Wenwei Liu

List of Publications by Year
in descending order

53 papers	2,506 citations	186265 28 h-index	197818 49 g-index
53 all docs	53 docs citations	53 times ranked	2103 citing authors

#	Article	IF	Citations
1	Inverse Design of Few-Layer Metasurfaces Empowered by the Matrix Theory of Multilayer Optics. Physical Review Applied, 2022, 17, .	3.8	7
2	Dielectric Polarizationâ€Filtering Metasurface Doublet for Trifunctional Control of Fullâ€Space Visible Light. Laser and Photonics Reviews, 2022, 16, .	8.7	11
3	Flexible Confinement and Manipulation of Mie Resonances via Nano Rectangular Hollow Metasurfaces. Advanced Optical Materials, 2022, 10, .	7.3	7
4	Deepâ€Learning Enabled Multicolor Metaâ€Holography. Advanced Optical Materials, 2022, 10, .	7.3	9
5	Highâ€Performance Transmission Structural Colors Generated by Hybrid Metalâ€Dielectric Metasurfaces. Advanced Optical Materials, 2021, 9, 2100895.	7.3	20
6	Multiband quasibound states in the continuum engineered by space-group-invariant metasurfaces. Physical Review B, 2021, 104, .	3.2	25
7	Full Complexâ€Amplitude Modulation of Second Harmonic Generation with Nonlinear Metasurfaces. Laser and Photonics Reviews, 2021, 15, 2100207.	8.7	18
8	Metasurfaceâ€Empowered Optical Multiplexing and Multifunction. Advanced Materials, 2020, 32, e1805912.	21.0	169
9	Giant Intrinsic Chirality in Curled Metasurfaces. ACS Photonics, 2020, 7, 3415-3422.	6.6	30
10	Vortical Reflection and Spiraling Fermi Arcs with Weyl Metamaterials. Physical Review Letters, 2020, 125, 093904.	7.8	26
11	Dielectric Resonance-Based Optical Metasurfaces: From Fundamentals to Applications. IScience, 2020, 23, 101868.	4.1	37
12	Back-Reflected Performance-Enhanced Flexible Perovskite Photodetectors through Substrate Texturing with Femtosecond Laser. ACS Applied Materials & Interfaces, 2020, 12, 26614-26623.	8.0	12
13	Spinâ€Selective Fullâ€Dimensional Manipulation of Optical Waves with Chiral Mirror. Advanced Materials, 2020, 32, e1907983.	21.0	52
14	Few-layer metasurfaces with arbitrary scattering properties. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	5.1	16
15	Metasurfaces: Metasurfaceâ€Empowered Optical Multiplexing and Multifunction (Adv. Mater. 3/2020). Advanced Materials, 2020, 32, 2070022.	21.0	10
16	A Bilayer Plasmonic Metasurface for Polarizationâ€Insensitive Bidirectional Perfect Absorption. Advanced Theory and Simulations, 2020, 3, 1900216.	2.8	12
17	Multiplexed Nondiffracting Nonlinear Metasurfaces. Advanced Functional Materials, 2020, 30, 1910744.	14.9	16
18	Diffractive metalens: from fundamentals, practical applications to current trends. Advances in Physics: X, 2020, 5, 1742584.	4.1	22

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19	Aberration-corrected three-dimensional positioning with a single-shot metalens array. Optica, 2020, 7, 1706.	9.3	43
20	Optical Information Multiplexing with Nonlinear Coding Metasurfaces. Laser and Photonics Reviews, 2019, 13, 1900045.	8.7	41
21	Energyâ€Tailorable Spinâ€Selective Multifunctional Metasurfaces with Full Fourier Components. Advanced Materials, 2019, 31, e1901729.	21.0	69
22	Arbitrary Manipulation of Light Intensity by Bilayer Aluminum Metasurfaces. Advanced Optical Materials, 2019, 7, 1900260.	7.3	26
23	Metasurfaces: From Singleâ€Dimensional to Multidimensional Manipulation of Optical Waves with Metasurfaces (Adv. Mater. 16/2019). Advanced Materials, 2019, 31, 1970118.	21.0	4
24	Anomalous reflection and vortex beam generation by multi-bit coding acoustic metasurfaces. Applied Physics Letters, 2019, 114, .	3.3	51
25	From Singleâ€Dimensional to Multidimensional Manipulation of Optical Waves with Metasurfaces. Advanced Materials, 2019, 31, e1802458.	21.0	127
26	Ultrahighly Saturated Structural Colors Enhanced by Multipolar-Modulated Metasurfaces. Nano Letters, 2019, 19, 4221-4228.	9.1	146
27	Spinâ€Selective and Wavelengthâ€Selective Demultiplexing Based on Waveguideâ€Integrated Allâ€Dielectric Metasurfaces. Advanced Optical Materials, 2019, 7, 1801273.	7.3	36
28	Metasurface Enabled Wideâ€Angle Fourier Lens. Advanced Materials, 2018, 30, e1706368.	21.0	112
29	Dynamically Tunable Deep Subwavelength Highâ€Order Anomalous Reflection Using Graphene Metasurfaces. Advanced Optical Materials, 2018, 6, 1701047.	7.3	42
30	Polarizationâ€Sensitive Structural Colors with Hueâ€andâ€Saturation Tuning Based on Allâ€Dielectric Nanopixels. Advanced Optical Materials, 2018, 6, 1701009.	7.3	95
31	Tripling the Capacity of Optical Vortices by Nonlinear Metasurface. Laser and Photonics Reviews, 2018, 12, 1800164.	8.7	44
32	Geometric Metasurfaces for Ultrathin Optical Devices. Advanced Optical Materials, 2018, 6, 1800348.	7.3	58
33	Breaking the Diffraction Limit with Radially Polarized Light Based on Dielectric Metalenses. Advanced Optical Materials, 2018, 6, 1800795.	7.3	62
34	Manipulation of the Photonic Spin Hall Effect with High Efficiency in Goldâ€Nanorodâ€Based Metasurfaces. Advanced Optical Materials, 2017, 5, 1700413.	7.3	37
35	Ultrathin polarization-insensitive wide-angle broadband near-perfect absorber in the visible regime based on few-layer MoS2 films. Applied Physics Letters, 2017, 111, 111109.	3.3	27
36	Spin-Selective Transmission and Devisable Chirality in Two-Layer Metasurfaces. Scientific Reports, 2017, 7, 8204.	3.3	42

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37	Single-Layer Plasmonic Metasurface Half-Wave Plates with Wavelength-Independent Polarization Conversion Angle. ACS Photonics, 2017, 4, 2061-2069.	6.6	48
38	Momentum Analysis for Metasurfaces. Physical Review Applied, 2017, 8, .	3.8	16
39	Simultaneous generation of high-efficiency broadband asymmetric anomalous refraction and reflection waves with few-layer anisotropic metasurface. Scientific Reports, 2016, 6, 35485.	3.3	45
40	Highâ€Efficiency Mutual Dualâ€Band Asymmetric Transmission of Circularly Polarized Waves with Fewâ€Layer Anisotropic Metasurfaces. Advanced Optical Materials, 2016, 4, 2028-2034.	7.3	86
41	Optical Polarization Encoding Using Grapheneâ€Loaded Plasmonic Metasurfaces. Advanced Optical Materials, 2016, 4, 91-98.	7.3	100
42	Polarization: Optical Polarization Encoding Using Grapheneâ€Loaded Plasmonic Metasurfaces (Advanced Optical Materials 1/2016). Advanced Optical Materials, 2016, 4, 2-2.	7.3	0
43	Realizing Broadband and Invertible Linear-to-circular Polarization Converter with Ultrathin Single-layer Metasurface. Scientific Reports, 2016, 5, 18106.	3.3	128
44	Interferometric Control of Signal Light Intensity by Anomalous Refraction with Plasmonic Metasurface. Plasmonics, 2016, 11, 353-358.	3.4	5
45	Refraction: Dynamically Tunable Broadband Infrared Anomalous Refraction Based on Graphene Metasurfaces (Advanced Optical Materials 12/2015). Advanced Optical Materials, 2015, 3, 1743-1743.	7.3	4
46	Highâ€Performance Broadband Circularly Polarized Beam Deflector by Mirror Effect of Multinanorod Metasurfaces. Advanced Functional Materials, 2015, 25, 5428-5434.	14.9	69
47	Dynamically Tunable Broadband Infrared Anomalous Refraction Based on Graphene Metasurfaces. Advanced Optical Materials, 2015, 3, 1744-1749.	7.3	108
48	Beam Deflectors: Highâ€Performance Broadband Circularly Polarized Beam Deflector by Mirror Effect of Multinanorod Metasurfaces (Adv. Funct. Mater. 34/2015). Advanced Functional Materials, 2015, 25, 5567-5567.	14.9	0
49	High Performance Broadband Asymmetric Polarization Conversion Due to Polarization-dependent Reflection. Plasmonics, 2015, 10, 1703-1711.	3.4	31
50	Dynamically Tunable Plasmonic Lens between the Near and Far Fields Based on Composite Nanorings Illuminated with Radially Polarized Light. Plasmonics, 2015, 10, 625-631.	3.4	8
51	Realization of broadband cross-polarization conversion in transmission mode in the terahertz region using a single-layer metasurface. Optics Letters, 2015, 40, 3185.	3.3	212
52	Fully interferometric controllable anomalous refraction efficiency using cross modulation with plasmonic metasurfaces. Optics Letters, 2014, 39, 6763.	3.3	19
53	Polarization-insensitive and wide-angle plasmonically induced transparency by planar metamaterials. Applied Physics Letters, 2012, 101, .	3.3	66