

Zhenbo Lu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

36
papers

417
citations

12
h-index

19
g-index

38
ext. papers

544
ext. citations

3.3
avg, IF

4.25
L-index

#	Paper	IF	Citations
36	Tunable acoustic metamaterial with an array of resonators actuated by dielectric elastomer. <i>Extreme Mechanics Letters</i> , 2017 , 12, 37-40	3.9	40
35	Broadband low-frequency sound absorption by periodic metamaterial resonators embedded in a porous layer. <i>Journal of Sound and Vibration</i> , 2019 , 461, 114922	3.9	35
34	Electrically tunable and broader-band sound absorption by using micro-perforated dielectric elastomer actuator. <i>Applied Physics Letters</i> , 2017 , 110, 182901	3.4	34
33	On the sound insulation of acoustic metasurface using a sub-structuring approach. <i>Journal of Sound and Vibration</i> , 2017 , 401, 190-203	3.9	30
32	Membrane-type acoustic metamaterial with eccentric masses for broadband sound isolation. <i>Applied Acoustics</i> , 2020 , 157, 107003	3.1	30
31	An electronically tunable duct silencer using dielectric elastomer actuators. <i>Journal of the Acoustical Society of America</i> , 2015 , 138, EL236-41	2.2	29
30	Sound transmission through a periodic acoustic metamaterial grating. <i>Journal of Sound and Vibration</i> , 2019 , 449, 140-156	3.9	27
29	Vibroacoustic modeling of an acoustic resonator tuned by dielectric elastomer membrane with voltage control. <i>Journal of Sound and Vibration</i> , 2017 , 387, 114-126	3.9	24
28	A Tunable Dielectric Elastomer Acoustic Absorber. <i>Acta Acustica United With Acustica</i> , 2015 , 101, 863-866.5	2.3	23
27	Active membrane-based silencer and its acoustic characteristics. <i>Applied Acoustics</i> , 2016 , 111, 39-48	3.1	20
26	Transparent Tunable Acoustic Absorber Membrane Using Inkjet-Printed PEDOT:PSS Thin-Film Compliant Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39942-39951	9.5	18
25	Origami-inspired foldable sound barrier designs. <i>Journal of Sound and Vibration</i> , 2019 , 442, 514-526	3.9	13
24	Quieter propeller with serrated trailing edge. <i>Applied Acoustics</i> , 2019 , 146, 227-236	3.1	11
23	Deformation of the Upper and Lower Surfaces of an Airfoil by Macro Fiber Composite Actuators 2013 ,		7
22	Design and experiment of data-driven modeling and flutter control of a prototype wing. <i>Journal of Sound and Vibration</i> , 2017 , 398, 103-122	3.9	6
21	Enhancing the acoustic absorption of vegetation with embedded periodic metamaterials. <i>Applied Acoustics</i> , 2021 , 171, 107576	3.1	6
20	Bioinspired Low-Noise Wing Design for a Two-Winged Flapping-Wing Micro Air Vehicle. <i>AIAA Journal</i> , 2018 , 56, 4697-4705	2.1	6

19	Active Control of Flow-Induced Acoustic Resonance Through Surface Perturbation. <i>AIAA Journal</i> , 2012 , 50, 2566-2573	2.1	5
18	Time-domain In Situ Characterization of Acoustic Liners in a Flow Duct. <i>AIAA Journal</i> , 2009 , 47, 1379-1387.	2.1	5
17	High humidity sensing by Biogromorphic Dielectric elastomer actuator. <i>Sensors and Actuators B: Chemical</i> , 2021 , 329, 129268	8.5	5
16	Mitigation of under-expanded supersonic jet noise through stepped nozzles. <i>Journal of Sound and Vibration</i> , 2019 , 459, 114875	3.9	4
15	Enhancement of sound absorption via vegetation with a metasurface substrate. <i>Applied Acoustics</i> , 2020 , 165, 107309	3.1	4
14	An investigation on the characteristics of a non-locally reacting acoustic liner. <i>JVC/Journal of Vibration and Control</i> , 2016 , 22, 2337-2346	2	4
13	Flow-induced noise control behind bluff bodies with various leading edges using the surface perturbation technique. <i>Journal of Sound and Vibration</i> , 2016 , 369, 1-15	3.9	4
12	Closed-loop control of flow-induced sound in a flow duct with downstream resonant cavities. <i>Journal of the Acoustical Society of America</i> , 2013 , 133, 1468-79	2.2	4
11	A Metawindow with Optimised Acoustic and Ventilation Performance. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3168	2.6	4
10	Aeroelastic responses identification of a high-aspect-ratio flexible wing model and its active flutter suppression strategy 2016 ,		3
9	Impedance Boundary Condition for Truncated Open Spaces. <i>AIAA Journal</i> , 2008 , 46, 1432-1441	2.1	2
8	Noise reduction of sinusoidal wavy cylinder in subcritical flow regime. <i>Physics of Fluids</i> , 2021 , 33, 105120.	4.4	2
7	A novel duct silencer using dielectric elastomer absorbers 2014 ,		1
6	Acoustic inerter: Ultra-low frequency sound attenuation in a duct. <i>Journal of the Acoustical Society of America</i> , 2020 , 148, EL27	2.2	1
5	Energetic structures in the turbulent boundary layer over a spanwise-heterogeneous converging/diverging riblets wall. <i>Physics of Fluids</i> , 2021 , 33, 075113	4.4	1
4	Reduced-order modeling and flutter suppression control of an experimental wing 2016 ,		1
3	Numerical Simulations of Serrated Propellers to Reduce Noise. <i>Lecture Notes in Computer Science</i> , 2020 , 87-103	0.9	0
2	Dielectric Elastomer Actuator-Based Multifunctional Smart Window for Transparency Tuning and Noise Absorption. <i>Actuators</i> , 2021 , 10, 16	2.4	0

1 Low-Noise Flapping Wings with Tensed Membrane. *AIAA Journal*, **2020**, 58, 2388-2397

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