

Zaihua Wang

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.

84
papers

1,466
citations

21
h-index

35
g-index

90
ext. papers

1,692
ext. citations

3
avg, IF

5.19
L-index

#	Paper	IF	Citations
84	Algorithms for fast calculation of spectral abscissa for retarded time-delay systems with delay-dependent coefficients. <i>IFAC-PapersOnLine</i> , 2021 , 54, 102-107	0.7	
83	Motion control of a two-wheeled inverted pendulum with uncertain rolling resistance and angle constraint based on slow-fast dynamics. <i>Nonlinear Dynamics</i> , 2021 , 104, 2185-2199	5	1
82	Criteria for minimization of spectral abscissa of time-delay systems. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2021 , 42, 969-980	3.2	1
81	Parametric continuation algorithm for time-delay systems and bifurcation caused by multiple characteristic roots. <i>Nonlinear Dynamics</i> , 2021 , 103, 3241-3253	5	6
80	Integral-type-observer-based control with measurement uncertainty and application to two-wheeled inverted pendulum. <i>International Journal of Robust and Nonlinear Control</i> , 2021 , 31, 2633-2651	3.6	1
79	Bifurcation in a New Fractional Model of Cerebral Aneurysm at the Circle of Willis. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2021 , 31, 2150135	2	2
78	Calculating Characteristic Roots of Multi-Delayed Systems with Accumulation Points via a Definite Integral Method. <i>Journal of Scientific Computing</i> , 2021 , 88, 1	2.3	
77	Non-Smooth Bifurcation in Two Fractional-Order Memristive Circuits 2020 , 325-335		
76	Turning Motion Control Design of a Two-Wheeled Inverted Pendulum Using Curvature Tracking and Optimal Control Theory. <i>Journal of Optimization Theory and Applications</i> , 2019 , 181, 634-652	1.6	7
75	Observer-based position control of uncertain mechanical systems with measurement uncertainty. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 3606-3626	3.6	2
74	Stability of a class of linear fractional-delay systems 2019 , 279-293		
73	Inter-layer synchronization of periodic solutions in two coupled rings with time delay. <i>Physica D: Nonlinear Phenomena</i> , 2019 , 396, 1-11	3.3	9
72	Controlling a neuron by stimulating a coupled neuron. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2019 , 40, 13-24	3.2	19
71	Initial State Dependent Nonsmooth Bifurcations in a Fractional-Order Memristive Circuit. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2018 , 28, 1850091	2	10
70	Stability Switches of a Class of Fractional-Delay Systems With Delay-Dependent Coefficients. <i>Journal of Computational and Nonlinear Dynamics</i> , 2018 , 13,	1.4	7
69	On the stability of two-wheeled vehicle balancing passive human subjects. <i>IFAC-PapersOnLine</i> , 2018 , 51, 337-342	0.7	2
68	Balancing a wheeled inverted pendulum with a single accelerometer in the presence of time delay. <i>JVC/Journal of Vibration and Control</i> , 2017 , 23, 604-614	2	19

67	Effect of the initial ramps of creep and relaxation tests on models with fractional derivatives. <i>Meccanica</i> , 2017 , 52, 3541-3547	2.1	5
66	Optimal feedback gains of a delayed proportional-derivative (PD) control for balancing an inverted pendulum. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2017 , 33, 635-645	2	4
65	Sway Reduction of a Pendulum on a Movable Support Using a Delayed Proportional-derivative or Derivative-acceleration Feedback. <i>Procedia IUTAM</i> , 2017 , 22, 176-183		7
64	Effect of delay combinations on stability and Hopf bifurcation of an oscillator with acceleration-derivative feedback. <i>International Journal of Non-Linear Mechanics</i> , 2017 , 94, 392-399	2.8	14
63	Numerical Stability Test of Linear Time-Delay Systems of Neutral Type. <i>Advances in Delays and Dynamics</i> , 2017 , 77-91	0.3	7
62	Correcting the initialization of models with fractional derivatives via history-dependent conditions. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2016 , 32, 320-325	2	13
61	Motion Controller Design of Wheeled Inverted Pendulum with an Input Delay Via Optimal Control Theory. <i>Journal of Optimization Theory and Applications</i> , 2016 , 168, 625-645	1.6	10
60	Stability, bifurcation, and synchronization of delay-coupled ring neural networks. <i>Nonlinear Dynamics</i> , 2016 , 84, 1063-1078	5	25
59	Network-scale effect on synchronizability of fully coupled network with connection delay. <i>Chaos</i> , 2016 , 26, 043103	3.3	3
58	Stability and delay sensitivity of neutral fractional-delay systems. <i>Chaos</i> , 2016 , 26, 084301	3.3	9
57	A robust optimal trajectory tracking control for systems with an input delay. <i>Journal of the Franklin Institute</i> , 2016 , 353, 2627-2649	4	10
56	Delay-dependent stability analysis by using delay-independent integral evaluation. <i>Automatica</i> , 2016 , 70, 153-157	5.7	33
55	Robust motion control of a two-wheeled inverted pendulum with an input delay based on optimal integral sliding mode manifold. <i>Nonlinear Dynamics</i> , 2016 , 85, 2065-2074	5	27
54	Stability switches and bifurcation in a system of four coupled neural networks with multiple time delays. <i>Nonlinear Dynamics</i> , 2015 , 82, 1551-1567	5	11
53	A fractional-order memristor model and the fingerprint of the simple series circuits including a fractional-order memristor. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2015 , 64, 238401	0.6	11
52	Optimal Feedback Control for Linear Systems with Input Delays Revisited. <i>Journal of Optimization Theory and Applications</i> , 2014 , 163, 989-1017	1.6	9
51	Abundant bursting patterns of a fractional-order Morris-Lecar neuron model. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014 , 19, 1956-1969	3.7	42
50	Exact stability test of neutral delay differential equations via a rough estimation of the testing integral. <i>International Journal of Dynamics and Control</i> , 2014 , 2, 154-163	1.7	15

49	Stability and Hopf Bifurcation of Time-delayed Systems with Complex Coefficients 2013 , 193-218		
48	Measuring memory with the order of fractional derivative. <i>Scientific Reports</i> , 2013 , 3, 3431	4.9	195
47	A Fractional-Order Phase-Locked Loop with Time-Delay and Its Hopf Bifurcation. <i>Chinese Physics Letters</i> , 2013 , 30, 110201	1.8	4
46	A Modified Multi-Step Differential Transform Method for Solving Fractional Dynamic Systems. <i>Journal of Computational and Nonlinear Dynamics</i> , 2013 , 8,	1.4	4
45	Stability and Hopf bifurcation control of a fractional-order small world network model. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2013 , 43, 467-477	1.5	8
44	Time-delay effect on the bursting of the synchronized state of coupled Hindmarsh-Rose neurons. <i>Chaos</i> , 2012 , 22, 043127	3.3	18
43	Relaxation oscillation and attractive basins of a two-neuron Hopfield network with slow and fast variables. <i>Nonlinear Dynamics</i> , 2012 , 70, 1231-1240	5	5
42	Stability analysis of nonlinear dynamic systems with slowly and periodically varying delay. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012 , 17, 3999-4009	3.7	6
41	A VERY SIMPLE CRITERION FOR CHARACTERIZING THE CROSSING DIRECTION OF TIME-DELAY SYSTEMS WITH DELAY-DEPENDENT PARAMETERS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012 , 22, 1250048	2	8
40	An effective analytical criterion for stability testing of fractional-delay systems. <i>Automatica</i> , 2011 , 47, 2001-2005	5.7	32
39	Initialized fractional differential equations with Riemann-Liouville fractional-order derivative. <i>European Physical Journal: Special Topics</i> , 2011 , 193, 49-60	2.3	23
38	Two effective stability criteria for linear time-delay systems with complex coefficients. <i>Journal of Systems Science and Complexity</i> , 2011 , 24, 835-849	1	9
37	A simple algorithm for testing the stability of periodic solutions of some nonlinear oscillators with large time delay. <i>Science China Technological Sciences</i> , 2011 , 54, 2033-2043	3.5	5
36	Stability test of fractional-delay systems via integration. <i>Science China: Physics, Mechanics and Astronomy</i> , 2011 , 54, 1839-1846	3.6	12
35	A graphical test for the interval stability of fractional-delay systems. <i>Computers and Mathematics With Applications</i> , 2011 , 62, 1501-1509	2.7	17
34	Solution and Stability of a Linear Fractionally Damped Oscillator. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2011 , 101-108	0.3	2
33	Vibration Control via Positive Delayed Feedback. <i>Springer Proceedings in Physics</i> , 2011 , 385-391	0.2	3
32	Stability and Hopf bifurcation of a class of TCP/AQM networks. <i>Nonlinear Analysis: Real World Applications</i> , 2010 , 11, 1552-1559	2.1	32

31	Delayed Hopf bifurcation in time-delayed slow-fast systems. <i>Science China Technological Sciences</i> , 2010 , 53, 656-663	3.5	17
30	Stability of a linear oscillator with damping force of the fractional-order derivative. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010 , 53, 345-352	3.6	44
29	The impact of delayed feedback on the pulsating oscillations of class-B lasers. <i>International Journal of Non-Linear Mechanics</i> , 2010 , 45, 727-733	2.8	7
28	General solution of the Bagley-Torvik equation with fractional-order derivative. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010 , 15, 1279-1285	3.7	46
27	General Solution of a Vibration System with Damping Force of Fractional-Order Derivative 2010 , 3-11		
26	Effects of small world connection on the dynamics of a delayed ring network. <i>Nonlinear Dynamics</i> , 2009 , 56, 127-144	5	24
25	Stability and Hopf bifurcations of an optoelectronic time-delay feedback system. <i>Nonlinear Dynamics</i> , 2009 , 57, 125-134	5	5
24	The optimal form of the fractional-order difference feedbacks in enhancing the stability of a sdof vibration system. <i>Journal of Sound and Vibration</i> , 2009 , 326, 476-488	3.9	23
23	Singular perturbation methods for nonlinear dynamic systems with time delays. <i>Chaos, Solitons and Fractals</i> , 2009 , 40, 13-27	9.3	25
22	Numerical Stability Test of Neutral Delay Differential Equations. <i>Mathematical Problems in Engineering</i> , 2008 , 2008, 1-10	1.1	12
21	An iteration method for calculating the periodic solution of time-delay systems after a Hopf bifurcation. <i>Nonlinear Dynamics</i> , 2008 , 53, 1-11	5	14
20	A modified averaging scheme with application to the secondary Hopf bifurcation of a delayed van der Pol oscillator. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2008 , 24, 449-454	2	11
19	Calculation of the rightmost characteristic root of retarded time-delay systems via Lambert W function. <i>Journal of Sound and Vibration</i> , 2008 , 318, 757-767	3.9	28
18	Hopf bifurcation of a nonlinear delayed system of machine tool vibration via pseudo-oscillator analysis. <i>Nonlinear Analysis: Real World Applications</i> , 2007 , 8, 1561-1568	2.1	10
17	PSEUDO-OSCILLATOR ANALYSIS OF SCALAR NONLINEAR TIME-DELAY SYSTEMS NEAR A HOPF BIFURCATION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2007 , 17, 2805-2814	2	14
16	AN ENERGY ANALYSIS OF NONLINEAR OSCILLATORS WITH TIME-DELAYED COUPLING. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2006 , 16, 2275-2292	2	8
15	Stabilization of vibration systems via delayed state difference feedback. <i>Journal of Sound and Vibration</i> , 2006 , 296, 117-129	3.9	27
14	An Energy Analysis of the Local Dynamics of a Delayed Oscillator Near a Hopf Bifurcation. <i>Nonlinear Dynamics</i> , 2006 , 46, 149-159	5	10

13	Robust stabilization to non-linear delayed systems via delayed state feedback: the averaging method. <i>Journal of Sound and Vibration</i> , 2005 , 279, 937-953	3.9	9
12	HOPF BIFURCATION CONTROL OF DELAYED SYSTEMS WITH WEAK NONLINEARITY VIA DELAYED STATE FEEDBACK. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2005 , 15, 1787-1799	2	3
11	An Energy Analysis of Amplitude Death of a Pair of Oscillators With Delayed Coupling 2005 , 765		
10	Robust Hurwitz stability of a class of complex polynomials arising from H _∞ control theory. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2004 , 84, 380-390	1	0
9	Robust Hurwitz stability test for linear systems with uncertain commensurate time delays. <i>IEEE Transactions on Automatic Control</i> , 2004 , 49, 1389-1393	5.9	11
8	GLOBAL DYNAMICS OF A DUFFING OSCILLATOR WITH DELAYED DISPLACEMENT FEEDBACK. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2004 , 14, 2753-2775	2	43
7	Dynamics of Controlled Mechanical Systems with Delayed Feedback 2002 ,		170
6	Dimensional Reduction for Nonlinear Time-Delayed Systems Composed of Stiff and Soft Substructures. <i>Nonlinear Dynamics</i> , 2001 , 25, 317-331	5	10
5	STABILITY SWITCHES OF TIME-DELAYED DYNAMIC SYSTEMS WITH UNKNOWN PARAMETERS. <i>Journal of Sound and Vibration</i> , 2000 , 233, 215-233	3.9	70
4	Robust Stability Test for Dynamic Systems with Short Delays by Using Padé Approximation. <i>Nonlinear Dynamics</i> , 1999 , 18, 275-287	5	25
3	DELAY-INDEPENDENT STABILITY OF RETARDED DYNAMIC SYSTEMS OF MULTIPLE DEGREES OF FREEDOM. <i>Journal of Sound and Vibration</i> , 1999 , 226, 57-81	3.9	36
2	STABILITY ANALYSIS OF DAMPED SDOF SYSTEMS WITH TWO TIME DELAYS IN STATE FEEDBACK. <i>Journal of Sound and Vibration</i> , 1998 , 214, 213-225	3.9	38
1	Primary resonance of a nonlinear fractional model for cerebral aneurysm at the circle of Willis. <i>Nonlinear Dynamics</i> , 1	5	1