Yiyu Zhou

List of Publications by Year in descending order

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29 papers	841 citations	567281 15 h-index	580821 25 g-index
29 all docs	29 docs citations	29 times ranked	661 citing authors

#	Article	IF	Citations
1	Broadband frequency translation through time refraction in an epsilon-near-zero material. Nature Communications, 2020, 11, 2180.	12.8	121
2	Sorting Photons by Radial Quantum Number. Physical Review Letters, 2017, 119, 263602.	7.8	97
3	Compensation-free high-dimensional free-space optical communication using turbulence-resilient vector beams. Nature Communications, 2021, 12, 1666.	12.8	86
4	Quantum-limited estimation of the axial separation of two incoherent point sources. Optica, 2019, 6, 534.	9.3	64
5	Digital spiral object identification using random light. Light: Science and Applications, 2017, 6, e17013-e17013.	16.6	47
6	Optimal measurements for quantum multiparameter estimation with general states. Physical Review A, 2019, 100, .	2.5	45
7	Turbulence-resilient pilot-assisted self-coherent free-space optical communications using automatic optoelectronic mixing of many modes. Nature Photonics, 2021, 15, 743-750.	31.4	45
8	Realization of a scalable Laguerreâ€“Gaussian mode sorter based on a robust radial mode sorter. Optics Express, 2018, 26, 33057.	3.4	38
9	Using all transverse degrees of freedom in quantum communications based on a generic mode sorter. Optics Express, 2019, 27, 10383.	3.4	33
10	Hermiteâ€“Gaussian mode sorter. Optics Letters, 2018, 43, 5263.	3.3	33
11	Adiabatic Frequency Conversion Using a Time-Varying Epsilon-Near-Zero Metasurface. Nano Letters, 2021, 21, 5907-5913.	9.1	30
12	High-fidelity spatial mode transmission through a 1-km-long multimode fiber via vectorial time reversal. Nature Communications, 2021, 12, 1866.	12.8	27
13	Experimental demonstration of superresolution of partially coherent light sources using parity sorting. Optics Express, 2021, 29, 22034.	3.4	27
14	Photon Acceleration Using a Time-Varying Epsilon-near-Zero Metasurface. ACS Photonics, 2021, 8, 716-720.	6.6	24
15	Performance of real-time adaptive optics compensation in a turbulent channel with high-dimensional spatial-mode encoding. Optics Express, 2020, 28, 15376.	3.4	21
16	High-dimensional quantum key distribution based on mutually partially unbiased bases. Physical Review A, 2020, 101, .	2.5	15
17	Confocal super-resolution microscopy based on a spatial mode sorter. Optics Express, 2021, 29, 11784.	3.4	13
18	Multiprobe Time Reversal for High-Fidelity Vortex-Mode-Division Multiplexing Over a Turbulent Free-Space Link. Physical Review Applied, 2021, 15, .	3.8	13

#	Article	IF	Citations
19	Direct Tomography of High-Dimensional Density Matrices for General Quantum States of Photons. Physical Review Letters, 2021, 127, 040402.	7.8	12
20	Single-Shot Direct Tomography of the Complete Transverse Amplitude, Phase, and Polarization Structure of a Light Field. Physical Review Applied, 2019, 12, .	3.8	11
21	Improved time-of-flight range acquisition technique in underwater lidar experiments. Applied Optics, 2015, 54, 5715.	2.1	9
22	Performance analysis of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>d</mml:mi></mml:math> -dimensional quantum cryptography under state-dependent diffraction. Physical Review A, 2019, 100, .	2.5	9
23	Distributed angular double-slit interference with pseudo-thermal light. Applied Physics Letters, 2017, 110, 071107.	3.3	6
24	Tunable Doppler shift using a time-varying epsilon-near-zero thin film near 1550â€‰â€‰nm. Optics Letters, 2021, 46, 3444.	3.3	6
25	Simultaneous turbulence mitigation and channel demultiplexing for two 100â€‰â€‰Gbit/s orbital-angular-momentum multiplexed beams by adaptive wavefront shaping and diffusing. Optics Letters, 2020, 45, 702.	3.3	6
26	Vectorial Phase Conjugation for High-Fidelity Mode Transmission Through Multimode Fiber. , 2020, , .		3
27	Experimental demonstration of superresolution of partially coherent light sources using parity sorting: erratum. Optics Express, 2021, 29, 35579.	3.4	0
28	Investigate the performance of real-time adaptive optics correction in a turbulent high-dimensional quantum communication channel. , 2020, , .		0
29	Nonlinear Response of ENZ Plasmon Modes near 1550 nm. , 2020, , .		0