

# Ke Chen

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5202762/publications.pdf>

Version: 2024-02-01

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	A Reconfigurable Active Huygens' Metasurface. <i>Advanced Materials</i> , 2017, 29, 1606422.	21.0	470
2	Ultrathin Single Layer Metasurfaces with Ultra-Wideband Operation for Both Transmission and Reflection. <i>Advanced Materials</i> , 2020, 32, e1907308.	21.0	215
3	Directional Janus Metasurface. <i>Advanced Materials</i> , 2020, 32, e1906352.	21.0	193
4	Coding metasurface for broadband microwave scattering reduction with optical transparency. <i>Optics Express</i> , 2017, 25, 5571.	3.4	143
5	Dual-Helicity Decoupled Coding Metasurface for Independent Spin-to-Orbital Angular Momentum Conversion. <i>Physical Review Applied</i> , 2019, 11, .	3.8	137
6	Planar surface plasmonic waveguide devices based on symmetric corrugated thin film structures. <i>Optics Express</i> , 2014, 22, 20107.	3.4	129
7	Geometric phase coded metasurface: from polarization dependent directive electromagnetic wave scattering to diffusion-like scattering. <i>Scientific Reports</i> , 2016, 6, 35968.	3.3	113
8	Dynamic Scattering Steering with Graphene-Based Coding Metamirror. <i>Advanced Optical Materials</i> , 2020, 8, 2000683.	7.3	103
9	Dynamic control of electromagnetic wave propagation with the equivalent principle inspired tunable metasurface. <i>Scientific Reports</i> , 2014, 4, .	3.3	93
10	Active Anisotropic Coding Metasurface with Independent Real-Time Reconfigurability for Dual Polarized Waves. <i>Advanced Materials Technologies</i> , 2020, 5, 1900930.	5.8	72
11	Programmable Coding Metasurface for Dual-Band Independent Real-Time Beam Control. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2020, 10, 20-28.	3.6	70
12	Dynamic control of asymmetric electromagnetic wave transmission by active chiral metamaterial. <i>Scientific Reports</i> , 2017, 7, 42802.	3.3	68
13	Switchable Broadband Dual-Polarized Frequency-Selective Resonator/Absorber. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019, 18, 2508-2512.	4.0	68
14	Metasurface Salisbury screen: achieving ultra-wideband microwave absorption. <i>Optics Express</i> , 2017, 25, 30241.	3.4	61
15	Optically transparent metasurface Salisbury screen with wideband microwave absorption. <i>Optics Express</i> , 2018, 26, 34384.	3.4	60
16	Broadband Spin-Decoupled Metasurface for Dual-Circularly Polarized Reflector Antenna Design. <i>IEEE Transactions on Antennas and Propagation</i> , 2020, 68, 3534-3543.	5.1	57
17	An Intelligent Programmable Omni-Directional Metasurface. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	56
18	Arbitrary and Dynamic Poincaré Sphere Polarization Converter with a Time-Varying Metasurface. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	52

#	ARTICLE	IF	CITATIONS
19	Improving microwave antenna gain and bandwidth with phase compensation metasurface. AIP Advances, 2015, 5, .	1.3	51
20	Ultra-Wideband Microwave Absorption by Design and Optimization of Metasurface Salisbury Screen. IEEE Access, 2018, 6, 26843-26853.	4.2	51
21	Broadband Polarization-Conversion Metasurface for a Cassegrain Antenna with High Polarization Purity. Physical Review Applied, 2019, 12, .	3.8	48
22	Ultra-broadband microwave absorption by ultra-thin metamaterial with stepped structure induced multi-resonances. Results in Physics, 2020, 18, 103320.	4.1	46
23	Multi-octave microwave absorption via conformal metamaterial absorber with optical transparency. Journal Physics D: Applied Physics, 2019, 52, 335101.	2.8	44
24	Airy Beam Generation: Approaching Ideal Efficiency and Ultra Wideband with Reflective and Transmissive Metasurfaces. Advanced Optical Materials, 2020, 8, 2000860.	7.3	44
25	Combining Frequency-Selective Scattering and Specular Reflection Through Phase-Dispersion Tailoring of a Metasurface. Physical Review Applied, 2018, 10, .	3.8	41
26	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
27	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
28	Angular-Adaptive Reconfigurable Spin-Locked Metasurface Retroreflector. Advanced Science, 2021, 8, e2100885.	11.2	35
29	A Dual-Polarized Reconfigurable Reflectarray Antenna Based on Dual-Channel Programmable Metasurface. IEEE Transactions on Antennas and Propagation, 2022, 70, 7403-7412.	5.1	35
30	Independent Energy Allocation of Dual-Helical Multi-Beams with Spin-Selective Transmissive Metasurface. Advanced Optical Materials, 2020, 8, 2000342.	7.3	34
31	Kirigami Reconfigurable Gradient Metasurface. Advanced Functional Materials, 2022, 32, 2107699.	14.9	34
32	Active Cylindrical Metasurface With Spatial Reconfigurability for Tunable Backward Scattering Reduction. IEEE Transactions on Antennas and Propagation, 2021, 69, 3332-3340.	5.1	32
33	Full control of conical beam carrying orbital angular momentum by reflective metasurface. Optics Express, 2018, 26, 20990.	3.4	29
34	Broadband microwave metamaterial absorber with lumped resistor loading. EPJ Applied Metamaterials, 2019, 6, 1.	1.5	29
35	Switchable metasurface for nearly perfect reflection, transmission, and absorption using PIN diodes. Optics Express, 2021, 29, 29320.	3.4	27
36	Direct routing of intensity-editable multi-beams by dual geometric phase interference in metasurface. Nanophotonics, 2020, 9, 2977-2987.	6.0	27

#	ARTICLE	IF	CITATIONS
37	Ultrawideband Spinâ€Decoupled Coding Metasurface for Independent Dualâ€Channel Wavefront Tailoring. Annalen Der Physik, 2020, 532, 1900472.	2.4	25
38	Binary geometric phase metasurface for ultra-wideband microwave diffuse scatterings with optical transparency. Optics Express, 2020, 28, 12638.	3.4	25
39	Multi-functional coding metasurface for dual-band independent electromagnetic wave control. Optics Express, 2019, 27, 19196.	3.4	24
40	Polarization-Selective Bifunctional Metasurface for High-Efficiency Millimeter-Wave Folded Transmitarray Antenna With Circular Polarization. IEEE Transactions on Antennas and Propagation, 2022, 70, 8184-8194.	5.1	21
41	Transmissive Metasurface With Independent Amplitude/Phase Control and Its Application to Low-Side-Lobe Metalens Antenna. IEEE Transactions on Antennas and Propagation, 2022, 70, 6526-6536.	5.1	19
42	An Ultrathin Tunable Metamaterial Absorber for Lower Microwave Band Based on Magnetic Nanomaterial. Nanomaterials, 2022, 12, 2135.	4.1	17
43	Independent Wavefront Tailoring in Full Polarization Channels by Helicityâ€Decoupled Metasurface. Annalen Der Physik, 2022, 534, 2100546.	2.4	14
44	Freeâ€Standing Singleâ€Layer Metasurface for Efficient and Broadband Tailoring of Terahertz Wavefront. Advanced Optical Materials, 2022, 10, .	7.3	13
45	Microwave absorber based on permeability-near-zero metamaterial made of Swiss roll structures. Journal Physics D: Applied Physics, 2015, 48, 455304.	2.8	12
46	An Active Metamaterial Absorber With Ultrawideband Continuous Tunability. IEEE Access, 2022, 10, 25290-25295.	4.2	12
47	Polarization-dependent bi-functional metasurface for directive radiation and diffusion-like scattering. AIP Advances, 2017, 7, .	1.3	11
48	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
49	Differential Signal Propagation in Spoof Plasmonic Structure and its Application in Microwave Filtering Balun. IEEE Access, 2020, 8, 109009-109014.	4.2	11
50	Quad-channel independent wavefront encoding with dual-band multitasking metasurface. Optics Express, 2021, 29, 15678.	3.4	10
51	Wideband Dual-Feed Dual-Polarized Reflectarray Antenna Using Anisotropic Metasurface. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 129-133.	4.0	10
52	Spatiotemporal Metasurface to Control Electromagnetic Wave Scattering. Physical Review Applied, 2022, 17, .	3.8	9
53	Threeâ€dimensional lightweight metamaterial with ultraâ€wideband microwave absorption. Microwave and Optical Technology Letters, 2022, 64, 500-506.	1.4	8
54	Filtering microwave differential signals through odd-mode spoof surface plasmon polariton propagation. Journal Physics D: Applied Physics, 2020, 53, 165105.	2.8	7

#	ARTICLE	IF	CITATIONS
55	A review of recent progress on directional metasurfaces: concept, design, and application. Journal Physics D: Applied Physics, 2022, 55, 383001.	2.8	7
56	Achieving Directive Radiation and Broadband Microwave Absorption by an Anisotropic Metasurface. IEEE Access, 2019, 7, 93919-93926.	4.2	6
57	Composite Strategy for Backward-Scattering Reduction of a Wavelength-Scale Cylindrical Object by an Ultrathin Metasurface. Physical Review Applied, 2019, 12, .	3.8	6
58	Multifunctional Metasurface for Broadband Reflect-Transmit-Array Antenna at 5G Millimeter-Wave Band. , 2022, , .		6
59	Electromagnetic wave deflection and backward scattering reduction by flat meta-surfaces. , 2014, , .		5
60	Generation of conical beam by reflective metasurface. , 2018, , .		4
61	Four-Channel Kaleidoscopic Metasurfaces Enabled by a Single-Layered Single-Cell Quad-Band Meta-Atom. Advanced Theory and Simulations, 2022, 5, .	2.8	4
62	Broadband microwave metamaterial absorber made of randomly distributed metallic loops. , 2016, , .		3
63	Independent dual-beam control based on programmable coding metasurface. Wuli Xuebao/Acta Physica Sinica, 2021, 70, 178102.	0.5	3
64	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
65	Gain and bandwidth enhanced patch antenna with phase compensation metasurface. , 2015, , .		2
66	Water droplets: Toward broadband metamaterial microwave absorber. , 2016, , .		2
67	Optically Transparent Metasurfaces for Controlling Microwave Scattering and Absorption. , 2018, , .		2
68	Filtering Balun Based on Spoof Surface Plasmon Polariton. , 2018, , .		2
69	Ultrathin L-band Microwave Tunable Metamaterial Absorber. , 2019, , .		2
70	Ultra-Thin Conformal Metasurface for Backward RCS Reduction of Large Cylindrical Object. , 2019, , .		2
71	Controlling Conical Beam Carrying Orbital Angular Momentum with Transmissive Metasurface. International Journal of Antennas and Propagation, 2021, 2021, 1-10.	1.2	2
72	Broadband Tunable Metamaterial Absorber with Active Lumped Diodes. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
73	Manipulating Propagation and Scattering of Microwave by Optically Transparent Metasurface. , 2018, , .		1
74	Reflective 1-bit Coding Metasurface for Frequency Selective RCS Reduction. , 2018, , .		1
75	Dynamic control of microwave with tunable metamaterial and metasurface. , 2018, , .		1
76	Tunable Low-Frequency Broadband Dual-Polarized Resorber. , 2018, , .		1
77	Broadening the Bandwidth of the Electromagnetic Metamaterial Absorber. , 2018, , .		1
78	A Low Profile Broadband Cassegrain Reflectarray. , 2019, , .		1
79	Polarization- and Frequency-Controlled Multifunctional Coding Metasurface. , 2020, , .		1
80	Asymmetric Harmonic Manipulation of Electromagnetic Wave by 2-bit Time-varying Coding Metasurface. , 2020, , .		1
81	Design of a Frequency-Tunable Frequency-Selective Surface with High-Selectivity. , 2020, , .		1
82	Harmonic Manipulation of Microwave by Time-varying Polarization-converting Metasurface. , 2020, , .		1
83	Reconfigurable Intelligent Surface Enhancing In-door Wireless Communication. , 2021, , .		1
84	Reconfigurable Intelligent Surface for Regional Signal Enhancement. , 2021, , .		1
85	Nearly octave bandwidth microwave absorber with resistance loaded metamaterial. , 2015, , .		0
86	Bi-functional metasurface controlling electromagnetic wave scattering of differently polarized wave. , 2017, , .		0
87	Designing metasurface through surface impedance mapping and equivalent circuit model. , 2017, , .		0
88	Geometric phase coded microwave metasurface for ultra-wideband radar cross section reduction. , 2017, , .		0
89	Bifunctional metasurface for independently generating vortex beams and pencil beams. , 2018, , .		0
90	Compact Multibeam Metasurface Lens Antenna with Circular Polarization for 5G Millimeter-Wave Application. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
91	Direct-modulation Wireless Communication with Real-time Programmable Metasurface. , 2021, , .		0
92	Multi-functional metasurfaces and their applications. , 2021, , .		0
93	Graphene-based Terahertz metasurface Salisbury screen with tunable wideband absorption. , 2019, , .		0
94	Reconfigurable Coding Metasurface for Dual-band Dynamic Near-field Microwave Focusing. , 2020, , .		0
95	Flexible Multiplexing of High-order Poincaré Sphere Beams with Reflective Metasurface. , 2021, , .		0
96	Birefringent Metasurface and Its Application to Dual-polarized Reflectarray Antenna. , 2021, , .		0
97	Paper-based Metasurface with Broadband RCS Reduction Based on Diffusion and Absorption. , 2021, , .		0
98	Birefringent Metasurface and Its Application to Dual-polarized Reflectarray Antenna. , 2021, , .		0
99	An Active Frequency Reconfigurable Epsilon-near-zero Antenna. , 2021, , .		0
100	Active Planar Van Atta Array Reflector with Switchable Retroreflection. , 2021, , .		0
101	Kirigami Reconfigurable Gradient Metasurface (Adv. Funct. Mater. 5/2022). Advanced Functional Materials, 2022, 32, .	14.9	0
102	Tunable Non-Diffraction Spoof Surface Plasmon Polaritons with Liquid Crystal Terahertz Metasurface. , 2021, , .		0
103	Bidirectional Folded Transmitarray Antenna Using Full-Space Chiral Metasurfaces. , 2021, , .		0
104	Dual-frequency Direct Wireless Communication with Programmable Meta-mirror. , 2021, , .		0
105	Anisotropic Time-varying Metasurface for Real-time Polarization Conversion. , 2022, , .		0