

Hongchen Chu

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

534
citations

759055

12
h-index

677027

22
g-index

34
all docs

34
docs citations

34
times ranked

413
citing authors

#	ARTICLE	IF	CITATIONS
1	A hybrid invisibility cloak based on integration of transparent metasurfaces and zero-index materials. <i>Light: Science and Applications</i> , 2018, 7, 50.	7.7	156
2	Ultra-broadband reflectionless Brewster absorber protected by reciprocity. <i>Light: Science and Applications</i> , 2021, 10, 89.	7.7	43
3	Diffuse reflection and reciprocity-protected transmission via a random-flip metasurface. <i>Science Advances</i> , 2021, 7, eabj0935.	4.7	41
4	Invisible surfaces enabled by the coalescence of anti-reflection and wavefront controllability in ultrathin metasurfaces. <i>Nature Communications</i> , 2021, 12, 4523.	5.8	34
5	Experimental Observation of Linear and Rotational Doppler Shifts from Several Designer Surfaces. <i>Scientific Reports</i> , 2019, 9, 8971.	1.6	25
6	Experimental demonstration of Luneburg lens based on hyperuniform disordered media. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	21
7	Hyperuniform disordered distribution metasurface for scattering reduction. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	21
8	Three-Dimensional Electromagnetic Void Space. <i>Physical Review Letters</i> , 2021, 127, 123902.	2.9	20
9	Angular selection of incident waves by photonic crystals with position-varying Dirac points at the Brillouin zone boundary. <i>Physical Review B</i> , 2016, 93, .	1.1	17
10	Experimental observation of multiple edge and corner states in photonic slabs heterostructures. <i>Photonics Research</i> , 2022, 10, 197.	3.4	15
11	Pseudo-Hermitian Systems Constructed by Transformation Optics with Robustly Balanced Loss and Gain. <i>Advanced Photonics Research</i> , 2021, 2, 2000081.	1.7	13
12	Conformally Mapped Mikaelian Lens for Broadband Achromatic High Resolution Focusing. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000564.	4.4	13
13	Acoustic transmissive cloaking using zero-index materials and metasurfaces. <i>Applied Physics Express</i> , 2019, 12, 054004.	1.1	12
14	Through-Wall Wireless Communication Enabled by a Metalens. <i>Physical Review Applied</i> , 2022, 17, .	1.5	12
15	Breakdown of Maxwell Garnett theory due to evanescent fields at deep-subwavelength scale. <i>Photonics Research</i> , 2021, 9, 848.	3.4	10
16	Band engineering method to create Dirac cones of accidental degeneracy in general photonic crystals without symmetry. <i>Optics Express</i> , 2021, 29, 18070.	1.7	10
17	Theory and experimental observation of hyperbolic media based on structural dispersions. <i>Physical Review Materials</i> , 2020, 4, .	0.9	9
18	Modified Luneburg Lens for Achromatic Subdiffraction Focusing and Directional Emission. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 7930-7934.	3.1	8

#	ARTICLE	IF	CITATIONS
19	Ultra-compact Photonic Circuits without Cladding Layers. <i>Physical Review X</i> , 2022, 12, .	2.8	8
20	Ultra-wideband Luneburg lens with high performance based on gradient metamaterials. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 355109.	1.3	8
21	Realization of broadband coherent perfect absorption of spoof surface plasmon polaritons. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	7
22	Efficient way to convert propagating waves into guided waves via gradient wire structures. <i>Optics Letters</i> , 2016, 41, 3551.	1.7	5
23	Ultrabroadband compact lens antenna with high performance based on a transmission gradient index medium. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 175101.	1.3	5
24	Non-Hermitian photonics for coherent perfect absorption, invisibility, and lasing with different orbital angular momenta. <i>Optics Letters</i> , 2020, 45, 6635.	1.7	4
25	Wave Steering by Relaying Interface States in a Valley-Hall-Derived Photonic Superlattice. <i>Physical Review Applied</i> , 2021, 16, .	1.5	4
26	Flip-component metasurfaces for camouflaged meta-domes. <i>Optics Express</i> , 2022, 30, 17321.	1.7	4
27	Highly Efficient Gradient Solid Immersion Lens with Large Numerical Aperture for Broadband Achromatic Deep Subwavelength Focusing and Magnified Far Field. <i>Advanced Optical Materials</i> , 2021, 9, 2100509.	3.6	3
28	Highly efficient achromatic subdiffraction focusing lens in the near field with large numerical aperture. <i>Photonics Research</i> , 2021, 9, 2088.	3.4	3
29	A Metacoupler for Converting Propagating Waves to Guided Waves in Wire Waveguides. <i>IEEE Photonics Journal</i> , 2017, 9, 1-7.	1.0	2
30	Flat distorting mirrors via metasurfaces. <i>Optics Letters</i> , 2021, 46, 4738.	1.7	1
31	A meta-prism for high-efficiency coupling between free space and optical waveguides with different angular momentums. <i>Europhysics Letters</i> , 2018, 123, 38001.	0.7	0
32	Rotational Doppler Effect of Spinning Metasurface in Radar System. , 2019, , .		0
33	Pseudo-Non-Hermitian Systems Constructed by Transformation Optics with Robustly Balanced Loss and Gain. <i>Advanced Photonics Research</i> , 2021, 2, 2170005.	1.7	0
34	Non-Hermitian photonics for coherent perfect absorption, invisibility, and lasing with different orbital angular momenta: publisher's note. <i>Optics Letters</i> , 2021, 46, 4336.	1.7	0