

# Quan Xu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94  
papers

2,810  
citations

27  
h-index

51  
g-index

97  
ext. papers

3,594  
ext. citations

3.2  
avg, IF

5.83  
L-index

#	Paper	IF	Citations
94	A single neuron model with memristive synaptic weight. <i>Chinese Journal of Physics</i> , <b>2022</b> , 76, 217-227	3.5	2
93	Extreme Multistability and Its Incremental Integral Reconstruction in a Non-Autonomous Memcapacitive Oscillator. <i>Mathematics</i> , <b>2022</b> , 10, 754	2.3	2
92	Infinitely Many Necklace-Shaped Coexisting Attractors in a Nonautonomous Memcapacitive Oscillator. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2022</b> , 32,	2	1
91	Electromagnetic radiation induced non-chaotic behaviors in a Wilson neuron model. <i>Chinese Journal of Physics</i> , <b>2022</b> , 77, 214-222	3.5	0
90	Analog/Digital Multiplierless Implementations for Nullcline-Characteristics-Based Piecewise Linear Hindmarsh-Rose Neuron Model. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2022</b> , 1-12	3.9	2
89	A Novel True Random Number Generator in Near Field Communication as Memristive Wireless Power Transmission. <i>J</i> , <b>2021</b> , 4, 764-783	1.9	
88	Initial-condition-switched boosting extreme multistability and mechanism analysis in a memcapacitive oscillator. <i>Frontiers of Information Technology and Electronic Engineering</i> , <b>2021</b> , 22, 1517-1531	2.2	5
87	DC-offset induced asymmetry in memristive diode-bridge-based Shinriki oscillator. <i>Chaos, Solitons and Fractals</i> , <b>2021</b> , 111624	9.3	7
86	Piecewise-Linear Simplification for Adaptive Synaptic Neuron Model. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2021</b> , 1-1	3.5	3
85	Smooth nonlinear fitting scheme for analog multiplierless implementation of Hindmarsh-Rose neuron model. <i>Nonlinear Dynamics</i> , <b>2021</b> , 104, 4379	5	7
84	Parameter and initial offset boosting dynamics in two-memristor-based Colpitts system. <i>European Physical Journal: Special Topics</i> , <b>2021</b> , 230, 1709-1721	2.3	5
83	Analogy circuit synthesis and dynamics confirmation of a bipolar pulse current-forced 2D Wilson neuron model. <i>European Physical Journal: Special Topics</i> , <b>2021</b> , 230, 1989-1997	2.3	1
82	Asymmetric coexisting bifurcations and multi-stability in an asymmetric memristive diode-bridge-based Jerk circuit. <i>Chinese Journal of Physics</i> , <b>2021</b> , 70, 69-81	3.5	12
81	Multi-stable patterns coexisting in memristor synapse-coupled Hopfield neural network <b>2021</b> , 439-459		1
80	Coexisting Infinitely Many Nonchaotic Attractors in a Memristive Weight-Based Tabu Learning Neuron. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2021</b> , 31, 2150189	2.189	5
79	A non-autonomous conservative system and its reconstitution in integral domain. <i>Nonlinear Dynamics</i> , <b>2021</b> , 103, 643-655	5	6
78	Forward and reverse asymmetric memristor-based jerk circuits. <i>AEU - International Journal of Electronics and Communications</i> , <b>2020</b> , 123, 153294	2.8	17

77	Chaotic flows with special equilibria. <i>European Physical Journal: Special Topics</i> , <b>2020</b> , 229, 905-919	2.3	13
76	Memristor Synapse-Based Morris-Lecar Model: Bifurcation Analyses and FPGA-Based Validations for Periodic and Chaotic Bursting/Spiking Firings. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2020</b> , 30, 2050045	2	20
75	Bifurcation analyses and hardware experiments for bursting dynamics in non-autonomous memristive FitzHugh-Nagumo circuit. <i>Science China Technological Sciences</i> , <b>2020</b> , 63, 1035-1044	3.5	15
74	Secure Communication Scheme Based on a New 5D Multistable Four-Wing Memristive Hyperchaotic System with Disturbance Inputs. <i>Complexity</i> , <b>2020</b> , 2020, 1-16	1.6	27
73	Initial-induced coexisting and synchronous firing activities in memristor synapse-coupled Morris-Lecar bi-neuron network. <i>Nonlinear Dynamics</i> , <b>2020</b> , 99, 2339-2354	5	27
72	Interpreting initial offset boosting via reconstitution in integral domain. <i>Chaos, Solitons and Fractals</i> , <b>2020</b> , 131, 109544	9.3	15
71	Bifurcations to bursting and spiking in the Chay neuron and their validation in a digital circuit. <i>Chaos, Solitons and Fractals</i> , <b>2020</b> , 141, 110353	9.3	16
70	FPGA-based Experimental Validations of Electrical Activities in Two Adjacent FitzHugh-Nagumo Neurons Coupled by Memristive Electromagnetic Induction. <i>IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)</i> , <b>2020</b> , 1-15	1.5	4
69	Global multistability and analog circuit implementation of an adapting synapse-based neuron model. <i>Nonlinear Dynamics</i> , <b>2020</b> , 101, 1105-1118	5	21
68	Symmetrically scaled coexisting behaviors in two types of simple jerk circuits. <i>Circuit World</i> , <b>2020</b> , 47, 61-70	0.7	2
67	Reconstitution for interpreting hidden dynamics with stable equilibrium point. <i>Chaos, Solitons and Fractals</i> , <b>2020</b> , 140, 110188	9.3	7
66	An Innovative Near-Field Communication Security Based on the Chaos Generated by Memristive Circuits Adopted as Symmetrical Key. <i>IEEE Access</i> , <b>2020</b> , 8, 167975-167984	3.5	4
65	Synchronous Behavior for Memristive Synapse-Connected Chay Twin-Neuron Network and Hardware Implementation. <i>Mathematical Problems in Engineering</i> , <b>2020</b> , 2020, 1-12	1.1	1
64	Parallel-Type Asymmetric Memristive Diode-Bridge Emulator and Its Induced Asymmetric Attractor. <i>IEEE Access</i> , <b>2020</b> , 8, 156299-156307	3.5	2
63	Riddled Attraction Basin and Multistability in Three-Element-Based Memristive Circuit. <i>Complexity</i> , <b>2020</b> , 2020, 1-13	1.6	4
62	Asymmetric memristive Chua's chaotic circuits. <i>International Journal of Electronics</i> , <b>2020</b> , 1-18	1.2	11
61	CCII and FPGA Realization: A Multistable Modified Fourth-Order Autonomous Chua's Chaotic System with Coexisting Multiple Attractors. <i>Complexity</i> , <b>2020</b> , 2020, 1-17	1.6	27
60	Non-ideal memristor synapse-coupled bi-neuron Hopfield neural network: Numerical simulations and breadboard experiments. <i>AEU - International Journal of Electronics and Communications</i> , <b>2019</b> , 111, 152894	2.8	37

59	Chaotic Bursting Dynamics and Coexisting Multistable Firing Patterns in 3D Autonomous MorrisLecar Model and Microcontroller-Based Validations. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2019</b> , 29, 1950134	2	34
58	Dynamical Effects of Neuron Activation Gradient on Hopfield Neural Network: Numerical Analyses and Hardware Experiments. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2019</b> , 29, 1930010	2	27
57	Memristor initial boosting behaviors in a two-memristor-based hyperchaotic system. <i>Chaos, Solitons and Fractals</i> , <b>2019</b> , 121, 178-185	9.3	60
56	Hybrid State Variable Incremental Integral for Reconstructing Extreme Multistability in Memristive Jerk System with Cubic Nonlinearity. <i>Complexity</i> , <b>2019</b> , 2019, 1-16	1.6	18
55	Extremely slow passages in low-pass filter-based memristive oscillator. <i>Nonlinear Dynamics</i> , <b>2019</b> , 97, 2339-2353	5	19
54	Quasi-period, periodic bursting and bifurcations in memristor-based FitzHugh-Nagumo circuit. <i>AEU - International Journal of Electronics and Communications</i> , <b>2019</b> , 110, 152840	2.8	22
53	Periodically Switched Memristor Initial Boosting Behaviors in Memristive Hypogenetic Jerk System. <i>IEEE Access</i> , <b>2019</b> , 7, 145022-145029	3.5	18
52	Inductor-free multi-stable Chua's circuit constructed by improved PI-type memristor emulator and active Sallen-Key high-pass filter. <i>European Physical Journal: Special Topics</i> , <b>2019</b> , 228, 1983-1994	2.3	2
51	Periodically varied initial offset boosting behaviors in a memristive system with cosine memductance. <i>Frontiers of Information Technology and Electronic Engineering</i> , <b>2019</b> , 20, 1706-1716	2.2	24
50	A Simple Nonautonomous Hidden Chaotic System with a Switchable Stable Node-Focus. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2019</b> , 29, 1950168	2	14
49	A Survey on True Random Number Generators Based on Chaos. <i>Discrete Dynamics in Nature and Society</i> , <b>2019</b> , 2019, 1-10	1.1	28
48	Abundant Coexisting Multiple Attractors Behaviors in Three-Dimensional Sine Chaotic System. <i>Complexity</i> , <b>2019</b> , 2019, 1-11	1.6	4
47	AC-induced coexisting asymmetric bursters in the improved Hindmarsh-Rose model. <i>Nonlinear Dynamics</i> , <b>2018</b> , 92, 1695-1706	5	45
46	Chaos in a second-order non-autonomous Wien-bridge oscillator without extra nonlinearity. <i>Circuit World</i> , <b>2018</b> , 44, 108-114	0.7	20
45	Third-order RLCM-four-elements-based chaotic circuit and its coexisting bubbles. <i>AEU - International Journal of Electronics and Communications</i> , <b>2018</b> , 94, 26-35	2.8	45
44	Three-Dimensional Memristive Hindmarsh-Rose Neuron Model with Hidden Coexisting Asymmetric Behaviors. <i>Complexity</i> , <b>2018</b> , 2018, 1-11	1.6	61
43	Crisis-induced coexisting multiple attractors in a second-order nonautonomous memristive diode bridge-based circuit. <i>International Journal of Circuit Theory and Applications</i> , <b>2018</b> , 46, 1917-1927	2	27
42	Numerical and experimental confirmations of quasi-periodic behavior and chaotic bursting in third-order autonomous memristive oscillator. <i>Chaos, Solitons and Fractals</i> , <b>2018</b> , 106, 161-170	9.3	53

41	Controlling extreme multistability of memristor emulator-based dynamical circuit in flux-charge domain. <i>Nonlinear Dynamics</i> , <b>2018</b> , 91, 1395-1412	5	89
40	Initial conditions-related dynamical behaviors in PI-type memristor emulator-based canonical Chua's circuit. <i>Circuit World</i> , <b>2018</b> , 44, 178-186	0.7	10
39	Flux-Charge Analysis of Initial State-Dependent Dynamical Behaviors of a Memristor Emulator-Based Chua's Circuit. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2018</b> , 28, 1850120	2	25
38	State variable mapping method for studying initial-dependent dynamics in memristive hyper-jerk system with line equilibrium. <i>Chaos, Solitons and Fractals</i> , <b>2018</b> , 115, 313-324	9.3	32
37	Numerical analyses and breadboard experiments of twin attractors in two-neuron-based non-autonomous Hopfield neural network. <i>European Physical Journal: Special Topics</i> , <b>2018</b> , 227, 777-786 <sup>2-3</sup>		13
36	Two-neuron-based non-autonomous memristive Hopfield neural network: Numerical analyses and hardware experiments. <i>AEU - International Journal of Electronics and Communications</i> , <b>2018</b> , 96, 66-74	2.8	43
35	Memristor-Based Canonical Chua's Circuit: Extreme Multistability in Voltage-Current Domain and Its Controllability in Flux-Charge Domain. <i>Complexity</i> , <b>2018</b> , 2018, 1-13	1.6	29
34	Emerging multi-double-scroll attractor from variable-boostable chaotic system excited by multi-level pulse. <i>Journal of Engineering</i> , <b>2018</b> , 2018, 42-44	0.7	7
33	Hidden extreme multistability in memristive hyperchaotic system. <i>Chaos, Solitons and Fractals</i> , <b>2017</b> , 94, 102-111	9.3	260
32	A Simple Third-Order Memristive Band Pass Filter Chaotic Circuit. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2017</b> , 64, 977-981	3.5	60
31	Chaotic bursting in memristive diode bridge-coupled Sallen-Key lowpass filter. <i>Electronics Letters</i> , <b>2017</b> , 53, 1104-1105	1.1	39
30	Numerical analyses and experimental validations of coexisting multiple attractors in Hopfield neural network. <i>Nonlinear Dynamics</i> , <b>2017</b> , 90, 2359-2369	5	69
29	Non-Autonomous Second-Order Memristive Chaotic Circuit. <i>IEEE Access</i> , <b>2017</b> , 5, 21039-21045	3.5	44
28	Multistability induced by two symmetric stable node-foci in modified canonical Chua's circuit. <i>Nonlinear Dynamics</i> , <b>2017</b> , 87, 789-802	5	70
27	Coexisting Behaviors of Asymmetric Attractors in Hyperbolic-Type Memristor based Hopfield Neural Network. <i>Frontiers in Computational Neuroscience</i> , <b>2017</b> , 11, 81	3.5	89
26	Parameter-Independent Dynamical Behaviors in Memristor-Based Wien-Bridge Oscillator. <i>Mathematical Problems in Engineering</i> , <b>2017</b> , 2017, 1-13	1.1	4
25	An Improved Memristive Diode Bridge-Based Band Pass Filter Chaotic Circuit. <i>Mathematical Problems in Engineering</i> , <b>2017</b> , 2017, 1-11	1.1	10
24	Chaotic and periodic bursting phenomena in a memristive Wien-bridge oscillator. <i>Nonlinear Dynamics</i> , <b>2016</b> , 83, 893-903	5	114

23	Extreme multistability in a memristive circuit. <i>Electronics Letters</i> , <b>2016</b> , 52, 1008-1010	1.1	168
22	Multiple attractors in a non-ideal active voltage-controlled memristor based Chua's circuit. <i>Chaos, Solitons and Fractals</i> , <b>2016</b> , 83, 186-200	9.3	182
21	Hidden attractors in a practical Chua's circuit based on a modified Chua's diode. <i>Electronics Letters</i> , <b>2016</b> , 52, 23-25	1.1	20
20	Inductor-free simplified Chua's circuit only using two-op-amp-based realization. <i>Nonlinear Dynamics</i> , <b>2016</b> , 84, 511-525	5	33
19	A FEASIBLE MEMRISTIVE CHUA'S CIRCUIT VIA BRIDGING A GENERALIZED MEMRISTOR. <i>Journal of Applied Analysis and Computation</i> , <b>2016</b> , 6, 1152-1163	0.4	5
18	Multistability in Chua's circuit with two stable node-foci. <i>Chaos</i> , <b>2016</b> , 26, 043111	3.3	122
17	Coexisting infinitely many attractors in active band-pass filter-based memristive circuit. <i>Nonlinear Dynamics</i> , <b>2016</b> , 86, 1711-1723	5	168
16	Dynamics of self-excited attractors and hidden attractors in generalized memristor-based Chua's circuit. <i>Nonlinear Dynamics</i> , <b>2015</b> , 81, 215-226	5	130
15	Photonic band gaps of two-dimensional square-lattice photonic crystals based on 8-shaped scatters. <i>Optik</i> , <b>2015</b> , 126, 2287-2290	2.5	2
14	Colpitts Chaotic Oscillator Coupling with a Generalized Memristor. <i>Mathematical Problems in Engineering</i> , <b>2015</b> , 2015, 1-9	1.1	6
13	Self-Excited and Hidden Attractors Found Simultaneously in a Modified Chua's Circuit. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2015</b> , 25, 1550075	2	45
12	Inductorless chaotic circuit based on active generalized memristors. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2015</b> , 64, 170503	0.6	4
11	Trapped photons at a Dirac point: a new horizon for photonic crystals. <i>Laser and Photonics Reviews</i> , <b>2014</b> , 8, 583-589	8.3	20
10	The properties of two-dimensional photonic crystals bandgap structure with rhombus lattice. <i>Optik</i> , <b>2014</b> , 125, 104-106	2.5	2
9	Wien-bridge chaotic oscillator based on first-order generalized memristor. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2014</b> , 63, 240505	0.6	11
8	Optical peculiarities in quasi-sandwiching periodic one-dimensional photonic crystals. <i>Optik</i> , <b>2010</b> , 121, 1268-1273	2.5	
7	Optimize design super collimation in square lattice two-dimensional photonic crystals. <i>Optik</i> , <b>2010</b> , 121, 1573-1576	2.5	1
6	New type optical Cassegrain antenna with lenses telescope system. <i>Optik</i> , <b>2010</b> , 121, 521-525	2.5	3

5	Periodic defect modes of one-dimensional crystals containing single-negative materials. <i>Optik</i> , <b>2010</b> , 121, 1558-1562	2.5	4
4	Analysis of space off-axis and performance of Cassegrain optical antenna system. <i>Optik</i> , <b>2010</b> , 121, 1688-1692	2.5	4
3	Electromagnetic induction effects on electrical activity within a memristive Wilson neuron model. <i>Cognitive Neurodynamics</i> ,1	4.2	11
2	Continuous non-autonomous memristive Rulkov model with extreme multistability. <i>Chinese Physics B</i> ,	1.2	10
1	Multistability and coexisting attractors in a non-autonomous memristive Jerk circuit: numerical simulations and hardware measurements. <i>European Physical Journal: Special Topics</i> ,1	2.3	0