

Junming Zhao

List of Publications by Year in descending order

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103
papers

2,711
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257450

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103
docs citations

103
times ranked

2096
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	Wireless Communication Utilizing Berry-Phase Carriers. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	2
6	Kirigami Reconfigurable Gradient Metasurface (Adv. Funct. Mater. 5/2022). <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	0
7	An Active Metamaterial Absorber With Ultrawideband Continuous Tunability. <i>IEEE Access</i> , 2022, 10, 25290-25295.	4.2	12
8	An Intelligent Programmable Omni-Metasurface. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	56
9	Arbitrary and Dynamic Poincaré Sphere Polarization Converter with a Time-Varying Metasurface. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	52
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	Free-Standing Single-Layer Metasurface for Efficient and Broadband Tailoring of Terahertz Wavefront. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	13
15	An Ultrathin Tunable Metamaterial Absorber for Lower Microwave Band Based on Magnetic Nanomaterial. <i>Nanomaterials</i> , 2022, 12, 2135.	4.1	17
16	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
17	Compact Multibeam Metasurface Lens Antenna with Circular Polarization for 5G Millimeter-Wave Application. , 2021, , .		0
18	Direct-modulation Wireless Communication with Real-time Programmable Metasurface. , 2021, , .		0

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19	Controlling Conical Beam Carrying Orbital Angular Momentum with Transmissive Metasurface. International Journal of Antennas and Propagation, 2021, 2021, 1-10.	1.2	2
20	Angular Adaptive Reconfigurable Spin-Locked Metasurface Retroreflector. Advanced Science, 2021, 8, e2100885.	11.2	35
21	Multi-functional metasurfaces and their applications. , 2021, , .		0
22	Flexible Multiplexing of High-order Poincaré Sphere Beams with Reflective Metasurface. , 2021, , .		0
23	Paper-based Metasurface with Broadband RCS Reduction Based on Diffusion and Absorption. , 2021, , .		0
24	An Active Frequency Reconfigurable Epsilon-near-zero Antenna. , 2021, , .		0
25	Active Planar Van Atta Array Reflector with Switchable Retroreflection. , 2021, , .		0
26	Tunable Non-Diffraction Spoof Surface Plasmon Polaritons with Liquid Crystal Terahertz Metasurface. , 2021, , .		0
27	Reconfigurable Intelligent Surface Enhancing In-door Wireless Communication. , 2021, , .		1
28	Reconfigurable Intelligent Surface for Regional Signal Enhancement. , 2021, , .		1
29	Active Anisotropic Coding Metasurface with Independent Real-Time Reconfigurability for Dual Polarized Waves. Advanced Materials Technologies, 2020, 5, 1900930.	5.8	72
30	Directional Janus Metasurface. Advanced Materials, 2020, 32, e1906352.	21.0	193
31	Graphene-enabled tunable multifunctional metamaterial for dynamical polarization manipulation of broadband terahertz wave. Carbon, 2020, 163, 244-252.	10.3	59
32	Differential Signal Propagation in Spoof Plasmonic Structure and its Application in Microwave Filtering Balun. IEEE Access, 2020, 8, 109009-109014.	4.2	11
33	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
34	Independent Energy Allocation of Dual-Helical Multi-Beams with Spin-Selective Transmissive Metasurface. Advanced Optical Materials, 2020, 8, 2000342.	7.3	34
35	Graphene-enabled active metamaterial for dynamical manipulation of terahertz reflection/transmission/absorption. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126840.	2.1	20
36	Direct routing of intensity-editable multi-beams by dual geometric phase interference in metasurface. Nanophotonics, 2020, 9, 2977-2987.	6.0	27

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37	Reconfigurable Coding Metasurface for Dual-band Dynamic Near-field Microwave Focusing. , 2020, , .		0
38	Asymmetric Harmonic Manipulation of Electromagnetic Wave by 2-bit Time-varying Coding Metasurface. , 2020, , .		1
39	An Ultra-Wideband Tunable Absorber based on Metamaterial for UHF Band. , 2020, , .		0
40	Design of a Frequency-Tunable Frequency-Selective Surface with High-Selectivity. , 2020, , .		1
41	Harmonic Manipulation of Microwave by Time-varying Polarization-converting Metasurface. , 2020, , .		1
42	Achieving Directive Radiation and Broadband Microwave Absorption by an Anisotropic Metasurface. IEEE Access, 2019, 7, 93919-93926.	4.2	6
43	Switchable Broadband Dual-Polarized Frequency-Selective Resorber/Absorber. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2508-2512.	4.0	68
44	Ultrathin L-band Microwave Tunable Metamaterial Absorber. , 2019, , .		2
45	Broadband Microwave Absorber by direct drawing Metamaterial on Paper. , 2019, , .		1
46	Composite Strategy for Backward-Scattering Reduction of a Wavelength-Scale Cylindrical Object by an Ultrathin Metasurface. Physical Review Applied, 2019, 12, .	3.8	6
47	Graphene-based Terahertz metasurface Salisbury screen with tunable wideband absorption. , 2019, , .		0
48	Tunable broadband polarization rotator in terahertz frequency based on graphene metamaterial. Carbon, 2018, 133, 170-175.	10.3	104
49	Manipulating Propagation and Scattering of Microwave by Optically Transparent Metasurface. , 2018, , .		1
50	Bifunctional metasurface for independently generating vortex beams and pencil beams. , 2018, , .		0
51	Tunable Low-Frequency Broadband Dual-Polarized Resorber. , 2018, , .		1
52	Broadening the Bandwidth of the Electromagnetic Metamaterial Absorber. , 2018, , .		1
53	Microwave Metamaterial Absorber for Non-Destructive Sensing Applications of Grain. Sensors, 2018, 18, 1912.	3.8	45
54	A Reconfigurable Active Huygens' Metalens. Advanced Materials, 2017, 29, 1606422.	21.0	470

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55	Dynamic control of asymmetric electromagnetic wave transmission by active chiral metamaterial. Scientific Reports, 2017, 7, 42802.	3.3	68
56	Designing metasurface through surface impedance mapping and equivalent circuit model. , 2017, , .		0
57	Terahertz beam switching by electrical control of graphene-enabled tunable metasurface. Scientific Reports, 2017, 7, 14147.	3.3	20
58	A broadband reflective-type half-wave plate employing optical feedbacks. Scientific Reports, 2017, 7, 9103.	3.3	8
59	Polarization-dependent bi-functional metasurface for directive radiation and diffusion-like scattering. AIP Advances, 2017, 7, .	1.3	11
60	Selective wave-transmitting electromagnetic absorber through composite metasurface. AIP Advances, 2017, 7, 115017.	1.3	7
61	A tunable water-based metamaterial microwave absorber. , 2017, , .		0
62	Geometric phase coded microwave metasurface for ultra-wideband radar cross section reduction. , 2017, , .		0
63	Dual-polarization absorptive/transmissive frequency-selective surface utilizing composite metamaterial. , 2017, , .		0
64	Tunable ultra-thin P-band absorber based on permeability-near-zero metamaterial. , 2017, , .		1
65	Water droplets: Toward broadband metamaterial microwave absorber. , 2016, , .		2
66	Geometric phase coded metasurface: from polarization dependent directive electromagnetic wave scattering to diffusion-like scattering. Scientific Reports, 2016, 6, 35968.	3.3	113
67	Flexible low-scattering metasurface utilizing randomly distributed elements of variable sizes. , 2016, , .		2
68	Broadband microwave metamaterial absorber made of randomly distributed metallic loops. , 2016, , .		3
69	Broadband diffuse terahertz wave scattering by flexible metasurface with randomized phase distribution. Scientific Reports, 2016, 6, 26875.	3.3	57
70	Manipulating electromagnetic wave in subwavelength using infinity-anisotropic metamaterials. , 2016, , .		0
71	Backward spoof surface wave in plasmonic metamaterial of ultrathin metallic structure. Scientific Reports, 2016, 6, 20448.	3.3	40
72	Nearly octave bandwidth microwave absorber with resistance loaded metamaterial. , 2015, , .		0

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73	A reflective wide-angle broadband polarizer based on field transformation. , 2015, , .		0
74	Improving microwave antenna gain and bandwidth with phase compensation metasurface. AIP Advances, 2015, 5, .	1.3	51
75	Graphene based tunable metamaterial absorber and polarization modulation in terahertz frequency. Optics Express, 2014, 22, 22743.	3.4	336
76	Dynamic control of electromagnetic wave polarization and phase through active metasurfaces. , 2014, , .		5
77	Polarization selective one-way microwave absorber based on composite metamaterial. , 2014, , .		0
78	Tunable, switchable, and one-way electromagnetic wave absorbers based on metamaterial structures. , 2014, , .		1
79	Dual-band asymmetric electromagnetic wave transmission for dual polarizations in chiral metamaterial structure. Applied Physics B: Lasers and Optics, 2014, 117, 527-531.	2.2	20
80	Dynamic control of electromagnetic wave propagation with the equivalent principle inspired tunable metasurface. Scientific Reports, 2014, 4, .	3.3	93
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	Controllable metamaterial absorbers. , 2013, , .		1
84	Designing retrodirective reflector on a planar surface by transformation optics. AIP Advances, 2013, 3, .	1.3	7
85	Manipulating electromagnetic wave propagation, absorption and polarization with metamaterials. , 2012, , .		1
86	Designing planar electromagnetic wave reflectors through transformation optics. , 2012, , .		0
87	One-way electromagnetic energy absorber base on composite metamaterial slabs. , 2012, , .		0
88	Transient investigation of sub-wavelength electromagnetic wave focusing through transmission line metamaterials. , 2011, , .		0
89	Dark Schrödinger solitons and harmonic generation in left-handed nonlinear transmission line. Journal of Applied Physics, 2010, 107, 094907.	2.5	30
90	Switchable metamaterial reflector/absorber for different polarized electromagnetic waves. Applied Physics Letters, 2010, 97, .	3.3	228

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91	Schrödinger solitons and harmonic generation in short left-handed nonlinear transmission line metamaterial. , 2009, , .		2
92	Sub-wavelength image manipulating through compensated anisotropic metamaterial prisms. Optics Express, 2008, 16, 18057.	3.4	14
93	Light trapper by tapered air core in anisotropic metamaterial. , 2008, , .		0
94	Stopped electromagnetic wave in an air waveguide with anisotropic metamaterial cladding. , 2008, , .		0
95	Extraordinary transmission with evanescent wave enhancement in planar waveguide loaded with anisotropic metamaterials. , 2008, , .		1
96	A Novel Electromagnetic Band-gap Structure for Ultra-Wide Band Suppression of Ground Bounce Noise. , 2007, , .		2
97	Optical polarization beam splitting through anisotropic metamaterial slab realized by layered metal-dielectric system. , 2007, , .		0
98	Sub-diffraction Focusing through Compensated Bilayer of Anisotropic Metamaterials: Theoretical Analysis and Experimental Verification. , 2007, , .		0
99	A self-similar fractal electromagnetic band-gap structure in the power plane with broadband suppression of ground bounce noise. Microwave and Optical Technology Letters, 2007, 49, 190-192.	1.4	6
100	Omni-Directional Microstrip Ring Antenna Based On a Simplified Left-Handed Transmission Line Structure. , 2006, , .		3
101	Anomalous reflection and refraction in anisotropic metamaterial realized by periodically loaded transmission line network. Journal of Applied Physics, 2006, 100, 114901.	2.5	11
102	High Impedance Reflection at Surface of Anisotropic Metamaterial Realized by Loaded Transmission-line Networks. , 2006, , .		0
103	Experimental Verification of Sub-diffraction Imaging by Compensated Bilayer of Transmission Line Metamaterials. , 2006, , .		0