Jian Xu

List of Publications by Year
in descending order

89 papers	1,357 citations	304368 22 h-index	414034 32 g-index
89 all docs	89 docs citations	89 times ranked	834 citing authors

#	Article	IF	Citations
1	Major Pleistocene stages in a carbon perspective: The South China Sea record and its global comparison. Paleoceanography, 2004, 19, n/a-n/a.	3.0	90
2	DELAY-INDUCED BIFURCATIONS IN A NONAUTONOMOUS SYSTEM WITH DELAYED VELOCITY FEEDBACKS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 2777-2798.	0.7	59
3	Codimension-two bursting analysis in the delayed neural system with external stimulations. Nonlinear Dynamics, 2012, 67, 309-328.	2.7	58
4	Stick-Slip Effect in a Vibration-Driven System With Dry Friction: Sliding Bifurcations and Optimization. Journal of Applied Mechanics, Transactions ASME, 2014, 81, .	1.1	47
5	A comprehensive study on the locomotion characteristics of a metameric earthworm-like robot. Multibody System Dynamics, 2015, 35, 153-177.	1.7	46
6	Stability switches and Bogdanov-Takens bifurcation in an inertial two-neuron coupling system with multiple delays. Science China Technological Sciences, 2014, 57, 893-904.	2.0	44
7	Stability switches and double Hopf bifurcation in a two-neural network system with multiple delays. Cognitive Neurodynamics, 2013, 7, 505-521.	2.3	43
8	Hopf bifurcation and chaos in an inertial neuron system with coupled delay. Science China Technological Sciences, 2013, 56, 2299-2309.	2.0	41
9	Multitype Activity Coexistence in an Inertial Two-Neuron System with Multiple Delays. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1530040.	0.7	36
10	FOLDâ€"HOPF BIFURCATION ANALYSIS FOR A COUPLED FITZHUGHâ€"NAGUMO NEURAL SYSTEM WITH TIME DELAY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 3919-3934.	0.7	32
11	Dynamics of a three-module vibration-driven system with non-symmetric Coulombâ€™s dry friction. Multibody System Dynamics, 2012, 27, 455-485.	1.7	31
12	Experimental studies on active control of a dynamic system via a time-delayed absorber. Acta Mechanica Sinica/Lixue Xuebao, 2015, 31, 229-247.	1.5	29
13	A perturbation-incremental scheme for studying Hopf bifurcation in delayed differential systems. Science in China Series D: Earth Sciences, 2009, 52, 698-708.	0.9	28
14	Delayed saturation controller for vibration suppression inÂaÂstainless-steel beam. Nonlinear Dynamics, 2010, 62, 177-193.	2.7	28
15	The Combination of High-Gain Sliding Mode Observers Used as Receivers in Secure Communication. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 2702-2712.	3.5	28
16	Yoshimura-origami Based Earthworm-like Robot With 3-dimensional Locomotion Capability. Frontiers in Robotics and AI, 2021, 8, 738214.	2.0	28
17	A comprehensive study on the locomotion characteristics of a metameric earthworm-like robot. Multibody System Dynamics, 2015, 34, 391-413.	1.7	27
18	A vibration-driven planar locomotion robotâ€"*Shell*. Robotica, 2018, 36, 1402-1420.	1.3	27

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19	Planar locomotion of earthworm-like metameric robots. International Journal of Robotics Research, 2019, 38, 1751-1774.	5.8	27
20	Pattern dynamics of a predator–prey reaction–diffusion model with spatiotemporal delay. Nonlinear Dynamics, 2015, 81, 2155-2163.	2.7	26
21	Controlled motion of a two-module vibration-driven system induced by internal acceleration-controlled masses. Archive of Applied Mechanics, 2012, 82, 461-477.	1.2	25
22	Regenerative and frictional chatter in plunge grinding. Nonlinear Dynamics, 2016, 86, 283-307.	2.7	24
23	Flow-induced internal resonances and mode exchange in horizontal cantilevered pipe conveying fluid (I). Applied Mathematics and Mechanics (English Edition), 2006, 27, 935-941.	1.9	23
24	Multiple scales analysis for double Hopf bifurcation with 1:3 resonance. Nonlinear Dynamics, 2011, 66, 39-51.	2.7	21
25	Bi-objective optimization for improving the locomotion performance of the vibration-driven robot. Archive of Applied Mechanics, 2021, 91, 2073-2088.	1.2	21
26	Nonlinear chatter with large amplitude in a cylindrical plunge grinding process. Nonlinear Dynamics, 2012, 69, 1781-1793.	2.7	20
27	Basins of attraction of the bistable region of time-delayed cutting dynamics. Physical Review E, 2017, 96, 032205.	0.8	20
28	Dynamics and Realization of a Feedback-Controlled Nonlinear Isolator With Variable Time Delay. Journal of Vibration and Acoustics, Transactions of the ASME, 2019, 141, .	1.0	20
29	Regenerative chatter in a plunge grinding process with workpiece imbalance. International Journal of Advanced Manufacturing Technology, 2017, 89, 2845-2862.	1.5	19
30	Stability and dynamics of parallel plunge grinding. International Journal of Advanced Manufacturing Technology, 2018, 99, 881-895.	1.5	19
31	Parameter design for a vibration absorber with time-delayed feedback control. Acta Mechanica Sinica/Lixue Xuebao, 2019, 35, 624-640.	1.5	19
32	Flow-induced internal resonances and mode exchange in horizontal cantilevered pipe conveying fluid (II). Applied Mathematics and Mechanics (English Edition), 2006, 27, 943-951.	1.9	18
33	An improved time-delay saturation controller for suppression of nonlinear beam vibration. Nonlinear Dynamics, 2015, 82, 1691-1707.	2.7	17
34	Regenerative chatter in self-interrupted plunge grinding. Meccanica, 2016, 51, 3185-3202.	1.2	17
35	Fold-Hopf bifurcation in a simplified four-neuron BAM (bidirectional associative memory) neural network with two delays. Science China Technological Sciences, 2010, 53, 633-644.	2.0	16
36	Calcium carbonate pump during Quaternary glacial cycles in the South China Sea. Science Bulletin, 2003, 48, 1862-1869.	1.7	14

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37	An analytic criterion for generalized synchronization in unidirectionally coupled systems based on the auxiliary system approach. Chaos, 2012, 22, 033146.	1.0	13
38	Applications of the integral equation method to delay differential equations. Nonlinear Dynamics, 2013, 73, 2241-2260.	2.7	13
39	Self-/mutual-symmetric rhythms and their coexistence in a delayed half-center oscillator of the CPG neural system. Nonlinear Dynamics, 2022, 108, 2595-2609.	2.7	13
40	Nonlinear equivalent model and its identification for a delayed absorber with magnetic action using distorted measurement. Nonlinear Dynamics, 2017, 88, 937-954.	2.7	12
41	Zero-Hopf bifurcation and multistability coexistence on a four-neuron network model with multiple delays. Nonlinear Dynamics, 2017, 87, 2357-2366.	2.7	12
42	Mixed-coexistence of periodic orbits and chaotic attractors in an inertial neural system with a nonmonotonic activation function. Mathematical Biosciences and Engineering, 2019, 16, 6406-6425.	1.0	12
43	Snake-worm: A Bi-modal Locomotion Robot. Journal of Bionic Engineering, 2022, 19, 1272-1287.	2.7	12
44	Stability and oscillations in a slow-fast flexible joint system with transformation delay. Acta Mechanica Sinica/Lixue Xuebao, 2014, 30, 727-738.	1.5	10
45	Oscillation control for n-dimensional congestion control model via time-varying delay. Science China Technological Sciences, 2011, 54, 2044-2053.	2.0	9
46	AN EFFICIENT METHOD FOR STUDYING FOLD-HOPF BIFURCATION IN DELAYED NEURAL NETWORKS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 1393-1406.	0.7	9
47	Indoâ€Pacific Hydroclimate in Response to Changes of the Intertropical Convergence Zone: Discrepancy on Precession and Obliquity Bands Over the Last 410Âkyr. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032125.	1.2	9
48	Energy determines multiple stability in time-delayed systems. Nonlinear Dynamics, 2020, 102, 2399-2416.	2.7	8
49	Tunable broadband low-frequency band gap of multiple-layer metastructure induced by time-delayed vibration absorbers. Nonlinear Dynamics, 2022, 107, 1903-1918.	2.7	8
50	Double Hopf bifurcation in a four-neuron delayed system with inertial terms. Nonlinear Dynamics, 2015, 82, 1969-1978.	2.7	7
51	The time-delay coupling nonlinear effect in sky-hook control of vibration isolation systems using Magneto-Rheological Fluid dampers. Journal of Mechanical Science and Technology, 2016, 30, 4157-4166.	0.7	7
52	An Extended Synchronization Method to Identify Slowly Time-Varying Parameters in Nonlinear Systems. IEEE Transactions on Signal Processing, 2018, 66, 438-448.	3.2	7
53	Event-Triggered Adaptive Neural Network Control of Manipulators with Model-Based Weights Initialization Method. International Journal of Precision Engineering and Manufacturing - Green Technology, 2020, 7, 443-454.	2.7	7
54	Online Adaptive PID Control for a Multi-Joint Lower Extremity Exoskeleton System Using Improved Particle Swarm Optimization. Machines, 2022, 10, 21.	1.2	7

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55	Stability switches and bifurcation analysis in a coupled neural system with multiple delays. Science China Technological Sciences, 2016, 59, 920-931.	2.0	6
56	Distributed Adaptive Synchronization Control with Friction Compensation of Networked Lagrange Systems. International Journal of Control, Automation and Systems, 2018, 16, 1038-1048.	1.6	6
57	Experimental study of event-based neural network control on parallel manipulator. Mechatronics, 2021, 75, 102514.	2.0	6
58	Analysis of vibration suppression of master structure in nonlinear systems using nonlinear delayed absorber. International Journal of Dynamics and Control, 2014, 2, 55-67.	1.5	5
59	Lateral periodic vibrations of footbridges under crowd excitation. Nonlinear Dynamics, 2016, 86, 1701-1710.	2.7	5
60	Experiment-based identification of time delays in linear systems. Acta Mechanica Sinica/Lixue Xuebao, 2017, 33, 429-439.	1.5	5
61	Establishment of the equal-peak principle for a multiple-DOF nonlinear system with multiple time-delayed vibration absorbers. Nonlinear Dynamics, 2021, 104, 241-266.	2.7	5
62	Effects of Time Delay and Noise on Asymptotic Stability in Human Quiet Standing Model. Mathematical Problems in Engineering, 2010, 2010, 1-14.	0.6	4
63	Application of Nakamuraâ€™s Model to Describe the Delayed Increase in Lateral Vibration of Footbridges. Journal of Engineering Mechanics - ASCE, 2013, 139, 1708-1713.	1.6	4
64	Multimodal vibration suppression of nonlinear Eulerâ€"Bernoulli beam by multiple time-delayed vibration absorbers. Meccanica, 2021, 56, 2429-2449.	1.2	4
65	Variability in Indonesian Throughflow Upper Hydrology in Response to Precessionâ€Induced Tropical Climate Processes Over the Past 120Âkyr. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC017014.	1.0	4
66	Sliding state stepping algorithm for solving impact problems of multi-rigid-body system with joint friction. Applied Mathematics and Mechanics (English Edition), 2007, 28, 1621-1627.	1.9	3
67	Dynamics of multi-rigid-body systems under non-smooth constraints and linear complementary problems. International Journal of Computer Mathematics, 2008, 85, 889-898.	1.0	3
68	Bursting-like motion induced by time-varying delay in an internet congestion control model. Acta Mechanica Sinica/Lixue Xuebao, 2012, 28, 1169-1179.	1.5	3
69	A Simple Approach to Achieve Modified Projective Synchronization between Two Different Chaotic Systems. Scientific World Journal, The, 2013, 2013, 1-7.	0.8	3
70	Analysis of a Car-Following Model with Driver Memory Effect. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550057.	0.7	3
71	Carbon isotopic record of foraminifers in surface sediments from the South China Sea and its significance. Science Bulletin, 2005, 50, 162-166.	1.7	2
72	Bifurcation Scenarios of Neural Firing Patterns across Two Separated Chaotic Regions as Indicated by Theoretical and Biological Experimental Models. Abstract and Applied Analysis, 2013, 2013, 1-12.	0.3	2

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73	Analysis of Critical Velocities for an Infinite Timoshenko Beam Resting on an Elastic Foundation Subjected to a Harmonic Moving Load. Shock and Vibration, 2014, 2014, 1-9.	0.3	2
74	Synchronization Transition and Traffic Congestion in One-Dimensional Traffic Model. Abstract and Applied Analysis, 2015, 2015, 1-10.	0.3	2
75	Time-delay identification for vibration systems with multiple feedback. Acta Mechanica Sinica/Lixue Xuebao, 2016, 32, 1138-1148.	1.5	2
76	The Optimal Locomotion of a Self-Propelled Worm Actuated by Two Square Waves. Micromachines, 2017, 8, 364.	1.4	2
77	Suppression of oscillatory congestion via trunk link bandwidth and control gain in star network. Applied Mathematics and Mechanics (English Edition), 2019, 40, 25-48.	1.9	2
78	Worm-like motion enabled by changing the position of mass center in the anisotropic environment. Archive of Applied Mechanics, 2020, 90, 1059-1071.	1.2	2
79	Coordinated optimization of locomotion velocity and energy consumption in vibration-driven system. Meccanica, 0, , 1.	1.2	2
80	Effects of Currents on Human Freestyle and Breaststroke Swimming Analyzed by a Rigid-Body Dynamic Model. Machines, 2022, 10, 17.	1.2	2
81	Title is missing!. Applied Mathematics and Mechanics (English Edition), 2001, 22, 972-982.	1.9	1
82	Modeling and optimal control of automated trolleys. , 2009, , .		1
83	A three-phase vibration-driven system's locomotion on an isotropic rough surface. , 2015, , .		1
84	A frequency-domain method for solving linear time delay systems with constant coefficients. Acta Mechanica Sinica/Lixue Xuebao, 2018, 34, 781-791.	1.5	1
85	Effects of delays on the basin boundary of attraction in a hopfield network of two delay-connecting neurons. Nonlinear Dynamics, Psychology, and Life Sciences, 2009, 13, 161-80.	0.2	1
86	Delay Induced Strong and Weak Resonances in Delayed Differential Systems. , 2013, , 163-191.		0
87	Delay-induced Hopf bifurcation in the double-link inverted pendulum system for human quiet standing. , 2014, , .		0
88	Lateral Vibrations of a Cable-Stayed Bridge under Crowd Excitation. Mathematical Problems in Engineering, 2015, 2015, 1-11.	0.6	0
89	A Galerkin discretisation-based identification for parameters in nonlinear mechanical systems. International Journal of Systems Science, 2018, 49, 908-919.	3.7	0