745.	4.1	25
6908	An Overview of Complex Instability Behaviors Induced by Nonlinearity of Power Electronic Systems with Memristive Load. Energies, 2023, 16, 2528.	1.6	0
6909	Generalization and Differentiation Circuit Design Based on Memristor Under Different Emotional Conditions. IEEE Transactions on Circuits and Systems I: Regular Papers, 2023, 70, 2331-2341.	3 . 5	1
6910	Emerging Iontronic Neural Devices for Neuromorphic Sensory Computing. Advanced Materials, 2023, 35, .	11.1	18
6911	A review of dynamics analysis of neural networks and applications in creation psychology. Electronic Research Archive, 2023, 31, 2595-2625.	0.4	0
6912	A New Chaotic System Based on New Memristor. , 2022, , .		0
6913	A Review of Chaotic Systems Based on Memristive Hopfield Neural Networks. Mathematics, 2023, 11, 1369.	1.1	42
6914	Emerging memristive neurons for neuromorphic computing and sensing. Science and Technology of Advanced Materials, 2023, 24, .	2.8	9
6915	An offset-boostable 3-D memristive system and its attractor self-repruducing. , 2022, , .		0
6916	Study on the characteristics and application of voltage-controlled inverse memristor., 2022,,.		0
6917	Finite-Time Synchronization of Memristive Neural Networks Modeling in Terms of Voltage-Flux-Time. IEEE Transactions on Circuits and Systems II: Express Briefs, 2023, , 1-1.	2.2	0
6918	Simulation of neuronal membrane behavior based on graphene oxide memristor. Physica Status Solidi (A) Applications and Materials Science, 0, , .	0.8	0
6919	Resistive Switching in CsPbBr ₃ (0D)/MoS ₂ (2D) Heterojunction System: Trap-Controlled Space Charge Limited Transport Mechanism. ACS Applied Electronic Materials, 2023, 5, 1536-1545.	2.0	3

#	Article	IF	CITATIONS
6920	Synapse-Mimetic Hardware-Implemented Resistive Random-Access Memory for Artificial Neural Network. Sensors, 2023, 23, 3118.	2.1	4
6921	H _{â^ž} state estimation for memristor-based neural networks with unbounded time-varying delays., 2022,,.		0
6922	Variability in Resistive Memories. Advanced Intelligent Systems, 2023, 5, .	3.3	25
6923	Realization of memristor using multi-stationary point PSM characteristics. International Journal of Electronics, 0, , 1-24.	0.9	0
6924	A Memristive-Based Design of a Core Digital Circuit for Elliptic Curve Cryptography. Journal of Circuits, Systems and Computers, 2023, 32, .	1.0	2
6925	Reliable and secure memristor-based chaotic communication against eavesdroppers and untrusted foundries. Discover Internet of Things, 2023, 3, .	3.3	3
6926	Stability Analysis of the Synchronous Solution in Arrays of Memristive Chua's Circuits. IEEE Transactions on Circuits and Systems II: Express Briefs, 2023, 70, 1694-1698.	2,2	0
6927	<scp>Polymerâ€based</scp> neuromorphic devices: resistive switches and organic electrochemical transistors. Polymer International, 2023, 72, 609-618.	1.6	3
6928	Investigations of endurance and retention in tantalum oxide based memristor. Materials Today: Proceedings, 2023, , .	0.9	1
6929	Electronically Tunable Circuit Realization of Multimemelement Function Simulator and Its Application to Chaos Generation. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2023, 33, .	0.7	1
6930	Locally Active Memristor with Variable Parameters and Its Oscillation Circuit. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2023, 33, .	0.7	12
6931	Memristor-Based Architectures for PFSCL Circuit Realizations. Circuits, Systems, and Signal Processing, 0, , .	1.2	0
6932	Spike sorting algorithms and their efficient hardware implementation: a comprehensive survey. Journal of Neural Engineering, 2023, 20, 021001.	1.8	1
6933	Memristor Cellular Nonlinear Networks. Mathematics, 2023, 11, 1601.	1.1	1
6934	Research Process of Carbon Dots in Memristors. Advanced Electronic Materials, 2023, 9, .	2.6	6
6935	The Effect of Nitrogen Annealing on the Resistive Switching Characteristics of the W/TiO2/FTO Memory Device. Sensors, 2023, 23, 3480.	2.1	4
6936	Fractional-Order sliding mode control of a 4D memristive chaotic system. JVC/Journal of Vibration and Control, 0, , 107754632311661.	1.5	8
6937	Evaluation of Cellulose–MXene Composite Hydrogel Based Bio-Resistive Random Access Memory Material as Mimics for Biological Synapses. ACS Applied Bio Materials, 2023, 6, 1763-1773.	2.3	4

#	ARTICLE	IF	CITATIONS
6938	Dynamic analysis of the fifth order Chua circuit memristor system. , 2023, , .		0
6939	Top-Gate Transparent Organic Synaptic Transistors Based on Co-Mingled Heterojunctions. Electronics (Switzerland), 2023, 12, 1596.	1.8	O
6940	Thousands of conductance levels in memristors integrated on CMOS. Nature, 2023, 615, 823-829.	13.7	66
6941	Role of the electrolyte layer in CMOS-compatible and oxide-based vertical three-terminal ECRAM. Journal of Materials Chemistry C, 2023, 11, 5167-5173.	2.7	4
6942	CMOS-Based Memristor Emulator Circuits for Low-Power Edge-Computing Applications. Electronics (Switzerland), 2023, 12, 1654.	1.8	8
6943	STREAM: Toward READ-Based In-Memory Computing for Streaming-Based Processing for Data-Intensive Applications. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2023, 42, 3854-3867.	1.9	2
6944	Enhancing memristor fundamentals through instrumental characterization and understanding reliability issues. Materials Advances, 2023, 4, 1850-1875.	2.6	3
6945	Tuning the conductance topology in solids. Journal of Applied Physics, 2023, 133, .	1.1	3
6946	Tetraphenylethene Carbothioamideâ€Based Organic Stimuliâ€Responsive Mechanochromic Memristive Devices with Nonâ€Volatile Memory and Synaptic Learning Functionalities. ChemistrySelect, 2023, 8, .	0.7	7
6947	Power and Area Efficient Hybrid Memristor-CMOS based 2's Complement FSM for High-Performance Computing System. , 2023, , .		1
6948	Programmable In-Memory Computing Circuit for Solving Combinatorial Matrix Operation in One Step. IEEE Transactions on Circuits and Systems I: Regular Papers, 2023, 70, 2916-2928.	3.5	1
6949	Pseudo random number generator based on memristive Helmholtz snap oscillator with two lines of equilibria embedded in microcontroller. Physica Scripta, 2023, 98, 055213.	1.2	2
6950	Robust and potential applications of memristors. , 2023, , .		0
6951	Recent progress in energy, environment, and electronic applications of MXene nanomaterials. Nanoscale, 2023, 15, 9891-9926.	2.8	16
6952	Nanoscale Memristor., 2016,, 562-579.		0
6953	Energy efficient operation conditions of MoS ₂ â€based memristors. Physica Status Solidi (A) Applications and Materials Science, 0, , .	0.8	0
6954	Nonlinear Dynamics in the Coupled Fractional-Order Memristor Chaotic System and Its Application in Image Encryption. Mathematical Problems in Engineering, 2023, 2023, 1-23.	0.6	4
6955	Physical Unclonable Functions (PUF) for IoT Devices. ACM Computing Surveys, 2023, 55, 1-31.	16.1	5

#	Article	IF	CITATIONS
6956	Translation of Array Expressions for in-Memory Computation on Memristive Crossbar. , 2023, , .		0
6957	Efficient grouping approach for fault tolerant weight mapping in memristive crossbar array. , 2023, 4, 100045.		0
6959	LiNbO3 dynamic memristors for reservoir computing. Frontiers in Neuroscience, 0, 17, .	1.4	1
6960	Neuromorphic visual artificial synapse in-memory computing systems based on GeOx-coated MXene nanosheets. Nano Energy, 2023, 112, 108441.	8.2	6
6961	A π-Type Memristor Synapse and Neuron With Structural Plasticity. Frontiers in Physics, 0, 9, .	1.0	5
6962	Coexistence behavior of a double-MR-based cellular neural network system and its circuit implementation. Nonlinear Dynamics, 2023, 111, 11593-11611.	2.7	2
6963	Investigation of the effect of multiple oxidation and ion sputtering on the formation of inhomogeneous oxide layers on the surface of an ultrathin metal film., 2023,,.		0
6964	Designâ€Dependent Switching Mechanisms of Schottkyâ€Barrierâ€Modulated Memristors based on 2D Semiconductor. Advanced Electronic Materials, 2023, 9, .	2.6	3
6965	Integrated Memristor Network for Physiological Signal Processing. Advanced Electronic Materials, 2023, 9, .	2.6	6
6966	Elektronik Olarak Ayarlanabilen FDCCII Tabanlı Yeni Memkapasitör EmÃ⅓latör Devresi. MÃ⅓hendislik Bilimleri Ve Araştırmaları Dergisi, 2023, 5, 127-134.	0.3	2
6967	Exponential synchronization of quaternionâ€valued memristorâ€based neural networks with timeâ€varying delays. International Journal of Adaptive Control and Signal Processing, 2023, 37, 1762-1781.	2.3	4
6968	Complex Dynamic Analysis, Circuit Design and Simplified Predefined Time Synchronization for a Jerk Absolute Memristor Chaotic System. Complexity, 2023, 2023, 1-22.	0.9	0
6969	Memristor-Based Circuit Design of PAD Emotional Space and Its Application in Mood Congruity. IEEE Internet of Things Journal, 2023, 10, 16332-16342.	5 . 5	28
6970	Carbon Nanodots Memristor: An Emerging Candidate toward Artificial Biosynapse and Human Sensory Perception System. Advanced Science, 2023, 10, .	5.6	13
6971	A first principles study on physical properties of Nb-doped LiCoO2 for memristor (CM-3:ILO2). Ceramics International, 2023, , .	2.3	0
6972	Dynamical memristive neural networks and associative self-learning architectures using biomimetic devices. Frontiers in Neuroscience, 0, 17, .	1.4	1
6973	Long-term potentiation mechanism of biological postsynaptic activity in neuro-inspired halide perovskite memristors. Neuromorphic Computing and Engineering, 2023, 3, 024005.	2.8	10
6974	Promising Materials and Synthesis Methods for Resistive Switching Memory Devices: A Status Review. ACS Applied Electronic Materials, 2023, 5, 2454-2481.	2.0	10

#	Article	IF	CITATIONS
6977	A New Type of Voter Based on Photoelectric Memristor. Lecture Notes in Electrical Engineering, 2023, , 228-233.	0.3	0
7010	Resistive RAM-based PUF: Challenges and Opportunities. , 2023, , .		1
7013	Design Issues and Challenges of Memristor Structured Gas Receptive System. , 2023, , .		0
7017	A 3D discrete memristive chaotic map and its application in image encryption. , 2023, , .		0
7019	Applications of MOSFET-Based High-frequency Signal Processing Memristor., 2023,,.		0
7021	RFAM: RESET-Failure-Aware-Model for HfO2-based Memristor to Enhance the Reliability of Neuromorphic Design. , 2023, , .		2
7022	Reliability Analysis of Memristive Reservoir Computing Architecture. , 2023, , .		1
7024	Circuit Optimization Techniques for Efficient Ex-Situ Training of Robust Memristor Based Liquid State Machine. , 2022, , .		1
7025	Reliable Brain-inspired Al Accelerators using Classical and Emerging Memories. , 2023, , .		0
7030	Resistive switching behavior in nonmagnetic oxides. , 2023, , 625-668.		0
7035	Hintergrund., 2023,, 7-20.		0
7037	Nonvolatile D- latch and flip-flop Designs based on new Memristor Technology. , 2023, , .		0
7042	The Synchronization Analysis of Stochastic Memristor-based Neural Networks with Inertial Terms. , 2023, , .		0
7045	Convergence analysis of the nontrivial stationary solution of the memristor-based neural networks with reaction-diffusion terms. , 2023, , .		0
7047	Memristors: types, characteristics and prospects of use as the main element of the future artificial intelligence. , 2022, , .		0
7058	Review on Different Emulator memristor modelling and application. , 2023, , .		0
7060	A photo sensor with one-direction memristive behavior based on silicon-oxide., 2022,,.		0
7068	Stabilization of Delayed Memristive Neural Networks Driven by Mixed Deception Attacks. , 2023, , .		0

#	Article	IF	CITATIONS
7069	Evaluating a New RRAM Manufacturing Test Strategy. , 2023, , .		2
7071	9T1R nvSRAM Cell with Improved Read Delay and Margin. Lecture Notes in Electrical Engineering, 2023, , 245-258.	0.3	0
7076	An Adaptive Window Function based Memristor Model. , 2023, , .		0
7081	Analysis and Design of Memristor Emulator and Its Application in FM Demodulator. Algorithms for Intelligent Systems, 2021, , 241-252.	0.5	0
7088	Al/Lu/Lu2O3/ Al Memristor for Synaptic and Memory Applications. , 2022, , .		0
7094	Attacks on Continuous Chaos Communication and Remedies for Resource Limited Devices. , 2023, , .		1
7095	Analysis of Memristor Based Analog Circuits for Improved Efficiency. , 2023, , .		0
7096	Development of an Accurate Model for Memristor based Temperature Sensor., 2023,,.		0
7103	Efficient Processing Time with Carry-lookahead Adder Memristor Rationed Logic. , 2023, , .		0
7116	Memristor based Bit Multipliers. , 2023, , .		0
7117	Grounded Meminductor Emulator using Operational Amplifiers and Memristor., 2023,,.		1
7120	Advances in the Application of Perovskite Materials. Nano-Micro Letters, 2023, 15, .	14.4	40
7121	Study on neuron firing behavior of improved Hybrid neuron model based on memristor., 2023,,.		0
7132	Reduction of sneak path effect in memristor crossbar array. , 2023, , .		0
7137	Modeling of memristor-based RF switches. , 2023, , .		1
7139	Exploration of Bistable Oscillatory Dynamics in a Memristor from Forschungszentrum J $ ilde{A}^1\!\!/\!\!4$ lich. , 2023, , .		0
7140	An Improved Memristor Model and Applications. , 2023, , .		1
7144	From Spintronic Memristors to Quantum Computing. , 2023, 5, 2197-2215.		4

#	Article	IF	Citations
7148	Backpropagating Errors Through Memristive Spiking Neural Networks., 2023,,.		0
7149	Memristor-based Offset Cancellation Technique in Analog Crossbars. , 2023, , .		0
7150	Python based Memristor Model Library for Variability Analysis. , 2023, , .		0
7158	A Kind of Reconfigurable Memristor Circuit Based on Asynchronous Sequential Logic. Lecture Notes in Electrical Engineering, 2023, , 307-316.	0.3	0
7161	The Emergence of Memristive Devices in Microwave Circuits: A Review of Progress and Potential Application., 2023,,.		0
7163	A Review onÂMemristor-Based Reactance-Less Relaxation Oscillator. Lecture Notes in Electrical Engineering, 2023, , 149-157.	0.3	0
7165	Memristor Testing Needs Compared to Existing CMOS Testing Methods. , 2023, , .		0
7171	On Detection of Hardware Trojan in Memristive Nanocrossbar-Based Circuits. Lecture Notes in Networks and Systems, 2023, , 319-329.	0.5	0
7173	Survey of Neuromorphic Computing: A Data Science Perspective. , 2023, , .		0
7176	Towards a CMOS-Process-Portable ReRAM PDK. , 2023, , .		0
7177	Emerging memristive artificial neuron and synapse devices for the neuromorphic electronics era. Nanoscale Horizons, 2023, 8, 1456-1484.	4.1	4
7178	A Novel Dynamic Memristor Window Function for High Frequency Applications. , 2023, , .		0
7184	Deep Learning ASIC Design., 2023,, 201-224.		0
7188	Finite-time projective synchronization of inertial complex-valued memristive neural networks. , 2023, , .		0
7189	Experimental Analysis of HfO _{2/X} ReRAM devices by the Capacitance Measurements., 2023,,.		0
7202	State-Space Modeling and Tuning of Memristors for Neuromorphic Computing Applications., 2023,,.		0
7207	Analog Memristor Counter Arrays. , 2023, , .		0
7219	Porous crystalline materials for memories and neuromorphic computing systems. Chemical Society Reviews, 2023, 52, 7071-7136.	18.7	14

#	Article	IF	CITATIONS
7220	Perovskite material-based memristors for applications in information processing and artificial intelligence. Journal of Materials Chemistry C, 2023, 11, 13167-13188.	2.7	4
7237	Digital image processing realized by memristor-based technologies. , 2023, 18, .		O
7241	Organic Resistive Memories for Neuromorphic Electronics. , 2023, , 60-120.		0
7243	In-memory computing based on phase change memory for high energy efficiency. Science China Information Sciences, 2023, 66, .	2.7	0
7249	Advances in pixel driving technology for micro-LED displays. Nanoscale, 2023, 15, 17232-17248.	2.8	2
7253	Neuromorphic Computing. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2023, , 30-62.	0.5	0
7255	Memristor-based LSTM neuromorphic circuits for offshore wind turbine blade fault detection. , 2023, , .		0
7256	Clustering Feature Extraction of Chaotic Circuits with Learning on Coupling Weights., 2023,,.		O
7258	Modelling Memristive Devices via Ideal Memristor and Nonlinear Resistors. , 2023, , .		0
7263	Tolerating Device-to-Device Variation for Memristive Crossbar-Based Neuromorphic Computing Systems: A New Bayesian Perspective. , 2023, , .		O
7275	Case Study of a Differential Single-Pole Double-Throw RF Switch Using Memristors., 2023,,.		1
7287	An Almost Fully RRAM-Based LUT Design forÂReconfigurable Circuits. Lecture Notes in Computer Science, 2023, , 322-337.	1.0	0
7290	Mem-Fractive Properties of Fungi. Emergence, Complexity and Computation, 2023, , 193-225.	0.2	0
7292	Dynamic Analysis and Control of Fractional Order Memristor Hopfield Neural Network. , 2023, , .		0
7294	Modeling and Simulation of Silver-Based Filamentary Memristive Devices. Springer Series on Bio- and Neurosystems, 2024, , 159-176.	0.2	0
7295	Matter and Mind Matter. Springer Series on Bio- and Neurosystems, 2024, , 1-42.	0.2	O
7296	Emulation of Learning Behavior in the Hippocampus: From Memristive Learning to Behavioral Tests. Springer Series on Bio- and Neurosystems, 2024, , 407-433.	0.2	0
7297	Redox-Based Bi-Layer Metal Oxide Memristive Devices. Springer Series on Bio- and Neurosystems, 2024, , 87-114.	0.2	O

#	Article	IF	CITATIONS
7298	MemFlashâ€"Floating Gate Transistors as Memristors. Springer Series on Bio- and Neurosystems, 2024, , 115-128.	0.2	0
7302	Finite-time Synchronization of Fractional-order Memristive Neural Networks with Time Delay and Interactions., 2023,,.		0
7303	Non-Volatile Random Access Memory based on Memristors: Design and Analysis. , 2023, , .		0
7304	Thin-Film Memristors and Memcapacitors for 3D Integration of Neuromorphic Systems., 2023,,.		O
7308	Memristors and Resistive Switching in Metal Oxides. Progress in Optical Science and Photonics, 2023, , 431-455.	0.3	1
7309	A Segmented DAC Using a-IGZO TFTs for Memristor Based Neural Network Accelerators. , 2023, , .		0
7318	Design of Memristor Based Controller for Speed Control of Induction Motor. , 2023, , .		0
7320	New Non-Volatile Memory Technologies and Neuromorphic Computing. , 2023, , .		0
7331	Stochastic Emerging Resistive Memories for Unconventional Computing., 2023,, 240-269.		0
7336	Memristive Devices for Neuromorphic and Deep Learning Applications. , 2023, , 680-704.		0
7338	Amorphous Oxide Semiconductor Memristors: Brain-inspired Computation., 2023,, 431-457.		0
7340	Low Frequency 1/ <i>f</i> i> Conductance Noise in Memristors. , 2023, , 121-148.		0
7343	The Variable Resistor Under a High-Frequency Signal. Studies in Computational Intelligence, 2023, , 257-266.	0.7	0
7351	An Efficient Low Power Full Adder Architecture Using Memristor. , 2023, , .		0
7352	Micro Four-Transistor CMOS Memristor and Its Application in Cut-off Frequency-Tunable Active Filter Design. , 2023, , .		0
7355	Computing of Neuromorphic Materials: An Emerging Approach for Bioengineering Solutions. Materials Advances, 0, , .	2.6	0
7357	Memristor crossbar with hafnium oxide nanowires in artificial vision system. AIP Conference Proceedings, 2023, , .	0.3	0
7365	Memristive structures based on TiO $<$ sub $>$ 2 $<$ /sub $>$ nanodots: simulation, formation and resistive switching. , 2023, , .		0

#	Article	IF	CITATIONS
7371	Spinel ferrites for resistive random access memory applications. Emergent Materials, 2024, 7, 103-131.	3.2	0
7372	Memristors: A Missing Element is a Boon Toward the Development of Neuromorphic Computing and Al. Algorithms for Intelligent Systems, 2023, , 215-234.	0.5	O
7373	Non-traditional New Structure Devices. , 2024, , 1803-1827.		0
7381	é¢å'晰能视觉感知的神ç»å½¢æ€ä¼æ"Ÿå™°çš"原ç†å'Œå°"甓. Science China Materials, 2023, 66,	4 55 0 -456	550
7383	Memristor based electronic devices towards biomedical applications. Journal of Materials Chemistry $C,0,,\ldots$	2.7	0
7386	Recent advances in memristors based on two-dimensional ferroelectric materials. Frontiers of Physics, 2024, 19, .	2.4	2
7394	Anisotropic Diffusion-based Analog CNN Architecture for Continuous EEG Monitoring. , 2023, , .		1
7397	An IMPLY-based Semi-Serial Approximate In-Memristor Adder. , 2023, , .		O
7403	The Future is Analog. , 2023, , .		1
7406	A Simplified Analog Neuron Model with Modified Memristor-based Positive Synaptic Weights. , 2023, , .		O
7410	Al-driven Memristor-based Microchip Design: A Comprehensive Study. , 0, , .		0
7412	Application of two general Memristor models in chaotic systems. , 0, , .		O
7416	Epilog: Grenzen der KI – theoretisch, praktisch, ethisch. Springer Reference Geisteswissenschaften, 2023, , 1-32.	0.0	0
7423	X-MAPE: Extending 6G-Connected Self-Adaptive Systems with Reflexive Actions. , 2023, , .		O
7426	CMOS Design of a Memristor Emulator: Model, Simulation and Results. , 2023, , .		0
7427	Methodology for the implementation of Memristor models in FPGA. , 2023, , .		0
7429	Memristor-Based Neural Network Implementation with Adjustable Synaptic Weights in LTSPICE. , 2023, , .		1
7437	Oxidation of van-der-Waals Semiconductors for Neuromorphic Technology. , 2023, , .		O

#	Article	IF	CITATIONS
7439	Stabilization of Memristor-Based Chua's Oscillator via T-S Fuzzy Modeling and Three-Stage-Impulse Control. , 2023, , .		0
7440	Memristive devices., 2023,,.		0
7445	Low Complexity Memristor-based RRAM Design for IoT Applications. , 2023, , .		0
7447	Side-channel Attacks on Memristive Circuits Under External Disturbances. , 2023, , .		0
7449	Cycle-to-Cycle Variation Suppression in ReRAM-Based Al Accelerators. , 2023, , .		0
7451	Neuromorphic Computing with Resistive Memory and Bayesian Machines. , 0, , .		0
7452	LIM-GEN: A Data-Guided Framework for Automated Generation of Heterogeneous Logic-in-Memory Architecture. , 2023, , .		0
7455	Characterization of HfOx 1T1R Memristors for Analog Programming. , 2023, , .		0
7460	Principles of Conceptual Design of Memristive Biosensors. , 2023, , .		0
7467	DCR: Decomposition-Aware Column Re-Mapping for Stuck-At-Fault Tolerance in ReRAM Arrays. , 2023, , .		0
7468	Energy Flow Analysis of Nonlinear Dynamical Systems. Studies in Systems, Decision and Control, 2023, , 191-285.	0.8	0
7471	Input-Aware Flow-Based In-Memory Computing. , 2023, , .		0
7472	Statistical Study on Data Dependency of Memristor Crossbar Architectures for Neuromorphic Computing., 2023,,.		0
7474	Solving Sparse Linear Systems via Flexible GMRES with In-Memory Analog Preconditioning. , 2023, , .		0
7476	Enhanced Safety Logic Solver Utilizing 2003 Architecture with Memristor Integration., 0,,.		0
7478	Evaluation of Leakage Currents in Memristor Crossbar Arrays. , 2023, , .		0
7513	From fundamentals to frontiers: a review of memristor mechanisms, modeling and emerging applications. Journal of Materials Chemistry C, 2024, 12, 1583-1608.	2.7	0
7517	Quantum Computing on Memristor Crossbars. , 2024, , 623-647.		0

#	Article	IF	Citations
7518	Performance comparison of memristor crossbar-based analog and FPGA-based digital weight-memory-less neural networks. , 2023, , .		0
7531	Nanoscale memristive devices: Threats and solutions. , 2024, , 137-163.		0
7532	Novel memristive physical unclonable function. , 2024, , 59-89.		0
7534	Memristor and spintronics as key technologies for upcoming computing resources. , 2024, , 1-19.		0
7535	Perspective on photonic neuromorphic computing., 2024, , 353-375.		0
7536	Memristor crossbar-based learning method for ex situ training in neural networks. , 2024, , 91-109.		0
7543	Robust Ex-situ Training of Memristor Crossbar-based Neural Network with Limited Precision Weights. , 2023, , .		0
7546	General decay anti-synchronization of coupled delayed memristive neural networks., 2023,,.		0
7548	Nanoscale memristor devices: materials, fabrication, and artificial intelligence. Journal of Materials Chemistry C, 2024, 12, 3770-3810.	2.7	1
7550	A comparative study of an Exponential Window function for Linear Drift Memristor Model., 2023,,.		0
7552	Sustainable Devices for Electronic Applications. , 2024, , .		0
7553	Design and Implementation of Full Adder Circuit Based on VTM-Logic Gates. , 2023, , .		0
7554	Exponential Synchronization for Semi-Markovian Delayed Memristive Neural Networks with Intermittent Sampled-Data Control., 2023,,.		0
7561	Heterosynaptic plasticity in memristive and memcapacitive lipid bilayers: A snapshot review. MRS Advances, 0, , .	0.5	0
7563	FPGA-implemented Memristor-based Transient Chaotic Neural Network for AES Edge Encryption. , 2023, , .		0
7567	Read and write circuit for memristive neural networks. , 2023, , .		0
7581	The Roadmap of 2D Materials and Devices Toward Chips. Nano-Micro Letters, 2024, 16, .	14.4	0
7601	Synchronization of Memristive Hindmarsh-Rose Neurons Connected by Memristive Synapses. , 2024, , 155-167.		0

Article IF Citations

7626 An Overview of Sinusoidal Oscillators Based on Memristive Devices. , 0, , .