Jinchen Ji

List of Publications by Year
in descending order

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147 papers	4,034 citations	136950 32 h-index	149698 56 g-index
150 all docs	150 docs citations	150 times ranked	2057 citing authors

#	Article	IF	Citations
1	Enhanced design of the quasi-zero stiffness vibration isolator with three pairs of oblique springs: Theory and experiment. JVC/Journal of Vibration and Control, 2023, 29, 2049-2063.	2.6	8
2	A Novel Morphing Propeller System Inspired by Origami-Based Structure. Journal of Mechanisms and Robotics, 2023, 15, .	2.2	7
3	Nonlinear forced vibrations of a slightly curved pipe conveying supercritical fluid. JVC/Journal of Vibration and Control, 2023, 29, 3634-3645.	2.6	4
4	A novel adaptive bandwidth selection method for Voldâ€“Kalman filtering and its application in wind turbine planetary gearbox diagnostics. Structural Health Monitoring, 2023, 22, 1027-1048.	7.5	29
5	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.	8.0	80
6	A fault information-guided variational mode decomposition (FIVMD) method for rolling element bearings diagnosis. Mechanical Systems and Signal Processing, 2022, 164, 108216.	8.0	129
7	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.	5.0	7
8	Two-parameter dynamics of an autonomous mechanical governor system with time delay. Nonlinear Dynamics, 2022, 107, 641-663.	5.2	4
9	Practical design of the QZS isolator with one pair of oblique bars by considering pre-compression and low-dynamic stiffness. Nonlinear Dynamics, 2022, 108, 3313-3330.	5.2	21
10	A novel cyclic-correntropy based indicator for gear wear monitoring. Tribology International, 2022, 171, 107528.	5.9	25
11	Dynamic modeling and vibration control of underwater soft-link manipulators undergoing planar motions. Mechanical Systems and Signal Processing, 2022, 181, 109540.	8.0	7
12	Damping design of harmonically excited flexible structures with graded materials to minimize sound pressure and radiation. Engineering Optimization, 2021, 53, 348-367.	2.6	9
13	An innovative quasi-zero stiffness isolator with three pairs of oblique springs. International Journal of Mechanical Sciences, 2021, 192, 106093.	6.7	110
14	A novel integrated quasi-zero stiffness vibration isolator for coupled translational and rotational vibrations. Mechanical Systems and Signal Processing, 2021, 149, 107340.	8.0	60
15	Weighted coordinated motion for coupled harmonic oscillators with heterogeneous interactions of cooperation and competition. International Journal of Systems Science, 2021, 52, 1026-1041.	5.5	2
16	Vibration control of coupled Duffing oscillators in flexible single-link manipulators. JVC/Journal of Vibration and Control, 2021, 27, 2058-2068.	2.6	10
17	An improved quasi-zero stiffness isolator with two pairs of oblique springs to increase isolation frequency band. Nonlinear Dynamics, 2021, 104, 349-365.	5.2	51
18	Weighted bipartite containment motion of Lagrangian systems with impulsive cooperativeâ€“competitive interactions. Nonlinear Dynamics, 2021, 104, 2417-2431.	5.2	6

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19	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.	8.0	52
20	Non-trivial equilibriums and natural frequencies of a slightly curved pipe conveying supercritical fluid. Ocean Engineering, 2021, 227, 108899.	4.3	41
21	Synchronization control for networked mobile robot systems based on Udwadiaâ€“Kalaba approach. Nonlinear Dynamics, 2021, 105, 315-330.	5.2	12
22	A comparative study of the dynamics of a three-disk dynamo system with and without time delay. Applied Mathematics and Computation, 2021, 399, 126016.	2.2	3
23	Classification of transfer modes in gas metal arc welding using acoustic signal analysis. International Journal of Advanced Manufacturing Technology, 2021, 115, 3089-3104.	3.0	5
24	Theoretical and experimental study of surface texturing with laser machining. Advances in Manufacturing, 2021, 9, 538.	6.1	3
25	Intelligent Fault Diagnosis of a Reciprocating Compressor Using Mode Isolation Convolutional Deep Belief Networks. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1668-1677.	5.8	18
26	Investigation of Dynamic Load Sharing Behavior for Herringbone Planetary Gears considering Multicoupling Manufacturing Errors. Shock and Vibration, 2021, 2021, 1-15.	0.6	4
27	Global dynamics of a controlled discontinuous diffusive SIR epidemic system. Applied Mathematics Letters, 2021, 121, 107420.	2.7	35
28	Vibration control based metamaterials and origami structures: A state-of-the-art review. Mechanical Systems and Signal Processing, 2021, 161, 107945.	8.0	126
29	Bipartite Consensus Control for a Swarm of Robots. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2021, 143, .	1.6	5
30	Affine Combination of the Filtered-x LMS/F Algorithms for Active Control. , 2021, , 313-319.		2
31	Stochastic distribution synchronization and pinning control for complex heterogeneous dynamical networks. Asian Journal of Control, 2020, 22, 1547-1564.	3.0	2
32	Internal loads and contact pressure distributions on the main shaft bearing in a modern gearless wind turbine. Tribology International, 2020, 141, 105960.	5.9	39
33	Global dynamic behavior of a predatorâ€“prey model under ratio-dependent state impulsive control. Applied Mathematical Modelling, 2020, 77, 1842-1859.	4.2	25
34	Region-based flocking control for networked robotic systems with communication delays. European Journal of Control, 2020, 52, 78-86.	2.6	7
35	Semi-active noise control for a hermetic digital scroll compressor. Journal of Low Frequency Noise Vibration and Active Control, 2020, 39, 1204-1215.	2.9	8
36	Nonlinear vibrations of a slightly curved beam with nonlinear boundary conditions. International Journal of Mechanical Sciences, 2020, 168, 105294.	6.7	61

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37	An analytical solution of Reynolds equation for evaluating the characteristics of surface textured bearing. Industrial Lubrication and Tribology, 2020, 72, 1075-1085.	1.3	5
38	Dynamics of a controlled discontinuous computer worm system. Proceedings of the American Mathematical Society, 2020, 148, 4389-4403.	0.8	21
39	Weighted containment control for Lagrangian systems with heterogeneous interactions of cooperation and competition. International Journal of Control, 2020, , 1-11.	1.9	3
40	Development of a test equipment for rating front to rear-end collisions based on C-NCAP-2018. International Journal of Crashworthiness, 2020, , 1-11.	1.9	2
41	Periodic Oscillations in the Quorum-Sensing System with Time Delay. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050127.	1.7	2
42	Optimal design of multi-cellular cores for sandwich panels under harmonic excitation. Composite Structures, 2020, 248, 112507.	5.8	13
43	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.	1.6	10
44	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.	2.1	14
45	Implicit resonances in time-delayed nonlinear systems. , 2020, , 31-55.		0
46	The effects of bending moments on the dynamics of a wind turbine planetary gearbox. , 2020, , 321-359.		0
47	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.	5.0	56
48	Design of a quasi-zero stiffness isolation system for supporting different loads. Journal of Sound and Vibration, 2020, 471, 115198.	3.9	116
49	Reciprocating compressor fault diagnosis using an optimized convolutional deep belief network. JVC/Journal of Vibration and Control, 2020, 26, 1538-1548.	2.6	11
50	Novel two-parameter dynamics of impact oscillators near degenerate grazing points. International Journal of Non-Linear Mechanics, 2020, 120, 103403.	2.6	24
51	Bifurcations and dynamics of a plant disease system under non-smooth control strategy. Nonlinear Dynamics, 2020, 99, 3351-3371.	5.2	8
52	Practical consensus tracking control of multiple nonholonomic wheeled mobile robots in polar coordinates. International Journal of Robust and Nonlinear Control, 2020, 30, 3831-3847.	3.7	19
53	Group-Bipartite Consensus in the Networks With Cooperative-Competitive Interactions. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3292-3296.	3.0	14
54	Delay-induced novel dynamics in a hexagonal centrifugal governor system. International Journal of Non-Linear Mechanics, 2020, 121, 103465.	2.6	7

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55	Global dynamic behavior of a plant disease model with ratio dependent impulsive control strategy. Mathematics and Computers in Simulation, 2020, 177, 120-139.	4.4	15
56	Increase of quasi-zero stiffness region using two pairs of oblique springs. Mechanical Systems and Signal Processing, 2020, 144, 106975.	8.0	88
57	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.	0.9	4
58	Creation of Neimark-Sacker Bifurcation for a Three-Degree-of-Freedom Vibro-Impact System with Clearances. , 2020, , 107-115.		1
59	Application of Flexible Link Manipulators in Control Engineering Courses. , 2020, , .		1
60	Use of degeneration to stabilize near grazing periodic motion in impact oscillators. Communications in Nonlinear Science and Numerical Simulation, 2019, 66, 20-30.	3.3	10
61	Denoising identification for nonlinear systems with distorted streaming. International Journal of Non-Linear Mechanics, 2019, 117, 103224.	2.6	3
62	A Four-Stage Method for Active Control with Online Feedback Path Modelling Using Control Signal. Applied Sciences (Switzerland), 2019, 9, 2973.	2.5	0
63	Periodic solution and its stability of a delayed Beddingtonâ€DeAngelis type predatorâ€prey system with discontinuous control strategy. Mathematical Methods in the Applied Sciences, 2019, 42, 4498-4515.	2.3	31
64	Cooperative adaptive consensus tracking for multiple nonholonomic mobile robots. International Journal of Systems Science, 2019, 50, 1556-1567.	5.5	28
65	Degenerate grazing bifurcations in a three-degree-of-freedom impact oscillator. Nonlinear Dynamics, 2019, 97, 525-539.	5.2	17
66	Parameter identification of time-delayed nonlinear systems: An integrated method with adaptive noise correction. Journal of the Franklin Institute, 2019, 356, 5858-5880.	3.4	13
67	Complex near-grazing dynamics in impact oscillators. International Journal of Mechanical Sciences, 2019, 156, 106-122.	6.7	24
68	Multi-objective region reaching control for a swarm of robots. Automatica, 2019, 103, 81-87.	5.0	40
69	Oscillation induced by Hopf bifurcation in the p53â€“Mdm2 feedback module. IET Systems Biology, 2019, 13, 251-259.	1.5	5
70	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.	2.7	13
71	Nonlinear vibration isolation for fluid-conveying pipes using quasi-zero stiffness characteristics. Mechanical Systems and Signal Processing, 2019, 121, 675-688.	8.0	176
72	Control of flexible single-link manipulators having Duffing oscillator dynamics. Mechanical Systems and Signal Processing, 2019, 121, 44-57.	8.0	29

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73	Neural network-based region reaching formation control for multi-robot systems in obstacle environment. Neurocomputing, 2019, 333, 11-21.	5.9	39
74	Current, wave, wind and interaction induced dynamic response of a 5â€¯MW spar-type offshore direct-drive wind turbine. Engineering Structures, 2019, 178, 395-409.	5.3	33
75	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.	2.6	5
76	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.	2.1	4
77	Multistability in the Centrifugal Governor System Under a Time-Delay Control Strategy. Journal of Computational and Nonlinear Dynamics, 2019, 14, .	1.2	2
78	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	14
79	Group synchronization of coupled harmonic oscillators without velocity measurements. Nonlinear Dynamics, 2018, 91, 2773-2788.	5.2	17
80	Synchronization of Discretely Coupled Harmonic Oscillators Using Sampled Position States Only. IEEE Transactions on Automatic Control, 2018, 63, 3994-3999.	5.7	18
81	Modelling and tuning for a time-delayed vibration absorber with friction. Journal of Sound and Vibration, 2018, 424, 137-157.	3.9	25
82	The effect of the rotor adjustment on the vibration behaviour of the drive-train system for a 5â€‰MW direct-drive wind turbine. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 3027-3044.	2.1	9
83	Adaptive Region Tracking Control for Robot Manipulator Systems with Uncertain Kinematics and Dynamics. , 2018, , .		2
84	Cooperative Behavior of Networked Harmonic Oscillators with Delayed Sampled Position States. , 2018, , .		0
85	Neimark-Sacker Bifurcations Near Degenerate Grazing Point in a Two Degree-of-Freedom Impact Oscillator. Journal of Computational and Nonlinear Dynamics, 2018, 13, .	1.2	6
86	Natural Frequency Analysis of a Spar-Type Offshore Wind Turbine Tower With End Mass Components. Journal of Offshore Mechanics and Arctic Engineering, 2018, 140, .	1.2	4
87	Formation control with collision avoidance for uncertain networked Lagrangian systems via adaptive gain techniques. IET Control Theory and Applications, 2018, 12, 1393-1401.	2.1	11
88	Sampledâ€data control of coupled harmonic oscillators using measured position states only. IET Control Theory and Applications, 2018, 12, 985-991.	2.1	6
89	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	6
90	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.	8.0	13

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91	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
92	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.	1.0	5
93	Consensus of multiple Euler-Lagrange systems using one Euler-Lagrange Systemâ€™s velocity measurements. International Journal of Control, Automation and Systems, 2017, 15, 450-456.	2.7	7
94	Investigation & comparison of the integration of flywheel energy storage in hybrid electric and electric vehicles using bond graphs. , 2017, , .		3
95	Adaptive formation control of networked Lagrangian systems with a moving leader. Nonlinear Dynamics, 2017, 90, 2755-2766.	5.2	21
96	Dynamic Analysis of Wind Turbine Gearbox Components. Energies, 2016, 9, 110.	3.1	31
97	Boundary condition handling approaches for the model reduction of a vehicle frame. Mechanical Systems and Signal Processing, 2016, 75, 123-137.	8.0	6
98	Consensus of second-order multi-agent systems using partial agentsâ€™ velocity measurements. Nonlinear Dynamics, 2016, 86, 1927-1935.	5.2	13
99	Synchronization of networked multibody systems using fundamental equation of mechanics. Applied Mathematics and Mechanics (English Edition), 2016, 37, 555-572.	3.6	8
100	Tracking task-space synchronization of networked Lagrangian systems with switching topology. Nonlinear Dynamics, 2016, 83, 1673-1685.	5.2	12
101	Formation control of multiple Euler-Lagrange systems via null-space-based behavioral control. Science China Information Sciences, 2016, 59, 1-11.	4.3	53
102	Control of bridge cranes with distributed-mass payloads under windy conditions. Mechanical Systems and Signal Processing, 2016, 72-73, 409-419.	8.0	39
103	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.	1.7	26
104	Two families of super-harmonic resonances in a time-delayed nonlinear oscillator. Journal of Sound and Vibration, 2015, 349, 299-314.	3.9	19
105	Nonlinear torsional vibrations of a wind turbine gearbox. Applied Mathematical Modelling, 2015, 39, 4928-4950.	4.2	80
106	Adaptive group consensus in uncertain networked Eulerâ€“Lagrange systems under directed topology. Nonlinear Dynamics, 2015, 82, 1145-1157.	5.2	54
107	Design of a nonlinear vibration absorber using three-to-one internal resonances. Mechanical Systems and Signal Processing, 2014, 42, 236-246.	8.0	49
108	Secondary resonances of a quadratic nonlinear oscillator following two-to-one resonant Hopf bifurcations. Nonlinear Dynamics, 2014, 78, 2161-2184.	5.2	12

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109	On the critical forcing amplitude of forced nonlinear oscillators. Open Engineering, 2013, 3, .	1.6	1
110	Fast synchronization of directionally coupled chaotic systems. Applied Mathematical Modelling, 2013, 37, 127-136.	4.2	17
111	Second-order consensus of multiple non-identical agents with non-linear protocols. IET Control Theory and Applications, 2012, 6, 1319.	2.1	17
112	Formation mechanism in alloy steel rolling process using thermo-mechanical coupling method. Journal Wuhan University of Technology, Materials Science Edition, 2012, 27, 422-426.	1.0	0
113	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.	6.6	17
114	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.	2.1	0
115	Suppression of super-harmonic resonance response using a linear vibration absorber. Mechanics Research Communications, 2011, 38, 411-416.	1.8	15
116	Fluid Induced Vibration in the Liquid-Filled Hydraulic Circuit of Passive Interconnected Suspensions. , 2011, , .		0
117	Prediction of Process Parameters on Stress and Strain Fields in Hot Rolling Process using Finite Element Method. Information Technology Journal, 2011, 10, 2406-2412.	0.3	7
118	EFFECT OF PROCESS PARAMETERS ON MECHANICAL BEHAVIOR IN HOT-SLAB ROLLING. Mechanika, 2011, 17, .	0.5	2
119	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	67
120	Nonlinear response of a forced van der Polâ€“Duffing oscillator at non-resonant bifurcations of codimension two. Chaos, Solitons and Fractals, 2009, 41, 1467-1475.	5.1	17
121	Difference resonances in a controlled van der Pol-Duffing oscillator involving time delay. Chaos, Solitons and Fractals, 2009, 42, 975-980.	5.1	16
122	A new method for random vibration analysis of stochastic truss structures. Finite Elements in Analysis and Design, 2009, 45, 190-199.	3.2	32
123	Additive resonances of a controlled van der Polâ€“Duffing oscillator. Journal of Sound and Vibration, 2008, 315, 22-33.	3.9	17
124	Nonlinear Dynamics of Magnetic Bearing Systems. Journal of Intelligent Material Systems and Structures, 2008, 19, 1471-1491.	2.5	46
125	Stability and dynamics of a controlled van der Polâ€“Duffing oscillator. Chaos, Solitons and Fractals, 2006, 28, 555-570.	5.1	51
126	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.	2.6	14

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127	The response of a Duffingâ€“van der Pol oscillator under delayed feedback control. Journal of Sound and Vibration, 2006, 291, 644-655.	3.9	70
128	Nonresonant Hopf bifurcations of a controlled van der Polâ€“Duffing oscillator. Journal of Sound and Vibration, 2006, 297, 183-199.	3.9	34
129	Dynamics of two delay coupled van der Pol oscillators. Mechanics Research Communications, 2006, 33, 614-627.	1.8	26
130	On the approximate solution of a piecewise nonlinear oscillator under super-harmonic resonance. Journal of Sound and Vibration, 2005, 283, 467-474.	3.9	19
131	Forced phase-locked response of a nonlinear system with time delay after Hopf bifurcation. Chaos, Solitons and Fractals, 2005, 25, 461-473.	5.1	11
132	Dynamics of a piecewise linear system subjected to a saturation constraint. Journal of Sound and Vibration, 2004, 271, 905-920.	3.9	9
133	Periodic and chaotic motions of a harmonically forced piecewise linear system. International Journal of Mechanical Sciences, 2004, 46, 1807-1825.	6.7	12
134	Analytical approximation of the primary resonance response of a periodically excited piecewise non-linearâ€“linear oscillator. Journal of Sound and Vibration, 2004, 278, 327-342.	3.9	10
135	Approximate solutions and chaotic motions of a piecewise nonlinearâ€“linear oscillator. Chaos, Solitons and Fractals, 2004, 20, 1121-1133.	5.1	11
136	STABILITY AND HOPF BIFURCATION OF A MAGNETIC BEARING SYSTEM WITH TIME DELAYS. Journal of Sound and Vibration, 2003, 259, 845-856.	3.9	43
137	Non-linear oscillations of a rotor-magnetic bearing system under superharmonic resonance conditions. International Journal of Non-Linear Mechanics, 2003, 38, 829-835.	2.6	67
138	Dynamics of a Jeffcott rotor-magnetic bearing system with time delays. International Journal of Non-Linear Mechanics, 2003, 38, 1387-1401.	2.6	34
139	Stability and bifurcation in an electromechanical system with time delays. Mechanics Research Communications, 2003, 30, 217-225.	1.8	23
140	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	53
141	On an output feedback finite-time stabilization problem. IEEE Transactions on Automatic Control, 2001, 46, 305-309.	5.7	603
142	Observation of dependence of the nonlinear response on initial conditions in a two-DOF mechanical structure. Mechanics Research Communications, 2001, 28, 543-550.	1.8	0
143	NON-LINEAR OSCILLATIONS OF A ROTOR IN ACTIVE MAGNETIC BEARINGS. Journal of Sound and Vibration, 2001, 240, 599-612.	3.9	91
144	BIFURCATION BEHAVIOR OF A ROTOR SUPPORTED BY ACTIVE MAGNETIC BEARINGS. Journal of Sound and Vibration, 2000, 235, 133-151.	3.9	69

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145	Drop Dynamics of a High-Speed Unbalanced Rotor in Active Magnetic Bearing Machinery*. Mechanics Based Design of Structures and Machines, 2000, 28, 185-200.	0.6	5
146	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.	1.8	3
147	Fully Distributed Region-Reaching Control with Collision Avoidance for Multi-robot Systems. Robotica, 0, , 1-12.	1.9	1