

Huapeng Ye

List of Publications by Year in descending order

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57
papers

1,471
citations

304743

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all docs

57
docs citations

57
times ranked

1353
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization-free superoscillatory lens using phase and amplitude masks. <i>Laser and Photonics Reviews</i> , 2014, 8, 152-157.	8.7	149
2	Planar Diffractive Lenses: Fundamentals, Functionalities, and Applications. <i>Advanced Materials</i> , 2018, 30, e1704556.	21.0	105
3	Deep learning based atmospheric turbulence compensation for orbital angular momentum beam distortion and communication. <i>Optics Express</i> , 2019, 27, 16671.	3.4	96
4	Manipulation of acoustic focusing with an active and configurable planar metasurface transducer. <i>Scientific Reports</i> , 2014, 4, 6257.	3.3	81
5	Manipulating DC Currents with Bilayer Bulk Natural Materials. <i>Advanced Materials</i> , 2014, 26, 3478-3483.	21.0	68
6	All-Optical Signal Processing of Vortex Beams with Diffractive Deep Neural Networks. <i>Physical Review Applied</i> , 2021, 15, .	3.8	64
7	Cylindrical vector beam multiplexer/demultiplexer using off-axis polarization control. <i>Light: Science and Applications</i> , 2021, 10, 222.	16.6	60
8	Living Nanospear for Near-Field Optical Probing. <i>ACS Nano</i> , 2018, 12, 10703-10711.	14.6	54
9	Creation of a longitudinally polarized subwavelength hotspot with an ultra-thin planar lens: vectorial Rayleigh-Sommerfeld method. <i>Laser Physics Letters</i> , 2013, 10, 065004.	1.4	53
10	Twisted Focusing of Optical Vortices with Broadband Flat Spiral Zone Plates. <i>Advanced Optical Materials</i> , 2014, 2, 1193-1198.	7.3	50
11	Three-dimensional supercritical resolved light-induced magnetic holography. <i>Science Advances</i> , 2017, 3, e1701398.	10.3	46
12	All-Optical Signal Processing in Structured Light Multiplexing with Dielectric Meta-Optics. <i>ACS Photonics</i> , 2020, 7, 135-146.	6.6	46
13	Creation of vectorial bottle-hollow beam using radially or azimuthally polarized light. <i>Optics Letters</i> , 2014, 39, 630.	3.3	41
14	Thermochromic Cholesteric Liquid Crystal Microcapsules with Cellulose Nanocrystals and a Melamine Resin Hybrid Shell. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 4588-4597.	8.0	37
15	Theoretical realization of robust broadband transparency in ultrathin seamless nanostructures by dual blackbodies for near infrared light. <i>Nanoscale</i> , 2013, 5, 3373.	5.6	36
16	Convolutional Neural Network Based Atmospheric Turbulence Compensation for Optical Orbital Angular Momentum Multiplexing. <i>Journal of Lightwave Technology</i> , 2020, 38, 1712-1721.	4.6	36
17	Orbital angular momentum mode logical operation using optical diffractive neural network. <i>Photonics Research</i> , 2021, 9, 2116.	7.0	33
18	Switchable phase and polarization singular beams generation using dielectric metasurfaces. <i>Scientific Reports</i> , 2017, 7, 6814.	3.3	31

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19	Controllable photonic spin Hall effect with phase function construction. <i>Photonics Research</i> , 2020, 8, 963.	7.0	29
20	Optically induced atomic lattice with tunable near-field and far-field diffraction patterns. <i>Photonics Research</i> , 2017, 5, 676.	7.0	27
21	Black phosphorus: broadband nonlinear optical absorption and application. <i>Laser Physics Letters</i> , 2018, 15, 025301.	1.4	27
22	Detecting Orbital Angular Momentum Modes of Vortex Beams Using Feed-Forward Neural Network. <i>Journal of Lightwave Technology</i> , 2019, 37, 5848-5855.	4.6	24
23	Convolutional Neural Network-Assisted Optical Orbital Angular Momentum Recognition and Communication. <i>IEEE Access</i> , 2019, 7, 162025-162035.	4.2	24
24	Efficient and Tunable Photoinduced Honeycomb Lattice in an Atomic Ensemble. <i>Laser and Photonics Reviews</i> , 2018, 12, 1800050.	8.7	20
25	3D InGaN nanowire arrays on oblique pyramid-textured Si (311) for light trapping and solar water splitting enhancement. <i>Nano Energy</i> , 2021, 83, 105768.	16.0	19
26	Broadband graphene-on-silicon modulator with orthogonal hybrid plasmonic waveguides. <i>Nanophotonics</i> , 2020, 9, 1529-1538.	6.0	19
27	Diffraction Deep Neural Network for Optical Orbital Angular Momentum Multiplexing and Demultiplexing. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2022, 28, 1-11.	2.9	18
28	Identification of hybrid orbital angular momentum modes with deep feedforward neural network. <i>Results in Physics</i> , 2019, 15, 102790.	4.1	16
29	Orbital angular momentum deep multiplexing holography via an optical diffractive neural network. <i>Optics Express</i> , 2022, 30, 5569.	3.4	16
30	Cylindrical vector beam multiplexing for radio-over-fiber communication with dielectric metasurfaces. <i>Optics Express</i> , 2020, 28, 38666.	3.4	12
31	Coherent Separation Detection for Orbital Angular Momentum Multiplexing in Free-Space Optical Communications. <i>IEEE Photonics Journal</i> , 2017, 9, 1-11.	2.0	10
32	Design, Fabrication, and Applications of Liquid Crystal Microlenses. <i>Advanced Optical Materials</i> , 2021, 9, 2100370.	7.3	10
33	Nonreciprocal photonic spin Hall effect of magnetic Weyl semimetals. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	10
34	Theoretical realization of single-mode fiber integrated metalens for beam collimating. <i>Optics Express</i> , 2021, 29, 27521.	3.4	10
35	Metasurface Based Optical Orbital Angular Momentum Multiplexing for 100 GHz Radio Over Fiber Communication. <i>Journal of Lightwave Technology</i> , 2021, 39, 6159-6166.	4.6	10
36	Spatial phase and polarization retrieval of arbitrary circular symmetry singular light beams using orthogonal polarization separation. <i>Optics Express</i> , 2019, 27, 27282.	3.4	9

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37	Optical diffractive deep neural network-based orbital angular momentum mode add-drop multiplexer. Optics Express, 2021, 29, 36936.	3.4	9
38	Intrinsically shaping the focal behavior with multi-ring Bessel-Gaussian beam. Applied Physics Letters, 2017, 111, 031103.	3.3	8
39	Identification of optical orbital angular momentum modes with the Kerr nonlinearity of few-layer WS ₂ . 2D Materials, 2020, 7, 025012.	4.4	8
40	Neural network-based surrogate model for inverse design of metasurfaces. Photonics Research, 2022, 10, 1462.	7.0	8
41	Broadband Structured Light Multiplexing With Dielectric Meta-Optics. Journal of Lightwave Technology, 2021, 39, 2830-2836.	4.6	7
42	Optical orbital angular momentum shift-keying communication based on coherent demodulation. Optics Communications, 2019, 452, 405-410.	2.1	6
43	Cylindrical vector beam sorter with spin-dependent spiral transformation. Optics Letters, 2021, 46, 5563.	3.3	5
44	Optical Orbital Angular Momentum Shift-Keying Communication Using Direct Demodulation. IEEE Access, 2019, 7, 103433-103442.	4.2	4
45	Arbitrary Cylindrical Vector Beam Generation Using Cross-Polarized Modulation. IEEE Photonics Technology Letters, 2019, 31, 873-876.	2.5	3
46	Independently detect the spiral phase of cylindrical vector vortex beams. , 2017, , .		2
47	Two-Dimensional Material and Metasurface Based Optoelectronics. Advances in Condensed Matter Physics, 2019, 2019, 1-2.	1.1	2
48	Electrically controllable magneto-optic effects in a two-dimensional hexagonal organometallic lattice. Physical Review B, 2020, 101, .	3.2	2
49	Convolutional Neural Network to Identify Cylindrical Vector Beam Modes. IEEE Journal of Quantum Electronics, 2022, 58, 1-11.	1.9	2
50	Spatial phase retrieval of vortex beam using convolutional neural network. Journal of Optics (United Kingdom), 2022, 22, 022001.	2.2	2
51	Orbital angular momentum mode diversity gain in optical communication. Optics Express, 2022, 30, 27482.	3.4	2
52	Optical Orbital Angular Momentum Demultiplexing and Channel Equalization by Using Equalizing Dammann Vortex Grating. Advances in Condensed Matter Physics, 2017, 2017, 1-9.	1.1	1
53	Light-deformable dynamic surface fabricated by ink-jet printing. Soft Matter, 2021, 17, 748-757.	2.7	1
54	Intra-symbol frequency-domain averaging for turbulence mitigation in optical orbital angular momentum multiplexing. Optics Express, 2021, 29, 21056.	3.4	1

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55	Terahertz tunable optically induced lattice in the magnetized monolayer graphene. Optics Express, 2022, 30, 2852.	3.4	1
56	All-Optical Cross-Connection of Cylindrical Vector Beam Multiplexing Channels. Journal of Lightwave Technology, 2022, 40, 5070-5076.	4.6	1
57	Generation of hollow Gaussian beams by restoring structured light with meta-optics. Optics and Laser Technology, 2022, 153, 108197.	4.6	0