

Zhenbo Lu

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2058566/zhenbo-lu-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Noise reduction of sinusoidal wavy cylinder in subcritical flow regime. <i>Physics of Fluids</i> , 2021 , 33, 105120	4.4	2
35	A Metawindow with Optimised Acoustic and Ventilation Performance. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3168	2.6	4
34	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
33	Enhancing the acoustic absorption of vegetation with embedded periodic metamaterials. <i>Applied Acoustics</i> , 2021 , 171, 107576	3.1	6
32	Dielectric Elastomer Actuator-Based Multifunctional Smart Window for Transparency Tuning and Noise Absorption. <i>Actuators</i> , 2021 , 10, 16	2.4	0
31	High humidity sensing by hygromorphic dielectric elastomer actuator. <i>Sensors and Actuators B: Chemical</i> , 2021 , 329, 129268	8.5	5
30	Enhancement of sound absorption via vegetation with a metasurface substrate. <i>Applied Acoustics</i> , 2020 , 165, 107309	3.1	4
29	Low-Noise Flapping Wings with Tensed Membrane. <i>AIAA Journal</i> , 2020 , 58, 2388-2397	2.1	
28	Numerical Simulations of Serrated Propellers to Reduce Noise. <i>Lecture Notes in Computer Science</i> , 2020 , 87-103	0.9	0
27	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
26	Membrane-type acoustic metamaterial with eccentric masses for broadband sound isolation. <i>Applied Acoustics</i> , 2020 , 157, 107003	3.1	30
25	Mitigation of under-expanded supersonic jet noise through stepped nozzles. <i>Journal of Sound and Vibration</i> , 2019 , 459, 114875	3.9	4
24	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
23	Sound transmission through a periodic acoustic metamaterial grating. <i>Journal of Sound and Vibration</i> , 2019 , 449, 140-156	3.9	27
22	Origami-inspired foldable sound barrier designs. <i>Journal of Sound and Vibration</i> , 2019 , 442, 514-526	3.9	13
21	Quieter propeller with serrated trailing edge. <i>Applied Acoustics</i> , 2019 , 146, 227-236	3.1	11
20	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

19	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
18	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
17	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
16	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
15	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
14	Tunable acoustic metamaterial with an array of resonators actuated by dielectric elastomer. <i>Extreme Mechanics Letters</i> , 2017 , 12, 37-40	3.9	40
13	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
12	Aeroelastic responses identification of a high-aspect-ratio flexible wing model and its active flutter suppression strategy 2016 ,		3
11	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
10	Reduced-order modeling and flutter suppression control of an experimental wing 2016 ,		1
9	Active membrane-based silencer and its acoustic characteristics. <i>Applied Acoustics</i> , 2016 , 111, 39-48	3.1	20
8	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
7	A Tunable Dielectric Elastomer Acoustic Absorber. <i>Acta Acustica United With Acustica</i> , 2015 , 101, 863-866	1.5	23
6	A novel duct silencer using dielectric elastomer absorbers 2014 ,		1
5	Deformation of the Upper and Lower Surfaces of an Airfoil by Macro Fiber Composite Actuators 2013 ,		7
4	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
3	Active Control of Flow-Induced Acoustic Resonance Through Surface Perturbation. <i>AIAA Journal</i> , 2012 , 50, 2566-2573	2.1	5
2	Time-domain In Situ Characterization of Acoustic Liners in a Flow Duct. <i>AIAA Journal</i> , 2009 , 47, 1379-1387	1.1	5

1 Impedance Boundary Condition for Truncated Open Spaces. *AIAA Journal*, **2008**, 46, 1432-1441

2.1 2