

Junming Zhao

List of Publications by Year in descending order

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103
papers

2,711
citations

257450

24
h-index

197818

49
g-index

103
all docs

103
docs citations

103
times ranked

2096
citing authors

#	ARTICLE	IF	CITATIONS
1	A Reconfigurable Active Huygens' Metaleins. <i>Advanced Materials</i> , 2017, 29, 1606422.	21.0	470
2	Graphene based tunable metamaterial absorber and polarization modulation in terahertz frequency. <i>Optics Express</i> , 2014, 22, 22743.	3.4	336
3	Switchable metamaterial reflector/absorber for different polarized electromagnetic waves. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	228
4	Directional Janus Metasurface. <i>Advanced Materials</i> , 2020, 32, e1906352.	21.0	193
5	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
6	Tunable broadband polarization rotator in terahertz frequency based on graphene metamaterial. <i>Carbon</i> , 2018, 133, 170-175.	10.3	104
7	Dynamic control of electromagnetic wave propagation with the equivalent principle inspired tunable metasurface. <i>Scientific Reports</i> , 2014, 4, .	3.3	93
8	Active Anisotropic Coding Metasurface with Independent Real-Time Reconfigurability for Dual Polarized Waves. <i>Advanced Materials Technologies</i> , 2020, 5, 1900930.	5.8	72
9	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
10	Dynamic control of asymmetric electromagnetic wave transmission by active chiral metamaterial. <i>Scientific Reports</i> , 2017, 7, 42802.	3.3	68
11	Switchable Broadband Dual-Polarized Frequency-Selective Resorber/Absorber. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019, 18, 2508-2512.	4.0	68
12	Graphene-enabled tunable multifunctional metamaterial for dynamical polarization manipulation of broadband terahertz wave. <i>Carbon</i> , 2020, 163, 244-252.	10.3	59
13	Broadband diffuse terahertz wave scattering by flexible metasurface with randomized phase distribution. <i>Scientific Reports</i> , 2016, 6, 26875.	3.3	57
14	An Intelligent Programmable Omni-Metasurface. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	56
15	Arbitrary and Dynamic Poincaré Sphere Polarization Converter with a Time-Varying Metasurface. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	52
16	Improving microwave antenna gain and bandwidth with phase compensation metasurface. <i>AIP Advances</i> , 2015, 5, .	1.3	51
17	Microwave Metamaterial Absorber for Non-Destructive Sensing Applications of Grain. <i>Sensors</i> , 2018, 18, 1912.	3.8	45
18	Backward spoof surface wave in plasmonic metamaterial of ultrathin metallic structure. <i>Scientific Reports</i> , 2016, 6, 20448.	3.3	40

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19	Angular-Adaptive Reconfigurable Spin-Locked Metasurface Retroreflector. <i>Advanced Science</i> , 2021, 8, e21100885.	11.2	35
20	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
21	Independent Energy Allocation of Dual-Helical Multi-Beams with Spin-Selective Transmissive Metasurface. <i>Advanced Optical Materials</i> , 2020, 8, 2000342.	7.3	34
22	Kirigami Reconfigurable Gradient Metasurface. <i>Advanced Functional Materials</i> , 2022, 32, 2107699.	14.9	34
23	Active Cylindrical Metasurface With Spatial Reconfigurability for Tunable Backward Scattering Reduction. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 3332-3340.	5.1	32
24	Dark Schrödinger solitons and harmonic generation in left-handed nonlinear transmission line. <i>Journal of Applied Physics</i> , 2010, 107, 094907.	2.5	30
25	Direct routing of intensity-editable multi-beams by dual geometric phase interference in metasurface. <i>Nanophotonics</i> , 2020, 9, 2977-2987.	6.0	27
26	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
27	Dual-band asymmetric electromagnetic wave transmission for dual polarizations in chiral metamaterial structure. <i>Applied Physics B: Lasers and Optics</i> , 2014, 117, 527-531.	2.2	20
28	Terahertz beam switching by electrical control of graphene-enabled tunable metasurface. <i>Scientific Reports</i> , 2017, 7, 14147.	3.3	20
29	Graphene-enabled active metamaterial for dynamical manipulation of terahertz reflection/transmission/absorption. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126840.	2.1	20
30	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
31	An Ultrathin Tunable Metamaterial Absorber for Lower Microwave Band Based on Magnetic Nanomaterial. <i>Nanomaterials</i> , 2022, 12, 2135.	4.1	17
32	Sub-wavelength image manipulating through compensated anisotropic metamaterial prisms. <i>Optics Express</i> , 2008, 16, 18057.	3.4	14
33	Independent Wavefront Tailoring in Full Polarization Channels by Helicity-Decoupled Metasurface. <i>Annalen Der Physik</i> , 2022, 534, 2100546.	2.4	14
34	Free-Standing Single-Layer Metasurface for Efficient and Broadband Tailoring of Terahertz Wavefront. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	13
35	An Active Metamaterial Absorber With Ultrawideband Continuous Tunability. <i>IEEE Access</i> , 2022, 10, 25290-25295.	4.2	12
36	Anomalous reflection and refraction in anisotropic metamaterial realized by periodically loaded transmission line network. <i>Journal of Applied Physics</i> , 2006, 100, 114901.	2.5	11

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37	Polarization-dependent bi-functional metasurface for directive radiation and diffusion-like scattering. <i>AIP Advances</i> , 2017, 7, .	1.3	11
38	Differential Signal Propagation in Spoof Plasmonic Structure and its Application in Microwave Filtering Balun. <i>IEEE Access</i> , 2020, 8, 109009-109014.	4.2	11
39	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
40	Spatiotemporal Metasurface to Control Electromagnetic Wave Scattering. <i>Physical Review Applied</i> , 2022, 17, .	3.8	9
41	A broadband reflective-type half-wave plate employing optical feedbacks. <i>Scientific Reports</i> , 2017, 7, 9103.	3.3	8
42	Three-dimensional lightweight metamaterial with ultra-wideband microwave absorption. <i>Microwave and Optical Technology Letters</i> , 2022, 64, 500-506.	1.4	8
43	Designing retrodirective reflector on a planar surface by transformation optics. <i>AIP Advances</i> , 2013, 3, .	1.3	7
44	Selective wave-transmitting electromagnetic absorber through composite metasurface. <i>AIP Advances</i> , 2017, 7, 115017.	1.3	7
45	A self-similar fractal electromagnetic band-gap structure in the power plane with broadband suppression of ground bounce noise. <i>Microwave and Optical Technology Letters</i> , 2007, 49, 190-192.	1.4	6
46	Achieving Directive Radiation and Broadband Microwave Absorption by an Anisotropic Metasurface. <i>IEEE Access</i> , 2019, 7, 93919-93926.	4.2	6
47	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
48	Dynamic control of electromagnetic wave polarization and phase through active metasurfaces. , 2014, , .		5
49	Omni-Directional Microstrip Ring Antenna Based On a Simplified Left-Handed Transmission Line Structure. , 2006, , .		3
50	Broadband microwave metamaterial absorber made of randomly distributed metallic loops. , 2016, , .		3
51	A Novel Electromagnetic Band-gap Structure for Ultra-Wide Band Suppression of Ground Bounce Noise. , 2007, , .		2
52	Schrödinger solitons and harmonic generation in short left-handed nonlinear transmission line metamaterial. , 2009, , .		2
53	Water droplets: Toward broadband metamaterial microwave absorber. , 2016, , .		2
54	Flexible low-scattering metasurface utilizing randomly distributed elements of variable sizes. , 2016, , .		2

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55	Ultrathin L-band Microwave Tunable Metamaterial Absorber. , 2019, , .		2
56	Controlling Conical Beam Carrying Orbital Angular Momentum with Transmissive Metasurface. International Journal of Antennas and Propagation, 2021, 2021, 1-10.	1.2	2
57	Wireless Communication Utilizing Berryâ€™Phase Carriers. Laser and Photonics Reviews, 2022, 16, .	8.7	2
58	Extraordinary transmission with evanescent wave enhancement in planar waveguide loaded with anisotropic metamaterials. , 2008, , .		1
59	Manipulating electromagnetic wave propagation, absorption and polarization with metamaterials. , 2012, , .		1
60	Controllable metamaterial absorbers. , 2013, , .		1
61	Tunable, switchable, and one-way electromagnetic wave absorbers based on metamaterial structures. , 2014, , .		1
62	Tunable ultra-thin P-band absorber based on permeability-near-zero metamaterial. , 2017, , .		1
63	Manipulating Propagation and Scattering of Microwave by Optically Transparent Metasurface. , 2018, , .		1
64	Tunable Low-Frequency Broadband Dual-Polarized Resorber. , 2018, , .		1
65	Broadening the Bandwidth of the Electromagnetic Metamaterial Absorber. , 2018, , .		1
66	Broadband Microwave Absorber by direct drawing Metamaterial on Paper. , 2019, , .		1
67	Asymmetric Harmonic Manipulation of Electromagnetic Wave by 2-bit Time-varying Coding Metasurface. , 2020, , .		1
68	Design of a Frequency-Tunable Frequency-Selective Surface with High-Selectivity. , 2020, , .		1
69	Harmonic Manipulation of Microwave by Time-varying Polarization-converting Metasurface. , 2020, , .		1
70	Reconfigurable Intelligent Surface Enhancing In-door Wireless Communication. , 2021, , .		1
71	Reconfigurable Intelligent Surface for Regional Signal Enhancement. , 2021, , .		1
72	High Impedance Reflection at Surface of Anisotropic Metamaterial Realized by Loaded Transmission-line Networks. , 2006, , .		0

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73	Experimental Verification of Sub-diffraction Imaging by Compensated Bilayer of Transmission Line Metamaterials. , 2006, , .		0
74	Optical polarization beam splitting through anisotropic metamaterial slab realized by layered metal-dielectric system. , 2007, , .		0
75	Sub-diffraction Focusing through Compensated Bilayer of Anisotropic Metamaterials: Theoretical Analysis and Experimental Verification. , 2007, , .		0
76	Light trapper by tapered air core in anisotropic metamaterial. , 2008, , .		0
77	Stopped electromagnetic wave in an air waveguide with anisotropic metamaterial cladding. , 2008, , .		0
78	Transient investigation of sub-wavelength electromagnetic wave focusing through transmission line metamaterials. , 2011, , .		0
79	Designing planar electromagnetic wave reflectors through transformation optics. , 2012, , .		0
80	One-way electromagnetic energy absorber base on composite metamaterial slabs. , 2012, , .		0
81	Design and realization of planar reflectors through transformation optics. , 2013, , .		0
82	Analog study of near-field focusing and subwavelength imaging with nonlinear transmission-line metamaterial. Science China Information Sciences, 2013, 56, 1-8.	4.3	0
83	Polarization selective one-way microwave absorber based on composite metamaterial. , 2014, , .		0
84	Nearly octave bandwidth microwave absorber with resistance loaded metamaterial. , 2015, , .		0
85	A reflective wide-angle broadband polarizer based on field transformation. , 2015, , .		0
86	Manipulating electromagnetic wave in subwavelength using infinity-anisotropic metamaterials. , 2016, , .		0
87	Designing metasurface through surface impedance mapping and equivalent circuit model. , 2017, , .		0
88	A tunable water-based metamaterial microwa absorber. , 2017, , .		0
89	Geometric phase coded microwave metasurface for ultra-wideband radar cross section reduction. , 2017, , .		0
90	Dual-polarization absorptive/transmissive frequency-selective surface utilizing composite metamaterial. , 2017, , .		0

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91	Bifunctional metasurface for independently generating vortex beams and pencil beams. , 2018, , .		0
92	Compact Multibeam Metasurface Lens Antenna with Circular Polarization for 5G Millimeter-Wave Application. , 2021, , .		0
93	Direct-modulation Wireless Communication with Real-time Programmable Metasurface. , 2021, , .		0
94	Multi-functional metasurfaces and their applications. , 2021, , .		0
95	Graphene-based Terahertz metasurface Salisbury screen with tunable wideband absorption. , 2019, , .		0
96	Reconfigurable Coding Metasurface for Dual-band Dynamic Near-field Microwave Focusing. , 2020, , .		0
97	An Ultra-Wideband Tunable Absorber based on Metamaterial for UHF Band. , 2020, , .		0
98	Flexible Multiplexing of High-order Poincaré Sphere Beams with Reflective Metasurface. , 2021, , .		0
99	Paper-based Metasurface with Broadband RCS Reduction Based on Diffusion and Absorption. , 2021, , .		0
100	An Active Frequency Reconfigurable Epsilon-near-zero Antenna. , 2021, , .		0
101	Active Planar Van Atta Array Reflector with Switchable Retroreflection. , 2021, , .		0
102	Kirigami Reconfigurable Gradient Metasurface (Adv. Funct. Mater. 5/2022). Advanced Functional Materials, 2022, 32, .	14.9	0
103	Tunable Non-Diffraction Spoof Surface Plasmon Polaritons with Liquid Crystal Terahertz Metasurface. , 2021, , .		0