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	A Reconfigurable Active Huygens' Metalens. Advanced Materials, 2017, 29, 1606422.	21.0	470
2	Asymmetric electromagnetic wave transmission of linear polarization via polarization conversion through chiral metamaterial structures. Physical Review B, 2012, 85, .	3.2	284
3	Switchable metamaterial reflector/absorber for different polarized electromagnetic waves. Applied Physics Letters, 2010, 97, .	3.3	228
4	Directional Janus Metasurface. Advanced Materials, 2020, 32, e1906352.	21.0	193
5	Coding metasurface for broadband microwave scattering reduction with optical transparency. Optics Express, 2017, 25, 5571.	3.4	143
6	Dual-Helicity Decoupled Coding Metasurface for Independent Spin-to-Orbital Angular Momentum Conversion. Physical Review Applied, 2019, 11, .	3.8	137
7	Geometric phase coded metasurface: from polarization dependent directive electromagnetic wave scattering to diffusion-like scattering. Scientific Reports, 2016, 6, 35968.	3.3	113
8	Dynamic control of electromagnetic wave propagation with the equivalent principle inspired tunable metasurface. Scientific Reports, 2014, 4, .	3.3	93
9	Stopping light by an air waveguide with anisotropic metamaterial cladding. Optics Express, 2009, 17, 170.	3.4	73
10	Active Anisotropic Coding Metasurface with Independent Realâ€Time Reconfigurability for Dual Polarized Waves. Advanced Materials Technologies, 2020, 5, 1900930.	5.8	72
11	Dynamic control of asymmetric electromagnetic wave transmission by active chiral metamaterial. Scientific Reports, 2017, 7, 42802.	3.3	68
12	Broadband diffuse terahertz wave scattering by flexible metasurface with randomized phase distribution. Scientific Reports, 2016, 6, 26875.	3.3	57
13	An Intelligent Programmable Omniâ€Metasurface. Laser and Photonics Reviews, 2022, 16, .	8.7	56
14	Arbitrary and Dynamic PoincarÃ© Sphere Polarization Converter with a Timeâ€Varying Metasurface. Advanced Optical Materials, 2022, 10, .	7.3	52
15	Improving microwave antenna gain and bandwidth with phase compensation metasurface. AIP Advances, 2015, 5, .	1.3	51
16	Backward spoof surface wave in plasmonic metamaterial of ultrathin metallic structure. Scientific Reports, 2016, 6, 20448.	3.3	40
17	Angularâ€Adaptive Reconfigurable Spinâ€Locked Metasurface Retroreflector. Advanced Science, 2021, 8, e2100885.	11.2	35
18	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

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19	Independent Energy Allocation of Dualâ€Helical Multiâ€Beams with Spinâ€Selective Transmissive Metasurface. Advanced Optical Materials, 2020, 8, 2000342.	7.3	34
20	Kirigami Reconfigurable Gradient Metasurface. Advanced Functional Materials, 2022, 32, 2107699.	14.9	34
21	Active Cylindrical Metasurface With Spatial Reconfigurability for Tunable Backward Scattering Reduction. IEEE Transactions on Antennas and Propagation, 2021, 69, 3332-3340.	5.1	32
22	Dark SchrÃ¶dinger solitons and harmonic generation in left-handed nonlinear transmission line. Journal of Applied Physics, 2010, 107, 094907.	2.5	30
23	Full control of conical beam carrying orbital angular momentum by reflective metasurface. Optics Express, 2018, 26, 20990.	3.4	29
24	Direct routing of intensity-editable multi-beams by dual geometric phase interference in metasurface. Nanophotonics, 2020, 9, 2977-2987.	6.0	27
25	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
26	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
27	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
28	Terahertz beam switching by electrical control of graphene-enabled tunable metasurface. Scientific Reports, 2017, 7, 14147.	3.3	20
29	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
30	Compensating loss with gain in slow-light propagation along slab waveguide with anisotropic metamaterial cladding. Optics Letters, 2009, 34, 3869.	3.3	14
31	Independent Wavefront Tailoring in Full Polarization Channels by Helicityâ€Decoupled Metasurface. Annalen Der Physik, 2022, 534, 2100546.	2.4	14
32	Freeâ€Standing Singleâ€Layer Metasurface for Efficient and Broadband Tailoring of Terahertz Wavefront. Advanced Optical Materials, 2022, 10, .	7.3	13
33	Anomalous reflection and refraction in anisotropic metamaterial realized by periodically loaded transmission line network. Journal of Applied Physics, 2006, 100, 114901.	2.5	11
34	Polarization-dependent bi-functional metasurface for directive radiation and diffusion-like scattering. AIP Advances, 2017, 7, .	1.3	11
35	Wideband Dual-Feed Dual-Polarized Reflectarray Antenna Using Anisotropic Metasurface. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 129-133.	4.0	10
36	Extraordinary transmission in planar waveguide loaded with anisotropic metamaterials. Journal of Applied Physics, 2009, 105, .	2.5	9

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37	Spatiotemporal Metasurface to Control Electromagnetic Wave Scattering. Physical Review Applied, 2022, 17, .	3.8	9
38	Threeâ€dimensional lightweight metamaterial with ultraâ€wideband microwave absorption. Microwave and Optical Technology Letters, 2022, 64, 500-506.	1.4	8
39	Slow wave propagation in a dielectric cylindrical waveguide with anisotropic metamaterial cladding. , 2009, , .		7
40	Designing retrodirective reflector on a planar surface by transformation optics. AIP Advances, 2013, 3, .	1.3	7
41	Selective wave-transmitting electromagnetic absorber through composite metasurface. AIP Advances, 2017, 7, 115017.	1.3	7
42	Achieving Directive Radiation and Broadband Microwave Absorption by an Anisotropic Metasurface. IEEE Access, 2019, 7, 93919-93926.	4.2	6
43	Composite Strategy for Backward-Scattering Reduction of a Wavelength-Scale Cylindrical Object by an Ultrathin Metasurface. Physical Review Applied, 2019, 12, .	3.8	6
44	Dynamic control of electromagnetic wave polarization and phase through active metasurfaces. , 2014, , .		5
45	Independent dual-beam control based on programmable coding metasurface. Wuli Xuebao/Acta Physica Sinica, 2021, 70, 178102.	0.5	3
46	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
47	Schrödinger solitons and harmonic generation in short left-handed nonlinear transmission line metamaterial. , 2009, , .		2
48	Flexible low-scattering metasurface utilizing randomly distributed elements of variable sizes. , 2016, , .		2
49	Ultrathin L-band Microwave Tunable Metamaterial Absorber. , 2019, , .		2
50	Controlling Conical Beam Carrying Orbital Angular Momentum with Transmissive Metasurface. International Journal of Antennas and Propagation, 2021, 2021, 1-10.	1.2	2
51	Extraordinary transmission with evanescent wave enhancement in planar waveguide loaded with anisotropic metamaterials. , 2008, , .		1
52	Manipulating electromagnetic radiation through metamaterial structures designed by coordinate transformation. , 2010, , .		1
53	Manipulating electromagnetic wave propagation, absorption and polarization with metamaterials. , 2012, , .		1
54	Controllable metamaterial absorbers. , 2013, , .		1

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55	Tunable, switchable, and one-way electromagnetic wave absorbers based on metamaterial structures. , 2014, , .		1
56	Tunable ultra-thin P-band absorber based on permeability-near-zero metamaterial. , 2017, , .		1
57	Tunable Low-Frequency Broadband Dual-Polarized Rasorber. , 2018, , .		1
58	Broadening the Bandwidth of the Electromagnetic Metamaterial Absorber. , 2018, , .		1
59	Design of a Frequency-Tunable Frequency-Selective Surface with High-Selectivity. , 2020, , .		1
60	Subwavelength Parallel Plate Resonator Filled with Bilayer of Anisotropic Metamaterials. , 2006, , .		0
61	Guided Modes in a Planar Air Waveguide with Anisotropic Metamaterial Cladding. , 2006, , .		0
62	Experimental Verification of Sub-diffraction Imaging by Compensated Bilayer of Transmission Line Metamaterials. , 2006, , .		0
63	Light trapper by tapered air core in anisotropic metamaterial. , 2008, , .		0
64	Stopped electromagnetic wave in an air waveguide with anisotropic metamaterial cladding. , 2008, , .		0
65	Electromagnetic beam modulation and planar invisibility cloak through transformation optical structures. , 2008, , .		0
66	Designing planar electromagnetic wave reflectors through transformation optics. , 2012, , .		0
67	Design and realization of planar reflectors through transformation optics. , 2013, , .		0
68	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
69	Nearly octave bandwidth microwave absorber with resistance loaded metamaterial. , 2015, , .		0
70	Designing metasurface through surface impedance mapping and equivalent circuit model. , 2017, , .		0
71	Geometric phase coded microwave metasurface for ultra-wideband radar cross section reduction. , 2017, , .		0
72	Dual-polarization absorptive/transmissive frequency-selective surface utilizing composite metamaterial. , 2017, , .		0

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73	Direct-modulation Wireless Communication with Real-time Programmable Metasurface. , 2021, , .		0
74	Multi-functional metasurfaces and their applications. , 2021, , .		0
75	Flexible Multiplexing of High-order PoincarÃ© Sphere Beams with Reflective Metasurface. , 2021, , .		0
76	An Active Frequency Reconfigurable Epsilon-near-zero Antenna. , 2021, , .		0
77	Kirigami Reconfigurable Gradient Metasurface (Adv. Funct. Mater. 5/2022). Advanced Functional Materials, 2022, 32, .	14.9	0