Zixian Liang

List of Publications by Citations

38 papers	1,355 citations	17 h-index	36 g-index
40 ext. papers	1,603 ext. citations	3.7 avg, IF	4.86 L-index

#	Paper	IF	Citations
38	Extreme acoustic metamaterial by coiling up space. *Physical Review Letters*, **2012**, 108, 114301	7.4	520
37	Space-coiling metamaterials with double negativity and conical dispersion. *Scientific Reports*, **2013**, 3, 1614	4.9	113
36	Extending the bandwidth of electromagnetic cloaks. *Physical Review B*, **2007**, 76,	3.3	108
35	Source Illusion Devices for Flexural Lamb Waves Using Elastic Metasurfaces. *Physical Review Letters*, **2017**, 119, 034301	7.4	89
34	Tailoring electromagnetically induced transparency for terahertz metamaterials: From diatomic to triatomic structural molecules. *Applied Physics Letters*, **2013**, 103, 021115	3.4	63
33	All-dielectric hollow nanodisk for tailoring magnetic dipole emission. *Optics Letters*, **2016**, 41, 5011-5014	3	59
32	The physical picture and the essential elements of the dynamical process for dispersive cloaking structures. *Applied Physics Letters*, **2008**, 92, 131118	3.4	45
31	Manipulating polarization and impedance signature: a reciprocal field transformation approach. *Physical Review Letters*, **2013**, 111, 033901	7.4	42
30	Limitation of the electromagnetic cloak with dispersive material. *Applied Physics Letters*, **2008**, 92, 031113	3.4	36
29	Tunable acoustic double negativity metamaterial. *Scientific Reports*, **2012**, 2, 859	4.9	32
28	Elastic Waves in Curved Space: Mimicking a Wormhole. *Physical Review Letters*, **2018**, 121, 234301	7.4	30
27	Broadband absorption enhancement in anisotropic metamaterials by mirror reflections. *Physical Review B*, **2009**, 80,	3.3	25
26	Isotropic Magnetic Purcell Effect. *ACS Photonics*, **2018**, 5, 678-683	6.3	25
25	Scaling two-dimensional photonic crystals for transformation optics. *Optics Express*, **2011**, 19, 16821-9	3.3	20
24	Hyper-interface, the bridge between radiative wave and evanescent wave. *Applied Physics Letters*, **2010**, 96, 113507	3.4	19
23	Willis Metamaterial on a Structured Beam. *Physical Review X*, **2019**, 9,	9.1	18
22	Unidirectional emission in an all-dielectric nanoantenna. *Journal of Physics Condensed Matter*, **2018**, 30, 124002	1.8	17

21	Metadevices for the confinement of sound and broadband double-negativity behavior. *Physical Review B*, **2013**, 88,	3.3	17
20	All-angle zero reflection at metamaterial surfaces. *Applied Physics Letters*, **2008**, 93, 171111	3.4	13
19	Bandwidth and resolution of super-resolution imaging with perforated solids. *AIP Advances*, **2011**, 1, 041503	1.5	11
18	An acoustic beam shifter with enhanced transmission using perforated metamaterials. *Europhysics Letters*, **2015**, 109, 14004	1.6	9
17	Bending a periodically layered structure for transformation acoustics. *Applied Physics Letters*, **2011**, 98, 241914	3.4	9
16	Sporadic-Slot Photonic-Crystal Waveguide for All-Optical Buffers With Low-Dispersion, Distortion, and Insertion Loss. *IEEE Access*, **2020**, 8, 77689-77700	3.5	7
15	Transformation media with variable optical axes. *New Journal of Physics*, **2012**, 14, 103042	2.9	4
14	Minimal model for spoof acoustoelastic surface states. *AIP Advances*, **2014**, 4, 124301	1.5	3
13	Remote control of light behavior by transformation optical devices. *Optics Express*, **2010**, 18, 2049-55	3.3	3
12	An ultra-thin isotropic metamaterial thermal radiator. *Europhysics Letters*, **2011**, 96, 24005	1.6	3
11	Laplace metasurfaces for optical analog computing based on quasi-bound states in the continuum. *Photonics Research*, **2021**, 9, 1758	6	3
10	Ultrathin conductive coating effects on the magnetic and electric resonances of silicon nanoparticles. *Journal of the Optical Society of America B: Optical Physics*, **2017**, 34, 653	1.7	2
9	Mechanical Properties of Laminate Materials: From Surface Waves to Bloch Oscillations. *Physical Review Applied*, **2015**, 4,	4.3	2
8	Artificial Kerr-type medium using metamaterials. *Optics Express*, **2012**, 20, 8543-50	3.3	2
7	Manipulating light scattering by nanoparticles with magnetoelectric coupling. *Physical Review B*, **2020**, 102,	3.3	2
6	Acoustic Pulling with a Single Incident Plane Wave. *Physical Review Applied*, **2020**, 14,	4.3	2
5	Constructing metamaterials from subwavelength pixels with constant indices product. *Optics Express*, **2015**, 23, 7140-51	3.3	1
4	Anisotropic Metamaterials for Transformation Acoustics and Imaging. *Springer Series in Materials Science*, **2013**, 169-195	0.9	1

3	Dynamic study and applications of metamaterial systems. *Frontiers of Physics*, **2011**, 6, 74-95	3.7
2	Numerical Study on Light Localization in Impedance-Matched Meta-Material Random Systems. *Chinese Physics Letters*, **2010**, 27, 034206	1.8
1	The Dynamical Study of the Metamaterial Systems **2010**, 183-214	