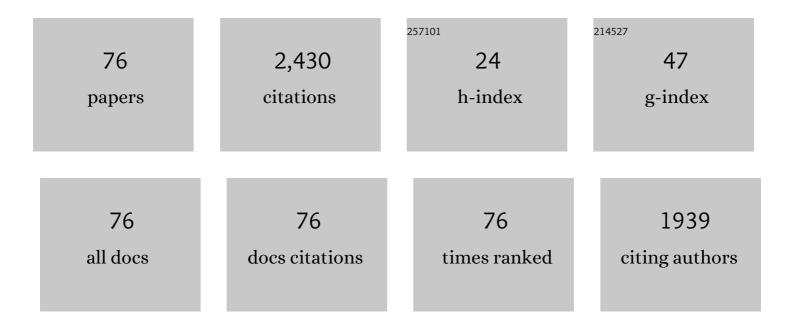
## **Bin Zheng**

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7006634/publications.pdf Version: 2024-02-01



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#	Article	IF	CITATIONS
1	Deep-learning-enabled self-adaptive microwave cloak without human intervention. Nature Photonics, 2020, 14, 383-390.	15.6	289
2	Fullâ€Polarization 3D Metasurface Cloak with Preserved Amplitude and Phase. Advanced Materials, 2016, 28, 6866-6871.	11.1	259
3	Origamiâ€Based Reconfigurable Metamaterials for Tunable Chirality. Advanced Materials, 2017, 29, 1700412.	11.1	193
4	Ray-optics cloaking devices for large objects in incoherent natural light. Nature Communications, 2013, 4, 2652.	5.8	156
5	Hyperbolic spoof plasmonic metasurfaces. NPG Asia Materials, 2017, 9, e428-e428.	3.8	97
6	Broadband polygonal invisibility cloak for visible light. Scientific Reports, 2012, 2, 255.	1.6	92
7	Gradient Chiral Metamirrors for Spin elective Anomalous Reflection. Laser and Photonics Reviews, 2017, 11, 1700115.	4.4	89
8	Chiral metamirrors for broadband spin-selective absorption. Applied Physics Letters, 2017, 110, .	1.5	77
9	Realizing transmitted metasurface cloak by a tandem neural network. Photonics Research, 2021, 9, B229.	3.4	71
10	Ultrawideband chromatic aberration-free meta-mirrors. Advanced Photonics, 2020, 3, .	6.2	63
11	Kirigami metamaterials for reconfigurable toroidal circular dichroism. NPG Asia Materials, 2018, 10, 888-898.	3.8	58
12	Broadband compact acoustic absorber with high-efficiency ventilation performance. Applied Physics Letters, 2018, 113, .	1.5	57
13	Concealing arbitrary objects remotely with multi-folded transformation optics. Light: Science and Applications, 2016, 5, e16177-e16177.	7.7	52
14	Transformation Optics: From Classic Theory and Applications to its New Branches. Laser and Photonics Reviews, 2017, 11, 1700034.	4.4	52
15	Multi-frequency metasurface carpet cloaks. Optics Express, 2018, 26, 14123.	1.7	45
16	Origami Metawall: Mechanically Controlled Absorption and Deflection of Light. Advanced Science, 2019, 6, 1901434.	5.6	42
17	Machine–learning-enabled metasurface for direction of arrival estimation. Nanophotonics, 2022, 11, 2001-2010.	2.9	39
18	Inverse design of acoustic metamaterials based on machine learning using a Gauss–Bayesian model. Journal of Applied Physics, 2020, 128, .	1.1	37

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19	Dynamic recognition and mirage using neuro-metamaterials. Nature Communications, 2022, 13, 2694.	5.8	37
20	Frequency ontrolled Focusing Using Achromatic Metasurface. Advanced Optical Materials, 2021, 9, .	3.6	36
21	In Situ Customized Illusion Enabled by Global Metasurface Reconstruction. Advanced Functional Materials, 2022, 32, .	7.8	31
22	Bifunctional acoustic metamaterial lens designed with coordinate transformation. Applied Physics Letters, 2017, 110, .	1.5	30
23	Large‣cale Farâ€Infrared Invisibility Cloak Hiding Object from Thermal Detection. Advanced Optical Materials, 2015, 3, 1738-1742.	3.6	28
24	3D Visibleâ€Light Invisibility Cloak. Advanced Science, 2018, 5, 1800056.	5.6	28
25	Toroidal Localized Spoof Plasmons on Compact Metadisks. Advanced Science, 2018, 5, 1700487.	5.6	27
26	Magnetic Hyperbolic Metasurface: Concept, Design, and Applications. Advanced Science, 2018, 5, 1801495.	5.6	24
27	Design of Ultracompact Graphene-Based Superscatterers. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 130-137.	1.9	23
28	Diodelike Spin-Orbit Interactions of Light in Chiral Metasurfaces. IEEE Transactions on Antennas and Propagation, 2018, 66, 7148-7155.	3.1	23
29	Angularâ€Adaptive Spinâ€Locked Retroreflector Based on Reconfigurable Magnetic Metagrating. Advanced Optical Materials, 2019, 7, 1900151.	3.6	23
30	Spiral Field Generation in Smith-Purcell Radiation by Helical Metagratings. Research, 2019, 2019, 3806132.	2.8	22
31	A broadband polygonal cloak for acoustic wave designed with linear coordinate transformation. Journal of the Acoustical Society of America, 2016, 140, 95-101.	0.5	21
32	Direct current remote cloak for arbitrary objects. Light: Science and Applications, 2019, 8, 30.	7.7	19
33	Panoramic lens designed with transformation optics. Scientific Reports, 2017, 7, 40083.	1.6	18
34	Bistable scattering in graphene-coated dielectric nanowires. Nanoscale, 2017, 9, 8449-8457.	2.8	17
35	Demonstration of Spiderâ€Eyesâ€Like Intelligent Antennas for Dynamically Perceiving Incoming Waves. Advanced Intelligent Systems, 2021, 3, 2100066.	3.3	16
36	Experimental Realization of an Extreme-Parameter Omnidirectional Cloak. Research, 2019, 2019, 8282641.	2.8	16

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37	Dispersion engineering of hyperbolic plasmons in bilayer 2D materials. Optics Letters, 2018, 43, 5737.	1.7	15
38	Machine-Learning-Assisted Acoustic Consecutive Fano Resonances: Application to a Tunable Broadband Low-Frequency Metasilencer. Physical Review Applied, 2021, 16, .	1.5	15
39	Machine learning-assisted low-frequency and broadband sound absorber with coherently coupled weak resonances. Applied Physics Letters, 2022, 120, .	1.5	14
40	Metasurface-based focus-tunable mirror. Optics Express, 2019, 27, 30332.	1.7	13
41	Broadband subwavelength imaging using non-resonant metamaterials. Applied Physics Letters, 2014, 104, 073502.	1.5	12
42	Manipulating surface plasmon polaritons with infinitely anisotropic metamaterials. Optics Express, 2017, 25, 10515.	1.7	12
43	Broadband Spin‣ocked Metasurface Retroreflector. Advanced Science, 2022, 9, e2201397.	5.6	12
44	Transient response of a signal through a dispersive invisibility cloak. Optics Letters, 2016, 41, 4911.	1.7	11
45	Non-contact radio frequency shielding and wave guiding by multi-folded transformation optics method. Scientific Reports, 2016, 6, 36846.	1.6	10
46	Ultra-broadband carpet cloak for transverse-electric polarization. Journal of Optics (United) Tj ETQq0 0 0 rgBT /C	verlock 10 1.0	) Tf 50 382 T
47	Free-space carpet cloak using transformation optics and graphene. Optics Letters, 2014, 39, 6739.	1.7	8
48	Non-contact method to freely control the radiation patterns of antenna with multi-folded transformation optics. Scientific Reports, 2017, 7, 13171.	1.6	8
49	Structure-Induced Hyperbolic Dispersion in Waveguides. IEEE Transactions on Antennas and Propagation, 2019, 67, 5463-5468.	3.1	8
50	Deep Neural Network with Data Cropping Algorithm for Absorptive Frequencyâ€Selective Transmission Metasurface. Advanced Optical Materials, 2022, 10, .	3.6	8
51	Airy beams on two dimensional materials. Optics Communications, 2018, 414, 40-44.	1.0	7
52	Spoof Surface Plasmonic Graphene for Controlling the Transports and Emissions of Electromagnetic Waves. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 50-56.	2.9	7

53	Design of a reconfigurable broadband greyscale multiplexed metasurface hologram. Applied Optics, 2020, 59, 3660.	0.9	7

54 Spiral Field Generation in Smith-Purcell Radiation by Helical Metagratings. Research, 2019, 2019, 1-8. 2.8 7

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#	Article	IF	CITATIONS
55	Ultrathin Acoustic Metasurface Holograms with Arbitrary Phase Control. Applied Sciences (Switzerland), 2019, 9, 3585.	1.3	6
56	Conformal hyperbolic optics. Physical Review Research, 2021, 3, .	1.3	5
57	Progress of novel electromagnetic cloaking research. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 154104.	0.2	5
58	Observing the transient buildup of a superscatterer in the time domain. Optics Express, 2017, 25, 4967.	1.7	4
59	A bi-functional illusion device based on transformation optics. Journal of Optics (United Kingdom), 2019, 21, 035104.	1.0	4
60	A SIMPLE UNIDIRECTIONAL OPTICAL INVISIBILITY CLOAK MADE OF WATER. Progress in Electromagnetics Research, 2014, 146, 1-5.	1.6	3
61	Launching phase-controlled surface plasmons on Babinet metasurfaces. Optics Letters, 2018, 43, 3253.	1.7	3
62	Homogeneous material based acoustic concentrators and rotators with linear coordinate transformation. Scientific Reports, 2021, 11, 11531.	1.6	3
63	Analog of giant magnetoimpedance in magnetized ε-near-zero plasma. Optics Letters, 2019, 44, 991.	1.7	3
64	Reconfigurable Metasurface Hologram of Dynamic Distance via Deep Learning. Frontiers in Materials, 2022, 9, .	1.2	2
65	Experimental study on invisibility cloaks. , 2016, , .		1
66	Achieving panorama using singular metamaterials. Applied Physics Letters, 2019, 114, 051904.	1.5	1
67	A microwave wideband hyperlens based on metamaterials closed-rings. , 2012, , .		0
68	Broadband 3D metamaterial carpet cloak. , 2015, , .		0
69	Subwavelength resolution using metamaterials with different dispersion relations. , 2015, , .		0
70	Remote electromagnetic devices designed with transformation optics. , 2016, , .		0
71	Polygon acoustic cloak designed with coordinate transformation. , 2016, , .		0
72	Open cloak designed with transformation optics. , 2016, , .		0

#	Article	IF	CITATIONS
73	Bifunctional acoustic lens. , 2016, , .		0
74	A remote cloak for arbitrary objects in DC frequency. , 2017, , .		0
75	Three-dimensional Direct Current Invisibility Cloak Produced with Bulk Materials. Optics Express, 0, , .	1.7	0
76	Design of ultra-thin underwater acoustic metasurface for broadband low-frequency diffuse reflection by deep neural networks. Scientific Reports, 2022, 12, .	1.6	0