

# Xiuchang Huang

## List of Publications by Year in descending order

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45  
papers

1,495  
citations

430874

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46  
docs citations

46  
times ranked

724  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the characteristics of a quasi-zero stiffness isolator using Euler buckled beam as negative stiffness corrector. <i>Journal of Sound and Vibration</i> , 2013, 332, 3359-3376.	3.9	289
2	Vibration isolation characteristics of a nonlinear isolator using Euler buckled beam as negative stiffness corrector: A theoretical and experimental study. <i>Journal of Sound and Vibration</i> , 2014, 333, 1132-1148.	3.9	273
3	Effect of the system imperfections on the dynamic response of a high-static-low-dynamic stiffness vibration isolator. <i>Nonlinear Dynamics</i> , 2014, 76, 1157-1167.	5.2	71
4	Vibration and flutter analysis of supersonic porous functionally graded material plates with temperature gradient and resting on elastic foundation. <i>Composite Structures</i> , 2018, 204, 63-79.	5.8	69
5	Shock isolation performance of a nonlinear isolator using Euler buckled beam as negative stiffness corrector: Theoretical and experimental study. <i>Journal of Sound and Vibration</i> , 2015, 345, 178-196.	3.9	61
6	Application of a dynamic vibration absorber with negative stiffness for control of a marine shafting system. <i>Ocean Engineering</i> , 2018, 155, 131-143.	4.3	55
7	Effects of stiffness and load imperfection on the isolation performance of a high-static-low-dynamic-stiffness non-linear isolator under base displacement excitation. <i>International Journal of Non-Linear Mechanics</i> , 2014, 65, 32-43.	2.6	52
8	Stability and transient dynamics of a propellerâ€“shaft system as induced by nonlinear friction acting on bearingâ€“shaft contact interface. <i>Journal of Sound and Vibration</i> , 2014, 333, 2608-2630.	3.9	50
9	Study on the force transmissibility of vibration isolators with geometric nonlinear damping. <i>Nonlinear Dynamics</i> , 2013, 74, 1103-1112.	5.2	47
10	On the transverse vibration of Timoshenko double-beam systems coupled with various discontinuities. <i>International Journal of Mechanical Sciences</i> , 2014, 89, 222-241.	6.7	42
11	Vibration and sound radiation analysis of temperature-dependent porous functionally graded material plates with general boundary conditions. <i>Applied Acoustics</i> , 2019, 154, 236-250.	3.3	39
12	Stationary/nonstationary stochastic response analysis of composite laminated plates with aerodynamic and thermal loads. <i>International Journal of Mechanical Sciences</i> , 2020, 173, 105461.	6.7	35
13	Aero-thermo-elastic flutter analysis of coupled plate structures in supersonic flow with general boundary conditions. <i>Journal of Sound and Vibration</i> , 2018, 430, 36-58.	3.9	33
14	On the characteristics of an ultra-low frequency nonlinear isolator using sliding beam as negative stiffness. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 813-822.	1.5	32
15	Design and optimization of periodic structure mechanical filter in suppression of foundation resonances. <i>Journal of Sound and Vibration</i> , 2011, 330, 4689-4712.	3.9	25
16	The isolation performance of vibration systems with general velocity-displacement-dependent nonlinear damping under base excitation: numerical and experimental study. <i>Nonlinear Dynamics</i> , 2016, 85, 777-796.	5.2	23
17	Structural vibration absorption in multilayered sandwich structures using negative stiffness nonlinear oscillators. <i>Applied Acoustics</i> , 2021, 182, 108240.	3.3	23
18	Optimal parameters for dynamic vibration absorber with negative stiffness in controlling force transmission to a rigid foundation. <i>International Journal of Mechanical Sciences</i> , 2019, 152, 88-98.	6.7	22

#	ARTICLE	IF	CITATIONS
19	Performance of a zero stiffness isolator under shock excitations. JVC/Journal of Vibration and Control, 2014, 20, 2090-2099.	2.6	20
20	A study on the isolation performance of trichiral lattices with gradient geometry. JVC/Journal of Vibration and Control, 2015, 21, 3465-3475.	2.6	17
21	Stiffness optimization of marine propulsion shafting system by FRF-based substructuring method and sensitivity analysis. Ocean Engineering, 2017, 144, 243-256.	4.3	17
22	Vibro-acoustic characteristics of a coupled pump-jet " Shafting system " SUBOFF model under distributed unsteady hydrodynamics by a pump-jet. Ocean Engineering, 2021, 235, 109429.	4.3	17
23	Modeling and optimization of floating raft systems in submarines under different objectives by using hybrid genetic algorithm. JVC/Journal of Vibration and Control, 2012, 18, 268-297.	2.6	15
24	Dynamic modeling and analysis of axial vibration of a coupled propeller and shaft system. Journal of Mechanical Science and Technology, 2016, 30, 2953-2960.	1.5	13
25	Numerical analysis on flow noise and structure-borne noise of fully appended SUBOFF propelled by a pump-jet. Engineering Analysis With Boundary Elements, 2022, 138, 140-158.	3.7	13
26	Free vibration of stiffened laminated shells of revolution with a free-form meridian and general boundary conditions. International Journal of Mechanical Sciences, 2019, 157-158, 561-573.	6.7	12
27	Reducing underwater radiated noise of a SUBOFF model propelled by a pump-jet without tip clearance: Numerical simulation. Ocean Engineering, 2022, 243, 110277.	4.3	12
28	Vibration transmission suppression for propeller-shaft system by hub-embedded damping ring under broadband propeller force. Nonlinear Dynamics, 2018, 91, 2651-2666.	5.2	11
29	Mechanism of a periodic chiral lattice coating on sound radiation suppression at the strong radiation mode of a stiffened hull plate. International Journal of Mechanical Sciences, 2020, 175, 105512.	6.7	11
30	Experimental and numerical investigations on the flow-induced vibration and acoustic radiation of a pump-jet propulsor model in a water tunnel. Ocean Engineering, 2022, 258, 111736.	4.3	11
31	Development of curved beam periodic structure in broadband resonance suppression for cylindrical shell structure. JVC/Journal of Vibration and Control, 2017, 23, 1267-1284.	2.6	9
32	Broadband force spectra of a pump-jet propulsor subjected to inflow turbulence: Comparison with ducted propeller and propeller. Ocean Engineering, 2022, 251, 111087.	4.3	9
33	Analytical stiffness model of a fluid-filled U-shaped bellows based three-parameter fluid damper for micro-vibration suppression. Aerospace Science and Technology, 2017, 69, 357-369.	4.8	8
34	High-frequency disturbance force suppression mechanism of a flywheel equipped with a flexible dynamic vibration absorber. JVC/Journal of Vibration and Control, 2020, 26, 2113-2124.	2.6	8
35	Effects of the duct on the vibro-acoustic characteristics of the pump-jet"shaft" submarine system under pump-jet excitation. Ocean Engineering, 2022, 254, 111327.	4.3	8
36	Modeling and Optimization of Octostrut Vibration Isolation Platform by FRF-Based Substructuring Method. Journal of Aerospace Engineering, 2015, 28, .	1.4	7

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37	Design scheme of a passive isotropic multi-strut vibration isolation platform constructed by three-parameter isolators based on the optimum damping frequency concept. JVC/Journal of Vibration and Control, 2018, 24, 3931-3943.	2.6	7
38	Stochastic Response Analysis of a Built-Up Vibro-Acoustic System with Parameter Uncertainties. International Journal of Applied Mechanics, 2018, 10, 1850084.	2.2	6
39	Effects of the stator prewhirl angle on the unsteady force under uniform and turbulent inflow for a pump-jet propulsor: a numerical study. Ships and Offshore Structures, 2022, 17, 2660-2673.	1.9	6
40	Dynamic Modeling and Characteristic Analysis of Floating Raft System with Attached Pipes. Shock and Vibration, 2017, 2017, 1-13.	0.6	5
41	An Analytical Method for the Response of Coated Plates Subjected to One-Dimensional Underwater Weak Shock Wave. Shock and Vibration, 2014, 2014, 1-13.	0.6	4
42	Linear thermal-acoustic responses of a composite panel in progressive wave tube based on wavenumber-frequency analysis. Journal of Sound and Vibration, 2019, 443, 1-24.	3.9	4
43	Study on the application and optimization of trichiral raft in a floating raft system. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 1819-1829.	2.1	2
44	Design of Viscoelastic-dry Friction Damping Ring for Micro-vibration Suppression of a Flywheel. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2020, 56, 98.	0.5	2
45	Vibration control of a flywheel by a friction ring dynamic vibration absorber. Archive of Applied Mechanics, 2022, 92, 1303.	2.2	0