

Bin Zheng

List of Publications by Citations

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Version: 2024-04-26

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64
papers

1,490
citations

19
h-index

37
g-index

76
ext. papers

1,963
ext. citations

7.1
avg, IF

4.8
L-index

#	Paper	IF	Citations
64	Full-Polarization 3D Metasurface Cloak with Preserved Amplitude and Phase. <i>Advanced Materials</i> , 2016 , 28, 6866-71	24	186
63	Origami-Based Reconfigurable Metamaterials for Tunable Chirality. <i>Advanced Materials</i> , 2017 , 29, 1700412	17.4	129
62	Deep-learning-enabled self-adaptive microwave cloak without human intervention. <i>Nature Photonics</i> , 2020 , 14, 383-390	33.9	113
61	Ray-optics cloaking devices for large objects in incoherent natural light. <i>Nature Communications</i> , 2013 , 4, 2652	17.4	112
60	Broadband polygonal invisibility cloak for visible light. <i>Scientific Reports</i> , 2012 , 2, 255	4.9	81
59	Hyperbolic spoof plasmonic metasurfaces. <i>NPG Asia Materials</i> , 2017 , 9, e428-e428	10.3	77
58	Gradient Chiral Metamirrors for Spin-Selective Anomalous Reflection. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1700115	8.3	61
57	Chiral metamirrors for broadband spin-selective absorption. <i>Applied Physics Letters</i> , 2017 , 110, 231103	3.4	53
56	Concealing arbitrary objects remotely with multi-folded transformation optics. <i>Light: Science and Applications</i> , 2016 , 5, e16177	16.7	44
55	Kirigami metamaterials for reconfigurable toroidal circular dichroism. <i>NPG Asia Materials</i> , 2018 , 10, 888-898	10.3	39
54	Broadband compact acoustic absorber with high-efficiency ventilation performance. <i>Applied Physics Letters</i> , 2018 , 113, 103501	3.4	35
53	Transformation Optics: From Classic Theory and Applications to its New Branches. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1700034	8.3	34
52	Multi-frequency metasurface carpet cloaks. <i>Optics Express</i> , 2018 , 26, 14123-14131	3.3	33
51	Ultrawideband chromatic aberration-free meta-mirrors. <i>Advanced Photonics</i> , 2020 , 3,	8.1	29
50	Bifunctional acoustic metamaterial lens designed with coordinate transformation. <i>Applied Physics Letters</i> , 2017 , 110, 113503	3.4	27
49	Origami Metawall: Mechanically Controlled Absorption and Deflection of Light. <i>Advanced Science</i> , 2019 , 6, 1901434	13.6	22
48	Toroidal Localized Spoof Plasmons on Compact Metadisks. <i>Advanced Science</i> , 2018 , 5, 1700487	13.6	21

47	3D Visible-Light Invisibility Cloak. <i>Advanced Science</i> , 2018 , 5, 1800056	13.6	20
46	A broadband polygonal cloak for acoustic wave designed with linear coordinate transformation. <i>Journal of the Acoustical Society of America</i> , 2016 , 140, 95	2.2	20
45	Design of Ultracompact Graphene-Based Superscatterers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017 , 23, 130-137	3.8	19
44	Large-Scale Far-Infrared Invisibility Cloak Hiding Object from Thermal Detection. <i>Advanced Optical Materials</i> , 2015 , 3, 1738-1742	8.1	19
43	Realizing transmitted metasurface cloak by a tandem neural network. <i>Photonics Research</i> , 2021 , 9, B2296		18
42	Frequency-Controlled Focusing Using Achromatic Metasurface. <i>Advanced Optical Materials</i> , 2021 , 9, 2001311	13.1	17
41	Magnetic Hyperbolic Metasurface: Concept, Design, and Applications. <i>Advanced Science</i> , 2018 , 5, 1801495	5.6	17
40	Bistable scattering in graphene-coated dielectric nanowires. <i>Nanoscale</i> , 2017 , 9, 8449-8457	7.7	16
39	Angular-Adaptive Spin-Locked Retroreflector Based on Reconfigurable Magnetic Metagrating. <i>Advanced Optical Materials</i> , 2019 , 7, 1900151	8.1	16
38	Diodelike Spin-Orbit Interactions of Light in Chiral Metasurfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 7148-7155	4.9	16
37	Panoramic lens designed with transformation optics. <i>Scientific Reports</i> , 2017 , 7, 40083	4.9	15
36	Spiral Field Generation in Smith-Purcell Radiation by Helical Metagratings. <i>Research</i> , 2019 , 2019, 3806132	3.8	14
35	Inverse design of acoustic metamaterials based on machine learning using a Gaussian Bayesian model. <i>Journal of Applied Physics</i> , 2020 , 128, 134902	2.5	13
34	Direct current remote cloak for arbitrary objects. <i>Light: Science and Applications</i> , 2019 , 8, 30	16.7	11
33	Manipulating surface plasmon polaritons with infinitely anisotropic metamaterials. <i>Optics Express</i> , 2017 , 25, 10515-10526	3.3	11
32	Transient response of a signal through a dispersive invisibility cloak. <i>Optics Letters</i> , 2016 , 41, 4911-4914	3	11
31	Machine learning-enabled metasurface for direction of arrival estimation. <i>Nanophotonics</i> , 2022 ,	6.3	10
30	Non-contact radio frequency shielding and wave guiding by multi-folded transformation optics method. <i>Scientific Reports</i> , 2016 , 6, 36846	4.9	9

29	Broadband subwavelength imaging using non-resonant metamaterials. <i>Applied Physics Letters</i> , 2014 , 104, 073502	3.4	9
28	Dispersion engineering of hyperbolic plasmons in bilayer 2D materials. <i>Optics Letters</i> , 2018 , 43, 5737-5740	3.0	9
27	Experimental Realization of an Extreme-Parameter Omnidirectional Cloak. <i>Research</i> , 2019 , 2019, 82826418	4.18	8
26	Non-contact method to freely control the radiation patterns of antenna with multi-folded transformation optics. <i>Scientific Reports</i> , 2017 , 7, 13171	4.9	7
25	Ultra-broadband carpet cloak for transverse-electric polarization. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 044006	1.7	7
24	Structure-Induced Hyperbolic Dispersion in Waveguides. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 5463-5468	4.9	6
23	Airy beams on two dimensional materials. <i>Optics Communications</i> , 2018 , 414, 40-44	2	6
22	Free-space carpet cloak using transformation optics and graphene. <i>Optics Letters</i> , 2014 , 39, 6739-42	3	6
21	Metasurface-based focus-tunable mirror. <i>Optics Express</i> , 2019 , 27, 30332-30339	3.3	6
20	Dynamic recognition and mirage using neuro-metamaterials.. <i>Nature Communications</i> , 2022 , 13, 2694	17.4	6
19	Demonstration of Spider-Eyes-Like Intelligent Antennas for Dynamically Perceiving Incoming Waves. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2100066	6	5
18	Spoof Surface Plasmonic Graphene for Controlling the Transports and Emissions of Electromagnetic Waves. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019 , 67, 50-56	4.1	5
17	Observing the transient buildup of a superscatterer in the time domain. <i>Optics Express</i> , 2017 , 25, 4967-4974	3.4	4
16	In Situ Customized Illusion Enabled by Global Metasurface Reconstruction. <i>Advanced Functional Materials</i> , 2109331	15.6	4
15	Design of a reconfigurable broadband greyscale multiplexed metasurface hologram. <i>Applied Optics</i> , 2020 , 59, 3660-3665	1.7	4
14	Ultrathin Acoustic Metasurface Holograms with Arbitrary Phase Control. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3585	2.6	3
13	Launching phase-controlled surface plasmons on Babinet metasurfaces. <i>Optics Letters</i> , 2018 , 43, 3253-3256	3.56	3
12	A SIMPLE UNIDIRECTIONAL OPTICAL INVISIBILITY CLOAK MADE OF WATER. <i>Progress in Electromagnetics Research</i> , 2014 , 146, 1-5	3.8	3

11	Analog of giant magnetoimpedance in magnetized near-zero plasma. <i>Optics Letters</i> , 2019 , 44, 991-994	3	3
10	Machine-Learning-Assisted Acoustic Consecutive Fano Resonances: Application to a Tunable Broadband Low-Frequency Metasilencer. <i>Physical Review Applied</i> , 2021 , 16,	4.3	3
9	Broadband Spin-Locked Metasurface Retroreflector.. <i>Advanced Science</i> , 2022 , e2201397	13.6	3
8	A bi-functional illusion device based on transformation optics. <i>Journal of Optics (United Kingdom)</i> , 2019 , 21, 035104	1.7	2
7	Progress of novel electromagnetic cloaking research. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020 , 69, 154104	0.6	2
6	Spiral Field Generation in Smith-Purcell Radiation by Helical Metagratings. <i>Research</i> , 2019 , 2019, 1-8	7.8	2
5	Achieving panorama using singular metamaterials. <i>Applied Physics Letters</i> , 2019 , 114, 051904	3.4	1
4	Machine learning-assisted low-frequency and broadband sound absorber with coherently coupled weak resonances. <i>Applied Physics Letters</i> , 2022 , 120, 033501	3.4	1
3	Experimental study on invisibility cloaks 2016 ,		1
2	Deep Neural Network with Data Cropping Algorithm for Absorptive Frequency-Selective Transmission Metasurface. <i>Advanced Optical Materials</i> , 2200178	8.1	1
1	Homogeneous material based acoustic concentrators and rotators with linear coordinate transformation. <i>Scientific Reports</i> , 2021 , 11, 11531	4.9	0