Chun Rui Zhang

List of Publications by Year
in descending order

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88	870	516215 16	525886 27
papers	citations	h-index	g-index

91	91	91	663
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Expression of the <scp>MYB</scp> transcription factor gene Bpl<scp>MYB</scp>46 affects abiotic stress tolerance and secondary cell wall deposition in Betula platyphylla. Plant Biotechnology Journal, 2017, 15, 107-121.	4.1	154
2	Bifurcation analysis of a class of neural networks with delays. Nonlinear Analysis: Real World Applications, 2008, 9, 2234-2252.	0.9	41
3	Stability and bifurcation analysis in a kind of business cycle model with delayâˆ†. Chaos, Solitons and Fractals, 2004, 22, 883-896.	2.5	40
4	Global existence of periodic solutions on a simplified BAM neural network model with delays. Chaos, Solitons and Fractals, 2008, 37, 1397-1408.	2.5	36
5	Multiple Hopf bifurcations of symmetric BAM neural network model with delay. Applied Mathematics Letters, 2009, 22, 616-622.	1.5	35
6	Stability and bifurcation of a two-dimension discrete neural network model with multi-delays. Chaos, Solitons and Fractals, 2007, 31, 1232-1242.	2.5	34
7	Exogenous GA3 Application Enhances Xylem Development and Induces the Expression of Secondary Wall Biosynthesis Related Genes in Betula platyphylla. International Journal of Molecular Sciences, 2015, 16, 22960-22975.	1.8	34
8	Dynamics in a diffusive predatorâ€“prey system with a constant prey refuge and delay. Nonlinear Analysis: Real World Applications, 2016, 31, 1-22.	0.9	32
9	Hopf bifurcation in numerical approximation of a class delay differential equations. Applied Mathematics and Computation, 2003, 146, 335-349.	1.4	29
10	Hopf bifurcation in numerical approximation of a n-dimension neural network model with multi-delays. Chaos, Solitons and Fractals, 2005, 25, 129-146.	2.5	25
11	Stability and global Hopf bifurcation for neutral BAM neural network. Neurocomputing, 2014, 145, 122-130.	3.5	25
12	Tamarix hispida aquaporin ThPIP2;5 confers salt and osmotic stress tolerance to transgenic Tamarix and Arabidopsis. Environmental and Experimental Botany, 2018, 152, 158-166.	2.0	25
13	Stability and bifurcation of a discrete red blood cell survival model. Chaos, Solitons and Fractals, 2006, 28, 386-394.	2.5	24
14	A model in a coupled system of simple neural oscillators with delays. Journal of Computational and Applied Mathematics, 2009, 229, 264-273.	1.1	21
15	Dynamics in a diffusive modified Leslieâ€“Gower predatorâ€“prey model with time delay and prey harvesting. Nonlinear Dynamics, 2017, 87, 863-878.	2.7	21
16	ThWRKY4 from Tamarix hispida Can Form Homodimers and Heterodimers and Is Involved in Abiotic Stress Responses. International Journal of Molecular Sciences, 2015, 16, 27097-27106.	1.8	19
17	Identification of novel cisâ€elements bound by BplMYB46 involved in abiotic stress responses and secondary wall deposition. Journal of Integrative Plant Biology, 2018, 60, 1000-1014.	4.1	18
18	Multiple Hopf bifurcations of three coupled van der Pol oscillators with delay. Applied Mathematics and Computation, 2011, 217, 7155-7166.	1.4	16

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19	A Delayed Diffusive Predatorâ€“Prey System with Michaelisâ€“Menten Type Predator Harvesting. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1850099.	0.7	16
20	A diffusive toxin producing phytoplankton model with maturation delay and three-dimensional patch. Computers and Mathematics With Applications, 2017, 73, 824-837.	1.4	15
21	Stability and bifurcation of a discrete BAM neural network model with delays. Chaos, Solitons and Fractals, 2008, 36, 612-616.	2.5	14
22	Patterns of interaction of coupled reactionâ€“diffusion systems of the FitzHughâ€“Nagumo type. Nonlinear Dynamics, 2019, 97, 1451-1476.	2.7	12
23	A delayed-diffusive predator-prey model with a ratio-dependent functional response. Communications in Nonlinear Science and Numerical Simulation, 2017, 53, 94-110.	1.7	11
24	Equivariant bifurcation in a coupled complex-valued neural network rings. Chaos, Solitons and Fractals, 2017, 98, 22-30.	2.5	10
25	Extended Jury criterion. Science China Mathematics, 2010, 53, 1133-1150.	0.8	9
26	Physiological and molecular responses of Betula platyphylla Suk to salt stress. Trees - Structure and Function, 2017, 31, 1653-1665.	0.9	9
27	Bifurcation analysis in a diffusive predatorâ€“prey system with Michaelisâ€“Menten-type predator harvesting. Advances in Difference Equations, 2018, 2018, .	3.5	8
28	Analysis of bifurcation in a system of n coupled oscillators with delays. Applied Mathematical Modelling, 2011, 35, 903-914.	2.2	7
29	Double Hopf bifurcation of coupled dissipative Stuartâ€“Landau oscillators with delay. Applied Mathematics and Computation, 2014, 227, 553-566.	1.4	7
30	Stability analysis in a first-order complex differential equations with delay. Nonlinear Analysis: Theory, Methods & Applications, 2004, 59, 657-671.	0.6	6
31	Equivariant Hopf-Pitchfork Bifurcation of Symmetric Coupled Neural Network with Delay. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650205.	0.7	6
32	The effect of prey refuge and time delay on a diffusive predatorâ€prey system with hyperbolic mortality. Complexity, 2016, 21, 446-459.	0.9	6
33	Dynamic properties of feed-forward neural networks and application in contrast enhancement for image. Chaos, Solitons and Fractals, 2018, 114, 281-290.	2.5	6
34	A Matrix Method for Determining Eigenvalues and Stability of Singular Neutral Delay-Differential Systems. Journal of Applied Mathematics, 2012, 2012, 1-11.	0.4	5
35	Explicit formulas for computing the normal form of Bogdanovâ€“Takens bifurcation in delay differential equations. Nonlinear Dynamics, 2017, 89, 1187-1194.	2.7	5
36	A diffusive predatorâ€“prey system with additional food and intra-specific competition among predators. International Journal of Biomathematics, 2018, 11, 1850060.	1.5	5

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37	Bifurcation Analysis of a Diffusive Predatorâ€“Prey Model with Monodâ€“Haldane Functional Response. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1950152.	0.7	5
38	Realizability of the normal forms for the non-semisimple 1:1 resonant Hopf bifurcation in a vector field. Communications in Nonlinear Science and Numerical Simulation, 2020, 91, 105407.	1.7	5
39	Pattern Dynamical Behaviors of One Type of Tree-Grass Model with Cross-Diffusion. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2022, 32, .	0.7	5
40	Simple bifurcation of coupled advertising oscillators with delay. Applied Mathematics Letters, 2011, 24, 1840-1844.	1.5	4
41	Three cell symmetry discrete-time-delayed neural network. Neurocomputing, 2013, 122, 239-244.	3.5	4
42	Prescribed Performance Control with Sliding-Mode Dynamic Surface for a Glue Pump Motor Based on Extended State Observers. Actuators, 2021, 10, 282.	1.2	4
43	Existence and global exponential stability of periodic solutions for feedback control complex dynamical networks with time-varying delays. Chaos, Solitons and Fractals, 2021, 152, 111483.	2.5	4
44	Dynamic properties of VDP-CPG model in rhythmic movement with delay. Mathematical Biosciences and Engineering, 2020, 17, 3190-3202.	1.0	4
45	Hopf bifurcation in numerical approximation for delay differential equations. Journal of Applied Mathematics and Computing, 2004, 14, 319-328.	1.2	3
46	Hopf bifurcation in numerical approximation of the sunflower equation. Journal of Applied Mathematics and Computing, 2006, 22, 113-124.	1.2	3
47	STABILITY AND BIFURCATION IN A LOGISTIC EQUATION WITH PIECEWISE CONSTANT ARGUMENTS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 1373-1379.	0.7	3
48	D3-Equivariant coupled advertising oscillators model. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 1706-1711.	1.7	3
49	High-Gain Observer-Based Sliding-Mode Dynamic Surface Control for Particleboard Glue Mixing and Dosing System. Algorithms, 2018, 11, 166.	1.2	3
50	The Research of Improved Active Disturbance Rejection Control Algorithm for Particleboard Glue System Based on Neural Network State Observer. Algorithms, 2019, 12, 259.	1.2	3
51	BIFURCATION ANALYSIS OF A DIFFUSIVE PREDATOR-PREY MODEL WITH BEDDINGTON-DEANGELIS FUNCTIONAL RESPONSE. Journal of Applied Analysis and Computation, 2021, 11, 920-936.	0.2	3
52	Hopf-pitchfork bifurcation of coupled van der Pol oscillator with delay. Nonlinear Analysis: Modelling and Control, 2017, 22, 598-613.	1.1	3
53	Stability analysis in a two-dimensional life energy system model with delay. Ecological Modelling, 2006, 193, 691-702.	1.2	2
54	Dynamic Properties of a Differential-Algebraic Biological Economic System. Journal of Applied Mathematics, 2012, 2012, 1-13.	0.4	2

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55	Z n equivariant in delay coupled dissipative Stuartâ€“Landau oscillators. Nonlinear Dynamics, 2012, 70, 2359-2366.	2.7	2
56	Symmetric periodic solutions of delay-coupled optoelectronic oscillators. Advances in Difference Equations, 2016, 2016, .	3.5	2
57	Stability and Hopf bifurcation periodic orbits in delay coupled Lotka-Volterra ring system. Open Mathematics, 2019, 17, 962-978.	0.5	2
58	Resonant bifurcation of feed-forward chains and application in image contrast enhancement. Mathematics and Computers in Simulation, 2021, 187, 294-307.	2.4	2
59	SECOND-ORDER NORMAL FORMS FOR N-DIMENSIONAL SYSTEMS WITH A NILPOTENT POINT. Journal of Applied Analysis and Computation, 2020, 10, 2233-2262.	0.2	2
60	Some notes on adjoint matrices over commutative integral domain. Applied Mathematics and Computation, 2004, 156, 805-816.	1.4	1
61	Dynamic Properties of Coupled Maps. Discrete Dynamics in Nature and Society, 2010, 2010, 1-10.	0.5	1
62	SYMMETRIC BIFURCATIONS IN A RING OF COUPLED DIFFERENTIAL EQUATION WITH PIECEWISE CONTINUOUS ARGUMENTS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 431-436.	0.7	1
63	Symmetry discrete-time delayed neural network. Advances in Difference Equations, 2012, 2012, .	3.5	1
64	DYNAMIC PROPERTIES OF A SYMMETRICALLY CONSERVATIVE TWO-MASS SYSTEM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350039.	0.7	1
65	Hopf-zero bifurcation of Oregonator oscillator with delay. Advances in Difference Equations, 2018, 2018, .	3.5	1
66	Hopf-Pitchfork Bifurcation in a Symmetrically Conservative Two-Mass System with Delay. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2018, 73, 511-519.	0.7	1
67	Steady State Bifurcation and Patterns of Reactionâ€“Diffusion Equations. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050215.	0.7	1
68	Analysis of dynamic properties on forest restoration-population pressure model. Mathematical Biosciences and Engineering, 2020, 17, 3567-3581.	1.0	1
69	Dynamic properties of the coupled Oregonator model with delay. Nonlinear Analysis: Modelling and Control, 2013, 18, 377-397.	1.1	1
70	Bifurcation of a feed forward neural network with delay and application in image contrast enhancement. Mathematical Biosciences and Engineering, 2020, 17, 387-403.	1.0	1
71	Bifurcation in Z2-symmetry quadratic polynomial systems with delay. Chaos, Solitons and Fractals, 2009, 42, 3078-3086.	2.5	0
72	Fractional order hperjerk system with delay feedback. , 2010, , .		0

#	Article	IF	Citations
73	Bifurcation analysis in delayed feedback neural network and application of chaotic control. , 2010, , .		0
74	CODIMENSION ONE BIFURCATION OF EQUIVARIANT NEURAL NETWORK MODEL WITH DELAY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 1255-1259.	0.7	0
75	Fractional order hyperjerk systems. , 2010, , .		0
76	Synchronization of the Fractional Order Finance Systems with Activation Feedback Control. Lecture Notes in Computer Science, 2011, , 119-127.	1.0	0
77	An Algebraic Criterion of Zero Solutions of Some Dynamic Systems. Abstract and Applied Analysis, 2012, 2012, 1-13.	0.3	0
78	Dynamical property analysis of fractionally damped van der pol oscillator and its application. Proceedings of SPIE, 2012, , .	0.8	0
79	Stability Analysis for Mutually Delay-Coupled Semiconductor Lasers System. Abstract and Applied Analysis, 2013, 2013, 1-9.	0.3	0
80	Dynamic Systems and Related Algebra with Applications. Abstract and Applied Analysis, 2013, 2013, 1-2.	0.3	0
81	Dynamics of a class of neutral three neurons network with delay. Advances in Difference Equations, 2013, 2013, 338.	3.5	0
82	Heat Transfer Hot-Pressing Model of Medium Density Fiberboard. Advanced Materials Research, 2014, 875-877, 1083-1086.	0.3	0
83	Analysis of bifurcation in a symmetric system of m coupled oscillators with delay. Applied Mathematical Modelling, 2014, 38, 4586-4601.	2.2	0
84	Expression profiles of genes regulated by BplMYB46 in Betula platyphylla. Journal of Forestry Research, 2019, 30, 2267-2276.	1.7	0
85	Hopf-zero bifurcation of the ring unidirectionally coupled Toda oscillators with delay. Nonlinear Analysis: Modelling and Control, 2021, 26, 375-395.	1.1	0
86	CELLULAR NEURAL NETWORK IMAGE EDGE DETECTION BASED ON HYPERBOLIC TANGENT FUNCTION - FROM PHOTOGRAPHIC IMAGE TO FLOW VISUALIZATION. Journal of Flow Visualization and Image Processing, 2015, 22, 151-163.	0.3	0
87	CODIMENSION-TWO BIFURCATION ANALYSIS OF THE CONTINUOUS STIRRED TANK REACTOR MODEL WITH DELAY. Journal of Applied Analysis and Computation, 2018, 8, 1586-1603.	0.2	0
88	REALIZATION OF NEURAL NETWORK FOR GAIT CHARACTERIZATION OF QUADRUPED LOCOMOTION. Journal of Applied Analysis and Computation, 2020, .	0.2	0