Jinchen Ji

List of Publications by Citations

142 papers	2,318 citations	25 h-index	42 g-index
150 ext. papers	3,153 ext. citations	3.7 avg, IF	6.03 L-index

#	Paper	IF	Citations
142	On an output feedback finite-time stabilization problem. *IEEE Transactions on Automatic Control*, **2001**, 46, 305-309	5.9	441
141	Nonlinear vibration isolation for fluid-conveying pipes using quasi-zero stiffness characteristics. *Mechanical Systems and Signal Processing*, **2019**, 121, 675-688	7.8	83
140	NON-LINEAR OSCILLATIONS OF A ROTOR IN ACTIVE MAGNETIC BEARINGS. *Journal of Sound and Vibration*, **2001**, 240, 599-612	3.9	68
139	The response of a Duffing–van der Pol oscillator under delayed feedback control. *Journal of Sound and Vibration*, **2006**, 291, 644-655	3.9	64
138	BIFURCATION BEHAVIOR OF A ROTOR SUPPORTED BY ACTIVE MAGNETIC BEARINGS. *Journal of Sound and Vibration*, **2000**, 235, 133-151	3.9	59
137	Nonlinear torsional vibrations of a wind turbine gearbox. *Applied Mathematical Modelling*, **2015**, 39, 4928-4950	4.5	56
136	Non-linear oscillations of a rotor-magnetic bearing system under superharmonic resonance conditions. *International Journal of Non-Linear Mechanics*, **2003**, 38, 829-835	2.8	55
135	Design of a quasi-zero stiffness isolation system for supporting different loads. *Journal of Sound and Vibration*, **2020**, 471, 115198	3.9	49
134	RESONANCES OF A NON-LINEAR s.d.o.f. SYSTEM WITH TWO TIME-DELAYS IN LINEAR FEEDBACK CONTROL. *Journal of Sound and Vibration*, **2002**, 253, 985-1000	3.9	44
133	Stability and dynamics of a controlled van der Pol–Duffing oscillator. *Chaos, Solitons and Fractals*, **2006**, 28, 555-570	9.3	42
132	Adaptive group consensus in uncertain networked Euler–Lagrange systems under directed topology. *Nonlinear Dynamics*, **2015**, 82, 1145-1157	5	39
131	Suppression of the primary resonance vibrations of a forced nonlinear system using a dynamic vibration absorber. *Journal of Sound and Vibration*, **2010**, 329, 2044-2056	3.9	39
130	STABILITY AND HOPF BIFURCATION OF A MAGNETIC BEARING SYSTEM WITH TIME DELAYS. *Journal of Sound and Vibration*, **2003**, 259, 845-856	3.9	37
129	A fault information-guided variational mode decomposition (FIVMD) method for rolling element bearings diagnosis. *Mechanical Systems and Signal Processing*, **2022**, 164, 108216	7.8	37
128	Formation control of multiple Euler-Lagrange systems via null-space-based behavioral control. *Science China Information Sciences*, **2016**, 59, 1-11	3.4	34
127	An innovative quasi-zero stiffness isolator with three pairs of oblique springs. *International Journal of Mechanical Sciences*, **2021**, 192, 106093	5.5	33
126	Nonlinear Dynamics of Magnetic Bearing Systems. *Journal of Intelligent Material Systems and Structures*, **2008**, 19, 1471-1491	2.3	32

125	Fault diagnosis of reciprocating compressor using a novel ensemble empirical mode decomposition-convolutional deep belief network. *Measurement: Journal of the International Measurement Confederation*, **2020**, 156, 107619	4.6	31
124	Design of a nonlinear vibration absorber using three-to-one internal resonances. *Mechanical Systems and Signal Processing*, **2014**, 42, 236-246	7.8	31
123	A new method for random vibration analysis of stochastic truss structures. *Finite Elements in Analysis and Design*, **2009**, 45, 190-199	2.2	31
122	Nonresonant Hopf bifurcations of a controlled van der PolDuffing oscillator. *Journal of Sound and Vibration*, **2006**, 297, 183-199	3.9	30
121	Increase of quasi-zero stiffness region using two pairs of oblique springs. *Mechanical Systems and Signal Processing*, **2020**, 144, 106975	7.8	28
120	Nonlinear vibrations of a slightly curved beam with nonlinear boundary conditions. *International Journal of Mechanical Sciences*, **2020**, 168, 105294	5.5	28
119	Control of bridge cranes with distributed-mass payloads under windy conditions. *Mechanical Systems and Signal Processing*, **2016**, 72-73, 409-419	7.8	27
118	Dynamics of a Jeffcott rotor-magnetic bearing system with time delays. *International Journal of Non-Linear Mechanics*, **2003**, 38, 1387-1401	2.8	26
117	Periodic solution and its stability of a delayed Beddington-DeAngelis type predator-prey system with discontinuous control strategy. *Mathematical Methods in the Applied Sciences*, **2019**, 42, 4498-4515	2.3	24
116	Dynamics of two delay coupled van der Pol oscillators. *Mechanics Research Communications*, **2006**, 33, 614-627	2.2	23
115	Current, wave, wind and interaction induced dynamic response of a 5 MW spar-type offshore direct-drive wind turbine. *Engineering Structures*, **2019**, 178, 395-409	4.7	21
114	Vibration control based metamaterials and origami structures: A state-of-the-art review. *Mechanical Systems and Signal Processing*, **2021**, 161, 107945	7.8	21
113	Modelling and tuning for a time-delayed vibration absorber with friction. *Journal of Sound and Vibration*, **2018**, 424, 137-157	3.9	20
112	Stability and bifurcation in an electromechanical system with time delays. *Mechanics Research Communications*, **2003**, 30, 217-225	2.2	20
111	Dynamic Analysis of Wind Turbine Gearbox Components. *Energies*, **2016**, 9, 110	3.1	20
110	Global dynamics of a controlled discontinuous diffusive SIR epidemic system. *Applied Mathematics Letters*, **2021**, 121, 107420	3.5	20
109	A novel correntropy-based band selection method for the fault diagnosis of bearings under fault-irrelevant impulsive and cyclostationary interferences. *Mechanical Systems and Signal Processing*, **2021**, 153, 107498	7.8	19
108	Internal loads and contact pressure distributions on the main shaft bearing in a modern gearless wind turbine. *Tribology International*, **2020**, 141, 105960	4.9	19

107	Control of flexible single-link manipulators having Duffing oscillator dynamics. *Mechanical Systems and Signal Processing*, **2019**, 121, 44-57	7.8	18
106	Complex near-grazing dynamics in impact oscillators. *International Journal of Mechanical Sciences*, **2019**, 156, 106-122	5.5	17
105	A novel integrated quasi-zero stiffness vibration isolator for coupled translational and rotational vibrations. *Mechanical Systems and Signal Processing*, **2021**, 149, 107340	7.8	17
104	Cooperative adaptive consensus tracking for multiple nonholonomic mobile robots. *International Journal of Systems Science*, **2019**, 50, 1556-1567	2.3	15
103	Multi-objective region reaching control for a swarm of robots. *Automatica*, **2019**, 103, 81-87	5.7	15
102	On the approximate solution of a piecewise nonlinear oscillator under super-harmonic resonance. *Journal of Sound and Vibration*, **2005**, 283, 467-474	3.9	15
101	Two families of super-harmonic resonances in a time-delayed nonlinear oscillator. *Journal of Sound and Vibration*, **2015**, 349, 299-314	3.9	14
100	Second-order consensus of multiple non-identical agents with non-linear protocols. *IET Control Theory and Applications*, **2012**, 6, 1319	2.5	14
99	A meshfree level-set method for topological shape optimization of compliant multiphysics actuators. *Computer Methods in Applied Mechanics and Engineering*, **2012**, 223-224, 133-152	5.7	14
98	Fast synchronization of directionally coupled chaotic systems. *Applied Mathematical Modelling*, **2013**, 37, 127-136	4.5	14
97	Novel two-parameter dynamics of impact oscillators near degenerate grazing points. *International Journal of Non-Linear Mechanics*, **2020**, 120, 103403	2.8	13
96	Group synchronization of coupled harmonic oscillators without velocity measurements. *Nonlinear Dynamics*, **2018**, 91, 2773-2788	5	13
95	Nonlinear Dynamics of a Smooth and Discontinuous Oscillator with Multiple Stability. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2015**, 25, 1530038	2	13
94	Non-linear normal modes and their bifurcation of a two DOF system with quadratic and cubic non-linearity. *International Journal of Non-Linear Mechanics*, **2006**, 41, 1028-1038	2.8	13
93	Neural network-based region reaching formation control for multi-robot systems in obstacle environment. *Neurocomputing*, **2019**, 333, 11-21	5.4	13
92	Adaptive formation control of networked Lagrangian systems with a moving leader. *Nonlinear Dynamics*, **2017**, 90, 2755-2766	5	12
91	Synchronization of Discretely Coupled Harmonic Oscillators Using Sampled Position States Only. *IEEE Transactions on Automatic Control*, **2018**, 63, 3994-3999	5.9	12
90	Difference resonances in a controlled van der Pol-Duffing oscillator involving time delay. *Chaos, Solitons and Fractals*, **2009**, 42, 975-980	9.3	12

89	Additive resonances of a controlled van der Pol–Duffing oscillator. *Journal of Sound and Vibration*, **2008**, 315, 22-33	3.9	12
88	Coexistence of two families of sub-harmonic resonances in a time-delayed nonlinear system at different forcing frequencies. *Mechanical Systems and Signal Processing*, **2017**, 93, 151-163	7.8	11
87	Degenerate grazing bifurcations in a three-degree-of-freedom impact oscillator. *Nonlinear Dynamics*, **2019**, 97, 525-539	5	11
86	Secondary resonances of a quadratic nonlinear oscillator following two-to-one resonant Hopf bifurcations. *Nonlinear Dynamics*, **2014**, 78, 2161-2184	5	11
85	Periodic and chaotic motions of a harmonically forced piecewise linear system. *International Journal of Mechanical Sciences*, **2004**, 46, 1807-1825	5.5	11
84	Forced phase-locked response of a nonlinear system with time delay after Hopf bifurcation. *Chaos, Solitons and Fractals*, **2005**, 25, 461-473	9.3	11
83	Global dynamic behavior of a predator–prey model under ratio-dependent state impulsive control. *Applied Mathematical Modelling*, **2020**, 77, 1842-1859	4.5	11
82	An origami inspired quasi-zero stiffness vibration isolator using a novel truss-spring based stack Miura-ori structure. *Mechanical Systems and Signal Processing*, **2022**, 165, 108383	7.8	11
81	Control of Three-Dimensional Nonlinear Slosh in Moving Rectangular Containers. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2018**, 140,	1.6	10
80	Tracking task-space synchronization of networked Lagrangian systems with switching topology. *Nonlinear Dynamics*, **2016**, 83, 1673-1685	5	10
79	Nonlinear response of a forced van der Pol–Duffing oscillator at non-resonant bifurcations of codimension two. *Chaos, Solitons and Fractals*, **2009**, 41, 1467-1475	9.3	10
78	Analytical approximation of the primary resonance response of a periodically excited piecewise non-linear–linear oscillator. *Journal of Sound and Vibration*, **2004**, 278, 327-342	3.9	10
77	Approximate solutions and chaotic motions of a piecewise nonlinear–linear oscillator. *Chaos, Solitons and Fractals*, **2004**, 20, 1121-1133	9.3	10
76	Dynamics of a controlled discontinuous computer worm system. *Proceedings of the American Mathematical Society*, **2020**, 148, 4389-4403	0.8	10
75	An improved quasi-zero stiffness isolator with two pairs of oblique springs to increase isolation frequency band. *Nonlinear Dynamics*, **2021**, 104, 349-365	5	10
74	Practical consensus tracking control of multiple nonholonomic wheeled mobile robots in polar coordinates. *International Journal of Robust and Nonlinear Control*, **2020**, 30, 3831-3847	3.6	9
73	Group-Bipartite Consensus in the Networks With Cooperative-Competitive Interactions. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2020**, 67, 3292-3296	3.5	9
72	Consensus of second-order multi-agent systems using partial agents' velocity measurements. *Nonlinear Dynamics*, **2016**, 86, 1927-1935	5	9

71	Use of degeneration to stabilize near grazing periodic motion in impact oscillators. *Communications in Nonlinear Science and Numerical Simulation*, **2019**, 66, 20-30	3.7	9
70	Suppression of super-harmonic resonance response using a linear vibration absorber. *Mechanics Research Communications*, **2011**, 38, 411-416	2.2	9
69	Group Regional Consensus of Networked Lagrangian Systems With Input Disturbances. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2017**, 139,	1.6	8
68	The effect of the rotor adjustment on the vibration behaviour of the drive-train system for a 5 MW direct-drive wind turbine. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2018**, 232, 3027-3044	1.3	8
67	Consensus of Second-order Multi-agent Systems with Directed Networks Using Relative Position Measurements Only. *International Journal of Control, Automation and Systems*, **2019**, 17, 85-93	2.9	8
66	Parameter identification of time-delayed nonlinear systems: An integrated method with adaptive noise correction. *Journal of the Franklin Institute*, **2019**, 356, 5858-5880	4	7
65	Optimal design of multi-cellular cores for sandwich panels under harmonic excitation. *Composite Structures*, **2020**, 248, 112507	5.3	7
64	Reciprocating compressor fault diagnosis using an optimized convolutional deep belief network. *JVC/Journal of Vibration and Control*, **2020**, 26, 1538-1548	2	7
63	Dynamics of a piecewise linear system subjected to a saturation constraint. *Journal of Sound and Vibration*, **2004**, 271, 905-920	3.9	7
62	Non-trivial equilibriums and natural frequencies of a slightly curved pipe conveying supercritical fluid. *Ocean Engineering*, **2021**, 227, 108899	3.9	7
61	Intelligent Fault Diagnosis of a Reciprocating Compressor Using Mode Isolation Convolutional Deep Belief Networks. *IEEE/ASME Transactions on Mechatronics*, **2021**, 26, 1668-1677	5.5	7
60	Nonlocal nonlinear vibration of an embedded carbon nanotube conveying viscous fluid by introducing a modified variational iteration method. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2020**, 42, 1	2	6
59	Prediction of Process Parameters on Stress and Strain Fields in Hot Rolling Process using Finite Element Method. *Information Technology Journal*, **2011**, 10, 2406-2412	0.7	6
58	Consensus of multiple Euler-Lagrange systems using one Euler-Lagrange System's velocity measurements. *International Journal of Control, Automation and Systems*, **2017**, 15, 450-456	2.9	5
57	Fatigue life analysis of double-row tapered roller bearing in a modern wind turbine under oscillating external load and speed. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2020**, 234, 3116-3130	1.3	5
56	Bifurcations and dynamics of a plant disease system under non-smooth control strategy. *Nonlinear Dynamics*, **2020**, 99, 3351-3371	5	5
55	Formation control with collision avoidance for uncertain networked Lagrangian systems via adaptive gain techniques. *IET Control Theory and Applications*, **2018**, 12, 1393-1401	2.5	5
54	Drop Dynamics of a High-Speed Unbalanced Rotor in Active Magnetic Bearing Machinery*. *Mechanics Based Design of Structures and Machines*, **2000**, 28, 185-200		5

53	Oscillation induced by Hopf bifurcation in the p53-Mdm2 feedback module. *IET Systems Biology*, **2019**, 13, 251-259	1.4	5
52	Region-based flocking control for networked robotic systems with communication delays. *European Journal of Control*, **2020**, 52, 78-86	2.5	5
51	Neimark-Sacker Bifurcations Near Degenerate Grazing Point in a Two Degree-of-Freedom Impact Oscillator. *Journal of Computational and Nonlinear Dynamics*, **2018**, 13,	1.4	5
50	Decreasing infinite-mode vibrations in single-link flexible manipulators by a continuous function. *Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering*, **2017**, 231, 436-446	1	4
49	Delay-induced novel dynamics in a hexagonal centrifugal governor system. *International Journal of Non-Linear Mechanics*, **2020**, 121, 103465	2.8	4
48	Global dynamic behavior of a plant disease model with ratio dependent impulsive control strategy. *Mathematics and Computers in Simulation*, **2020**, 177, 120-139	3.3	4
47	Sampled-data control of coupled harmonic oscillators using measured position states only. *IET Control Theory and Applications*, **2018**, 12, 985-991	2.5	4
46	Boundary condition handling approaches for the model reduction of a vehicle frame. *Mechanical Systems and Signal Processing*, **2016**, 75, 123-137	7.8	4
45	Damping design of harmonically excited flexible structures with graded materials to minimize sound pressure and radiation. *Engineering Optimization*, **2021**, 53, 348-367	2	4
44	A novel cyclic-correntropy based indicator for gear wear monitoring. *Tribology International*, **2022**, 171, 107528	4.9	4
43	Stability of the coupled vibrations of work roll and strip in cold rolling process. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2017**, 231, 1169-1181	2.4	3
42	Synchronization of networked multibody systems using fundamental equation of mechanics. *Applied Mathematics and Mechanics (English Edition)*, **2016**, 37, 555-572	3.2	3
41	Amplitude modulated motions in a two degree-of-freedom system with quadratic nonlinearities under parametric excitation: experimental investigation. *Mechanics Research Communications*, **1999**, 26, 499-505	2.2	3
40	Globally exponentially stable periodic solution in a general delayed predator-prey model under discontinuous prey control strategy. *Discrete and Continuous Dynamical Systems - Series B*, **2020**, 25, 2639-2664	1.3	3
39	Influence of particle morphology and concentration on the piezoresistivity of cement-based sensors with magneto-aligned nickel fillers. *Measurement: Journal of the International Measurement Confederation*, **2022**, 187, 110194	4.6	3
38	Practical stochastic synchronisation of coupled harmonic oscillators subjected to heterogeneous noises and its applications to electrical systems. *IET Control Theory and Applications*, **2019**, 13, 96-105	2.5	3
37	Vibration control of coupled Duffing oscillators in flexible single-link manipulators. *JVC/Journal of Vibration and Control*, **2021**, 27, 2058-2068	2	3
36	A novel adaptive bandwidth selection method for VoldKalman filtering and its application in wind turbine planetary gearbox diagnostics. *Structural Health Monitoring*,147592172210999	4.4	3

35	Investigation & comparison of the integration of flywheel energy storage in hybrid electric and electric vehicles using bond graphs **2017**,		2
34	Natural Frequency Analysis of a Spar-Type Offshore Wind Turbine Tower With End Mass Components. *Journal of Offshore Mechanics and Arctic Engineering*, **2018**, 140,	1.5	2
33	Multistability in the Centrifugal Governor System Under a Time-Delay Control Strategy. *Journal of Computational and Nonlinear Dynamics*, **2019**, 14,	1.4	2
32	Affine Combination of the Filtered-x LMS/F Algorithms for Active Control **2021**, 313-319		2
31	An analytical solution of Reynolds equation for evaluating the characteristics of surface textured bearing. *Industrial Lubrication and Tribology*, **2020**, 72, 1075-1085	1.3	2
30	Development of a test equipment for rating front to rear-end collisions based on C-NCAP-2018. *International Journal of Crashworthiness*, **2020**, 1-11	1	2
29	Periodic Oscillations in the Quorum-Sensing System with Time Delay. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2020**, 30, 2050127	2	2
28	Synchronization control for networked mobile robot systems based on Udwadia□Kalaba approach. *Nonlinear Dynamics*, **2021**, 105, 315-330	5	2
27	Analytical-numerical studies on the stability and bifurcations of periodic motion in the vibro-impact systems with clearances. *International Journal of Non-Linear Mechanics*, **2019**, 109, 155-165	2.8	2
26	Semi-active noise control for a hermetic digital scroll compressor. *Journal of Low Frequency Noise Vibration and Active Control*, **2020**, 39, 1204-1215	1.5	2
25	Practical design of the QZS isolator with one pair of oblique bars by considering pre-compression and low-dynamic stiffness. *Nonlinear Dynamics*,1	5	2
24	Enhanced design of the quasi-zero stiffness vibration isolator with three pairs of oblique springs: Theory and experiment. *JVC/Journal of Vibration and Control*,107754632210741	2	2
23	Denoising identification for nonlinear systems with distorted streaming. *International Journal of Non-Linear Mechanics*, **2019**, 117, 103224	2.8	1
22	Bipartite Consensus Control for a Swarm of Robots. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2021**, 143,	1.6	1
21	Creation of Neimark-Sacker Bifurcation for a Three-Degree-of-Freedom Vibro-Impact System with Clearances **2020**, 107-115		1
20	Weighted containment control for Lagrangian systems with heterogeneous interactions of cooperation and competition. *International Journal of Control*, **2020**, 1-11	1.5	1
19	Weighted bipartite containment motion of Lagrangian systems with impulsive cooperative□competitive interactions. *Nonlinear Dynamics*, **2021**, 104, 2417-2431	5	1
18	A comparative study of the dynamics of a three-disk dynamo system with and without time delay. *Applied Mathematics and Computation*, **2021**, 399, 126016	2.7	1

17	Theoretical and experimental study of surface texturing with laser machining. *Advances in Manufacturing*, **2021**, 9, 538	2.7	1
16	Investigation of Dynamic Load Sharing Behavior for Herringbone Planetary Gears considering Multicoupling Manufacturing Errors. *Shock and Vibration*, **2021**, 2021, 1-15	1.1	1
15	Stochastic distribution synchronization and pinning control for complex heterogeneous dynamical networks. *Asian Journal of Control*, **2020**, 22, 1547-1564	1.7	1
14	Weighted coordinated motion for coupled harmonic oscillators with heterogeneous interactions of cooperation and competition. *International Journal of Systems Science*, **2021**, 52, 1026-1041	2.3	1
13	Fully Distributed Region-Reaching Control with Collision Avoidance for Multi-robot Systems. *Robotica*,1-12	2.1	1
12	Adaptive Region Tracking Control for Robot Manipulator Systems with Uncertain Kinematics and Dynamics **2018**,		1
11	Two-parameter dynamics of an autonomous mechanical governor system with time delay. *Nonlinear Dynamics*,1	5	0
10	Classification of transfer modes in gas metal arc welding using acoustic signal analysis. *International Journal of Advanced Manufacturing Technology*, **2021**, 115, 3089-3104	3.2	0
9	A novel morphing propeller system inspired by origami-based structure. *Journal of Mechanisms and Robotics*,1-26	2.2	0
8	Nonlinear forced vibrations of a slightly curved pipe conveying supercritical fluid. *JVC/Journal of Vibration and Control*,107754632211020	2	0
7	Implicit resonances in time-delayed nonlinear systems **2020**, 31-55		
6	The effects of bending moments on the dynamics of a wind turbine planetary gearbox **2020**, 321-359		
5	A Four-Stage Method for Active Control with Online Feedback Path Modelling Using Control Signal. *Applied Sciences (Switzerland)*, **2019**, 9, 2973	2.6	
4	Formation mechanism in alloy steel rolling process using thermo-mechanical coupling method. *Journal Wuhan University of Technology, Materials Science Edition*, **2012**, 27, 422-426	1	
3	Attenuation of primary resonance vibrations of a non-linear system using a non-linear vibration absorber. *Australian Journal of Mechanical Engineering*, **2011**, 8, 113-119	1	
2	Observation of dependence of the nonlinear response on initial conditions in a two-DOF mechanical structure. *Mechanics Research Communications*, **2001**, 28, 543-550	2.2	
1	Fracture Mechanics-Based Design and Analysis of Structural Adhesive Joints **2020**, 159-204		