

Ke Chen

List of Publications by Year in descending order

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105
papers

3,180
citations

159585

30
h-index

155660

55
g-index

105
all docs

105
docs citations

105
times ranked

1900
citing authors

#	ARTICLE	IF	CITATIONS
1	Kirigami Reconfigurable Gradient Metasurface. <i>Advanced Functional Materials</i> , 2022, 32, 2107699.	14.9	34
2	Independent Wavefront Tailoring in Full Polarization Channels by Helicity-Decoupled Metasurface. <i>Annalen Der Physik</i> , 2022, 534, 2100546.	2.4	14
3	Three-dimensional lightweight metamaterial with ultra-wideband microwave absorption. <i>Microwave and Optical Technology Letters</i> , 2022, 64, 500-506.	1.4	8
4	Wideband Dual-Feed Dual-Polarized Reflectarray Antenna Using Anisotropic Metasurface. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2022, 21, 129-133.	4.0	10
5	Kirigami Reconfigurable Gradient Metasurface (Adv. Funct. Mater. 5/2022). <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	0
6	An Active Metamaterial Absorber With Ultrawideband Continuous Tunability. <i>IEEE Access</i> , 2022, 10, 25290-25295.	4.2	12
7	An Intelligent Programmable Omni-Metasurface. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	56
8	Arbitrary and Dynamic Poincaré Sphere Polarization Converter with a Time-Varying Metasurface. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	52
9	Four-Channel Kaleidoscopic Metasurfaces Enabled by a Single-Layered Single-Cell Quad-Band Meta-Atom. <i>Advanced Theory and Simulations</i> , 2022, 5, .	2.8	4
10	A Dual-Polarized Reconfigurable Reflectarray Antenna Based on Dual-Channel Programmable Metasurface. <i>IEEE Transactions on Antennas and Propagation</i> , 2022, 70, 7403-7412.	5.1	35
11	Polarization-Selective Bifunctional Metasurface for High-Efficiency Millimeter-Wave Folded Transmitarray Antenna With Circular Polarization. <i>IEEE Transactions on Antennas and Propagation</i> , 2022, 70, 8184-8194.	5.1	21
12	Transmissive Metasurface With Independent Amplitude/Phase Control and Its Application to Low-Side-Lobe Metalens Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2022, 70, 6526-6536.	5.1	19
13	Spatiotemporal Metasurface to Control Electromagnetic Wave Scattering. <i>Physical Review Applied</i> , 2022, 17, .	3.8	9
14	Multifunctional Metasurface for Broadband Reflect-Transmit-Array Antenna at 5G Millimeter-Wave Band. , 2022, , .		6
15	Free-Standing Single-Layer Metasurface for Efficient and Broadband Tailoring of Terahertz Wavefront. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	13
16	An Ultrathin Tunable Metamaterial Absorber for Lower Microwave Band Based on Magnetic Nanomaterial. <i>Nanomaterials</i> , 2022, 12, 2135.	4.1	17
17	Anisotropic Time-varying Metasurface for Real-time Polarization Conversion. , 2022, , .		0
18	A review of recent progress on directional metasurfaces: concept, design, and application. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 383001.	2.8	7

#	ARTICLE	IF	CITATIONS
19	Active Cylindrical Metasurface With Spatial Reconfigurability for Tunable Backward Scattering Reduction. IEEE Transactions on Antennas and Propagation, 2021, 69, 3332-3340.	5.1	32
20	Independent dual-beam control based on programmable coding metasurface. Wuli Xuebao/Acta Physica Sinica, 2021, 70, 178102.	0.5	3
21	Compact Multibeam Metasurface Lens Antenna with Circular Polarization for 5G Millimeter-Wave Application. , 2021, , .		0
22	Direct-modulation Wireless Communication with Real-time Programmable Metasurface. , 2021, , .		0
23	Controlling Conical Beam Carrying Orbital Angular Momentum with Transmissive Metasurface. International Journal of Antennas and Propagation, 2021, 2021, 1-10.	1.2	2
24	Quad-channel independent wavefront encoding with dual-band multitasking metasurface. Optics Express, 2021, 29, 15678.	3.4	10
25	Switchable metasurface for nearly perfect reflection, transmission, and absorption using PIN diodes. Optics Express, 2021, 29, 29320.	3.4	27
26	Angular Adaptive Reconfigurable Spin-Locked Metasurface Retroreflector. Advanced Science, 2021, 8, e2100885.	11.2	35
27	Multi-functional metasurfaces and their applications. , 2021, , .		0
28	Flexible Multiplexing of High-order Poincaré Sphere Beams with Reflective Metasurface. , 2021, , .		0
29	Birefringent Metasurface and Its Application to Dual-polarized Reflectarray Antenna. , 2021, , .		0
30	Paper-based Metasurface with Broadband RCS Reduction Based on Diffusion and Absorption. , 2021, , .		0
31	Birefringent Metasurface and Its Application to Dual-polarized Reflectarray Antenna. , 2021, , .		0
32	An Active Frequency Reconfigurable Epsilon-near-zero Antenna. , 2021, , .		0
33	Active Planar Van Atta Array Reflector with Switchable Retroreflection. , 2021, , .		0
34	Tunable Non-Diffraction Spoof Surface Plasmon Polaritons with Liquid Crystal Terahertz Metasurface. , 2021, , .		0
35	Bidirectional Folded Transmitarray Antenna Using Full-Space Chiral Metasurfaces. , 2021, , .		0
36	Reconfigurable Intelligent Surface Enhancing In-door Wireless Communication. , 2021, , .		1

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37	Reconfigurable Intelligent Surface for Regional Signal Enhancement. , 2021, , .		1
38	Dual-frequency Direct Wireless Communication with Programmable Meta-mirror. , 2021, , .		0
39	Transmission-Reflection-Selective Metasurface and Its Application to RCS Reduction of High-Gain Reflector Antenna. IEEE Transactions on Antennas and Propagation, 2020, 68, 1426-1435.	5.1	39
40	Active Anisotropic Coding Metasurface with Independent Real-Time Reconfigurability for Dual Polarized Waves. Advanced Materials Technologies, 2020, 5, 1900930.	5.8	72
41	Directional Janus Metasurface. Advanced Materials, 2020, 32, e1906352.	21.0	193
42	Dynamic Scattering Steering with Graphene-Based Coding Metamirror. Advanced Optical Materials, 2020, 8, 2000683.	7.3	103
43	Ultra-broadband microwave absorption by ultra-thin metamaterial with stepped structure induced multi-resonances. Results in Physics, 2020, 18, 103320.	4.1	46
44	Airy Beam Generation: Approaching Ideal Efficiency and Ultra Wideband with Reflective and Transmissive Metasurfaces. Advanced Optical Materials, 2020, 8, 2000860.	7.3	44
45	Dual-Phase Hybrid Metasurface for Independent Amplitude and Phase Control of Circularly Polarized Wave. IEEE Transactions on Antennas and Propagation, 2020, 68, 7705-7710.	5.1	41
46	Aperture Antenna Embedded Notched Parallel Plate Waveguide and Its Application to Dual-Polarized 3-D Absorptive Frequency-Selective Transmission Structure. IEEE Access, 2020, 8, 94833-94841.	4.2	11
47	Differential Signal Propagation in Spoof Plasmonic Structure and its Application in Microwave Filtering Balun. IEEE Access, 2020, 8, 109009-109014.	4.2	11
48	Ultrathin Single Layer Metasurfaces with Ultra-Wideband Operation for Both Transmission and Reflection. Advanced Materials, 2020, 32, e1907308.	21.0	215
49	Ultrawideband Spin-Decoupled Coding Metasurface for Independent Dual-Channel Wavefront Tailoring. Annalen Der Physik, 2020, 532, 1900472.	2.4	25
50	Programmable Coding Metasurface for Dual-Band Independent Real-Time Beam Control. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2020, 10, 20-28.	3.6	70
51	Filtering microwave differential signals through odd-mode spoof surface plasmon polariton propagation. Journal Physics D: Applied Physics, 2020, 53, 165105.	2.8	7
52	Broadband Spin-Decoupled Metasurface for Dual-Circularly Polarized Reflector Antenna Design. IEEE Transactions on Antennas and Propagation, 2020, 68, 3534-3543.	5.1	57
53	Independent Energy Allocation of Dual-Helical Multi-Beams with Spin-Selective Transmissive Metasurface. Advanced Optical Materials, 2020, 8, 2000342.	7.3	34
54	Binary geometric phase metasurface for ultra-wideband microwave diffuse scatterings with optical transparency. Optics Express, 2020, 28, 12638.	3.4	25

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55	Direct routing of intensity-editable multi-beams by dual geometric phase interference in metasurface. <i>Nanophotonics</i> , 2020, 9, 2977-2987.	6.0	27
56	Reconfigurable Coding Metasurface for Dual-band Dynamic Near-field Microwave Focusing. , 2020, , .		0
57	Polarization- and Frequency-Controlled Multifunctional Coding Metasurface. , 2020, , .		1
58	Asymmetric Harmonic Manipulation of Electromagnetic Wave by 2-bit Time-varying Coding Metasurface. , 2020, , .		1
59	Design of a Frequency-Tunable Frequency-Selective Surface with High-Selectivity. , 2020, , .		1
60	Harmonic Manipulation of Microwave by Time-varying Polarization-converting Metasurface. , 2020, , .		1
61	Achieving Directive Radiation and Broadband Microwave Absorption by an Anisotropic Metasurface. <i>IEEE Access</i> , 2019, 7, 93919-93926.	4.2	6
62	Broadband Polarization-Conversion Metasurface for a Cassegrain Antenna with High Polarization Purity. <i>Physical Review Applied</i> , 2019, 12, .	3.8	48
63	Switchable Broadband Dual-Polarized Frequency-Selective Resorber/Absorber. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019, 18, 2508-2512.	4.0	68
64	Ultrathin L-band Microwave Tunable Metamaterial Absorber. , 2019, , .		2
65	Broadband microwave metamaterial absorber with lumped resistor loading. <i>EPJ Applied Metamaterials</i> , 2019, 6, 1.	1.5	29
66	Multi-octave microwave absorption via conformal metamaterial absorber with optical transparency. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 335101.	2.8	44
67	Dual-Helicity Decoupled Coding Metasurface for Independent Spin-to-Orbital Angular Momentum Conversion. <i>Physical Review Applied</i> , 2019, 11, .	3.8	137
68	A Low Profile Broadband Cassegrain Reflectarray. , 2019, , .		1
69	Ultra-Thin Conformal Metasurface for Backward RCS Reduction of Large Cylindrical Object. , 2019, , .		2
70	Composite Strategy for Backward-Scattering Reduction of a Wavelength-Scale Cylindrical Object by an Ultrathin Metasurface. <i>Physical Review Applied</i> , 2019, 12, .	3.8	6
71	Multi-functional coding metasurface for dual-band independent electromagnetic wave control. <i>Optics Express</i> , 2019, 27, 19196.	3.4	24
72	Graphene-based Terahertz metasurface Salisbury screen with tunable wideband absorption. , 2019, , .		0

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73	Broadband Tunable Metamaterial Absorber with Active Lumped Diodes. , 2018, , .		1
74	Manipulating Propagation and Scattering of Microwave by Optically Transparent Metasurface. , 2018, , .		1
75	Reflective 1-bit Coding Metasurface for Frequency Selective RCS Reduction. , 2018, , .		1
76	Optically Transparent Metasurfaces for Controlling Microwave Scattering and Absorption. , 2018, , .		2
77	Combining Frequency-Selective Scattering and Specular Reflection Through Phase-Dispersion Tailoring of a Metasurface. Physical Review Applied, 2018, 10, .	3.8	41
78	Bifunctional metasurface for independently generating vortex beams and pencil beams. , 2018, , .		0
79	Dynamic control of microwave with tunable metamaterial and metasurface. , 2018, , .		1
80	Tunable Low-Frequency Broadband Dual-Polarized Resorber. , 2018, , .		1
81	Broadening the Bandwidth of the Electromagnetic Metamaterial Absorber. , 2018, , .		1
82	Filtering Balun Based on Spoof Surface Plasmon Polariton. , 2018, , .		2
83	Ultra-Wideband Microwave Absorption by Design and Optimization of Metasurface Salisbury Screen. IEEE Access, 2018, 6, 26843-26853.	4.2	51
84	Full control of conical beam carrying orbital angular momentum by reflective metasurface. Optics Express, 2018, 26, 20990.	3.4	29
85	Generation of conical beam by reflective metasurface. , 2018, , .		4
86	Optically transparent metasurface Salisbury screen with wideband microwave absorption. Optics Express, 2018, 26, 34384.	3.4	60
87	A Reconfigurable Active Huygens' Metalens. Advanced Materials, 2017, 29, 1606422.	21.0	470
88	Dynamic control of asymmetric electromagnetic wave transmission by active chiral metamaterial. Scientific Reports, 2017, 7, 42802.	3.3	68
89	Bi-functional metasurface controlling electromagnetic wave scattering of differently polarized wave. , 2017, , .		0
90	Designing metasurface through surface impedance mapping and equivalent circuit model. , 2017, , .		0

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91	Polarization-dependent bi-functional metasurface for directive radiation and diffusion-like scattering. AIP Advances, 2017, 7, .	1.3	11
92	Geometric phase coded microwave metasurface for ultra-wideband radar cross section reduction. , 2017, , .		0
93	Coding metasurface for broadband microwave scattering reduction with optical transparency. Optics Express, 2017, 25, 5571.	3.4	143
94	Metasurface Salisbury screen: achieving ultra-wideband microwave absorption. Optics Express, 2017, 25, 30241.	3.4	61
95	Water droplets: Toward broadband metamaterial microwave absorber. , 2016, , .		2
96	Geometric phase coded metasurface: from polarization dependent directive electromagnetic wave scattering to diffusion-like scattering. Scientific Reports, 2016, 6, 35968.	3.3	113
97	Broadband microwave metamaterial absorber made of randomly distributed metallic loops. , 2016, , .		3
98	Nearly octave bandwidth microwave absorber with resistance loaded metamaterial. , 2015, , .		0
99	Gain and bandwidth enhanced patch antenna with phase compensation metasurface. , 2015, , .		2
100	Microwave absorber based on permeability-near-zero metamaterial made of Swiss roll structures. Journal Physics D: Applied Physics, 2015, 48, 455304.	2.8	12
101	Improving microwave antenna gain and bandwidth with phase compensation metasurface. AIP Advances, 2015, 5, .	1.3	51
102	Electromagnetic wave deflection and backward scattering reduction by flat meta-surfaces. , 2014, , .		5
103	Planar surface plasmonic waveguide devices based on symmetric corrugated thin film structures. Optics Express, 2014, 22, 20107.	3.4	129
104	Dynamic control of electromagnetic wave propagation with the equivalent principle inspired tunable metasurface. Scientific Reports, 2014, 4, .	3.3	93
105	Wideband low reflection backward scattering with an inter-band transparent window by phase tailoring of a frequency-selective metasurface. Journal Physics D: Applied Physics, 0, , .	2.8	3