

Bin Zheng

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7006634/bin-zheng-publications-by-year.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
63	Machine learning-enabled metasurface for direction of arrival estimation. <i>Nanophotonics</i> , 2022 ,	6.3	10
62	Broadband Spin-Locked Metasurface Retroreflector.. <i>Advanced Science</i> , 2022 , e2201397	13.6	3
61	Dynamic recognition and mirage using neuro-metamaterials.. <i>Nature Communications</i> , 2022 , 13, 2694	17.4	6
60	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
59	Realizing transmitted metasurface cloak by a tandem neural network. <i>Photonics Research</i> , 2021 , 9, B2296		18
58	Homogeneous material based acoustic concentrators and rotators with linear coordinate transformation. <i>Scientific Reports</i> , 2021 , 11, 11531	4.9	0
57	Demonstration of Spider-Eyes-Like Intelligent Antennas for Dynamically Perceiving Incoming Waves. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2100066	6	5
56	Frequency-Controlled Focusing Using Achromatic Metasurface. <i>Advanced Optical Materials</i> , 2021 , 9, 2001311	13.1	17
55	Deep-learning-enabled self-adaptive microwave cloak without human intervention. <i>Nature Photonics</i> , 2020 , 14, 383-390	33.9	113
54	Ultrawideband chromatic aberration-free meta-mirrors. <i>Advanced Photonics</i> , 2020 , 3,	8.1	29
53	Design of a reconfigurable broadband greyscale multiplexed metasurface hologram. <i>Applied Optics</i> , 2020 , 59, 3660-3665	1.7	4
52	Progress of novel electromagnetic cloaking research. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020 , 69, 154104	0.6	2
51	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
50	Ultrathin Acoustic Metasurface Holograms with Arbitrary Phase Control. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3585	2.6	3
49	A bi-functional illusion device based on transformation optics. <i>Journal of Optics (United Kingdom)</i> , 2019 , 21, 035104	1.7	2
48	Structure-Induced Hyperbolic Dispersion in Waveguides. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 5463-5468	4.9	6

47	Angular-Adaptive Spin-Locked Retroreflector Based on Reconfigurable Magnetic Metagrating. <i>Advanced Optical Materials</i> , 2019 , 7, 1900151	8.1	16
46	Direct current remote cloak for arbitrary objects. <i>Light: Science and Applications</i> , 2019 , 8, 30	16.7	11
45	Achieving panorama using singular metamaterials. <i>Applied Physics Letters</i> , 2019 , 114, 051904	3.4	1
44	Origami Metawall: Mechanically Controlled Absorption and Deflection of Light. <i>Advanced Science</i> , 2019 , 6, 1901434	13.6	22
43	Metasurface-based focus-tunable mirror. <i>Optics Express</i> , 2019 , 27, 30332-30339	3.3	6
42	Analog of giant magnetoimpedance in magnetized near-zero plasma. <i>Optics Letters</i> , 2019 , 44, 991-994	3	3
41	Spiral Field Generation in Smith-Purcell Radiation by Helical Metagratings. <i>Research</i> , 2019 , 2019, 3806132	7.8	14
40	Experimental Realization of an Extreme-Parameter Omnidirectional Cloak. <i>Research</i> , 2019 , 2019, 82826418	4.8	8
39	Spiral Field Generation in Smith-Purcell Radiation by Helical Metagratings. <i>Research</i> , 2019 , 2019, 1-8	7.8	2
38	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
37	3D Visible-Light Invisibility Cloak. <i>Advanced Science</i> , 2018 , 5, 1800056	13.6	20
36	Airy beams on two dimensional materials. <i>Optics Communications</i> , 2018 , 414, 40-44	2	6
35	Toroidal Localized Spoof Plasmons on Compact Metadisks. <i>Advanced Science</i> , 2018 , 5, 1700487	13.6	21
34	Multi-frequency metasurface carpet cloaks. <i>Optics Express</i> , 2018 , 26, 14123-14131	3.3	33
33	Launching phase-controlled surface plasmons on Babinet metasurfaces. <i>Optics Letters</i> , 2018 , 43, 3253-3256	3.56	3
32	Dispersion engineering of hyperbolic plasmons in bilayer 2D materials. <i>Optics Letters</i> , 2018 , 43, 5737-5740	3.9	9
31	Magnetic Hyperbolic Metasurface: Concept, Design, and Applications. <i>Advanced Science</i> , 2018 , 5, 1801495	5.6	17
30	Diodelike Spin-Orbit Interactions of Light in Chiral Metasurfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 7148-7155	4.9	16

29	Broadband compact acoustic absorber with high-efficiency ventilation performance. <i>Applied Physics Letters</i> , 2018 , 113, 103501	3.4	35
28	Kirigami metamaterials for reconfigurable toroidal circular dichroism. <i>NPG Asia Materials</i> , 2018 , 10, 888-898	3.3	39
27	Design of Ultracompact Graphene-Based Superscatterers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017 , 23, 130-137	3.8	19
26	Panoramic lens designed with transformation optics. <i>Scientific Reports</i> , 2017 , 7, 40083	4.9	15
25	Origami-Based Reconfigurable Metamaterials for Tunable Chirality. <i>Advanced Materials</i> , 2017 , 29, 1700412	4.7	129
24	Chiral metamirrors for broadband spin-selective absorption. <i>Applied Physics Letters</i> , 2017 , 110, 231103	3.4	53
23	Bistable scattering in graphene-coated dielectric nanowires. <i>Nanoscale</i> , 2017 , 9, 8449-8457	7.7	16
22	Bifunctional acoustic metamaterial lens designed with coordinate transformation. <i>Applied Physics Letters</i> , 2017 , 110, 113503	3.4	27
21	Transformation Optics: From Classic Theory and Applications to its New Branches. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1700034	8.3	34
20	Hyperbolic spoof plasmonic metasurfaces. <i>NPG Asia Materials</i> , 2017 , 9, e428-e428	10.3	77
19	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
18	Gradient Chiral Metamirrors for Spin-Selective Anomalous Reflection. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1700115	8.3	61
17	Observing the transient buildup of a superscatterer in the time domain. <i>Optics Express</i> , 2017 , 25, 4967-4974	3.7	4
16	Manipulating surface plasmon polaritons with infinitely anisotropic metamaterials. <i>Optics Express</i> , 2017 , 25, 10515-10526	3.3	11
15	Non-contact radio frequency shielding and wave guiding by multi-folded transformation optics method. <i>Scientific Reports</i> , 2016 , 6, 36846	4.9	9
14	Concealing arbitrary objects remotely with multi-folded transformation optics. <i>Light: Science and Applications</i> , 2016 , 5, e16177	16.7	44
13	Transient response of a signal through a dispersive invisibility cloak. <i>Optics Letters</i> , 2016 , 41, 4911-4914	3	11
12	Experimental study on invisibility cloaks 2016 ,		1

11	Full-Polarization 3D Metasurface Cloak with Preserved Amplitude and Phase. <i>Advanced Materials</i> , 2016 , 28, 6866-71	24	186
10	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
9	Ultra-broadband carpet cloak for transverse-electric polarization. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 044006	1.7	7
8	Large-Scale Far-Infrared Invisibility Cloak Hiding Object from Thermal Detection. <i>Advanced Optical Materials</i> , 2015 , 3, 1738-1742	8.1	19
7	A SIMPLE UNIDIRECTIONAL OPTICAL INVISIBILITY CLOAK MADE OF WATER. <i>Progress in Electromagnetics Research</i> , 2014 , 146, 1-5	3.8	3
6	Free-space carpet cloak using transformation optics and graphene. <i>Optics Letters</i> , 2014 , 39, 6739-42	3	6
5	Broadband subwavelength imaging using non-resonant metamaterials. <i>Applied Physics Letters</i> , 2014 , 104, 073502	3.4	9
4	Ray-optics cloaking devices for large objects in incoherent natural light. <i>Nature Communications</i> , 2013 , 4, 2652	17.4	112
3	Broadband polygonal invisibility cloak for visible light. <i>Scientific Reports</i> , 2012 , 2, 255	4.9	81
2	In Situ Customized Illusion Enabled by Global Metasurface Reconstruction. <i>Advanced Functional Materials</i> , 2109331	15.6	4
1	Deep Neural Network with Data Cropping Algorithm for Absorptive Frequency-Selective Transmission Metasurface. <i>Advanced Optical Materials</i> , 2200178	8.1	1