

# Haitao Jiang

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

2,503  
citations

186265

28  
h-index

197818

49  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1292  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Omnidirectional gap and defect mode of one-dimensional photonic crystals containing negative-index materials. <i>Applied Physics Letters</i> , 2003, 83, 5386-5388.   | 3.3  | 320       |
| 2  | Properties of one-dimensional photonic crystals containing single-negative materials. <i>Physical Review E</i> , 2004, 69, 066607.  | 2.1  | 265       |
| 3  | Hyperbolic metamaterials: From dispersion manipulation to applications. <i>Journal of Applied Physics</i> , 2020, 127, .  | 2.5  | 157       |
| 4  | Giant Enhancement of the Goos-Hänchen Shift Assisted by Quasibound States in the Continuum. <i>Physical Review Applied</i> , 2019, 12, .  | 3.8  | 139       |
| 5  | Redshift gaps in one-dimensional photonic crystals containing hyperbolic metamaterials. <i>Physical Review Applied</i> , 2018, 10, .  | 3.8  | 92        |
| 6  | Tunneling modes of photonic heterostructures consisting of single-negative materials. <i>Applied Physics Letters</i> , 2006, 88, 211112.  | 3.3  | 76        |
| 7  | Enhancement of electromagnetically induced transparency in metamaterials using long range coupling mediated by a hyperbolic material. <i>Optics Express</i> , 2018, 26, 627.  | 3.4  | 66        |
| 8  | Experimental investigation of interface states in photonic crystal heterostructures. <i>Physical Review E</i> , 2008, 78, 026607.   | 2.1  | 64        |
| 9  | Electromagnetic diode based on nonlinear electromagnetically induced transparency in metamaterials. <i>Applied Physics Letters</i> , 2013, 103, .   | 3.3  | 58        |
| 10 | Anomalous unidirectional excitation of high-k hyperbolic modes using all-electric metasources. <i>Advanced Photonics</i> , 2021, 3, .   | 11.8 | 56        |
| 11 | Electromagnetically induced transparency in metamaterials: Influence of intrinsic loss and dynamic evolution. <i>Physical Review B</i> , 2011, 83, .  | 3.2  | 51        |
| 12 | Dual quasibound states in the continuum in compound grating waveguide structures for large positive and negative Goos-Hänchen shifts with perfect reflection. <i>Physical Review A</i> , 2021, 104, .                       | 2.5  | 51        |
| 13 | Perfect optical absorbers in a wide range of incidence by photonic heterostructures containing layered hyperbolic metamaterials. <i>Optics Express</i> , 2019, 27, 5326.  | 3.4  | 48        |
| 14 | Controlling the spectral width in compound waveguide grating structures. <i>Optics Letters</i> , 2013, 38, 163.   | 3.3  | 46        |
| 15 | Experimental demonstration of angle-independent gaps in one-dimensional photonic crystals containing layered hyperbolic metamaterials and dielectrics at visible wavelengths. <i>Applied Physics Letters</i> , 2018, 112, . | 3.3  | 45        |
| 16 | Electromagnetic tunneling in a sandwich structure containing single negative media. <i>Physical Review E</i> , 2009, 79, 026601.  | 2.1  | 42        |
| 17 | Compact high-Q filters based on one-dimensional photonic crystals containing single-negative materials. <i>Journal of Applied Physics</i> , 2005, 98, 013101.   | 2.5  | 41        |
| 18 | Photonic Spin Hall Effect in Waveguides Composed of Two Types of Single-Negative Metamaterials. <i>Scientific Reports</i> , 2017, 7, 7742.  | 3.3  | 40        |

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|----|---|-----|-----------|
| 19 | Wireless Power Transfer via Topological Modes in Dimer Chains. <i>Physical Review Applied</i> , 2021, 15, .   | 3.8 | 39        |
| 20 | Significant enhancement of magneto-optical effect in one-dimensional photonic crystals with a magnetized epsilon-near-zero defect. <i>Journal of Applied Physics</i> , 2018, 124, . | 2.5 | 38        |
| 21 | Zak phase and band inversion in dimerized one-dimensional locally resonant metamaterials. <i>Physical Review B</i> , 2018, 97, .  | 3.2 | 35        |
| 22 | Sensitivity of topological edge states in a non-Hermitian dimer chain. <i>Photonics Research</i> , 2021, 9, 574.  | 7.0 | 34        |
| 23 | Valley-dependent beams controlled by pseudomagnetic field in distorted photonic graphene. <i>Optics Letters</i> , 2015, 40, 3380.   | 3.3 | 33        |
| 24 | Zero-index and hyperbolic metacavities: fundamentals and applications. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 083001.  | 2.8 | 33        |
| 25 | Experimental demonstration of the robust edge states in a split-ring-resonator chain. <i>Optics Express</i> , 2018, 26, 12891.  | 3.4 | 32        |
| 26 | Observation of Giant Extrinsic Chirality Empowered by Quasi-Bound States in the Continuum. <i>Physical Review Applied</i> , 2021, 16, .   | 3.8 | 32        |
| 27 | Observation of a Topological Edge State in the X-ray Band. <i>Laser and Photonics Reviews</i> , 2019, 13, 1800339.  | 8.7 | 31        |
| 28 | Loss-induced topological transition of dispersion in metamaterials. <i>Journal of Applied Physics</i> , 2016, 119, .  | 2.5 | 30        |
| 29 | Focusing and Super-Resolution with Partial Cloaking Based on Linear-Crossing Metamaterials. <i>Physical Review Applied</i> , 2018, 10, .  | 3.8 | 30        |
| 30 | Topological description for gaps of one-dimensional symmetric all-dielectric photonic crystals. <i>Optics Express</i> , 2016, 24, 18580.  | 3.4 | 27        |
| 31 | Designing All-Electric Subwavelength Metasources for Near-Field Photonic Routings. <i>Physical Review Letters</i> , 2020, 125, 157401.  | 7.8 | 27        |
| 32 | Enhancement of Faraday rotation effect in heterostructures with magneto-optical metals. <i>Journal of Applied Physics</i> , 2010, 107, .  | 2.5 | 26        |
| 33 | Giant Goos-Hänchen shift with a high reflectance assisted by interface states in photonic heterostructures. <i>Physical Review A</i> , 2020, 101, .                                 | 2.5 | 26        |
| 34 | Wide-angle ultrasensitive biosensors based on edge states in heterostructures containing hyperbolic metamaterials. <i>Optics Express</i> , 2019, 27, 24835.                         | 3.4 | 26        |
| 35 | Observation of topological bound states in a double Su-Schrieffer-Heeger chain composed of split ring resonators. <i>Physical Review Research</i> , 2021, 3, .                      | 3.6 | 25        |
| 36 | Actively Controlling the Topological Transition of Dispersion Based on Electrically Controllable Metamaterials. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 596.               | 2.5 | 24        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Localized gap-edge fields of one-dimensional photonic crystals with an $\hat{\mu}$ -negative and $\hat{\epsilon}^{1/4}$ -negative defect. Physical Review E, 2006, 73, 046601. | 2.1 | 23        |
| 38 | Seeing topological winding number and band inversion in photonic dimer chain of split-ring resonators. Physical Review B, 2020, 101, .   | 3.2 | 22        |
| 39 | Experimental verification of loss-induced field enhancement and collimation in anisotropic $\hat{\epsilon}^{1/4}$ -near-zero metamaterials. Physical Review B, 2015, 91, .     | 3.2 | 21        |
| 40 | Tailoring electromagnetic responses in a coupled-grating system with combined modulation of near-field and far-field couplings. Physical Review B, 2022, 105, .                | 3.2 | 21        |
| 41 | Multichanneled filter based on a branchy defect in microstrip photonic crystal. Applied Physics Letters, 2006, 88, 081106.   | 3.3 | 19        |
| 42 | Optical Tamm states in hetero-structures with highly dispersive planar plasmonic metamaterials. Applied Physics Letters, 2013, 102, .  | 3.3 | 17        |
| 43 | Actively controlled asymmetric edge states for directional wireless power transfer. Optics Express, 2021, 29, 7844.  | 3.4 | 16        |
| 44 | Circuit-Based Magnetic Hyperbolic Cavities. Physical Review Applied, 2020, 13, .   | 3.8 | 15        |
| 45 | Ultra-sensitive passive wireless sensor exploiting high-order exceptional point for weakly coupling detection. New Journal of Physics, 2021, 23, 063008.                       | 2.9 | 15        |
| 46 | Omnidirectional nonreciprocal absorber realized by the magneto-optical hypercrystal. Optics Express, 2022, 30, 12104.  | 3.4 | 15        |
| 47 | Linear-crossing metamaterials mimicked by multi-layers with two kinds of single negative materials. JPhys Photonics, 2020, 2, 011001.  | 4.6 | 14        |
| 48 | Rotation controlled topological edge states in a trimer chain composed of meta-atoms. New Journal of Physics, 2022, 24, 063001.  | 2.9 | 14        |
| 49 | Experimental demonstration of the magnetic field concentration effect in circuit-based magnetic near-zero index media. Optics Express, 2020, 28, 17064.                        | 3.4 | 11        |
| 50 | Abnormal Wave Propagation in Tilted Linear-Crossing Metamaterials. Advanced Photonics Research, 2021, 2, 2000071.  | 3.6 | 10        |
| 51 | Efficient and stable wireless power transfer based on the non-Hermitian physics. Chinese Physics B, 2022, 31, 010307.  | 1.4 | 10        |
| 52 | Light tunneling effect tuned by a meta-interface with electromagnetically-induced-transparency-like properties. Applied Physics Letters, 2013, 102, .                          | 3.3 | 7         |
| 53 | Effective optical nihility media realized by one-dimensional photonic crystals containing hyperbolic metamaterials. Optics Express, 2020, 28, 33198.                           | 3.4 | 7         |
| 54 | Microwave collimation based on zero index metamaterials with Dirac point. Optics Letters, 2012, 37, 4654.  | 3.3 | 6         |

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|----|--|-----|-----------|
| 55 | Miniaturized Backward Coupler Realized by the Circuit-Based Planar Hyperbolic Waveguide. <i>Advanced Photonics Research</i> , 2021, 2, 2100035.                                      | 3.6 | 6         |
| 56 | Photonic Dirac nodal-line semimetals realized by a hypercrystal. <i>Physical Review Research</i> , 2022, 4, .  | 3.6 | 6         |
| 57 | Acoustic Beam Splitting and Cloaking Based on a Compressibility-Near-Zero Medium. <i>Physical Review Applied</i> , 2022, 17, .   | 3.8 | 5         |
| 58 | Significant enhancement of magnetic shielding effect by using the composite metamaterial composed of mu-near-zero media and ferrite. <i>EPJ Applied Metamaterials</i> , 2021, 8, 13. | 1.5 | 4         |
| 59 | Quantum well effect based on hybridization bandgap in deep subwavelength coupled meta-atoms. <i>Physica B: Condensed Matter</i> , 2015, 472, 1-5.                                    | 2.7 | 3         |
| 60 | Reconfigurable magnetic near-field distributions based on the coding metasurfaces in MHz band. <i>Optics Express</i> , 2021, 29, 13908.  | 3.4 | 3         |
| 61 | Zero-reflection metal slabs: A mechanism of light tunneling in metamaterials. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 103, 567-570.                       | 2.3 | 2         |
| 62 | Tuning the hybridization bandgap by meta-molecules with in-unit interaction. <i>Journal of Applied Physics</i> , 2015, 118, .  | 2.5 | 2         |
| 63 | Ultra-broadband near-field magnetic shielding realized by the Halbach-like structure. <i>Applied Physics Letters</i> , 2022, 120, .  | 3.3 | 2         |
| 64 | Collective coupling of randomly dispersed oscillators with cavities filled with zero-index metamaterials. <i>European Physical Journal B</i> , 2014, 87, 1.                          | 1.5 | 1         |
| 65 | Photonic Bandgaps of One-Dimensional Photonic Crystals Containing Anisotropic Chiral Metamaterials. <i>Photonics</i> , 2022, 9, 411.   | 2.0 | 1         |
| 66 | Composite High-Q Microstrip Resonator Using Effective Highly Dispersive Materials. , 2006, , .   |     | 0         |
| 67 | Light Tunneling In Multilayer Structures Consisting of Single-Negative Materials. , 2007, , .  |     | 0         |
| 68 | Dispersionless slow wave in waveguides composed of two types of single-negative metamaterials. , 2017, , .   |     | 0         |