

Huapeng Ye

List of Publications by Year in descending order

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docs citations

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times ranked

1353
citing authors

#	ARTICLE	IF	CITATIONS
1	Diffractive Deep Neural Network for Optical Orbital Angular Momentum Multiplexing and Demultiplexing. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-11.	2.9	18
2	Convolutional Neural Network to Identify Cylindrical Vector Beam Modes. IEEE Journal of Quantum Electronics, 2022, 58, 1-11.	1.9	2
3	Spatial phase retrieval of vortex beam using convolutional neural network. Journal of Optics (United Kingdom), 2022, 22, 023001.	2.2	2
4	Terahertz tunable optically induced lattice in the magnetized monolayer graphene. Optics Express, 2022, 30, 2852.	3.4	1
5	Thermochromic Cholesteric Liquid Crystal Microcapsules with Cellulose Nanocrystals and a Melamine Resin Hybrid Shell. ACS Applied Materials & Interfaces, 2022, 14, 4588-4597.	8.0	37
6	Orbital angular momentum deep multiplexing holography via an optical diffractive neural network. Optics Express, 2022, 30, 5569.	3.4	16
7	All-Optical Cross-Connection of Cylindrical Vector Beam Multiplexing Channels. Journal of Lightwave Technology, 2022, 40, 5070-5076.	4.6	1
8	Neural network-based surrogate model for inverse design of metasurfaces. Photonics Research, 2022, 10, 1462.	7.0	8
9	Generation of hollow Gaussian beams by restoring structured light with meta-optics. Optics and Laser Technology, 2022, 153, 108197.	4.6	0
10	Orbital angular momentum mode diversity gain in optical communication. Optics Express, 2022, 30, 27482.	3.4	2
11	Light-deformable dynamic surface fabricated by ink-jet printing. Soft Matter, 2021, 17, 748-757.	2.7	1
12	All-Optical Signal Processing of Vortex Beams with Diffractive Deep Neural Networks. Physical Review Applied, 2021, 15, .	3.8	64
13	3D InGaN nanowire arrays on oblique pyramid-textured Si (311) for light trapping and solar water splitting enhancement. Nano Energy, 2021, 83, 105768.	16.0	19
14	Broadband Structured Light Multiplexing With Dielectric Meta-Optics. Journal of Lightwave Technology, 2021, 39, 2830-2836.	4.6	7
15	Intra-symbol frequency-domain averaging for turbulence mitigation in optical orbital angular momentum multiplexing. Optics Express, 2021, 29, 21056.	3.4	1
16	Design, Fabrication, and Applications of Liquid Crystal Microlenses. Advanced Optical Materials, 2021, 9, 2100370.	7.3	10
17	Nonreciprocal photonic spin Hall effect of magnetic Weyl semimetals. Applied Physics Letters, 2021, 119, .	3.3	10
18	Theoretical realization of single-mode fiber integrated metalens for beam collimating. Optics Express, 2021, 29, 27521.	3.4	10

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19	Orbital angular momentum mode logical operation using optical diffractive neural network. <i>Photonics Research</i> , 2021, 9, 2116.	7.0	33
20	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
21	Optical diffractive deep neural network-based orbital angular momentum mode add-drop multiplexer. <i>Optics Express</i> , 2021, 29, 36936.	3.4	9
22	Cylindrical vector beam sorter with spin-dependent spiral transformation. <i>Optics Letters</i> , 2021, 46, 5563.	3.3	5
23	Cylindrical vector beam multiplexer/demultiplexer using off-axis polarization control. <i>Light: Science and Applications</i> , 2021, 10, 222.	16.6	60
24	Identification of optical orbital angular momentum modes with the Kerr nonlinearity of few-layer WS ₂ . <i>2D Materials</i> , 2020, 7, 025012.	4.4	8
25	All-Optical Signal Processing in Structured Light Multiplexing with Dielectric Meta-Optics. <i>ACS Photonics</i> , 2020, 7, 135-146.	6.6	46
26	Electrically controllable magneto-optic effects in a two-dimensional hexagonal organometallic lattice. <i>Physical Review B</i> , 2020, 101, .	3.2	2
27	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
28	Cylindrical vector beam multiplexing for radio-over-fiber communication with dielectric metasurfaces. <i>Optics Express</i> , 2020, 28, 38666.	3.4	12
29	Controllable photonic spin Hall effect with phase function construction. <i>Photonics Research</i> , 2020, 8, 963.	7.0	29
30	Broadband graphene-on-silicon modulator with orthogonal hybrid plasmonic waveguides. <i>Nanophotonics</i> , 2020, 9, 1529-1538.	6.0	19
31	Arbitrary Cylindrical Vector Beam Generation Using Cross-Polarized Modulation. <i>IEEE Photonics Technology Letters</i> , 2019, 31, 873-876.	2.5	3
32	Optical Orbital Angular Momentum Shift-Keying Communication Using Direct Demodulation. <i>IEEE Access</i> , 2019, 7, 103433-103442.	4.2	4
33	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
34	Two-Dimensional Material and Metasurface Based Optoelectronics. <i>Advances in Condensed Matter Physics</i> , 2019, 2019, 1-2.	1.1	2
35	Optical orbital angular momentum shift-keying communication based on coherent demodulation. <i>Optics Communications</i> , 2019, 452, 405-410.	2.1	6
36	Convolutional Neural Network-Assisted Optical Orbital Angular Momentum Recognition and Communication. <i>IEEE Access</i> , 2019, 7, 162025-162035.	4.2	24

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37	Identification of hybrid orbital angular momentum modes with deep feedforward neural network. Results in Physics, 2019, 15, 102790.	4.1	16
38	Deep learning based atmospheric turbulence compensation for orbital angular momentum beam distortion and communication. Optics Express, 2019, 27, 16671.	3.4	96
39	Spatial phase and polarization retrieval of arbitrary circular symmetry singular light beams using orthogonal polarization separation. Optics Express, 2019, 27, 27282.	3.4	9
40	Black phosphorus: broadband nonlinear optical absorption and application. Laser Physics Letters, 2018, 15, 025301.	1.4	27
41	Planar Diffractive Lenses: Fundamentals, Functionalities, and Applications. Advanced Materials, 2018, 30, e1704556.	21.0	105
42	Living Nanospear for Near-Field Optical Probing. ACS Nano, 2018, 12, 10703-10711.	14.6	54
43	Efficient and Tunable Photoinduced Honeycomb Lattice in an Atomic Ensemble. Laser and Photonics Reviews, 2018, 12, 1800050.	8.7	20
44	Coherent Separation Detection for Orbital Angular Momentum Multiplexing in Free-Space Optical Communications. IEEE Photonics Journal, 2017, 9, 1-11.	2.0	10
45	Three-dimensional supercritical resolved light-induced magnetic holography. Science Advances, 2017, 3, e1701398.	10.3	46
46	Intrinsically shaping the focal behavior with multi-ring Bessel-Gaussian beam. Applied Physics Letters, 2017, 111, 031103.	3.3	8
47	Switchable phase and polarization singular beams generation using dielectric metasurfaces. Scientific Reports, 2017, 7, 6814.	3.3	31
48	Independently detect the spiral phase of cylindrical vector vortex beams. , 2017, , .		2
49	Optically induced atomic lattice with tunable near-field and far-field diffraction patterns. Photonics Research, 2017, 5, 676.	7.0	27
50	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
51	Manipulating DC Currents with Bilayer Bulk Natural Materials. Advanced Materials, 2014, 26, 3478-3483.	21.0	68
52	Creation of vectorial bottle-hollow beam using radially or azimuthally polarized light. Optics Letters, 2014, 39, 630.	3.3	41
53	Twisted Focusing of Optical Vortices with Broadband Flat Spiral Zone Plates. Advanced Optical Materials, 2014, 2, 1193-1198.	7.3	50
54	Optimization-free superoscillatory lens using phase and amplitude masks. Laser and Photonics Reviews, 2014, 8, 152-157.	8.7	149

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55	Manipulation of acoustic focusing with an active and configurable planar metasurface transducer. Scientific Reports, 2014, 4, 6257.	3.3	81
56	Creation of a longitudinally polarized subwavelength hotspot with an ultra-thin planar lens: vectorial Rayleigh-Sommerfeld method. Laser Physics Letters, 2013, 10, 065004.	1.4	53
57	Theoretical realization of robust broadband transparency in ultrathin seamless nanostructures by dual blackbodies for near infrared light. Nanoscale, 2013, 5, 3373.	5.6	36