Zhushi Rao

List of Publications by Year
in descending order

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36 papers	613 citations	623574 14 h-index	610775 24 g-index
36 all docs	36 docs citations	36 times ranked	382 citing authors

#	Article	IF	Citations
1	Nonlinear behaviors analysis of high-speed rotor system supported by aerostatic bearings. Tribology International, 2022, 170, 107111.	3.0	14
2	Design of a high-performance piecewise bi-stable piezoelectric energy harvester. Energy, 2022, 241, 122514.	4.5	8
3	Design of a quad-stable piezoelectric energy harvester capable of programming the coordinates of equilibrium points. Nonlinear Dynamics, 2022, 108, 857-871.	2.7	10
4	Study on the dynamic behavior of herringbone gear structure of marine propulsion system powered by double-cylinder turbines. Science China Technological Sciences, 2022, 65, 611-630.	2.0	9
5	A device capable of customizing nonlinear forces for vibration energy harvesting, vibration isolation, and nonlinear energy sink. Mechanical Systems and Signal Processing, 2021, 147, 107101.	4.4	74
6	Design of vibration energy harvesters with customized nonlinear forces. Mechanical Systems and Signal Processing, 2021, 153, 107526.	4.4	30
7	Dynamic Evolution Laws of the DI-SO Helical Gear System with Unsymmetrical Load Inputs. Journal of Vibration Engineering and Technologies, 2021, 9, 1317.	1.3	1
8	Double-panel active noise reducing casing with noise source enclosed inside â€“ Modelling and simulation study. Mechanical Systems and Signal Processing, 2021, 152, 107371.	4.4	11
9	Estimation of sound source directions using a biological coupled sensor array with a multistage iteration method. Applied Acoustics, 2021, 177, 107960.	1.7	0
10	Design of a broadband piezoelectric energy harvester with piecewise nonlinearity. Smart Materials and Structures, 2021, 30, 085040.	1.8	8
11	The modified weighted residual formulation in the wave based method for plate bending problems: A general formulation for different types of edge restraints. Journal of Sound and Vibration, 2021, 511, 116329.	2.1	3
12	Design of a multi-stable piezoelectric energy harvester with programmable equilibrium point configurations. Applied Energy, 2021, 302, 117585.	5.1	21
13	Study on bearing force of marine propeller induced by longitudinal vibration of propulsion-shafting. Ships and Offshore Structures, 2020, 15, 162-173.	0.9	10
14	Assigning viscoelastic and hyperelastic properties to the middle-ear soft tissues for sound transmission. Biomechanics and Modeling in Mechanobiology, 2020, 19, 957-970.	1.4	9
15	Data on the flexural vibration of thin plate with elastically restrained edges: Finite element method and wave based method simulations. Data in Brief, 2020, 31, 105883.	0.5	2
16	Comparison study of misalignment effect along two perpendicular directions on the stability of rigid rotor-aerostatic journal bearing system. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2020, 234, 1618-1634.	1.0	11
17	Application of augmented Kalman filter to identify unbalance load of rotor-bearing system: Theory and experiment. Journal of Sound and Vibration, 2019, 463, 114972.	2.1	24
18	Numerical Study and Optimization of a Novel Piezoelectric Transducer for a Round-Window Stimulating Type Middle-Ear Implant. Micromachines, 2019, 10, 40.	1.4	5

#	Article	IF	Citations
19	Finite element analysis of round-window stimulation of the cochlea in patients with stapedial otosclerosis. Journal of the Acoustical Society of America, 2019, 146, 4122-4130.	0.5	9
20	A comparative finite-element analysis of acoustic transmission in human cochlea during forward and reverse stimulations. Applied Acoustics, 2019, 145, 278-289.	1.7	13
21	Investigation on the lubrication regimes and dynamic characteristics of hydro-hybrid bearing of two-circuit main loop liquid sodium pump system. Annals of Nuclear Energy, 2018, 115, 220-232.	0.9	18
22	Numerical research of pressure depression in aerostatic thrust bearing with inherent orifice. Tribology International, 2018, 123, 385-396.	3.0	26
23	A Biologically Inspired Coupled Microphone Array for Sound Source Bearing Estimation. Journal of Vibration and Acoustics, Transactions of the ASME, 2018, 140, .	1.0	5
24	Mixed-lubrication analysis of misaligned bearing considering turbulence. Tribology International, 2018, 119, 19-26.	3.0	57
25	Transient response of the human ear to impulsive stimuli: A finite element analysis. Journal of the Acoustical Society of America, 2018, 143, 2768-2779.	0.5	14
26	The hydroelastic analysis of marine propellers with consideration of the effect of the shaft. Ocean Engineering, 2017, 131, 95-106.	1.9	21
27	Mixed-lubrication analysis of thin polymer film overplayed metallic marine stern bearing considering wall slip and journal misalignment. Tribology International, 2017, 109, 390-397.	3.0	53
28	Analysis of equivalent supporting point location and carrying capacity of misaligned journal bearing. Tribology International, 2017, 116, 26-38.	3.0	23
29	Development of a semi-active dynamic vibration absorber for longitudinal vibration of propulsion shaft system based on magnetorheological elastomer. Smart Materials and Structures, 2017, 26, 075009.	1.8	30
30	Concept and Evaluation of a New Piezoelectric Transducer for an Implantable Middle Ear Hearing Device. Sensors, 2017, 17, 2515.	2.1	16
31	Parameter study of time-delay magnification in a biologically inspired, mechanically coupled acoustic sensor array. Journal of the Acoustical Society of America, 2016, 140, 3854-3861.	0.5	8
32	Numerical evaluation of implantable hearing devices using a finite element model of human ear considering viscoelastic properties. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2016, 230, 784-794.	1.0	8
33	FINITE ELEMENT ANALYSIS OF THE EFFECT OF ACTUATOR COUPLING CONDITIONS ON ROUND WINDOW STIMULATION. Journal of Mechanics in Medicine and Biology, 2015, 15, 1550048.	0.3	15
34	Design and analyses of axial semi-active dynamic vibration absorbers based on magnetorheological elastomers. Journal of Intelligent Material Systems and Structures, 2014, 25, 2199-2207.	1.4	45
35	Finite element analysis of the effects of a floating mass transducer on the performance of a middle ear implant. Journal of Medical Engineering and Technology, 2010, 34, 316-323.	0.8	2
36	Instability Mechanism of Marine Propulsion System with Double-Cylinder Turbines Considering the Effects of System Parameters: Symmetrical Layout and Unsymmetrical Load. Journal of Vibration Engineering and Technologies, 0, , 1.	1.3	0