

# Xueqian Zhang

## List of Publications by Citations

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75  
papers

3,884  
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30  
h-index

62  
g-index

81  
ext. papers

4,998  
ext. citations

8.4  
avg, IF

5.26  
L-index

#	Paper	IF	Citations
75	Active control of electromagnetically induced transparency analogue in terahertz metamaterials. <i>Nature Communications</i> , <b>2012</b> , 3, 1151	17.4	783
74	Broadband metasurfaces with simultaneous control of phase and amplitude. <i>Advanced Materials</i> , <b>2014</b> , 26, 5031-6	24	422
73	Broadband terahertz wave deflection based on C-shape complex metamaterials with phase discontinuities. <i>Advanced Materials</i> , <b>2013</b> , 25, 4567-72	24	258
72	A perfect metamaterial polarization rotator. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 171107	3.4	243
71	A Broadband Metasurface-Based Terahertz Flat-Lens Array. <i>Advanced Optical Materials</i> , <b>2015</b> , 3, 779-785	8.1	127
70	Manifestation of PT symmetry breaking in polarization space with terahertz metasurfaces. <i>Physical Review Letters</i> , <b>2014</b> , 113, 093901	7.4	125
69	Reflective chiral meta-holography: multiplexing holograms for circularly polarized waves. <i>Light: Science and Applications</i> , <b>2018</b> , 7, 25	16.7	123
68	All-optical active THz metasurfaces for ultrafast polarization switching and dynamic beam splitting. <i>Light: Science and Applications</i> , <b>2018</b> , 7, 28	16.7	120
67	Efficient flat metasurface lens for terahertz imaging. <i>Optics Express</i> , <b>2014</b> , 22, 25931-9	3.3	117
66	Broadband metasurface holograms: toward complete phase and amplitude engineering. <i>Scientific Reports</i> , <b>2016</b> , 6, 32867	4.9	103
65	High-Efficiency Dielectric Metasurfaces for Polarization-Dependent Terahertz Wavefront Manipulation. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1700773	8.1	92
64	Monolayer graphene sensing enabled by the strong Fano-resonant metasurface. <i>Nanoscale</i> , <b>2016</b> , 8, 17278-17284	7.7	82
63	Thermally Dependent Dynamic Meta-Holography Using a Vanadium Dioxide Integrated Metasurface. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900175	8.1	78
62	Electromagnetically induced absorption in a three-resonator metasurface system. <i>Scientific Reports</i> , <b>2015</b> , 5, 10737	4.9	55
61	Terahertz surface plasmonic waves: a review. <i>Advanced Photonics</i> , <b>2020</b> , 2, 1	8.1	55
60	Bilayer-fish-scale ultrabroad terahertz bandpass filter. <i>Optics Letters</i> , <b>2012</b> , 37, 906-8	3	52
59	Terahertz spoof surface-plasmon-polariton subwavelength waveguide. <i>Photonics Research</i> , <b>2018</b> , 6, 18	6	50

58	Direct polarization measurement using a multiplexed Pancharatnam-Berry metahologram. <i>Optica</i> , <b>2019</b> , 6, 1190	8.6	50
57	Polarization-independent all-silicon dielectric metasurfaces in the terahertz regime. <i>Photonics Research</i> , <b>2018</b> , 6, 24	6	46
56	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2013</b> , 19, 8400707-8400707	3.8	44
55	Electrically Tunable Perfect Terahertz Absorber Based on a Graphene Salisbury Screen Hybrid Metasurface. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 1900660	8.1	42
54	Asymmetric excitation of surface plasmons by dark mode coupling. <i>Science Advances</i> , <b>2016</b> , 2, e1501142	14.3	39
53	All-Dielectric Meta-Holograms with Holographic Images Transforming Longitudinally. <i>ACS Photonics</i> , <b>2018</b> , 5, 599-606	6.3	39
52	Anomalous Surface Wave Launching by Handedness Phase Control. <i>Advanced Materials</i> , <b>2015</b> , 27, 7123-924	9.4	38
51	Polarization-controlled surface plasmon holography. <i>Laser and Photonics Reviews</i> , <b>2017</b> , 11, 1600212	8.3	36
50	Spin-Decoupled Multifunctional Metasurface for Asymmetric Polarization Generation. <i>ACS Photonics</i> , <b>2019</b> , 6, 2933-2941	6.3	35
49	Generation of terahertz vector beams using dielectric metasurfaces via spin-decoupled phase control. <i>Nanophotonics</i> , <b>2020</b> , 9, 3393-3402	6.3	34
48	Tailoring the plasmon-induced transparency resonances in terahertz metamaterials. <i>Optics Express</i> , <b>2017</b> , 25, 19844-19855	3.3	33
47	Polarization and Frequency Multiplexed Terahertz Meta-Holography. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1700277	8.1	33
46	Broadband terahertz rotator with an all-dielectric metasurface. <i>Photonics Research</i> , <b>2018</b> , 6, 1056	6	32
45	Pancharatnam-Berry Phase Induced Spin-Selective Transmission in Herringbone Dielectric Metamaterials. <i>Advanced Materials</i> , <b>2016</b> , 28, 9567-9572	24	30
44	Excite Spoof Surface Plasmons with Tailored Wavefronts Using High-Efficiency Terahertz Metasurfaces. <i>Advanced Science</i> , <b>2020</b> , 7, 2000982	13.6	29
43	Coherent Control of Optical Spin-to-Orbital Angular Momentum Conversion in Metasurface. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604252	24	28
42	Broadband Terahertz Wave Deflection Based on C-shape Complex Metamaterials with Phase Discontinuities (Adv. Mater. 33/2013). <i>Advanced Materials</i> , <b>2013</b> , 25, 4566-4566	24	25
41	A Metamaterial-Based Terahertz Low-Pass Filter With Low Insertion Loss and Sharp Rejection. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2013</b> , 3, 832-837	3.4	24

40	Mapping the near-field propagation of surface plasmons on terahertz metasurfaces. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 021105	3.4	21
39	Polarization-controlled asymmetric excitation of surface plasmons. <i>Optica</i> , <b>2017</b> , 4, 1044	8.6	21
38	Temperature-Controlled Optical Activity and Negative Refractive Index. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010249	15.6	21
37	Switchable Chiral Mirrors. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2000247	8.1	19
36	Active Control of Asymmetric Fano Resonances with Graphene/Silicon-Integrated Terahertz Metamaterials. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 1900840	6.8	19
35	Electromagnetically induced transparency in terahertz metasurface composed of meanderline and U-shaped resonators. <i>Optics Express</i> , <b>2020</b> , 28, 8792-8801	3.3	17
34	Tailoring mode interference in plasmon-induced transparency metamaterials. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 174005	3	16
33	High-performance and compact broadband terahertz plasmonic waveguide intersection. <i>Nanophotonics</i> , <b>2019</b> , 8, 1811-1819	6.3	15
32	Terahertz electric field modulated mode coupling in graphene-metal hybrid metamaterials. <i>Optics Express</i> , <b>2019</b> , 27, 2317-2326	3.3	15
31	Efficient Metacoupler for Complex Surface Plasmon Launching. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1708117	11.7	14
30	Broadband terahertz wave generation from an epsilon-near-zero material. <i>Light: Science and Applications</i> , <b>2021</b> , 10, 11	16.7	14
29	Nonlinear THz-Nano Metasurfaces. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2100463	15.6	13
28	Coherent Perfect Diffraction in Metagratings. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002341	24	12
27	Aperiodic-metamaterial-based absorber. <i>APL Materials</i> , <b>2017</b> , 5, 096107	5.7	11
26	Anomalous Wave Propagation in Topological Transition Metasurfaces. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1801483	8.1	10
25	An approach for mechanically tunable, dynamic terahertz bandstop filters. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 107, 285-291	2.6	10
24	Interferometric Control of Dual-Band Terahertz Perfect Absorption Using a Designed Metasurface. <i>Physical Review Applied</i> , <b>2018</b> , 9,	4.3	10
23	Superconductive PT-symmetry phase transition in metasurfaces. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 021104	9.4	9

22	Dielectric Metasurfaces for Complete Control of Phase, Amplitude, and Polarization. <i>Advanced Optical Materials</i> , 2021, 13, 2101223	8.1	9
21	Coupling Plasmonic System for Efficient Wavefront Control. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 5844-5852	9.5	9
20	Integrated Terahertz Generator-Manipulators Using Epsilon-near-Zero-Hybrid Nonlinear Metasurfaces. <i>Nano Letters</i> , 2021, 21, 7699-7707	11.5	9
19	Plasmon-induced transparency in terahertz metamaterials. <i>Science China Information Sciences</i> , 2013, 56, 1-18	3.4	8
18	Exceptional point in a metal-graphene hybrid metasurface with tunable asymmetric loss. <i>Optics Express</i> , 2020, 28, 20083-20094	3.3	7
17	Coherent Chiral-Selective Absorption and Wavefront Manipulation in Single-Layer Metasurfaces. <i>Advanced Optical Materials</i> , 2021, 9, 2001620	8.1	7
16	Active Dielectric Metasurfaces for Switchable Terahertz Beam Steering and Focusing. <i>IEEE Photonics Journal</i> , 2021, 13, 1-11	1.8	7
15	BST-silicon hybrid terahertz meta-modulator for dual-stimuli-triggered opposite transmission amplitude control. <i>Nanophotonics</i> , 2022,	6.3	7
14	Coupling-Mediated Selective Spin-to-Plasmonic-Orbital Angular Momentum Conversion. <i>Advanced Optical Materials</i> , 2019, 7, 1900713	8.1	6
13	Water Dynamics in the Hydration Shell of Amphiphilic Macromolecules. <i>Journal of Physical Chemistry B</i> , 2019, 123, 2971-2977	3.4	5
12	Terahertz Spoof Surface Plasmonic Logic Gates. <i>IScience</i> , 2020, 23, 101685	6.1	5
11	Gradient Index Devices for Terahertz Spoof Surface Plasmon Polaritons. <i>ACS Photonics</i> , 2020, 7, 3305-3312	3.3	4
10	Terahertz Plasmon-Induced Transparency Effect in Parallel Plate Waveguide. <i>IEEE Access</i> , 2021, 9, 162793-162853	3.1	3
9	Tailoring Terahertz Propagation by Phase and Amplitude Control in Metasurfaces. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2017, 38, 1034-1046	2.2	2
8	Nonlinear THz-Nano Metasurfaces: Nonlinear THz-Nano Metasurfaces (Adv. Funct. Mater. 24/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170170	15.6	2
7	Surface Plasmon Mediated Controllable Spin-Resolved Transmission in Meta-Hole Structures. <i>Annalen Der Physik</i> , 2018, 530, 1700364	2.6	1
6	Observation of electromagnetically induced absorption in a three-resonator system 2014,		1
5	Electromagnetically Induced Transparency-Like Approach Based on Terahertz Metamaterials for Ultrasensitive Refractive Index Sensors. <i>IEEE Sensors Journal</i> , 2022, 22, 2110-2118	4	1

4	Direct emission of broadband terahertz cylindrical vector Bessel beam. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 221110	3.4	1
3	From Terahertz Surface Waves to Spoof Surface Plasmon Polaritons <b>2018</b> ,		1
2	Tailorable Polarization-Dependent Directional Coupling of Surface Plasmons. <i>Advanced Functional Materials</i> , 2111000	15.6	0
1	Fano resonance in terahertz parallel plate waveguide. <i>Infrared Physics and Technology</i> , <b>2021</b> , 118, 103875.7		0