

# Darryl Naidoo

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6115869/publications.pdf>

Version: 2024-02-01

44  
papers

1,451  
citations

623734

14  
h-index

477307

29  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1212  
citing authors

#	ARTICLE	IF	CITATIONS
1	Classically Entangled Vectorial Structured Light towards Multiple Degrees of Freedom and Higher Dimensions. , 2021, , .		2
2	Creation and control of high-dimensional multi-partite classically entangled light. Light: Science and Applications, 2021, 10, 50.	16.6	61
3	Reply to: Reconsidering metasurface lasers. Nature Photonics, 2021, 15, 339-340.	31.4	1
4	High-purity orbital angular momentum states from a visible metasurface laser. , 2021, , .		0
5	Astigmatic hybrid SU(2) vector vortex beams: towards versatile structures in longitudinally variant polarized optics. Optics Express, 2021, 29, 315.	3.4	22
6	SU(2) Poincaré sphere: A generalized representation for multidimensional structured light. Physical Review A, 2020, 102, .	2.5	51
7	High-purity orbital angular momentum states from a visible metasurface laser. Nature Photonics, 2020, 14, 498-503.	31.4	230
8	Structured ray-wave vector vortex beams in multiple degrees of freedom from a laser. Optica, 2020, 7, 820.	9.3	82
9	Fractal light from lasers. Physical Review A, 2019, 99, .	2.5	15
10	Amplification of higher order Poincaré sphere beams through Nd:YLF and Nd:YAG crystals. Applied Physics B: Lasers and Optics, 2019, 125, 1.	2.2	8
11	Amplification of higher-order Poincaré sphere beams. , 2019, , .		0
12	Purity of Vector Vortex Beams through a Birefringent Amplifier. Physical Review Applied, 2018, 9, .	3.8	19
13	Brightness enhancement in a solid-state laser by mode transformation. Optica, 2018, 5, 836.	9.3	18
14	Generation and amplification of vector vortex beams. , 2018, , .		1
15	A novel laser resonator for fractal modes. , 2018, , .		0
16	Cylindrical vector beams through amplifiers. , 2018, , .		1
17	Generation of fractal structured eigenmodes from lasers. , 2018, , .		0
18	Improving the laser brightness of a commercial laser system. Proceedings of SPIE, 2017, , .	0.8	0

#	ARTICLE	IF	CITATIONS
19	Characterising laser beams with liquid crystal displays. , 2017, , .		0
20	Controlled generation of higher-order Poincaré sphere beams from a laser. Nature Photonics, 2016, 10, 327-332.	31.4	482
21	Thermal lensing measurement from the coefficient of defocus aberration using Shack-Hartmann wavefront sensor. Proceedings of SPIE, 2016, , .	0.8	2
22	Emission of a propagation invariant flat-top beam from a microchip laser. Journal of Luminescence, 2016, 170, 750-754.	3.1	17
23	Scalar and Vector Vortex Beams from the Source. , 2016, , .		0
24	Generation of shape-invariant flat-top laser beams. Proceedings of SPIE, 2015, , .	0.8	1
25	Radially polarized cylindrical vector beams from a monolithic microchip laser. Optical Engineering, 2015, 54, 111304.	1.0	14
26	Selective excitation and detection of higher-order doughnut laser modes as an incoherent superposition of two petals modes in a digital laser resonator. , 2015, , .		2
27	Spatial superpositions of Gaussian beams. Proceedings of SPIE, 2014, , .	0.8	0
28	Expansion of student activities in Africa: from south to north. , 2014, , .		1
29	Laguerre Gaussian beam multiplexing through turbulence. Proceedings of SPIE, 2014, , .	0.8	1
30	Digital holograms for laser mode multiplexing. Proceedings of SPIE, 2014, , .	0.8	1
31	Controlling light's handedness inside laser resonators. , 2014, , .		0
32	Intra-cavity metamorphosis of a Gaussian beam to flat-top distribution. Proceedings of SPIE, 2014, , .	0.8	0
33	All-Digital Holographic Tool for Mode Excitation and Analysis in Optical Fibers. Journal of Lightwave Technology, 2013, 31, 1023-1032.	4.6	87
34	Spatial properties of coaxial superposition of two coherent Gaussian beams. Applied Optics, 2013, 52, 5766.	1.8	11
35	Mode analysis using the correlation filter method. , 2013, , .		5
36	Wavefront reconstruction by modal decomposition. Optics Express, 2012, 20, 19714.	3.4	90

#	ARTICLE	IF	CITATIONS
37	The generation of flat-top beams by complex amplitude modulation with a phase-only spatial light modulator. Proceedings of SPIE, 2012, , .	0.8	17
38	Mode analysis with a spatial light modulator as a correlation filter. Optics Letters, 2012, 37, 2478.	3.3	156
39	Observing mode propagation inside a laser cavity. New Journal of Physics, 2012, 14, 053021.	2.9	7
40	Intra-cavity decomposition of a dual-directional laser beam. Proceedings of SPIE, 2011, , .	0.8	0
41	Transverse correlation vanishing due to phase aberrations. Optics Communications, 2011, 284, 4601-4606.	2.1	3
42	Transverse mode selection in a monolithic microchip laser. Optics Communications, 2011, 284, 5475-5479.	2.1	36
43	Constructing petal modes from the coherent superposition of Laguerre-Gaussian modes. Proceedings of SPIE, 2011, , .	0.8	3
44	Intracavity vortex beam generation. Proceedings of SPIE, 2011, , .	0.8	1