Tian Jiang

List of Publications by Year in descending order

77 papers	2,647 citations	279798 23 h-index	233421 45 g-index
77 all docs	77 docs citations	77 times ranked	1984 citing authors

#	Article	IF	Citations
1	Kirigami Reconfigurable Gradient Metasurface. Advanced Functional Materials, 2022, 32, 2107699.	14.9	34
2	Independent Wavefront Tailoring in Full Polarization Channels by Helicityâ€Decoupled Metasurface. Annalen Der Physik, 2022, 534, 2100546.	2.4	14
3	Threeâ€dimensional lightweight metamaterial with ultraâ€wideband microwave absorption. Microwave and Optical Technology Letters, 2022, 64, 500-506.	1.4	8
4	Wideband Dual-Feed Dual-Polarized Reflectarray Antenna Using Anisotropic Metasurface. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 129-133.	4.0	10
5	Kirigami Reconfigurable Gradient Metasurface (Adv. Funct. Mater. 5/2022). Advanced Functional Materials, 2022, 32, .	14.9	0
6	An Intelligent Programmable Omniâ€Metasurface. Laser and Photonics Reviews, 2022, 16, .	8.7	56
7	Arbitrary and Dynamic PoincarÃ© Sphere Polarization Converter with a Timeâ€Varying Metasurface. Advanced Optical Materials, 2022, 10, .	7.3	52
8	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
9	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
10	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
11	Spatiotemporal Metasurface to Control Electromagnetic Wave Scattering. Physical Review Applied, 2022, 17, .	3.8	9
12	Freeâ€Standing Singleâ€Layer Metasurface for Efficient and Broadband Tailoring of Terahertz Wavefront. Advanced Optical Materials, 2022, 10, .	7.3	13
13	Active Cylindrical Metasurface With Spatial Reconfigurability for Tunable Backward Scattering Reduction. IEEE Transactions on Antennas and Propagation, 2021, 69, 3332-3340.	5.1	32
14	Independent dual-beam control based on programmable coding metasurface. Wuli Xuebao/Acta Physica Sinica, 2021, 70, 178102.	0.5	3
15	Direct-modulation Wireless Communication with Real-time Programmable Metasurface. , 2021, , .		0
16	Controlling Conical Beam Carrying Orbital Angular Momentum with Transmissive Metasurface. International Journal of Antennas and Propagation, 2021, 2021, 1-10.	1.2	2
17	Angularâ€Adaptive Reconfigurable Spinâ€Locked Metasurface Retroreflector. Advanced Science, 2021, 8, e2100885.	11.2	35
18	Multi-functional metasurfaces and their applications. , 2021, , .		0

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19	Flexible Multiplexing of High-order PoincarÃ© Sphere Beams with Reflective Metasurface. , 2021, , .		0
20	An Active Frequency Reconfigurable Epsilon-near-zero Antenna. , 2021, , .		0
21	Active Anisotropic Coding Metasurface with Independent Realâ€Time Reconfigurability for Dual Polarized Waves. Advanced Materials Technologies, 2020, 5, 1900930.	5.8	72
22	Directional Janus Metasurface. Advanced Materials, 2020, 32, e1906352.	21.0	193
23	Independent Energy Allocation of Dualâ€Helical Multiâ€Beams with Spinâ€Selective Transmissive Metasurface. Advanced Optical Materials, 2020, 8, 2000342.	7.3	34
24	Direct routing of intensity-editable multi-beams by dual geometric phase interference in metasurface. Nanophotonics, 2020, 9, 2977-2987.	6.0	27
25	Design of a Frequency-Tunable Frequency-Selective Surface with High-Selectivity. , 2020, , .		1
26	Achieving Directive Radiation and Broadband Microwave Absorption by an Anisotropic Metasurface. IEEE Access, 2019, 7, 93919-93926.	4.2	6
27	Ultrathin L-band Microwave Tunable Metamaterial Absorber. , 2019, , .		2
28	Dual-Helicity Decoupled Coding Metasurface for Independent Spin-to-Orbital Angular Momentum Conversion. Physical Review Applied, 2019, 11, .	3.8	137
29	Composite Strategy for Backward-Scattering Reduction of a Wavelength-Scale Cylindrical Object by an Ultrathin Metasurface. Physical Review Applied, 2019, 12, .	3.8	6
30	Tunable Low-Frequency Broadband Dual-Polarized Rasorber. , 2018, , .		1
31	Broadening the Bandwidth of the Electromagnetic Metamaterial Absorber. , 2018, , .		1
32	Full control of conical beam carrying orbital angular momentum by reflective metasurface. Optics Express, 2018, 26, 20990.	3.4	29
33	A Reconfigurable Active Huygens' Metalens. Advanced Materials, 2017, 29, 1606422.	21.0	470
34	Dynamic control of asymmetric electromagnetic wave transmission by active chiral metamaterial. Scientific Reports, 2017, 7, 42802.	3.3	68
35	Designing metasurface through surface impedance mapping and equivalent circuit model. , 2017, , .		0
36	Terahertz beam switching by electrical control of graphene-enabled tunable metasurface. Scientific Reports, 2017, 7, 14147.	3.3	20

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37	Polarization-dependent bi-functional metasurface for directive radiation and diffusion-like scattering. AIP Advances, 2017, 7, .	1.3	11
38	Selective wave-transmitting electromagnetic absorber through composite metasurface. AIP Advances, 2017, 7, 115017.	1.3	7
39	Geometric phase coded microwave metasurface for ultra-wideband radar cross section reduction. , 2017, , .		0
40	Dual-polarization absorptive/transmissive frequency-selective surface utilizing composite metamaterial. , 2017, , .		0
41	Coding metasurface for broadband microwave scattering reduction with optical transparency. Optics Express, 2017, 25, 5571.	3.4	143
42	Tunable ultra-thin P-band absorber based on permeability-near-zero metamaterial. , 2017, , .		1
43	Geometric phase coded metasurface: from polarization dependent directive electromagnetic wave scattering to diffusion-like scattering. Scientific Reports, 2016, 6, 35968.	3.3	113
44	Flexible low-scattering metasurface utilizing randomly distributed elements of variable sizes. , 2016, , .		2
45	Broadband diffuse terahertz wave scattering by flexible metasurface with randomized phase distribution. Scientific Reports, 2016, 6, 26875.	3.3	57
46	Backward spoof surface wave in plasmonic metamaterial of ultrathin metallic structure. Scientific Reports, 2016, 6, 20448.	3.3	40
47	Nearly octave bandwidth microwave absorber with resistance loaded metamaterial. , 2015, , .		0
48	Improving microwave antenna gain and bandwidth with phase compensation metasurface. AIP Advances, 2015, 5, .	1.3	51
49	Dynamic control of electromagnetic wave polarization and phase through active metasurfaces. , 2014, , .		5
50	Tunable, switchable, and one-way electromagnetic wave absorbers based on metamaterial structures. , 2014, , .		1
51	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
52	Dynamic control of electromagnetic wave propagation with the equivalent principle inspired tunable metasurface. Scientific Reports, 2014, 4, .	3.3	93
53	Design and realization of planar reflectors through transformation optics. , 2013, , .		0
54	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

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55	Controllable metamaterial absorbers. , 2013, , .		1
56	Designing retrodirective reflector on a planar surface by transformation optics. AIP Advances, 2013, 3, .	1.3	7
57	Manipulating electromagnetic wave propagation, absorption and polarization with metamaterials. , 2012, , .		1
58	Designing planar electromagnetic wave reflectors through transformation optics. , 2012, , .		0
59	Asymmetric electromagnetic wave transmission of linear polarization via polarization conversion through chiral metamaterial structures. Physical Review B, 2012, 85, .	3.2	284
60	Manipulating electromagnetic radiation through metamaterial structures designed by coordinate transformation. , 2010, , .		1
61	Dark SchrÃ¶dinger solitons and harmonic generation in left-handed nonlinear transmission line. Journal of Applied Physics, 2010, 107, 094907.	2.5	30
62	Switchable metamaterial reflector/absorber for different polarized electromagnetic waves. Applied Physics Letters, 2010, 97, .	3.3	228
63	Slow wave propagation in a dielectric cylindrical waveguide with anisotropic metamaterial cladding. , 2009, , .		7
64	Schrödinger solitons and harmonic generation in short left-handed nonlinear transmission line metamaterial. , 2009, , .		2
65	Compensating loss with gain in slow-light propagation along slab waveguide with anisotropic metamaterial cladding. Optics Letters, 2009, 34, 3869.	3.3	14
66	Stopping light by an air waveguide with anisotropic metamaterial cladding. Optics Express, 2009, 17, 170.	3.4	73
67	Extraordinary transmission in planar waveguide loaded with anisotropic metamaterials. Journal of Applied Physics, 2009, 105, .	2.5	9
68	Light trapper by tapered air core in anisotropic metamaterial. , 2008, , .		0
69	Stopped electromagnetic wave in an air waveguide with anisotropic metamaterial cladding. , 2008, , .		0
70	Extraordinary transmission with evanescent wave enhancement in planar waveguide loaded with anisotropic metamaterials. , 2008, , .		1
71	Electromagnetic beam modulation and planar invisibility cloak through transformation optical structures. , 2008, , .		0
72	Transmission line realization of subwavelength resonator formed by a pair of conventional and LHM slabs. Journal of Zhejiang University: Science A, 2006, 7, 76-80.	2.4	2

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73	Anomalous reflection and refraction in anisotropic metamaterial realized by periodically loaded transmission line network. Journal of Applied Physics, 2006, 100, 114901.	2.5	11
74	Subwavelength Parallel Plate Resonator Filled with Bilayer of Anisotropic Metamaterials. , 2006, , .		0
75	Guided Modes in a Planar Air Waveguide with Anisotropic Metamaterial Cladding. , 2006, , .		0
76	Experimental Verification of Sub-diffraction Imaging by Compensated Bilayer of Transmission Line Metamaterials. , 2006, , .		0
77	Directive electromagnetic radiation of a line source scattered by a conducting cylinder coated with left-handed metamaterial. Microwave and Optical Technology Letters, 2005, 47, 274-279.	1.4	22