Angela Dudley

List of Publications by Year
in descending order

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58	2,901	257450	289244
papers	citations	24 h-index	40 g-index

58	58	58	2222
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Digital toolbox for vector field characterization. Nanophotonics, 2022, 11, 753-761.	6.0	4
2	Accelerating polarization structures in vectorial fields. Optics Express, 2021, 29, 2727.	3.4	12
3	Vectorial structures of light with acceleration and deceleration. , 2021, , .		0
4	Spatially resolved birefringence measurements with a digital micro-mirror device. Optics Express, 2021, 29, 34616.	3.4	3
5	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
6	Optics in Africa: introduction. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, OIA1.	1.5	3
7	All-digital Stokes polarimetry with a digital micromirror device. Optics Letters, 2020, 45, 2319.	3.3	23
8	Optics in Africa: introduction. Journal of the Optical Society of America B: Optical Physics, 2020, 37, OIA1.	2.1	1
9	A versatile quantum walk resonator with bright classical light. PLoS ONE, 2019, 14, e0214891.	2.5	24
10	Free-space optical communication link with shape-invariant orbital angular momentum Bessel beams. Applied Optics, 2019, 58, 4258.	1.8	47
11	Tackling Africaâ€™s digital divide. Nature Photonics, 2018, 12, 249-252.	31.4	44
12	Characterising laser beams with liquid crystal displays. , 2017, , .		0
13	Multiplexing of spatial modes in the mid-IR region. , 2017, , .		1
14	Real and virtual propagation dynamics of angular accelerating white light beams. Optics Express, 2017, 25, 20530.	3.4	5
15	Radial modes in phase-only twisted light beams. , 2017, , .		0
16	Towards non-classical walks with bright laser pulses. , 2017, , .		0
17	Revealing the radial modes in vortex beams. Applied Optics, 2016, 55, 7830.	2.1	64
18	Implementing digital holograms to create and measure complex-plane optical fields. American Journal of Physics, 2016, 84, 106-112.	0.7	10

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19	Creation and detection of optical modes with spatial light modulators. Advances in Optics and Photonics, 2016, 8, 200.	25.5	479
20	Optical communications beyond orbital angular momentum. , 2016, , .		2
21	Encoding information using Laguerre Gaussian modes over free space turbulence media. Optics Letters, 2016, 41, 3086.	3.3	76
22	Optical communication beyond orbital angular momentum. Scientific Reports, 2016, 6, 27674.	3.3	179
23	Controlled generation of higher-order PoincarÃ© sphere beams from a laser. Nature Photonics, 2016, 10, 327-332.	31.4	482
24	Free-space communication with over 100 spatial modes. , 2016, , .		0
25	Vortex beam characterization in terms of Hypergeometric-Gaussian modes. , 2016, , .		0
26	10.1119/1.4935354.1. , 2016, , .		0
27	Measuring the self-healing of the spatially inhomogeneous states of polarization of vector Bessel beams. Journal of Optics (United Kingdom), 2015, 17, 035617.	2.2	64
28	Accelerated rotation with orbital angular momentum modes. Physical Review A, 2015, 91, .	2.5	81
29	Angular accelerating white light. , 2015, , .		1
30	Encoding information using Laguerre Gaussian modes. Proceedings of SPIE, 2015, , .	0.8	0
31	Digital holograms for laser mode multiplexing. Proceedings of SPIE, 2014, , .	0.8	1
32	All-digital wavefront sensing for structured light beams. Optics Express, 2014, 22, 14031.	3.4	50
33	Wavefront sensing with all-digital Stokes measurements. Proceedings of SPIE, 2014, , .	0.8	0
34	Techniques to measure complex-plane fields. , 2014, , .		0
35	Measurement of the orbital angular momentum density of Bessel beams by projection into a Laguerreâ€“Gaussian basis. Applied Optics, 2014, 53, 5924.	1.8	6
36	White light wavefront control with a spatial light modulator. Optics Express, 2014, 22, 13870.	3.4	27

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37	Higher-dimensional orbital-angular-momentum-based quantum key distribution with mutually unbiased bases. Physical Review A, 2013, 88, .	2.5	264
38	Generating and analyzing non-diffracting vector vortex beams. , 2013, , .		2
39	Generating and measuring nondiffracting vector Bessel beams. Optics Letters, 2013, 38, 3429.	3.3	84
40	Efficient sorting of Bessel beams. Optics Express, 2013, 21, 165.	3.4	61
41	Characterization of High-Dimensional Entangled Systems via Mutually Unbiased Measurements. Physical Review Letters, 2013, 110, 143601.	7.8	83
42	Reconstruction of laser beam wavefronts based on mode analysis. Applied Optics, 2013, 52, 5312.	1.8	21
43	Modal decomposition for measuring the orbital angular momentum density of light. Proceedings of SPIE, 2013, , .	0.8	2
44	The effect of spatial light modulator (SLM) dependent dispersion on spatial beam shaping. Proceedings of SPIE, 2013, , .	0.8	0
45	Quantitatively measuring the orbital angular momentum density of light. , 2013, , .		2
46	Measurement of the orbital angular momentum density of light by modal decomposition. New Journal of Physics, 2013, 15, 073025.	2.9	105
47	Techniques to sort Bessel beams. Proceedings of SPIE, 2013, , .	0.8	0
48	Laser beam characterization with digital holograms. , 2013, , .		0
49	Azimuthal decomposition with digital holograms. Optics Express, 2012, 20, 10996.	3.4	83
50	Quantitative measurement of the orbital angular momentum density of light. Applied Optics, 2012, 51, 823.	1.8	41
51	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
52	Measuring the rotation rates of superpositions of higher-order Bessel beams. Journal of Modern Optics, 2012, 59, 259-267.	1.3	51
53	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
54	Robust interferometer for the routing of light beams carrying orbital angular momentum. New Journal of Physics, 2011, 13, 093014.	2.9	52

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55	Poynting vector and orbital angular momentum density of superpositions of Bessel beams. Optics Express, 2011, 19, 16760.	3.4	77
56	Amplitude damping of Laguerre-Gaussian modes. Optics Express, 2010, 18, 22789.	3.4	8
57	Generating superpositions of higherâ€“order Bessel beams. Optics Express, 2009, 17, 23389.	3.4	170
58	Superpositions of higher-order Bessel beams and nondiffracting speckle fields. Proceedings of SPIE, 2009, , .	0.8	1