

Wenwei Liu

List of Publications by Year in descending order

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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	Realization of broadband cross-polarization conversion in transmission mode in the terahertz region using a single-layer metasurface. <i>Optics Letters</i> , 2015, 40, 3185.	3.3	212
2	Metasurface-Empowered Optical Multiplexing and Multifunction. <i>Advanced Materials</i> , 2020, 32, e1805912.	21.0	169
3	Ultrahighly Saturated Structural Colors Enhanced by Multipolar-Modulated Metasurfaces. <i>Nano Letters</i> , 2019, 19, 4221-4228.	9.1	146
4	Realizing Broadband and Invertible Linear-to-circular Polarization Converter with Ultrathin Single-layer Metasurface. <i>Scientific Reports</i> , 2016, 5, 18106.	3.3	128
5	From Single-Dimensional to Multidimensional Manipulation of Optical Waves with Metasurfaces. <i>Advanced Materials</i> , 2019, 31, e1802458.	21.0	127
6	Metasurface Enabled Wide-Angle Fourier Lens. <i>Advanced Materials</i> , 2018, 30, e1706368.	21.0	112
7	Dynamically Tunable Broadband Infrared Anomalous Refraction Based on Graphene Metasurfaces. <i>Advanced Optical Materials</i> , 2015, 3, 1744-1749.	7.3	108
8	Optical Polarization Encoding Using Graphene-Loaded Plasmonic Metasurfaces. <i>Advanced Optical Materials</i> , 2016, 4, 91-98.	7.3	100
9	Polarization-Sensitive Structural Colors with Hue and Saturation Tuning Based on All-Dielectric Nanopixels. <i>Advanced Optical Materials</i> , 2018, 6, 1701009.	7.3	95
10	High-Efficiency Mutual Dual-Band Asymmetric Transmission of Circularly Polarized Waves with Few-Layer Anisotropic Metasurfaces. <i>Advanced Optical Materials</i> , 2016, 4, 2028-2034.	7.3	86
11	High-Performance Broadband Circularly Polarized Beam Deflector by Mirror Effect of Multinorod Metasurfaces. <i>Advanced Functional Materials</i> , 2015, 25, 5428-5434.	14.9	69
12	Energy-Tailorable Spin-Selective Multifunctional Metasurfaces with Full Fourier Components. <i>Advanced Materials</i> , 2019, 31, e1901729.	21.0	69
13	Polarization-insensitive and wide-angle plasmonically induced transparency by planar metamaterials. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	66
14	Breaking the Diffraction Limit with Radially Polarized Light Based on Dielectric Metalenses. <i>Advanced Optical Materials</i> , 2018, 6, 1800795.	7.3	62
15	Geometric Metasurfaces for Ultrathin Optical Devices. <i>Advanced Optical Materials</i> , 2018, 6, 1800348.	7.3	58
16	Spin-Selective Full-Dimensional Manipulation of Optical Waves with Chiral Mirror. <i>Advanced Materials</i> , 2020, 32, e1907983.	21.0	52
17	Anomalous reflection and vortex beam generation by multi-bit coding acoustic metasurfaces. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	51
18	Single-Layer Plasmonic Metasurface Half-Wave Plates with Wavelength-Independent Polarization Conversion Angle. <i>ACS Photonics</i> , 2017, 4, 2061-2069.	6.6	48

#	ARTICLE	IF	CITATIONS
19	Simultaneous generation of high-efficiency broadband asymmetric anomalous refraction and reflection waves with few-layer anisotropic metasurface. <i>Scientific Reports</i> , 2016, 6, 35485.	3.3	45
20	Tripling the Capacity of Optical Vortices by Nonlinear Metasurface. <i>Laser and Photonics Reviews</i> , 2018, 12, 1800164.	8.7	44
21	Aberration-corrected three-dimensional positioning with a single-shot metalens array. <i>Optica</i> , 2020, 7, 1706.	9.3	43
22	Spin-Selective Transmission and Devisable Chirality in Two-Layer Metasurfaces. <i>Scientific Reports</i> , 2017, 7, 8204.	3.3	42
23	Dynamically Tunable Deep Subwavelength High-Order Anomalous Reflection Using Graphene Metasurfaces. <i>Advanced Optical Materials</i> , 2018, 6, 1701047.	7.3	42
24	Optical Information Multiplexing with Nonlinear Coding Metasurfaces. <i>Laser and Photonics Reviews</i> , 2019, 13, 1900045.	8.7	41
25	Manipulation of the Photonic Spin Hall Effect with High Efficiency in Gold-Nanorod-Based Metasurfaces. <i>Advanced Optical Materials</i> , 2017, 5, 1700413.	7.3	37
26	Dielectric Resonance-Based Optical Metasurfaces: From Fundamentals to Applications. <i>IScience</i> , 2020, 23, 101868.	4.1	37
27	Spin-Selective and Wavelength-Selective Demultiplexing Based on Waveguide-Integrated All-Dielectric Metasurfaces. <i>Advanced Optical Materials</i> , 2019, 7, 1801273.	7.3	36
28	High Performance Broadband Asymmetric Polarization Conversion Due to Polarization-dependent Reflection. <i>Plasmonics</i> , 2015, 10, 1703-1711.	3.4	31
29	Giant Intrinsic Chirality in Curled Metasurfaces. <i>ACS Photonics</i> , 2020, 7, 3415-3422.	6.6	30
30	Ultrathin polarization-insensitive wide-angle broadband near-perfect absorber in the visible regime based on few-layer MoS ₂ films. <i>Applied Physics Letters</i> , 2017, 111, 111109.	3.3	27
31	Arbitrary Manipulation of Light Intensity by Bilayer Aluminum Metasurfaces. <i>Advanced Optical Materials</i> , 2019, 7, 1900260.	7.3	26
32	Vortical Reflection and Spiraling Fermi Arcs with Weyl Metamaterials. <i>Physical Review Letters</i> , 2020, 125, 093904.	7.8	26
33	Multiband quasibound states in the continuum engineered by space-group-invariant metasurfaces. <i>Physical Review B</i> , 2021, 104, .	3.2	25
34	Diffractive metalens: from fundamentals, practical applications to current trends. <i>Advances in Physics: X</i> , 2020, 5, 1742584.	4.1	22
35	High-Performance Transmission Structural Colors Generated by Hybrid Metal-Dielectric Metasurfaces. <i>Advanced Optical Materials</i> , 2021, 9, 2100895.	7.3	20
36	Fully interferometric controllable anomalous refraction efficiency using cross modulation with plasmonic metasurfaces. <i>Optics Letters</i> , 2014, 39, 6763.	3.3	19

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37	Full Complex Amplitude Modulation of Second Harmonic Generation with Nonlinear Metasurfaces. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100207.	8.7	18
38	Few-layer metasurfaces with arbitrary scattering properties. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	5.1	16
39	Multiplexed Nondiffracting Nonlinear Metasurfaces. <i>Advanced Functional Materials</i> , 2020, 30, 1910744.	14.9	16
40	Momentum Analysis for Metasurfaces. <i>Physical Review Applied</i> , 2017, 8, .	3.8	16
41	Back-Reflected Performance-Enhanced Flexible Perovskite Photodetectors through Substrate Texturing with Femtosecond Laser. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26614-26623.	8.0	12
42	A Bilayer Plasmonic Metasurface for Polarization-Insensitive Bidirectional Perfect Absorption. <i>Advanced Theory and Simulations</i> , 2020, 3, 1900216.	2.8	12
43	Dielectric Polarization-Filtering Metasurface Doublet for Trifunctional Control of Full-Space Visible Light. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	11
44	Metasurfaces: Metasurface-Empowered Optical Multiplexing and Multifunction (Adv. Mater. 3/2020). <i>Advanced Materials</i> , 2020, 32, 2070022.	21.0	10
45	Deep-Learning Enabled Multicolor Meta-Holography. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	9
46	Dynamically Tunable Plasmonic Lens between the Near and Far Fields Based on Composite Nanorings Illuminated with Radially Polarized Light. <i>Plasmonics</i> , 2015, 10, 625-631.	3.4	8
47	Inverse Design of Few-Layer Metasurfaces Empowered by the Matrix Theory of Multilayer Optics. <i>Physical Review Applied</i> , 2022, 17, .	3.8	7
48	Flexible Confinement and Manipulation of Mie Resonances via Nano Rectangular Hollow Metasurfaces. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	7
49	Interferometric Control of Signal Light Intensity by Anomalous Refraction with Plasmonic Metasurface. <i>Plasmonics</i> , 2016, 11, 353-358.	3.4	5
50	Refraction: Dynamically Tunable Broadband Infrared Anomalous Refraction Based on Graphene Metasurfaces (Advanced Optical Materials 12/2015). <i>Advanced Optical Materials</i> , 2015, 3, 1743-1743.	7.3	4
51	Metasurfaces: From Single-Dimensional to Multidimensional Manipulation of Optical Waves with Metasurfaces (Adv. Mater. 16/2019). <i>Advanced Materials</i> , 2019, 31, 1970118.	21.0	4
52	Beam Deflectors: High-Performance Broadband Circularly Polarized Beam Deflector by Mirror Effect of Multinorod Metasurfaces (Adv. Funct. Mater. 34/2015). <i>Advanced Functional Materials</i> , 2015, 25, 5567-5567.	14.9	0
53	Polarization: Optical Polarization Encoding Using Graphene-Loaded Plasmonic Metasurfaces (Advanced Optical Materials 1/2016). <i>Advanced Optical Materials</i> , 2016, 4, 2-2.	7.3	0