

# Yongfeng Li

## List of Publications by Year in descending order

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Version: 2024-02-01

82  
papers

2,487  
citations

257450

24  
h-index

206112

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82  
all docs

82  
docs citations

82  
times ranked

1619  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-wideband polarization conversion metasurfaces based on multiple plasmon resonances. Journal of Applied Physics, 2014, 115, .	2.5	304
2	Realizing high comprehensive energy storage performance in lead-free bulk ceramics via designing an unmatched temperature range. Journal of Materials Chemistry A, 2019, 7, 27256-27266.	10.3	223
3	Wideband radar cross section reduction using two-dimensional phase gradient metasurfaces. Applied Physics Letters, 2014, 104, .	3.3	190
4	High-efficiency spoof plasmon polariton coupler mediated by gradient metasurfaces. Applied Physics Letters, 2012, 101, .	3.3	153
5	Wideband, wide-angle coding phase gradient metasurfaces based on Pancharatnam-Berry phase. Scientific Reports, 2017, 7, .	3.3	112
6	Phase-to-pattern inverse design paradigm for fast realization of functional metasurfaces via transfer learning. Nature Communications, 2021, 12, 2974.	12.8	92
7	Multibeam Antennas Based on Spoof Surface Plasmon Polaritons Mode Coupling. IEEE Transactions on Antennas and Propagation, 2017, 65, 1187-1192.	5.1	91
8	Frequency Scanning Radiation by Decoupling Spoof Surface Plasmon Polaritons via Phase Gradient Metasurface. IEEE Transactions on Antennas and Propagation, 2018, 66, 203-208.	5.1	84
9	Water-based metamaterial absorbers for optical transparency and broadband microwave absorption. Journal of Applied Physics, 2018, 123, .	2.5	81
10	Spatial k-dispersion engineering of spoof surface plasmon polaritons for customized absorption. Scientific Reports, 2016, 6, 29429.	3.3	76
11	Wideband RCS Reduction Metasurface With a Transmission Window. IEEE Transactions on Antennas and Propagation, 2020, 68, 7079-7087.	5.1	55
12	Wideband Frequency Scanning Spoof Surface Plasmon Polariton Planar Antenna Based on Transmissive Phase Gradient Metasurface. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 463-467.	4.0	44
13	Low RCS Antennas Based on Dispersion Engineering of Spoof Surface Plasmon Polaritons. IEEE Transactions on Antennas and Propagation, 2018, 66, 7111-7116.	5.1	43
14	Low-RCS and High-Gain Circularly Polarized Metasurface Antenna. IEEE Transactions on Antennas and Propagation, 2019, 67, 7197-7203.	5.1	41
15	k-dispersion engineering of spoof surface plasmon polaritons for beam steering. Optics Express, 2016, 24, 842.	3.4	39
16	Ultra-wideband transparent 90° polarization conversion metasurfaces. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	37
17	Circulator Based on Spoof Surface Plasmon Polaritons. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 821-824.	4.0	35
18	Wide-angle flat metasurface corner reflector. Applied Physics Letters, 2018, 113, .	3.3	35

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19	Achromatic flat focusing lens based on dispersion engineering of spoof surface plasmon polaritons. Applied Physics Letters, 2017, 110, .	3.3	33
20	Shared-Aperture Antennas Based on Even- and Odd-Mode Spoof Surface Plasmon Polaritons. IEEE Transactions on Antennas and Propagation, 2020, 68, 3254-3258.	5.1	33
21	Reducing RCS of Patch Antennas via Dispersion Engineering of Metamaterial Absorbers. IEEE Transactions on Antennas and Propagation, 2020, 68, 1419-1425.	5.1	30
22	BroadBand spoof surface plasmon polaritons coupler based on dispersion engineering of metamaterials. Applied Physics Letters, 2017, 111, .	3.3	29
23	Wideband Polarization Conversion with the Synergy of Waveguide and Spoof Surface Plasmon Polariton Modes. Physical Review Applied, 2018, 10, .	3.8	28
24	Low radar cross section checkerboard metasurface with a transmission window. Journal of Applied Physics, 2018, 124, .	2.5	28
25	Spin-to-Orbital Angular Momentum Conversion with Quasi-Continuous Spatial Phase Response. Advanced Optical Materials, 2019, 7, 1901188.	7.3	28
26	Miniaturized-Element Offset-Feed Planar Reflector Antennas Based on Metasurfaces. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 282-285.	4.0	26
27	Wideband selective polarization conversion mediated by three-dimensional metamaterials. Journal of Applied Physics, 2014, 115, 234506.	2.5	25
28	Tailoring Circular Dichroism for Simultaneous Control of Amplitude and Phase via Ohmic Dissipation Metasurface. Advanced Optical Materials, 2021, 9, 2100140.	7.3	25
29	Frequency-Selective Structure With Transmission and Scattering Deflection Based on Spoof Surface Plasmon Polariton Modes. IEEE Transactions on Antennas and Propagation, 2019, 67, 6508-6514.	5.1	23
30	Ultra-broadband linearly polarisation manipulation metamaterial. Electronics Letters, 2014, 50, 1658-1660.	1.0	22
31	Broadband reflectionless metamaterials with customizable absorption-“transmission-integrated performance. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	22
32	Ultra-wideband polarization conversion metasurfaces. , 2014, , .		21
33	Merging bands of polarization convertors by suppressing Fano resonance. Applied Physics Letters, 2018, 113, .	3.3	21
34	Low-RCS Multi-Beam Metasurface-Inspired Antenna Based on Pancharatnam-“Berry Phase. IEEE Transactions on Antennas and Propagation, 2020, 68, 1899-1906.	5.1	21
35	Microwave birefringent metamaterials for polarization conversion based on spoof surface plasmon polariton modes. Scientific Reports, 2016, 6, 34518.	3.3	20
36	Ohmic Dissipation-Assisted Complex Amplitude Hologram with High Quality. Advanced Optical Materials, 2021, 9, 2002242.	7.3	20

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37	Tailoring Circular Dichroism in an Isomeric Manner: Complete Control of Amplitude and Phase for High-Quality Hologram and Beam Forming. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	19
38	Retro-reflective metasurfaces for backscattering enhancement under oblique incidence. <i>AIP Advances</i> , 2017, 7, .	1.3	18
39	Multi-Beam Metasurface Antenna by Combining Phase Gradients and Coding Sequences. <i>IEEE Access</i> , 2019, 7, 62087-62094.	4.2	18
40	Broadband planar achromatic anomalous reflector based on dispersion engineering of spoof surface plasmon polariton. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	17
41	Circularly Polarized Spin-Selectivity Absorbing Coding Phase Gradient Metasurface for RCS Reduction. <i>Advanced Theory and Simulations</i> , 2020, 3, 1900217.	2.8	17
42	Multidimensionally Manipulated Active Coding Metasurface by Merging Pancharatnam-Berry Phase and Dynamic Phase. <i>Advanced Optical Materials</i> , 2021, 9, 2100484.	7.3	17
43	Achieving circular-to-linear polarization conversion and beam deflection simultaneously using anisotropic coding metasurfaces. <i>Scientific Reports</i> , 2019, 9, 12264.	3.3	15
44	Efficient orbital angular momentum vortex beam generation by generalized coding metasurface. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	15
45	Design of Frequency Selective Surface Based on Spoof Surface Plasmon Polariton Modes. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018, 17, 1123-1126.	4.0	14
46	Single-Layer Achiral Metasurface with Independent Amplitude-Phase Control for Both Left-Handed and Right-Handed Circular Polarizations. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 33968-33975.	8.0	14
47	Chiral Absorber-Based Frequency Selective Resorber With Identical Filtering Characteristics for Distinct Polarizations. <i>IEEE Transactions on Antennas and Propagation</i> , 2022, 70, 3506-3514.	5.1	13
48	Broadband Surface Waves Couplers With Adjustable Excitation Modes and Controllable Wavefront Directions Utilizing Integrated Pancharatnam-Berry Phase Gradient Metasurfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 7698-7708.	5.1	12
49	Ultra-wideband and high-efficiency transparent coding metasurface. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	11
50	Wideband, co-polarization anomalous reflection metasurface based on low-Q resonators. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	10
51	High-efficiency tri-band quasi-continuous phase gradient metamaterials based on spoof surface plasmon polaritons. <i>Scientific Reports</i> , 2017, 7, 40727.	3.3	10
52	Origami-Based Metamaterials for Dynamic Control of Wide-Angle Absorption in a Reconfigurable Manner. <i>IEEE Transactions on Antennas and Propagation</i> , 2022, 70, 4558-4568.	5.1	9
53	Polarization Reconfigurable and Beam-Switchable Array Antenna Using Switchable Feed Network. <i>IEEE Access</i> , 2022, 10, 29032-29039.	4.2	8
54	Multi-functional sandwich structure with metamaterial antenna lattice cores: protection, radiation and absorption. <i>IET Microwaves, Antennas and Propagation</i> , 2020, 14, 593-599.	1.4	7

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55	Composite Frequency Selective Structure With the Integrated Functionality of Transmission, Absorption, and Scattering. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1819-1823.	4.0	7
56	Goos-Hänchen shift in metallic gratings assisted by phase gradient metasurfaces. Materials Research Express, 2018, 5, 125802.	1.6	6
57	A wideband deflected reflection based on multiple resonances. Applied Physics A: Materials Science and Processing, 2015, 120, 287-291.	2.3	5
58	Design of triple-band-pass frequency selective structure based on spoof surface plasmon polariton. AIP Advances, 2018, 8, .	1.3	5
59	Bispectral Circular Dichroic Coding Metasurfaces. Annalen Der Physik, 2020, 532, 1900496.	2.4	5
60	Manipulating the reflection of electromagnetic waves using reflective metasurfaces. , 2014, , .		4
61	Circulation of spoof surface plasmon polaritons: Implementation and verification. AIP Advances, 2018, 8, 055002.	1.3	4
62	Achieving Broadband Spin-Correlated Asymmetric Reflection Using a Circular Dichroitic Meta-Mirror. Annalen Der Physik, 2021, 533, 2000515.	2.4	4
63	Full-Polarization Frequency Controlled Multimode Spoof Surface Plasmon Polaritons Excitation via Anisotropic Metastructure. Advanced Optical Materials, 2022, 10, .	7.3	3
64	Tailoring the Excited and Cutoff States of Spoof Surface Plasmon Polaritons for Full-Space Quadruple Functionalities. ACS Applied Materials & Interfaces, 2022, 14, 6230-6238.	8.0	3
65	Synergy of absorbing and diffusing for RCS reduction using spin-selective coding metasurfaces. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	2
66	Fabrication of dual-passband frequency selective surface utilizing complementary structure. , 2015, , .		1
67	Enhancing Backward Scattering Using Metasurfaces. , 2018, , .		1
68	A Reflected Dual-Band High-Efficiency Polarization Conversion Metasurface. , 2018, , .		1
69	Groundless Endfire Antennas Based on Spoof Surface Plasmon Polaritons. , 2019, , .		1
70	Dual-band broadside radiation antenna via near-field electric and magnetic couplings of nested metamaterial resonators. Microwave and Optical Technology Letters, 2020, 62, 3225-3231.	1.4	1
71	Ultra-band microwave absorber using a composition of phase gradient metasurface and magnetic materials. , 2014, , .		0
72	A second-order band-pass frequency-selective surface using hexagonal aperture coupled patches: Design and validation. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
73	A novel beam shaped microstrip patch antenna by metamaterial units. , 2015, , .		0
74	Design of the infrared selective thermal radiation based on metamaterials. , 2016, , .		0
75	WLAN band-notched planar UWB antenna loaded by CSRR. , 2016, , .		0
76	Antenna beam steering using phase gradient metasurface radome. , 2016, , .		0
77	Design and study miniaturized-element wideband frequency selective surface. , 2016, , .		0
78	Flexible Controls of Radar Cross Section based on Coding Metasurface with Varactors. , 2019, , .		0
79	Linear-to-Circular (LTC) Antenna With Polarization Conversion Metasurface. , 2019, , .		0
80	The Asymmetric Transmission Depending on the Propagation Direction Using Spoof Surface Plasmon Polaritons. , 2019, , .		0
81	Switchable circular dichroism resonators for spin selective absorption. , 2021, , .		0
82	Greedy-algorithm-empowered design of wideband achromatic beam deflector based on spoof surface plasmon polariton mode. European Physical Journal Plus, 2022, 137, 1.	2.6	0