

Yanliang He

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Deep learning based atmospheric turbulence compensation for orbital angular momentum beam distortion and communication. Optics Express, 2019, 27, 16671.	3.4	96
2	All-Optical Signal Processing of Vortex Beams with Diffractive Deep Neural Networks. Physical Review Applied, 2021, 15, .	3.8	64
3	Cylindrical vector beam multiplexer/demultiplexer using off-axis polarization control. Light: Science and Applications, 2021, 10, 222.	16.6	60
4	All-Optical Signal Processing in Structured Light Multiplexing with Dielectric Meta-Optics. ACS Photonics, 2020, 7, 135-146.	6.6	46
5	Complex Inverse Design of Meta-optics by Segmented Hierarchical Evolutionary Algorithm. ACS Nano, 2019, 13, 821-829.	14.6	40
6	Convolutional Neural Network Based Atmospheric Turbulence Compensation for Optical Orbital Angular Momentum Multiplexing. Journal of Lightwave Technology, 2020, 38, 1712-1721.	4.6	36
7	Orbital angular momentum mode logical operation using optical diffractive neural network. Photonics Research, 2021, 9, 2116.	7.0	33
8	Switchable phase and polarization singular beams generation using dielectric metasurfaces. Scientific Reports, 2017, 7, 6814.	3.3	31
9	Order-Controllable Cylindrical Vector Vortex Beam Generation by Using Spatial Light Modulator and Cascaded Metasurfaces. IEEE Photonics Journal, 2017, 9, 1-10.	2.0	29
10	Controllable photonic spin Hall effect with phase function construction. Photonics Research, 2020, 8, 963.	7.0	29
11	Black phosphorus: broadband nonlinear optical absorption and application. Laser Physics Letters, 2018, 15, 025301.	1.4	27
12	Detecting Orbital Angular Momentum Modes of Vortex Beams Using Feed-Forward Neural Network. Journal of Lightwave Technology, 2019, 37, 5848-5855.	4.6	24
13	Convolutional Neural Network-Assisted Optical Orbital Angular Momentum Recognition and Communication. IEEE Access, 2019, 7, 162025-162035.	4.2	24
14	Generation of arbitrary cylindrical vector vortex beams with cross-polarized modulation. Results in Physics, 2020, 19, 103455.	4.1	22
15	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
16	Identification of hybrid orbital angular momentum modes with deep feedforward neural network. Results in Physics, 2019, 15, 102790.	4.1	16
17	Orbital angular momentum deep multiplexing holography via an optical diffractive neural network. Optics Express, 2022, 30, 5569.	3.4	16
18	Coherent Separation Detection for Orbital Angular Momentum Multiplexing in Free-Space Optical Communications. IEEE Photonics Journal, 2017, 9, 1-11.	2.0	10

#	ARTICLE	IF	CITATIONS
19	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
20	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
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	A full-duplex 100-GHz radio-over-fiber communication system based on frequency quadrupling. <i>Optik</i> , 2018, 175, 148-153.	2.9	8
23	Orbital angular momentum modes identification of optical vortices using binaural circular aperture. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 065603.	2.2	8
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	Dielectric metasurface based polarization and orbital angular momentum demultiplexer. <i>Results in Physics</i> , 2021, 20, 103706.	4.1	7
26	Broadband Structured Light Multiplexing With Dielectric Meta-Optics. <i>Journal of Lightwave Technology</i> , 2021, 39, 2830-2836.	4.6	7
27	Optical orbital angular momentum shift-keying communication based on coherent demodulation. <i>Optics Communications</i> , 2019, 452, 405-410.	2.1	6
28	Modes coded modulation of vector light beams using spatial phase cross-polarized modulation. <i>Optics Communications</i> , 2019, 432, 59-64.	2.1	5
29	Cylindrical vector beam sorter with spin-dependent spiral transformation. <i>Optics Letters</i> , 2021, 46, 5563.	3.3	5
30	Submicrosecond Q-Switching Er-Doped All-Fiber Ring Laser Based on Black Phosphorus. <i>Advances in Condensed Matter Physics</i> , 2017, 2017, 1-4.	1.1	4
31	Optical Orbital Angular Momentum Shift-Keying Communication Using Direct Demodulation. <i>IEEE Access</i> , 2019, 7, 103433-103442.	4.2	4
32	Effective Generation of Milliwatt-Level Sub-Terahertz Wave for Nonlinear Response Measurement of Two-Dimensional Material by Optical Heterodyne Technique. <i>Advances in Condensed Matter Physics</i> , 2017, 2017, 1-9.	1.1	3
33	Arbitrary Cylindrical Vector Beam Generation Using Cross-Polarized Modulation. <i>IEEE Photonics Technology Letters</i> , 2019, 31, 873-876.	2.5	3
34	Independently detect the spiral phase of cylindrical vector vortex beams. , 2017, , .		2
35	Convolutional Neural Network to Identify Cylindrical Vector Beam Modes. <i>IEEE Journal of Quantum Electronics</i> , 2022, 58, 1-11.	1.9	2
36	Spatial phase retrieval of vortex beam using convolutional neural network. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 025601.	2.2	2

#	ARTICLE	IF	CITATIONS
37	Optical Orbital Angular Momentum Demultiplexing and Channel Equalization by Using Equalizing Dammann Vortex Grating. <i>Advances in Condensed Matter Physics</i> , 2017, 2017, 1-9.	1.1	1
38	Effectively Identifying the Topological Charge and Polarization Order of Arbitrary Singular Light Beams Based on Orthogonal Polarization Separating. <i>IEEE Photonics Journal</i> , 2019, 11, 1-8.	2.0	1
39	Recognition of fractional orbital angular momentum modes under scattering with transmission matrix. <i>Optics Communications</i> , 2022, 515, 128165.	2.1	1
40	Generating fast switchable optical vortices by beam combining. , 2017, , .		0
41	Generation of hollow Gaussian beams by restoring structured light with meta-optics. <i>Optics and Laser Technology</i> , 2022, 153, 108197.	4.6	0