

Angela Dudley

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,901
citations

257450

24
h-index

289244

40
g-index

58
all docs

58
docs citations

58
times ranked

2222
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled generation of higher-order Poincaré sphere beams from a laser. <i>Nature Photonics</i> , 2016, 10, 327-332.	31.4	482
2	Creation and detection of optical modes with spatial light modulators. <i>Advances in Optics and Photonics</i> , 2016, 8, 200.	25.5	479
3	Higher-dimensional orbital-angular-momentum-based quantum key distribution with mutually unbiased bases. <i>Physical Review A</i> , 2013, 88, .	2.5	264
4	Optical communication beyond orbital angular momentum. <i>Scientific Reports</i> , 2016, 6, 27674.	3.3	179
5	Generating superpositions of higher-order Bessel beams. <i>Optics Express</i> , 2009, 17, 23389.	3.4	170
6	Measurement of the orbital angular momentum density of light by modal decomposition. <i>New Journal of Physics</i> , 2013, 15, 073025.	2.9	105
7	Generating and measuring nondiffracting vector Bessel beams. <i>Optics Letters</i> , 2013, 38, 3429.	3.3	84
8	Azimuthal decomposition with digital holograms. <i>Optics Express</i> , 2012, 20, 10996.	3.4	83
9	Characterization of High-Dimensional Entangled Systems via Mutually Unbiased Measurements. <i>Physical Review Letters</i> , 2013, 110, 143601.	7.8	83
10	Accelerated rotation with orbital angular momentum modes. <i>Physical Review A</i> , 2015, 91, .	2.5	81
11	Poynting vector and orbital angular momentum density of superpositions of Bessel beams. <i>Optics Express</i> , 2011, 19, 16760.	3.4	77
12	Encoding information using Laguerre Gaussian modes over free space turbulence media. <i>Optics Letters</i> , 2016, 41, 3086.	3.3	76
13	Measuring the self-healing of the spatially inhomogeneous states of polarization of vector Bessel beams. <i>Journal of Optics (United Kingdom)</i> , 2015, 17, 035617.	2.2	64
14	Revealing the radial modes in vortex beams. <i>Applied Optics</i> , 2016, 55, 7830.	2.1	64
15	Efficient sorting of Bessel beams. <i>Optics Express</i> , 2013, 21, 165.	3.4	61
16	Robust interferometer for the routing of light beams carrying orbital angular momentum. <i>New Journal of Physics</i> , 2011, 13, 093014.	2.9	52
17	Measuring the rotation rates of superpositions of higher-order Bessel beams. <i>Journal of Modern Optics</i> , 2012, 59, 259-267.	1.3	51
18	All-digital wavefront sensing for structured light beams. <i>Optics Express</i> , 2014, 22, 14031.	3.4	50

#	ARTICLE	IF	CITATIONS
19	Free-space optical communication link with shape-invariant orbital angular momentum Bessel beams. Applied Optics, 2019, 58, 4258.	1.8	47
20	Tackling Africa's digital divide. Nature Photonics, 2018, 12, 249-252.	31.4	44
21	Controlling the evolution of nondiffracting speckle by complex amplitude modulation on a phase-only spatial light modulator. Optics Communications, 2012, 285, 5-12.	2.1	43
22	Quantitative measurement of the orbital angular momentum density of light. Applied Optics, 2012, 51, 823.	1.8	41
23	From stationary annular rings to rotating Bessel beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 567.	1.5	34
24	Digital Stokes polarimetry and its application to structured light: tutorial. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, C33.	1.5	28
25	White light wavefront control with a spatial light modulator. Optics Express, 2014, 22, 13870.	3.4	27
26	A versatile quantum walk resonator with bright classical light. PLoS ONE, 2019, 14, e0214891.	2.5	24
27	All-digital Stokes polarimetry with a digital micromirror device. Optics Letters, 2020, 45, 2319.	3.3	23
28	Reconstruction of laser beam wavefronts based on mode analysis. Applied Optics, 2013, 52, 5312.	1.8	21
29	Accelerating polarization structures in vectorial fields. Optics Express, 2021, 29, 2727.	3.4	12
30	Implementing digital holograms to create and measure complex-plane optical fields. American Journal of Physics, 2016, 84, 106-112.	0.7	10
31	Amplitude damping of Laguerre-Gaussian modes. Optics Express, 2010, 18, 22789.	3.4	8
32	Measurement of the orbital angular momentum density of Bessel beams by projection into a Laguerre-Gaussian basis. Applied Optics, 2014, 53, 5924.	1.8	6
33	Real and virtual propagation dynamics of angular accelerating white light beams. Optics Express, 2017, 25, 20530.	3.4	5
34	Digital toolbox for vector field characterization. Nanophotonics, 2022, 11, 753-761.	6.0	4
35	Spatially resolved birefringence measurements with a digital micro-mirror device. Optics Express, 2021, 29, 34616.	3.4	3
36	Optics in Africa: introduction. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, OIA1.	1.5	3

#	ARTICLE	IF	CITATIONS
37	Generating and analyzing non-diffracting vector vortex beams. , 2013, , .		2
38	Modal decomposition for measuring the orbital angular momentum density of light. Proceedings of SPIE, 2013, , .	0.8	2
39	Quantitatively measuring the orbital angular momentum density of light. , 2013, , .		2
40	Optical communications beyond orbital angular momentum. , 2016, , .		2
41	Superpositions of higher-order Bessel beams and nondiffracting speckle fields. Proceedings of SPIE, 2009, , .	0.8	1
42	Digital holograms for laser mode multiplexing. Proceedings of SPIE, 2014, , .	0.8	1
43	Angular accelerating white light. , 2015, , .		1
44	Multiplexing of spatial modes in the mid-IR region. , 2017, , .		1
45	Optics in Africa: introduction. Journal of the Optical Society of America B: Optical Physics, 2020, 37, OIA1.	2.1	1
46	The effect of spatial light modulator (SLM) dependent dispersion on spatial beam shaping. Proceedings of SPIE, 2013, , .	0.8	0
47	Techniques to sort Bessel beams. Proceedings of SPIE, 2013, , .	0.8	0
48	Wavefront sensing with all-digital Stokes measurements. Proceedings of SPIE, 2014, , .	0.8	0
49	Techniques to measure complex-plane fields. , 2014, , .		0
50	Encoding information using Laguerre Gaussian modes. Proceedings of SPIE, 2015, , .	0.8	0
51	Characterising laser beams with liquid crystal displays. , 2017, , .		0
52	Vectorial structures of light with acceleration and deceleration. , 2021, , .		0
53	Laser beam characterization with digital holograms. , 2013, , .		0
54	Free-space communication with over 100 spatial modes. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
55	Vortex beam characterization in terms of Hypergeometric-Gaussian modes. , 2016, , .		0
56	10.1119/1.4935354.1. , 2016, , .		0
57	Radial modes in phase-only twisted light beams. , 2017, , .		0
58	Towards non-classical walks with bright laser pulses. , 2017, , .		0