

Hongyu Shi

List of Publications by Year in descending order

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papers

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430874

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times ranked

1016
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#	ARTICLE	IF	CITATIONS
1	A Reconfigurable Polarization Converter Using Active Metasurface and Its Application in Horn Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2016, 64, 5281-5290.	5.1	107
2	Dual-band polarization angle independent 90° polarization rotator using twisted electric-field-coupled resonators. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	92
3	Gradient Metasurface With Both Polarization-Controlled Directional Surface Wave Coupling and Anomalous Reflection. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2015, 14, 104-107.	4.0	85
4	Broadband cross polarization converter using plasmon hybridizations in a ring/disk cavity. <i>Optics Express</i> , 2014, 22, 20973.	3.4	71
5	Orbital Angular Momentum Multiplexing in Highly Reverberant Environments. <i>IEEE Microwave and Wireless Components Letters</i> , 2020, 30, 112-115.	3.2	66
6	Generation of Multiple Modes Microwave Vortex Beams Using Active Metasurface. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019, 18, 59-63.	4.0	53
7	Ultra-broadband perfect cross polarization conversion metasurface. <i>Optics Communications</i> , 2016, 365, 108-112.	2.1	48
8	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
9	Quad-Band Probe-Fed Stacked Annular Patch Antenna for GNSS Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2014, 13, 372-375.	4.0	45
10	Stopband Frequency Selective Surface With Ultra-Large Angle of Incidence. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017, 16, 553-556.	4.0	36
11	Frequency-Scanning Planar Antenna Based on Spoof Surface Plasmon Polariton. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017, 16, 165-168.	4.0	31
12	A Low-Profile Angle-Insensitive Bandpass Frequency-Selective Surface Based on Vias. <i>IEEE Microwave and Wireless Components Letters</i> , 2018, 28, 200-202.	3.2	29
13	Dual-band and high-efficiency polarization converter based on metasurfaces at microwave frequencies. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	2.2	27
14	Transparent Metasurface for Generating Microwave Vortex Beams with Cross-Polarization Conversion. <i>Materials</i> , 2018, 11, 2448.	2.9	24
15	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
16	Frequency-Diverse Bunching Metamaterial Antenna for Coincidence Imaging. <i>Materials</i> , 2019, 12, 1817.	2.9	22
17	Improving Field Uniformity Using Source Stirring With Orbital Angular Momentum Modes in a Reverberation Chamber. <i>IEEE Microwave and Wireless Components Letters</i> , 2019, 29, 560-562.	3.2	20
18	Bandpass FSS With Zeros Adjustable Quasi-Elliptic Response. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019, 18, 1184-1188.	4.0	20

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19	Mixed Mode Radar Coincidence Imaging With Hybrid Excitation Radar Array. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 1589-1604.	4.7	18
20	Wideband and low-profile transmitarray antenna using transmissive metasurface. Journal of Applied Physics, 2019, 125, .	2.5	17
21	Dual-Band Transmissive Cross-Polarization Converter with Extremely High Polarization Conversion Ratio Using Transmitarray. Materials, 2019, 12, 1827.	2.9	16
22	Generation of a microwave beam with both orbital and spin angular momenta using a transparent metasurface. Journal of Applied Physics, 2019, 126, .	2.5	15
23	Design of a Circular Polarized Horn Antenna with an Anisotropic Metamaterial Slab. Frequenz, 2013, 67, .	0.9	14
24	Differential Coincidence Imaging With Frequency Diverse Aperture. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 964-968.	4.0	14
25	Planar Phase Gradient Metasurface Antenna With Low RCS. IEEE Access, 2018, 6, 78839-78845.	4.2	14
26	Design of a Dual-Band Dual-Polarization Transparent Frequency Selective Surface. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 3172-3175.	4.0	13
27	Wide-angle optical half-wave plate from the field transformation approach and form-birefringence theory. Optics Express, 2018, 26, 20132.	3.4	13
28	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
29	Metamaterial-inspired optically transparent active dual-band frequency selective surface with independent wideband tunability. Optics Express, 2021, 29, 27542.	3.4	11
30	Broadband asymmetric transmission of linearly polarised wave based on bilayered chiral metamaterial. IET Microwaves, Antennas and Propagation, 2017, 11, 171-176.	1.4	10
31	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
32	Implementation of Atomically Thick Graphene and Its Derivatives in Electromagnetic Absorbers. Applied Sciences (Switzerland), 2019, 9, 388.	2.5	9
33	Wideband polarization-independent anomalous reflection metasurface with multiple resonance modes. Journal of Advanced Dielectrics, 2017, 07, 1750010.	2.4	7
34	Transparent cross-polarization converter with anomalous refraction. AEU - International Journal of Electronics and Communications, 2019, 98, 230-234.	2.9	7
35	Valley topological line-defects for Terahertz waveguides and power divider. Optical Materials, 2022, 126, 112152.	3.6	7
36	Transmission-Reflection-Integrated Metasurfaces Design for Simultaneous Manipulation of Phase and Amplitude. IEEE Transactions on Antennas and Propagation, 2022, 70, 6072-6077.	5.1	7

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37	Radiation Pattern Reconfigurable Waveguide Slot Array Antenna Using Liquid Crystal. International Journal of Antennas and Propagation, 2018, 2018, 1-9.	1.2	5
38	Design of a 4-element Antenna Array for BDS Anti-jamming Applications. Frequenz, 2014, 68, 1-6.	0.9	4
39	Wideband helicity dependent spoof surface plasmon polaritons coupling metasurface based on dispersion design. Scientific Reports, 2016, 6, 38460.	3.3	4
40	Main beam angle control microstrip antenna based on phase gradient metasurface. , 2016, , .		4
41	Comment on "A wideband ultrathin low profile metamaterial microwave absorber". Microwave and Optical Technology Letters, 2016, 58, 1773-1774.	1.4	4
42	Band-Pass Filtering Cross-Polarization Converter Using Transmitarrays. Materials, 2021, 14, 2109.	2.9	4
43	SBL-Based 2-D DOA Estimation for L-Shaped Array With Unknown Mutual Coupling. IEEE Access, 2021, 9, 70071-70079.	4.2	4
44	Dynamic radiation steering with transmission-type coding metasurface. Optics Express, 2022, 30, 28038.	3.4	4
45	PIN tuned phase-gradient-metasurface transmitarray for beam steering application. , 2016, , .		3
46	A LTCC Filter Using Multilayered Stepped Impedance Resonators. Microwave and Optical Technology Letters, 2013, 55, 2003-2006.	1.4	2
47	Design of a wideband circularly polarised fractal-shaped slot antenna. International Journal of Electronics Letters, 2017, 5, 427-437.	1.2	2
48	Cross-polarization suppression in C-shaped microstrip patch antenna employing anisotropic dielectrics. Journal of Advanced Dielectrics, 2017, 07, 1750026.	2.4	2
49	Generation of multiple modes microwave vortex beams using tunable metasurface. , 2017, , .		2
50	Unidirectional Circularly Polarized Slot Antenna Backed with Miniaturized AMC Reflector. , 2018, , .		2
51	Three-dimensional surface wave measurement system. Journal of Engineering, 2019, 2019, 6692-6694.	1.1	2
52	A design of dual-band 90° polarization rotator using twisted electric-field-coupled resonators. , 2013, , .		1
53	Miniaturized probe-fed circularly polarized patch antenna for BDS arrays. , 2014, , .		1
54	UWB ISAR high resolution imaging using near field for rotating target. , 2014, , .		1

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55	Novel Spurious Suppression Approach for SIR Dual-band Bandpass Filter Design. Frequenz, 2015, 69, 65-70.	0.9	1
56	Self-Adaption Matched Filter and Bi-Directional Difference Method for Moving Target Detection. Sensors, 2018, 18, 3177.	3.8	1
57	Does Low Mutual Coupling Imply Low Antenna Correlation?. , 2019, , .		1
58	Field transformationâ€based multifunctional and wideâ€angle polariser for antenna polarisation characteristics manipulation. IET Microwaves, Antennas and Propagation, 2019, 13, 1450-1456.	1.4	1
59	Evaluation of the Purity of OAM Modes Using the Reverberation Chamber Technique. , 2020, , .		1
60	Metasurfaces for Generating Focusing Vortex Beam. , 2020, , .		1
61	A Time-Modulated Transparent Nonlinear Active Metasurface for Spatial Frequency Mixing. Materials, 2022, 15, 873.	2.9	1
62	Transmissionâ€type 1â€bit coding metasurfaces with linearâ€toâ€circular polarization conversion using couplingâ€propagationâ€decoupling unit cells. International Journal of RF and Microwave Computer-Aided Engineering, 2022, 32, .	1.2	1
63	Arbitrary polarization angle and wavefront manipulation of linearly polarized waves using PB phase. Journal Physics D: Applied Physics, 2022, 55, 335105.	2.8	1
64	Multi band polarization converter based on anisotropic metasurface. , 2014, , .		0
65	Design and Implementation of an Adaptive Spaceâ€Time Antenna Array for GPS Receivers. Frequenz, 2015, 69, .	0.9	0
66	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
67	Multiband plasmonic filter based on double layer spoof surface plasmon polaritons. , 2016, , .		0
68	Dual-band asymmetric transmission and cross-polarization conversion of linearly polarized wave using multi-layered metamaterial. , 2016, , .		0
69	Dual-Band Dual-Polarization Transparent Metasurface Design. , 2018, , .		0
70	Passive asymmetric propagation waveguide based on phase gradient metasurface. , 2018, , .		0
71	Characterization of GaN Diodes at Microwave Frequencies using Coupled Resonator. , 2019, , .		0
72	Broadband Coding Metasurface with Cross-Polarization Conversion. , 2019, , .		0

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73	Applications of the Field Transformation for Artificial Magnetic Conductors. , 2019, , .		0
74	Gradient Metasurface with Anomalous Transmission and Linear-Circular Polarization Conversion. , 2019, , .		0
75	Tunable Coding Metasurface Using Continuous Graphene Layer. , 2019, , .		0
76	Random Radiation Metamaterial Aperture design for Coincidence Imaging. , 2019, , .		0
77	A Wideband Feeding Network for Compact Circularly Polarized Patch Antenna. , 2019, , .		0
78	Broadband Polarization-Sensitive Reflection Metamaterial Aperture in Terahertz Band. , 2019, , .		0
79	Design of Wideband Bandpass Filter Based on Corrugated Disk Resonator with Multiple Resonant Modes. Materials, 2021, 14, 2614.	2.9	0
80	Waveguide Coupler in Designer Surface Plasmon using Topological edge states. , 2021, , .		0
81	High-Efficiency Conversion From Rectangular Waveguide Mode to Spoof SPP Using Metasurface. IEEE Photonics Technology Letters, 2022, 34, 783-786.	2.5	0