Yong Li

List of Publications by Year in Descending Order

88 papers	4,601 citations	31 h-index	67 g-index
97 ext. papers	5,873 ext. citations	5 avg, IF	6.19 L-index

#	Paper	IF	Citations
88	Deep-subwavelength lightweight metastructures for low-frequency vibration isolation. *Materials and Design*, **2022**, 215, 110499	8.1	2
87	Ultrasparse and omnidirectional acoustic ventilated meta-barrier. *Applied Physics Letters*, **2022**, 120, 191701	3.4	1
86	Topological Supercavity Resonances in the Finite System.. *Advanced Science*, **2022**, e2200257	13.6	4
85	Experimental verification of the acoustic geometric phase. *Applied Physics Letters*, **2022**, 120, 211702	3.4	2
84	Lightweight sound-absorbing metastructures with perforated fish-belly panels. *International Journal of Mechanical Sciences*, **2022**, 226, 107396	5.5	1
83	Deep Learning Enables Accurate Sound Redistribution via Nonlocal Metasurfaces. *Physical Review Applied*, **2021**, 16,	4.3	6
82	Holographic tomography of dynamic three-dimensional acoustic vortex beam in liquid. *Applied Physics Letters*, **2021**, 119, 143501	3.4	1
81	Tunable asymmetric acoustic transmission via binary metasurface and zero-index metamaterials. *Applied Physics Letters*, **2021**, 118, 113501	3.4	5
80	Underwater Acoustic Stealth by a Broadband 2-Bit Coding Metasurface. *Physical Review Applied*, **2021**, 15,	4.3	3
79	Low-frequency multi-order acoustic absorber based on spiral metasurface. *Journal of the Acoustical Society of America*, **2021**, 150, 12	2.2	2
78	Compact asymmetric sound absorber at the exceptional point. *Science China: Physics, Mechanics and Astronomy*, **2021**, 64, 1	3.6	7
77	Topologically Protected Exceptional Point with Local Non-Hermitian Modulation in an Acoustic Crystal. *Physical Review Applied*, **2021**, 15,	4.3	5
76	Broadband sound attenuation by metaliner under grazing flow. *Applied Physics Letters*, **2021**, 118, 063504	3.4	3
75	Ultrabroadband Acoustic Ventilation Barriers via Hybrid-Functional Metasurfaces. *Physical Review Applied*, **2021**, 15,	4.3	11
74	Acoustic orbital angular momentum prism for efficient vortex perception. *Applied Physics Letters*, **2021**, 118, 071901	3.4	6
73	Induced transparency based subwavelength acoustic demultiplexers. *Journal Physics D: Applied Physics*, **2021**, 54, 175301	3	4
72	Acoustic Vortices via Nonlocal Metagratings. *Physical Review Applied*, **2021**, 16,	4.3	6

71	Acoustic skin meta-muffler. *Science China: Physics, Mechanics and Astronomy*, **2021**, 64, 1	3.6	4
70	Perfect absorption of flexural waves induced by bound state in the continuum. *Extreme Mechanics Letters*, **2021**, 47, 101364	3.9	3
69	Sound trapping in an open resonator. *Nature Communications*, **2021**, 12, 4819	17.4	9
68	Experimental realization of ultrasonic retroreflection tweezing via metagratings. *Ultrasonics*, **2021**, 117, 106548	3.5	3
67	A ventilating acoustic barrier for attenuating broadband diffuse sound. *Applied Physics Letters*, **2021**, 119, 263505	3.4	0
66	Observation of higher-order exceptional points in a non-local acoustic metagrating. *Communications Physics*, **2021**, 4,	5.4	3
65	Low-Frequency Broadband Acoustic Metasurface Absorbing Panels. *Frontiers in Mechanical Engineering*, **2020**, 6,	2.6	8
64	Tunable Double-Band Perfect Absorbers via Acoustic Metasurfaces with Nesting Helical Tracks. *Chinese Physics Letters*, **2020**, 37, 054301	1.8	6
63	Flexural wave absorption by lossy gradient elastic metasurface. *Journal of the Mechanics and Physics of Solids*, **2020**, 143, 104052	5	32
62	Achromatic reflected metalens for highly directional and long-distance acoustic probing. *New Journal of Physics*, **2020**, 22, 023006	2.9	6
61	Broadband Acoustic Ventilation Barriers. *Physical Review Applied*, **2020**, 13,	4.3	42
60	Low-frequency broadband absorbers based on coupling micro-perforated panel and space-curling chamber. *Chinese Science Bulletin*, **2020**, 65, 1420-1427	2.9	3
59	Probability-Density-Based Deep Learning Paradigm for the Fuzzy Design of Functional Metastructures. *Research*, **2020**, 2020, 8757403	7.8	11
58	Experimental demonstration of enhanced acoustic energy harvesting with a subwavelength metamaterial plate. *New Journal of Physics*, **2020**, 22, 123019	2.9	7
57	Compact broadband acoustic sink with coherently coupled weak resonances. *Science Bulletin*, **2020**, 65, 373-379	10.6	88
56	Dopant-modulated sound transmission with zero index acoustic metamaterials. *Journal of the Acoustical Society of America*, **2020**, 148, 1636	2.2	2
55	Improved Photoacoustic Imaging of Numerical Bone Model Based on Attention Block U-Net Deep Learning Network. *Applied Sciences (Switzerland)*, **2020**, 10, 8089	2.6	0
54	Topological Interface States in the Low-Frequency Band Gap of One-Dimensional Phononic Crystals. *Physical Review Applied*, **2020**, 14,	4.3	6

53	Extreme Sound Confinement From Quasibound States in the Continuum. *Physical Review Applied*, **2020**, 14,	4.3	13
52	Ultrasonic sharp autofocusing with acoustic metasurface. *Physical Review B*, **2020**, 102,	3.3	12
51	Perfect acoustic absorption by subwavelength metaporous composite. *Applied Physics Letters*, **2019** , 115, 093503	3.4	20
50	High-efficiency anomalous splitter by acoustic meta-grating. *Physical Review B*, **2019**, 100,	3.3	29
49	Highly Efficient Acoustic Metagrating with Strongly Coupled Surface Grooves. *Physical Review Applied*, **2019**, 12,	4.3	32
48	Acoustic perfect absorbers via Helmholtz resonators with embedded apertures. *Journal of the Acoustical Society of America*, **2019**, 145, 254	2.2	80
47	Engineered Diffraction Gratings for Acoustic Cloaking. *Physical Review Applied*, **2019**, 11,	4.3	31
46	Acoustic Splitting and Bending with Compact Coding Metasurfaces. *Physical Review Applied*, **2019**, 11,	4.3	9
45	Aerogels-filled Helmholtz resonators for enhanced low-frequency sound absorption. *Journal of Supercritical Fluids*, **2019**, 150, 103-111	4.2	6
44	Extreme low-frequency ultrathin acoustic absorbing metasurface. *Applied Physics Letters*, **2019**, 115, 173506	3.4	55
43	Distinction of Acoustically Induced Transparency and Autler-Townes Splitting by Helmholtz Resonators. *Physical Review Applied*, **2019**, 12,	4.3	7
42	Conformally Mapped Multifunctional Acoustic Metamaterial Lens for Spectral Sound Guiding and Talbot Effect. *Research*, **2019**, 2019, 1748537	7.8	7
41	Extremely Asymmetrical Acoustic Metasurface Mirror at the Exceptional Point. *Physical Review Letters*, **2019**, 123, 214302	7.4	50
40	Investigation of acoustic metasurfaces with constituent material properties considered. *Journal of Applied Physics*, **2018**, 123, 124905	2.5	16
39	Acoustic perfect absorbers via spiral metasurfaces with embedded apertures. *Applied Physics Letters*, **2018**, 113, 233501	3.4	82
38	Acoustic Multiband Double Negativity from Coupled Single-Negative Resonators. *Physical Review Applied*, **2018**, 10,	4.3	13
37	Acoustic metasurfaces. *Nature Reviews Materials*, **2018**, 3, 460-472	73.3	290
36	Simultaneous Observation of a Topological Edge State and Exceptional Point in an Open and Non-Hermitian Acoustic System. *Physical Review Letters*, **2018**, 121, 124501	7.4	93

35	Acoustic metamaterials and metasurfaces: a transformative approach for phononic insulators and energy harvesting **2017**,		3
34	Thermoviscous effects on sound transmission through a metasurface of hybrid resonances. *Journal of the Acoustical Society of America*, **2017**, 141, EL363	2.2	31
33	Tunable sub-wavelength acoustic energy harvesting with a metamaterial plate. *Journal Physics D: Applied Physics*, **2017**, 50, 315104	3	51
32	Broadband acoustic skin cloak based on spiral metasurfaces. *Scientific Reports*, **2017**, 7, 11604	4.9	28
31	Tunable Asymmetric Transmission via Lossy Acoustic Metasurfaces. *Physical Review Letters*, **2017**, 119, 035501	7.4	208
30	Acoustic Focusing and Energy Confinement Based on Multilateral Metasurfaces. *Physical Review Applied*, **2017**, 7,	4.3	82
29	Convert Acoustic Resonances to Orbital Angular Momentum. *Physical Review Letters*, **2016**, 117, 034301	7.4	183
28	Theory of metascreen-based acoustic passive phased array. *New Journal of Physics*, **2016**, 18, 043024	2.9	83
27	Acoustic energy harvesting based on a planar acoustic metamaterial. *Applied Physics Letters*, **2016**, 108, 263501	3.4	102
26	Acoustic metasurface-based perfect absorber with deep subwavelength thickness. *Applied Physics Letters*, **2016**, 108, 063502	3.4	352
25	Broadband Lamb wave trapping in cellular metamaterial plates with multiple local resonances. *Scientific Reports*, **2015**, 5, 9376	4.9	19
24	Experimental realization of broadband acoustic omnidirectional absorber by homogeneous anisotropic metamaterials. *Journal of Applied Physics*, **2015**, 117, 074502	2.5	22
23	Active control of membrane-type acoustic metamaterial by electric field. *Applied Physics Letters*, **2015**, 106, 091904	3.4	104
22	Sound absorption by subwavelength membrane structures: A geometric perspective. *Comptes Rendus - Mecanique*, **2015**, 343, 635-644	2.1	60
21	Subwavelength total acoustic absorption with degenerate resonators. *Applied Physics Letters*, **2015**, 107, 104104	3.4	157
20	Metascreen-Based Acoustic Passive Phased Array. *Physical Review Applied*, **2015**, 4,	4.3	227
19	One-way acoustic mirror based on anisotropic zero-index media. *Applied Physics Letters*, **2015**, 107, 213503	3.4	17
18	Three-dimensional collimated self-accelerating beam through acoustic metascreen. *Scientific Reports*, **2015**, 5, 17612	4.9	30

17	Three-dimensional ultrathin planar lenses by acoustic metamaterials. *Scientific Reports*, **2014**, 4, 6830	4.9	110
16	Experimental Realization of Full Control of Reflected Waves with Subwavelength Acoustic Metasurfaces. *Physical Review Applied*, **2014**, 2,	4.3	284
15	Unidirectional acoustic transmission through a prism with near-zero refractive index. *Applied Physics Letters*, **2013**, 103, 053505	3.4	134
14	Surface acoustic waves in a two-dimensional phononic crystal slab with locally resonant units. *Solid State Communications*, **2013**, 173, 19-23	1.6	2
13	Reflected wavefront manipulation based on ultrathin planar acoustic metasurfaces. *Scientific Reports*, **2013**, 3, 2546	4.9	364
12	Extraordinary acoustic transmission through ultrathin acoustic metamaterials by coiling up space. *Applied Physics Letters*, **2013**, 103, 063509	3.4	99
11	Broadband asymmetric acoustic transmission in a gradient-index structure. *Applied Physics Letters*, **2012**, 101, 263502	3.4	66
10	Analysis of surface acoustic wave propagation in a two-dimensional phononic crystal. *Journal of Applied Physics*, **2012**, 112, 023524	2.5	19
9	Scattering reduction for an acoustic sensor using a multilayered shell comprising a pair of homogeneous isotropic single-negative media. *Applied Physics Letters*, **2012**, 101, 033509	3.4	19
8	Unidirectional acoustic transmission based on source pattern reconstruction. *Journal of Applied Physics*, **2012**, 112, 064504	2.5	36
7	Acoustic focusing by coiling up space. *Applied Physics Letters*, **2012**, 101, 233508	3.4	232
6	Broadband Acoustic Transmission Enhancement through a Structured Stiff Plate with Locally Resonant Elements. *Chinese Physics Letters*, **2012**, 29, 114301	1.8	7
5	A broadband acoustic omnidirectional absorber comprising positive-index materials. *Applied Physics Letters*, **2011**, 99, 193507	3.4	67
4	Symmetric and Anti-Symmetric Lamb Waves in a Two-Dimensional Phononic Crystal Plate. *Chinese Physics Letters*, **2010**, 27, 074303	1.8	9
3	A sonic band gap based on the locally resonant phononic plates with stubs. *New Journal of Physics*, **2010**, 12, 083049	2.9	221
2	Recent advances in acoustic ventilation barriers. *Journal Physics D: Applied Physics*,	3	5
1	Broadband impedance modulation via non-local acoustic metamaterials. *National Science Review*,	10.8	18