# Zixian Liang

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 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 | Laplace metasurfaces for optical analog computing based on quasi-bound states in the continuum. *Photonics Research*, **2021**, 9, 1758 | 6 | 3 |
| 37 | 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 |
| 36 | Manipulating light scattering by nanoparticles with magnetoelectric coupling. *Physical Review B*, **2020**, 102, | 3.3 | 2 |
| 35 | Acoustic Pulling with a Single Incident Plane Wave. *Physical Review Applied*, **2020**, 14, | 4.3 | 2 |
| 34 | Willis Metamaterial on a Structured Beam. *Physical Review X*, **2019**, 9, | 9.1 | 18 |
| 33 | Unidirectional emission in an all-dielectric nanoantenna. *Journal of Physics Condensed Matter*, **2018**, 30, 124002 | 1.8 | 17 |
| 32 | Isotropic Magnetic Purcell Effect. *ACS Photonics*, **2018**, 5, 678-683 | 6.3 | 25 |
| 31 | Elastic Waves in Curved Space: Mimicking a Wormhole. *Physical Review Letters*, **2018**, 121, 234301 | 7.4 | 30 |
| 30 | 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 |
| 29 | Source Illusion Devices for Flexural Lamb Waves Using Elastic Metasurfaces. *Physical Review Letters*, **2017**, 119, 034301 | 7.4 | 89 |
| 28 | All-dielectric hollow nanodisk for tailoring magnetic dipole emission. *Optics Letters*, **2016**, 41, 5011-5014 | 3 | 59 |
| 27 | Constructing metamaterials from subwavelength pixels with constant indices product. *Optics Express*, **2015**, 23, 7140-51 | 3.3 | 1 |
| 26 | Mechanical Properties of Laminate Materials: From Surface Waves to Bloch Oscillations. *Physical Review Applied*, **2015**, 4, | 4.3 | 2 |
| 25 | An acoustic beam shifter with enhanced transmission using perforated metamaterials. *Europhysics Letters*, **2015**, 109, 14004 | 1.6 | 9 |
| 24 | Minimal model for spoof acoustoelastic surface states. *AIP Advances*, **2014**, 4, 124301 | 1.5 | 3 |
| 23 | Manipulating polarization and impedance signature: a reciprocal field transformation approach. *Physical Review Letters*, **2013**, 111, 033901 | 7.4 | 42 |
| 22 | Anisotropic Metamaterials for Transformation Acoustics and Imaging. *Springer Series in Materials Science*, **2013**, 169-195 | 0.9 | 1 |

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| 21 | Metadevices for the confinement of sound and broadband double-negativity behavior. *Physical Review B*, **2013**, 88, | 3.3 | 17 |
| 20 | Tailoring electromagnetically induced transparency for terahertz metamaterials: From diatomic to triatomic structural molecules. *Applied Physics Letters*, **2013**, 103, 021115 | 3.4 | 63 |
| 19 | Space-coiling metamaterials with double negativity and conical dispersion. *Scientific Reports*, **2013**, 3, 1614 | 4.9 | 113 |
| 18 | Extreme acoustic metamaterial by coiling up space. *Physical Review Letters*, **2012**, 108, 114301 | 7.4 | 520 |
| 17 | Transformation media with variable optical axes. *New Journal of Physics*, **2012**, 14, 103042 | 2.9 | 4 |
| 16 | Artificial Kerr-type medium using metamaterials. *Optics Express*, **2012**, 20, 8543-50 | 3.3 | 2 |
| 15 | Tunable acoustic double negativity metamaterial. *Scientific Reports*, **2012**, 2, 859 | 4.9 | 32 |
| 14 | Bending a periodically layered structure for transformation acoustics. *Applied Physics Letters*, **2011**, 98, 241914 | 3.4 | 9 |
| 13 | Scaling two-dimensional photonic crystals for transformation optics. *Optics Express*, **2011**, 19, 16821-9 | 3.3 | 20 |
| 12 | Bandwidth and resolution of super-resolution imaging with perforated solids. *AIP Advances*, **2011**, 1, 041503 | 1.5 | 11 |
| 11 | Dynamic study and applications of metamaterial systems. *Frontiers of Physics*, **2011**, 6, 74-95 | 3.7 | |
| 10 | An ultra-thin isotropic metamaterial thermal radiator. *Europhysics Letters*, **2011**, 96, 24005 | 1.6 | 3 |
| 9 | Numerical Study on Light Localization in Impedance-Matched Meta-Material Random Systems. *Chinese Physics Letters*, **2010**, 27, 034206 | 1.8 | |
| 8 | Hyper-interface, the bridge between radiative wave and evanescent wave. *Applied Physics Letters*, **2010**, 96, 113507 | 3.4 | 19 |
| 7 | Remote control of light behavior by transformation optical devices. *Optics Express*, **2010**, 18, 2049-55 | 3.3 | 3 |
| 6 | The Dynamical Study of the Metamaterial Systems **2010**, 183-214 | | |
| 5 | Broadband absorption enhancement in anisotropic metamaterials by mirror reflections. *Physical Review B*, **2009**, 80, | 3.3 | 25 |
| 4 | The physical picture and the essential elements of the dynamical process for dispersive cloaking structures. *Applied Physics Letters*, **2008**, 92, 131118 | 3.4 | 45 |

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| 3 | All-angle zero reflection at metamaterial surfaces. *Applied Physics Letters*, **2008**, 93, 171111 | 3.4 | 13 |
| 2 | Limitation of the electromagnetic cloak with dispersive material. *Applied Physics Letters*, **2008**, 92, 031113 | 3.4 | 36 |
| 1 | Extending the bandwidth of electromagnetic cloaks. *Physical Review B*, **2007**, 76, | 3.3 | 108 |