

Zhouchao Wei

List of Publications by Year in descending order

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98
papers

3,542
citations

159358

30
h-index

138251

58
g-index

98
all docs

98
docs citations

98
times ranked

1101
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamical behaviors of a chaotic system with no equilibria. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 376, 102-108.	0.9	344
2	A new finding of the existence of hidden hyperchaotic attractors with no equilibria. Mathematics and Computers in Simulation, 2014, 100, 13-23.	2.4	169
3	Constructing a Novel No-Equilibrium Chaotic System. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1450073.	0.7	167
4	Hidden hyperchaos and electronic circuit application in a 5D self-exciting homopolar disc dynamo. Chaos, 2017, 27, 033101.	1.0	147
5	Hidden Hyperchaotic Attractors in a Modified Lorenz System with Only One Stable Equilibrium. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1450127.	0.7	138
6	AN UNUSUAL 3D AUTONOMOUS QUADRATIC CHAOTIC SYSTEM WITH TWO STABLE NODE-FOCI. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 1061-1083.	0.7	135
7	A fractional-order hyper-chaotic economic system with transient chaos. Chaos, Solitons and Fractals, 2020, 130, 109400.	2.5	134
8	A financial hyperchaotic system with coexisting attractors: Dynamic investigation, entropy analysis, control and synchronization. Chaos, Solitons and Fractals, 2019, 126, 66-77.	2.5	124
9	Study of hidden attractors, multiple limit cycles from Hopf bifurcation and boundedness of motion in the generalized hyperchaotic Rabinovich system. Nonlinear Dynamics, 2015, 82, 131-141.	2.7	120
10	A new multi-stable fractional-order four-dimensional system with self-excited and hidden chaotic attractors: Dynamic analysis and adaptive synchronization using a novel fuzzy adaptive sliding mode control method. Applied Soft Computing Journal, 2020, 87, 105943.	4.1	120
11	Dynamical analysis of a new autonomous 3-D chaotic system only with stable equilibria. Nonlinear Analysis: Real World Applications, 2011, 12, 106-118.	0.9	113
12	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
13	Elementary quadratic chaotic flows with a single non-hyperbolic equilibrium. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2184-2187.	0.9	79
14	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
15	Dynamical analysis of the generalized Sprott C system with only two stable equilibria. Nonlinear Dynamics, 2012, 68, 543-554.	2.7	77
16	Anti-control of Hopf bifurcation in the new chaotic system with two stable node-foci. Applied Mathematics and Computation, 2010, 217, 422-429.	1.4	76
17	Bifurcation analysis and circuit realization for multiple-delayed Wang-Chen system with hidden chaotic attractors. Nonlinear Dynamics, 2016, 85, 1635-1650.	2.7	76
18	Hidden chaotic attractors in a class of two-dimensional maps. Nonlinear Dynamics, 2016, 85, 2719-2727.	2.7	75

#	ARTICLE	IF	CITATIONS
19	On the periodic orbit bifurcating from one single non-hyperbolic equilibrium in a chaotic jerk system. <i>Nonlinear Dynamics</i> , 2015, 82, 1251-1258.	2.7	73
20	A Modified Multistable Chaotic Oscillator. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2018, 28, 1850085.	0.7	66
21	Nonstationary chimeras in a neuronal network. <i>Europhysics Letters</i> , 2018, 123, 48003.	0.7	61
22	Bifurcation analysis of two disc dynamos with viscous friction and multiple time delays. <i>Applied Mathematics and Computation</i> , 2019, 347, 265-281.	1.4	55
23	Degenerate Hopf bifurcations, hidden attractors, and control in the extended Sprott E system with only one stable equilibrium. <i>Turkish Journal of Mathematics</i> , 2014, 38, 672-687.	0.3	54
24	Dynamics at Infinity, Degenerate Hopf and Zero-Hopf Bifurcation for Kingniâ€™Jafari System with Hidden Attractors. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2016, 26, 1650125.	0.7	45
25	A New Class of Three-Dimensional Maps with Hidden Chaotic Dynamics. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2016, 26, 1650206.	0.7	42
26	A lattice Boltzmann modelling of electrohydrodynamic conduction phenomenon in dielectric liquids. <i>Applied Mathematical Modelling</i> , 2021, 95, 361-378.	2.2	41
27	Dynamics and delayed feedback control for a 3D jerk system with hidden attractor. <i>Nonlinear Dynamics</i> , 2015, 82, 577-588.	2.7	37
28	Complex Dynamical Behaviors in a 3D Simple Chaotic Flow with 3D Stable or 3D Unstable Manifolds of a Single Equilibrium. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2019, 29, 1950095.	0.7	37
29	Epidemic dynamics of influenza-like diseases spreading in complex networks. <i>Nonlinear Dynamics</i> , 2020, 101, 1801-1820.	2.7	35
30	Chaotic flows with special equilibria. <i>European Physical Journal: Special Topics</i> , 2020, 229, 905-919.	1.2	33
31	A New Class of Two-Dimensional Chaotic Maps with Closed Curve Fixed Points. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2019, 29, 1950094.	0.7	32
32	Delayed feedback on the 3-D chaotic system only with two stable node-foci. <i>Computers and Mathematics With Applications</i> , 2012, 63, 728-738.	1.4	29
33	Delayed feedback control and bifurcation analysis of the generalized Sprott B system with hidden attractors. <i>European Physical Journal: Special Topics</i> , 2015, 224, 1619-1636.	1.2	28
34	Hopf bifurcation and synchronization of a five-dimensional self-exciting homopolar disc dynamo using a new fuzzy disturbance-observer-based terminal sliding mode control. <i>Journal of the Franklin Institute</i> , 2021, 358, 814-833.	1.9	27
35	Control, electronic circuit application and fractional-order analysis of hidden chaotic attractors in the self-exciting homopolar disc dynamo. <i>Chaos, Solitons and Fractals</i> , 2018, 111, 157-168.	2.5	26
36	Spatio-temporal numerical modeling of reaction-diffusion measles epidemic system. <i>Chaos</i> , 2019, 29, 103101.	1.0	26

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37	Bogdanovâ€™Takens singularity in the Hindmarshâ€™Rose neuron with time delay. <i>Applied Mathematics and Computation</i> , 2019, 354, 180-188.	1.4	25
38	Switched generalized function projective synchronization of two hyperchaotic systems with hidden attractors. <i>European Physical Journal: Special Topics</i> , 2015, 224, 1593-1604.	1.2	23
39	Circuit implementation of 3D chaotic self-exciting single-disk homopolar dynamo and its application in digital image confidentiality. <i>Wireless Networks</i> , 2020, , 1.	2.0	23
40	A Tribute to J. C. Sprott. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2017, 27, 1750221.	0.7	22
41	Hopf Bifurcation, Positively Invariant Set, and Physical Realization of a New Four-Dimensional Hyperchaotic Financial System. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-13.	0.6	21
42	On the dynamical investigation and synchronization of variable-order fractional neural networks: the Hopfield-like neural network model. <i>European Physical Journal: Special Topics</i> , 2022, 231, 1757-1769.	1.2	21
43	Synchronisation, electronic circuit implementation, and fractional-order analysis of 5D ordinary differential equations with hidden hyperchaotic attractors. <i>Pramana - Journal of Physics</i> , 2018, 90, 1.	0.9	19
44	A Simple Chaotic System With Topologically Different Attractors. <i>IEEE Access</i> , 2019, 7, 89936-89947.	2.6	19
45	Controlling the diffusionless Lorenz equations with periodic parametric perturbation. <i>Computers and Mathematics With Applications</i> , 2009, 58, 1979-1987.	1.4	18
46	New insights into a chaotic system with only a Lyapunov stable equilibrium. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 9262-9279.	1.2	18
47	Is fractional-order chaos theory the new tool to model chaotic pandemics as Covid-19?. <i>Nonlinear Dynamics</i> , 2022, 109, 1187-1215.	2.7	18
48	Hyperchaos and Coexisting Attractors in a Modified van der Polâ€™Duffing Oscillator. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2019, 29, 1950067.	0.7	17
49	Dynamics at infinity and a Hopf bifurcation arising in a quadratic system with coexisting attractors. <i>Pramana - Journal of Physics</i> , 2018, 90, 1.	0.9	15
50	Antimonotonicity, Bifurcation and Multistability in the Vallis Model for El Niño. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2019, 29, 1950032.	0.7	15
51	Jacobi stability analysis and impulsive control of a 5D self-exciting homopolar disc dynamo. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2022, 27, 5029.	0.5	14
52	A new four-dimensional chaotic system with first Lyapunov exponent of about 22, hyperbolic curve and circular paraboloid types of equilibria and its switching synchronization by an adaptive global integral sliding mode control. <i>Chinese Physics B</i> , 2018, 27, 040503.	0.7	13
53	Stabilization for Networked Control System With Time-Delay and Packet Loss in Both S-C Side and C-A Side. <i>IEEE Access</i> , 2020, 8, 2513-2523.	2.6	13
54	Dynamics and optimal control of a stochastic coronavirus (COVID-19) epidemic model with diffusion. <i>Nonlinear Dynamics</i> , 2022, 109, 91-120.	2.7	13

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55	Zero-Hopf bifurcation analysis in an inertial two-neural system with delayed Crespi function. European Physical Journal: Special Topics, 2020, 229, 953-962.	1.2	12
56	Synchronization and Electronic Circuit Application of Hidden Hyperchaos in a Four-Dimensional Self-Exciting Homopolar Disc Dynamo without Equilibria. Complexity, 2017, 2017, 1-11.	0.9	11
57	A Novel 4D Chaotic System Based on Two Degrees of Freedom Nonlinear Mechanical System. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2018, 73, 595-607.	0.7	10
58	Elimination of spiral waves in a one-layer and two-layer network of pancreatic beta cells using a periodic stimuli. Chaos, Solitons and Fractals, 2020, 139, 110093.	2.5	10
59	Bifurcation analysis and integrability in the segmented disc dynamo with mechanical friction. Advances in Difference Equations, 2018, 2018, .	3.5	9
60	A modified regularized lattice Boltzmann model for convectionâ€“diffusion equation with a source term. Applied Mathematics Letters, 2021, 112, 106766.	1.5	9
61	Hidden attractors in a class of two-dimensional rational memristive maps with no fixed points. European Physical Journal: Special Topics, 2022, 231, 2173-2182.	1.2	9
62	Attractor and bifurcation of forced Lorenz-84 system. International Journal of Geometric Methods in Modern Physics, 2019, 16, 1950002.	0.8	8
63	Controlling Hidden Dynamics and Multistability of a Class of Two-Dimensional Maps via Linear Augmentation. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2150047.	0.7	8
64	Zero-Hopf bifurcation and Hopf bifurcation for smooth Chuaâ€™s system. Advances in Difference Equations, 2018, 2018, .	3.5	7
65	Periodic solutions for a four-dimensional hyperchaotic system. Advances in Difference Equations, 2020, 2020, .	3.5	7
66	Real-time online detection of trucks loading via genetic neural network. Automation in Construction, 2020, 120, 103354.	4.8	6
67	Existence of a global attractor for fractional differential hemivariational inequalities. Discrete and Continuous Dynamical Systems - Series B, 2020, 25, 1193-1212.	0.5	6
68	Synchronization of Coupled Nonidentical Fractional-Order Hyperchaotic Systems. Discrete Dynamics in Nature and Society, 2011, 2011, 1-9.	0.5	5
69	Dynamics of a 3D autonomous quadratic system with an invariant algebraic surface. Nonlinear Dynamics, 2014, 77, 1503-1518.	2.7	5
70	Coexisting attractors, chaos control and synchronization in a self-exciting homopolar dynamo system. International Journal of Intelligent Computing and Cybernetics, 2020, 13, 167-179.	1.6	5
71	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
72	Jacobi Stability Analysis and the Onset of Chaos in a Two-Degree-of-Freedom Mechanical System. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2150075.	0.7	5

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73	Bistable and coexisting attractors in current modulated edge emitting semiconductor laser: control and microcontroller-based design. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	1.5	5
74	Sensitivity Analysis of Optimal Control Problems Governed by Nonlinear Hilfer Fractional Evolution Inclusions. <i>Applied Mathematics and Optimization</i> , 2021, 84, 3045-3082.	0.8	5
75	Existence of homoclinic orbits and heteroclinic cycle in a class of three-dimensional piecewise linear systems with three switching manifolds. <i>Chaos</i> , 2020, 30, 123143.	1.0	5
76	Codimension one and two bifurcations in Cattaneo-Christov heat flux model. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2021, 26, 5305.	0.5	5
77	Existence of periodic orbits and chaos in a class of three-dimensional piecewise linear systems with two virtual stable node-foci. <i>Nonlinear Analysis: Hybrid Systems</i> , 2021, 43, 101114.	2.1	5
78	A 4D hyperchaotic Lorenz-type system: zero-Hopf bifurcation, ultimate bound estimation, and its variable-order fractional network. <i>European Physical Journal: Special Topics</i> , 2022, 231, 1847-1858.	1.2	5
79	Melnikov-type method for a class of hybrid piecewise-smooth systems with impulsive effect and noise excitation: Homoclinic orbits. <i>Chaos</i> , 2022, 32, .	1.0	5
80	Periodic solutions and circuit design of chaos in a unified stretch-twist-fold flow. <i>European Physical Journal: Special Topics</i> , 2021, 230, 1971-1978.	1.2	4
81	Comparison theorems of tempered fractional differential equations. <i>European Physical Journal: Special Topics</i> , 2022, 231, 2477-2485.	1.2	4
82	Complex Dynamics of a New Chaotic System without Equilibria. , 2012, , .		3
83	Weakly Asymptotic Stability for Fractional Delay Differential Mixed Variational Inequalities. <i>Applied Mathematics and Optimization</i> , 2019, 84, 273.	0.8	3
84	Global Dynamics of the Chaotic Disk Dynamo System Driven by Noise. <i>Complexity</i> , 2020, 2020, 1-9.	0.9	3
85	Spiking oscillations and multistability in nonsmooth air-gap brushless direct current motor: Analysis, circuit validation and chaos control. <i>International Transactions on Electrical Energy Systems</i> , 2021, 31, .	1.2	3
86	The Nonemptiness and Compactness of Mild Solution Sets for Riemann-Liouville Fractional Delay Differential Variational Inequalities. <i>Acta Mathematica Scientia</i> , 2021, 41, 1569-1578.	0.5	3
87	An Incremental Feedback Control for Uncertain Mechanical System. <i>IEEE Access</i> , 2020, 8, 20725-20734.	2.6	2
88	EXISTENCE AND STABILITY THEORIES FOR A COUPLED SYSTEM INVOLVING p-LAPLACIAN OPERATOR OF A NONLINEAR ATANGANA-BALEANU FRACTIONAL DIFFERENTIAL EQUATIONS. <i>Fractals</i> , 2022, 30, .	1.8	2
89	APPLICATION OF THE DISCRETE REGULARIZATION METHOD TO THE INVERSE OF THE CHORD VIBRATION EQUATION. <i>International Journal of Modern Physics B</i> , 2010, 24, 6335-6343.	1.0	1
90	Dynamical Analysis and Chaos Control of a Driven System with One Cubic Nonlinearity: Numerical and Experimental Investigations. <i>Advanced Materials Research</i> , 0, 486, 204-210.	0.3	1

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91	Bogdanovâ€™Takens singularity in the simple memristive time-delay system. European Physical Journal: Special Topics, 2019, 228, 2093-2100.	1.2	1
92	Generalized Hopf bifurcation analysis of a towed caster wheel system. International Journal of Non-Linear Mechanics, 2021, 137, 103789.	1.4	1
93	Dynamics analysis and robust modified function projective synchronization of Sprott E system with quadratic perturbation. Kybernetika, 0, , 616-631.	0.0	1
94	Bursting oscillations, bifurcation delay and multi-stability in complex nonlinear systems. European Physical Journal: Special Topics, 0, , .	1.2	1
95	Finite-time bounded control design for one-sided Lipschitz differential inclusions. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2021, 235, 943-951.	0.7	0
96	Pitchfork and Hopf bifurcations in quantum dot light emitting diode: Analysis and prediction by using artificial neural network. European Physical Journal D, 2021, 75, 1.	0.6	0
97	Hopf bifurcation analysis of a food web of four species. International Journal of Physical Sciences, 2012, 7, .	0.1	0
98	Qualitative geometric analysis of traveling wave solutions of the modified equal width Burgers equation. Mathematical Methods in the Applied Sciences, 0, , .	1.2	0