

Arbitrary spin-to-orbital angular momentum conversion

Science

358, 896-901

DOI: [10.1126/science.aao5392](https://doi.org/10.1126/science.aao5392)

Citation Report

#	ARTICLE	IF	CITATIONS
1	The future and promise of flat optics: a personal perspective. <i>Nanophotonics</i> , 2018, 7, 953-957.	2.9	113
2	Polarization-independent broadband meta-holograms <i>via</i> polarization-dependent nanoholes. <i>Nanoscale</i> , 2018, 10, 9304-9310.	2.8	30
3	Subwavelength Optical Engineering with Metasurface Waves. <i>Advanced Optical Materials</i> , 2018, 6, 1701201.	3.6	148
4	Functional metasurfaces based on metallic and dielectric subwavelength slits and stripes array. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 144003.	0.7	11
5	Optical Metasurfaces: Progress and Applications. <i>Annual Review of Materials Research</i> , 2018, 48, 279-302.	4.3	111
6	Diatomic Metasurface for Vectorial Holography. <i>Nano Letters</i> , 2018, 18, 2885-2892.	4.5	263
7	Chip-Integrated Geometric Metasurface As a Novel Platform for Directional Coupling and Polarization Sorting by Spin-Orbit Interaction. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018, 24, 1-7.	1.9	50
8	Helicity-Induced Multifunctional Devices Based on Hybrid Metasurfaces. , 2018, , .		0
9	Negative Refraction Based on Guided-Mode Assisted Meta-Gratings. , 2018, , .		0
10	A review of complex vector light fields and their applications. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 123001.	1.0	296
11	Bifunctional metasurface for independently generating vortex beams and pencil beams. , 2018, , .		0
12	Chirality-Assisted High-Efficiency Metasurfaces with Independent Control of Phase, Amplitude, and Polarization. <i>Advanced Optical Materials</i> , 2019, 7, 1801479.	3.6	181
13	Perfect Higher-Order Poincaré Sphere Beams from Digitalized Geometric Phases. <i>Physical Review Applied</i> , 2018, 10, .	1.5	31
14	Structuring visible light with dielectric metasurfaces. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 113002.	1.0	8
15	Engineering Optics 2.0: A Revolution in Optical Materials, Devices, and Systems. <i>ACS Photonics</i> , 2018, 5, 4724-4738.	3.2	77
16	Orbital angular momentum induced by nonabsorbing optical elements through space-variant polarization-state manipulations. <i>Physical Review A</i> , 2018, 98, .	1.0	2
17	Angular-momentum nanometrology in an ultrathin plasmonic topological insulator film. <i>Nature Communications</i> , 2018, 9, 4413.	5.8	61
18	Generation of vortex beams with multi topological charges, high purity and operating on broadband using a simple silver metasurface. <i>Optik</i> , 2018, 175, 319-327.	1.4	4

#	ARTICLE	IF	CITATIONS
19	Mass-polariton theory of sharing the total angular momentum of light between the field and matter. Physical Review A, 2018, 98, .	1.0	21
20	Quantum metasurface for multiphoton interference and state reconstruction. Science, 2018, 361, 1104-1108.	6.0	227
21	Numerical analysis of a photonic crystal fiber for supporting 76 orbital angular momentum modes. Journal of Optics (United Kingdom), 2018, 20, 105701.	1.0	23
22	Recent advances on optical vortex generation. Nanophotonics, 2018, 7, 1533-1556.	2.9	238
23	Plasmonic Manipulation of Targeted Metallic Particles by Polarization-Sensitive Metalens. ACS Photonics, 2018, 5, 2945-2950.	3.2	17
24	Sharp focusing of vector optical vortices using a metalens. Journal of Optics (United Kingdom), 2018, 20, 075101.	1.0	9
25	Special Issue on "Ultra-capacity Metasurfaces with Low Dimension and High Efficiency" ACS Photonics, 2018, 5, 1640-1642.	3.2	10
26	Propagation of a vortex elliptical Airy beam. Optics Communications, 2018, 427, 288-293.	1.0	12
27	Geometric Metasurfaces for Ultrathin Optical Devices. Advanced Optical Materials, 2018, 6, 1800348.	3.6	58
28	Creation of independently controllable multiple focal spots from segmented Pancharatnam-Berry phases. Scientific Reports, 2018, 8, 9831.	1.6	14
29	Dynamic control of cylindrical vector beams via anisotropy. Optics Express, 2018, 26, 18721.	1.7	6
30	Full control of conical beam carrying orbital angular momentum by reflective metasurface. Optics Express, 2018, 26, 20990.	1.7	29
31	Dielectric metasurfaces enabling twisted light generation/detection/(de)multiplexing for data information transfer. Optics Express, 2018, 26, 13183.	1.7	22
32	Spin-selected and spin-independent dielectric metalenses. Journal of Optics (United Kingdom), 2018, 20, 095102.	1.0	24
33	Enhanced high-harmonic generation from an all-dielectric metasurface. Nature Physics, 2018, 14, 1006-1010.	6.5	215
34	From nanoscopic to macroscopic photo-driven motion in azobenzene-containing materials. Nanophotonics, 2018, 7, 1387-1422.	2.9	143
35	Babinet-bilayered geometric phase optical elements. Optics Letters, 2018, 43, 2623.	1.7	4
36	Nanoscale Polarization Manipulation and Encryption Based on Dielectric Metasurfaces. Advanced Optical Materials, 2018, 6, 1800490.	3.6	56

#	ARTICLE	IF	CITATIONS
37	Tightly focused field modulated by spiral phase with an off-axis singularity. <i>Applied Physics B: Lasers and Optics</i> , 2018, 124, 1.	1.1	1
38	Controlling phase of arbitrary polarizations using both the geometric phase and the propagation phase. <i>Physical Review B</i> , 2018, 97, .	1.1	34
39	High-efficiency chiral meta-lens. <i>Scientific Reports</i> , 2018, 8, 7240.	1.6	36
40	Disruptive: making lenses in a foundry. <i>Advanced Optical Technologies</i> , 2018, 7, 115-118.	0.9	0
41	All-Silicon Broadband Ultraviolet Metasurfaces. <i>Advanced Materials</i> , 2018, 30, e1802632.	11.1	51
42	Controlling Surface Plasmons Through Covariant Transformation of the Spin-Dependent Geometric Phase Between Curved Metamaterials. <i>Physical Review Letters</i> , 2018, 120, 243901.	2.9	29
43	Controlling the phase of optical nonlinearity with plasmonic metasurfaces. <i>Nanophotonics</i> , 2018, 7, 1013-1024.	2.9	30
44	Nonlinear Vectorial Metasurface for Optical Encryption. <i>Physical Review Applied</i> , 2019, 12, .	1.5	43
45	The angular momentum of an isotropic cholesteric liquid crystal induced by a plane elliptically polarized wave near the phase transition temperature. <i>Laser Physics Letters</i> , 2019, 16, 095501.	0.6	3
46	Dielectric cross-shaped-resonator-based metasurface for vortex beam generation at mid-IR and THz wavelengths. <i>Nanophotonics</i> , 2019, 8, 1263-1270.	2.9	29
47	Orbital-Angular-Momentum Multiplexed Continuous-Variable Entanglement from Four-Wave Mixing in Hot Atomic Vapor. <i>Physical Review Letters</i> , 2019, 123, 070506.	2.9	83
48	Free-Form Diffractive Metagrating Design Based on Generative Adversarial Networks. <i>ACS Nano</i> , 2019, 13, 8872-8878.	7.3	243
49	Metasurface orbital angular momentum holography. <i>Nature Communications</i> , 2019, 10, 2986.	5.8	303
50	High-Efficiency Metalenses with Switchable Functionalities in Microwave Region. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 28423-28430.	4.0	177
51	High-Efficiency Ultrathin Dual-Wavelength Pancharatnam-Berry Metasurfaces with Complete Independent Phase Control. <i>Advanced Optical Materials</i> , 2019, 7, 1900594.	3.6	67
52	Spin-Orbit Angular Momentum Conversion in Metamaterials and Metasurfaces. <i>Quantum Reports</i> , 2019, 1, 91-106.	0.6	8
53	Coupling-Mediated Selective Spin-to-Plasmonic Orbital Angular Momentum Conversion. <i>Advanced Optical Materials</i> , 2019, 7, 1900713.	3.6	11
54	Implementation of generalized measurements on a qudit via quantum walks. <i>Physical Review A</i> , 2019, 99, .	1.0	15

#	ARTICLE	IF	CITATIONS
55	Nanoscale optical lattices of arbitrary orders manipulated by plasmonic metasurfaces combining geometrical and dynamic phases. <i>Nanoscale</i> , 2019, 11, 14024-14031.	2.8	14
56	Polarization-enabled tunable focusing by visible-light metalenses with geometric and propagation phase. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 115102.	1.0	7
57	Wavelength-decoupled geometric metasurfaces by arbitrary dispersion control. <i>Communications Physics</i> , 2019, 2, .	2.0	44
58	Spin-Symmetry Breaking Through Metasurface Geometric Phases. <i>Physical Review Applied</i> , 2019, 12, .	1.5	26
59	Liquidâ€Crystalâ€Mediated Geometric Phase: From Transmissive to Broadband Reflective Planar Optics. <i>Advanced Materials</i> , 2020, 32, e1903665.	11.1	124
60	Spinâ€toâ€Orbital Angular Momentum Conversion with Quasiâ€Continuous Spatial Phase Response. <i>Advanced Optical Materials</i> , 2019, 7, 1901188.	3.6	28
61	Structured Light from Lasers. <i>Laser and Photonics Reviews</i> , 2019, 13, 1900140.	4.4	182
62	TiO ₂ metasurfaces: From visible planar photonics to photochemistry. <i>Science Advances</i> , 2019, 5, eaax0939.	4.7	91
63	All-Glass, Large Metalens at Visible Wavelength Using Deep-Ultraviolet Projection Lithography. <i>Nano Letters</i> , 2019, 19, 8673-8682.	4.5	165
64	Spin-Decoupled Multifunctional Metasurface for Asymmetric Polarization Generation. <i>ACS Photonics</i> , 2019, 6, 2933-2941.	3.2	74
65	Expanded Jones complex space model to describe arbitrary higher-order spatial states in fiber. <i>Nanophotonics</i> , 2019, 8, 1757-1769.	2.9	6
66	Learning Transferable Self-Attentive Representations for Action Recognition in Untrimmed Videos with Weak Supervision. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2019, 33, 9227-9234.	3.6	49
67	Nearâ€Field Orbital Angular Momentum Generation and Detection Based on Spinâ€Orbit Interaction in Gold Metasurfaces. <i>Advanced Theory and Simulations</i> , 2019, 2, 1900133.	1.3	14
68	High-efficiency Dual-band Bifocal Metalens Based on Reflective Metasurface. , 2019, , .		3
69	Microwave Meta-lens for Generating Polarization-Independent refracted waves. , 2019, , .		0
70	Controlling the degrees of freedom in metasurface designs for multi-functional optical devices. <i>Nanoscale Advances</i> , 2019, 1, 3786-3806.	2.2	30
71	Complex vectorial optics through gradient index lens cascades. <i>Nature Communications</i> , 2019, 10, 4264.	5.8	79
72	3D-Integrated metasurfaces for full-colour holography. <i>Light: Science and Applications</i> , 2019, 8, 86.	7.7	187

#	ARTICLE	IF	CITATIONS
73	Analysis and Design of a Broadband Metasurface- Based Vortex Beam Generator. IEEE Access, 2019, 7, 129529-129536.	2.6	4
74	All-optical vectorial control of multistate magnetization through anisotropy-mediated spin-orbit coupling. Nanophotonics, 2019, 8, 2177-2188.	2.9	15
75	Optical vortices 30 years on: OAM manipulation from topological charge to multiple singularities. Light: Science and Applications, 2019, 8, 90.	7.7	1,151
76	Spin-Switched Three-Dimensional Full-Color Scenes Based on a Dielectric Meta-hologram. ACS Photonics, 2019, 6, 2910-2916.	3.2	39
77	A Zero-Rank, Maximum Nullity Perfect Electromagnetic Wave Absorber. Advanced Optical Materials, 2019, 7, 1801632.	3.6	33
78	Multichannel Spatially Nonhomogeneous Focused Vector Vortex Beams for Quantum Experiments. Advanced Optical Materials, 2019, 7, 1801415.	3.6	34
79	Single-Layer Bifacial Metasurface: Full-Space Visible Light Control. Advanced Optical Materials, 2019, 7, 1801748.	3.6	36
80	Manipulation for Superposition of Orbital Angular Momentum States in Surface Plasmon Polaritons. Advanced Optical Materials, 2019, 7, 1900372.	3.6	31
81	Geometric phase from Aharonov-Bohm to Pancharatnam-Berry and beyond. Nature Reviews Physics, 2019, 1, 437-449.	11.9	167
82	Wavefront detection using curved nanoscale apertures. Applied Physics Letters, 2019, 114, 183103.	1.5	2
83	A monolithic immersion metalens for imaging solid-state quantum emitters. Nature Communications, 2019, 10, 2392.	5.8	75
84	Energy-Tailorable Spin-Selective Multifunctional Metasurfaces with Full Fourier Components. Advanced Materials, 2019, 31, e1901729.	11.1	69
85	Optical Metasurfaces for Designing Planar Cassegrain-Schwarzschild Objectives. Physical Review Applied, 2019, 11, .	1.5	11
86	A Free-Space Orbital Angular Momentum Multiplexing Communication System Based on a Metasurface. Laser and Photonics Reviews, 2019, 13, 1800278.	4.4	51
87	Optical Metasurfaces: Evolving from Passive to Adaptive. Advanced Optical Materials, 2019, 7, 1801786.	3.6	95
88	High-Efficiency Dual-Frequency Reflective Linear Polarization Converter Based on Metasurface for Microwave Bands. Applied Sciences (Switzerland), 2019, 9, 1910.	1.3	17
89	General framework for the frequency shifting of electromagnetic pulses using time-dependent surfaces. Physical Review B, 2019, 99, .	1.1	4
90	Diatomic metasurface based broadband J-plate for arbitrary spin-to-orbital conversion. Journal Physics D: Applied Physics, 2019, 52, 324002.	1.3	11

#	ARTICLE	IF	CITATIONS
91	Generation of Spin-Dependent Accelerating Beam with Geometric Metasurface. <i>Advanced Optical Materials</i> , 2019, 7, 1900552.	3.6	23
92	Polarization beam splitter with disparate functionality in transmission and reflection modes. <i>Optics Communications</i> , 2019, 443, 104-109.	1.0	13
93	Dual-Helicity Decoupled Coding Metasurface for Independent Spin-to-Orbital Angular Momentum Conversion. <i>Physical Review Applied</i> , 2019, 11, .	1.5	137
94	Hyperbolic Metamaterials and Metasurfaces: Fundamentals and Applications. <i>Advanced Optical Materials</i> , 2019, 7, 1801616.	3.6	144
95	Spatially and spectrally resolved orbital angular momentum interactions in plasmonic vortex generators. <i>Light: Science and Applications</i> , 2019, 8, 33.	7.7	25
96	Unconventional, efficient and flexible bifocal lens design by metalens and AFA beam combination. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 055101.	1.0	3
97	Ground-State Phase Diagram of a Spin-Orbital-Angular-Momentum Coupled Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2019, 122, 110402.	2.9	52
98	Conservation of the spin angular momentum in second-harmonic generation with elliptically polarized vortex beams. <i>Applied Physics Letters</i> , 2019, 114, 101101.	1.5	6
99	Optically controlling the emission chirality of microlasers. <i>Nature Photonics</i> , 2019, 13, 283-288.	15.6	109
100	Robust polarization twist by pairs of multilayers with tilted optical axes. <i>Physical Review B</i> , 2019, 99, .	1.1	25
101	Methodologies for On-Demand Dispersion Engineering of Waves in Metasurfaces. <i>Advanced Optical Materials</i> , 2019, 7, 1801376.	3.6	23
102	Integration of Ultrathin Metasurfaces with a Lens for Efficient Polarization Division Multiplexing. <i>Advanced Optical Materials</i> , 2019, 7, 1900116.	3.6	18
103	Visible-broadband Localized Vector Vortex Beam Generator with a Multi-structure-composited Meta-surface. <i>Nanomaterials</i> , 2019, 9, 166.	1.9	2
104	Versatile total angular momentum generation using cascaded J-plates. <i>Optics Express</i> , 2019, 27, 7469.	1.7	39
105	Near-field imaging of surface-plasmon vortex-modes around a single elliptical nanohole in a gold film. <i>Scientific Reports</i> , 2019, 9, 5320.	1.6	11
106	Vortex beam generated by circular-polarized metasurface reflector antenna. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 255306.	1.3	30
107	Dual-frequency geometric phase metasurface for dual-mode vortex beam generator. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 255002.	1.3	17
108	Chirp Signal Transmission and Reception With Orbital Angular Momentum Multiplexing. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019, 18, 986-990.	2.4	6

#	ARTICLE	IF	CITATIONS
109	From Single- to Multidimensional Manipulation of Optical Waves with Metasurfaces. <i>Advanced Materials</i> , 2019, 31, e1802458.	11.1	127
110	All-dielectric metasurfaces for simultaneously realizing polarization rotation and wavefront shaping of visible light. <i>Nanoscale</i> , 2019, 11, 4083-4090.	2.8	40
111	Self-induced liquid crystal q-plate by photoelectric interface activation. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	11
112	Ultrasmall Optical Vortex Knots Generated by Spin-Selective Metasurface Holograms. <i>Advanced Optical Materials</i> , 2019, 7, 1900263.	3.6	32
113	Classically Entangled Light. <i>Progress in Optics</i> , 2019, 64, 99-153.	0.4	52
114	Spatial light modulator-based programmable J-plate for the arbitrary spin-to-orbital angular momentum conversion of lights. <i>Applied Physics B: Lasers and Optics</i> , 2019, 125, 1.	1.1	9
115	Cassegrain metasurface for generation of orbital angular momentum of light. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	14
116	High-Efficiency and Broadband Near-Infrared Bi-Functional Metasurface Based on Rotary Different-Size Silicon Nanobricks. <i>Nanomaterials</i> , 2019, 9, 1744.	1.9	21
117	Metasurface for Constructing a Stable High-Q Planar Open Cavity. <i>Advanced Optical Materials</i> , 2019, 7, 1801339.	3.6	5
118	Multidimensional Manipulation of Photonic Spin Hall Effect with a Single-Layer Dielectric Metasurface. <i>Advanced Optical Materials</i> , 2019, 7, 1801365.	3.6	83
119	Broadband Generation of Photonic Spin-Controlled Arbitrary Accelerating Light Beams in the Visible. <i>Nano Letters</i> , 2019, 19, 1158-1165.	4.5	94
120	Subwavelength Artificial Structures: Opening a New Era for Engineering Optics. <i>Advanced Materials</i> , 2019, 31, e1804680.	11.1	156
121	Generating Controllable Laguerre-Gaussian Laser Modes Through Intracavity Spin-Orbital Angular Momentum Conversion of Light. <i>Physical Review Applied</i> , 2019, 11, .	1.5	47
122	Interference-assisted kaleidoscopic meta-plexer for arbitrary spin-wavefront manipulation. <i>Light: Science and Applications</i> , 2019, 8, 3.	7.7	153
123	Deflecting transmissive light beams with metasurfaces based on crystalline silicon high-contrast grating. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 084001.	1.3	2
124	Metasurfaces for independent manipulation of the wavefronts in the different states of phase change materials. <i>Applied Physics Express</i> , 2019, 12, 012003.	1.1	2
125	Completely Spin-Decoupled Dual-Phase Hybrid Metasurfaces for Arbitrary Wavefront Control. <i>ACS Photonics</i> , 2019, 6, 211-220.	3.2	132
126	Structured Semiconductor Interfaces: Active Functionality on Light Manipulation. <i>Proceedings of the IEEE</i> , 2020, 108, 772-794.	16.4	16

#	ARTICLE	IF	CITATIONS
127	Anisotropic metasurfaces for efficient polarization independent wavefront steering. Journal Physics D: Applied Physics, 2020, 53, 045104.	1.3	5
128	Efficient point-by-point manipulated visible meta-vortex lenses with arbitrary orbital angular momentum. Nanotechnology, 2020, 31, 035702.	1.3	10
129	Trichromatic and Tripolarization-Channel Holography with Noninterleaved Dielectric Metasurface. Nano Letters, 2020, 20, 994-1002.	4.5	167
130	A Single Noninterleaved Metasurface for High-Capacity and Flexible Mode Multiplexing of Higher-Order Poincaré Sphere Beams. Advanced Materials, 2020, 32, e1903983.	11.1	67
131	Active Anisotropic Coding Metasurface with Independent Real-Time Reconfigurability for Dual Polarized Waves. Advanced Materials Technologies, 2020, 5, 1900930.	3.0	72
132	All-Optical Switchable Vanadium Dioxide Integrated Coding Metasurfaces for Wavefront and Polarization Manipulation of Terahertz Beams. Advanced Theory and Simulations, 2020, 3, 1900183.	1.3	36
133	Directional Janus Metasurface. Advanced Materials, 2020, 32, e1906352.	11.1	193
134	Chiral Coupling of Valley Excitons and Light through Photonic Spin-Orbit Interactions. Advanced Optical Materials, 2020, 8, 1901233.	3.6	44
135	Focused vortex-beam generation using gap-surface plasmon metasurfaces. Nanophotonics, 2020, 9, 371-378.	2.9	55
136	All-optical switchable terahertz spin-photon devices based on vanadium dioxide integrated metasurfaces. Optics Communications, 2020, 460, 124986.	1.0	19
137	Arbitrary vectorial state conversion using liquid crystal spatial light modulators. Optics Communications, 2020, 459, 125028.	1.0	18
138	Wavevector and Frequency Multiplexing Performed by a Spin-Decoupled Multichannel Metasurface. Advanced Materials Technologies, 2020, 5, 1900710.	3.0	87
139	Large-Scale Quantum Network over 66 Orbital Angular Momentum Optical Modes. Physical Review Letters, 2020, 125, 140501.	2.9	34
140	Sound vortex diffraction via topological charge in phase gradient metagratings. Science Advances, 2020, 6, .	4.7	73
141	Orbital angular momentum dichroism caused by the interaction of electric and magnetic dipole moments and the geometrical asymmetry of chiral metal nanoparticles. Physical Review A, 2020, 102, .	1.0	12
142	Frequency-Multiplexed Complex-Amplitude Meta-Devices Based on Bispectral 2-Bit Coding Meta-Atoms. Advanced Optical Materials, 2020, 8, 2000919.	3.6	27
143	Catenary Functions Meet Electromagnetic Waves: Opportunities and Promises. Advanced Optical Materials, 2020, 8, 2001194.	3.6	42
144	High-efficiency focused optical vortex generation with geometric gap-surface plasmon metalenses. Applied Physics Letters, 2020, 117, .	1.5	15

#	ARTICLE	IF	CITATIONS
145	Phase Singularities to Polarization Singularities. International Journal of Optics, 2020, 2020, 1-33.	0.6	59
146	Enhancing the modal purity of orbital angular momentum photons. APL Photonics, 2020, 5, 070802.	3.0	28
147	A Fully Phase-Modulated Metasurface as An Energy-Controllable Circular Polarization Router. Advanced Science, 2020, 7, 2001437.	5.6	191
148	Ultrafast vortex microlasers based on bounded states in the continuum. Science Bulletin, 2020, 65, 1519-1520.	4.3	1
149	Spin-Symmetry-Selective Generation of Ultracompact Optical Vortices in Nanoapertures without Chirality. Small Structures, 2020, 1, 2000008.	6.9	3
150	Structured Light by Rotating Au Nanoparticles in a Dynamic Distribution. Journal of Physics: Conference Series, 2020, 1540, 012014.	0.3	0
151	A dielectric metasurface optical chip for the generation of cold atoms. Science Advances, 2020, 6, eabb6667.	4.7	69
152	Optical Metasurfaces for Generation and Superposition of Optical Ring Vortex Beams. Laser and Photonics Reviews, 2020, 14, 2000146.	4.4	41
153	Broadband Detection of Multiple Spin and Orbital Angular Momenta via Dielectric Metasurface. Laser and Photonics Reviews, 2020, 14, 2000062.	4.4	58
154	Index-Tunable Structured-Light Beams from a Laser with an Intracavity Astigmatic Mode Converter. Physical Review Applied, 2020, 14, .	1.5	29
155	Recent advances in multi-dimensional metasurfaces holographic technologies. PhotonIX, 2020, 1, .	5.5	140
156	Bi-functional meta-device with full energy utilization in co- and cross-polarization fields. Applied Physics Letters, 2020, 117, .	1.5	8
157	Ultrafast control of fractional orbital angular momentum of microlaser emissions. Light: Science and Applications, 2020, 9, 179.	7.7	34
158	Electron cyclotron motion excited surface plasmon and radiation with orbital angular momentum on a semiconductor thin film. Scientific Reports, 2020, 10, 16768.	1.6	2
159	Geometric metasurface for multiplexing terahertz plasmonic vortices. Applied Physics Letters, 2020, 117, .	1.5	17
160	Multistate Switching of Photonic Angular Momentum Coupling in Phase-Change Metadevices. Advanced Materials, 2020, 32, e1908194.	11.1	88
161	Dynamically Self-Reconfigurable Multifunctional All-Passive Metasurface. ACS Applied Materials & Interfaces, 2020, 12, 42393-42402.	4.0	19
162	Digital-Coding-Feeding Metasurfaces for Differently Polarized Wave Emission, Orbit Angular Momentum Generation, and Scattering Manipulation. Advanced Photonics Research, 2020, 1, 2000012.	1.7	31

#	ARTICLE	IF	CITATIONS
163	Terahertz Angle-Multiplexed Metasurface for Multi-Dimensional Multiplexing of Spatial and Frequency Domains. <i>Advanced Theory and Simulations</i> , 2020, 3, 2000115.	1.3	20
164	Metasurface-Enhanced Lab-on-a-Fiber Biosensors. <i>Laser and Photonics Reviews</i> , 2020, 14, 2000180.	4.4	58
165	SU(2) Poincaré sphere: A generalized representation for multidimensional structured light. <i>Physical Review A</i> , 2020, 102, .	1.0	51
166	Deuterogenic Plasmonic Vortices. <i>Nano Letters</i> , 2020, 20, 6774-6779.	4.5	38
167	Simultaneous Generation of Arbitrary Assembly of Polarization States with Geometrical-Scaling-Induced Phase Modulation. <i>Physical Review X</i> , 2020, 10, .	2.8	27
168	Independent phase modulation for quadruplex polarization channels enabled by chirality-assisted geometric-phase metasurfaces. <i>Nature Communications</i> , 2020, 11, 4186.	5.8	274
169	Detection of Polarization and Topological Charge Based on Multidimensional Field of Metasurface. <i>IEEE Photonics Journal</i> , 2020, 12, 1-10.	1.0	1
170	Dielectric Resonance-Based Optical Metasurfaces: From Fundamentals to Applications. <i>IScience</i> , 2020, 23, 101868.	1.9	37
171	Recent twists in twisted light: A Perspective on optical vortices from dielectric metasurfaces. <i>Applied Physics Letters</i> , 2020, 117, 140501.	1.5	12
172	High-Order Nonlinear Spin-Orbit Interaction on Plasmonic Metasurfaces. <i>Nano Letters</i> , 2020, 20, 8549-8555.	4.5	21
173	Wearable Conformal Metasurfaces for Polarization Division Multiplexing. <i>Advanced Optical Materials</i> , 2020, 8, 2000068.	3.6	21
174	Spin-Selective Full-Dimensional Manipulation of Optical Waves with Chiral Mirror. <i>Advanced Materials</i> , 2020, 32, e1907983.	11.1	52
175	A Photonic crystal fiber with large effective refractive index separation and low dispersion. <i>PLoS ONE</i> , 2020, 15, e0232982.	1.1	2
176	Simultaneous light spin and orbital angular momentum detection using orthogonal nanoslit pairs in semi-ring array. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2020, 41, 100814.	1.0	4
177	Polarization-multiplexed metalens via spin-independent manipulation of spin-orbit interactions. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 085103.	1.0	2
178	Optical Gap-Surface Plasmon Metasurfaces for Spin-Controlled Surface Plasmon Excitation and Anomalous Beam Steering. <i>ACS Photonics</i> , 2020, 7, 1849-1856.	3.2	33
179	Analysis of Hybrid Vector Beams Generated with a Detuned Q-Plate. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3427.	1.3	15
180	Simultaneous Full-Color Printing and Holography Enabled by Centimeter-Scale Plasmonic Metasurfaces. <i>Advanced Science</i> , 2020, 7, 1903156.	5.6	74

#	ARTICLE	IF	CITATIONS
181	Dual Coaxial Longitudinal Polarization Vortex Structures. <i>Physical Review Letters</i> , 2020, 124, 103901.	2.9	46
182	Full-Color Complex-Amplitude Vectorial Holograms Based on Multi-Freedom Metasurfaces. <i>Advanced Functional Materials</i> , 2020, 30, 1910610.	7.8	214
183	Anisotropic Impedance Surface-Enabled Low-Profile Broadband Dual-Circularly Polarized Multibeam Reflectarrays for Ka -Band Applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2020, 68, 6441-6446.	3.1	33
184	Broad Bandwidth and Highly Efficient Recognition of Optical Vortex Modes Achieved by the Neural-Network Approach. <i>Physical Review Applied</i> , 2020, 13, .	1.5	15
185	Ultrahigh Angular Selectivity of Disorder-Engineered Metasurfaces. <i>ACS Photonics</i> , 2020, 7, 991-1000.	3.2	15
186	Polarisation-insensitive generation of complex vector modes from a digital micromirror device. <i>Scientific Reports</i> , 2020, 10, 10434.	1.6	40
187	Interplay between Spin and Orbital Angular Momenta in Tightly Focused Higher-Order Poincaré Sphere Beams. <i>Annalen Der Physik</i> , 2020, 532, 2000110.	0.9	15
188	Dielectric metasurfaces: From wavefront shaping to quantum platforms. <i>Progress in Surface Science</i> , 2020, 95, 100584.	3.8	23
189	Terahertz Reconfigurable Metasurface for Dynamic Non-Diffractive Orbital Angular Momentum Beams using Vanadium Dioxide. <i>IEEE Photonics Journal</i> , 2020, 12, 1-12.	1.0	12
190	Octave bandwidth photonic fishnet-achromatic-metalens. <i>Nature Communications</i> , 2020, 11, 3205.	5.8	108
191	Ultra-compact visible light depolarizer based on dielectric metasurface. <i>Applied Physics Letters</i> , 2020, 116, 0511031-511035.	1.5	9
192	Nonlinear Chiral Meta-Mirrors: Enabling Technology for Ultrafast Switching of Light Polarization. <i>Nano Letters</i> , 2020, 20, 2047-2055.	4.5	56
193	Tying Polarization-Switchable Optical Vortex Knots and Links via Holographic All-Dielectric Metasurfaces. <i>Laser and Photonics Reviews</i> , 2020, 14, 1900366.	4.4	31
194	Ultrafast control of vortex microlasers. <i>Science</i> , 2020, 367, 1018-1021.	6.0	457
195	Ultrawideband Spin-Decoupled Coding Metasurface for Independent Dual-Channel Wavefront Tailoring. <i>Annalen Der Physik</i> , 2020, 532, 1900472.	0.9	25
196	Broadband and dispersion-free reflective silver metasurfaces as half-wave plate and vortex-beam generator. <i>Optics Communications</i> , 2020, 465, 125561.	1.0	19
197	Nonlinear Wavefront Control by Geometric-Phase Dielectric Metasurfaces: Influence of Mode Field and Rotational Symmetry. <i>Advanced Optical Materials</i> , 2020, 8, 1902050.	3.6	38
198	Trends in Quantum Nanophotonics. <i>Advanced Quantum Technologies</i> , 2020, 3, 1900126.	1.8	37

#	ARTICLE	IF	CITATIONS
199	Multidimensional entanglement transport through single-mode fiber. <i>Science Advances</i> , 2020, 6, eaay0837.	4.7	64
200	Experimental Demonstration of Multidimensional and Multifunctional Metalenses Based on Photonic Spin Hall Effect. <i>ACS Photonics</i> , 2020, 7, 512-518.	3.2	62
201	Complete Control of Multichannel, Angle-Dependent, and Arbitrary Spatially Varying Polarization Fields. <i>Advanced Optical Materials</i> , 2020, 8, 1901674.	3.6	38
202	Broadband Spin-Decoupled Metasurface for Dual-Circularly Polarized Reflector Antenna Design. <i>IEEE Transactions on Antennas and Propagation</i> , 2020, 68, 3534-3543.	3.1	57
203	Low-Profile and Wideband Dual-Circularly Polarized Reflect-Arrays Based on Rotated Metal-Backed Dual-Polarized Aperture-Coupled Patch Elements. <i>IEEE Transactions on Antennas and Propagation</i> , 2020, 68, 2108-2117.	3.1	33
204	Light-induced complex surface structuring of azobenzene-containing materials. , 2020, , 273-296.		2
205	Deterministic Realization of Quasicrystal Surface Relief Gratings on Thin Azopolymer Films. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902118.	1.9	27
206	High-purity orbital angular momentum states from a visible metasurface laser. <i>Nature Photonics</i> , 2020, 14, 498-503.	15.6	230
207	Diffraction metalens: from fundamentals, practical applications to current trends. <i>Advances in Physics: X</i> , 2020, 5, 1742584.	1.5	22
208	A Thin Self-Feeding Janus Metasurface for Manipulating Incident Waves and Emitting Radiation Waves Simultaneously. <i>Annalen Der Physik</i> , 2020, 532, 2000020.	0.9	98
209	Inverse design of metasurface optical filters using deep neural network with high degrees of freedom. <i>Informa-Materials</i> , 2021, 3, 432-442.	8.5	35
210	Single-layer dielectric metasurface with giant chiroptical effects combining geometric and propagation phase. <i>Optics Communications</i> , 2021, 478, 126405.	1.0	5
211	Polarization-Engineered Noninterleaved Metasurface for Integer and Fractional Orbital Angular Momentum Multiplexing. <i>Laser and Photonics Reviews</i> , 2021, 15, .	4.4	160
212	Generation of Concentric Space-Variant Linear Polarized Light by Dielectric Metalens. <i>Nano Letters</i> , 2021, 21, 562-568.	4.5	5
213	High Efficiency Polarization-Encoded Holograms with Ultrathin Bilayer Spin-Decoupled Information Metasurfaces. <i>Advanced Optical Materials</i> , 2021, 9, 2001609.	3.6	44
214	Structured Light in Turbulence. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-21.	1.9	79
215	Visible frequency broadband dielectric metahologram by random Fourier phase-only encoding. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	2.0	6
216	Programmable Controls to Scattering Properties of Radiation Array. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000449.	4.4	93

#	ARTICLE	IF	CITATIONS
217	A Wideband OAM Antenna Based on Chiral Harmonic Diffraction. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 2290-2294.	2.4	6
218	All-dielectric chiral coding metasurface based on spin-decoupling in terahertz band. Nanophotonics, 2021, 10, 1347-1355.	2.9	32
219	Quantum features of structured light. , 2021, , 77-93.		1
220	Generation and Conversion Dynamics of Dual Bessel Beams with a Photonic Spin-Dependent Dielectric Metasurface. Physical Review Applied, 2021, 15, .	1.5	26
221	All-silicon metasurfaces for polarization multiplexed generation of terahertz photonic orbital angular momentum superposition states. Journal of Materials Chemistry C, 2021, 9, 5478-5485.	2.7	13
222	Wideband and Low-Profile Integrated Dual-Circularly-Polarized Transmit-Arrays Enabled by Antenna-Filter-Antenna Phase Shifting Cells. IEEE Transactions on Antennas and Propagation, 2021, 69, 7462-7475.	3.1	25
223	Generation of electromagnetic solitons with angular momentum. Optics Letters, 2021, 46, 336.	1.7	0
224	A Novel Vortex Synthetic Aperture Radar Imaging System: Decreasing the Pulse Repetition Frequency Without Increasing the Antenna Aperture. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	5
225	Polarization-Insensitive Metalens and Its Applications to Reflectarrays With Polarization Diversity. IEEE Transactions on Antennas and Propagation, 2022, 70, 1895-1905.	3.1	10
226	Dynamically tunable polarization beam splitting with slotted graphene patch arrays in the terahertz regime. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 401.	0.9	2
227	Spin and orbital angular momentum coupling. , 2021, , 177-203.		0
228	Optical vortices in nanophotonics. Chinese Optics, 2021, 14, 1-20.	0.2	2
229	Fine manipulation of terahertz waves via all-silicon metasurfaces with an independent amplitude and phase. Nanoscale, 2021, 13, 5809-5816.	2.8	25
230	Full-Stokes Polarization Perfect Absorption with Diatomic Metasurfaces. Nano Letters, 2021, 21, 1090-1095.	4.5	78
231	Principles, Functions, and Applications of Optical Meta-Lens. Advanced Optical Materials, 2021, 9, 2001414.	3.6	112
232	Generation of vector beams of Bell-like states by manipulating vector vortex modes with plasmonic metasurfaces. Optics Letters, 2021, 46, 528.	1.7	8
233	Laser Beam Measurement and Characterization Techniques. , 2021, , 1-42.		0
234	VCSELs with On-Facet Metasurfaces for Polarization State Generation and Detection. Advanced Optical Materials, 2021, 9, 2001780.	3.6	14

#	ARTICLE	IF	CITATIONS
235	All-dielectric metasurface for fully resolving arbitrary beams on a higher-order Poincaré sphere. <i>Photonics Research</i> , 2021, 9, 331.	3.4	24
236	Tri-state Metasurface-Based Electromagnetic Screen with Switchable Reflection, Transmission, and Absorption Functionalities. <i>ACS Applied Electronic Materials</i> , 2021, 3, 1184-1190.	2.0	33
237	Control of Light Transmission in a Plasmonic Liquid Metacrystal. <i>Nanomaterials</i> , 2021, 11, 346.	1.9	4
238	Metasurfaces with Planar Chiral Meta-Atoms for Spin Light Manipulation. <i>Nano Letters</i> , 2021, 21, 1815-1821.	4.5	62
239	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
240	“Meta-atomless” architecture based on an irregular continuous fabric of coupling-tuned identical nanopillars enables highly efficient and achromatic metasurfaces. <i>Applied Physics Letters</i> , 2021, 118, 081105.	1.5	5
241	Vector vortex state preservation in Fresnel cylindrical diffraction. <i>Optics Letters</i> , 2021, 46, 1313.	1.7	2
242	Adiabatic Floquet-Wave Expansion for the Analysis of Leaky-Wave Holograms Generating Polarized Vortex Beams. <i>Physical Review Applied</i> , 2021, 15, .	1.5	6
243	Spontaneously coherent orbital coupling of counterrotating exciton polaritons in annular perovskite microcavities. <i>Light: Science and Applications</i> , 2021, 10, 45.	7.7	26
244	Spin-Encoded Wavelength-Direction Multitasking Janus Metasurfaces. <i>Advanced Optical Materials</i> , 2021, 9, 2100190.	3.6	73
245	Metasurface spatiotemporal dynamics and asymmetric photonic spin-orbit interactions mediated vector-polarization optical chaos. <i>Physical Review Research</i> , 2021, 3, .	1.3	13
246	All-Dielectric Metasurface for Manipulating the Superpositions of Orbital Angular Momentum via Spin-Decoupling. <i>Advanced Optical Materials</i> , 2021, 9, 2002007.	3.6	44
247	Measures of space-time nonseparability of electromagnetic pulses. <i>Physical Review Research</i> , 2021, 3, .	1.3	27
248	Spin-decoupled metasurface for simultaneous detection of spin and orbital angular momenta via momentum transformation. <i>Light: Science and Applications</i> , 2021, 10, 63.	7.7	196
249	Revisiting the anomalous spin-Hall effect of light near the Brewster angle. <i>Physical Review A</i> , 2021, 103, .	1.0	43
250	Creation and control of high-dimensional multi-partite classically entangled light. <i>Light: Science and Applications</i> , 2021, 10, 50.	7.7	61
251	Recent Advances in Polarization-Encoded Optical Metasurfaces. <i>Advanced Photonics Research</i> , 2021, 2, 2000173.	1.7	46
252	Vector-Mode Decay in Atmospheric Turbulence: An Analysis Inspired by Quantum Mechanics. <i>Physical Review Applied</i> , 2021, 15, .	1.5	7

#	ARTICLE	IF	CITATIONS
253	Phase Change Metasurfaces by Continuous or Quasi-Continuous Atoms for Active Optoelectronic Integration. <i>Materials</i> , 2021, 14, 1272.	1.3	6
254	Poincaré Rotator for Vortexed Photons. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	10
255	Wavefront-selective Fano resonant metasurfaces. <i>Advanced Photonics</i> , 2021, 3, .	6.2	40
256	Rotational Doppler effect detection by LG beams with a nonzero radial index. <i>Optics Express</i> , 2021, 29, 10275.	1.7	16
257	Efficient generation of complex vectorial optical fields with metasurfaces. <i>Light: Science and Applications</i> , 2021, 10, 67.	7.7	75
258	Reply to: Reconsidering metasurface lasers. <i>Nature Photonics</i> , 2021, 15, 339-340.	15.6	1
259	Sampling a vortex from a Gaussian beam using a wedge-plate shearing interferometer. <i>Applied Optics</i> , 2021, 60, 3510.	0.9	5
260	Design of Multifunctional Janus Metasurface Based on Subwavelength Grating. <i>Nanomaterials</i> , 2021, 11, 1034.	1.9	12
261	Converting an array of edge dislocations into a multi-vortex beam. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2021, 38, 719.	0.8	3
263	Radiation-Type Metasurfaces for Advanced Electromagnetic Manipulation. <i>Advanced Functional Materials</i> , 2021, 31, 2100569.	7.8	18
264	Polarization-insensitive 3D conformal-skin metasurface cloak. <i>Light: Science and Applications</i> , 2021, 10, 75.	7.7	111
265	Vanadium dioxide embedded frequency reconfigurable metasurface for multi-dimensional multiplexing of terahertz communication. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 255003.	1.3	6
266	High-accuracy longitudinal position measurement using self-accelerating light. <i>Applied Optics</i> , 2021, 60, 3203.	0.9	3
267	Multifunctional Metasurface Lens With Tunable Focus Based on Phase Transition Material. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	6
268	Light Spin Angular Momentum Spatial Mode Converter Based on Dielectric Metasurface. <i>Journal of Lightwave Technology</i> , 2021, 39, 2438-2442.	2.7	6
269	Polarization selective Dove prism. <i>Optics Express</i> , 2021, 29, 14917.	1.7	1
270	Extraordinary spin to orbital angular momentum conversion on guided zone plates. <i>Scientific Reports</i> , 2021, 11, 8073.	1.6	2
271	Broadband generation of perfect Poincaré beams via dielectric spin-multiplexed metasurface. <i>Nature Communications</i> , 2021, 12, 2230.	5.8	119

#	ARTICLE	IF	CITATIONS
272	Highly Efficient Airy-Mode Silicon Metasurfaces for Visible Light Operation Embedded in a Protective Silica Layer. <i>Advanced Optical Materials</i> , 2021, 9, 2002209.	3.6	9
273	Multifunctional ultrathin reflective metasurface via polarization-decoupled phase for arbitrary circularly or elliptically polarized waves. <i>Optics Express</i> , 2021, 29, 12736.	1.7	6
274	Converged OAM vortex wave generation using EBG-loaded patch array antenna. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2021, 31, e22711.	0.8	3
275	Polarization induced reconfigurable multiple OAM vortex waves through a composite meta-surface beam former. <i>Optics Express</i> , 2021, 29, 20121.	1.7	3
276	Realization of doubly inhomogeneous waveplates for structuring of light beams. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 1909.	0.9	4
277	Nanophotonics for light detection and ranging technology. <i>Nature Nanotechnology</i> , 2021, 16, 508-524.	15.6	213
278	Optical trapping with structured light: a review. <i>Advanced Photonics</i> , 2021, 3, .	6.2	317
279	Arbitrary cylindrical vector beam generation enabled by polarization-selective Gouy phase shifter. <i>Photonics Research</i> , 2021, 9, 1048.	3.4	24
280	Scattering of Light with Orbital Angular Momentum from a Metallic Meta-Cylinder with Engineered Topological Charge. <i>ACS Photonics</i> , 2021, 8, 2027-2032.	3.2	10
281	Integrated pulse scope for tunable generation and intrinsic characterization of structured femtosecond laser. <i>Scientific Reports</i> , 2021, 11, 9670.	1.6	2
282	Arbitrary complex retarders using a sequence of spatial light modulators as the basis for adaptive polarisation compensation. <i>Journal of Optics (United Kingdom)</i> , 2021, 23, 065602.	1.0	14
283	Quad-channel independent wavefront encoding with dual-band multitasking metasurface. <i>Optics Express</i> , 2021, 29, 15678.	1.7	10
284	Topology-Induced Phase Transitions in Spin-Orbit Photonics. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000492.	4.4	55
285	High-Efficiency Spin-Related Vortex Metalenses. <i>Nanomaterials</i> , 2021, 11, 1485.	1.9	21
286	Metasurface of Combined Semicircular Rings with Orthogonal Slit Pairs for Generation of Dual Vector Beams. <i>Nanomaterials</i> , 2021, 11, 1718.	1.9	1
287	Thermal Metasurfaces: Complete Emission Control by Combining Local and Nonlocal Light-Matter Interactions. <i>Physical Review X</i> , 2021, 11, .	2.8	39
288	Fundamentals and applications of spin-decoupled Pancharatnam-Berry metasurfaces. <i>Frontiers of Optoelectronics</i> , 2021, 14, 134-147.	1.9	24
289	Dielectric metasurface zone plate for the generation of focusing vortex beams. <i>Photonix</i> , 2021, 2, .	5.5	39

#	ARTICLE	IF	CITATIONS
290	Quo Vadis, Metasurfaces?. Nano Letters, 2021, 21, 5461-5474.	4.5	129
291	Dynamic piezoelectric MEMS-based optical metasurfaces. Science Advances, 2021, 7, .	4.7	68
292	Measurement of topological charges of optical vortices by antiphased semicircular slit pair. New Journal of Physics, 2021, 23, 063020.	1.2	1
293	Mechanical and Self-Deformable Spatial Modulation Beam Steering and Splitting Metasurface. Advanced Optical Materials, 2021, 9, 2100821.	3.6	9
294	Preface to the special issue on "Recent Advances in Optical Metasurfaces". Frontiers of Optoelectronics, 2021, 14, 131-133.	1.9	3
295	Terahertz vortex beam generator based on bound states in the continuum. Optics Express, 2021, 29, 25270.	1.7	26
296	Enhanced detection techniques of orbital angular momentum states in the classical and quantum regimes. New Journal of Physics, 2021, 23, 073014.	1.2	11
298	Multiplexing Vectorial Holographic Images with Arbitrary Metaholograms. Advanced Optical Materials, 2021, 9, 2100626.	3.6	25
299	Orbital angular momentum generator with multiple retroreflection channels enabled by an angle-selective metasurface. Optics Express, 2021, 29, 25022.	1.7	4
300	Recent Advances in Generation and Detection of Orbital Angular Momentum Optical Beams" A Review. Sensors, 2021, 21, 4988.	2.1	46
301	Thermal aberrations and structured light I: analytical model for structured pumps and probes. Applied Physics B: Lasers and Optics, 2021, 127, 1.	1.1	4
302	Infrared metasurface-enabled compact polarization nanodevices. Materials Today, 2021, 50, 499-515.	8.3	47
303	Switchable imaging between edge-enhanced and bright-field based on a phase-change metasurface. Optics Letters, 2021, 46, 3741.	1.7	27
304	Giant enhancement of second-harmonic generation from a nanocavity metasurface. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	12
305	Multiple Longitudinal Polarization Vortices Generated via All-Silicon Metasurface. Annalen Der Physik, 2021, 533, 2100159.	0.9	3
306	Analog Optical Computing for Artificial Intelligence. Engineering, 2022, 10, 133-145.	3.2	32
307	Metasurfaces 2.0: Laser-integrated and with vector field control. APL Photonics, 2021, 6, 080902.	3.0	18
308	Single-Shot Three-Dimensional Orientation Imaging of Nanorods Using Spin to Orbital Angular Momentum Conversion. Nano Letters, 2021, 21, 7244-7251.	4.5	6

#	ARTICLE	IF	CITATIONS
309	Full-Color Holographic Display and Encryption with Full-Polarization Degree of Freedom. <i>Advanced Materials</i> , 2022, 34, e2103192.	11.1	85
310	The geometric phase in nonlinear frequency conversion. <i>Frontiers of Physics</i> , 2022, 17, 1.	2.4	29
311	Geometric Phase in Optics: From Wavefront Manipulation to Waveguiding. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100003.	4.4	44
312	On-demand light wave manipulation enabled by single-layer dielectric metasurfaces. <i>APL Photonics</i> , 2021, 6, .	3.0	8
313	Generalized and multiplexed q-plates emulated via an LCoS-based device. <i>Journal of Optics (United Kingdom)</i> , 2021, 10, 0100002.	1.0	2
314	All-dielectric metasurfaces capable of dual-channel complex amplitude modulation. <i>Nanophotonics</i> , 2021, 10, 2959-2968.	2.9	10
315	Electromagnetic Architectures: Structures, Properties, Functions and Their Intrinsic Relationships in Subwavelength Optics and Electromagnetics. <i>Advanced Photonics Research</i> , 2021, 2, 2100023.	1.7	9
316	Generating heralded single photons with a switchable orbital angular momentum mode. <i>Photonics Research</i> , 2021, 9, 1865.	3.4	2
317	Metasurface design for the generation of an arbitrary assembly of different polarization states. <i>Physical Review B</i> , 2021, 104, .	1.1	11
318	Spatially resolved birefringence measurements with a digital micro-mirror device. <i>Optics Express</i> , 2021, 29, 34616.	1.7	3
319	All-silicon chiral metasurfaces and wavefront shaping assisted by interference. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	2.0	18
320	Geometric control of vector vortex light beams via a linear coupling system. <i>Optics Express</i> , 2021, 29, 30694.	1.7	2
321	Flat distorting mirrors via metasurfaces. <i>Optics Letters</i> , 2021, 46, 4738.	1.7	1
322	Probing and Imaging Photonic Spin-Orbit Interactions in Nanostructures. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100011.	4.4	12
323	Arrangement of Micro Dielectric Particles With Vector Vortex Beam Generated by Dual-Helical Dielectric Cone. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-8.	1.9	3
324	Broadband Polarization-Switchable Multi-Focal Noninterleaved Metalenses in the Visible. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100198.	4.4	21
325	Terahertz wavefront shaping with multi-channel polarization conversion based on all-dielectric metasurface. <i>Photonics Research</i> , 2021, 9, 1939.	3.4	39
326	Actively Controlled Frequency-Agile Fano-Resonant Metasurface for Broadband and Unity Modulation. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	2

#	ARTICLE	IF	CITATIONS
327	Symmetric and asymmetric photonic spin-orbit interaction in metasurfaces. Progress in Quantum Electronics, 2021, 79, 100344.	3.5	16
328	Non-classical photonic spin texture of quantum structured light. Communications Physics, 2021, 4, .	2.0	10
329	Smithâ€Purcell radiation from helical grating to generate wideband vortex beams. Optics Letters, 2021, 46, 4682.	1.7	11
330	Dual-encryption freedom via a monolayer-nanotextured Janus metasurface in the broadband visible. Optics Express, 2021, 29, 33954.	1.7	14
331	Arbitrary Vortex Beam Synthesis With Donut-Shaped Metasurface. IEEE Transactions on Antennas and Propagation, 2022, 70, 573-584.	3.1	17
332	Metasurfaces for manipulating terahertz waves. Light Advanced Manufacturing, 2021, 2, 148.	2.2	61
333	Quantum communication with structured photons. , 2021, , 205-236.		1
334	High-purity orbital angular momentum states from a visible metasurface laser. , 2021, , .		0
335	Phase Manipulation of Electromagnetic Waves with Metasurfaces and Its Applications in Nanophotonics. Advanced Optical Materials, 2018, 6, 1800104.	3.6	103
336	Dual-Polarized Tri-Channel Encrypted Holography Based on Geometric Phase Metasurface. Advanced Photonics Research, 2020, 1, 2000022.	1.7	9
337	Independent Amplitude Control of Arbitrary Orthogonal States of Polarization via Dielectric Metasurfaces. Physical Review Letters, 2020, 125, 267402.	2.9	131
338	Angular momentum of optical modes in a silicon channel waveguide. Physical Review Research, 2020, 2, .	1.3	2
339	Purity and efficiency of hybrid orbital angular momentum-generating metasurfaces. Journal of Nanophotonics, 2020, 14, 1.	0.4	13
340	Generation and decomposition of scalar and vector modes carrying orbital angular momentum: a review. Optical Engineering, 2019, 59, 1.	0.5	29
341	Subwavelength interference of light on structured surfaces. Advances in Optics and Photonics, 2018, 10, 757.	12.1	76
342	Concepts in quantum state tomography and classical implementation with intense light: a tutorial. Advances in Optics and Photonics, 2019, 11, 67.	12.1	107
343	Large-area, single material metalens in the visible: An approach for mass-production using conventional semiconductor manufacturing techniques. , 2019, , .		2
344	Hybrid topological evolution of multi-singularity vortex beams: generalized nature for helical-Ince-Gaussian and Hermite-Laguerre-Gaussian modes. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, 578.	0.8	38

#	ARTICLE	IF	CITATIONS
345	Doubling the geometric phase of reflective Pancharatnam-Berry diffractive waveplates. Journal of the Optical Society of America B: Optical Physics, 2019, 36, D20.	0.9	3
346	Generation of an optical ball bearing facilitated by coupling between handedness of polarization of light and helicity of its phase. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 2087.	0.9	9
347	Dynamic phase control by rigid spiralized Fresnel zone plates. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 2785.	0.9	1
348	Polarization singular patterns in modal fields of few-mode optical fiber. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 2688.	0.9	6
349	Generation of structured light by multilevel orbital angular momentum holograms. Optics Express, 2019, 27, 6459.	1.7	23
350	Chip-integrated metasurface for versatile and multi-wavelength control of light couplings with independent phase and arbitrary polarization. Optics Express, 2019, 27, 16425.	1.7	33
351	Direct generation of red and orange optical vortex beams from an off-axis diode-pumped Pr ³⁺ :YLF laser. Optics Express, 2019, 27, 18190.	1.7	36
352	Multi-functional coding metasurface for dual-band independent electromagnetic wave control. Optics Express, 2019, 27, 19196.	1.7	24
353	Ultra-thin transmissive crystalline silicon high-contrast grating metasurfaces. Optics Express, 2019, 27, 30931.	1.7	4
354	Binary geometric phase metasurface for ultra-wideband microwave diffuse scatterings with optical transparency. Optics Express, 2020, 28, 12638.	1.7	25
355	Dual-band transmissive circular polarization generator with high angular stability. Optics Express, 2020, 28, 14995.	1.7	31
356	Full control of dual-band vortex beams using a high-efficiency single-layer bi-spectral 2-bit coding metasurface. Optics Express, 2020, 28, 17374.	1.7	42
357	Sector sandwich structure: an easy-to-manufacture way towards complex vector beam generation. Optics Express, 2020, 28, 27628.	1.7	11
358	Geometry phase for generating multiple focal points with different polarization states. Optics Express, 2020, 28, 28452.	1.7	9
359	Vortex generation in the spin-orbit interaction of a light beam propagating inside a uniaxial medium: origin and efficiency. Optics Express, 2020, 28, 27258.	1.7	29
360	Metasurface Beam Deflector Array on a 12-inch Glass Wafer. , 2020, , .		2
361	Snell-like and Fresnel-like formulas of the dual-phase-gradient metasurface. Optics Letters, 2020, 45, 2251.	1.7	7
362	Multi-foci metalens for terahertz polarization detection. Optics Letters, 2020, 45, 3506.	1.7	42

#	ARTICLE	IF	CITATIONS
363	High-performance terahertz vortex beam generator based on square-split-ring metasurfaces. Optics Letters, 2020, 45, 6054.	1.7	32
364	Polarization-multiplexed Huygens metasurface holography. Optics Letters, 2020, 45, 5488.	1.7	14
365	Spin-independent metalens for helicity-“multiplexing of converged vortices and cylindrical vector beams. Optics Letters, 2020, 45, 5941.	1.7	13
366	Orbit-induced localized spin angular momentum in the tight focusing of linearly polarized vortex beams. Optics Letters, 2018, 43, 5677.	1.7	36
367	In situ detection of a cooperative target’s longitudinal and angular speed using structured light. Optics Letters, 2019, 44, 3070.	1.7	56
368	Broadband high-efficiency multiple vortex beams generated by an interleaved geometric-phase multifunctional metasurface. Optical Materials Express, 2020, 10, 1531.	1.6	29
369	Nano-fabrication and characterization of silicon meta-surfaces provided with Pancharatnam-Berry effect. Optical Materials Express, 2019, 9, 1015.	1.6	8
370	Thermochemical writing with high spatial resolution on Ti films utilising picosecond laser. Optical Materials Express, 2019, 9, 2729.	1.6	9
371	Structured ray-wave vector vortex beams in multiple degrees of freedom from a laser. Optica, 2020, 7, 820.	4.8	82
372	Versatile on-chip light coupling and (de)multiplexing from arbitrary polarizations to controlled waveguide modes using an integrated dielectric metasurface. Photonics Research, 2020, 8, 564.	3.4	74
373	Complementary transmissive ultra-thin meta-deflectors for broadband polarization-independent refractions in the microwave region. Photonics Research, 2019, 7, 80.	3.4	127
374	Optical telescope with Cassegrain metasurfaces. Nanophotonics, 2020, 9, 3263-3269.	2.9	10
375	Broadband and high-efficiency accelerating beam generation by dielectric catenary metasurfaces. Nanophotonics, 2020, 9, 2829-2837.	2.9	23
376	Large-area metasurface on CMOS-compatible fabrication platform: driving flat optics from lab to fab. Nanophotonics, 2020, 9, 3071-3087.	2.9	54
377	Direct routing of intensity-editable multi-beams by dual geometric phase interference in metasurface. Nanophotonics, 2020, 9, 2977-2987.	2.9	27
378	All-dielectric metasurfaces for polarization manipulation: principles and emerging applications. Nanophotonics, 2020, 9, 3755-3780.	2.9	133
379	Titanium dioxide metasurface manipulating high-efficiency and broadband photonic spin Hall effect in visible regime. Nanophotonics, 2020, 9, 4327-4335.	2.9	24
380	Arbitrary polarization conversion for pure vortex generation with a single metasurface. Nanophotonics, 2020, 10, 727-732.	2.9	12

#	ARTICLE	IF	CITATIONS
381	Metasurfaces for biomedical applications: imaging and sensing from a nanophotonics perspective. <i>Nanophotonics</i> , 2020, 10, 259-293.	2.9	118
382	Machine learning-assisted global optimization of photonic devices. <i>Nanophotonics</i> , 2020, 10, 371-383.	2.9	74
383	Structuring Nonlinear Wavefront Emitted from Monolayer Transition-Metal Dichalcogenides. <i>Research</i> , 2020, 2020, 9085782.	2.8	40
384	Two-dimensional optical edge detection based on Pancharatnam-Berry phase metasurface. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020, 69, 014101.	0.2	7
385	Achiral Metasurfaces-Induced Circular Polarization Differential Transmittance. , 2021, , .		0
386	A perspective on twisted light from on-chip devices. <i>APL Photonics</i> , 2021, 6, .	3.0	14
387	Nanophotonic manipulation of optical angular momentum for high-dimensional information optics. <i>Advances in Optics and Photonics</i> , 2021, 13, 772.	12.1	26
388	Multidimensional phase singularities in nanophotonics. <i>Science</i> , 2021, 374, eabj0039.	6.0	108
389	Polarization-based transformations of linearly polarized quasi-Gaussian beams propagating in uniaxial crystals at an arbitrary angle. <i>Journal of Optics (United Kingdom)</i> , 2021, 23, 125606.	1.0	0
390	Filter-Assisted Metasurface for Full-Space Wavefront Manipulation and Energy Allocation. <i>ACS Applied Electronic Materials</i> , 2021, 3, 4465-4471.	2.0	5
391	Orbital angular momentum of light for communications. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	137
392	Displacement-targeted metasurfaces for dispersionless and full phase and polarization control. , 2018, , .		0
393	Micro-structured optical coatings: periodic-array enhanced functionalities. , 2018, , .		1
394	Analysis and application of vortex optical characteristics based on Michelson interference. , 2018, , .		0
395	Reconfigurable vortex beam generator based on the Fourier transformation principle. <i>Optics Express</i> , 2018, 26, 31880.	1.7	3
396	Generating a plasmonic vortex field with arbitrary topological charges and positions by meta-nanoslits. <i>Applied Optics</i> , 2019, 58, 833.	0.9	13
397	Spin-Controlled Beam Shaping with Catenary Subwavelength Structures. , 2019, , 41-92.		0
398	Reconfigurable mid-infrared optical elements using phase change materials. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
399	Engineering the chromatic dispersion in dual-wavelength metalenses for unpolarized visible light. , 2019, , .		0
400	High-efficiency, broadband all-dielectric transmission metasurface for optical vortex generation. Optical Materials Express, 2019, 9, 2699.	1.6	11
401	Metasurface Holography. Synthesis Lectures on Materials and Optics, 2020, 1, 1-76.	0.2	3
402	Optical spin-dependent beam separation in cyclic group symmetric metasurface. Nanophotonics, 2020, 9, 3459-3471.	2.9	5
403	Quadrant Fourier transform and its application in decoding OAM signals. Optics Letters, 2020, 45, 4428.	1.7	1
404	Nanophotonic Materials for Twisted Light Manipulation. Advanced Materials, 2023, 35, e2106692.	11.1	24
405	Structuring total angular momentum of light along the propagation direction with polarization-controlled meta-optics. Nature Communications, 2021, 12, 6249.	5.8	59
406	Full Complex Amplitude Modulation of Second Harmonic Generation with Nonlinear Metasurfaces. Laser and Photonics Reviews, 2021, 15, 2100207.	4.4	18
407	Cylindrical vector beam multiplexer/demultiplexer using off-axis polarization control. Light: Science and Applications, 2021, 10, 222.	7.7	60
408	Laser Thermochemical High-Contrast Recording on Thin Metal Films. Nanomaterials, 2021, 11, 67.	1.9	3
409	Asymmetric Harmonic Manipulation of Electromagnetic Wave by 2-bit Time-varying Coding Metasurface. , 2020, , .		1
410	Laser Beam Measurement and Characterization Techniques. , 2021, , 1885-1925.		0
411	New approaches to polarization optics and structured light with metasurfaces. , 2021, , .		0
412	Total Angular Momentum Management of Three Dimensional Vortices with a Single Plate. , 2020, , .		0
413	Spin-orbit interaction of a light beam under normal incidence at a sharp interface and its enhancement. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 034202.	0.2	3
414	Designer Structured Light with Metasurfaces. , 2020, , .		0
415	High purity twisted light from a metasurface solid state resonator. , 2020, , .		0
416	Flexible Multiplexing of High-order Poincaré Sphere Beams with Reflective Metasurface. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
417	A Metasurface Beam Combiner Based on the Control of Angular Response. <i>Photonics</i> , 2021, 8, 489.	0.9	5
418	Polarization in diffractive optics and metasurfaces. <i>Advances in Optics and Photonics</i> , 2021, 13, 836.	12.1	48
419	Spin-orbit Hall effect in the tight focusing of a radially polarized vortex beam. <i>Optics Express</i> , 2021, 29, 39419.	1.7	32
420	Electromagnetic focusing by zero orbital angular momentum system. <i>Applied Physics Letters</i> , 2021, 119, 181110.	1.5	0
421	Helicity-dependent continuous varifocal metalens based on bilayer dielectric metasurfaces. <i>Optics Express</i> , 2021, 29, 39461.	1.7	11
422	Vortex mode decomposition of the topology-induced phase transitions in spin-orbit optics. <i>Physical Review A</i> , 2021, 104, .	1.0	16
423	Broadband high-efficiency multiple vortex beams generated by an interleaved geometric-phase multifunctional metasurface. <i>Optical Materials Express</i> , 2020, 10, 1531.	1.6	8
424	Design of continuously variant metasurfaces for conformal transformation optics. <i>Optics Express</i> , 2020, 28, 34201.	1.7	9
425	Helicity-dependent metasurfaces employing receiver-transmitter meta-atoms for full-space wavefront manipulation. <i>Optics Express</i> , 2020, 28, 27575.	1.7	24
426	All-dielectric metasurface with multi-function in the near-infrared band. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020, 37, 1731.	0.8	2
427	Full-space polarization-regulated lightwave steering via single-layer metasurfaces. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 015102.	1.3	5
429	Roadmap on multimode light shaping. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 013001.	1.0	41
431	Design of Metasurface with Nanoslits on Elliptical Curves for Generation of Dual-Channel Vector Beams. <i>Nanomaterials</i> , 2021, 11, 3024.	1.9	1
432	Spin-Orbit Mapping of Light. <i>Physical Review Letters</i> , 2021, 127, 233901.	2.9	19
433	Spontaneous symmetry breaking in persistent currents of spinor polaritons. <i>Scientific Reports</i> , 2021, 11, 22382.	1.6	6
434	NIR-Responsive TiO ₂ Biometasurfaces: Toward In Situ Photodynamic Antibacterial Therapy for Biomedical Implants. <i>Advanced Materials</i> , 2022, 34, e2106314.	11.1	51
435	The generation of femtosecond optical vortex beams with megawatt powers directly from a fiber based Mamyshev oscillator. <i>Nanophotonics</i> , 2022, 11, 847-854.	2.9	16
436	Introducing Berry phase gradients along the optical path via propagation-dependent polarization transformations. <i>Nanophotonics</i> , 2022, 11, 713-725.	2.9	14

#	ARTICLE	IF	CITATIONS
437	Torus-knot angular momentum in twisted attosecond pulses from high-order harmonic generation. <i>Physical Review A</i> , 2021, 104, .	1.0	6
438	Multiplexed multi-focal and multi-dimensional SHE (spin Hall effect) metalens. <i>Optics Express</i> , 2021, 29, 43270.	1.7	23
439	Recent advances of wide-angle metalenses: principle, design, and applications. <i>Nanophotonics</i> , 2021, 11, 1-20.	2.9	44
440	A Metasurface Doublet for Compactly and Widely Zooming Imaging. , 2021, , .		0
441	Optical metasurfaces for generating and manipulating optical vortex beams. <i>Nanophotonics</i> , 2022, 11, 941-956.	2.9	63
442	Metasurface-assisted multidimensional manipulation of a light wave based on spin-decoupled complex amplitude modulation. <i>Optics Letters</i> , 2022, 47, 353.	1.7	8
443	Transmissive Metasurface for Independent Phase Control of Two Orthogonal Helicities. , 2020, , .		2
444	Spatial Separation of Scalar Light Beams with Orbital Angular Momentum Using a Phase Metasurface. <i>JETP Letters</i> , 2021, 114, 441-446.	0.4	2
445	Broadband high-efficiency polarization-encoded meta-holograms based on 3-bit spin-decoupled reflective meta-atoms. <i>Optics Express</i> , 2022, 30, 4249.	1.7	2
446	Generation of hyperentangled states and two-dimensional quantum walks using J or q plates and polarization beam splitters. <i>Physical Review A</i> , 2022, 105, .	1.0	6
447	Toward 3D-Printed Inverse-Designed Metaoptics. <i>ACS Photonics</i> , 2022, 9, 43-51.	3.2	23
448	Controllable Polarization-Insensitive and Large-Angle Beam Switching with Phase-Change Metasurfaces. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	7
449	Wireless Communication Utilizing Berry-Phase Carriers. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	2
450	Generation and characterization of complex vector modes with digital micromirror devices: a tutorial. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 034001.	1.0	11
451	Room-temperature on-chip orbital angular momentum single-photon sources. <i>Science Advances</i> , 2022, 8, eabk3075.	4.7	46
452	Emerging Long-Range Order from a Freeform Disordered Metasurface. <i>Advanced Materials</i> , 2022, 34, e2108709.	11.1	33
453	Multi-freedom metasurface empowered vectorial holography. <i>Nanophotonics</i> , 2022, 11, 1725-1739.	2.9	12
454	Shapeshifting Diffractive Optical Devices. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	21

#	ARTICLE	IF	CITATIONS
455	Exploitation of geometric and propagation phases for spin-dependent rational-multiple complete phase modulation using dielectric metasurfaces. <i>Photonics Research</i> , 2022, 10, 877.	3.4	10
456	All-Dielectric Metasurface-Enabled Multiple Vortex Emissions. <i>Advanced Materials</i> , 2022, 34, e2109255.	11.1	35
457	Active quasi-BIC optical vortex generators for ultrafast switching. <i>New Journal of Physics</i> , 2022, 24, 033002.	1.2	8
458	Photonic angular momentum: progress and perspectives. <i>Nanophotonics</i> , 2022, 11, 625-631.	2.9	11
459	Optical Fiber-Integrated Metasurfaces: An Emerging Platform for Multiple Optical Applications. <i>Nanomaterials</i> , 2022, 12, 793.	1.9	14
460	Quantum theory of photonic vortices and quantum statistics of twisted photons. <i>Physical Review A</i> , 2022, 105, .	1.0	3
461	Broadband Achromatic and Polarization Insensitive Focused Optical Vortex Generator Based on Metasurface Consisting of Anisotropic Nanostructures. <i>Frontiers in Physics</i> , 2022, 10, .	1.0	4
462	Controllable Polarization and Diffraction Modulated Multi-Functionality Based on Metasurface. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	17
463	All-Optical Polarization Manipulation Through Orbital Polarization Holography. <i>Frontiers in Physics</i> , 2022, 10, .	1.0	0
464	Quasi-bound states in the continuum-based switchable light-field manipulator. <i>Optical Materials Express</i> , 2022, 12, 1232.	1.6	3
465	Arbitrary manipulations of focused higher-order Poincaré beams by a Fresnel zone metasurface with alternate binary geometric and propagation phases. <i>Photonics Research</i> , 2022, 10, 1117.	3.4	7
466	An all-digital approach for versatile hybrid entanglement generation. <i>Journal of Optics (United Kingdom)</i> , 2022, 14, 1107.	1.0	3
467	Single-layer metalens for achromatic focusing with wide field of view in the visible range. <i>Journal of Optics: Applied Physics</i> , 2022, 55, 235106.	1.3	3
468	Photonic slide rule with metasurfaces. <i>Light: Science and Applications</i> , 2022, 11, 77.	7.7	5
469	Generation of vector beams with different polarization singularities based on metasurfaces. <i>New Journal of Physics</i> , 2022, 24, 043022.	1.2	15
470	Optical Vector Vortex Generation by Spherulites with Cylindrical Anisotropy. <i>Nano Letters</i> , 2022, 22, 2444-2449.	4.5	5
471	Planar wide-angle-imaging camera enabled by metalens array. <i>Optica</i> , 2022, 9, 431.	4.8	47
472	Advances on Solid-State Vortex Laser. <i>Photonics</i> , 2022, 9, 215.	0.9	8

#	ARTICLE	IF	CITATIONS
473	Thermalization of Light's Orbital Angular Momentum in Nonlinear Multimode Waveguide Systems. <i>Physical Review Letters</i> , 2022, 128, 123901.	2.9	12
474	Metamaterials and Metasurfaces: A Review from the Perspectives of Materials, Mechanisms and Advanced Metadevices. <i>Nanomaterials</i> , 2022, 12, 1027.	1.9	54
476	All-dielectric metasurface designs for spin-tunable beam splitting via simultaneous manipulation of propagation and geometric phases. <i>Optics Express</i> , 2022, 30, 13459.	1.7	9
477	Controlled transfer of transverse orbital angular momentum to optically trapped birefringent microparticles. <i>Nature Photonics</i> , 2022, 16, 346-351.	15.6	28
478	Nanostructured Spintronic Emitters for Polarization-Textured and Chiral Broadband THz Fields. <i>ACS Photonics</i> , 2022, 9, 1248-1255.	3.2	7
479	Ultracompact Nanophotonics: Light Emission and Manipulation with Metasurfaces. <i>Nanoscale Research Letters</i> , 2022, 17, 41.	3.1	9
480	Recent progress in metasurface-enabled optical waveplates. <i>Nanophotonics</i> , 2022, 11, 2219-2244.	2.9	39
481	Multiplexed Generation of Generalized Vortex Beams with On-Demand Intensity Profiles Based on Metasurfaces. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	25
482	Plasmonic metasurfaces manipulating the two spin components from spin-orbit interactions of light with lattice field generations. <i>Nanophotonics</i> , 2022, 11, 391-404.	2.9	2
483	Orbital angular momentum and beyond in free-space optical communications. <i>Nanophotonics</i> , 2022, 11, 645-680.	2.9	105
484	Ultrathin Spin-Decoupled Meta-Devices for Independent Control of Electromagnetic Waves With Dual-Orthogonal Circular Polarization. <i>Frontiers in Materials</i> , 2021, 8, .	1.2	4
485	High-Efficiency Full-Space Complex-Amplitude Metasurfaces Enabled by a Bi-Spectral Single-Substrate Layer Meta-Atom. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	15
486	High-Efficiency Phase and Polarization Modulation Metasurfaces. <i>Advanced Photonics Research</i> , 2022, 3, .	1.7	4
487	Additively Manufactured Multi-Material Ultrathin Metasurfaces for Broadband Circular Polarization Decoupled Beams and Orbital Angular Momentum Generation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 59460-59470.	4.0	19
488	Vortex laser arrays with topological charge control and self-healing of defects. <i>Nature Photonics</i> , 2022, 16, 359-365.	15.6	44
489	High-resolution optical orbital angular momentum sorter based on Archimedean spiral mapping. <i>Optics Express</i> , 2022, 30, 16330.	1.7	5
490	Simple method for generating special beams using polarization holography. <i>Optics Express</i> , 2022, 30, 16159.	1.7	4
491	Tunable structured light with flat optics. <i>Science</i> , 2022, 376, eabi6860.	6.0	147

#	ARTICLE	IF	CITATIONS
492	Spin-decoupled omnidirectional anomalous refraction based on a single metasurface. Applied Physics Letters, 2022, 120, 171701.	1.5	6
493	Nonseparable States of Light: From Quantum to Classical. Laser and Photonics Reviews, 2022, 16, .	4.4	52
494	All-Dielectric Trifunctional Metasurface Capable of Independent Amplitude and Phase Modulation. Laser and Photonics Reviews, 2022, 16, .	4.4	36
495	Vector optical field manipulation via structural functional materials: Tutorial. Journal of Applied Physics, 2022, 131, .	1.1	13
496	Deep-Learning Enabled Multicolor Meta-Holography. Advanced Optical Materials, 2022, 10, .	3.6	9
497	Nonlinear rotation of spin-orbit coupled states in hollow ring-core fibers. Optics Express, 2022, 30, 18481.	1.7	3
498	Vector beam generation based on spin-decoupling metasurface zone plate. Applied Physics Letters, 2022, 120, .	1.5	6
499	Broadband nanostructured fiber mode convertors enabled by inverse design. Optics Express, 2022, 30, 17625.	1.7	2
500	Enhancing the efficiency of the topological phase transitions in spin-orbit photonics. Applied Physics Letters, 2022, 120, .	1.5	6
501	Broadband spin-unlocked metasurfaces for bifunctional wavefront manipulations. Applied Physics Letters, 2022, 120, .	1.5	8
502	Terahertz mode switching of spin reflection and vortex beams based on graphene metasurfaces. Optics and Laser Technology, 2022, 153, 108278.	2.2	52
503	Dynamic Metasurface for Holographic Imaging. , 2022, , .		0
504	Active Meta-Device for Dual-Transmission Windows with Tunable Angular Dispersion Characteristics. Materials, 2022, 15, 3686.	1.3	0
505	Influence of Spatio-Temporal Couplings on Focused Optical Vortices. Photonics, 2022, 9, 389.	0.9	6
506	Quantum field theory for spin operator of the photon. Physical Review Research, 2022, 4, .	1.3	9
507	Metasurface-enhanced spatial mode decomposition. Physical Review A, 2022, 105, .	1.0	1
508	Spin Hall effect of fractional order radially polarized beam in its tight focusing. Optics Communications, 2022, 520, 128548.	1.0	6
509	Interactions between Plasmonic Nanoantennas and Vortex Beams. Nano Letters, 2022, 22, 5015-5021.	4.5	3

#	ARTICLE	IF	CITATIONS
510	Versatile Polarization Conversion and Wavefront Shaping Based on Fully Phase-Modulated Metasurface with Complex Amplitude Modulation. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	13
511	Reconfigurable Intelligent Surface for Regional Signal Enhancement. , 2021, , .		1
512	Intrinsic Vortex-“Antivortex Interaction of Light. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	4
513	Twisted light Michelson interferometer for high precision refractive index measurements. <i>Optics Express</i> , 2022, 30, 29722.	1.7	10
514	High-Resolution Programmable Metasurface Imager Based on Multilayer Perceptron Network. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	16
515	Engineering van der Waals Materials for Advanced Metaphotonics. <i>Chemical Reviews</i> , 2022, 122, 15204-15355.	23.0	33
516	A non-separability measure for spatially disjoint vectorial fields. <i>New Journal of Physics</i> , 2022, 24, 063032.	1.2	5
517	Twisted Rainbow Light and Nature-Inspired Generation of Vector Vortex Beams. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	4
518	Revealing the invariance of vectorial structured light in complex media. <i>Nature Photonics</i> , 2022, 16, 538-546.	15.6	39
519	Designing Highly Directional Luminescent Phased-Array Metasurfaces with Reciprocity-Based Simulations. <i>ACS Omega</i> , 2022, 7, 22477-22483.	1.6	3
520	Compact optically controlling the emission chirality of microlasers in single subwavelength particles supporting quasi-bound states in the continuum. <i>Optics Communications</i> , 2022, 522, 128655.	1.0	1
521	Design of broadband terahertz vector and vortex beams: I. Review of materials and components. , 2022, 3, 1.		11
522	Orbital angular momentum comb generation from azimuthal binary phases. , 2022, 1, .		18
523	Design of Dual-Functional Metaoptics for the Spin-Controlled Generation of Orbital Angular Momentum Beams. <i>Frontiers in Physics</i> , 0, 10, .	1.0	4
524	Orbital angular momentum optical communications enhanced by artificial intelligence. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 094003.	1.0	7
525	Spin-orbit-locked hyperbolic polariton vortices carrying reconfigurable topological charges. <i>ELight</i> , 2022, 2, .	11.9	49
526	A review of recent progress on directional metasurfaces: concept, design, and application. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 383001.	1.3	7
527	VO ₂ -enabled transmission-reflection switchable coding terahertz metamaterials. <i>Optics Express</i> , 2022, 30, 28829.	1.7	11

#	ARTICLE	IF	CITATIONS
528	Plasmonic vortices: a review. Journal of Optics (United Kingdom), 2022, 24, 084004.	1.0	12
529	Diffraction Nonlocal Metasurfaces. Laser and Photonics Reviews, 2022, 16, .	4.4	63
530	Towards higher-dimensional structured light. Light: Science and Applications, 2022, 11, .	7.7	148
531	Local angular momentum induced dual orbital effect. APL Photonics, 2022, 7, .	3.0	4
532	Spatial Coherence Manipulation on the Disorder-Engineered Statistical Photonic Platform. Nano Letters, 2022, 22, 6342-6349.	4.5	7
533	An achromatic metafiber for focusing and imaging across the entire telecommunication range. Nature Communications, 2022, 13, .	5.8	61
534	Enabling Active Nanotechnologies by Phase Transition: From Electronics, Photonics to Thermotics. Chemical Reviews, 2022, 122, 15450-15500.	23.0	14
535	Generating femtosecond visible doughnut beams based on transverse-mode modulation. Journal of Lightwave Technology, 2022, , 1-8.	2.7	2
536	Spin/Orbit Conversion in Dichroic Spherulite for Optical Vector Vortices Generation. , 2022, , .		0
537	Implementing achromatic diffractive waveplate optics with thin, uniformly birefringent layers. , 2022, , .		1
538	Control of an orbital angular momentum of a Gaussian beam using zero intensity lines. , 2022, , .		0
539	Full-space dual-helicity decoupled metasurface for a high-efficiency multi-folded reflective antenna. Optics Express, 2022, 30, 33613.	1.7	4
540	Generation of arbitrary vector Bessel beams on higher-order Poincaré spheres with an all-dielectric metasurface. Physical Review A, 2022, 106, .	1.0	5
541	Active Control of Interconversion of Spin and Orbital Angular Momentum of Light by a Scattering System. Physical Review Applied, 2022, 18, .	1.5	1
542	Noninterleaved Metasurface for Full-Polarization Three-Dimensional Vectorial Holography. Laser and Photonics Reviews, 2022, 16, .	4.4	24
543	Role of in-plane shift in reconstructing the photonic spin Hall effect. Optics Letters, 2022, 47, 4778.	1.7	2
544	Generating a multi-mode vortex beam based on spoof surface plasmon polaritons. Optics Letters, 2022, 47, 4459.	1.7	3
545	Single-Layer Bayer Metasurface via Inverse Design. ACS Photonics, 2022, 9, 2607-2613.	3.2	10

#	ARTICLE	IF	CITATIONS
546	Tunable Full-Color Vectorial Meta-Holography. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	11
547	3D-printing yields structured light. <i>Nature Photonics</i> , 2022, 16, 618-619.	15.6	1
548	Broadband devices for a polarization converter based on optical metasurfaces. <i>Applied Optics</i> , 2022, 61, 7119.	0.9	1
549	On-Chip Plasmonic Vortex Interferometers. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	12
550	Multiplexed vortex state array toward high-dimensional data multicasting. <i>Optics Express</i> , 2022, 30, 34053.	1.7	12
551	Design of a frequency-multiplexed metasurface with asymmetric transmission. <i>Optics Letters</i> , 2022, 47, 4504.	1.7	2
552	Enhanced spin-orbit coupling in an epsilon-near-zero material. <i>Optica</i> , 2022, 9, 1094.	4.8	4
553	Optical manipulation with metamaterial structures. <i>Applied Physics Reviews</i> , 2022, 9, .	5.5	57
554	Encoding Higher-Order Polarization States into Robust Partially Coherent Optical Beams. <i>Physical Review Applied</i> , 2022, 18, .	1.5	6
555	Phase Modulation Rules of Metasurface Holograms. <i>Synthesis Lectures on Materials and Optics</i> , 2020, , 13-27.	0.2	1
556	Metasurface Polarization Holography. <i>Synthesis Lectures on Materials and Optics</i> , 2020, , 29-40.	0.2	0
557	A THz Integrated Circuit Based on a Pixel Array to Mode Multiplex Two 10-Gbit/s QPSK Channels Each on a Different OAM Beam. <i>Journal of Lightwave Technology</i> , 2023, 41, 1095-1103.	2.7	7
558	High-dimensional entanglement generation based on a Pancharatnam-Berry phase metasurface. <i>Photonics Research</i> , 2022, 10, 2702.	3.4	6
559	Quantum metasurface holography. <i>Photonics Research</i> , 2022, 10, 2607.	3.4	3
560	Metasurface Measuring Twisted Light in Turbulence. <i>ACS Photonics</i> , 2022, 9, 3043-3051.	3.2	2
561	Continuous amplitude control of second harmonic waves from the metasurfaces through interference paths. <i>Applied Physics Letters</i> , 2022, 121, 111701.	1.5	1
562	Orbital angular momentum in optical manipulations. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 114001.	1.0	2
563	Polarization-independent 3D metasurface with complex amplitude modulation. <i>Optics Express</i> , 2022, 30, 37686.	1.7	4

#	ARTICLE	IF	CITATIONS
564	Revisiting the Design Strategies for Metasurfaces: Fundamental Physics, Optimization, and Beyond. <i>Advanced Materials</i> , 2023, 35, .	11.1	28
565	Optimization of Light Field for Generation of Vortex Knot. <i>Chinese Physics Letters</i> , 2022, 39, 104101.	1.3	2
566	Extended Metasurface Spin Functionalities from Rotation of Elements. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	1
567	Basis function approach for diffractive pattern generation with Dammann vortex metasurfaces. <i>Science Advances</i> , 2022, 8, .	4.7	18
568	Universal Metasurfaces for Complete Linear Control of Coherent Light Transmission. <i>Advanced Materials</i> , 2022, 34, .	11.1	13
569	Arbitrary-Order and Multichannel Optical Vortices with Simultaneous Amplitude and Phase Modulation on Plasmonic Metasurfaces. <i>Nanomaterials</i> , 2022, 12, 3476.	1.9	0
570	A Global Phase Modulation Mechanism for Flat Lens Design. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	3
571	Dual-channel geometric meta-holograms with complex-amplitude modulation based on bi-spectral single-substrate-layer meta-atoms. <i>Optics Express</i> , 2022, 30, 42850.	1.7	4
572	Nonresonant propagation phase based metasurface design for independent manipulation of dual circularly polarized waves. <i>Journal of Applied Physics</i> , 2022, 132, 163103.	1.1	0
573	Topology optimization of the azimuth-rotation-independent polarization conversion metasurface for bandwidth enhancement. <i>Optics Express</i> , 2022, 30, 41340.	1.7	6
574	Propagable Optical Vortices with Natural Noninteger Orbital Angular Momentum in Free Space. <i>Advanced Photonics Research</i> , 2023, 4, .	1.7	11
575	High purity orbital angular momentum of light. <i>Optics Express</i> , 2022, 30, 43513.	1.7	3
576	Manipulating Transverse Spin Angular Momentum with Symmetrically Modulated Hybridly Polarized Vector Optical Field. <i>Photonics</i> , 2022, 9, 817.	0.9	0
577	On anomalous optical beam shifts at near-normal incidence. <i>APL Photonics</i> , 2022, 7, .	3.0	8
578	Broadband and efficient asymmetric wavefront manipulation via terahertz polarization-selective metasurface. <i>Applied Physics Letters</i> , 2022, 121, .	1.5	4
579	Independent control of both amplitude and phase for orthogonal circularly polarized electromagnetic waves through polarization conversions. <i>Journal Physics D: Applied Physics</i> , 2023, 56, 015101.	1.3	2
580	Terahertz vortex beams generated by the ring-arranged multilayer transmissive metasurfaces. <i>Infrared Physics and Technology</i> , 2022, 127, 104441.	1.3	5
581	Enhancement of optical spin-orbit interactions in PT symmetric system. <i>Optics Express</i> , 0, , .	1.7	0

#	ARTICLE	IF	CITATIONS
582	Stokes polarimetry with Poincaré-Hopf index beams. <i>Optics and Lasers in Engineering</i> , 2023, 160, 107295.	2.0	1
583	Vectorial metasurface holography. <i>Applied Physics Reviews</i> , 2022, 9, .	5.5	40
584	Phase Off-Axis Modulation Metasurface for Orbital Angular Momentum Mode Multiplexing/Demultiplexing. <i>Journal of Lightwave Technology</i> , 2023, 41, 540-546.	2.7	2
585	Cholesteric liquid crystal-enabled electrically programmable metasurfaces for simultaneous near- and far-field displays. <i>Nanoscale</i> , 2022, 14, 17921-17928.	2.8	5
586	Advances in Orbital Angular Momentum Lasers. <i>Journal of Lightwave Technology</i> , 2023, 41, 2079-2086.	2.7	4
587	Highly Dispersive Optical Fiber for Orbital Angular Momentum Modes. <i>Journal of Lightwave Technology</i> , 2023, 41, 2051-2060.	2.7	0
588	Chiral Third-Harmonic Metasurface for Multiplexed Holograms. <i>Nano Letters</i> , 2022, 22, 8860-8866.	4.5	9
589	Bifunctional Integration Performed by a Broadband High-Efficiency Spin-Decoupled Metasurface. <i>Advanced Optical Materials</i> , 2023, 11, .	3.6	3
590	Metasurface Based Spin-Selective Wollaston- and Rochon-Prism-Like Circularly Polarized Beam Splitter. <i>Advanced Theory and Simulations</i> , 0, , 2200574.	1.3	0
591	Vortex Dynamics and Structured Darkness of Laguerre-Gaussian Beams Transmitted Through Q-Plates Under Weak Axial-Asymmetric Incidence. <i>Journal of Lightwave Technology</i> , 2023, 41, 2232-2239.	2.7	6
592	Orbital Angular Momentum Beams for High-Capacity Communications. <i>Journal of Lightwave Technology</i> , 2023, 41, 1918-1933.	2.7	17
593	Temperature-Adaptive reconfigurable chiral metamaterial for tailoring circular dichroism based on shape memory alloy. <i>Materials and Design</i> , 2023, 225, 111496.	3.3	4
594	Generation of single or multiple generalized vortex beams with irregular closed-loop intensity profiles. <i>Optik</i> , 2023, 273, 170424.	1.4	0
595	Orbital Angular Momentum in Fibers. <i>Journal of Lightwave Technology</i> , 2023, 41, 1934-1962.	2.7	4
596	Spin- and Space-Multiplexing Metasurface for Independent Phase Controls of Quadruplex Polarization Channels. <i>Advanced Optical Materials</i> , 2023, 11, .	3.6	4
597	Ultra-long quantum walks via spin-orbit photonics. <i>Optica</i> , 2023, 10, 324.	4.8	9
598	Optical realization of one-dimensional generalized split-step quantum walks. , 0, , .		1
599	Exotic Photonic Spin Hall Effect from a Chiral Interface. <i>Laser and Photonics Reviews</i> , 2023, 17, .	4.4	13

#	ARTICLE	IF	CITATIONS
600	Manipulation of Longitudinally Inhomogeneous Polarization States Empowered by All-Silicon Metasurfaces. <i>Advanced Optical Materials</i> , 2023, 11, .	3.6	9
601	Ultra-wideband two-dimensional Airy beam generation with an amplitude-tailorable metasurface. <i>Optics Express</i> , 2023, 31, 1330.	1.7	3
602	Fiber-integrated catenary ring-array metasurfaces for beam shaping. <i>Optics Letters</i> , 2023, 48, 25.	1.7	3
603	Fragmental optical vortex for the detection of rotating object based on the rotational Doppler effect. <i>Optics Express</i> , 2022, 30, 47350.	1.7	1
604	Multiplication and division of orbital angular momentum beams by Fermat's spiral transformation. <i>Photonics Research</i> , 2023, 11, 165.	3.4	2
605	Disorder-Induced Topological State Transition in the Optical Skyrmion Family. <i>Physical Review Letters</i> , 2022, 129, .	2.9	7
606	Mid-Infrared Continuous Varifocal Metalens with Adjustable Intensity Based on Phase Change Materials. <i>Photonics</i> , 2022, 9, 959.	0.9	2
608	The coupling of multi-channel optical vortices based on angular momentum conservation using a single-layer metal metasurface. <i>Europhysics Letters</i> , 2023, 141, 35001.	0.7	1
609	All-dielectric terahertz metasurfaces with dual-functional polarization manipulation for orthogonal polarization states. <i>Nanoscale</i> , 2023, 15, 2739-2746.	2.8	5
610	Temporal effect of the spin-to-orbit conversion in tightly focused femtosecond optical fields. <i>Optics Express</i> , 2023, 31, 5820.	1.7	2
611	Manipulation of continuous variable orbital angular momentum squeezing and entanglement by pump shaping. <i>Optics Express</i> , 0, , .	1.7	0
612	Deep-learning-assisted inverse design of dual-spin/frequency metasurface for quad-channel off-axis vortices multiplexing. , 2023, 2, .		7
613	Encoding arbitrary phase profiles to 2D diffraction orders with controllable polarization states. <i>Nanophotonics</i> , 2023, 12, 155-163.	2.9	9
614	Design of a dynamic multi-topological charge graphene orbital angular momentum metalens. <i>Optics Express</i> , 2023, 31, 2102.	1.7	2
615	Semiconductor lasers with integrated metasurfaces for direct output beam modulation, enabled by innovative fabrication methods. <i>Nanophotonics</i> , 2023, 12, 1443-1457.	2.9	4
616	Generation of Bessel beams with tunable longitudinal electric and magnetic fields using an all-dielectric metasurface. <i>Optics Letters</i> , 2023, 48, 920.	1.7	1
617	Quantitative detection of high-order Poincaré sphere beams and their polarization evolution. <i>Optics Express</i> , 2023, 31, 3017.	1.7	0
618	Shape memory alloy-based 3D morphologically reconfigurable chiral metamaterial for tailoring circular dichroism by voltage control. <i>Photonics Research</i> , 2023, 11, 373.	3.4	4

#	ARTICLE	IF	CITATIONS
619	Enhanced Forward-Looking Missile-Borne Bistatic SAR Imaging With Electromagnetic Vortex. IEEE Sensors Journal, 2023, 23, 8478-8490.	2.4	4
620	Radially and Azimuthally Pure Vortex Beams from Phase-Amplitude Metasurfaces. ACS Photonics, 2023, 10, 290-297.	3.2	0
621	Generating superposed terahertz perfect vortices via a spin-multiplexed all-dielectric metasurface. Photonics Research, 2023, 11, 431.	3.4	9
622	Dynamic Chiral Metasurfaces for Broadband Phase-Gradient Holographic Displays. Advanced Optical Materials, 2023, 11, .	3.6	18
623	Polarization and angular insensitive perfect metasurface absorber in near-ultraviolet region. Journal of Nanophotonics, 2023, 17, .	0.4	0
624	Metasurface-based polarization color routers. Optics and Lasers in Engineering, 2023, 163, 107472.	2.0	2
625	Decoupled Phase Modulation for Circularly Polarized Light via Chiral Metasurfaces. ACS Photonics, 2023, 10, 155-161.	3.2	5
626	Revisiting vortex generation in the spin-orbit interactions of refraction and focusing of light. Physical Review A, 2022, 106, .	1.0	3
627	Transformable Metasurfaces Enabled by Twisting Induced Nonlocality. Advanced Optical Materials, 2023, 11, .	3.6	2
628	Multiscale Optical Field Manipulation via Planar Digital Optics. ACS Photonics, 2023, 10, 2116-2127.	3.2	13
629	Recent progress on coherent computation based on quantum squeezing. AAPPS Bulletin, 2023, 33, .	2.7	17
630	Singular optics empowered by engineered optical materials. Nanophotonics, 2023, 12, 2687-2716.	2.9	4
631	Terahertz isotropic transmissive metasurfaces for generation of different wavefronts. Europhysics Letters, 2023, 141, 45001.	0.7	3
632	Toward Arbitrary Spin-Orbit Flat Optics Via Structured Geometric Phase Gratings. Laser and Photonics Reviews, 2023, 17, .	4.4	6
633	Quantum direct communication protocol using recurrence in k -cycle quantum walks. Physical Review A, 2023, 107, .	1.0	6
634	Coloured vortex beams with incoherent white light illumination. Nature Nanotechnology, 2023, 18, 264-272.	15.6	22
635	Co-Modulation of Spin Angular Momentum and High-Order Orbital Angular Momentum Based on Anisotropic Holographic Metasurfaces. IEEE Transactions on Antennas and Propagation, 2023, 71, 4594-4599.	3.1	9
636	Graphene-enabled metasurface with independent amplitude and frequency controls in orthogonal polarization channels. Carbon, 2023, 206, 260-267.	5.4	4

#	ARTICLE	IF	CITATIONS
637	Polarization-switchable focal vortex beam by an Archimedean array. Optics Express, 2023, 31, 9915.	1.7	1
638	Recent advanced applications of metasurfaces in multi-dimensions. Nanophotonics, 2023, 12, 2295-2315.	2.9	8
639	Stereo Jones Matrix Holography with Longitudinal Polarization Transformation. Laser and Photonics Reviews, 2023, 17, .	4.4	3
640	Regression of high-dimensional angular momentum states of light. Physical Review Research, 2023, 5, .	1.3	7
641	Enhancing and flattening multiplexed quantum entanglement by utilizing perfect vortex modes. Optics Letters, 2023, 48, 1782.	1.7	2
642	A Broadband Low-Profile Dual-Circularly Polarized Reflect-Array Based on a Single-Layer Microstrip Patch for Ka-Band Application. IEEE Transactions on Antennas and Propagation, 2023, 71, 4932-4940.	3.1	4
643	Modelling the effect of astigmatism on the beam quality factor of Laguerre-Gaussian optical beams.. , 2023, , .		0
644	Advances in Metaphotonics Empowered Single Photon Emission. Advanced Optical Materials, 2023, 11, .	3.6	10
645	Integrated circuits based on broadband pixel-array metasurfaces for generating data-carrying optical and THz orbital angular momentum beams. Nanophotonics, 2023, 12, 2669-2685.	2.9	2
646	Novel metrics for vector beams. , 2023, , .		2
647	Low-light-level spinâ€“orbit splitting via structured light cross-Kerr interaction in coherent atomic media. Communications in Theoretical Physics, 2023, 75, 045501.	1.1	1
648	Wavelength-adaptive optical angular momentum recognizer <i>via</i> programmable soft materials. Journal of Materials Chemistry C, 0, , .	2.7	0
649	Chirality-Assisted Phase Metasurface for Circular Polarization Preservation and Independent Hologram Imaging in Microwave Region. IEEE Transactions on Microwave Theory and Techniques, 2023, 71, 3259-3272.	2.9	33
650	Identification of orbital angular momentum using atom-based spatial self-phase modulation. Optics Express, 2023, 31, 13528.	1.7	1
651	Anapole-excited terahertz multifunctional spoof surface plasmon polariton directional Janus metastructures. Physical Chemistry Chemical Physics, 2023, 25, 11375-11386.	1.3	6
652	Quantum Imaging Exploiting Twisted Photon Pairs. Advanced Quantum Technologies, 2023, 6, .	1.8	1
653	Optical spinâ€“orbit interaction in spontaneous parametric downconversion. Optica, 2023, 10, 538.	4.8	4
654	Metasurface Optics With On-Axis Polarization Control for Terahertz Sensing Applications. IEEE Transactions on Terahertz Science and Technology, 2023, 13, 373-380.	2.0	0

#	ARTICLE	IF	CITATIONS
655	Extreme ultraviolet metalens by vacuum guiding. <i>Science</i> , 2023, 380, 59-63.	6.0	41
656	Meta-optics empowered vector visual cryptography for high security and rapid decryption. <i>Nature Communications</i> , 2023, 14, .	5.8	38
657	Generation and polarization analysis of vector perfect optical vortex. <i>Journal of Optics (India)</i> , 2024, 53, 223-230.	0.8	0
658	The appearance and annihilation of the spin angular momentum for the multi-polar vector optical field in the focal plane. <i>APL Photonics</i> , 0, , .	3.0	2
659	Design Strategies and Applications of Dimensional Optical Field Manipulation Based on Metasurfaces. <i>Advanced Materials</i> , 2023, 35, .	11.1	6
660	Longitudinal and Transverse Optical Beam Shifts Show Non-separability. <i>Laser and Photonics Reviews</i> , 2023, 17, .	4.4	1
661	Spin-isolated ultraviolet-visible dynamic meta-holographic displays with liquid crystal modulators. <i>Nanoscale Horizons</i> , 2023, 8, 759-766.	4.1	16
662	Multiple Rotational Doppler Effect Induced by a Single Spinning Meta-Atom. <i>Physical Review Applied</i> , 2023, 19, .	1.5	2
663	Characterization of Orbital Angular Momentum Quantum States Empowered by Metasurfaces. <i>Nano Letters</i> , 2023, 23, 3921-3928.	4.5	4
667	Ultra-Degree-of-Freedom Structured Light for Ultracapacity Information Carriers. <i>ACS Photonics</i> , 2023, 10, 2149-2164.	3.2	16
680	Single Photon Emitters with Polarization and Orbital Angular Momentum Locking in Monolayer Semiconductors. <i>Nano Letters</i> , 2023, 23, 3851-3857.	4.5	1
687	Multifunctional Metasurfaces Enabled by Multifold Geometric Phase Interference. <i>Nano Letters</i> , 2023, 23, 5019-5026.	4.5	3
691	Selective high-order resonance in asymmetric plasmonic nanostructures stimulated by vortex beams. <i>Nanoscale</i> , 2023, 15, 11860-11866.	2.8	0
698	Higher-order Bloch sphere: geometric representation of Larmor precession of the higher-order spin states. , 2022, , .		0
715	Applications of bound states in the continuum in photonics. <i>Nature Reviews Physics</i> , 2023, 5, 659-678.	11.9	6
725	Electron spin states on a higher-order Bloch sphere. , 2023, , .		0
729	Demultiplexing OAM beams via Fourier optical convolutional neural network. , 2023, , .		0
739	All-silicon metasurface-enabled non-coaxial superposition of vector vortex beams. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
741	Multifunctional all-dielectric nanosurfaces for generation and detection of focused optical vortices. , 2023, , .		0
765	Spin-decoupled bifunctional metasurface for THz wavefront manipulation. , 2023, , .		0
780	Broadband Generation of Dual Spin-Decoupled Beams by a Reception-to-Radiation Metasurface. , 2023, , .		0
793	Clustering of Laguerre-Gaussian beams. AIP Conference Proceedings, 2024, , .	0.3	0
814	Higher-Order Bloch Sphere: Geometric Representation of Larmor Precession of the Higher-Order Spin States. , 2022, , .		0
817	Full-Stokes Imaging Polarimetry Using Metasurfaces. , 2024, , 667-681.		0