

Hongyu Shi

List of Publications by Year in descending order

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81
times ranked

1016
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | A Time-Modulated Transparent Nonlinear Active Metasurface for Spatial Frequency Mixing. <i>Materials</i> , 2022, 15, 873. | 2.9 | 1 |
| 2 | Six-Mode Orbital Angular Momentum Generator Enabled by Helicity-Assisted Full-Space Metasurface with Flexible Manipulation of Phase, Polarization, and Spatial Information. <i>Advanced Optical Materials</i> , 2022, 10, . | 7.3 | 23 |
| 3 | Valley topological line-defects for Terahertz waveguides and power divider. <i>Optical Materials</i> , 2022, 126, 112152. | 3.6 | 7 |
| 4 | Transmission-Reflection-Integrated Metasurfaces Design for Simultaneous Manipulation of Phase and Amplitude. <i>IEEE Transactions on Antennas and Propagation</i> , 2022, 70, 6072-6077. | 5.1 | 7 |
| 5 | Transmission-type 1-bit coding metasurfaces with linear-to-circular polarization conversion using coupling-propagation-decoupling unit cells. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2022, 32, . | 1.2 | 1 |
| 6 | Shape-programmable, deformation-locking, and self-sensing artificial muscle based on liquid crystal elastomer and low-melting point alloy. <i>Science Advances</i> , 2022, 8, eabn5722. | 10.3 | 46 |
| 7 | Arbitrary polarization angle and wavefront manipulation of linearly polarized waves using PB phase. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 335105. | 2.8 | 1 |
| 8 | Dynamic radiation steering with transmission-type coding metasurface. <i>Optics Express</i> , 2022, 30, 28038. | 3.4 | 4 |
| 9 | High-Efficiency Conversion From Rectangular Waveguide Mode to Spoof SPP Using Metasurface. <i>IEEE Photonics Technology Letters</i> , 2022, 34, 783-786. | 2.5 | 0 |
| 10 | Band-Pass Filtering Cross-Polarization Converter Using Transmitarrays. <i>Materials</i> , 2021, 14, 2109. | 2.9 | 4 |
| 11 | Design of Wideband Bandpass Filter Based on Corrugated Disk Resonator with Multiple Resonant Modes. <i>Materials</i> , 2021, 14, 2614. | 2.9 | 0 |
| 12 | Metamaterial-inspired optically transparent active dual-band frequency selective surface with independent wideband tunability. <i>Optics Express</i> , 2021, 29, 27542. | 3.4 | 11 |
| 13 | SBL-Based 2-D DOA Estimation for L-Shaped Array With Unknown Mutual Coupling. <i>IEEE Access</i> , 2021, 9, 70071-70079. | 4.2 | 4 |
| 14 | Waveguide Coupler in Designer Surface Plasmon using Topological edge states. , 2021, , . | | 0 |
| 15 | Orbital Angular Momentum Multiplexing in Highly Reverberant Environments. <i>IEEE Microwave and Wireless Components Letters</i> , 2020, 30, 112-115. | 3.2 | 66 |
| 16 | Evaluation of the Purity of OAM Modes Using the Reverberation Chamber Technique. , 2020, , . | | 1 |
| 17 | Metasurfaces for Generating Focusing Vortex Beam. , 2020, , . | | 1 |
| 18 | Generation of a microwave beam with both orbital and spin angular momenta using a transparent metasurface. <i>Journal of Applied Physics</i> , 2019, 126, . | 2.5 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Characterization of GaN Diodes at Microwave Frequencies using Coupled Resonator. , 2019, , . | | 0 |
| 20 | Improving Field Uniformity Using Source Stirring With Orbital Angular Momentum Modes in a Reverberation Chamber. IEEE Microwave and Wireless Components Letters, 2019, 29, 560-562. | 3.2 | 20 |
| 21 | Broadband Coding Metasurface with Cross-Polarization Conversion. , 2019, , . | | 0 |
| 22 | Does Low Mutual Coupling Imply Low Antenna Correlation?. , 2019, , . | | 1 |
| 23 | Applications of the Field Transformation for Artificial Magnetic Conductors. , 2019, , . | | 0 |
| 24 | Gradient Metasurface with Anomalous Transmission and Linear-Circular Polarization Conversion. , 2019, , . | | 0 |
| 25 | Wideband and low-profile transmitarray antenna using transmissive metasurface. Journal of Applied Physics, 2019, 125, . | 2.5 | 17 |
| 26 | Frequency-Diverse Bunching Metamaterial Antenna for Coincidence Imaging. Materials, 2019, 12, 1817. | 2.9 | 22 |
| 27 | Dual-Band Transmissive Cross-Polarization Converter with Extremely High Polarization Conversion Ratio Using Transmitarray. Materials, 2019, 12, 1827. | 2.9 | 16 |
| 28 | Bandpass FSS With Zeros Adjustable Quasi-Elliptic Response. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1184-1188. | 4.0 | 20 |
| 29 | Implementation of Atomically Thick Graphene and Its Derivatives in Electromagnetic Absorbers. Applied Sciences (Switzerland), 2019, 9, 388. | 2.5 | 9 |
| 30 | Tunable Coding Metasurface Using Continuous Graphene Layer. , 2019, , . | | 0 |
| 31 | Random Radiation Metamaterial Aperture design for Coincidence Imaging. , 2019, , . | | 0 |
| 32 | Three-dimensional surface wave measurement system. Journal of Engineering, 2019, 2019, 6692-6694. | 1.1 | 2 |
| 33 | A Wideband Feeding Network for Compact Circularly Polarized Patch Antenna. , 2019, , . | | 0 |
| 34 | Broadband Polarization-Sensitive Reflection Metamaterial Aperture in Terahertz Band. , 2019, , . | | 0 |
| 35 | Generation of Multiple Modes Microwave Vortex Beams Using Active Metasurface. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 59-63. | 4.0 | 53 |
| 36 | Transparent cross-polarization converter with anomalous refraction. AEU - International Journal of Electronics and Communications, 2019, 98, 230-234. | 2.9 | 7 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Field transformation-based multifunctional and wide-angle polariser for antenna polarisation characteristics manipulation. IET Microwaves, Antennas and Propagation, 2019, 13, 1450-1456. | 1.4 | 1 |
| 38 | A Low-Profile Angle-Insensitive Bandpass Frequency-Selective Surface Based on Vias. IEEE Microwave and Wireless Components Letters, 2018, 28, 200-202. | 3.2 | 29 |
| 39 | Four-way waveguide power divider design for W-band applications. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 28, e21242. | 1.2 | 12 |
| 40 | Differential Coincidence Imaging With Frequency Diverse Aperture. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 964-968. | 4.0 | 14 |
| 41 | Mixed Mode Radar Coincidence Imaging With Hybrid Excitation Radar Array. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 1589-1604. | 4.7 | 18 |
| 42 | Unidirectional Circularly Polarized Slot Antenna Backed with Miniaturized AMC Reflector. , 2018, , . | | 2 |
| 43 | Dual-Band Dual-Polarization Transparent Metasurface Design. , 2018, , . | | 0 |
| 44 | Planar Phase Gradient Metasurface Antenna With Low RCS. IEEE Access, 2018, 6, 78839-78845. | 4.2 | 14 |
| 45 | Transparent Metasurface for Generating Microwave Vortex Beams with Cross-Polarization Conversion. Materials, 2018, 11, 2448. | 2.9 | 24 |
| 46 | Radiation Pattern Reconfigurable Waveguide Slot Array Antenna Using Liquid Crystal. International Journal of Antennas and Propagation, 2018, 2018, 1-9. | 1.2 | 5 |
| 47 | Self-Adaption Matched Filter and Bi-Directional Difference Method for Moving Target Detection. Sensors, 2018, 18, 3177. | 3.8 | 1 |
| 48 | Miniaturised artificial magnetic conductor and its application in unidirectional circularly polarised slot antenna design. IET Microwaves, Antennas and Propagation, 2018, 12, 1885-1889. | 1.4 | 10 |
| 49 | Passive asymmetric propagation waveguide based on phase gradient metasurface. , 2018, , . | | 0 |
| 50 | Wide-angle optical half-wave plate from the field transformation approach and form-birefringence theory. Optics Express, 2018, 26, 20132. | 3.4 | 13 |
| 51 | Frequency-Scanning Planar Antenna Based on Spoof Surface Plasmon Polariton. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 165-168. | 4.0 | 31 |
| 52 | Wideband polarization-independent anomalous reflection metasurface with multiple resonance modes. Journal of Advanced Dielectrics, 2017, 07, 1750010. | 2.4 | 7 |
| 53 | Design of a wideband circularly polarised fractal-shaped slot antenna. International Journal of Electronics Letters, 2017, 5, 427-437. | 1.2 | 2 |
| 54 | Cross-polarization suppression in C-shaped microstrip patch antenna employing anisotropic dielectrics. Journal of Advanced Dielectrics, 2017, 07, 1750026. | 2.4 | 2 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Broadband asymmetric transmission of linearly polarised wave based on bilayered chiral metamaterial. IET Microwaves, Antennas and Propagation, 2017, 11, 171-176. | 1.4 | 10 |
| 56 | Stopband Frequency Selective Surface With Ultra-Large Angle of Incidence. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 553-556. | 4.0 | 36 |
| 57 | Generation of multiple modes microwave vortex beams using tunable metasurface. , 2017, , . | | 2 |
| 58 | Design of a Dual-Band Dual-Polarization Transparent Frequency Selective Surface. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 3172-3175. | 4.0 | 13 |
| 59 | Compact tri-band BPF applying novel multi-mode microstrip resonator. International Journal of RF and Microwave Computer-Aided Engineering, 2016, 26, 559-564. | 1.2 | 0 |
| 60 | Wideband helicity dependent spoof surface plasmon polaritons coupling metasurface based on dispersion design. Scientific Reports, 2016, 6, 38460. | 3.3 | 4 |
| 61 | Main beam angle control microstrip antenna based on phase gradient metasurface. , 2016, , . | | 4 |
| 62 | PIN tuned phase-gradient-metasurface transmitarray for beam steering application. , 2016, , . | | 3 |
| 63 | Multiband plasmonic filter based on double layer spoof surface plasmon polaritons. , 2016, , . | | 0 |
| 64 | Dual-band asymmetric transmission and cross-polarization conversion of linearly polarized wave using multi-layered metamaterial. , 2016, , . | | 0 |
| 65 | A Reconfigurable Polarization Converter Using Active Metasurface and Its Application in Horn Antenna. IEEE Transactions on Antennas and Propagation, 2016, 64, 5281-5290. | 5.1 | 107 |
| 66 | Comment on "A wideband ultrathin low profile metamaterial microwave absorber". Microwave and Optical Technology Letters, 2016, 58, 1773-1774. | 1.4 | 4 |
| 67 | Dual-band and high-efficiency polarization converter based on metasurfaces at microwave frequencies. Applied Physics B: Lasers and Optics, 2016, 122, 1. | 2.2 | 27 |
| 68 | Ultra-broadband perfect cross polarization conversion metasurface. Optics Communications, 2016, 365, 108-112. | 2.1 | 48 |
| 69 | Gradient Metasurface With Both Polarization-Controlled Directional Surface Wave Coupling and Anomalous Reflection. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 104-107. | 4.0 | 85 |
| 70 | Design and Implementation of an Adaptive Space-Time Antenna Array for GPS Receivers. Frequenz, 2015, 69, . | 0.9 | 0 |
| 71 | Novel Spurious Suppression Approach for SIR Dual-band Bandpass Filter Design. Frequenz, 2015, 69, 65-70. | 0.9 | 1 |
| 72 | Miniaturized probe-fed circularly polarized patch antenna for BDS arrays. , 2014, , . | | 1 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Broadband cross polarization converter using plasmon hybridizations in a ring/disk cavity. Optics Express, 2014, 22, 20973. | 3.4 | 71 |
| 74 | Design of a 4-element Antenna Array for BDS Anti-jamming Applications. Frequenz, 2014, 68, 1-6. | 0.9 | 4 |
| 75 | Multi band polarization converter based on anisotropic metasurface. , 2014, , . | | 0 |
| 76 | Dual-band polarization angle independent 90° polarization rotator using twisted electric-field-coupled resonators. Applied Physics Letters, 2014, 104, . | 3.3 | 92 |
| 77 | Quad-Band Probe-Fed Stacked Annular Patch Antenna for GNSS Applications. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 372-375. | 4.0 | 45 |
| 78 | UWB ISAR high resolution imaging using near field for rotating target. , 2014, , . | | 1 |
| 79 | A LTCC Filter Using Multilayered Stepped Impedance Resonators. Microwave and Optical Technology Letters, 2013, 55, 2003-2006. | 1.4 | 2 |
| 80 | A design of dual-band 90° polarization rotator using twisted electric-field-coupled resonators. , 2013, , . | | 1 |
| 81 | Design of a Circular Polarized Horn Antenna with an Anisotropic Metamaterial Slab. Frequenz, 2013, 67, . | 0.9 | 14 |