

Miles J Padgett

List of Publications by Year in descending order

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573
papers

48,765
citations

1172

111
h-index

1934

207
g-index

584
all docs

584
docs citations

584
times ranked

16291
citing authors

#	ARTICLE	IF	CITATIONS
1	Orbital angular momentum: origins, behavior and applications. <i>Advances in Optics and Photonics</i> , 2011, 3, 161.	25.5	2,457
2	Free-space information transfer using light beams carrying orbital angular momentum. <i>Optics Express</i> , 2004, 12, 5448.	3.4	2,218
3	Tweezers with a twist. <i>Nature Photonics</i> , 2011, 5, 343-348.	31.4	1,678
4	Mechanical equivalence of spin and orbital angular momentum of light: an optical spanner. <i>Optics Letters</i> , 1997, 22, 52.	3.3	1,030
5	High-capacity millimetre-wave communications with orbital angular momentum multiplexing. <i>Nature Communications</i> , 2014, 5, 4876.	12.8	972
6	Measuring the Orbital Angular Momentum of a Single Photon. <i>Physical Review Letters</i> , 2002, 88, 257901.	7.8	902
7	Roadmap on structured light. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 013001.	2.2	888
8	IV The Orbital Angular Momentum of Light. <i>Progress in Optics</i> , 1999, 39, 291-372.	0.6	856
9	Efficient Sorting of Orbital Angular Momentum States of Light. <i>Physical Review Letters</i> , 2010, 105, 153601.	7.8	833
10	Detection of a Spinning Object Using Light's Orbital Angular Momentum. <i>Science</i> , 2013, 341, 537-540.	12.6	796
11	Advances in optical angular momentum. <i>Laser and Photonics Reviews</i> , 2008, 2, 299-313.	8.7	792
12	Intrinsic and Extrinsic Nature of the Orbital Angular Momentum of a Light Beam. <i>Physical Review Letters</i> , 2002, 88, 053601.	7.8	790
13	3D Computational Imaging with Single-Pixel Detectors. <i>Science</i> , 2013, 340, 844-847.	12.6	688
14	Light's Orbital Angular Momentum. <i>Physics Today</i> , 2004, 57, 35-40.	0.3	588
15	Orbital angular momentum 25 years on [Invited]. <i>Optics Express</i> , 2017, 25, 11265.	3.4	578
16	Chapter 5 Singular Optics: Optical Vortices and Polarization Singularities. <i>Progress in Optics</i> , 2009, 53, 293-363.	0.6	576
17	Experimental high-dimensional two-photon entanglement and violations of generalized Bell inequalities. <i>Nature Physics</i> , 2011, 7, 677-680.	16.7	528
18	Quantum Correlations in Optical Angle's Orbital Angular Momentum Variables. <i>Science</i> , 2010, 329, 662-665.	12.6	508

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19	Principles and prospects for single-pixel imaging. <i>Nature Photonics</i> , 2019, 13, 13-20.	31.4	491
20	High-dimensional quantum cryptography with twisted light. <i>New Journal of Physics</i> , 2015, 17, 033033.	2.9	475
21	100 Tbit/s free-space data link enabled by three-dimensional multiplexing of orbital angular momentum, polarization, and wavelength. <i>Optics Letters</i> , 2014, 39, 197.	3.3	443
22	Generation of a beam with a dark focus surrounded by regions of higher intensity: the optical bottle beam. <i>Optics Letters</i> , 2000, 25, 191.	3.3	415
23	The generation of free-space Laguerre-Gaussian modes at millimetre-wave frequencies by use of a spiral phaseplate. <i>Optics Communications</i> , 1996, 127, 183-188.	2.1	402
24	Single-pixel three-dimensional imaging with time-based depth resolution. <i>Nature Communications</i> , 2016, 7, 12010.	12.8	382
25	Isolated optical vortex knots. <i>Nature Physics</i> , 2010, 6, 118-121.	16.7	361
26	Lights, action: Optical tweezers. <i>Contemporary Physics</i> , 2002, 43, 241-258.	1.8	360
27	Poincaré-sphere equivalent for light beams containing orbital angular momentum. <i>Optics Letters</i> , 1999, 24, 430.	3.3	355
28	Second-harmonic generation and the orbital angular momentum of light. <i>Physical Review A</i> , 1996, 54, R3742-R3745.	2.5	348
29	Noninvasive, near-field terahertz imaging of hidden objects using a single-pixel detector. <i>Science Advances</i> , 2016, 2, e1600190.	10.3	336
30	Observation of the vortex structure of a non-integer vortex beam. <i>New Journal of Physics</i> , 2004, 6, 71-71.	2.9	329
31	Imaging with a small number of photons. <i>Nature Communications</i> , 2015, 6, 5913.	12.8	327
32	Normalized ghost imaging. <i>Optics Express</i> , 2012, 20, 16892.	3.4	305
33	Optical ferris wheel for ultracold atoms. <i>Optics Express</i> , 2007, 15, 8619.	3.4	300
34	Single-pixel infrared and visible microscope. <i>Optica</i> , 2014, 1, 285.	9.3	300
35	Interferometric Methods to Measure Orbital and Spin, or the Total Angular Momentum of a Single Photon. <i>Physical Review Letters</i> , 2004, 92, 013601.	7.8	297
36	Observation of the Transfer of the Local Angular Momentum Density of a Multiringed Light Beam to an Optically Trapped Particle. <i>Physical Review Letters</i> , 2003, 91, 093602.	7.8	293

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37	Rotational Frequency Shift of a Light Beam. <i>Physical Review Letters</i> , 1998, 81, 4828-4830.	7.8	285
38	The Poynting vector in Laguerre-Gaussian laser modes. <i>Optics Communications</i> , 1995, 121, 36-40.	2.1	273
39	Influence of atmospheric turbulence on optical communications using orbital angular momentum for encoding. <i>Optics Express</i> , 2012, 20, 13195.	3.4	272
40	The production of multiringed Laguerre-Gaussian modes by computer-generated holograms. <i>Journal of Modern Optics</i> , 1998, 45, 1231-1237.	1.3	269
41	Higher-dimensional orbital-angular-momentum-based quantum key distribution with mutually unbiased bases. <i>Physical Review A</i> , 2013, 88, .	2.5	264
42	Single-pixel imaging 12 years on: a review. <i>Optics Express</i> , 2020, 28, 28190.	3.4	263
43	Optical tweezers and optical spanners with Laguerre-Gaussian modes. <i>Journal of Modern Optics</i> , 1996, 43, 2485-2491.	1.3	259
44	Second-harmonic generation and the conservation of orbital angular momentum with high-order Laguerre-Gaussian modes. <i>Physical Review A</i> , 1997, 56, 4193-4196.	2.5	254
45	Optical trapping and binding. <i>Reports on Progress in Physics</i> , 2013, 76, 026401.	20.1	242
46	Measurement of the Rotational Frequency Shift Imparted to a Rotating Light Beam Possessing Orbital Angular Momentum. <i>Physical Review Letters</i> , 1998, 80, 3217-3219.	7.8	241
47	The Poynting vector in Laguerre-Gaussian beams and the interpretation of their angular momentum density. <i>Optics Communications</i> , 2000, 184, 67-71.	2.1	241
48	Atmospheric turbulence effects on the performance of a free space optical link employing orbital angular momentum multiplexing. <i>Optics Letters</i> , 2013, 38, 4062.	3.3	233
49	3D manipulation of particles into crystal structures using holographic optical tweezers. <i>Optics Express</i> , 2004, 12, 220.	3.4	230
50	Fast full-color computational imaging with single-pixel detectors. <i>Optics Express</i> , 2013, 21, 23068.	3.4	226
51	Simultaneous real-time visible and infrared video with single-pixel detectors. <i>Scientific Reports</i> , 2015, 5, 10669.	3.3	224
52	Holographic optical tweezers and their relevance to lab on chip devices. <i>Lab on A Chip</i> , 2011, 11, 1196.	6.0	223
53	An experiment to observe the intensity and phase structure of Laguerre-Gaussian laser modes. <i>American Journal of Physics</i> , 1996, 64, 77-82.	0.7	219
54	Uncertainty principle for angular position and angular momentum. <i>New Journal of Physics</i> , 2004, 6, 103-103.	2.9	219

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55	Light with a twist in its tail. <i>Contemporary Physics</i> , 2000, 41, 275-285.	1.8	216
56	Divergence of an orbital-angular-momentum-carrying beam upon propagation. <i>New Journal of Physics</i> , 2015, 17, 023011.	2.9	215
57	Vortex knots in light. <i>New Journal of Physics</i> , 2005, 7, 55-55.	2.9	214
58	Refractive elements for the measurement of the orbital angular momentum of a single photon. <i>Optics Express</i> , 2012, 20, 2110.	3.4	214
59	Imaging with quantum states of light. <i>Nature Reviews Physics</i> , 2019, 1, 367-380.	26.6	201
60	Imaging high-dimensional spatial entanglement with a camera. <i>Nature Communications</i> , 2012, 3, 984.	12.8	200
61	An optically driven pump for microfluidics. <i>Lab on A Chip</i> , 2006, 6, 735.	6.0	199
62	Measuring the accuracy of particle position and force in optical tweezers using high-speed video microscopy. <i>Optics Express</i> , 2008, 16, 14561.	3.4	199
63	Knotted threads of darkness. <i>Nature</i> , 2004, 432, 165-165.	27.8	198
64	Light beams with fractional orbital angular momentum and their vortex structure. <i>Optics Express</i> , 2008, 16, 993.	3.4	194
65	A Russian Dolls ordering of the Hadamard basis for compressive single-pixel imaging. <i>Scientific Reports</i> , 2017, 7, 3464.	3.3	193
66	Influence of atmospheric turbulence on states of light carrying orbital angular momentum. <i>Optics Letters</i> , 2012, 37, 3735.	3.3	192
67	Two-photon entanglement of orbital angular momentum states. <i>Physical Review A</i> , 2002, 65, .	2.5	191
68	Direct measurement of a 27-dimensional orbital-angular-momentum state vector. <i>Nature Communications</i> , 2014, 5, 3115.	12.8	187
69	Deep learning for real-time single-pixel video. <i>Scientific Reports</i> , 2018, 8, 2369.	3.3	187
70	Adaptive foveated single-pixel imaging with dynamic supersampling. <i>Science Advances</i> , 2017, 3, e1601782.	10.3	184
71	Holographic Ghost Imaging and the Violation of a Bell Inequality. <i>Physical Review Letters</i> , 2009, 103, 083602.	7.8	181
72	Assembly of 3-dimensional structures using programmable holographic optical tweezers. <i>Optics Express</i> , 2004, 12, 5475.	3.4	175

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73	An introduction to ghost imaging: quantum and classical. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160233.	3.4	172
74	Real-time imaging of methane gas leaks using a single-pixel camera. Optics Express, 2017, 25, 2998.	3.4	168
75	Performance of a cylindrical lens mode converter for producing Laguerre-Gaussian laser modes. Optics Communications, 1999, 159, 13-18.	2.1	162
76	Gaussian beams with very high orbital angular momentum. Optics Communications, 1997, 144, 210-213.	2.1	160
77	Topology of optical vortex lines formed by the interference of three, four, and five plane waves. Optics Express, 2006, 14, 3039.	3.4	158
78	Violation of a Bell inequality in two-dimensional orbital angular momentum state-spaces. Optics Express, 2009, 17, 8287.	3.4	155
79	1000 fps computational ghost imaging using LED-based structured illumination. Optics Express, 2018, 26, 2427.	3.4	152
80	Fourier relationship between angular position and optical orbital angular momentum. Optics Express, 2006, 14, 9071.	3.4	148
81	Interface between path and orbital angular momentum entanglement for high-dimensional photonic quantum information. Nature Communications, 2014, 5, 4502.	12.8	148
82	Optically controlled three-dimensional rotation of microscopic objects. Applied Physics Letters, 2003, 82, 829-831.	3.3	147
83	Free-space propagation of high-dimensional structured optical fields in an urban environment. Science Advances, 2017, 3, e1700552.	10.3	147
84	Rotational control within optical tweezers by use of a rotating aperture. Optics Letters, 2002, 27, 743.	3.3	146
85	Spin-orbit hybrid entanglement of photons and quantum contextuality. Physical Review A, 2010, 82, .	2.5	145
86	Development of a 3D printer using scanning projection stereolithography. Scientific Reports, 2015, 5, 9875.	3.3	145
87	Angular diffraction. New Journal of Physics, 2008, 10, 103013.	2.9	142
88	H ₂ S fluxes from Mt. Etna, Stromboli, and Vulcano (Italy) and implications for the sulfur budget at volcanoes. Geochimica Et Cosmochimica Acta, 2005, 69, 1861-1871.	3.9	139
89	Interactive application in holographic optical tweezers of a multi-plane Gerchberg-Saxton algorithm for three-dimensional light shaping. Optics Express, 2004, 12, 1665.	3.4	138
90	Microrheology with optical tweezers. Lab on A Chip, 2009, 9, 2568.	6.0	138

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91	Observation of the rotational Doppler shift of a white-light, orbital-angular-momentum-carrying beam backscattered from a rotating body. <i>Optica</i> , 2014, 1, 1.	9.3	138
92	Adaptive optics compensation of multiple orbital angular momentum beams propagating through emulated atmospheric turbulence. <i>Optics Letters</i> , 2014, 39, 2845.	3.3	138
93	Interactive approach to optical tweezers control. <i>Applied Optics</i> , 2006, 45, 897.	2.1	137
94	Comparison of FaxÅ©nâ€™s correction for a microsphere translating or rotating near a surface. <i>Physical Review E</i> , 2009, 79, 026301.	2.1	137
95	Holographic generation and orbital angular momentum of high-order Mathieu beams. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2002, 4, S52-S57.	1.4	135
96	Quantum-inspired computational imaging. <i>Science</i> , 2018, 361, .	12.6	134
97	Shape-induced force fields in optical trapping. <i>Nature Photonics</i> , 2014, 8, 400-405.	31.4	132
98	Improving the signal-to-noise ratio of single-pixel imaging using digital microscanning. <i>Optics Express</i> , 2016, 24, 10476.	3.4	132
99	Direct measurement of the skew angle of the Poynting vector in a helically phased beam. <i>Optics Express</i> , 2006, 14, 11919.	3.4	131
100	3D interferometric optical tweezers using a single spatial light modulator. <i>Optics Express</i> , 2005, 13, 3777.	3.4	130
101	Self-healing of quantum entanglement after an obstruction. <i>Nature Communications</i> , 2014, 5, 3248.	12.8	127
102	On the natures of the spin and orbital parts of optical angular momentum. <i>Journal of Optics (United Kingdom)</i> 10, 127.	5.2	127
103	Light-emitting diodes as measurement devices for femtosecond laser pulses. <i>Optics Letters</i> , 1997, 22, 233.	3.3	125
104	Spatially structured photons that travel in free space slower than the speed of light. <i>Science</i> , 2015, 347, 857-860.	12.6	124
105	Compressed sensing with near-field THz radiation. <i>Optica</i> , 2017, 4, 989.	9.3	124
106	Three-dimensional optical confinement of micron-sized metal particles and the decoupling of the spin and orbital angular momentum within an optical spanner. <i>Optics Communications</i> , 2000, 185, 139-143.	2.1	121
107	High throughput diffractive multi-beam femtosecond laser processing using a spatial light modulator. <i>Applied Surface Science</i> , 2008, 255, 2284-2289.	6.1	120
108	EPR-based ghost imaging using a single-photon-sensitive camera. <i>New Journal of Physics</i> , 2013, 15, 073032.	2.9	120

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109	Axial and lateral trapping efficiency of Laguerre-Gaussian modes in inverted optical tweezers. Optics Communications, 2001, 193, 45-50.	2.1	118
110	Ghost Imaging Using Optical Correlations. Laser and Photonics Reviews, 2018, 12, 1700143.	8.7	118
111	The generation of Bessel beams at millimetre-wave frequencies by use of an axicon. Optics Communications, 1999, 170, 213-215.	2.1	116
112	Optical tweezers with increased axial trapping efficiency. Journal of Modern Optics, 1998, 45, 1943-1949.	1.3	113
113	Entangled Bessel-Gaussian beams. Optics Express, 2012, 20, 23589.	3.4	112
114	Photon-sparse microscopy: visible light imaging using infrared illumination. Optica, 2015, 2, 1049.	9.3	109
115	An acoustic spanner and its associated rotational Doppler shift. New Journal of Physics, 2008, 10, 013018.	2.9	108
116	Concepts in quantum state tomography and classical implementation with intense light: a tutorial. Advances in Optics and Photonics, 2019, 11, 67.	25.5	107
117	Transfer of orbital angular momentum from a stressed fiber-optic waveguide to a light beam. Applied Optics, 1998, 37, 469.	2.1	106
118	An improved algorithm for locating a gas source using inverse methods. Atmospheric Environment, 2007, 41, 1128-1134.	4.1	106
119	Polarization Singularities in 2D and 3D Speckle Fields. Physical Review Letters, 2008, 100, 203902.	7.8	106
120	Parametric down-conversion for light beams possessing orbital angular momentum. Physical Review A, 1999, 59, 3950-3952.	2.5	105
121	Measurement of the light orbital angular momentum spectrum using an optical geometric transformation. Journal of Optics (United Kingdom), 2011, 13, 064006.	2.2	103
122	High-speed spatial control of the intensity, phase and polarisation of vector beams using a digital micro-mirror device. Optics Express, 2016, 24, 29269.	3.4	101
123	Rotary Photon Drag Enhanced by a Slow-Light Medium. Science, 2011, 333, 65-67.	12.6	100
124	Spiniform phase-encoded metagratings entangling arbitrary rational-order orbital angular momentum. Light: Science and Applications, 2018, 7, 17156-17156.	16.6	97
125	Comparison of a high-speed camera and a quadrant detector for measuring displacements in optical tweezers. Journal of Optics, 2007, 9, S264-S266.	1.5	95
126	Particle tracking stereomicroscopy in optical tweezers: Control of trap shape. Optics Express, 2010, 18, 11785.	3.4	95

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127	Comparison of nematic liquid-crystal and DMD based spatial light modulation in complex photonics. Optics Express, 2017, 25, 29874.	3.4	95
128	Optical Activity in Twisted Solid-Core Photonic Crystal Fibers. Physical Review Letters, 2013, 110, 143903.	7.8	94
129	Observation of chromatic effects near a white-light vortex. New Journal of Physics, 2003, 5, 154-154.	2.9	93
130	Generation of achromatic Bessel beams using a compensated spatial light modulator. Optics Express, 2006, 14, 5581.	3.4	92
131	Optical orbital angular momentum. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20150444.	3.4	92
132	Creating permanent 3D arrangements of isolated cells using holographic optical tweezers. Lab on A Chip, 2005, 5, 1224.	6.0	91
133	Speeding up liquid crystal SLMs using overdrive with phase change reduction. Optics Express, 2013, 21, 1779.	3.4	91
134	Increasing the dimension in high-dimensional two-photon orbital angular momentum entanglement. Physical Review A, 2012, 86, .	2.5	90
135	Imaging through noise with quantum illumination. Science Advances, 2020, 6, eaay2652.	10.3	90
136	“Red Tweezers”: Fast, customisable hologram generation for optical tweezers. Computer Physics Communications, 2014, 185, 268-273.	7.5	88
137	Precision Assembly of Complex Cellular Microenvironments using Holographic Optical Tweezers. Scientific Reports, 2015, 5, 8577.	3.3	88
138	Dove prisms and polarized light. Journal of Modern Optics, 1999, 46, 175-179.	1.3	87
139	Fractality of Light’s Darkness. Physical Review Letters, 2008, 100, 053902.	7.8	86
140	Aberration correction in holographic optical tweezers. Optics Express, 2006, 14, 4169.	3.4	85
141	Exploring the quantum nature of the radial degree of freedom of a photon via Hong-Ou-Mandel interference. Physical Review A, 2014, 89, .	2.5	85
142	Orbital angular momentum exchange in cylindrical-lens mode converters. Journal of Optics B: Quantum and Semiclassical Optics, 2002, 4, S17-S19.	1.4	83
143	Characterization of High-Dimensional Entangled Systems via Mutually Unbiased Measurements. Physical Review Letters, 2013, 110, 143601.	7.8	83
144	Limitations to the determination of a Laguerre-Gauss spectrum via projective, phase-flattening measurement. Journal of the Optical Society of America B: Optical Physics, 2014, 31, A20.	2.1	82

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145	Precise quantum tomography of photon pairs with entangled orbital angular momentum. <i>New Journal of Physics</i> , 2009, 11, 103024.	2.9	81
146	Sharing a Common Origin Between the Rotational and Linear Doppler Effects. <i>Laser and Photonics Reviews</i> , 2017, 11, 1700183.	8.7	81
147	Efficient measurement of an optical orbital-angular-momentum spectrum comprising more than 50 states. <i>New Journal of Physics</i> , 2013, 15, 013024.	2.9	80
148	Real-time measurement of volcanic H ₂ S and SO ₂ concentrations by UV spectroscopy. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	79
149	Increasing trap stiffness with position clamping in holographic optical tweezers. <i>Optics Express</i> , 2009, 17, 22718.	3.4	79
150	An optically actuated surface scanning probe. <i>Optics Express</i> , 2012, 20, 29679.	3.4	78
151	Defining the trapping limits of holographical optical tweezers. <i>Journal of Modern Optics</i> , 2004, 51, 409-414.	1.3	77
152	Three-dimensional parallel holographic micropatterning using a spatial light modulator. <i>Optics Express</i> , 2008, 16, 15942.	3.4	77
153	Surface imaging using holographic optical tweezers. <i>Nanotechnology</i> , 2011, 22, 285503.	2.6	76
154	An optical trapped microhand for manipulating micron-sized objects. <i>Optics Express</i> , 2006, 14, 12497.	3.4	75
155	Measuring storage and loss moduli using optical tweezers: Broadband microrheology. <i>Physical Review E</i> , 2010, 81, 026308.	2.1	75
156	Measuring orbital angular momentum superpositions of light by mode transformation. <i>Optics Letters</i> , 2011, 36, 1863.	3.3	73
157	Touching the microworld with force-feedback optical tweezers. <i>Optics Express</i> , 2009, 17, 10259.	3.4	72
158	A static Fourier transform spectrometer based on Wollaston prisms. <i>Review of Scientific Instruments</i> , 1995, 66, 2807-2811.	1.3	71
159	Measuring the orbital angular momentum spectrum of an electron beam. <i>Nature Communications</i> , 2017, 8, 15536.	12.8	71
160	Mathieu beams as versatile light moulds for 3D micro particle assemblies. <i>Optics Express</i> , 2010, 18, 26084.	3.4	70
161	Time-of-flight 3D imaging through multimode optical fibers. <i>Science</i> , 2021, 374, 1395-1399.	12.6	66
162	Application of laser spectroscopy for measurement of exhaled ethane in patients with lung cancer. <i>Respiratory Medicine</i> , 2006, 100, 300-306.	2.9	65

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163	An SLM-based Shack-Hartmann wavefront sensor for aberration correction in optical tweezers. <i>Journal of Optics (United Kingdom)</i> , 2010, 12, 124004.	2.2	65
164	Optical tweezers: wideband microrheology. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 044022.	2.2	65
165	Multipoint Holographic Optical Velocimetry in Microfluidic Systems. <i>Physical Review Letters</i> , 2006, 96, 134502.	7.8	64
166	Entanglement of arbitrary superpositions of modes within two-dimensional orbital angular momentum state spaces. <i>Physical Review A</i> , 2010, 81, .	2.5	64
167	Topology of Light's Darkness. <i>Physical Review Letters</i> , 2009, 102, 143902.	7.8	62
168	Matrix formulation for the propagation of light beams with orbital and spin angular momenta. <i>Physical Review E</i> , 1999, 60, 7497-7503.	2.1	61
169	Efficient sorting of Bessel beams. <i>Optics Express</i> , 2013, 21, 165.	3.4	61
170	Parametric Resonance of Optically Trapped Aerosols. <i>Physical Review Letters</i> , 2007, 99, 010601.	7.8	60
171	Single-pulse, Fourier-transform spectrometer having no moving parts. <i>Applied Optics</i> , 1994, 33, 6035.	2.1	57
172	3D single-pixel video. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 035203.	2.2	57
173	Independent polarisation control of multiple optical traps. <i>Optics Express</i> , 2008, 16, 15897.	3.4	56
174	Fourier relationship between the angle and angular momentum of entangled photons. <i>Physical Review A</i> , 2008, 78, .	2.5	56
175	Observation of quantum entanglement using spatial light modulators. <i>Optics Express</i> , 2006, 14, 13089.	3.4	55
176	Assembly and force measurement with SPM-like probes in holographic optical tweezers. <i>New Journal of Physics</i> , 2009, 11, 023012.	2.9	55
177	Hands-on with optical tweezers: a multitouch interface for holographic optical trapping. <i>Optics Express</i> , 2009, 17, 3595.	3.4	55
178	Entangled Optical Vortex Links. <i>Physical Review Letters</i> , 2011, 106, 100407.	7.8	55
179	Aberration correction in holographic optical tweezers. <i>Optics Express</i> , 2006, 14, 4170.	3.4	54
180	Rotational Doppler velocimetry to probe the angular velocity of spinning microparticles. <i>Physical Review A</i> , 2014, 90, .	2.5	54

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181	The angular momentum of light inside a dielectric. <i>Journal of Modern Optics</i> , 2003, 50, 1555-1562.	1.3	53
182	Limit to the orbital angular momentum per unit energy in a light beam that can be focussed onto a small particle. <i>Optics Communications</i> , 2000, 173, 269-274.	2.1	52
183	Robust interferometer for the routing of light beams carrying orbital angular momentum. <i>New Journal of Physics</i> , 2011, 13, 093014.	2.9	52
184	Continuous-wave, dual-cavity, doubly resonant, optical parametric oscillator. <i>Applied Physics Letters</i> , 1994, 64, 1490-1492.	3.3	51
185	Resolution limits of quantum ghost imaging. <i>Optics Express</i> , 2018, 26, 7528.	3.4	51
186	Characterisation of spatial and temporal changes in pH gradients in microfluidic channels using optically trapped fluorescent sensors. <i>Lab on A Chip</i> , 2006, 6, 788.	6.0	50
187	Polarization and image rotation induced by a rotating dielectric rod: an optical angular momentum interpretation. <i>Optics Letters</i> , 2006, 31, 2205.	3.3	50
188	Efficiency of second-harmonic generation with Bessel beams. <i>Physical Review A</i> , 1999, 60, 2438-2441.	2.5	49
189	Simplified measurement of the orbital angular momentum of single photons. <i>Optics Communications</i> , 2003, 223, 117-122.	2.1	49
190	Eigenmodes of a hydrodynamically coupled micron-size multiple-particle ring. <i>Physical Review E</i> , 2007, 76, 061402.	2.1	47
191	Holographic assembly workstation for optical manipulation. <i>Journal of Optics</i> , 2008, 10, 044009.	1.5	46
192	Efficient generation of Bessel beam arrays by means of an SLM. <i>European Physical Journal: Special Topics</i> , 2011, 199, 159-166.	2.6	46
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