

Zhen Wang

List of Publications by Year in descending order

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Version: 2024-02-01

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	Chimeras. Physics Reports, 2021, 898, 1-114.	10.3	172
2	Symmetry breaking of infinite-dimensional dynamic system. Applied Mathematics Letters, 2020, 103, 106207.	1.5	95
3	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
4	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
5	Four-wing attractors in a novel chaotic system with hyperbolic sine nonlinearity. Optik, 2017, 131, 1071-1078.	1.4	78
6	Bifurcation analysis and circuit realization for multiple-delayed Wang-Chen system with hidden chaotic attractors. Nonlinear Dynamics, 2016, 85, 1635-1650.	2.7	76
7	Chaos-based application of a novel no-equilibrium chaotic system with coexisting attractors. Nonlinear Dynamics, 2017, 89, 1877-1887.	2.7	59
8	Cucumber disease recognition based on Global-Local Singular value decomposition. Neurocomputing, 2016, 205, 341-348.	3.5	53
9	Simulation and experimental validation of a non-equilibrium chaotic system. Chaos, Solitons and Fractals, 2021, 143, 110539.	2.5	52
10	Dynamics at Infinity, Degenerate Hopf and Zero-Hopf Bifurcation for Kingni-Jafari System with Hidden Attractors. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650125.	0.7	45
11	A new oscillator with infinite coexisting asymmetric attractors. Chaos, Solitons and Fractals, 2018, 110, 252-258.	2.5	41
12	Delay-induced synchronization in two coupled chaotic memristive Hopfield neural networks. Chaos, Solitons and Fractals, 2020, 134, 109702.	2.5	38
13	Dynamics and delayed feedback control for a 3D jerk system with hidden attractor. Nonlinear Dynamics, 2015, 82, 577-588.	2.7	37
14	Chaotic flows with special equilibria. European Physical Journal: Special Topics, 2020, 229, 905-919.	1.2	33
15	A novel method based on the pseudo-orbits to calculate the largest Lyapunov exponent from chaotic equations. Chaos, 2019, 29, 033125.	1.0	32
16	Chimeras in an adaptive neuronal network with burst-timing-dependent plasticity. Neurocomputing, 2020, 406, 117-126.	3.5	31
17	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
18	Combining sparse representation and singular value decomposition for plant recognition. Applied Soft Computing Journal, 2018, 67, 164-171.	4.1	28

#	ARTICLE	IF	CITATIONS
19	Internet of Things Application to Monitoring Plant Disease and Insect Pests. , 0, , .		28
20	Predefined-time sliding mode formation control for multiple autonomous underwater vehicles with uncertainties. Chaos, Solitons and Fractals, 2021, 144, 110680.	2.5	25
21	Existence of attractor and control of a 3D differential system. Nonlinear Dynamics, 2010, 60, 369-373.	2.7	23
22	Dynamic Analysis and Robust Control of a Chaotic System with Hidden Attractor. Complexity, 2021, 2021, 1-11.	0.9	20
23	The effects of extreme multistability on the collective dynamics of coupled memristive neurons. European Physical Journal: Special Topics, 0, , .	1.2	16
24	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
25	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
26	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
27	Combing K-means Clustering and Local Weighted Maximum Discriminant Projections for Weed Species Recognition. Frontiers in Computer Science, 2019, 1, .	1.7	12
28	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
29	A novel memristive chaotic system without any equilibrium point. The Integration VLSI Journal, 2021, 79, 133-142.	1.3	11
30	Segmenting Crop Disease Leaf Image by Modified Fully-Convolutional Networks. Lecture Notes in Computer Science, 2019, , 646-652.	1.0	9
31	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
32	Adaptive backstepping control of a nonlinear electromechanical system with unknown parameters. , 2009, , .		7
33	Bifurcation analysis and feedback control of a 3D chaotic system. Analysis in Theory and Applications, 2007, 23, 343-353.	0.1	6
34	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
35	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
36	A chaotic map with infinite number of equilibria in a bounded domain. European Physical Journal: Special Topics, 2020, 229, 1109-1116.	1.2	6

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37	Dynamics of a 3D autonomous quadratic system with an invariant algebraic surface. <i>Nonlinear Dynamics</i> , 2014, 77, 1503-1518.	2.7	5
38	Infinity dynamics and DDF control for a chaotic system with one stable equilibrium. <i>European Physical Journal: Special Topics</i> , 2020, 229, 1319-1333.	1.2	5
39	A comparison of major issues for the development of forensics in cloud computing. , 2013, , .		4
40	Synchronization in a multilayer neuronal network: effect of time delays. <i>European Physical Journal: Special Topics</i> , 2019, 228, 2391-2403.	1.2	4
41	A new megastable chaotic oscillator with singularity. <i>European Physical Journal: Special Topics</i> , 2020, 229, 2341-2348.	1.2	4
42	Local dynamic behaviors of long $0\text{-}\pi$ Josephson junction. <i>Physica Scripta</i> , 2020, 95, 085221.	1.2	4
43	Dynamics analysis and synchronization of T chaotic system with its circuit simulation. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2013, 62, 020511.	0.2	4
44	Complex behavior of COVID-19's mathematical model. <i>European Physical Journal: Special Topics</i> , 2022, 231, 885-891.	1.2	4
45	Chimera states in a network of identical oscillators with symmetric coexisting attractors. <i>European Physical Journal: Special Topics</i> , 2022, 231, 2163-2171.	1.2	4
46	A symmetric oscillator with multi-stability and chaotic dynamics: bifurcations, circuit implementation, and impulsive control. <i>European Physical Journal: Special Topics</i> , 0, , 1.	1.2	4
47	Symplectic Dynamics and Simultaneous Resonance Analysis of Memristor Circuit Based on Its van der Pol Oscillator. <i>Symmetry</i> , 2022, 14, 1251.	1.1	4
48	Multi-splitting Waveform Relaxation Methods for Determining Periodic Solutions of Linear Differential-Algebraic Equations. , 2008, , .		3
49	Optimum topology and coupling strength for synchronization. <i>Applied Mathematics and Computation</i> , 2020, 379, 125226.	1.4	3
50	A New Memristive Chaotic System with a Plane and Two Lines of Equilibria. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2021, 31, 2150066.	0.7	3
51	Dynamic analysis of synaptic loss and synaptic compensation in the process of associative memory ability decline in Alzheimer's disease. <i>Applied Mathematics and Computation</i> , 2021, 408, 126372.	1.4	3
52	Plant species identification based on modified local discriminant projection. <i>Neural Computing and Applications</i> , 2020, 32, 16329-16336.	3.2	2
53	Resonance analysis of a single-walled carbon nanotube. <i>Chaos, Solitons and Fractals</i> , 2021, 142, 110498.	2.5	2
54	Dynamic Analysis and Degenerate Hopf Bifurcation-Based Feedback Control of a Conservative Chaotic System and Its Circuit Simulation. <i>Complexity</i> , 2021, 2021, 1-15.	0.9	2

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55	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
56	Homoclinic orbits analysis of T chaotic system with periodic parametric perturbation. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 130507.	0.2	2
57	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
58	Existence of positive periodic solution of n-dimensional Lotka-Volterra system with delays. Applied Mathematics and Computation, 2011, 218, 1934-1940.	1.4	1
59	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
60	Computational Dynamics for Diffusionless Lorenz Equations with Periodic Parametric Perturbation. Advanced Materials Research, 0, 905, 651-654.	0.3	1
61	Weed Recognition in Wheat Field Based on Sparse Representation Classification. Lecture Notes in Computer Science, 2019, , 511-519.	1.0	1
62	Multifarious Chaotic Attractors and Its Control in Rigid Body Attitude Dynamical System. Mathematical Problems in Engineering, 2020, 2020, 1-11.	0.6	1
63	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
64	Dynamics analysis and robust modified function projective synchronization of Sprott E system with quadratic perturbation. Kybernetika, 0, , 616-631.	0.0	1
65	Periodic parametric perturbation control for a 3D autonomous chaotic system and its dynamics at infinity. Kybernetika, 0, , 354-369.	0.0	1
66	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
67	Discrete fracmemristor model with the window function and its application in Logistic map. European Physical Journal: Special Topics, 0, , 1.	1.2	1
68	Synchronization of chaotic jerk systems. International Journal of Modern Physics B, 2020, 34, 2050189.	1.0	0
69	Dynamical Analysis and Periodic Solution of a Chaotic System with Coexisting Attractors. Complexity, 2021, 2021, 1-15.	0.9	0
70	Modified Marginal Fisher Analysis for Gait Image Dimensionality Reduction and Classification. Lecture Notes in Computer Science, 2015, , 448-455.	1.0	0
71	Plant Recognition Based on Modified Maximum Margin Criterion. Lecture Notes in Computer Science, 2018, , 520-525.	1.0	0
72	Cucumber Disease Recognition Based on Depthwise Separable Convolution. Lecture Notes in Computer Science, 2020, , 223-230.	1.0	0