Yong-Jun Shen

List of Publications by Year
in descending order

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61 papers	1,267 citations	430874 18 h-index	377865 34 g-index
62 all docs	62 docs citations	62 times ranked	663 citing authors

#	Article	IF	Citations
1	Nonlinear dynamics of a spur gear pair with time-varying stiffness and backlash based on incremental harmonic balance method. International Journal of Mechanical Sciences, 2006, 48, 1256-1263.	6.7	146
2	Primary resonance of Duffing oscillator with fractional-order derivative. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 3092-3100.	3.3	125
3	Analytically optimal parameters of dynamic vibration absorber with negative stiffness. Mechanical Systems and Signal Processing, 2017, 85, 193-203.	8.0	106
4	Primary resonance of Duffing oscillator with two kinds of fractional-order derivatives. International Journal of Non-Linear Mechanics, 2012, 47, 975-983.	2.6	88
5	Primary resonance of fractional-order van der Pol oscillator. Nonlinear Dynamics, 2014, 77, 1629-1642.	5.2	63
6	Parameters optimization for a novel dynamic vibration absorber. Mechanical Systems and Signal Processing, 2019, 133, 106282.	8.0	54
7	Parameters optimization and performance evaluation for the novel inerter-based dynamic vibration absorbers with negative stiffness. Journal of Sound and Vibration, 2019, 463, 114941.	3.9	50
8	Analysis on limit cycle of fractional-order van der Pol oscillator. Chaos, Solitons and Fractals, 2014, 67, 94-102.	5.1	49
9	Dynamical analysis of fractional-order nonlinear oscillator by incremental harmonic balance method. Nonlinear Dynamics, 2016, 85, 1457-1467.	5.2	45
10	Nonlinear dynamical analysis and parameters optimization of four semi-active on-off dynamic vibration absorbers. JVC/Journal of Vibration and Control, 2013, 19, 143-160.	2.6	41
11	Cross-Domain Open-Set Machinery Fault Diagnosis Based on Adversarial Network With Multiple Auxiliary Classifiers. IEEE Transactions on Industrial Informatics, 2022, 18, 8077-8086.	11.3	36
12	Chaos detection of Duffing system with fractional-order derivative by Melnikov method. Chaos, 2019, 29, 123106.	2.5	32
13	Dynamical response of Mathieuâ€“Duffing oscillator with fractional-order delayed feedback. Chaos, Solitons and Fractals, 2017, 94, 54-62.	5.1	26
14	Analysis and Optimization of the Novel Inerter-Based Dynamic Vibration Absorbers. IEEE Access, 2018, 6, 33169-33182.	4.2	26
15	Recent advances in dynamics and control of hysteretic nonlinear systems. Chaos, Solitons and Fractals, 2009, 40, 1808-1822.	5.1	24
16	Parameters Optimization for a Kind of Dynamic Vibration Absorber with Negative Stiffness. Mathematical Problems in Engineering, 2016, 2016, 1-10.	1.1	24
17	Nonlinear Dynamical Analysis on Four Semi-Active Dynamic Vibration Absorbers with Time Delay. Shock and Vibration, 2013, 20, 649-663.	0.6	22
18	Primary and subharmonic simultaneous resonance of fractional-order Duffing oscillator. Nonlinear Dynamics, 2020, 102, 1485-1497.	5.2	22

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19	Optimal control and parameters design for the fractional-order vehicle suspension system. Journal of Low Frequency Noise Vibration and Active Control, 2018, 37, 456-467.	2.9	20
20	Analysis of Duffing oscillator with time-delayed fractional-order PID controller. International Journal of Non-Linear Mechanics, 2017, 92, 66-75.	2.6	17
21	Dynamical analysis of Mathieu equation with two kinds of van der Pol fractional-order terms. International Journal of Non-Linear Mechanics, 2016, 84, 130-138.	2.6	16
22	Stability and bifurcation analysis of single-degree-of-freedom linear vibro-impact system with fractional-order derivative. Chaos, Solitons and Fractals, 2019, 123, 14-23.	5.1	16
23	Analytical threshold for chaos in a Duffing oscillator with delayed feedbacks. International Journal of Non-Linear Mechanics, 2018, 98, 173-179.	2.6	15
24	Higher-order approximate steady-state solutions for strongly nonlinear systems by the improved incremental harmonic balance method. JVC/Journal of Vibration and Control, 2018, 24, 3744-3757.	2.6	14
25	Dynamic analysis and vibration control of nonlinear boring bar with fractional-order model of magnetorheological fluid. International Journal of Non-Linear Mechanics, 2020, 121, 103459.	2.6	14
26	Analytical research on a single degree-of-freedom semi-active oscillator with time delay. JVC/Journal of Vibration and Control, 2013, 19, 1895-1905.	2.6	12
27	Dynamical analysis of strongly nonlinear fractional-order Mathieu-Duffing equation. Chaos, 2016, 26, 084309.	2.5	12
28	Detection and identification of cutting chatter based on improved variational nonlinear chirp mode decomposition. International Journal of Advanced Manufacturing Technology, 2019, 104, 2567-2578.	3.0	12
29	New periodic-chaotic attractors in slow-fast Duffing system with periodic parametric excitation. Scientific Reports, 2019, 9, 11185.	3.3	10
30	Parameters optimization of dynamic vibration absorber based on grounded stiffness, inerter, and amplifying mechanism. JVC/Journal of Vibration and Control, 2022, 28, 3767-3779.	2.6	10
31	Improved method for detecting weak abrupt information based on permutation entropy. Advances in Mechanical Engineering, 2017, 9, 168781401668666.	1.6	9
32	Forced vibration of two-degrees-of-freedom machine tool feed system with clearance and friction. Applied Mathematical Modelling, 2021, 92, 281-296.	4.2	9
33	Design and dynamic analysis of integrated architecture for vibration energy harvesting including piezoelectric frame and mechanical amplifier. Applied Mathematics and Mechanics (English Edition), 2021, 42, 755.	3.6	9
34	An Electro-Mechanical Coupling Model of Magnetorheological Damper. International Journal of Nonlinear Sciences and Numerical Simulation, 2005, 6, .	1.0	7
35	Subharmonic Resonance of Van Der Pol Oscillator with Fractional-Order Derivative. Mathematical Problems in Engineering, 2014, 2014, 1-17.	1.1	7
36	Optimization and analysis of a grounded type dynamic vibration absorber with lever component. Science Progress, 2020, 103, 003685042095988.	1.9	7

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37	Stability and bifurcation analysis of two-degrees-of-freedom vibro-impact system with fractional-order derivative. International Journal of Non-Linear Mechanics, 2020, 126, 103570.	2.6	7
38	Dynamic response of a piecewise linear single-degree-of-freedom oscillator with fractional-order derivative. Journal of Low Frequency Noise Vibration and Active Control, 2021, 40, 72-83.	2.9	6
39	Primary Resonance of Dry-Friction Oscillator With Fractional-Order Proportional-Integral-Derivative Controller of Velocity Feedback. Journal of Computational and Nonlinear Dynamics, 2016, 11, .	1.2	5
40	Dynamical analysis of a single degree-of-freedom impact oscillator with impulse excitation. Advances in Mechanical Engineering, 2017, 9, 168781401771661.	1.6	5
41	Approximate analytical solution in slow-fast system based on modified multi-scale method. Applied Mathematics and Mechanics (English Edition), 2020, 41, 605-622.	3.6	5
42	Analytically optimal parameters of fractional-order dynamic vibration absorber. Journal of Vibroengineering, 2016, 18, 2714-2734.	1.0	5
43	Slow-fast effect and generation mechanism of brusselator based on coordinate transformation. Open Physics, 2016, 14, 261-268.	1.7	4
44	Dynamic analysis and vibration control of two-degree-of-freedom boring bar with fractional-order model of magnetorheological fluid. JVC/Journal of Vibration and Control, 2022, 28, 3001-3018.	2.6	4
45	Application of Magnetorheological Damper in Vibration Control of Locomotive. , 2006, , .		3
46	Subharmonic resonance of single-degree-of-freedom piecewise-smooth nonlinear oscillator. Acta Mechanica Sinica/Lixue Xuebao, 2020, 36, 1109-1118.	3.4	3
47	Cluster oscillation and bifurcation of fractional-order Duffing system with two time scales. Acta Mechanica Sinica/Lixue Xuebao, 2020, 36, 926-932.	3.4	3
48	Chaos threshold analysis of Duffing oscillator with fractional-order delayed feedback control. European Physical Journal: Special Topics, 0, , 1.	2.6	3
49	Vibration control of primary and subharmonic simultaneous resonance of nonlinear system with fractional-order Bingham model. International Journal of Non-Linear Mechanics, 2022, 141, 103947.	2.6	3
50	A piecewise negative stiffness mechanism and its application in dynamic vibration absorber. International Journal of Mechanical System Dynamics, 2021, 1, 173-181.	2.8	3
51	Dynamical Analysis on Single Degree-of-Freedom Semiactive Control System by Using Fractional-Order Derivative. Mathematical Problems in Engineering, 2015, 2015, 1-13.	1.1	2
52	Optimal design for fractional-order active isolation system. Advances in Mechanical Engineering, 2015, 7, 168781401562259.	1.6	2
53	H_{â^ž} optimization of Maxwell dynamic vibration absorber with multiple negative stiffness springs. Journal of Low Frequency Noise Vibration and Active Control, 2021, 40, 1558-1570.	2.9	2
54	Parameter optimization of a grounded dynamic vibration absorber with lever and inerter. Journal of Low Frequency Noise Vibration and Active Control, 0, , 146134842110682.	2.9	2

#	Article	IF	Citations
55	Effect of interpolation methods on fast computation of fractional fourier transform. , 0, , .		1
56	Bifurcation and stability analysis of commensurate fractional-order van der Pol oscillator with time-delayed feedback. Indian Journal of Physics, 2020, 94, 1615-1624.	1.8	1
57	Bifurcation study on fractional non-smooth oscillator containing clearance constraints. Journal of Low Frequency Noise Vibration and Active Control, 2020, , 146134842096095.	2.9	1
58	Primary Resonance of Computer Numerical Control Worktable with Clearance and Friction. Journal of Computational and Nonlinear Dynamics, 2020, , .	1.2	1
59	Cluster Oscillation of a Fractional-Order Duffing System with Slow Variable Parameter Excitation. Fractal and Fractional, 2022, 6, 295.	3.3	1
60	Dynamic Characteristics of a Variable Damping Isolator with Translating Cam. Shock and Vibration, 2022, 2022, 1-9.	0.6	0
61	Chaotic Threshold of a Nonlinear Zener Systems Based on the Melnikov Method. Mathematical Problems in Engineering, 2022, 2022, 1-10.	1.1	0