

Jian Xu

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.

86

papers

923

citations

18

h-index

26

g-index

89

ext. papers

1,110

ext. citations

2.9

avg, IF

4.81

L-index

#	Paper	IF	Citations
86	Tunable broadband low-frequency band gap of multiple-layer metastructure induced by time-delayed vibration absorbers. <i>Nonlinear Dynamics</i> , 2022 , 107, 1903	5	2
85	Effects of Currents on Human Freestyle and Breaststroke Swimming Analyzed by a Rigid-Body Dynamic Model. <i>Machines</i> , 2022 , 10, 17	2.9	1
84	Online Adaptive PID Control for a Multi-Joint Lower Extremity Exoskeleton System Using Improved Particle Swarm Optimization. <i>Machines</i> , 2022 , 10, 21	2.9	2
83	Experimental study of event-based neural network control on parallel manipulator. <i>Mechatronics</i> , 2021 , 75, 102514	3	2
82	Multimodal vibration suppression of nonlinear Euler-Bernoulli beam by multiple time-delayed vibration absorbers. <i>Meccanica</i> , 2021 , 56, 2429-2449	2.1	0
81	Bi-objective optimization for improving the locomotion performance of the vibration-driven robot. <i>Archive of Applied Mechanics</i> , 2021 , 91, 2073-2088	2.2	5
80	Establishment of the equal-peak principle for a multiple-DOF nonlinear system with multiple time-delayed vibration absorbers. <i>Nonlinear Dynamics</i> , 2021 , 104, 241-266	5	2
79	Yoshimura-origami Based Earthworm-like Robot With 3-dimensional Locomotion Capability. <i>Frontiers in Robotics and AI</i> , 2021 , 8, 738214	2.8	7
78	Variability in Indonesian Throughflow Upper Hydrology in Response to Precession-Induced Tropical Climate Processes Over the Past 120 kyr. <i>Journal of Geophysical Research: Oceans</i> , 2021 , 126, e2020JC017014	3.7	1
77	Energy determines multiple stability in time-delayed systems. <i>Nonlinear Dynamics</i> , 2020 , 102, 2399-2416	5	3
76	Indo-Pacific Hydroclimate in Response to Changes of the Intertropical Convergence Zone: Discrepancy on Precession and Obliquity Bands Over the Last 410 kyr. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD032125	4.4	3
75	Worm-like motion enabled by changing the position of mass center in the anisotropic environment. <i>Archive of Applied Mechanics</i> , 2020 , 90, 1059-1071	2.2	0
74	Event-Triggered Adaptive Neural Network Control of Manipulators with Model-Based Weights Initialization Method. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2020 , 7, 443-454	3.8	5
73	Parameter design for a vibration absorber with time-delayed feedback control. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2019 , 35, 624-640	2	10
72	Planar locomotion of earthworm-like metameric robots. <i>International Journal of Robotics Research</i> , 2019 , 38, 1751-1774	5.7	8
71	Mixed-coexistence of periodic orbits and chaotic attractors in an inertial neural system with a nonmonotonic activation function. <i>Mathematical Biosciences and Engineering</i> , 2019 , 16, 6406-6425	2.1	5
70	Suppression of oscillatory congestion via trunk link bandwidth and control gain in star network. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2019 , 40, 25-48	3.2	1

69	Dynamics and Realization of a Feedback-Controlled Nonlinear Isolator With Variable Time Delay. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2019 , 141,	1.6	10
68	An Extended Synchronization Method to Identify Slowly Time-Varying Parameters in Nonlinear Systems. <i>IEEE Transactions on Signal Processing</i> , 2018 , 66, 438-448	4.8	4
67	A Galerkin discretisation-based identification for parameters in nonlinear mechanical systems. <i>International Journal of Systems Science</i> , 2018 , 49, 908-919	2.3	
66	A frequency-domain method for solving linear time delay systems with constant coefficients. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2018 , 34, 781-791	2	1
65	Stability and dynamics of parallel plunge grinding. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 99, 881-895	3.2	11
64	A vibration-driven planar locomotion robot. <i>Robotica</i> , 2018 , 36, 1402-1420	2.1	18
63	Distributed Adaptive Synchronization Control with Friction Compensation of Networked Lagrange Systems. <i>International Journal of Control, Automation and Systems</i> , 2018 , 16, 1038-1048	2.9	3
62	Nonlinear equivalent model and its identification for a delayed absorber with magnetic action using distorted measurement. <i>Nonlinear Dynamics</i> , 2017 , 88, 937-954	5	9
61	Experiment-based identification of time delays in linear systems. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2017 , 33, 429-439	2	2
60	Basins of attraction of the bistable region of time-delayed cutting dynamics. <i>Physical Review E</i> , 2017 , 96, 032205	2.4	14
59	Regenerative chatter in a plunge grinding process with workpiece imbalance. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 89, 2845-2862	3.2	10
58	Zero-Hopf bifurcation and multistability coexistence on a four-neuron network model with multiple delays. <i>Nonlinear Dynamics</i> , 2017 , 87, 2357-2366	5	11
57	The Optimal Locomotion of a Self-Propelled Worm Actuated by Two Square Waves. <i>Micromachines</i> , 2017 , 8,	3.3	2
56	Time-delay identification for vibration systems with multiple feedback. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2016 , 32, 1138-1148	2	1
55	The time-delay coupling nonlinear effect in sky-hook control of vibration isolation systems using Magneto-Rheological Fluid dampers. <i>Journal of Mechanical Science and Technology</i> , 2016 , 30, 4157-4166	1.6	7
54	Regenerative chatter in self-interrupted plunge grinding. <i>Meccanica</i> , 2016 , 51, 3185-3202	2.1	12
53	Stability switches and bifurcation analysis in a coupled neural system with multiple delays. <i>Science China Technological Sciences</i> , 2016 , 59, 920-931	3.5	5
52	Regenerative and frictional chatter in plunge grinding. <i>Nonlinear Dynamics</i> , 2016 , 86, 283-307	5	13

51	Lateral periodic vibrations of footbridges under crowd excitation. <i>Nonlinear Dynamics</i> , 2016 , 86, 1701-1710	4
50	A comprehensive study on the locomotion characteristics of a metamer earthworm-like robot. <i>Multibody System Dynamics</i> , 2015 , 35, 153-177	2.8 29
49	A comprehensive study on the locomotion characteristics of a metamer earthworm-like robot. <i>Multibody System Dynamics</i> , 2015 , 34, 391-413	2.8 15
48	Experimental studies on active control of a dynamic system via a time-delayed absorber. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2015 , 31, 229-247	2 22
47	Analysis of a Car-Following Model with Driver Memory Effect. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2015 , 25, 1550057	2 2
46	Double Hopf bifurcation in a four-neuron delayed system with inertial terms. <i>Nonlinear Dynamics</i> , 2015 , 82, 1969-1978	5 3
45	Pattern dynamics of a predator-prey reaction-diffusion model with spatiotemporal delay. <i>Nonlinear Dynamics</i> , 2015 , 81, 2155-2163	5 22
44	An improved time-delay saturation controller for suppression of nonlinear beam vibration. <i>Nonlinear Dynamics</i> , 2015 , 82, 1691-1707	5 14
43	A three-phase vibration-driven system's locomotion on an isotropic rough surface 2015 ,	1
42	Lateral Vibrations of a Cable-Stayed Bridge under Crowd Excitation. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-11	1.1
41	Synchronization Transition and Traffic Congestion in One-Dimensional Traffic Model. <i>Abstract and Applied Analysis</i> , 2015 , 2015, 1-10	0.7 1
40	Multitype Activity Coexistence in an Inertial Two-Neuron System with Multiple Delays. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2015 , 25, 1530040	2 23
39	Stability and oscillations in a slow-fast flexible joint system with transformation delay. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2014 , 30, 727-738	2 9
38	Stability switches and Bogdanov-Takens bifurcation in an inertial two-neuron coupling system with multiple delays. <i>Science China Technological Sciences</i> , 2014 , 57, 893-904	3.5 35
37	Analysis of vibration suppression of master structure in nonlinear systems using nonlinear delayed absorber. <i>International Journal of Dynamics and Control</i> , 2014 , 2, 55-67	1.7 3
36	Analysis of Critical Velocities for an Infinite Timoshenko Beam Resting on an Elastic Foundation Subjected to a Harmonic Moving Load. <i>Shock and Vibration</i> , 2014 , 2014, 1-9	1.1 1
35	Stick-Slip Effect in a Vibration-Driven System With Dry Friction: Sliding Bifurcations and Optimization. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014 , 81,	2.7 36
34	Stability switches and double Hopf bifurcation in a two-neural network system with multiple delays. <i>Cognitive Neurodynamics</i> , 2013 , 7, 505-21	4.2 29

33	Applications of the integral equation method to delay differential equations. <i>Nonlinear Dynamics</i> , 2013 , 73, 2241-2260	5	6
32	Hopf bifurcation and chaos in an inertial neuron system with coupled delay. <i>Science China Technological Sciences</i> , 2013 , 56, 2299-2309	3.5	31
31	Delay Induced Strong and Weak Resonances in Delayed Differential Systems 2013 , 163-191		
30	Bifurcation Scenarios of Neural Firing Patterns across Two Separated Chaotic Regions as Indicated by Theoretical and Biological Experimental Models. <i>Abstract and Applied Analysis</i> , 2013 , 2013, 1-12	0.7	0
29	Application of Nakamura's Model to Describe the Delayed Increase in Lateral Vibration of Footbridges. <i>Journal of Engineering Mechanics - ASCE</i> , 2013 , 139, 1708-1713	2.4	3
28	A simple approach to achieve modified projective synchronization between two different chaotic systems. <i>Scientific World Journal, The</i> , 2013 , 2013, 568194	2.2	2
27	Codimension-two bursting analysis in the delayed neural system with external stimulations. <i>Nonlinear Dynamics</i> , 2012 , 67, 309-328	5	53
26	Dynamics of a three-module vibration-driven system with non-symmetric Coulomb's dry friction. <i>Multibody System Dynamics</i> , 2012 , 27, 455-485	2.8	23
25	Bursting-like motion induced by time-varying delay in an internet congestion control model. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2012 , 28, 1169-1179	2	3
24	An analytic criterion for generalized synchronization in unidirectionally coupled systems based on the auxiliary system approach. <i>Chaos</i> , 2012 , 22, 033146	3.3	13
23	The Combination of High-Gain Sliding Mode Observers Used as Receivers in Secure Communication. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2012 , 59, 2702-2712	3.9	24
22	Nonlinear chatter with large amplitude in a cylindrical plunge grinding process. <i>Nonlinear Dynamics</i> , 2012 , 69, 1781-1793	5	17
21	Controlled motion of a two-module vibration-driven system induced by internal acceleration-controlled masses. <i>Archive of Applied Mechanics</i> , 2012 , 82, 461-477	2.2	18
20	Multiple scales analysis for double Hopf bifurcation with 1:3 resonance. <i>Nonlinear Dynamics</i> , 2011 , 66, 39-51	5	18
19	Oscillation control for n-dimensional congestion control model via time-varying delay. <i>Science China Technological Sciences</i> , 2011 , 54, 2044-2053	3.5	6
18	AN EFFICIENT METHOD FOR STUDYING FOLD-HOPF BIFURCATION IN DELAYED NEURAL NETWORKS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2011 , 21, 1393-1406	2	8
17	FOLD-HOPF BIFURCATION ANALYSIS FOR A COUPLED FITZHUGH-NAGUMO NEURAL SYSTEM WITH TIME DELAY. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2010 , 20, 3919-3934	2	25
16	Effects of Time Delay and Noise on Asymptotic Stability in Human Quiet Standing Model. <i>Mathematical Problems in Engineering</i> , 2010 , 2010, 1-14	1.1	1

15	Fold-Hopf bifurcation in a simplified four-neuron BAM (bidirectional associative memory) neural network with two delays. <i>Science China Technological Sciences</i> , 2010 , 53, 633-644	3.5	15
14	Delayed saturation controller for vibration suppression in a stainless-steel beam. <i>Nonlinear Dynamics</i> , 2010 , 62, 177-193	5	20
13	A perturbation-incremental scheme for studying Hopf bifurcation in delayed differential systems. <i>Science in China Series D: Earth Sciences</i> , 2009 , 52, 698-708		24
12	Effects of delays on the basin boundary of attraction in a hopfield network of two delay-connecting neurons. <i>Nonlinear Dynamics, Psychology, and Life Sciences</i> , 2009 , 13, 161-80	0.4	1
11	Dynamics of multi-rigid-body systems under non-smooth constraints and linear complementary problems. <i>International Journal of Computer Mathematics</i> , 2008 , 85, 889-898	1.2	3
10	Sliding state stepping algorithm for solving impact problems of multi-rigid-body system with joint friction. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2007 , 28, 1621-1627	3.2	2
9	Flow-induced internal resonances and mode exchange in horizontal cantilevered pipe conveying fluid (I). <i>Applied Mathematics and Mechanics (English Edition)</i> , 2006 , 27, 935-941	3.2	17
8	Flow-induced internal resonances and mode exchange in horizontal cantilevered pipe conveying fluid (II). <i>Applied Mathematics and Mechanics (English Edition)</i> , 2006 , 27, 943-951	3.2	10
7	Carbon isotopic record of foraminifers in surface sediments from the South China Sea and its significance. <i>Science Bulletin</i> , 2005 , 50, 162-166		2
6	DELAY-INDUCED BIFURCATIONS IN A NONAUTONOMOUS SYSTEM WITH DELAYED VELOCITY FEEDBACKS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2004 , 14, 2777-2798	2	50
5	Major Pleistocene stages in a carbon perspective: The South China Sea record and its global comparison. <i>Paleoceanography</i> , 2004 , 19, n/a-n/a		74
4	Calcium carbonate pump during Quaternary glacial cycles in the South China Sea. <i>Science Bulletin</i> , 2003 , 48, 1862-1869		12
3	Singular Characteristics of Nonlinear Normal Modes in a Two Degrees of Freedom Asymmetric Systems with Cubic Nonlinearities. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2001 , 22, 972-982	3.2	1
2	Coordinated optimization of locomotion velocity and energy consumption in vibration-driven system. <i>Meccanica</i> , 1	2.1	
1	Self-/mutual-symmetric rhythms and their coexistence in a delayed half-center oscillator of the CPG neural system. <i>Nonlinear Dynamics</i> , 1	5	1