

Xueqian Zhang

List of Publications by Year in descending order

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papers

6,026
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87723

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74018

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81
all docs

81
docs citations

81
times ranked

3666
citing authors

#	ARTICLE	IF	CITATIONS
1	Active control of electromagnetically induced transparency analogue in terahertz metamaterials. Nature Communications, 2012, 3, 1151.	5.8	1,008
2	Broadband Metasurfaces with Simultaneous Control of Phase and Amplitude. Advanced Materials, 2014, 26, 5031-5036.	11.1	612
3	Broadband Terahertz Wave Deflection Based on C-shape Complex Metamaterials with Phase Discontinuities. Advanced Materials, 2013, 25, 4567-4572.	11.1	353
4	A perfect metamaterial polarization rotator. Applied Physics Letters, 2013, 103, .	1.5	318
5	Reflective chiral meta-holography: multiplexing holograms for circularly polarized waves. Light: Science and Applications, 2018, 7, 25.	7.7	212
6	All-optical active THz metasurfaces for ultrafast polarization switching and dynamic beam splitting. Light: Science and Applications, 2018, 7, 28.	7.7	202
7	Manifestation of P - T Symmetry Breaking in Polarization Space with Terahertz Metasurfaces. Physical Review Letters, 2014, 113, 093901.	2.9	191
8	A Broadband Metasurface-Based Terahertz Flat-Lens Array. Advanced Optical Materials, 2015, 3, 779-785.	3.6	175
9	Efficient flat metasurface lens for terahertz imaging. Optics Express, 2014, 22, 25931.	1.7	161
10	Broadband metasurface holograms: toward complete phase and amplitude engineering. Scientific Reports, 2016, 6, 32867.	1.6	160
11	Thermally Dependent Dynamic Meta-Holography Using a Vanadium Dioxide Integrated Metasurface. Advanced Optical Materials, 2019, 7, 1900175.	3.6	138
12	High-Efficiency Dielectric Metasurfaces for Polarization-Dependent Terahertz Wavefront Manipulation. Advanced Optical Materials, 2018, 6, 1700773.	3.6	137
13	Terahertz surface plasmonic waves: a review. Advanced Photonics, 2020, 2, 1.	6.2	118
14	Monolayer graphene sensing enabled by the strong Fano-resonant metasurface. Nanoscale, 2016, 8, 17278-17284.	2.8	107
15	Direct polarization measurement using a multiplexed Pancharatnam-Berry metahologram. Optica, 2019, 6, 1190.	4.8	100
16	Generation of terahertz vector beams using dielectric metasurfaces via spin-decoupled phase control. Nanophotonics, 2020, 9, 3393-3402.	2.9	88
17	Terahertz spoof surface-plasmon-polariton subwavelength waveguide. Photonics Research, 2018, 6, 18.	3.4	79
18	Electrically Tunable Perfect Terahertz Absorber Based on a Graphene Salisbury Screen Hybrid Metasurface. Advanced Optical Materials, 2020, 8, 1900660.	3.6	79

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19	Electromagnetically induced absorption in a three-resonator metasurface system. <i>Scientific Reports</i> , 2015, 5, 10737.	1.6	78
20	Polarization-independent all-silicon dielectric metasurfaces in the terahertz regime. <i>Photonics Research</i> , 2018, 6, 24.	3.4	77
21	Spin-Decoupled Multifunctional Metasurface for Asymmetric Polarization Generation. <i>ACS Photonics</i> , 2019, 6, 2933-2941.	3.2	74
22	Excite Spoof Surface Plasmons with Tailored Wavefronts Using High-Efficiency Terahertz Metasurfaces. <i>Advanced Science</i> , 2020, 7, 2000982.	5.6	67
23	Bilayer-fish-scale ultrabroad terahertz bandpass filter. <i>Optics Letters</i> , 2012, 37, 906.	1.7	65
24	Polarization-Independent Plasmon-Induced Transparency in a Fourfold Symmetric Terahertz Metamaterial. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013, 19, 8400707-8400707.	1.9	58
25	All-Dielectric Meta-Holograms with Holographic Images Transforming Longitudinally. <i>ACS Photonics</i> , 2018, 5, 599-606.	3.2	58
26	Temperature-Controlled Optical Activity and Negative Refractive Index. <i>Advanced Functional Materials</i> , 2021, 31, 2010249.	7.8	58
27	Asymmetric excitation of surface plasmons by dark mode coupling. <i>Science Advances</i> , 2016, 2, e1501142.	4.7	57
28	Polarization-controlled surface plasmon holography. <i>Laser and Photonics Reviews</i> , 2017, 11, 1600212.	4.4	55
29	Anomalous Surface Wave Launching by Handedness Phase Control. <i>Advanced Materials</i> , 2015, 27, 7123-7129.	11.1	54
30	Polarization and Frequency Multiplexed Terahertz Meta-Holography. <i>Advanced Optical Materials</i> , 2017, 5, 1700277.	3.6	54
31	Dielectric Metasurfaces for Complete Control of Phase, Amplitude, and Polarization. <i>Advanced Optical Materials</i> , 2022, 10, 2101223.	3.6	53
32	Integrated Terahertz Generator-Manipulators Using Epsilon-near-Zero-Hybrid Nonlinear Metasurfaces. <i>Nano Letters</i> , 2021, 21, 7699-7707.	4.5	52
33	Broadband terahertz wave generation from an epsilon-near-zero material. <i>Light: Science and Applications</i> , 2021, 10, 11.	7.7	47
34	Switchable Chiral Mirrors. <i>Advanced Optical Materials</i> , 2020, 8, 2000247.	3.6	45
35	Broadband terahertz rotator with an all-dielectric metasurface. <i>Photonics Research</i> , 2018, 6, 1056.	3.4	45
36	Active Control of Asymmetric Fano Resonances with Graphene-Silicon-Integrated Terahertz Metamaterials. <i>Advanced Materials Technologies</i> , 2020, 5, 1900840.	3.0	44

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37	Coherent Control of Optical Spin-to-Orbital Angular Momentum Conversion in Metasurface. <i>Advanced Materials</i> , 2017, 29, 1604252.	11.1	40
38	Electromagnetically induced transparency in terahertz metasurface composed of meanderline and U-shaped resonators. <i>Optics Express</i> , 2020, 28, 8792.	1.7	40
39	Pancharatnam-Berry Phase Induced Spin-Selective Transmission in Herringbone Dielectric Metamaterials. <i>Advanced Materials</i> , 2016, 28, 9567-9572.	11.1	39
40	Tailoring the plasmon-induced transparency resonances in terahertz metamaterials. <i>Optics Express</i> , 2017, 25, 19844.	1.7	39
41	Mapping the near-field propagation of surface plasmons on terahertz metasurfaces. <i>Applied Physics Letters</i> , 2015, 107, 021105.	1.5	33
42	Polarization-controlled asymmetric excitation of surface plasmons. <i>Optica</i> , 2017, 4, 1044.	4.8	33
43	Nonlinear THz-Nano Metasurfaces. <i>Advanced Functional Materials</i> , 2021, 31, 2100463.	7.8	31
44	BST-silicon hybrid terahertz meta-modulator for dual-stimuli-triggered opposite transmission amplitude control. <i>Nanophotonics</i> , 2022, 11, 2075-2083.	2.9	30
45	Coherent Perfect Diffraction in Metagratings. <i>Advanced Materials</i> , 2020, 32, e2002341.	11.1	29
46	Broadband Terahertz Wave Deflection Based on C-shape Complex Metamaterials with Phase Discontinuities (<i>Adv. Mater.</i> 33/2013). <i>Advanced Materials</i> , 2013, 25, 4566-4566.	11.1	28
47	A Metamaterial-Based Terahertz Low-Pass Filter With Low Insertion Loss and Sharp Rejection. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013, 3, 832-837.	2.0	28
48	Efficient Metacoupler for Complex Surface Plasmon Launching. <i>Advanced Optical Materials</i> , 2018, 6, 1701117.	3.6	25
49	Exceptional point in a metal-graphene hybrid metasurface with tunable asymmetric loss. <i>Optics Express</i> , 2020, 28, 20083.	1.7	25
50	Aperiodic-metamaterial-based absorber. <i>APL Materials</i> , 2017, 5, .	2.2	23
51	Tailoring mode interference in plasmon-induced transparency metamaterials. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 174005.	1.3	22
52	High-performance and compact broadband terahertz plasmonic waveguide intersection. <i>Nanophotonics</i> , 2019, 8, 1811-1819.	2.9	22
53	Terahertz electric field modulated mode coupling in graphene-metal hybrid metamaterials. <i>Optics Express</i> , 2019, 27, 2317.	1.7	22
54	Coupling Plasmonic System for Efficient Wavefront Control. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5844-5852.	4.0	22

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55	Superconductive PT-symmetry phase transition in metasurfaces. Applied Physics Letters, 2017, 110, .	1.5	19
56	An approach for mechanically tunable, dynamic terahertz bandstop filters. Applied Physics A: Materials Science and Processing, 2012, 107, 285-291.	1.1	17
57	Plasmon-induced transparency in terahertz metamaterials. Science China Information Sciences, 2013, 56, 1-18.	2.7	17
58	Electromagnetically Induced Transparency-Like Approach Based on Terahertz Metamaterials for Ultrasensitive Refractive Index Sensors. IEEE Sensors Journal, 2022, 22, 2110-2118.	2.4	16
59	Gradient Index Devices for Terahertz Spoof Surface Plasmon Polaritons. ACS Photonics, 2020, 7, 3305-3312.	3.2	15
60	Interferometric Control of Dual-Band Terahertz Perfect Absorption Using a Designed Metasurface. Physical Review Applied, 2018, 9, .	1.5	14
61	Terahertz Spoof Surface Plasmonic Logic Gates. IScience, 2020, 23, 101685.	1.9	14
62	Anomalous Wave Propagation in Topological Transition Metasurfaces. Advanced Optical Materials, 2019, 7, 1801483.	3.6	13
63	Coherent Chiralâ€Selective Absorption and Wavefront Manipulation in Singleâ€Layer Metasurfaces. Advanced Optical Materials, 2021, 9, 2001620.	3.6	13
64	Tailorable Polarizationâ€Dependent Directional Coupling of Surface Plasmons. Advanced Functional Materials, 2022, 32, .	7.8	13
65	Couplingâ€Mediated Selective Spinâ€toâ€Plasmonicâ€Orbital Angular Momentum Conversion. Advanced Optical Materials, 2019, 7, 1900713.	3.6	11
66	Active Dielectric Metasurfaces for Switchable Terahertz Beam Steering and Focusing. IEEE Photonics Journal, 2021, 13, 1-11.	1.0	11
67	Water Dynamics in the Hydration Shell of Amphiphilic Macromolecules. Journal of Physical Chemistry B, 2019, 123, 2971-2977.	1.2	10
68	Direct emission of broadband terahertz cylindrical vector Bessel beam. Applied Physics Letters, 2021, 119, .	1.5	6
69	Tailoring Terahertz Propagation by Phase and Amplitude Control in Metasurfaces. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 1034-1046.	1.2	5
70	Terahertz Plasmon-Induced Transparency Effect in Parallel Plate Waveguide. IEEE Access, 2021, 9, 16279-16285.	2.6	5
71	All dielectric metasurfaces for spin-dependent terahertz wavefront control. Photonics Research, 2022, 10, 1695.	3.4	4
72	Nonlinear THzâ€Nano Metasurfaces: Nonlinear THzâ€Nano Metasurfaces (Adv. Funct. Mater. 24/2021). Advanced Functional Materials, 2021, 31, 2170170.	7.8	3

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73	Fano resonance in terahertz parallel plate waveguide. Infrared Physics and Technology, 2021, 118, 103875.	1.3	3
74	Terahertz bound state in the continuum in dielectric membrane metasurfaces. New Journal of Physics, 2022, 24, 053010.	1.2	3
75	Surface Plasmon Mediated Controllable Spin-Resolved Transmission in Meta-Hole Structures. Annalen Der Physik, 2018, 530, 1700364.	0.9	2
76	Observation of electromagnetically induced absorption in a three-resonator system. , 2014, , .		1
77	From Terahertz Surface Waves to Spoof Surface Plasmon Polaritons. , 2018, , .		1
78	Broadband and high-efficient terahertz wave deflection based on C-shaped complex metamaterials with phase discontinuities. , 2013, , .		0
79	Active graphene-silicon hybrid metamaterial devices. , 2014, , .		0
80	Active terahertz modulations based on graphene-silicon hybrid structures. , 2015, , .		0
81	Multifunctional dielectric terahertz metasurfaces via spin-decoupled phase control. , 2021, , .		0