Shu-Kai Duan

List of Publications by Year
in descending order

218 papers	4,869 citations	109321 35 h-index	128289 60 g-index
220 all docs	220 docs citations	220 times ranked	3362 citing authors

#	Article	IF	Citations
1	A White-Box Testing for Deep Neural Networks Based on Neuron Coverage. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 9185-9197.	11.3	6
2	Quantized and adaptive memristor based CNN (QA-mCNN) for image processing. Science China Information Sciences, 2022, 65, .	4.3	9
3	Reduction 93.7% time and power consumption using a memristor-based imprecise gradient update algorithm. Artificial Intelligence Review, 2022, 55, 657-677.	15.7	9
4	Subspace alignment based on an extreme learning machine for electronic nose drift compensation. Knowledge-Based Systems, 2022, 235, 107664.	7.1	19
5	MSL-MNN: image deraining based on multi-scale lightweight memristive neural network. Neural Computing and Applications, 2022, 34, 7299-7309.	5.6	4
6	Generating novel multi-scroll chaotic attractors via fractal transformation. Nonlinear Dynamics, 2022, 107, 3919-3944.	5.2	18
7	Volatile and Nonvolatile Memristive Devices for Neuromorphic Computing. Advanced Electronic Materials, 2022, 8, .	5.1	94
8	Artificial Intelligence Algorithm-Based Magnetic Resonance Imaging to Evaluate the Effect of Radiation Synovectomy for Hemophilic Arthropathy. Contrast Media and Molecular Imaging, 2022, 2022, 1-9.	0.8	1
9	A novel conservative system with hidden flows evolved from the simplest memristive circuit. Chaos, 2022, 32, 033111.	2.5	8
10	Memristive LIF Spiking Neuron Model and Its Application in Morse Code. Frontiers in Neuroscience, 2022, 16, 853010.	2.8	6
11	TDACNN: Target-domain-free domain adaptation convolutional neural network for drift compensation in gas sensors. Sensors and Actuators B: Chemical, 2022, 361, 131739.	7.8	20
12	Memristor ratioed logic crossbarâ€based delay and jumpâ€key flipâ€flops design. International Journal of Circuit Theory and Applications, 2022, 50, 1353-1364.	2.0	3
13	A novel memristor-based chaotic image encryption algorithm with Hash process and S-box. European Physical Journal: Special Topics, 2022, 231, 465-480.	2.6	6
14	Memristive Residual CapsNet: A hardware friendly multi-level capsule network. Neurocomputing, 2022, 496, 1-10.	5.9	4
15	A Simple Method for Constructing a Family of Hamiltonian Conservative Chaotic Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 3328-3338.	5.4	19
16	Memristive Izhikevich Spiking Neuron Model and Its Application in Oscillatory Associative Memory. Frontiers in Neuroscience, 2022, 16, 885322.	2.8	4
17	Memristive KDG-BNN: Memristive binary neural networks trained via knowledge distillation and generative adversarial networks. Knowledge-Based Systems, 2022, 249, 108962.	7.1	5
18	Spiking Spatio-Temporal Channle. , 2022, , .		0

#	ARTICLE	IF	CITATIONS
19	Computed Tomography Imaging under Artificial Intelligence Reconstruction Algorithm Used in Recovery of Sports Injury of the Knee Anterior Cruciate Ligament. Contrast Media and Molecular Imaging, 2022, 2022, 1-9.	0.8	0
20	An Improved Gumowski–Mira Map with Symmetric Lyapunov Exponents. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2022, 32, .	1.7	3
21	Lightweight Memristive Neural Network for Gas Classification Based on Heterogeneous Strategy. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2022, 32, .	1.7	1
22	High-temperature operation of v-MoS2 nanowalls/TiO2 photodetectors with excellent performances. Applied Surface Science, 2022, 599, 153904.	6.1	3
23	Deep Learning-Based CT Imaging for the Diagnosis of Liver Tumor. Computational Intelligence and Neuroscience, 2022, 2022, 1-7.	1.7	4
24	Nonlinear System Identification Using Dynamic Memristor-Based Reservoir Computing System. , 2022, , .		1
25	Dynamical analysis and image encryption application of a novel memristive hyperchaotic system. Optics and Laser Technology, 2021, 133, 106553.	4.6	66
26	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.	2.9	10
27	Improving the performance of drifted/shifted electronic nose systems by cross-domain transfer using common transfer samples. Sensors and Actuators B: Chemical, 2021, 329, 129162.	7.8	26
28	Reconfigurable logic circuit design for stateful Boolean logic computing. Science China Information Sciences, 2021, 64, 1.	4.3	2
29	Bayesian neural network enhancing reliability against conductance drift for memristor neural networks. Science China Information Sciences, 2021, 64, 1.	4.3	5
30	Chaotic Attractors Generated by a Memristor-Based Chaotic System and Julia Fractal. Chaos, Solitons and Fractals, 2021, 146, 110773.	5.1	25
31	Negative Photoconductance Effect: An Extension Function of the TiO$_x$â€Based Memristor. Advanced Science, 2021, 8, 2003765.	11.2	94
32	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.	1.7	1
33	Memristive combinational logic circuits and stochastic computing implementation scheme. Circuit World, 2021, ahead-of-print, .	0.9	0
34	Lightweight multi-dimensional memristive CapsNet. , 2021, , .		1
35	Sensor Drift Compensation of E-Nose Systems With Discriminative Domain Reconstruction Based on an Extreme Learning Machine. IEEE Sensors Journal, 2021, 21, 17144-17153.	4.7	17
36	A reconfigurable bidirectional associative memory network with memristor bridge. Neurocomputing, 2021, 454, 382-391.	5.9	14

#	ARTICLE	IF	CITATIONS
37	Performance Improvement of MoSâ,, Gas Sensor at Room Temperature. IEEE Transactions on Electron Devices, 2021, 68, 4644-4650.	3.0	5
38	Neuromorphic extreme learning machines with bimodal memristive synapses. Neurocomputing, 2021, 453, 38-49.	5.9	25
39	Memristive Hodgkin-Huxley Spiking Neuron Model for Reproducing Neuron Behaviors. Frontiers in Neuroscience, 2021, 15, 730566.	2.8	10
40	Memristive DeepLab: A hardware friendly deep CNN for semantic segmentation. Neurocomputing, 2021, 451, 181-191.	5.9	18
41	A novel memristor-based chaotic system with line equilibria and its complex dynamics. Modern Physics Letters B, 2021, 35, .	1.9	4
42	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.	1.7	12
43	A mixed-kernel, variable-dimension memristive CNN for electronic nose recognition. Neurocomputing, 2021, 461, 129-136.	5.9	16
44	High frequency patterns play a key role in the generation of adversarial examples. Neurocomputing, 2021, 459, 131-141.	5.9	7
45	An analogue memristor made of silk fibroin polymer. Journal of Materials Chemistry C, 2021, 9, 14583-14588.	5.5	22
46	A Multiring Julia Fractal Chaotic System With Separated-Scroll Attractors. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2021, 29, 2210-2219.	3.1	9
47	Local Manifold Embedding Cross-Domain Subspace Learning for Drift Compensation of Electronic Nose Data. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	13
48	A new opportunity for the emerging tellurium semiconductor: making resistive switching devices. Nature Communications, 2021, 12, 6081.	12.8	25
49	Memristor-based time-delay chaotic system with hidden extreme multi-stability and pseudo-random sequence generator. European Physical Journal: Special Topics, 2021, 230, 3481.	2.6	7
50	Memristor-based chaotic system with abundant dynamical behaviors and its application. European Physical Journal Plus, 2021, 136, 1.	2.6	8
51	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.	5.4	9
52	Designing a Novel Memristor-based Chaotic System Pumped by Cosine and its Application in Image Encryption. , 2021, , .		0
53	Implementation of circuit for reconfigurable memristive chaotic neural network and its application in associative memory. Neurocomputing, 2020, 380, 36-42.	5.9	22
54	An Improved Diffusion Affine Projection Estimation Algorithm for Wireless Sensor Networks. Circuits, Systems, and Signal Processing, 2020, 39, 3173-3188.	2.0	3

#	Article	IF	Citations
55	Secure distributed estimation against false data injection attack. Information Sciences, 2020, 515, 248-262.	6.9	43
56	Capacitive effect: An original of the resistive switching memory. Nano Energy, 2020, 68, 104386.	16.0	102
57	Pinning control for passivity and synchronization of coupled memristive reaction–diffusion neural networks with time-varying delay. Neurocomputing, 2020, 381, 113-129.	5.9	16
58	Memristor–based stateful logic gates for multi–functional logic circuit. IET Circuits, Devices and Systems, 2020, 14, 811-818.	1.4	13
59	Convolution Kernel Operations on a Two-Dimensional Spin Memristor Cross Array. Sensors, 2020, 20, 6229.	3.8	0
60	Self-Powered Memory Systems. , 2020, 2, 1669-1690.		15
61	MTL: Memristor Ternary Logic Design. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050222.	1.7	14
62	A novel versatile window function for memristor model with application in spiking neural network. Neurocomputing, 2020, 405, 239-246.	5.9	22
63	Communication-Reducing Algorithm of Distributed Least Mean Square Algorithm with Neighbor-Partial Diffusion. Circuits, Systems, and Signal Processing, 2020, 39, 4416-4435.	2.0	4
64	A Drift-Compensating Novel Deep Belief Classification Network to Improve Gas Recognition of Electronic Noses. IEEE Access, 2020, 8, 121385-121397.	4.2	19
65	Finite-Time Synchronization and Passivity of Multiple Delayed Coupled Neural Networks via Impulsive Control. IEEE Access, 2020, 8, 33532-33544.	4.2	4
66	Implementation of Unbalanced Ternary Logic Gates with the Combination of Spintronic Memristor and CMOS. Electronics (Switzerland), 2020, 9, 542.	3.1	15
67	A memristor-CMOS-based general-logic circuit and its applications. Scientia Sinica Informationis, 2020, 50, 289-302.	0.4	6
68	Impact Analysis of the Memristor Failure on Real-Time Control System of Robotic Arm. Neural Processing Letters, 2019, 49, 1321-1333.	3.2	1
69	Effect of Nickel Doping on Adsorption of SF_6 Decomposition Products over MoS_2 Surface. Jom, 2019, 71, 3971-3979.	1.9	13
70	Flexible memristor–based LUC and its network integration for Boolean logic implementation. IET Nanodielectrics, 2019, 2, 61-69.	4.1	15
71	A Novel Memristor-CMOS Hybrid Full-Adder and Its Application. Lecture Notes in Computer Science, 2019, , 556-564.	1.3	0
72	An Improved Memristor-Based Associative Memory Circuit for Full-Function Pavlov Experiment. Lecture Notes in Computer Science, 2019, , 603-610.	1.3	2

#	Article	IF	Citations
73	Resistive switching behaviors and memory logic functions in single MnO_x nanorod modulated by moisture. Chemical Communications, 2019, 55, 9915-9918.	4.1	51
74	Distributed Data-Selective DLMS Estimation Under Channel Attacks. IEEE Access, 2019, 7, 83863-83872.	4.2	6
75	Distributed Fast Supervised Discrete Hashing. IEEE Access, 2019, 7, 90003-90011.	4.2	5
76	Habituation characteristic implementation by synapse-like device based on memristor. , 2019, , .		1
77	Evolution map of the memristor: from pure capacitive state to resistive switching state. Nanoscale, 2019, 11, 17222-17229.	5.6	45
78	Ab Initio Study of SOF_2 and SO_2F_2 Adsorption on Co-MoS_2. ACS Omega, 2019, 4, 2517-2522.	3.5	19
79	A Robust Diffusion Minimum Kernel Risk-Sensitive Loss Algorithm over Multitask Sensor Networks. Sensors, 2019, 19, 2339.	3.8	11
80	Artificial and wearable albumen protein memristor arrays with integrated memory logic gate functionality. Materials Horizons, 2019, 6, 1877-1882.	12.2	116
81	Resistive switching memory integrated with amorphous carbon-based nanogenerators for self-powered device. Nano Energy, 2019, 63, 103793.	16.0	111
82	Adaptive sparse coding based on memristive neural network with applications. Cognitive Neurodynamics, 2019, 13, 475-488.	4.0	23
83	Training technique of electronic nose using labeled and unlabeled samples based on multi-kernel LapSVM. Sensors and Actuators B: Chemical, 2019, 294, 98-105.	7.8	10
84	Impulsive control for passivity and exponential synchronization of coupled neural networks with multiple weights. Journal of the Franklin Institute, 2019, 356, 5434-5463.	3.4	28
85	Impulsive delayed integro-differential inequality and its application on IMNNs with discrete and distributed delays. Neurocomputing, 2019, 341, 99-106.	5.9	4
86	Pinning Passivity of Reaction-Diffusion Neural Networks with and without Time-Varying Delay. , 2019, , .		0
87	Hybrid dualâ€complementary metalâ€"oxideâ€"semiconductor/memristor synapseâ€based neural network with its applications in image superâ€resolution. IET Circuits, Devices and Systems, 2019, 13, 1241-1248.	1.4	25
88	A B-site doped perovskite ferrate as an efficient anode of a solid oxide fuel cell with *in situ* metal exsolution. Journal of Materials Chemistry A, 2019, 7, 26944-26953.	10.3	37
89	Diffusion Sparse Sign Algorithm with Variable Step-Size. Circuits, Systems, and Signal Processing, 2019, 38, 1736-1750.	2.0	3
90	Markov Chain Based Efficient Defense Against Adversarial Examples in Computer Vision. IEEE Access, 2019, 7, 5695-5706.	4.2	5

#	Article	IF	Citations
91	A multi-layer memristive recurrent neural network for solving static and dynamic image associative memory. Neurocomputing, 2019, 334, 35-43.	5.9	14
92	A Memristor-Based Chaotic System withÂBoundary Conditions. , 2019, , 941-954.		0
93	Enhancing electronic nose performance based on a novel QPSO-RBM technique. Sensors and Actuators B: Chemical, 2018, 259, 241-249.	7.8	26
94	Coexistence of Negative Differential Resistance and Resistive Switching Memory at Room Temperature in TiO$_x$ Modulated by Moisture. Advanced Electronic Materials, 2018, 4, 1700567.	5.1	147
95	Kernel Online Learning Algorithm With Scale Adaptation. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1788-1792.	3.0	7
96	Diffusion generalized maximum correntropy criterion algorithm for distributed estimation over multitask network. , 2018, 81, 16-25.		61
97	An improved design of RBF neural network control algorithm based on spintronic memristor crossbar array. Neural Computing and Applications, 2018, 30, 1939-1946.	5.6	18
98	Diffusion least logarithmic absolute difference algorithm for distributed estimation. Signal Processing, 2018, 142, 423-430.	3.7	41
99	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.	1.7	28
100	Bayesian random Fourier filters for Gaussian noises. Science China Information Sciences, 2018, 61, 1.	4.3	0
101	Convergence Analysis of a Fixed Point Algorithm Under Maximum Complex Correntropy Criterion. IEEE Signal Processing Letters, 2018, 25, 1830-1834.	3.6	25
102	Diffusion Logarithm-Correntropy Algorithm for Parameter Estimation in Non-Stationary Environments over Sensor Networks. Sensors, 2018, 18, 3381.	3.8	2
103	Highly Sensitive Humidity Sensor Based on Oblique Carbon Nanoplumes. Sensors, 2018, 18, 3407.	3.8	7
104	Spintronic memristor synapse and its RWC learning algorithm. IET Circuits, Devices and Systems, 2018, 12, 579-588.	1.4	5
105	Analysis and Circuit Implementation of a Novel Memristor Based Hyper-chaotic System. Lecture Notes in Computer Science, 2018, , 364-371.	1.3	0
106	A general memristor-based pulse coupled neural network with variable linking coefficient for multi-focus image fusion. Neurocomputing, 2018, 308, 172-183.	5.9	60
107	Random Fourier Filters Under Maximum Correntropy Criterion. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 3390-3403.	5.4	48
108	SRMC: A Multibit Memristor Crossbar for Self-Renewing Image Mask. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 2830-2841.	3.1	9

#	ARTICLE	IF	CITATIONS
109	A Multi-Scroll Memristive Chaotic System via Fractal Process. , 2018, , .		1
110	Passivity and synchronization of coupled reaction–diffusion neural networks with multiple time-varying delays via impulsive control. Neurocomputing, 2018, 318, 30-42.	5.9	24
111	Impulsive Effects and Stability Analysis on Memristive Neural Networks With Variable Delays. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 476-481.	11.3	49
112	Exponential Stability of Complex-Valued Memristive Recurrent Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 766-771.	11.3	141
113	Exponential stability analysis of delayed memristor-based recurrent neural networks with impulse effects. Neural Computing and Applications, 2017, 28, 669-678.	5.6	16
114	Multiple memristor series–parallel connections with use in synaptic circuit design. IET Circuits, Devices and Systems, 2017, 11, 123-134.	1.4	19
115	A Memristive Multilayer Cellular Neural Network With Applications to Image Processing. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1889-1901.	11.3	122
116	Quantized kernel maximum correntropy and its mean square convergence analysis. , 2017, 63, 164-176.		42
117	A Modified Variational Bayesian Noise Adaptive Kalman Filter. Circuits, Systems, and Signal Processing, 2017, 36, 4260-4277.	2.0	26
118	Kernel Recursive Least Squares With Multiple Feedback and Its Convergence Analysis. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 1237-1241.	3.0	14
119	Route searching based on neural networks and heuristic reinforcement learning. Cognitive Neurodynamics, 2017, 11, 245-258.	4.0	6
120	A novel electronic nose learning technique based on active learning: EQBC-RBFNN. Sensors and Actuators B: Chemical, 2017, 249, 533-541.	7.8	23
121	A multi–wing butterfly chaotic system and its implementation. International Journal of Circuit Theory and Applications, 2017, 45, 1873-1884.	2.0	14
122	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.	5.9	2
123	Study on the local structure and EPR spectroscopy of compressed CuX$_4$ (X = N, S, Cl and) Tj ETQq1 1 0.784314 rgBT /Ov	1.7	1
124	Mesoscopic chaos mediated by Drude electron-hole plasma in silicon optomechanical oscillators. Nature Communications, 2017, 8, 15570.	12.8	47
125	Fusion of Image Storage and Operation Based on Ag-Chalcogenide Memristor with Synaptic Plasticity. Journal of Circuits, Systems and Computers, 2017, 26, 1750161.	1.5	5
126	Synchronization of memristive delayed neural networks via hybrid impulsive control. Neurocomputing, 2017, 267, 615-623.	5.9	22

#	ARTICLE	IF	CITATIONS
127	Modeling affections with memristor-based associative memory neural networks. Neurocomputing, 2017, 223, 129-137.	5.9	58
128	Pseudogap of Ortho-III YBa2Cu3O7â˜’x from Cu EPR investigation. Journal of Alloys and Compounds, 2017, 690, 169-175.	5.5	7
129	Memristive pulse coupled neural network with applications in medical image processing. Neurocomputing, 2017, 227, 149-157.	5.9	51
130	A multi-scroll chaotic system with novel attractors: Dynamics, circuit implementation and synchronization. , 2017, , .		1
131	Mixed-Degree Spherical Simplex-Radial Cubature Kalman Filter. Mathematical Problems in Engineering, 2017, 2017, 1-9.	1.1	6
132	A Robust Diffusion Estimation Algorithm with Self-Adjusting Step-Size in WSNs. Sensors, 2017, 17, 824.	3.8	11
133	Self-Taught Learning Based on Sparse Autoencoder for E-Nose in Wound Infection Detection. Sensors, 2017, 17, 2279.	3.8	17
134	A Novel Pre-Processing Technique for Original Feature Matrix of Electronic Nose Based on Supervised Locality Preserving Projections. Sensors, 2016, 16, 1019.	3.8	10
135	A Novel Semi-Supervised Electronic Nose Learning Technique: M-Training. Sensors, 2016, 16, 370.	3.8	5
136	Enhancing Electronic Nose Performance Based on a Novel QPSO-KELM Model. Sensors, 2016, 16, 520.	3.8	22
137	A Novel Optimization Technique to Improve Gas Recognition by Electronic Noses Based on the Enhanced Krill Herd Algorithm. Sensors, 2016, 16, 1275.	3.8	8
138	A Novel Semi-Supervised Method of Electronic Nose for Indoor Pollution Detection Trained by M-S4VMs. Sensors, 2016, 16, 1462.	3.8	4
139	Hybrid feature matrix construction and feature selection optimization-based multi-objective QPSO for electronic nose in wound infection detection. Sensor Review, 2016, 36, 23-33.	1.8	26
140	Exponential stability of impulsive differential systems with variable delays. , 2016, , .		0
141	Sparse Huber adaptive filter with correntropy induced metric penalty. , 2016, , .		0
142	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.	1.7	7
143	Novel Existence and Stability Criteria of Periodic Solutions for Impulsive Delayed Neural Networks Via Coefficient Integral Averages. Neurocomputing, 2016, 216, 587-595.	5.9	3
144	A memristive chaotic system with heart-shaped attractors and its implementation. Chaos, Solitons and Fractals, 2016, 92, 20-29.	5.1	36

#	Article	IF	Citations
145	Simplified quantised kernel least mean square algorithm with fixed budget. Electronics Letters, 2016, 52, 1453-1455.	1.0	3
146	Multiple Memristor Circuit Parametric Fault Diagnosis Using Feedback-Control Doublet Generator. IEEE Access, 2016, 4, 2604-2614.	4.2	15
147	A flexible humidity sensor based on KC–MWCNTs composites. Applied Surface Science, 2016, 387, 149-154.	6.1	41
148	Novel Stability Criteria for Impulsive Memristive Neural Networks with Time-Varying Delays. Circuits, Systems, and Signal Processing, 2016, 35, 3935-3956.	2.0	17
149	A novel memristive cellular neural network with time-variant templates. Perspectives in Science, 2016, 7, 126-132.	0.6	1
150	Stability criterion of linear delayed impulsive differential systems with impulse time windows. International Journal of Control, Automation and Systems, 2016, 14, 174-180.	2.7	12
151	Globally exponential stability of delayed impulsive functional differential systems with impulse time windows. Nonlinear Dynamics, 2016, 84, 1655-1665.	5.2	26
152	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.	9.3	77
153	Pavlov associative memory in a memristive neural network and its circuit implementation. Neurocomputing, 2016, 171, 23-29.	5.9	71
154	Small-world Hopfield neural networks with weight salience priority and memristor synapses for digit recognition. Neural Computing and Applications, 2016, 27, 837-844.	5.6	50
155	A Novel Feature Extraction Approach Using Window Function Capturing and QPSO-SVM for Enhancing Electronic Nose Performance. Sensors, 2015, 15, 15198-15217.	3.8	21
156	An Enhanced Quantum-Behaved Particle Swarm Optimization Based on a Novel Computing Way of Local Attractor. Information (Switzerland), 2015, 6, 633-649.	2.9	16
157	Electronic Nose Feature Extraction Methods: A Review. Sensors, 2015, 15, 27804-27831.	3.8	207
158	Uniform stability of nonautonomous impulsive differential systems with time delay. , 2015, , .		0
159	Memristor-based neural network PID controller for buck converter. , 2015, , .		5
160	A threshold adaptive memristor model analysis with application in image storage. , 2015, , .		1
161	Stability of impulsive delayed linear differential systems with delayed impulses. Journal of the Franklin Institute, 2015, 352, 3044-3068.	3.4	26
162	A spintronic memristor bridge synapse circuit and the application in memrisitive cellular automata. Neurocomputing, 2015, 167, 346-351.	5.9	26

#	Article	IF	Citations
163	A novel memristive electronic synapse-based Hermite chaotic neural network with application in cryptography. Neurocomputing, 2015, 166, 487-495.	5.9	35
164	Multilayer RTD-memristor-based cellular neural networks for color image processing. Neurocomputing, 2015, 162, 150-162.	5.9	45
165	Composite Characteristics of Memristor Series and Parallel Circuits. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1530019.	1.7	10
166	Composite behaviors of series and parallel meminductor circuits. , 2015, , .		0
167	Memristor-Based Cellular Nonlinear/Neural Network: Design, Analysis, and Applications. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1202-1213.	11.3	232
168	A Novel Four-Dimensional Memristive Hyperchaotic System with Its Analog Circuit Implementation. Lecture Notes in Computer Science, 2015, , 157-165.	1.3	1
169	A Novel Memristive Multilayer Feedforward Small-World Neural Network with Its Applications in PID Control. Scientific World Journal, The, 2014, 2014, 1-12.	2.1	13
170	Emerging memristor technology enabled next generation cortical processor. , 2014, , .		2
171	An adjustable memristor model and its application in small-world neural networks. , 2014, , .		6
172	A Memristor-Based Chaotic System with Bifurcation Analysis. , 2014, , .		1
173	Global exponential stability of a class of memristive neural networks with time-varying delays. Neural Computing and Applications, 2014, 24, 1707-1715.	5.6	47
174	Analog memristive memory with applications in audio signal processing. Science China Information Sciences, 2014, 57, 1-15.	4.3	28
175	A Weakly Connected Memristive Neural Network for Associative Memory. Neural Processing Letters, 2014, 40, 275-288.	3.2	2
176	Hybrid memristor/RTD structure-based cellular neural networks with applications in image processing. Neural Computing and Applications, 2014, 25, 291-296.	5.6	31
177	A Memristor-Based Chaotic System with Boundary Conditions. , 2014, , 351-364.		18
178	A Memristor-Based Scroll Chaotic System â€" Design, Analysis and Circuit Implementation. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1450099.	1.7	49
179	Memristor Modeling -- Static, Statistical, and Stochastic Methodologies. , 2014, , .		1
180	Memristor-based chaotic neural networks for associative memory. Neural Computing and Applications, 2014, 25, 1437-1445.	5.6	26

#	ARTICLE	IF	CITATIONS
181	Design of Memristive Neural Network PID Controller. Jisuanji Xuebao/Chinese Journal of Computers, 2014, 36, 2577-2586.	0.3	3
182	Associate learning and correcting in a memristive neural network. Neural Computing and Applications, 2013, 22, 1071-1076.	5.6	47
183	Memristive Perceptron for Combinational Logic Classification. Mathematical Problems in Engineering, 2013, 2013, 1-7.	1.1	3
184	Modeling, Analysis, and Applications of Complex Systems. Abstract and Applied Analysis, 2013, 2013, 1-1.	0.7	0
185	PID Controller Based on Memristive CMAC Network. Abstract and Applied Analysis, 2013, 2013, 1-6.	0.7	15
186	Resonant Tunneling Diodes-Based Cellular Nonlinear Networks with Fault Tolerance Analysis. Mathematical Problems in Engineering, 2013, 2013, 1-8.	1.1	2
187	Memristive Chebyshev Neural Network and Its Applications in Function Approximation. Mathematical Problems in Engineering, 2013, 2013, 1-7.	1.1	6
188	A Chaotic Attractor in Delayed Memristive System. Abstract and Applied Analysis, 2012, 2012, 1-8.	0.7	6
189	A Novel Chaotic Neural Network Using Memristive Synapse with Applications in Associative Memory. Abstract and Applied Analysis, 2012, 2012, 1-19.	0.7	14
190	HIGH-ORDER ILC WITH INITIAL STATE LEARNING FOR DISCRETE-TIME DELAYED SYSTEMS. Cybernetics and Systems, 2012, 43, 48-61.	2.5	3
191	Derivatives of MultivariateBernsteinOperators and Smoothness withJacobiWeights. Journal of Applied Mathematics, 2012, 2012, 1-9.	0.9	0
192	Memristive crossbar array with applications in image processing. Science China Information Sciences, 2012, 55, 461-472.	4.3	56
193	Robust Exponential Stability of Uncertain Delayed Neural Networks With Stochastic Perturbation and Impulse Effects. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 866-875.	11.3	313
194	The charging and discharging characteristics of memcapacitor storage with applications. , 2012, , .		3
195	MEMRISTOR MODEL AND ITS APPLICATION FOR CHAOS GENERATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250205.	1.7	111
196	Predicting chaos in memristive oscillator via harmonic balance method. Chaos, 2012, 22, 043119.	2.5	13
197	Exponential Stability of Discrete-Time Delayed Hopfield Neural Networks with Stochastic Perturbations and Impulses. Results in Mathematics, 2012, 62, 73-87.	0.8	8
198	Memristor-based RRAM with applications. Science China Information Sciences, 2012, 55, 1446-1460.	4.3	53

#	Article	IF	Citations
199	Exponential stability of impulsive discrete systems with time delay and applications in stochastic neural networks: A Razumikhin approach. Neurocomputing, 2012, 82, 29-36.	5.9	34
200	Memristive Device Based Filter and Integration Circuits with Applications. Advanced Science Letters, 2012, 8, 194-199.	0.2	4
201	Stabilization of oscillating neural networks with time-delay by intermittent control. International Journal of Control, Automation and Systems, 2011, 9, 1074-1079.	2.7	27
202	Approximation Order for Multivariate Durrmeyer Operators with Jacobi Weights. Abstract and Applied Analysis, 2011, 2011, 1-12.	0.7	2
203	Memristive Multilevel Memory with Applications in Audio Signal Storage. Lecture Notes in Computer Science, 2011, , 228-235.	1.3	6
204	True random number generation from mobile telephone photo based on chaotic cryptography. Chaos, Solitons and Fractals, 2009, 42, 1692-1699.	5.1	26
205	A novel delayed chaotic neural model and its circuitry implementation. Computers and Mathematics With Applications, 2009, 57, 1736-1742.	2.7	13
206	Circuitry Implementation for a Simple Delayed Chaotic Neural Model with PWL Function. , 2008, , .		0
207	Adaptive Synchronization between Two Delayed Chaotic Systems Based on Parameter Identification. , 2008, , .		0
208	Generation and Circuitry Implementation of an N-Double Scroll Delayed Chaotic Neuron. , 2008, , .		1
209	Generation of delayed chaotic neuron with an axisymmetric activation function. , 2008, , .		0
210	Chaos Synchronization between Coupled Hyperchaotic Systems and Its Circuitry Implementation. , 2008, , .		0
211	Associative Memory and Successive Learning in Chaotic Neural Network. , 2007, , .		0
212	Analysis of Fault Tolerance of Cellular Neural Networks and Applications to Image Processing. , 2007, , .		1
213	An electronic implementation for Liao's chaotic delayed neuron model with non-monotonous activation function. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 369, 37-43.	2.1	58
214	Adaptive Synchronization of Coupled FitzHugh_Nagumo Systems. , 2006, , .		0
215	A novel chaotic neural network for many-to-many associations and successive learning. , 2003, , .		2
216	Chaos synchronization of coupled Chen_Liao system. , 0, , .		1

#	Article	IF	Citations
217	Reconfigurable nonvolatile boolean logic with one-transistor-two-memristor for in-memory computing. Semiconductor Science and Technology, 0, , .	2.0	1
218	Transient Response and Firing Behaviors of Memristive Neuron Circuit. Frontiers in Neuroscience, 0, 16, .	2.8	1