

Guoxing Zheng

List of Publications by Year in descending order

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172457

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87
docs citations

87
times ranked

3338
citing authors

#	ARTICLE	IF	CITATIONS
1	Metasurface holograms reaching 80% efficiency. <i>Nature Nanotechnology</i> , 2015, 10, 308-312.	31.5	2,086
2	Helicity multiplexed broadband metasurface holograms. <i>Nature Communications</i> , 2015, 6, 8241.	12.8	755
3	Addressable metasurfaces for dynamic holography and optical information encryption. <i>Science Advances</i> , 2018, 4, eaar6768.	10.3	328
4	Malus-metasurface-assisted polarization multiplexing. <i>Light: Science and Applications</i> , 2020, 9, 101.	16.6	176
5	Dielectric Meta-Holograms Enabled with Dual Magnetic Resonances in Visible Light. <i>ACS Nano</i> , 2017, 11, 9382-9389.	14.6	157
6	Metasurface-based key for computational imaging encryption. <i>Science Advances</i> , 2021, 7, .	10.3	153
7	Multiplexed Anticounterfeiting Meta-image Displays with Single-Sized Nanostructures. <i>Nano Letters</i> , 2020, 20, 1830-1838.	9.1	142
8	Single-pixel computational ghost imaging with helicity-dependent metasurface hologram. <i>Science Advances</i> , 2017, 3, e1701477.	10.3	112
9	Full-space Cloud of Random Points with a Scrambling Metasurface. <i>Light: Science and Applications</i> , 2018, 7, 63.	16.6	112
10	Three-Channel Metasurfaces for Simultaneous Meta-Holography and Meta-Nanoprinting: A Single-Cell Design Approach. <i>Laser and Photonics Reviews</i> , 2020, 14, 2000032.	8.7	110
11	Spatial Frequency Multiplexed Meta-Holography and Meta-Nanoprinting. <i>ACS Nano</i> , 2019, 13, 9237-9246.	14.6	76
12	A Single-Celled Tri-Functional Metasurface Enabled with Triple Manipulations of Light. <i>Advanced Functional Materials</i> , 2020, 30, 2003990.	14.9	71
13	From Lingering to Rift: Metasurface Decoupling for Near- and Far-Field Functionalization. <i>Advanced Materials</i> , 2021, 33, e2007507.	21.0	60
14	All-silicon nanorod-based Dammann gratings. <i>Optics Letters</i> , 2015, 40, 4285.	3.3	55
15	Reconfigurable step-zoom metalens without optical and mechanical compensations. <i>Optics Express</i> , 2019, 27, 12221.	3.4	51
16	Multichannel Metasurfaces for Anticounterfeiting. <i>Physical Review Applied</i> , 2019, 12, .	3.8	49
17	Dual field-of-view step-zoom metalens. <i>Optics Letters</i> , 2017, 42, 1261.	3.3	48
18	Mass-Manufactured Beam-Steering Metasurfaces for High-Speed Full-Duplex Optical Wireless-Broadcasting Communications. <i>Advanced Materials</i> , 2022, 34, e2106080.	21.0	45

#	ARTICLE	IF	CITATIONS
19	Advances in exploiting the degrees of freedom in nanostructured metasurface design: from 1 to 3 to more. <i>Nanophotonics</i> , 2020, 9, 3699-3731.	6.0	42
20	Real-time Tunable Nanoprinting Multiplexing with Simultaneous Meta-holography Displays by Stepwise Nanocavities. <i>Advanced Functional Materials</i> , 2022, 32, 2110022.	14.9	42
21	Augmented Reality Enabled by On-chip Meta-holography Multiplexing. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	41
22	Ultracompact, high-resolution and continuous grayscale image display based on resonant dielectric metasurfaces. <i>Optics Express</i> , 2019, 27, 27927.	3.4	40
23	Full-space metasurface holograms in the visible range. <i>Optics Express</i> , 2021, 29, 2920.	3.4	37
24	Ultracompact high-efficiency polarising beam splitter based on silicon nanobrick arrays. <i>Optics Express</i> , 2016, 24, 6749.	3.4	35
25	Controlling phase of arbitrary polarizations using both the geometric phase and the propagation phase. <i>Physical Review B</i> , 2018, 97, .	3.2	34
26	Zero-order-free meta-holograms in a broadband visible range. <i>Photonics Research</i> , 2020, 8, 723.	7.0	34
27	Depth perception based 3D holograms enabled with polarization-independent metasurfaces. <i>Optics Express</i> , 2018, 26, 11843.	3.4	33
28	Angular Multiplexing Metasurface: Building Up Independent Encoded Amplitude/Phase Dictionary for Angular Illumination. <i>Advanced Optical Materials</i> , 2021, 9, 2101547.	7.3	32
29	Reconfigurable continuous-zoom metalens in visible band. <i>Chinese Optics Letters</i> , 2019, 17, 111603.	2.9	32
30	Dual-Channel Binary Gray-Image Display Enabled with Malus-Assisted Metasurfaces. <i>Physical Review Applied</i> , 2020, 13, .	3.8	31
31	Non-orthogonal polarization multiplexed metasurfaces for tri-channel polychromatic image displays and information encryption. <i>Nanophotonics</i> , 2021, 10, 2903-2914.	6.0	31
32	Actively Switchable Beam Steering via Hydrophilic/Hydrophobic Selective Design of Water-immersed Metasurface. <i>Advanced Optical Materials</i> , 2021, 9, 2100297.	7.3	29
33	Multifunctional Liquid Crystal Device for Grayscale Pattern Display and Holography with Tunable Spectral Response. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	29
34	Compressive Imaging Encryption with Secret Sharing Metasurfaces. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	29
35	Single-size nanostructured metasurface for dual-channel vortex beam generation. <i>Optics Letters</i> , 2020, 45, 3773.	3.3	28
36	Bi-layer Metasurface Design, Fabrication, and Functionalization for Full-space Light Manipulation. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	28

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37	Cherenkov polaritonic radiation in a natural hyperbolic material. Carbon, 2019, 150, 136-141.	10.3	24
38	Stepwise Dual-Mode Fabry-Pérot Nanocavity for Grayscale Imaging Encryption/Concealment with Holographic Multiplexing. Advanced Optical Materials, 2021, 9, 2100950.	7.3	23
39	Graphene surface-polariton in-plane Cherenkov radiation. Carbon, 2018, 133, 249-253.	10.3	22
40	Structural-color nanoprinting with hidden watermarks. Optics Letters, 2021, 46, 480.	3.3	22
41	Multifold Integration of Printed and Holographic Meta-Image Displays Enabled by Dual-Degeneracy. Small, 2022, 18, e2106148.	10.0	22
42	Single-celled multifunctional metasurfaces merging structural-color nanoprinting and holography. Optics Express, 2021, 29, 10737.	3.4	20
43	Non-orthogonal-polarization multiplexed metasurfaces for tri-channel gray-imaging. Optics Express, 2021, 29, 134.	3.4	19
44	Asymmetric hologram with a single-size nanostructured metasurface. Optics Express, 2021, 29, 19964.	3.4	17
45	Geometric Phase Generated Optical Illusion. Scientific Reports, 2017, 7, 11440.	3.3	16
46	Multiplexing meta-hologram with separate control of amplitude and phase. Optics Express, 2021, 29, 27696.	3.4	16
47	Near-infrared light driven tissue-penetrating cardiac optogenetics via upconversion nanoparticles in vivo. Biomedical Optics Express, 2020, 11, 1401.	2.9	16
48	Planar ultrathin omni-directional perfect absorber utilizing amorphous silicon for photovoltaics. Optical Materials Express, 2020, 10, 532.	3.0	16
49	Visible-frequency meta-gratings for light steering, beam splitting and absorption tunable functionality. Optics Express, 2019, 27, 37318.	3.4	15
50	The phase mode of reflected beam from laser retroreflector with dihedral angle and flatness error. Optical Review, 2011, 18, 1-6.	2.0	13
51	A hyperlens-based device for nanoscale focusing of light. Chinese Optics Letters, 2012, 10, 042302-42304.	2.9	13
52	On-axis three-dimensional meta-holography enabled with continuous-amplitude modulation of light. Optics Express, 2021, 29, 6147.	3.4	10
53	2D-space uniform-backscattering metasurfaces enabled with geometric phase and magnetic resonance in visible light. Optics Express, 2020, 28, 12331.	3.4	10
54	Silicon-on-insulator based multifunctional metasurface with simultaneous polarization and geometric phase controls. Optics Express, 2020, 28, 26359.	3.4	10

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55	3D Meta-Prisms for Versatile Beam Steering by Hybridizing Plasmonic and Diffractive Effect in the Broadband Visible Regime. <i>Small</i> , 2021, 17, e2100561.	10.0	9
56	Micrograting-array beam-shaping technique for asymmetrical laser beams. <i>Applied Optics</i> , 2005, 44, 3540.	2.1	8
57	Dichroic Polarizing Metasurfaces for Color Control and Pseudo-Color Encoding. <i>IEEE Photonics Technology Letters</i> , 2021, 33, 77-80.	2.5	8
58	Metasurface-enabled three-in-one nanoprints by multifunctional manipulations of light. <i>IScience</i> , 2021, 24, 103510.	4.1	8
59	Light Spin Angular Momentum Spatial Mode Converter Based on Dielectric Metasurface. <i>Journal of Lightwave Technology</i> , 2021, 39, 2438-2442.	4.6	6
60	Metasurfaces with single-sized antennas for reconstructing full-color holographic images without cross talk. <i>Optics Letters</i> , 2021, 46, 5417.	3.3	5
61	Broadband continuous achromatic and super-dispersive metalens in near-infrared band. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	5
62	Modeling and experimental verification of optical materials formed by stacked nanostrips. <i>Optics Express</i> , 2010, 18, 14842.	3.4	4
63	A Hyperlens-embedded solid immersion lens for beam focusing beyond the diffraction limit. <i>IEEE Photonics Technology Letters</i> , 2011, , .	2.5	3
64	A binary beam-splitter for lidar beam-shaping in laser imaging application. , 2007, , .		2
65	Research on far-field diffraction of cube-corner retroreflector in the satellite laser ranging system. <i>Proceedings of SPIE</i> , 2010, , .	0.8	2
66	Design method to enhance the transmittance of a structured lens based on nonperiodic sampling. <i>Optical Engineering</i> , 2011, 50, 018001.	1.0	2
67	A Pixilated Spectrometer Based on Single Liquid Crystal and Sparse Algorithm. <i>IEEE Photonics Journal</i> , 2016, 8, 1-6.	2.0	2
68	A fluctuation-insensitive diffractive optical homogenizer for excimer beam shaping. , 2005, , .		1
69	Focusing a beam beyond the diffraction limit using a hyperlens-based device. <i>Chinese Physics B</i> , 2011, 20, 117802.	1.4	1
70	A microspectrometer based on subwavelength metal nanohole array. , 2014, , .		1
71	Design the diffractive optical element with large diffraction angle. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1
72	Broadband and high-efficiency half-waveplate based on dielectric metasurfaces. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
73	High-power LDA beam transformation using diffractive grating array. , 2005, , .		0
74	High-power laser diode array beam-shaping by rhomboid prism arrays. Journal of Optics, 2008, 10, 075301.	1.5	0
75	Algorithm Optimization and Mask Data Generating for Dammann Gratings in Laser Medical Applications. , 2010, , .		0
76	The Impact of Parameters of Hyperlens with Artificially Engineered Metamaterial on Sub-Diffraction Imaging. Advanced Materials Research, 2012, 482-484, 1111-1114.	0.3	0
77	High pulse repetition frequency fiber-coupled laser-diode module. Optical Engineering, 2016, 55, 126108.	1.0	0
78	Numerical ray-tracing approach with laser intensity distribution for LIDAR signal power function computation. Optical Review, 2016, 23, 770-775.	2.0	0
79	High performance optical elements and devices based on dielectric metasurface. , 2016, , .		0
80	3D Meta-Prisms for Versatile Beam Steering by Hybridizing Plasmonic and Diffractive Effect in the Broadband Visible Regime (Small 34/2021). Small, 2021, 17, 2170175.	10.0	0
81	The Influence of Noise on Range Error of Satellite Laser Altimeter with Recorded Waveforms. Communications in Computer and Information Science, 2012, , 158-163.	0.5	0
82	A planar hyperlens-based device for super-resolution magnification imaging in a far field. Chinese Optics Letters, 2014, 12, S11601-311603.	2.9	0
83	Focusing microwaves into subwavelength dimensions with a half-cylindrical hyperlens based on split ring resonators. Chinese Optics Letters, 2014, 12, 081602-81605.	2.9	0
84	Graphene Plasmonic in-Plane Cherenkov Radiation. , 2018, , .		0
85	Single-cell nanostructured metasurface for simultaneous holography and gray-image display. , 2020, , .		0
86	LCOS based Optical Wireless Communication System for Multicast Service. , 2020, , .		0