Zhen Wang

List of Publications by Year
in descending order

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72 papers	1,384 citations	361296 20 h-index	360920 35 g-index
72 all docs	72 docs citations	72 times ranked	846 citing authors

#	Article	IF	Citations
1	Complex behavior of COVID-19â€™s mathematical model. European Physical Journal: Special Topics, 2022, 231, 885-891.	1.2	4
2	Chimera states in a network of identical oscillators with symmetric coexisting attractors. European Physical Journal: Special Topics, 2022, 231, 2163-2171.	1.2	4
3	Dynamical analysis and fixed-time synchronization of a chaotic system with hidden attractor and a line equilibrium. European Physical Journal: Special Topics, 2022, 231, 2455-2466.	1.2	12
4	Symplectic Dynamics and Simultaneous Resonance Analysis of Memristor Circuit Based on Its van der Pol Oscillator. Symmetry, 2022, 14, 1251.	1.1	4
5	Resonance analysis of a single-walled carbon nanotube. Chaos, Solitons and Fractals, 2021, 142, 110498.	2.5	2
6	Simulation and experimental validation of a non-equilibrium chaotic system. Chaos, Solitons and Fractals, 2021, 143, 110539.	2.5	52
7	Chimeras. Physics Reports, 2021, 898, 1-114.	10.3	172
8	Dynamic Analysis and Robust Control of a Chaotic System with Hidden Attractor. Complexity, 2021, 2021, 1-11.	0.9	20
9	Predefined-time sliding mode formation control for multiple autonomous underwater vehicles with uncertainties. Chaos, Solitons and Fractals, 2021, 144, 110680.	2.5	25
10	Robust Synchronization of Class Chaotic Systems Using Novel Time-Varying Gain Disturbance Observer-Based Sliding Mode Control. Complexity, 2021, 2021, 1-14.	0.9	1
11	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
12	Dynamic Analysis and Degenerate Hopf Bifurcation-Based Feedback Control of a Conservative Chaotic System and Its Circuit Simulation. Complexity, 2021, 2021, 1-15.	0.9	2
13	Chaos of a Single-Walled Carbon Nanotube Resulting from Periodic Parameter Perturbation. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2150130.	0.7	2
14	A novel memristive chaotic system without any equilibrium point. The Integration VLSI Journal, 2021, 79, 133-142.	1.3	11
15	Dynamical Analysis and Periodic Solution of a Chaotic System with Coexisting Attractors. Complexity, 2021, 2021, 1-15.	0.9	0
16	Dynamic analysis of synaptic loss and synaptic compensation in the process of associative memory ability decline in Alzheimerâ€™s disease. Applied Mathematics and Computation, 2021, 408, 126372.	1.4	3
17	Plant species identification based on modified local discriminant projection. Neural Computing and Applications, 2020, 32, 16329-16336.	3.2	2
18	Symmetry breaking of infinite-dimensional dynamic system. Applied Mathematics Letters, 2020, 103, 106207.	1.5	95

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19	A new megastable chaotic oscillator with singularity. European Physical Journal: Special Topics, 2020, 229, 2341-2348.	1.2	4
20	Local dynamic behaviors of long 0-Ï€ Josephson junction. Physica Scripta, 2020, 95, 085221.	1.2	4
21	Is There a Relation Between Synchronization Stability and Bifurcation Type?. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050123.	0.7	6
22	Synchronization of chaotic jerk systems. International Journal of Modern Physics B, 2020, 34, 2050189.	1.0	0
23	Multifarious Chaotic Attractors and Its Control in Rigid Body Attitude Dynamical System. Mathematical Problems in Engineering, 2020, 2020, 1-11.	0.6	1
24	The Dynamics and Control of the Fractional Forms of Some Rational Chaotic Maps. Journal of Systems Science and Complexity, 2020, 33, 584-603.	1.6	6
25	Chaotic flows with special equilibria. European Physical Journal: Special Topics, 2020, 229, 905-919.	1.2	33
26	Infinity dynamics and DDF control for a chaotic system with one stable equilibrium. European Physical Journal: Special Topics, 2020, 229, 1319-1333.	1.2	5
27	Delay-induced synchronization in two coupled chaotic memristive Hopfield neural networks. Chaos, Solitons and Fractals, 2020, 134, 109702.	2.5	38
28	Chimeras in an adaptive neuronal network with burst-timing-dependent plasticity. Neurocomputing, 2020, 406, 117-126.	3.5	31
29	A chaotic map with infinite number of equilibria in a bounded domain. European Physical Journal: Special Topics, 2020, 229, 1109-1116.	1.2	6
30	Optimum topology and coupling strength for synchronization. Applied Mathematics and Computation, 2020, 379, 125226.	1.4	3
31	Cucumber Disease Recognition Based on Depthwise Separable Convolution. Lecture Notes in Computer Science, 2020, , 223-230.	1.0	0
32	Weed Recognition in Wheat Field Based on Sparse Representation Classification. Lecture Notes in Computer Science, 2019, , 511-519.	1.0	1
33	Segmenting Crop Disease Leaf Image by Modified Fully-Convolutional Networks. Lecture Notes in Computer Science, 2019, , 646-652.	1.0	9
34	Synchronization in a multilayer neuronal network: effect of time delays. European Physical Journal: Special Topics, 2019, 228, 2391-2403.	1.2	4
35	Suppression of spiral wave turbulence by means of periodic plane waves in two-layer excitable media. Chaos, Solitons and Fractals, 2019, 128, 229-233.	2.5	29
36	Combing K-means Clustering and Local Weighted Maximum Discriminant Projections for Weed Species Recognition. Frontiers in Computer Science, 2019, 1, .	1.7	12

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37	A novel method based on the pseudo-orbits to calculate the largest Lyapunov exponent from chaotic equations. Chaos, 2019, 29, 033125.	1.0	32
38	A New Megastable Oscillator with Rational and Irrational Parameters. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1950176.	0.7	14
39	Combining sparse representation and singular value decomposition for plant recognition. Applied Soft Computing Journal, 2018, 67, 164-171.	4.1	28
40	A new oscillator with infinite coexisting asymmetric attractors. Chaos, Solitons and Fractals, 2018, 110, 252-258.	2.5	41
41	Dynamics at infinity and a Hopf bifurcation arising in a quadratic system with coexisting attractors. Pramana - Journal of Physics, 2018, 90, 1.	0.9	15
42	Multi-modal Plant Leaf Recognition Based on Centroid-Contour Distance and Local Discriminant Canonical Correlation Analysis. Lecture Notes in Computer Science, 2018, , 61-66.	1.0	2
43	Plant Recognition Based on Modified Maximum Margin Criterion. Lecture Notes in Computer Science, 2018, , 520-525.	1.0	0
44	Chaos-based application of a novel no-equilibrium chaotic system with coexisting attractors. Nonlinear Dynamics, 2017, 89, 1877-1887.	2.7	59
45	Detecting Hidden Chaotic Regions and Complex Dynamics in the Self-Exciting Homopolar Disc Dynamo. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1730008.	0.7	79
46	Four-wing attractors in a novel chaotic system with hyperbolic sine nonlinearity. Optik, 2017, 131, 1071-1078.	1.4	78
47	A New Chaotic Attractor Around a Pre-Located Ring. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750152.	0.7	12
48	Fractional control and generalized synchronization for a nonlinear electromechanical chaotic system and its circuit simulation with Multisim. Turkish Journal of Electrical Engineering and Computer Sciences, 2016, 24, 1502-1515.	0.9	8
49	Bifurcation analysis and circuit realization for multiple-delayed Wangâ€“Chen system with hidden chaotic attractors. Nonlinear Dynamics, 2016, 85, 1635-1650.	2.7	76
50	Dynamics at Infinity, Degenerate Hopf and Zero-Hopf Bifurcation for Kingniâ€“Jafari System with Hidden Attractors. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650125.	0.7	45
51	Cucumber disease recognition based on Global-Local Singular value decomposition. Neurocomputing, 2016, 205, 341-348.	3.5	53
52	Dynamics and delayed feedback control for a 3D jerk system with hidden attractor. Nonlinear Dynamics, 2015, 82, 577-588.	2.7	37
53	Hidden Attractors and Dynamical Behaviors in an Extended Rikitake System. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550028.	0.7	90
54	Modified Marginal Fisher Analysis for Gait Image Dimensionality Reduction and Classification. Lecture Notes in Computer Science, 2015, , 448-455.	1.0	0

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55	Dynamics of a 3D autonomous quadratic system with an invariant algebraic surface. Nonlinear Dynamics, 2014, 77, 1503-1518.	2.7	5
56	A comparison of major issues for the development of forensics in cloud computing. , 2013, , .		4
57	Dynamics analysis and synchronization of T chaotic system with its circuit simulation. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 020511.	0.2	4
58	Homoclinic orbits analysis of T chaotic system with periodic parametric perturbation. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 130507.	0.2	2
59	Existence of positive periodic solution of n-dimensional Lotkaâ€“Volterra system with delays. Applied Mathematics and Computation, 2011, 218, 1934-1940.	1.4	1
60	Existence of attractor and control of a 3D differential system. Nonlinear Dynamics, 2010, 60, 369-373.	2.7	23
61	Adaptive backstepping control of a nonlinear electromechanical system with unknown parameters. , 2009, , .		7
62	Multi-splitting Waveform Relaxation Methods for Determining Periodic Solutions of Linear Differential-Algebraic Equations. , 2008, , .		3
63	Bifurcation analysis and feedback control of a 3D chaotic system. Analysis in Theory and Applications, 2007, 23, 343-353.	0.1	6
64	Dynamical Analysis and Chaos Control of a Driven System with One Cubic Nonlinearity: Numerical and Experimental Investigations. Advanced Materials Research, 0, 486, 204-210.	0.3	1
65	Computional Dynamics for Diffusionless Lorenz Equations with Periodic Parametric Perturbation. Advanced Materials Research, 0, 905, 651-654.	0.3	1
66	Dynamics analysis and robust modified function projective synchronization of Sprott E system with quadratic perturbation. Kybernetika, 0, , 616-631.	0.0	1
67	Internet of Things Application to Monitoring Plant Disease and Insect Pests. , 0, , .		28
68	Periodic parametric perturbation control for a 3D autonomous chaotic system and its dynamics at infinity. Kybernetika, 0, , 354-369.	0.0	1
69	Robust active vibration suppression of single-walled carbon nanotube using adaptive sliding-mode control and electrostatic actuators. JVC/Journal of Vibration and Control, 0, , 107754632110630.	1.5	1
70	A symmetric oscillator with multi-stability and chaotic dynamics: bifurcations, circuit implementation, and impulsive control. European Physical Journal: Special Topics, 0, , 1.	1.2	4
71	The effects of extreme multistability on the collective dynamics of coupled memristive neurons. European Physical Journal: Special Topics, 0, , .	1.2	16
72	Discrete fracmemristor model with the window function and its application in Logistic map. European Physical Journal: Special Topics, 0, , 1.	1.2	1