Liuxian Zhao

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3496760/publications.pdf

Version: 2024-02-01

28	602	840776 11	713466 21
papers	citations	h-index	g-index

28	28	28	347
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Broadband energy harvesting using acoustic black hole structural tailoring. Smart Materials and Structures, 2014, 23, 065021.	3.5	163
2	An experimental study of vibration based energy harvesting in dynamically tailored structures with embedded acoustic black holes. Smart Materials and Structures, 2015, 24, 065039.	3.5	77
3	Embedded Acoustic Black Holes for semi-passive broadband vibration attenuation in thin-walled structures. Journal of Sound and Vibration, 2017, 388, 42-52.	3.9	52
4	Low-frequency vibration reduction using a sandwich plate with periodically embedded acoustic black holes. Journal of Sound and Vibration, 2019, 441, 165-171.	3.9	42
5	Ultrasound beam steering with flattened acoustic metamaterial Luneburg lens. Applied Physics Letters, 2020, 116, .	3.3	37
6	Modified structural Luneburg lens for broadband focusing and collimation. Mechanical Systems and Signal Processing, 2020, 144, 106868.	8.0	37
7	Compact Acoustic Rainbow Trapping in a Bioinspired Spiral Array of Graded Locally Resonant Metamaterials. Sensors, 2019, 19, 788.	3.8	34
8	Visualization of solitary waves via laser Doppler vibrometry for heavy impurity identification in a granular chain. Smart Materials and Structures, 2013, 22, 035016.	3.5	29
9	Passive Vibration Control Based on Embedded Acoustic Black Holes. Journal of Vibration and Acoustics, Transactions of the ASME, 2016, 138, .	1.6	28
10	Structural Luneburg lens for broadband cloaking and wave guiding. Scientific Reports, 2020, 10, 14556.	3.3	20
11	An application of impediography to the high sensitivity and high resolution identification of structural damage. Smart Materials and Structures, 2015, 24, 065044.	3.5	13
12	Flattened structural Luneburg lens for broadband beamforming. Journal of the Acoustical Society of America, 2020, 148, EL82-EL87.	1.1	11
13	Broadband ultra-long acoustic jet based on double-foci Luneburg lens. JASA Express Letters, 2021, 1, .	1.1	11
14	Broadband acoustic collimation and focusing using reduced aberration acoustic Luneburg lens. Journal of Applied Physics, 2021, 130, .	2.5	11
15	Asymmetric Lamb Wave Propagation and Mode Isolation in Thin Plate With Spatiotemporal Periodic Stiffness. Journal of Vibration and Acoustics, Transactions of the ASME, 2019, 141, .	1.6	6
16	Interaction of ultrasound with microporous polyethylene scaffolds. Applied Acoustics, 2019, 153, 102-109.	3.3	6
17	Detection of breathingâ€type damage using multiharmonic electrical impedance tomography. Structural Control and Health Monitoring, 2019, 26, e2330.	4.0	6
18	Acoustic waveguide based on cascaded Luneburg lens. JASA Express Letters, 2022, 2, .	1.1	6

#	Article	IF	Citations
19	Enhanced vibration based energy harvesting using embedded acoustic black holes. Proceedings of SPIE, 2014, , .	0.8	3
20	Tunable multi-source energy harvesting via frequency selective structures. Engineering Research Express, 2019, 1, 015001.	1.6	3
21	Gas Accumulation Detection in a Water Tank Using Lamb Waves. , 2012, , .		2
22	Research on Multi-Step Active Disassembly Method of Products Based on ADSM. Advanced Materials Research, 2010, 139-141, 1428-1432.	0.3	1
23	Comparative study of active and passive sensing with AE and PWAS transducers. , 2012, , .		1
24	A dual mode imaging array for damage detection in grout structures. , 2013, , .		1
25	Structural damage detection via impediographic tomography. , 2015, , .		1
26	Dual Mode Sensing of Crack Growth in Steel Bridge Structures. , 2012, , .		1
27	Electromechanical Impedance Modeling for Structural Health Monitoring. , 2012, , .		0
28	Analysis of Mobile Phone Reliability Based on Active Disassembly Using Smart Materials. Journal of Surface Engineered Materials and Advanced Technology, 2011, 01, 80-87.	0.2	0