Quan Xu

List of Publications by Year
in descending order

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		101384	114278
97	4,228	36	63
papers	citations	h-index	g-index

97	97	97	1027
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hidden extreme multistability in memristive hyperchaotic system. Chaos, Solitons and Fractals, 2017, 94, 102-111.	2.5	344
2	Multiple attractors in a non-ideal active voltage-controlled memristor based Chua's circuit. Chaos, Solitons and Fractals, 2016, 83, 186-200.	2.5	238
3	Extreme multistability in a memristive circuit. Electronics Letters, 2016, 52, 1008-1010.	0.5	198
4	Coexisting infinitely many attractors in active band-pass filter-based memristive circuit. Nonlinear Dynamics, 2016, 86, 1711-1723.	2.7	194
5	Dynamics of self-excited attractors and hidden attractors in generalized memristor-based Chuaâ€™s circuit. Nonlinear Dynamics, 2015, 81, 215-226.	2.7	159
6	Multistability in Chua's circuit with two stable node-foci. Chaos, 2016, 26, 043111.	1.0	147
7	Chaotic and periodic bursting phenomena in a memristive Wien-bridge oscillator. Nonlinear Dynamics, 2016, 83, 893-903.	2.7	139
8	Coexisting Behaviors of Asymmetric Attractors in Hyperbolic-Type Memristor based Hopfield Neural Network. Frontiers in Computational Neuroscience, 2017, 11, 81.	1.2	137
9	Controlling extreme multistability of memristor emulator-based dynamical circuit in fluxâ€“charge domain. Nonlinear Dynamics, 2018, 91, 1395-1412.	2.7	108
10	Three-Dimensional Memristive Hindmarshâ€“Rose Neuron Model with Hidden Coexisting Asymmetric Behaviors. Complexity, 2018, 2018, 1-11.	0.9	95
11	Memristor initial boosting behaviors in a two-memristor-based hyperchaotic system. Chaos, Solitons and Fractals, 2019, 121, 178-185.	2.5	90
12	Numerical analyses and experimental validations of coexisting multiple attractors in Hopfield neural network. Nonlinear Dynamics, 2017, 90, 2359-2369.	2.7	88
13	A Simple Third-Order Memristive Band Pass Filter Chaotic Circuit. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 977-981.	2.2	86
14	Multistability induced by two symmetric stable node-foci in modified canonical Chuaâ€™s circuit. Nonlinear Dynamics, 2017, 87, 789-802.	2.7	78
15	Initial-induced coexisting and synchronous firing activities in memristor synapse-coupled Morrisâ€“Lecar bi-neuron network. Nonlinear Dynamics, 2020, 99, 2339-2354.	2.7	76
16	AC-induced coexisting asymmetric bursters in the improved Hindmarshâ€“Rose model. Nonlinear Dynamics, 2018, 92, 1695-1706.	2.7	71
17	Numerical and experimental confirmations of quasi-periodic behavior and chaotic bursting in third-order autonomous memristive oscillator. Chaos, Solitons and Fractals, 2018, 106, 161-170.	2.5	69
18	Chaotic Bursting Dynamics and Coexisting Multistable Firing Patterns in 3D Autonomous Morrisâ€“Lecar Model and Microcontroller-Based Validations. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1950134.	0.7	67

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19	Two-neuron-based non-autonomous memristive Hopfield neural network: Numerical analyses and hardware experiments. AEU - International Journal of Electronics and Communications, 2018, 96, 66-74.	1.7	66
20	Bifurcations to bursting and spiking in the Chay neuron and their validation in a digital circuit. Chaos, Solitons and Fractals, 2020, 141, 110353.	2.5	65
21	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
22	A Survey on True Random Number Generators Based on Chaos. Discrete Dynamics in Nature and Society, 2019, 2019, 1-10.	0.5	58
23	Self-Excited and Hidden Attractors Found Simultaneously in a Modified Chua's Circuit. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550075.	0.7	57
24	Electromagnetic induction effects on electrical activity within a memristive Wilson neuron model. Cognitive Neurodynamics, 2022, 16, 1221-1231.	2.3	57
25	Dynamical Effects of Neuron Activation Gradient on Hopfield Neural Network: Numerical Analyses and Hardware Experiments. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1930010.	0.7	54
26	Chaotic bursting in memristive diode bridgeâ€coupled Sallenâ€Key lowpass filter. Electronics Letters, 2017, 53, 1104-1105.	0.5	51
27	Non-Autonomous Second-Order Memristive Chaotic Circuit. IEEE Access, 2017, 5, 21039-21045.	2.6	51
28	Asymmetric coexisting bifurcations and multi-stability in an asymmetric memristive diode-bridge-based Jerk circuit. Chinese Journal of Physics, 2021, 70, 69-81.	2.0	51
29	Third-order RLCM-four-elements-based chaotic circuit and its coexisting bubbles. AEU - International Journal of Electronics and Communications, 2018, 94, 26-35.	1.7	50
30	Bifurcation analyses and hardware experiments for bursting dynamics in non-autonomous memristive FitzHugh-Nagumo circuit. Science China Technological Sciences, 2020, 63, 1035-1044.	2.0	47
31	Inductor-free simplified Chuaâ€™s circuit only using two-op-amp-based realization. Nonlinear Dynamics, 2016, 84, 511-525.	2.7	46
32	Periodically varied initial offset boosting behaviors in a memristive system with cosine memductance. Frontiers of Information Technology and Electronic Engineering, 2019, 20, 1706-1716.	1.5	46
33	Continuous non-autonomous memristive Rulkov model with extreme multistability*. Chinese Physics B, 2021, 30, 128702.	0.7	46
34	Memristor Synapse-Based Morrisâ€“Lecar Model: Bifurcation Analyses and FPGA-Based Validations for Periodic and Chaotic Bursting/Spiking Firings. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050045.	0.7	42
35	State variable mapping method for studying initial-dependent dynamics in memristive hyper-jerk system with line equilibrium. Chaos, Solitons and Fractals, 2018, 115, 313-324.	2.5	41
36	Secure Communication Scheme Based on a New 5D Multistable Four-Wing Memristive Hyperchaotic System with Disturbance Inputs. Complexity, 2020, 2020, 1-16.	0.9	39

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37	Parallel bi-memristor hyperchaotic map with extreme multistability. Chaos, Solitons and Fractals, 2022, 160, 112273.	2.5	39
38	Interpreting initial offset boosting via reconstitution in integral domain. Chaos, Solitons and Fractals, 2020, 131, 109544.	2.5	37
39	Memristor-Based Canonical Chuaâ€™s Circuit: Extreme Multistability in Voltage-Current Domain and Its Controllability in Flux-Charge Domain. Complexity, 2018, 2018, 1-13.	0.9	34
40	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
41	CCII and FPGA Realization: A Multistable Modified Fourth-Order Autonomous Chuaâ€™s Chaotic System with Coexisting Multiple Attractors. Complexity, 2020, 2020, 1-17.	0.9	34
42	Global multistability and analog circuit implementation of an adapting synapse-based neuron model. Nonlinear Dynamics, 2020, 101, 1105-1118.	2.7	33
43	Chaotic flows with special equilibria. European Physical Journal: Special Topics, 2020, 229, 905-919.	1.2	33
44	Crisisâ€induced coexisting multiple attractors in a secondâ€order nonautonomous memristive diode bridgeâ€based circuit. International Journal of Circuit Theory and Applications, 2018, 46, 1917-1927.	1.3	31
45	Extremely slow passages in low-pass filter-based memristive oscillator. Nonlinear Dynamics, 2019, 97, 2339-2353.	2.7	31
46	Flux-Charge Analysis of Initial State-Dependent Dynamical Behaviors of a Memristor Emulator-Based Chuaâ€™s Circuit. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1850120.	0.7	30
47	Smooth nonlinear fitting scheme for analog multiplierless implementation of Hindmarshâ€“Rose neuron model. Nonlinear Dynamics, 2021, 104, 4379-4389.	2.7	29
48	Hidden attractors in a practical Chua's circuit based on a modified Chua's diode. Electronics Letters, 2016, 52, 23-25.	0.5	27
49	DC-offset induced asymmetry in memristive diode-bridge-based Shinriki oscillator. Chaos, Solitons and Fractals, 2022, 154, 111624.	2.5	27
50	Chaos in a second-order non-autonomous Wien-bridge oscillator without extra nonlinearity. Circuit World, 2018, 44, 108-114.	0.7	26
51	Analog/Digital Multiplierless Implementations for Nullcline-Characteristics-Based Piecewise Linear Hindmarsh-Rose Neuron Model. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 2916-2927.	3.5	26
52	Trapped photons at a Dirac point: a new horizon for photonic crystals. Laser and Photonics Reviews, 2014, 8, 583-589.	4.4	25
53	Forward and reverse asymmetric memristor-based jerk circuits. AEU - International Journal of Electronics and Communications, 2020, 123, 153294.	1.7	25
54	Numerical analyses and breadboard experiments of twin attractors in two-neuron-based non-autonomous Hopfield neural network. European Physical Journal: Special Topics, 2018, 227, 777-786.	1.2	22

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55	Periodically Switched Memristor Initial Boosting Behaviors in Memristive Hypogenetic Jerk System. IEEE Access, 2019, 7, 145022-145029.	2.6	22
56	Hybrid State Variable Incremental Integral for Reconstructing Extreme Multistability in Memristive Jerk System with Cubic Nonlinearity. Complexity, 2019, 2019, 1-16.	0.9	21
57	A Simple Nonautonomous Hidden Chaotic System with a Switchable Stable Node-Focus. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1950168.	0.7	18
58	A non-autonomous conservative system and its reconstitution in integral domain. Nonlinear Dynamics, 2021, 103, 643-655.	2.7	18
59	Asymmetric memristive Chuaâ€™s chaotic circuits. International Journal of Electronics, 0, , 1-18.	0.9	17
60	Reconstitution for interpreting hidden dynamics with stable equilibrium point. Chaos, Solitons and Fractals, 2020, 140, 110188.	2.5	16
61	Piecewise-Linear Simplification for Adaptive Synaptic Neuron Model. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1832-1836.	2.2	16
62	A single neuron model with memristive synaptic weight. Chinese Journal of Physics, 2022, 76, 217-227.	2.0	16
63	Initial-condition-switched boosting extreme multistability and mechanism analysis in a memcapacitive oscillator. Frontiers of Information Technology and Electronic Engineering, 2021, 22, 1517-1531.	1.5	15
64	An Improved Memristive Diode Bridge-Based Band Pass Filter Chaotic Circuit. Mathematical Problems in Engineering, 2017, 2017, 1-11.	0.6	14
65	Wien-bridge chaotic oscillator based on fisrt-order generalized memristor. Wuli Xuebao/Acta Physica Sinica, 2014, 63, 240505.	0.2	14
66	Electromagnetic radiation induced non-chaotic behaviors in a Wilson neuron model. Chinese Journal of Physics, 2022, 77, 214-222.	2.0	14
67	Parameter and initial offset boosting dynamics in two-memristor-based Colpitts system. European Physical Journal: Special Topics, 2021, 230, 1709-1721.	1.2	13
68	Coexisting Infinitely Many Nonchaotic Attractors in a Memristive Weight-Based Tabu Learning Neuron. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2150189.	0.7	13
69	Initial conditions-related dynamical behaviors in PI-type memristor emulator-based canonical Chuaâ€™s circuit. Circuit World, 2018, 44, 178-186.	0.7	12
70	FPGA-based Experimental Validations of Electrical Activities in Two Adjacent FitzHughâ€“Nagumo Neurons Coupled by Memristive Electromagnetic Induction. IETE Technical Review (Institution of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.1	10
71	Parallel-Type Asymmetric Memristive Diode-Bridge Emulator and Its Induced Asymmetric Attractor. IEEE Access, 2020, 8, 156299-156307.	2.6	10
72	Colpitts Chaotic Oscillator Coupling with a Generalized Memristor. Mathematical Problems in Engineering, 2015, 2015, 1-9.	0.6	9

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73	Parameter-Independent Dynamical Behaviors in Memristor-Based Wien-Bridge Oscillator. Mathematical Problems in Engineering, 2017, 2017, 1-13.	0.6	8
74	Emerging multiâ€doubleâ€scroll attractor from variableâ€boostable chaotic system excited by multiâ€level pulse. Journal of Engineering, 2018, 2018, 42-44.	0.6	8
75	An Innovative Near-Field Communication Security Based on the Chaos Generated by Memristive Circuits Adopted as Symmetrical Key. IEEE Access, 2020, 8, 167975-167984.	2.6	8
76	Abundant Coexisting Multiple Attractorsâ€™ Behaviors in Three-Dimensional Sine Chaotic System. Complexity, 2019, 2019, 1-11.	0.9	7
77	Analogy circuit synthesis and dynamics confirmation of a bipolar pulse current-forced 2D Wilson neuron model. European Physical Journal: Special Topics, 2021, 230, 1989-1997.	1.2	7
78	Extreme Multistability and Its Incremental Integral Reconstruction in a Non-Autonomous Memcapacitive Oscillator. Mathematics, 2022, 10, 754.	1.1	7
79	Infinitely Many Necklace-Shaped Coexisting Attractors in a Nonautonomous Memcapacitive Oscillator. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2022, 32, .	0.7	6
80	Analysis of space off-axis and performance of Cassegrain optical antenna system. Optik, 2010, 121, 1688-1692.	1.4	5
81	Inductor-free multi-stable Chuaâ€™s circuit constructed by improved PI-type memristor emulator and active Sallenâ€“Key high-pass filter. European Physical Journal: Special Topics, 2019, 228, 1983-1994.	1.2	5
82	A FEASIBLE MEMRISTIVE CHUA'S CIRCUIT VIA BRIDGING A GENERALIZED MEMRISTOR. Journal of Applied Analysis and Computation, 2016, 6, 1152-1163.	0.2	5
83	Periodic defect modes of one-dimensional crystals containing single-negative materials. Optik, 2010, 121, 1558-1562.	1.4	4
84	Riddled Attraction Basin and Multistability in Three-Element-Based Memristive Circuit. Complexity, 2020, 2020, 1-13.	0.9	4
85	Inductorless chaotic circuit based on active generalized memristors. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 170503.	0.2	4
86	Multistability and coexisting attractors in a non-autonomous memristive Jerk circuit: numerical simulations and hardware measurements. European Physical Journal: Special Topics, 2022, 231, 3079-3086.	1.2	4
87	New type optical Cassegrain antenna with lenses telescope system. Optik, 2010, 121, 521-525.	1.4	3
88	The properties of two-dimensional photonic crystals bandgap structure with rhombus lattice. Optik, 2014, 125, 104-106.	1.4	3
89	Synchronous Behavior for Memristive Synapse-Connected Chay Twin-Neuron Network and Hardware Implementation. Mathematical Problems in Engineering, 2020, 2020, 1-12.	0.6	3
90	Photonic band gaps of two-dimensional square-lattice photonic crystals based on 8-shaped scatters. Optik, 2015, 126, 2287-2290.	1.4	2

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91	Third-Order Generalized Memristor-Based Chaotic Circuit and its Complex Dynamics. , 2018, , .		2
92	Symmetrically scaled coexisting behaviors in two types of simple jerk circuits. Circuit World, 2020, 47, 61-70.	0.7	2
93	Multi-stable patterns coexisting in memristor synapse-coupled Hopfield neural network. , 2021, , 439-459.		2
94	Network dynamics of coupled Chua circuits: comparison of different coupling elements. European Physical Journal: Special Topics, 0, , .	1.2	2
95	Optimize design super collimation in square lattice two-dimensional photonic crystals. Optik, 2010, 121, 1573-1576.	1.4	1
96	Optical peculiarities in quasi-sandwiching periodic one-dimensional photonic crystals. Optik, 2010, 121, 1268-1273.	1.4	0
97	A Novel True Random Number Generator in Near Field Communication as Memristive Wireless Power Transmission. J, 2021, 4, 764-783.	0.6	0