

# Kuang Zhang

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88

papers

1,821

citations

20

h-index

41

g-index

127

ext. papers

2,623

ext. citations

4.2

avg, IF

5.37

L-index

#	Paper	IF	Citations
88	Ultrathin pancharatnam-berry metasurface with maximal cross-polarization efficiency. <i>Advanced Materials</i> , <b>2015</b> , 27, 1195-200	24	341
87	Independent phase modulation for quadruplex polarization channels enabled by chirality-assisted geometric-phase metasurfaces. <i>Nature Communications</i> , <b>2020</b> , 11, 4186	17.4	166
86	Phase-engineered metalenses to generate converging and non-diffractive vortex beam carrying orbital angular momentum in microwave region. <i>Optics Express</i> , <b>2018</b> , 26, 1351-1360	3.3	159
85	High-Efficiency Metalenses with Switchable Functionalities in Microwave Region. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 28423-28430	9.5	116
84	A Fully Phase-Modulated Metasurface as An Energy-Controllable Circular Polarization Router. <i>Advanced Science</i> , <b>2020</b> , 7, 2001437	13.6	103
83	Complementary transmissive ultra-thin meta-deflectors for broadband polarization-independent refractions in the microwave region. <i>Photonics Research</i> , <b>2019</b> , 7, 80	6	93
82	Huygens Metasurface Holograms with the Modulation of Focal Energy Distribution. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800121	8.1	80
81	Polarization-Engineered Noninterleaved Metasurface for Integer and Fractional Orbital Angular Momentum Multiplexing. <i>Laser and Photonics Reviews</i> , <b>2021</b> , 15, 2000351	8.3	79
80	Metasurface holographic image projection based on mathematical properties of Fourier transform. <i>Photonix</i> , <b>2020</b> , 1,	19	72
79	High-efficiency surface plasmonic polariton waveguides with enhanced low-frequency performance in microwave frequencies. <i>Optics Express</i> , <b>2017</b> , 25, 2121-2129	3.3	33
78	Coding HuygensWmetasurface for enhanced quality holographic imaging. <i>Optics Express</i> , <b>2019</b> , 27, 7108-7119	3.19	30
77	Broadband high-order mode of spoof surface plasmon polaritons supported by compact complementary structure with high efficiency. <i>Optics Letters</i> , <b>2018</b> , 43, 3176-3179	3	29
76	Dual-polarized multiplexed meta-holograms utilizing coding metasurface. <i>Nanophotonics</i> , <b>2020</b> , 9, 3605-3613	3.13	29
75	High-efficiency broadband excitation and propagation of second-mode spoof surface plasmon polaritons by a complementary structure. <i>Optics Letters</i> , <b>2017</b> , 42, 2766-2769	3	25
74	A Review of Orbital Angular Momentum Vortex Beams Generation: From Traditional Methods to Metasurfaces. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 1015	2.6	24
73	Properties and Sensing Performance of All-Dielectric Metasurface THz Absorbers. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2020</b> , 10, 599-605	3.4	23
72	Generating Dual-Polarized Vortex Beam by Detour Phase: From Phase Gradient Metasurfaces to Metagratings. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2021</b> , 1-1	4.1	23

71	Multi-focus hologram utilizing Pancharatnam-Berry phase elements based metamirror. <i>Optics Letters</i> , <b>2019</b> , 44, 2189-2192	3	22
70	Three-Dimensional Microwave Holography Based on Broadband Huygens Metasurface. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	21
69	Omnidirectional non-radiative wireless power transfer with rotating magnetic field and efficiency improvement by metamaterial. <i>Applied Physics A: Materials Science and Processing</i> , <b>2014</b> , 116, 1579-1586	2.6	20
68	Versatile Airy-Beam Generation Using a 1-Bit Coding Programmable Reflective Metasurface. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	17
67	A Magnetic Coupling Dipole for UHF Near-Field RFID Reader. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 4305-4308	2	15
66	A Compact Wideband Filter Based on Spoof Surface Plasmon Polaritons With a Wide Upper Rejection Band. <i>IEEE Photonics Technology Letters</i> , <b>2020</b> , 32, 1511-1514	2.2	14
65	Perfect Control of Diffraction Patterns with Phase-Gradient Metasurfaces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	14
64	Efficient propagation of spoof surface plasmon polaritons supported by substrate integrated waveguide with bandpass features. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 425104	3	13
63	Dynamically Controlling Spatial Energy Distribution with a Holographic Metamirror for Adaptive Focusing. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	12
62	A Novel Four-Face Polarization Twister Based on Three-Dimensional Magnetic Toroidal Dipoles. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 1-4	2	11
61	Ultrathin Metasurface for Controlling Electromagnetic Wave With Broad Bandwidth. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-4	2	11
60	Total transmission and total reflection of electromagnetic waves by anisotropic epsilon-near-zero metamaterials embedded with dielectric defects. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 084908	2.5	11
59	Planar Efficient Metasurface for Vortex Beam Generating and Converging in Microwave Region. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-4	2	10
58	Spatial Energy Distribution Manipulation with Multi-focus Huygens Metamirror. <i>Scientific Reports</i> , <b>2017</b> , 7, 9081	4.9	10
57	Metamaterials With Tunable Negative Permeability Based on Mie Resonance. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 4289-4292	2	10
56	Multi-band terahertz resonant absorption based on an all-dielectric grating metasurface for chlorpyrifos sensing. <i>Optics Express</i> , <b>2021</b> , 29, 13563-13575	3.3	9
55	Transmission Reflection-Integrated Multiplexed Janus Metasurface. <i>ACS Applied Electronic Materials</i> , <b>2021</b> , 3, 2638-2645	4	9
54	Planar Vortex Beam Generator for Circularly Polarized Incidence Based on FSS. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 1514-1522	4.9	9

53	Carbon nanotube-based flexible metamaterials for THz sensing. <i>Optical Materials Express</i> , <b>2021</b> , 11, 1470-6	8
52	Single-layer spatial analog meta-processor for imaging processing.. <i>Nature Communications</i> , <b>2022</b> , 13, 2188	17.4 8
51	Experimental validation of active holographic metasurface for electrically beam steering. <i>Optics Express</i> , <b>2018</b> , 26, 6316-6324	3.3 7
50	Generation of High-Efficiency Vortex Beam Carrying OAM Mode Based on Miniaturized Element Frequency Selective Surfaces. <i>IEEE Transactions on Magnetics</i> , <b>2019</b> , 55, 1-4	2 7
49	Helicity-switched hologram utilizing a polarization-free multi-bit coding metasurface. <i>Optics Express</i> , <b>2020</b> , 28, 22669-22678	3.3 7
48	Metasurface Holography in the Microwave Regime. <i>Photonics</i> , <b>2021</b> , 8, 135	2.2 7
47	A Dual-Beam Leaky-Wave Antenna Based on Squarely Modulated Reactance Surface. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 962	2.6 6
46	Polarization conversion of electromagnetic waves by Faraday chiral media. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 054104	2.5 6
45	Designed Circularly Polarized Two-Port Microstrip MIMO Antenna for WLAN Applications. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 1068	2.6 6
44	Polarization-multiplexed Huygens metasurface holography. <i>Optics Letters</i> , <b>2020</b> , 45, 5488-5491	3 6
43	Metasurface for Bending the Reflected Wave Under Oblique Incidence. <i>IEEE Transactions on Magnetics</i> , <b>2019</b> , 55, 1-4	2 5
42	Complementary cloak based on conventional cloak with axial symmetrical cloaked region. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 108, 1001-1005	2.6 5
41	Dual-Polarized Tri-Channel Encrypted Holography Based on Geometric Phase Metasurface. <i>Advanced Photonics Research</i> , <b>2020</b> , 1, 2000022	1.9 5
40	Omnidirectional wireless power transfer system supporting mobile devices. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6 4
39	A zero index metamaterial lens for gain enhancement of patch antenna and H-plane horn antenna <b>2013</b> ,	4
38	Reconfigurable subwavelength waveguide based on magnetic metamaterial. <i>Applied Physics A: Materials Science and Processing</i> , <b>2011</b> , 102, 509-515	2.6 4
37	Compact transition enabled broadband propagation of spoof surface plasmon polaritons based on the equivalent circuit model. <i>Journal Physics D: Applied Physics</i> , <b>2022</b> , 55, 165101	3 4
36	Dual-Polarized Dual-Channel Helicity-Switching or Helicity-Preserving Retroreflectors Utilizing 1-Bit Coding Metasurfaces. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 3380-3389	4 4

35	Coding metasurface holography with polarization-multiplexed functionality. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 035304	2.5	4
34	Reconfigurable composite right/left-handed magnetic-metamaterial waveguide at sub-wavelength scale. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 07A309	2.5	3
33	A novel terahertz metasurface based on a single-walled carbon nanotube film for sensing application. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 1780-1787	13	3
32	Perfect anomalous reflection and refraction utilizing binary PancharatnamBerry phase elements based metasurfaces. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 065111	3	3
31	Bi-Functional meta-device with full energy utilization in co- and cross-polarization fields. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 171602	3.4	3
30	Tunable Control of Mie Resonances Based on Hybrid VO <sub>2</sub> and Dielectric Metamaterial. <i>Symmetry</i> , <b>2018</b> , 10, 423	2.7	3
29	Short-circuited stub-loaded spoof surface plasmon polariton transmission lines with flexibly controllable lower out-of-band rejections. <i>Optics Letters</i> , <b>2021</b> , 46, 4354-4357	3	3
28	Optically tunable single narrow band all-dielectric terahertz metamaterials absorber. <i>AIP Advances</i> , <b>2020</b> , 10, 045039	1.5	2
27	Multifunctional Polarization Converter Based on Dielectric Metamaterial. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2018</b> , 215, 1700535	1.6	2
26	Beam scanning range expansion of liquid crystal based leaky wave antennas <b>2018</b> ,		2
25	Terahertz Wave Electric Field Oscillation from Single-Walled Carbon Nanotube Antenna. <i>Integrated Ferroelectrics</i> , <b>2014</b> , 153, 120-125	0.8	2
24	1 Bit Non-Diffractive Vortex Beam Generator Based on FSS in Microwave Region. <i>IEEE Transactions on Magnetism</i> , <b>2021</b> , 57, 1-4	2	2
23	Spatial Rotation Operations on Huygens Metasurface Hologram in Microwave Regime. <i>IEEE Transactions on Magnetism</i> , <b>2019</b> , 55, 1-4	2	1
22	Miniaturized frequency selective surface and broadband frequency selective surface design <b>2016</b> ,		1
21	An L-band narrowband energy selective surface design <b>2019</b> ,		1
20	Leaky-Wave Antennas with Loaded Complementary Components for High-Performance and Wideband Application <b>2019</b> ,		1
19	Broadband planar Luneburg lens composed of artificial impedance surfaces <b>2015</b> ,		1
18	A novel wide band FSS structure based on the double-layered hexagonal unit <b>2014</b> ,		1

17	Tunable liquid crystal metamaterial filter with polarization-insensitive characteristic. <i>Liquid Crystals</i> , 1-9	2.3	1
16	Microwave Metagratings for Generation of Vortex beams Carrying OAM modes	2020,	1
15	A Bidirectional Ensemble-Learning Framework for Target-Oriented Metamaterial Designs. <i>Advanced Photonics Research</i> , 2021, 2, 2100158	1.9	1
14	Fourier Convolution Operation on Metasurface-Based Hologram in Microwave Region. <i>Photonics</i> , 2021, 8, 174	2.2	1
13	Generating Bessel Beams Efficiently in Microwave With High Transmission Metasurfaces. <i>IEEE Transactions on Magnetics</i> , 2021, 57, 1-5	2	1
12	High selective metamaterial resonator based on complementary split ring resonator	2016,	1
11	Electrically tunable array antenna with beam steering from backfire to endfire based on liquid crystal miniaturized phase shifter	2016,	1
10	Tailoring the scattering properties of coding metamaterials based on machine learning. <i>EPJ Applied Metamaterials</i> , 2021, 8, 15	0.8	1
9	Generation and deflection control of a 2D Airy beam utilizing metasurfaces. <i>Optics Letters</i> , 2021, 46, 5220-5223	3	1
8	Vanadium Dioxide-Based Terahertz Metamaterial Devices Switchable between Transmission and Absorption. <i>Micromachines</i> , 2022, 13, 715	3.3	1
7	Ultra-high Q resonances governed by quasi-bound states in the continuum in all-dielectric THz metamaterials. <i>Optics Communications</i> , 2022, 128555	2	1
6	Huygens <sup>W</sup> Metasurface with Stable Transmission Response under Wide Range of Incidence Angle. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2022, 1-1	3.8	0
5	A silicon-based metasurface for terahertz sensing. <i>Optics Communications</i> , 2022, 506, 127572	2	0
4	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2022, 28, 1-8	3.8	0
3	2D Airy beam generation and manipulation utilizing metasurface. <i>IEEE Transactions on Magnetics</i> , 2021, 1-1	2	0
2	All-silicon periodic and non-periodic THz metasurface for sensing applications. <i>Optical Materials</i> , 2022, 126, 112206	3.3	0
1	N-sided Irregular Polygonal Cavity Camouflage Coating with Homogeneous Parameters. <i>Integrated Ferroelectrics</i> , 2015, 161, 18-26	0.8	