Jianhua Yang

List of Publications by Year
in descending order

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117	1,694	304743	377865
papers	citations	22 h-index	34 g-index

121	121	121	723
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Improving the bearing fault diagnosis efficiency by the adaptive stochastic resonance in a new nonlinear system. Mechanical Systems and Signal Processing, 2017, 96, 58-76.	8.0	80
2	Controlling vibrational resonance in a multistable system by time delay. Chaos, 2010, 20, 033124.	2.5	78
3	Stochastic P-bifurcation and stochastic resonance in a noisy bistable fractional-order system. Communications in Nonlinear Science and Numerical Simulation, 2016, 41, 104-117.	3.3	76
4	Vibrational resonance in Duffing systems with fractional-order damping. Chaos, 2012, 22, 013112.	2.5	68
5	Delay induces quasi-periodic vibrational resonance. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 122001.	2.1	60
6	Unknown fault feature extraction of rolling bearings under variable speed conditions based on statistical complexity measures. Mechanical Systems and Signal Processing, 2022, 172, 108964.	8.0	60
7	Novel Adaptive Search Method for Bearing Fault Frequency Using Stochastic Resonance Quantified by Amplitude-Domain Index. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 109-121.	4.7	52
8	Detecting the weak high-frequency character signal by vibrational resonance in the Duffing oscillator. Nonlinear Dynamics, 2017, 89, 2621-2628.	5.2	46
9	Bifurcation and resonance induced by fractional-order damping and time delay feedback in a Duffing system. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 1316-1326.	3.3	39
10	Delay-induced vibrational multiresonance in FitzHughâ€“Nagumo system. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 1031-1035.	3.3	36
11	Optimal IMF selection and unknown fault feature extraction for rolling bearings with different defect modes. Measurement: Journal of the International Measurement Confederation, 2020, 157, 107660.	5.0	35
12	Controlling vibrational resonance in a delayed multistable system driven by an amplitude-modulated signal. Physica Scripta, 2010, 82, 025006.	2.5	34
13	Vibrational subharmonic and superharmonic resonances. Communications in Nonlinear Science and Numerical Simulation, 2016, 30, 362-372.	3.3	32
14	An improved adaptive stochastic resonance method for improving the efficiency of bearing faults diagnosis. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 2352-2368.	2.1	31
15	Recovering an unknown signal completely submerged in strong noise by a new stochastic resonance method. Communications in Nonlinear Science and Numerical Simulation, 2019, 66, 156-166.	3.3	31
16	Influence of surface roughness on the friction property of textured surface. Advances in Mechanical Engineering, 2015, 7, 168781401456850.	1.6	28
17	Self-similarity and adaptive aperiodic stochastic resonance in a fractional-order system. Nonlinear Dynamics, 2018, 91, 1697-1711.	5.2	27
18	Delay-improved signal propagation in globally coupled bistable systems. Physica Scripta, 2011, 83, 065008.	2.5	26

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19	Chaotic characteristics of measured temperatures during sliding friction. Wear, 2014, 317, 17-25.	3.1	26
20	Extraction and enhancement of unknown bearing fault feature in the strong noise under variable speed condition. Measurement Science and Technology, 2021, 32, 105021.	2.6	24
21	Optimizing the Adaptive Stochastic Resonance and Its Application in Fault Diagnosis. Fluctuation and Noise Letters, 2015, 14, 1550038.	1.5	23
22	Experimental application of vibrational resonance on bearing fault diagnosis. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	23
23	Adaptive stochastic resonance in bistable system driven by noisy NLFM signal: phenomenon and application. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200239.	3.4	23
24	Bifurcation and resonance in a fractional Mathieu-Duffing oscillator. European Physical Journal B, 2015, 88, 1.	1.5	22
25	Realizing the empirical mode decomposition by the adaptive stochastic resonance in a new periodical model and its application in bearing fault diagnosis. Journal of Mechanical Science and Technology, 2017, 31, 4599-4610.	1.5	22
26	On bearing fault diagnosis by nonlinear system resonance. Nonlinear Dynamics, 2019, 98, 2035-2052.	5.2	22
27	Noise-induced resonance at the subharmonic frequency in bistable systems. Nonlinear Dynamics, 2017, 87, 1721-1730.	5.2	21
28	Adaptive Stochastic Resonance in Second-Order System with General Scale Transformation for Weak Feature Extraction and Its Application in Bearing Fault Diagnosis. Fluctuation and Noise Letters, 2018, 17, 1850009.	1.5	20
29	Improving the weak aperiodic signal by three kinds of vibrational resonance. Nonlinear Dynamics, 2018, 91, 2699-2713.	5.2	20
30	Vibrational resonance in the FitzHughâ€“Nagumo system with time-varying delay feedback. Computers in Biology and Medicine, 2014, 45, 80-86.	7.0	19
31	Logical stochastic resonance in a nonlinear fractional-order system. European Physical Journal Plus, 2020, 135, 1.	2.6	18
32	Enhancing the Weak Signal With Arbitrary High-Frequency by Vibrational Resonance in Fractional-Order Duffing Oscillators. Journal of Computational and Nonlinear Dynamics, 2017, 12, .	1.2	17
33	An improved adaptive stochastic resonance with general scale transformation to extract high-frequency characteristics in strong noise. International Journal of Modern Physics B, 2018, 32, 1850185.	2.0	17
34	Unknown bearing fault diagnosis under time-varying speed conditions and strong noise background. Nonlinear Dynamics, 2022, 107, 2177-2193.	5.2	17
35	Concept and Evaluation of a New Piezoelectric Transducer for an Implantable Middle Ear Hearing Device. Sensors, 2017, 17, 2515.	3.8	16
36	Time-frequency analysis of a new aperiodic resonance. Communications in Nonlinear Science and Numerical Simulation, 2020, 85, 105258.	3.3	15

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37	Distinguish coherence resonance and stochastic resonance in bearing fault evaluation. Measurement Science and Technology, 2020, 31, 045001.	2.6	14
38	On the LFM signal improvement by piecewise vibrational resonance using a new spectral amplification factor. IET Signal Processing, 2019, 13, 65-69.	1.5	14
39	Pitchfork bifurcation and vibrational resonance in a fractional-order Duffing oscillator. Pramana - Journal of Physics, 2013, 81, 943-957.	1.8	13
40	Signal generation and enhancement in a delayed system. Communications in Nonlinear Science and Numerical Simulation, 2015, 22, 1158-1168.	3.3	13
41	Estimation of fractal dimension and surface roughness based on material characteristics and cutting conditions in the end milling of carbon steels. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2017, 231, 1423-1437.	2.4	13
42	Stochastic resonance in an asymmetric bistable system driven by coloured noises. Chinese Physics B, 2010, 19, 050504.	1.4	12
43	Bifurcation Transition and Nonlinear Response in a Fractional-Order System. Journal of Computational and Nonlinear Dynamics, 2015, 10, .	1.2	12
44	Non-stationary feature extraction by the stochastic response of coupled oscillators and its application in bearing fault diagnosis under variable speed condition. Nonlinear Dynamics, 2022, 108, 3839-3857.	5.2	12
45	Saddle-Node Bifurcation and Vibrational Resonance in a Fractional System with an Asymmetric Bistable Potential. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550023.	1.7	11
46	THE THREE-POINT SINUOSITY METHOD FOR CALCULATING THE FRACTAL DIMENSION OF MACHINED SURFACE PROFILE. Fractals, 2015, 23, 1550016.	3.7	11
47	Feature extraction under bounded noise background and its application in low speed bearing fault diagnosis. Journal of Mechanical Science and Technology, 2019, 33, 3193-3204.	1.5	11
48	Influence of ossicular chain malformation on the performance of round-window stimulation: A finite element approach. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2019, 233, 584-594.	1.8	11
49	Adaptive piecewise re-scaled stochastic resonance excited by the LFM signal. European Physical Journal Plus, 2020, 135, 1.	2.6	11
50	Improving the weak feature extraction by adaptive stochastic resonance in cascaded piecewise-linear system and its application in bearing fault detection. Journal of Vibroengineering, 2017, 19, 2506-2520.	1.0	11
51	Stochastic resonance in overdamped systems with fractional power nonlinearity. European Physical Journal Plus, 2017, 132, 1.	2.6	10
52	Vibrational Resonance in an Overdamped System with a Fractional Order Potential Nonlinearity. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1850082.	1.7	10
53	Stochastic resonance in an overdamped system with a fractional power nonlinearity: Analytical and re-scaled analysis. European Physical Journal Plus, 2019, 134, 1.	2.6	10
54	Weak signal enhancement by fractional-order system resonance and its application in bearing fault diagnosis. Measurement Science and Technology, 2019, 30, 035004.	2.6	10

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55	Effect of stimulation sites on the performance of electromagnetic middle ear implant: A finite element analysis. Computers in Biology and Medicine, 2020, 124, 103918.	7.0	10
56	The role of third windows on human sound transmission of forward and reverse stimulations: A lumped-parameter approach. Journal of the Acoustical Society of America, 2020, 147, 1478-1490.	1.1	10
57	Coal gangue recognition using multichannel auditory spectrogram of hydraulic support sound in convolutional neural network. Measurement Science and Technology, 2022, 33, 015107.	2.6	10
58	Adaptive denoising for strong noisy images by using positive effects of noise. European Physical Journal Plus, 2021, 136, 1.	2.6	9
59	Realising the decomposition of a multiâ€frequency signal under the coloured noise background by the adaptive stochastic resonance in the nonâ€linear system with periodic potential. IET Signal Processing, 2018, 12, 930-936.	1.5	9
60	Transducer Type and Design Influence on the Hearing Loss Compensation Behaviour of the Electromagnetic Middle Ear Implant in a Finite Element Analysis. Advances in Mechanical Engineering, 2014, 6, 867108.	1.6	9
61	Analysis of periodic vibrational resonance induced by linear time delay feedback. Wuli Xuebao/Acta Physica Sinica, 2012, 61, 010505.	0.5	9
62	The effect of actuator and its coupling conditions on eardrum-stimulated middle ear implants: A numerical analysis. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2016, 230, 1074-1085.	1.8	8
63	Effects of the colored noise on the resonance at the subharmonic frequency in bistable systems. Chinese Journal of Physics, 2017, 55, 989-995.	3.9	8
64	Improving the Stochastic Resonance in a Bistable System with the Bounded Noise Excitation. Journal of Statistical Physics, 2018, 173, 1688-1697.	1.2	8
65	Improving amplitude-modulated signals by re-scaled and twice sampling vibrational resonance methods. Pramana - Journal of Physics, 2018, 91, 1.	1.8	8
66	Modeling the effect of cochlear windows activity on reverse stimulation under the role of physiological third windows. Applied Acoustics, 2020, 169, 107473.	3.3	8
67	Vibrational Resonance in Fractional-Order Anharmonic Oscillators. Chinese Physics Letters, 2012, 29, 104501.	3.3	7
68	Fractional damping enhances chaos in the nonlinear Helmholtz oscillator. Nonlinear Dynamics, 2020, 102, 2323-2337.	5.2	7
69	The response property of one kind of factional-order linear system excited by different periodical signals. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 024501.	0.5	7
70	The maximal Lyapunov exponent for a three-dimensional system driven by white noise. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 3498-3506.	3.3	6
71	Natural frequency analysis and experiment for 3SPS+1PS parallel hip joint manipulator based on rigid-flexible coupling theory. Journal of Mechanical Science and Technology, 2017, 31, 1447-1462.	1.5	6
72	Amplification of the LFM signal by using piecewise vibrational methods. JVC/Journal of Vibration and Control, 2019, 25, 141-150.	2.6	6

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73	Effects of Different Fast Periodic Excitations on the Pitchfork Bifurcation and Vibrational Resonance. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050092.	1.7	6
74	Stochastic resonance induced by an unknown linear frequency modulated signal in a strong noise background. Chaos, 2020, 30, 043128.	2.5	6
75	The echo chirp signal amplification by the vibrational information fusion method. International Journal of Modern Physics B, 2020, 34, 2050041.	2.0	6
76	Improved SNR to detect the unknown characteristic frequency by SR. IET Science, Measurement and Technology, 2018, 12, 795-801.	1.6	6
77	The mean first-passage time for a cancer development system driven by colored cross-correlated noises. Wuli Xuebao/Acta Physica Sinica, 2010, 59, 3727.	0.5	6
78	Adaptive Stochastic Resonance for Bolt Looseness Identification Under Strong Noise Background. Journal of Computational and Nonlinear Dynamics, 2022, 17, .	1.2	6
79	A novel adaptive moving average method for signal denoising in strong noise background. European Physical Journal Plus, 2022, 137, 1.	2.6	6
80	Stochastic resonance in image denoising as an alternative to traditional methods and deep learning. Nonlinear Dynamics, 2022, 109, 2163-2183.	5.2	6
81	Is the High-Frequency Signal Necessary for the Resonance in the Delayed System?. Chinese Physics Letters, 2015, 32, 010501.	3.3	5
82	Numerical Study and Optimization of a Novel Piezoelectric Transducer for a Round-Window Stimulating Type Middle-Ear Implant. Micromachines, 2019, 10, 40.	2.9	5
83	Research on coupling effects of actuator and round window membrane on reverse stimulation of human cochlea. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2021, 235, 447-458.	1.8	5
84	Design and analysis of a flextensional piezoelectric actuator for incus-body driving type middle ear implant. Journal of Vibroengineering, 2017, 19, 3842-3854.	1.0	5
85	The pitchfork bifurcation and vibrational resonance in a quintic oscillator. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 180503.	0.5	5
86	Effect of Static Bifurcation on Logical Stochastic Resonance in a Symmetric Bistable System. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, .	1.7	5
87	On the Weak Signal Amplification by Twice Sampling Vibrational Resonance Method in Fractional Duffing Oscillators. Journal of Computational and Nonlinear Dynamics, 2018, 13, .	1.2	4
88	The Influence of Piezoelectric Transducer Stimulating Sites on the Performance of Implantable Middle Ear Hearing Devices: A Numerical Analysis. Micromachines, 2019, 10, 782.	2.9	4
89	Influence of Poisson White Noise on the Response Statistics of Nonlinear System and Its Applications to Bearing Fault Diagnosis. Journal of Computational and Nonlinear Dynamics, 2019, 14, .	1.2	4
90	Stochastic Resonance and Self-Induced Stochastic Resonance in Bearing Fault Diagnosis. Fluctuation and Noise Letters, 2021, 20, .	1.5	4

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91	Fault diagnosis of rolling bearing under time-varying speed conditions based on EfficientNetv2. Measurement Science and Technology, 2022, 33, 065023.	2.6	4
92	THE COHERENCE RESONANCE IN VAN DER POL SYSTEM INDUCED BY NOISE RECYCLING. Fluctuation and Noise Letters, 2012, 11, 1250002.	1.5	3
93	Moment Lyapunov exponent of three-dimensional system under bounded noise excitation. Applied Mathematics and Mechanics (English Edition), 2012, 33, 553-566.	3.6	3
94	THE EFFECT OF IMPLANTABLE TRANSDUCERS ON MIDDLE EAR TRANSFER FUNCTION â€" A COMPARATIVE NUMERICAL ANALYSIS. Journal of Mechanics in Medicine and Biology, 2016, 16, 1650040.	0.7	3
95	Improvement in the stochastic resonance in the Duffing oscillator subjected to a Poisson white noise excitation. European Physical Journal Plus, 2021, 136, 1.	2.6	3
96	Analysis of the influence of the transducer and its coupling layer on round window stimulation. Acta of Bioengineering and Biomechanics, 2017, 19, 103-111.	0.4	3
97	Periodic analysis on gas path fault diagnosis of gas turbines. ISA Transactions, 2022, 129, 429-441.	5.7	3
98	Extracting non-stationary signal under strong noise background: Time-varying system analysis. JVC/Journal of Vibration and Control, 2023, 29, 4036-4045.	2.6	3
99	On stationary probability density and maximal Lyapunov exponent of a co-dimension two bifurcation system subjected to parametric excitation by real noise. International Journal of Non-Linear Mechanics, 2011, 46, 186-196.	2.6	2
100	Speech enhancement based on noise classification and deep neural network. Modern Physics Letters B, 2019, 33, 1950188.	1.9	2
101	Linear frequency modulated signal induced aperiodic resonance. Physica Scripta, 2020, 95, 065213.	2.5	2
102	A periodic vibrational resonance in the fractional-order bistable system. Wuli Xuebao/Acta Physica Sinica, 2018, 67, 054501.	0.5	2
103	Response property of a factional linear system under the base excitation. Wuli Xuebao/Acta Physica Sinica, 2016, 65, 084501.	0.5	2
104	Vibrational resonance by using a real-time scale transformation method. Physica Scripta, 2022, 97, 045207.	2.5	2
105	Bifurcation and stability analysis for 3SPS+1PS parallel hip joint manipulator based on unified theory. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 4603-4616.	2.1	1
106	Different fast excitations on the improvement of stochastic resonance in bounded noise excited system. International Journal of Modern Physics B, 2020, 34, 2050238.	2.0	1
107	Extracting weak multi-frequency signal in heavy colored noise. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	1
108	On the Aperiodic Signal Amplification by Rescaled Vibrational Resonance in Fractional-Order Duffing Oscillators. Journal of Computational and Nonlinear Dynamics, 2020, 15, .	1.2	1

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109	Influence of middle ear disorder in round-window stimulation using a finite element human ear model. Acta of Bioengineering and Biomechanics, 2019, 21, 3-12.	0.4	1
110	Numerical analysis of the effects of ossicular chain malformations on bone conduction stimulation. Computer Methods in Biomechanics and Biomedical Engineering, 2021, 24, 817-830.	1.6	0
111	Effect of ossicular chain deformity on reverse stimulation considering the overflow characteristics of third windows. Computer Methods in Biomechanics and Biomedical Engineering, 2021, , 1-16.	1.6	0
112	Rolling Bearing Fault Diagnosis by Aperiodic Stochastic Resonance Under Variable Speed Conditions. Fluctuation and Noise Letters, 0, , .	1.5	0
113	The mean extinction time and stability for a metapopulation system driven by colored cross-correlated noises. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 100502.	0.5	0
114	A biomechanical study of the dynamic behavior of the organ of Corti: effect of stimulation type on shear gain. , 2014, , .		0
115	Analysis of design parameters of round-window stimulating type electromagnetic transducer by a nonlinear lumped parameter model of implanted human ear. Mathematical Biosciences and Engineering, 2022, 19, 2453-2470.	1.9	0
116	Effects of design and coupling parameters on the performance of electromagnetic transducers in round-window stimulation. Journal of the Acoustical Society of America, 2022, 151, 609-619.	1.1	0
117	Rolling Bearing Damage Evaluation by the Dynamic Process From Self-Induced Resonance to System Resonance of a Duffing System. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2022, , .	1.1	0