

Lixi Huang

List of Publications by Year in descending order

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74
papers

1,971
citations

318942

23
h-index

299063

42
g-index

75
all docs

75
docs citations

75
times ranked

1110
citing authors

#	ARTICLE	IF	CITATIONS
1	Extra sound attenuation via shunted piezoelectric resonators in a duct. <i>International Journal of Mechanical Sciences</i> , 2022, 225, 107370.	3.6	2
2	A programmable resonator based on a shunt-electro-mechanical diaphragm. <i>International Journal of Mechanical Sciences</i> , 2022, 229, 107532.	3.6	0
3	Noise attenuation and performance study of a small-sized contra-rotating fan with microperforated casing treatments. <i>Mechanical Systems and Signal Processing</i> , 2021, 147, 107086.	4.4	19
4	Effect of porous casing on small axial-flow fan noise. <i>Applied Acoustics</i> , 2021, 175, 107808.	1.7	12
5	Broadband Noise Absorber with Piezoelectric Shunting. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 51-56.	0.3	0
6	Indoor nocturnal noise is associated with body mass index and blood pressure: a cross-sectional study. <i>BMC Public Health</i> , 2021, 21, 815.	1.2	7
7	Noise sensitivity associated with nonrestorative sleep in Chinese adults: a cross-sectional study. <i>BMC Public Health</i> , 2021, 21, 643.	1.2	7
8	Investigation of broadband sound absorption of smart micro-perforated panel (MPP) absorber. <i>International Journal of Mechanical Sciences</i> , 2021, 199, 106426.	3.6	32
9	Broadband and extremely low frequency sound isolation by a programmable shunted electromechanical diaphragm with force dipole effect. <i>International Journal of Mechanical Sciences</i> , 2021, 200, 106447.	3.6	9
10	Plane Wave Scattering and Absorption Analysis of Periodic Metasurface with Mode Matching Method. , 2021, , .		0
11	Agglomeration of particles by a converging ultrasound field and their quantitative assessments. <i>Ultrasonics Sonochemistry</i> , 2021, 75, 105590.	3.8	10
12	Towards altering sound frequency at will by a linear meta-layer with time-varying and quantized properties. <i>Communications Physics</i> , 2021, 4, .	2.0	4
13	On acoustic absorption mechanisms of multiple coupled quarter-wavelength resonators: Mutual impedance effects. <i>Journal of Sound and Vibration</i> , 2021, 508, 116202.	2.1	9
14	A Short Form of the Chinese Version of the Weinstein Noise Sensitivity Scale through Optimal Test Assembly. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 879.	1.2	5
15	Theoretical characterization and modal directivity investigation of the interaction noise for a small contra-rotating fan. <i>Mechanical Systems and Signal Processing</i> , 2020, 135, 106362.	4.4	9
16	Realization of equivalent gradience of porous materials with periodic macro void structure. <i>Mechanical Systems and Signal Processing</i> , 2020, 136, 106434.	4.4	4
17	A tunable electromagnetic acoustic switch. <i>Applied Physics Letters</i> , 2020, 116, 183502.	1.5	8
18	Tuning of the acoustic impedance of a shunted electro-mechanical diaphragm for a broadband sound absorber. <i>Mechanical Systems and Signal Processing</i> , 2019, 126, 536-552.	4.4	17

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19	Acoustic characterization of ducts lined with poroelastic materials based on wave finite element method. <i>Applied Acoustics</i> , 2019, 145, 362-373.	1.7	13
20	Acoustic Impedance and the Control of Sound Waves. <i>Lecture Notes in Mechanical Engineering</i> , 2019, , 315-324.	0.3	0
21	Theoretical Acoustic Prediction of the Aerodynamic Interaction for Contra-Rotating Fans. <i>AIAA Journal</i> , 2018, 56, 1855-1866.	1.5	10
22	Characterization of low-frequency acoustic wave propagation through a periodic corrugated waveguide. <i>Journal of Sound and Vibration</i> , 2018, 418, 79-99.	2.1	8
23	Effect of noise tolerance on non-restorative sleep: a population-based study in Hong Kong. <i>BMJ Open</i> , 2018, 8, e020518.	0.8	4
24	Hybrid acoustic metamaterial as super absorber for broadband low-frequency sound. <i>Scientific Reports</i> , 2017, 7, 43340.	1.6	152
25	Deep subwavelength acoustic metamaterial for low-frequency sound absorption. <i>Europhysics Letters</i> , 2017, 118, 44002.	0.7	48
26	Electroacoustic control of Rijke tube instability. <i>Journal of Sound and Vibration</i> , 2017, 409, 131-144.	2.1	14
27	Tunable acoustic absorbers with periodical micro-perforations having varying pore shapes. <i>Europhysics Letters</i> , 2017, 120, 44001.	0.7	8
28	When joggers meet robots: A preliminary study on foot strike patterns. , 2017, , .		1
29	A semi-analytical model for sound propagation in sintered fiber metals. <i>Composites Part B: Engineering</i> , 2017, 126, 17-26.	5.9	17
30	Calculation model for sound propagation in duct with circumferentially non-uniform liner. , 2017, , .		1
31	Acoustic analysis of two small axial-flow fans in series. <i>Noise Control Engineering Journal</i> , 2017, 65, 320-335.	0.2	0
32	Noise source analysis and control of two axial-flow cooling fans in series. <i>Noise Control Engineering Journal</i> , 2016, 64, 677-687.	0.2	3
33	On the acoustic wedge design and simulation of anechoic chamber. <i>Journal of Sound and Vibration</i> , 2016, 381, 139-155.	2.1	7
34	Effect of Viscous Flow on the Flutter Threshold of a Cantilever Plate. <i>Lecture Notes in Mechanical Engineering</i> , 2016, , 327-332.	0.3	0
35	Passive Noise Reduction for a Contrarotating Fan. <i>Journal of Turbomachinery</i> , 2015, 137, .	0.9	17
36	Analysis and optimisation for inerter-based isolators via fixed-point theory and algebraic solution. <i>Journal of Sound and Vibration</i> , 2015, 346, 17-36.	2.1	170

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37	A new computational model for circumferentially non-uniform liner. , 2014, , .		1
38	Vibration analysis for isolation system with inerter. , 2014, , .		4
39	Thin broadband noise absorption through acoustic reactance control by electro-mechanical coupling without sensor. Journal of the Acoustical Society of America, 2014, 135, 2738-2745.	0.5	27
40	Oblique incidence sound absorption of parallel arrangement of multiple micro-perforated panel absorbers in a periodic pattern. Journal of Sound and Vibration, 2014, 333, 6828-6842.	2.1	74
41	Influence of inerter on natural frequencies of vibration systems. Journal of Sound and Vibration, 2014, 333, 1874-1887.	2.1	156
42	Modal analysis of cantilever plate flutter. Journal of Fluids and Structures, 2013, 38, 273-289.	1.5	27
43	Effects of secondary loudspeaker properties on broadband feedforward active duct noise control. Journal of the Acoustical Society of America, 2013, 134, 257-263.	0.5	1
44	Investigation of a broadband duct noise control system inspired by the middle ear mechanism. Mechanical Systems and Signal Processing, 2012, 31, 284-297.	4.4	3
45	Time-domain simulation of acoustic wave propagation and interaction with flexible structures using Chebyshev collocation method. Journal of Sound and Vibration, 2012, 331, 4343-4358.	2.1	9
46	Flow oscillation—A measure to predict the surgery outcome for obstructed sleep apnea (OSA) subject. Journal of Biomechanics, 2012, 45, 2284-2288.	0.9	5
47	On the acoustic properties of parallel arrangement of multiple micro-perforated panel absorbers with different cavity depths. Journal of the Acoustical Society of America, 2011, 130, 208-218.	0.5	199
48	Suppression of broadband noise radiated by a low-speed fan in a duct. Journal of the Acoustical Society of America, 2010, 128, 152-163.	0.5	14
49	Sound propagation in and low frequency noise absorption by helium-filled porous material. Journal of the Acoustical Society of America, 2009, 126, 3008-3019.	0.5	8
50	Attenuation of low frequency duct noise by a flute-like silencer. Journal of Sound and Vibration, 2009, 326, 161-176.	2.1	5
51	Experimental study and control of noise from a window-type ventilation fan. Noise Control Engineering Journal, 2009, 57, 335.	0.2	1
52	Analysis of absorption and reflection mechanisms in a three-dimensional plate silencer. Journal of Sound and Vibration, 2008, 313, 510-524.	2.1	19
53	Realization of a broadband low-frequency plate silencer using sandwich plates. Journal of Sound and Vibration, 2008, 318, 792-808.	2.1	24
54	Membrane covered duct lining for high-frequency noise attenuation: Prediction using a Chebyshev collocation method. Journal of the Acoustical Society of America, 2008, 124, 2918-2929.	0.5	9

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55	Optimization of a clamped plate silencer. Journal of the Acoustical Society of America, 2007, 121, 949-960.	0.5	31
56	A computational study of the interaction noise from a small axial-flow fan. Journal of the Acoustical Society of America, 2007, 122, 1404-1415.	0.5	35
57	Broadband sound reflection by plates covering side-branch cavities in a duct. Journal of the Acoustical Society of America, 2006, 119, 2628-2638.	0.5	52
58	Quantification and control of noise sources in a small axial-flow fan. Noise Control Engineering Journal, 2006, 54, 27-32.	0.2	10
59	Active control of drag noise from a small axial flow fan. Journal of the Acoustical Society of America, 2006, 120, 192-203.	0.5	16
60	Vibroacoustics of three-dimensional drum silencer. Journal of the Acoustical Society of America, 2005, 118, 2313-2320.	0.5	30
61	Acoustic analysis of a computer cooling fan. Journal of the Acoustical Society of America, 2005, 118, 2190-2200.	0.5	23
62	Effect of flow on the drumlike silencer. Journal of the Acoustical Society of America, 2005, 118, 3077-3085.	0.5	42
63	Parametric study of a drum-like silencer. Journal of Sound and Vibration, 2004, 269, 467-488.	2.1	35
64	Measurement of in-duct acoustic properties by using a single microphone with fixed position. Journal of the Acoustical Society of America, 2004, 116, 3498-3504.	0.5	2
65	Drum silencer with shallow cavity filled with helium. Journal of the Acoustical Society of America, 2003, 114, 1477-1486.	0.5	13
66	Characterizing computer cooling fan noise. Journal of the Acoustical Society of America, 2003, 114, 3189-3200.	0.5	51
67	Modal analysis of a drumlike silencer. Journal of the Acoustical Society of America, 2002, 112, 2014-2025.	0.5	85
68	Experimental studies of a drumlike silencer. Journal of the Acoustical Society of America, 2002, 112, 2026-2035.	0.5	49
69	A theoretical study of passive control of duct noise using panels of varying compliance. Journal of the Acoustical Society of America, 2001, 109, 2805-2814.	0.5	14
70	Experimental study of sound propagation in a flexible duct. Journal of the Acoustical Society of America, 2000, 108, 624-631.	0.5	30
71	Neuromechanical interaction in human snoring and upper airway obstruction. Journal of Applied Physiology, 1999, 86, 1759-1763.	1.2	44
72	A theoretical study of duct noise control by flexible panels. Journal of the Acoustical Society of America, 1999, 106, 1801-1809.	0.5	102

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73	Biomechanics of snoring. Endeavour, 1995, 19, 96-100.	0.1	52
74	Mechanical modeling of palatal snoring. Journal of the Acoustical Society of America, 1995, 97, 3642-3648.	0.5	42