

Lixi Huang

List of Publications by Year in descending order

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74
papers

1,971
citations

279798
23
h-index

265206
42
g-index

75
all docs

75
docs citations

75
times ranked

981
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.1	199
2	Analysis and optimisation for inerter-based isolators via fixed-point theory and algebraic solution. Journal of Sound and Vibration, 2015, 346, 17-36.	3.9	170
3	Influence of inerter on natural frequencies of vibration systems. Journal of Sound and Vibration, 2014, 333, 1874-1887.	3.9	156
4	Hybrid acoustic metamaterial as super absorber for broadband low-frequency sound. Scientific Reports, 2017, 7, 43340.	3.3	152
5	A theoretical study of duct noise control by flexible panels. Journal of the Acoustical Society of America, 1999, 106, 1801-1809.	1.1	102
6	Modal analysis of a drumlike silencer. Journal of the Acoustical Society of America, 2002, 112, 2014-2025.	1.1	85
7	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.	3.9	74
8	Biomechanics of snoring. Endeavour, 1995, 19, 96-100.	0.4	52
9	Broadband sound reflection by plates covering side-branch cavities in a duct. Journal of the Acoustical Society of America, 2006, 119, 2628-2638.	1.1	52
10	Characterizing computer cooling fan noise. Journal of the Acoustical Society of America, 2003, 114, 3189-3200.	1.1	51
11	Experimental studies of a drumlike silencer. Journal of the Acoustical Society of America, 2002, 112, 2026-2035.	1.1	49
12	Deep subwavelength acoustic metamaterial for low-frequency sound absorption. Europhysics Letters, 2017, 118, 44002.	2.0	48
13	Neuromechanical interaction in human snoring and upper airway obstruction. Journal of Applied Physiology, 1999, 86, 1759-1763.	2.5	44
14	Mechanical modeling of palatal snoring. Journal of the Acoustical Society of America, 1995, 97, 3642-3648.	1.1	42
15	Effect of flow on the drumlike silencer. Journal of the Acoustical Society of America, 2005, 118, 3077-3085.	1.1	42
16	Parametric study of a drum-like silencer. Journal of Sound and Vibration, 2004, 269, 467-488.	3.9	35
17	A computational study of the interaction noise from a small axial-flow fan. Journal of the Acoustical Society of America, 2007, 122, 1404-1415.	1.1	35
18	Investigation of broadband sound absorption of smart micro-perforated panel (MPP) absorber. International Journal of Mechanical Sciences, 2021, 199, 106426.	6.7	32

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19	Optimization of a clamped plate silencer. Journal of the Acoustical Society of America, 2007, 121, 949-960.	1.1	31
20	Experimental study of sound propagation in a flexible duct. Journal of the Acoustical Society of America, 2000, 108, 624-631.	1.1	30
21	Vibroacoustics of three-dimensional drum silencer. Journal of the Acoustical Society of America, 2005, 118, 2313-2320.	1.1	30
22	Modal analysis of cantilever plate flutter. Journal of Fluids and Structures, 2013, 38, 273-289.	3.4	27
23	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.	1.1	27
24	Realization of a broadband low-frequency plate silencer using sandwich plates. Journal of Sound and Vibration, 2008, 318, 792-808.	3.9	24
25	Acoustic analysis of a computer cooling fan. Journal of the Acoustical Society of America, 2005, 118, 2190-2200.	1.1	23
26	Analysis of absorption and reflection mechanisms in a three-dimensional plate silencer. Journal of Sound and Vibration, 2008, 313, 510-524.	3.9	19
27	Noise attenuation and performance study of a small-sized contra-rotating fan with microperforated casing treatments. Mechanical Systems and Signal Processing, 2021, 147, 107086.	8.0	19
28	Passive Noise Reduction for a Contrarotating Fan. Journal of Turbomachinery, 2015, 137, .	1.7	17
29	Tuning of the acoustic impedance of a shunted electro-mechanical diaphragm for a broadband sound absorber. Mechanical Systems and Signal Processing, 2019, 126, 536-552.	8.0	17
30	A semi-analytical model for sound propagation in sintered fiber metals. Composites Part B: Engineering, 2017, 126, 17-26.	12.0	17
31	Active control of drag noise from a small axial flow fan. Journal of the Acoustical Society of America, 2006, 120, 192-203.	1.1	16
32	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.	1.1	14
33	Suppression of broadband noise radiated by a low-speed fan in a duct. Journal of the Acoustical Society of America, 2010, 128, 152-163.	1.1	14
34	Electroacoustic control of Rijke tube instability. Journal of Sound and Vibration, 2017, 409, 131-144.	3.9	14
35	Drum silencer with shallow cavity filled with helium. Journal of the Acoustical Society of America, 2003, 114, 1477-1486.	1.1	13
36	Acoustic characterization of ducts lined with poroelastic materials based on wave finite element method. Applied Acoustics, 2019, 145, 362-373.	3.3	13

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37	Effect of porous casing on small axial-flow fan noise. <i>Applied Acoustics</i> , 2021, 175, 107808.	3.3	12
38	Quantification and control of noise sources in a small axial-flow fan. <i>Noise Control Engineering Journal</i> , 2006, 54, 27-32.	0.3	10
39	Theoretical Acoustic Prediction of the Aerodynamic Interaction for Contra-Rotating Fans. <i>AIAA Journal</i> , 2018, 56, 1855-1866.	2.6	10
40	Agglomeration of particles by a converging ultrasound field and their quantitative assessments. <i>Ultrasonics Sonochemistry</i> , 2021, 75, 105590.	8.2	10
41	Membrane covered duct lining for high-frequency noise attenuation: Prediction using a Chebyshev collocation method. <i>Journal of the Acoustical Society of America</i> , 2008, 124, 2918-2929.	1.1	9
42	Time-domain simulation of acoustic wave propagation and interaction with flexible structures using Chebyshev collocation method. <i>Journal of Sound and Vibration</i> , 2012, 331, 4343-4358.	3.9	9
43	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.	8.0	9
44	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.	6.7	9
45	On acoustic absorption mechanisms of multiple coupled quarter-wavelength resonators: Mutual impedance effects. <i>Journal of Sound and Vibration</i> , 2021, 508, 116202.	3.9	9
46	Sound propagation in and low frequency noise absorption by helium-filled porous material. <i>Journal of the Acoustical Society of America</i> , 2009, 126, 3008-3019.	1.1	8
47	Tunable acoustic absorbers with periodical micro-perforations having varying pore shapes. <i>Europhysics Letters</i> , 2017, 120, 44001.	2.0	8
48	Characterization of low-frequency acoustic wave propagation through a periodic corrugated waveguide. <i>Journal of Sound and Vibration</i> , 2018, 418, 79-99.	3.9	8
49	A tunable electromagnetic acoustic switch. <i>Applied Physics Letters</i> , 2020, 116, 183502.	3.3	8
50	On the acoustic wedge design and simulation of anechoic chamber. <i>Journal of Sound and Vibration</i> , 2016, 381, 139-155.	3.9	7
51	Indoor nocturnal noise is associated with body mass index and blood pressure: a cross-sectional study. <i>BMC Public Health</i> , 2021, 21, 815.	2.9	7
52	Noise sensitivity associated with nonrestorative sleep in Chinese adults: a cross-sectional study. <i>BMC Public Health</i> , 2021, 21, 643.	2.9	7
53	Attenuation of low frequency duct noise by a flute-like silencer. <i>Journal of Sound and Vibration</i> , 2009, 326, 161-176.	3.9	5
54	Flow oscillation—A measure to predict the surgery outcome for obstructed sleep apnea (OSA) subject. <i>Journal of Biomechanics</i> , 2012, 45, 2284-2288.	2.1	5

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55	A Short Form of the Chinese Version of the Weinstein Noise Sensitivity Scale through Optimal Test Assembly. International Journal of Environmental Research and Public Health, 2021, 18, 879.	2.6	5
56	Vibration analysis for isolation system with inerter. , 2014, , .		4
57	Effect of noise tolerance on non-restorative sleep: a population-based study in Hong Kong. BMJ Open, 2018, 8, e020518.	1.9	4
58	Realization of equivalent gradience of porous materials with periodic macro void structure. Mechanical Systems and Signal Processing, 2020, 136, 106434.	8.0	4
59	Towards altering sound frequency at will by a linear meta-layer with time-varying and quantized properties. Communications Physics, 2021, 4, .	5.3	4
60	Investigation of a broadband duct noise control system inspired by the middle ear mechanism. Mechanical Systems and Signal Processing, 2012, 31, 284-297.	8.0	3
61	Noise source analysis and control of two axial-flow cooling fans in series. Noise Control Engineering Journal, 2016, 64, 677-687.	0.3	3
62	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.	1.1	2
63	Extra sound attenuation via shunted piezoelectric resonators in a duct. International Journal of Mechanical Sciences, 2022, 225, 107370.	6.7	2
64	Experimental study and control of noise from a window-type ventilation fan. Noise Control Engineering Journal, 2009, 57, 335.	0.3	1
65	Effects of secondary loudspeaker properties on broadband feedforward active duct noise control. Journal of the Acoustical Society of America, 2013, 134, 257-263.	1.1	1
66	A new computational model for circumferentially non-uniform liner. , 2014, , .		1
67	When joggers meet robots: A preliminary study on foot strike patterns. , 2017, , .		1
68	Calculation model for sound propagation in duct with circumferentially non-uniform liner. , 2017, , .		1
69	Broadband Noise Absorber with Piezoelectric Shunting. Lecture Notes in Mechanical Engineering, 2021, , 51-56.	0.4	0
70	Plane Wave Scattering and Absorption Analysis of Periodic Metasurface with Mode Matching Method. , 2021, , .		0
71	Effect of Viscous Flow on the Flutter Threshold of a Cantilever Plate. Lecture Notes in Mechanical Engineering, 2016, , 327-332.	0.4	0
72	Acoustic analysis of two small axial-flow fans in series. Noise Control Engineering Journal, 2017, 65, 320-335.	0.3	0

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73	Acoustic Impedance and the Control of Sound Waves. Lecture Notes in Mechanical Engineering, 2019, , 315-324.	0.4	0
74	A programmable resonator based on a shunt-electro-mechanical diaphragm. International Journal of Mechanical Sciences, 2022, 229, 107532.	6.7	0