Zixian Liang

List of Publications by Year
in descending order

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39 papers	1,824 citations	430754 18 h-index	360920 35 g-index
40 all docs	40 docs citations	40 times ranked	1484 citing authors

#	Article	IF	Citations
1	Extreme Acoustic Metamaterial by Coiling Up Space. Physical Review Letters, 2012, 108, 114301.	2.9	705
2	Space-coiling metamaterials with double negativity and conical dispersion. Scientific Reports, 2013, 3, 1614.	1.6	146
3	Source Illusion Devices for Flexural Lamb Waves Using Elastic Metasurfaces. Physical Review Letters, 2017, 119, 034301.	2.9	138
4	Extending the bandwidth of electromagnetic cloaks. Physical Review B, 2007, 76, .	1.1	126
5	All-dielectric hollow nanodisk for tailoring magnetic dipole emission. Optics Letters, 2016, 41, 5011.	1.7	80
6	Tailoring electromagnetically induced transparency for terahertz metamaterials: From diatomic to triatomic structural molecules. Applied Physics Letters, 2013, 103, 021115.	1.5	76
7	Elastic Waves in Curved Space: Mimicking a Wormhole. Physical Review Letters, 2018, 121, 234301.	2.9	54
8	Manipulating Polarization and Impedance Signature: A Reciprocal Field Transformation Approach. Physical Review Letters, 2013, 111, 033901.	2.9	51
9	The physical picture and the essential elements of the dynamical process for dispersive cloaking structures. Applied Physics Letters, 2008, 92, .	1.5	48
10	Willis Metamaterial on a Structured Beam. Physical Review X, 2019, 9, .	2.8	41
11	Isotropic Magnetic Purcell Effect. ACS Photonics, 2018, 5, 678-683.	3.2	40
12	Limitation of the electromagnetic cloak with dispersive material. Applied Physics Letters, 2008, 92, .	1.5	39
13	Laplace metasurfaces for optical analog computing based on quasi-bound states in the continuum. Photonics Research, 2021, 9, 1758.	3.4	36
14	Tunable acoustic double negativity metamaterial. Scientific Reports, 2012, 2, 859.	1.6	35
15	Broadband absorption enhancement in anisotropic metamaterials by mirror reflections. Physical Review B, 2009, 80, .	1.1	31
16	Unidirectional emission in an all-dielectric nanoantenna. Journal of Physics Condensed Matter, 2018, 30, 124002.	0.7	23
17	Scaling two-dimensional photonic crystals for transformation optics. Optics Express, 2011, 19, 16821.	1.7	21
18	Hyper-interface, the bridge between radiative wave and evanescent wave. Applied Physics Letters, 2010, 96, 113507.	1.5	20

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19	Metadevices for the confinement of sound and broadband double-negativity behavior. Physical Review B, 2013, 88, .	1.1	18
20	All-angle zero reflection at metamaterial surfaces. Applied Physics Letters, 2008, 93, .	1.5	16
21	Bandwidth and resolution of super-resolution imaging with perforated solids. AIP Advances, 2011, 1, .	0.6	11
22	An acoustic beam shifter with enhanced transmission using perforated metamaterials. Europhysics Letters, 2015, 109, 14004.	0.7	11
23	Sporadic-Slot Photonic-Crystal Waveguide for All-Optical Buffers With Low-Dispersion, Distortion, and Insertion Loss. IEEE Access, 2020, 8, 77689-77700.	2.6	10
24	Bending a periodically layered structure for transformation acoustics. Applied Physics Letters, 2011, 98, 241914.	1.5	9
25	Manipulating light scattering by nanoparticles with magnetoelectric coupling. Physical Review B, 2020, 102, .	1.1	7
26	An ultra-thin isotropic metamaterial thermal radiator. Europhysics Letters, 2011, 96, 24005.	0.7	6
27	Transformation media with variable optical axes. New Journal of Physics, 2012, 14, 103042.	1.2	5
28	Acoustic Pulling with a Single Incident Plane Wave. Physical Review Applied, 2020, 14, .	1.5	5
29	Remote control of light behavior by transformation optical devices. Optics Express, 2010, 18, 2049.	1.7	3
30	Artificial Kerr-type medium using metamaterials. Optics Express, 2012, 20, 8543.	1.7	3
31	Minimal model for spoof acoustoelastic surface states. AIP Advances, 2014, 4, 124301.	0.6	3
32	Anisotropic Metamaterials for Transformation Acoustics and Imaging. Springer Series in Materials Science, 2013, , 169-195.	0.4	2
33	Mechanical Properties of Laminate Materials: From Surface Waves to Bloch Oscillations. Physical Review Applied, 2015, 4, .	1.5	2
34	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.	0.9	2
35	Constructing metamaterials from subwavelength pixels with constant indices product. Optics Express, 2015, 23, 7140.	1.7	1
36	Numerical Study on Light Localization in Impedance-Matched Meta-Material Random Systems. Chinese Physics Letters, 2010, 27, 034206.	1.3	0

#	Article	IF	Citations
37	Dynamic study and applications of metamaterial systems. Frontiers of Physics, 2011, 6, 74-95.	2.4	0
38	Experimental demonstration of acoustic and electromagnetic metamaterials with conical dispersion. , 2013, , .		0
39	The Dynamical Study of the Metamaterial Systems. , 2010, , 183-214.		0