Miles J Padgett

List of Publications by Year in Descending Order

463 papers	34,952 citations	94 h-index	176 g-index
582 ext. papers	43,480 ext. citations	5.4 avg, IF	7.63 L-index

#	Paper	IF	Citations
463	Single-pixel imaging with heralded single photons **2022**, 1, 826		1
462	Quantum imaging with a photon counting camera.. *Scientific Reports*, **2022**, 12, 8286	4.9	1
461	Noise rejection through an improved quantum illumination protocol. *Scientific Reports*, **2021**, 11, 21841	4.9	2
460	Optimising backscatter from multiple beam interference. *Optics Express*, **2021**, 29, 8770-8776	3.3	1
459	Compressed sensing in the far-field of the spatial light modulator in high noise conditions. *Scientific Reports*, **2021**, 11, 17460	4.9	1
458	Time-of-flight 3D imaging through multimode optical fibers. *Science*, **2021**, 374, 1395-1399	33.3	8
457	Amplification of waves from a rotating body. *Nature Physics*, **2020**, 16, 1069-1073	16.2	17
456	How many photons does it take to form an image?. *Applied Physics Letters*, **2020**, 116, 260504	3.4	5
455	Imaging through noise with quantum illumination. *Science Advances*, **2020**, 6, eaay2652	14.3	37
454	Single-pixel imaging using caustic patterns. *Scientific Reports*, **2020**, 10, 2281	4.9	4
453	Revealing and concealing entanglement with noninertial motion. *Physical Review A*, **2020**, 101,	2.6	5
452	Developing a portable gas imaging camera using highly tunable active-illumination and computer vision. *Optics Express*, **2020**, 28, 18566-18576	3.3	2
451	Dual-band single-pixel telescope. *Optics Express*, **2020**, 28, 18180-18188	3.3	10
450	Single-pixel imaging 12 years on: a review. *Optics Express*, **2020**, 28, 28190-28208	3.3	79
449	Single-pixel LIDAR with Deep Learning Optimised Sampling **2020**,		2
448	Photon Bunching in a Rotating Reference Frame. *Physical Review Letters*, **2019**, 123, 110401	7.4	11
447	Imaging with quantum states of light. *Nature Reviews Physics*, **2019**, 1, 367-380	23.6	78

446	A compact acoustic spanner to rotate macroscopic objects. *Scientific Reports*, **2019**, 9, 6757	4.9	2
445	A versatile quantum walk resonator with bright classical light. *PLoS ONE*, **2019**, 14, e0214891	3.7	12
444	Hybrid 3D ranging and velocity tracking system combining multi-view cameras and simple LiDAR. *Scientific Reports*, **2019**, 9, 5241	4.9	8
443	Leach et´al. Reply. *Physical Review Letters*, **2019**, 122, 139402	7.4	1
442	Imaging Bell-type nonlocal behavior. *Science Advances*, **2019**, 5, eaaw2563	14.3	25
441	A High-Speed, Wavelength Invariant, Single-Pixel Wavefront Sensor With a Digital Micromirror Device. *IEEE Access*, **2019**, 7, 85860-85866	3.5	12
440	Phase and amplitude imaging with quantum correlations through Fourier Ptychography. *Scientific Reports*, **2019**, 9, 10445	4.9	8
439	Beating classical imaging limits with entangled photons **2019**,		2
438	Concepts in quantum state tomography and classical implementation with intense light: a tutorial. *Advances in Optics and Photonics*, **2019**, 11, 67	16.7	51
437	A light-in-flight single-pixel camera for use in the visible and short-wave infrared. *Optics Express*, **2019**, 27, 9829-9837	3.3	7
436	Resolution-enhanced quantum imaging by centroid estimation of biphotons. *Optica*, **2019**, 6, 347	8.6	23
435	Measurement of the spin-orbit coupling interaction in ring-core optical fibers. *OSA Continuum*, **2019** , 2, 2975	1.4	5
434	Exploiting digital micromirror device for holographic micro-endoscopy **2019**,		1
433	Deep learning optimized single-pixel LiDAR. *Applied Physics Letters*, **2019**, 115, 231101	3.4	22
432	Principles and prospects for single-pixel imaging. *Nature Photonics*, **2019**, 13, 13-20	33.9	232
431	Light, the universe and everything 12 Herculean tasks for quantum cowboys and black diamond skiers. *Journal of Modern Optics*, **2018**, 65, 1261-1308	1.1	5
430	Testing for entanglement with periodic coarse graining. *Physical Review A*, **2018**, 97,	2.6	5
429	Twisted electrons. *Contemporary Physics*, **2018**, 59, 126-144	3.3	26

428	Deep learning for real-time single-pixel video. *Scientific Reports*, **2018**, 8, 2369	4.9	106
427	Reversal of orbital angular momentum arising from an extreme Doppler shift. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 3800-3803	11.5	18
426	Spiniform phase-encoded metagratings entangling arbitrary rational-order orbital angular momentum. *Light: Science and Applications*, **2018**, 7, 17156	16.7	64
425	More than meets the eye. *Gut*, **2018**, 67, 69	19.2	3
424	1000 fps computational ghost imaging using LED-based structured illumination. *Optics Express*, **2018**, 26, 2427-2434	3.3	94
423	Resolution limits of quantum ghost imaging. *Optics Express*, **2018**, 26, 7528-7536	3.3	29
422	How fast is a twisted photon?. *Optica*, **2018**, 5, 682	8.6	13
421	Quantum-inspired computational imaging. *Science*, **2018**, 361,	33.3	71
420	Ghost Imaging Using Optical Correlations. *Laser and Photonics Reviews*, **2018**, 12, 1700143	8.3	74
419	Experimental Limits of Ghost Diffraction: Popper's Thought Experiment. *Scientific Reports*, **2018**, 8, 13183	4.9	9
418	Holographic optical trapping Raman micro-spectroscopy for non-invasive measurement and manipulation of live cells. *Optics Express*, **2018**, 26, 25211-25225	3.3	16
417	Experimental study of quantum thermodynamics using optical vortices. *Journal of Physics Communications*, **2018**, 2, 035012	1.2	9
416	Approach to classify, separate, and enrich objects in groups using ensemble sorting. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 5681-5685	11.5	6
415	Optical orbital angular momentum. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2017**, 375,	3	56
414	Adaptive foveated single-pixel imaging with dynamic supersampling. *Science Advances*, **2017**, 3, e1601782	14.3	122
413	Image reconstruction from photon sparse data. *Scientific Reports*, **2017**, 7, 42164	4.9	13
412	A Bayesian Approach to Denoising of Single-Photon Binary Images. *IEEE Transactions on Computational Imaging*, **2017**, 3, 460-471	4.5	11
411	Measuring the orbital angular momentum spectrum of an electron beam. *Nature Communications*, **2017**, 8, 15536	17.4	51

410	Free-space propagation of high-dimensional structured optical fields in an urban environment. *Science Advances*, **2017**, 3, e1700552	14.3	86
409	Sharing a Common Origin Between the Rotational and Linear Doppler Effects. *Laser and Photonics Reviews*, **2017**, 11, 1700183	8.3	52
408	A Russian Dolls ordering of the Hadamard basis for compressive single-pixel imaging. *Scientific Reports*, **2017**, 7, 3464	4.9	117
407	Generation of Caustics and Rogue Waves from Nonlinear Instability. *Physical Review Letters*, **2017**, 119, 203901	7.4	22
406	An introduction to ghost imaging: quantum and classical. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2017**, 375,	3	99
405	Roadmap on structured light. *Journal of Optics (United Kingdom)*, **2017**, 19, 013001	1.7	518
404	Orbital angular momentum 25 years on [Invited]. *Optics Express*, **2017**, 25, 11265-11274	3.3	356
403	Sub-shot-noise shadow sensing with quantum correlations. *Optics Express*, **2017**, 25, 21826-21840	3.3	11
402	Polarisation structuring of broadband light. *Optics Express*, **2017**, 25, 25079-25089	3.3	19
401	Comparison of nematic liquid-crystal and DMD based spatial light modulation in complex photonics. *Optics Express*, **2017**, 25, 29874-29884	3.3	53
400	Compressed sensing with near-field THz radiation. *Optica*, **2017**, 4, 989	8.6	82
399	Real-time imaging of methane gas leaks using a single-pixel camera. *Optics Express*, **2017**, 25, 2998-3005	3.3	111
398	Real-time computational photon-counting LiDAR. *Optical Engineering*, **2017**, 57, 1	1.1	11
397	Tissue diagnosis using power-sharing multifocal Raman micro-spectroscopy and auto-fluorescence imaging. *Biomedical Optics Express*, **2016**, 7, 2993-3006	3.5	29
396	DMD-based software-configurable spatially-offset Raman spectroscopy for spectral depth-profiling of optically turbid samples. *Optics Express*, **2016**, 24, 12701-12	3.3	25
395	Real-time 3D video utilizing a compressed sensing time-of-flight single-pixel camera **2016**,		6
394	Coherent Absorption of N00N States. *Physical Review Letters*, **2016**, 117, 023601	7.4	25
393	Noninvasive, near-field terahertz imaging of hidden objects using a single-pixel detector. *Science Advances*, **2016**, 2, e1600190	14.3	217

392	Single-pixel three-dimensional imaging with time-based depth resolution. *Nature Communications*, **2016**, 7, 12010	17.4	261
391	Non-diffractive computational ghost imaging. *Optics Express*, **2016**, 24, 14172-82	3.3	22
390	On the natures of the spin and orbital parts of optical angular momentum. *Journal of Optics (United Kingdom)*, **2016**, 18, 064004	1.7	78
389	Fast Compressive 3D Single-pixel Imaging **2016**,		1
388	First-Photon 3D Imaging with a Single-Pixel Camera **2016**,		1
387	Long Distance Free-Space Propagation of light carrying Orbital Angular Momentum **2016**,		1
386	Holographic tracking and sizing of optically trapped microprobes in diamond anvil cells. *Optics Express*, **2016**, 24, 27009-27015	3.3	4
385	Comparing the information capacity of Laguerre-Gaussian and Hermite-Gaussian modal sets in a finite-aperture system. *Optics Express*, **2016**, 24, 27127-27136	3.3	28
384	High-speed spatial control of the intensity, phase and polarisation of vector beams using a digital micro-mirror device. *Optics Express*, **2016**, 24, 29269-29282	3.3	65
383	Heralded phase-contrast imaging using an orbital angular momentum phase-filter. *Journal of Optics (United Kingdom)*, **2016**, 18, 055204	1.7	17
382	Quantum Mechanical Properties of Light Fields Carrying Orbital Angular Momentum **2016**, 435-454		1
381	Video recording true single-photon double-slit interference. *American Journal of Physics*, **2016**, 84, 671-677	0.7	26
380	3D single-pixel video. *Journal of Optics (United Kingdom)*, **2016**, 18, 035203	1.7	40
379	Improving the signal-to-noise ratio of single-pixel imaging using digital microscanning. *Optics Express*, **2016**, 24, 10476-85	3.3	107
378	The transition from a coherent optical vortex to a Rankine vortex: beam contrast dependence on topological charge. *Journal of Modern Optics*, **2016**, 63, S51-S56	1.1	1
377	Nondestructive Measurement of Orbital Angular Momentum for an Electron Beam. *Physical Review Letters*, **2016**, 117, 154801	7.4	21
376	Imaging with a small number of photons. *Nature Communications*, **2015**, 6, 5913	17.4	224
375	Optics. Spatially structured photons that travel in free space slower than the speed of light. *Science* , **2015**, 347, 857-60	33.3	90

374	Near video-rate linear Stokes imaging with single-pixel detectors. *Journal of Optics (United Kingdom)*, **2015**, 17, 025705	1.7	35
373	Orbital Angular Momentum **2015**, 321-340		10
372	High-dimensional quantum cryptography with twisted light. *New Journal of Physics*, **2015**, 17, 033033	2.9	335
371	A fast 3D reconstruction system with a low-cost camera accessory. *Scientific Reports*, **2015**, 5, 10909	4.9	23
370	Discrete emitters as a source of orbital angular momentum. *Journal of Optics (United Kingdom)*, **2015**, 17, 045608	1.7	16
369	Divergence of an orbital-angular-momentum-carrying beam upon propagation. *New Journal of Physics*, **2015**, 17, 023011	2.9	154
368	Development of a 3D printer using scanning projection stereolithography. *Scientific Reports*, **2015**, 5, 9875	4.9	117
367	Fabricating microscopic tools: towards optically actuated micro-robotics **2015**,		2
366	Slow light in ruby: delaying energy beyond the input pulse **2015**,		1
365	Study of Turbulence Induced Orbital Angular Momentum Channel Crosstalk in a 1.6km Free-Space Optical Link **2015**,		5
364	Optically controlled hydrodynamic micro-manipulation **2015**,		1
363	'Lissajous-like' trajectories in optical tweezers. *Optics Express*, **2015**, 23, 31716-27	3.3	2
362	Optically Induced Forces Imposed in an Optical Funnel on a Stream of Particles in Air or Vacuum. *Physical Review Applied*, **2015**, 4,	4.3	30
361	Simultaneous real-time visible and infrared video with single-pixel detectors. *Scientific Reports*, **2015**, 5, 10669	4.9	169
360	Photon-sparse microscopy: visible light imaging using infrared illumination. *Optica*, **2015**, 2, 1049	8.6	74
359	Generalized photon sieves: fine control of complex fields with simple pinhole arrays. *Optica*, **2015**, 2, 1028	8.6	26
358	Precision assembly of complex cellular microenvironments using holographic optical tweezers. *Scientific Reports*, **2015**, 5, 8577	4.9	64
357	Self-healing of quantum entanglement after an obstruction. *Nature Communications*, **2014**, 5, 3248	17.4	90

356	Exploring the quantum nature of the radial degree of freedom of a photon via Hong-Ou-Mandel interference. *Physical Review A*, **2014**, 89,	2.6	70
355	Direct measurement of a 27-dimensional orbital-angular-momentum state vector. *Nature Communications*, **2014**, 5, 3115	17.4	145
354	Experimental demonstration of Klyshko's advanced-wave picture using a coincidence-count based, camera-enabled imaging system. *Journal of Modern Optics*, **2014**, 61, 547-551	1.1	12
353	Interface between path and orbital angular momentum entanglement for high-dimensional photonic quantum information. *Nature Communications*, **2014**, 5, 4502	17.4	116
352	Shape-induced force fields in optical trapping. *Nature Photonics*, **2014**, 8, 400-405	33.9	95
351	Adaptive optics compensation of multiple orbital angular momentum beams propagating through emulated atmospheric turbulence. *Optics Letters*, **2014**, 39, 2845-8	3	95
350	Rotational Doppler velocimetry to probe the angular velocity of spinning microparticles. *Physical Review A*, **2014**, 90,	2.6	36
349	A new twist on the Doppler shift. *Physics Today*, **2014**, 67, 58-59	0.9	12
348	Optically trapped bacteria pairs reveal discrete motile response to control aggregation upon cell-cell approach. *Current Microbiology*, **2014**, 69, 669-74	2.4	12
347	Experimental demonstration of 16 Gbit/s millimeter-wave communications using MIMO processing of 2 OAM modes on each of two transmitter/receiver antenna apertures **2014**,		12
346	Light's twist. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2014**, 470, 20140633	2.4	27
345	100 Tbit/s free-space data link enabled by three-dimensional multiplexing of orbital angular momentum, polarization, and wavelength. *Optics Letters*, **2014**, 39, 197-200	3	309
344	Interference of probability amplitudes: a simple demonstration within the Hong–Ou–Mandel experiment. *Journal of Optics (United Kingdom)*, **2014**, 16, 032002	1.7	3
343	Practical bound for dimensionality in high-dimensional entanglement. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 6122-3	11.5	1
342	Experimental investigation of the transient dynamics of slow light in ruby. *New Journal of Physics*, **2014**, 16, 123054	2.9	13
341	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	1.7	62
340	Nanoarrays for the generation of complex optical wave-forms **2014**,		1
339	3D computational ghost imaging **2014**,		1

338	Reply to Comment on Evidence of slow-light effects from rotary drag of structured beams *New Journal of Physics*, **2014**, 16, 038002	2.9	2
337	Single-pixel infrared and visible microscope. *Optica*, **2014**, 1, 285	8.6	200
336	Tunable orbital angular momentum mode filter based on optical geometric transformation. *Optics Letters*, **2014**, 39, 1689-92	3	14
335	Observation of the rotational Doppler shift of a white-light, orbital-angular-momentum-carrying beam backscattered from a rotating body. *Optica*, **2014**, 1, 1	8.6	80
334	Dynamic stereo microscopy for studying particle sedimentation. *Optics Express*, **2014**, 22, 4671-7	3.3	17
333	Mechanical Faraday effect for orbital angular momentum-carrying beams. *Optics Express*, **2014**, 22, 11690-7	3.3	10
332	Four-directional stereo-microscopy for 3D particle tracking with real-time error evaluation. *Optics Express*, **2014**, 22, 18662-7	3.3	6
331	Demonstration of 8-mode 32-Gbit/s millimeter-wave free-space communication link using 4 orbital-angular-momentum modes on 2 polarizations **2014**,		6
330	High-capacity millimetre-wave communications with orbital angular momentum multiplexing. *Nature Communications*, **2014**, 5, 4876	17.4	623
329	Observation of the rotational Doppler effect from an optically trapped micro-particle **2014**,		1
328	Entropic uncertainty minimum for angle and angular momentum. *Journal of Optics (United Kingdom)*, **2014**, 16, 105404	1.7	
327	Optical angular momentum in a rotating frame. *Optics Letters*, **2014**, 39, 2944-6	3	20
326	Orbital-Angular-Momentum Mode (De)Multiplexer: A Single Optical Element for MIMO-based and non-MIMO-based Multimode Fiber Systems **2014**,		6
325	Red Tweezers Fast, customisable hologram generation for optical tweezers. *Computer Physics Communications*, **2014**, 185, 268-273	4.2	60
324	Experimental Analysis of Multiplexing/demultiplexing Laguerre Gaussian Beams with Different Radial Index **2014**,		2
323	Orbital Angular Momentum: Testbed for Quantum Mechanics **2014**, 159-171		
322	Measuring nanoparticle flow with the image structure function. *Lab on A Chip*, **2013**, 13, 2359-63	7.2	9
321	Higher-dimensional orbital-angular-momentum-based quantum key distribution with mutually unbiased bases. *Physical Review A*, **2013**, 88,	2.6	193

320	Two-photon optics of Bessel-Gaussian modes. *Physical Review A*, **2013**, 88,	2.6	31
319	Multimode Communications Using Orbital Angular Momentum **2013**, 569-615		4
318	Evidence of slow-light effects from rotary drag of structured beams. *New Journal of Physics*, **2013**, 15, 083020	2.9	11
317	Detection of a spinning object using light's orbital angular momentum. *Science*, **2013**, 341, 537-40	33.3	512
316	Efficient sorting of Bessel beams. *Optics Express*, **2013**, 21, 165-71	3.3	48
315	Optical trapping and binding. *Reports on Progress in Physics*, **2013**, 76, 026401	14.4	191
314	Efficient measurement of an optical orbital-angular-momentum spectrum comprising more than 50 states. *New Journal of Physics*, **2013**, 15, 013024	2.9	56
313	Optical trapping at gigapascal pressures. *Physical Review Letters*, **2013**, 110, 095902	7.4	16
312	Characterization of high-dimensional entangled systems via mutually unbiased measurements. *Physical Review Letters*, **2013**, 110, 143601	7.4	64
311	3D computational imaging with single-pixel detectors. *Science*, **2013**, 340, 844-7	33.3	488
310	Multi-wavelength compressive computational ghost imaging **2013**,		8
309	Optical activity in twisted solid-core photonic crystal fibers. *Physical Review Letters*, **2013**, 110, 143903	7.4	66
308	Light in a twist: optical angular momentum **2013**,		4
307	100 Tbit/s Free-Space Data Link using Orbital Angular Momentum Mode Division Multiplexing Combined with Wavelength Division Multiplexing **2013**,		16
306	Differential Computational Ghost Imaging **2013**,		6
305	A multi-modal stereo microscope based on a spatial light modulator. *Optics Express*, **2013**, 21, 16541-51	3.3	22
304	Fast full-color computational imaging with single-pixel detectors. *Optics Express*, **2013**, 21, 23068-74	3.3	156
303	The influence of non-imaging detector design on heralded ghost-imaging and ghost-diffraction examined using a triggered ICCD camera. *Optics Express*, **2013**, 21, 30460-73	3.3	30

302	Reconfigurable orbital angular momentum and polarization manipulation of 100 Gbit/s QPSK data channels. *Optics Letters*, **2013**, 38, 5240-3	3	12
301	Optically trapped and driven paddle-wheel. *New Journal of Physics*, **2013**, 15, 063016	2.9	22
300	Tailored two-photon correlation and fair-sampling: a cautionary tale. *New Journal of Physics*, **2013**, 15, 083047	2.9	15
299	3D computational ghost imaging **2013**,		2
298	A multi-object spectral imaging instrument. *Journal of Optics (United Kingdom)*, **2013**, 15, 085302	1.7	8
297	Fashioning microscopic tools **2013**,		1
296	Speeding up liquid crystal SLMs using overdrive with phase change reduction. *Optics Express*, **2013**, 21, 1779-97	3.3	74
295	Optimizing the use of detector arrays for measuring intensity correlations of photon pairs. *Physical Review A*, **2013**, 88,	2.6	15
294	EPR-based ghost imaging using a single-photon-sensitive camera. *New Journal of Physics*, **2013**, 15, 073032	2.9	87
293	Atmospheric turbulence effects on the performance of a free space optical link employing orbital angular momentum multiplexing. *Optics Letters*, **2013**, 38, 4062-5	3	154
292	The measurement and generation of orbital angular momentum using an optical geometric transformation **2013**,		4
291	Bounds and optimisation of orbital angular momentum bandwidths within parametric down-conversion systems. *European Physical Journal D*, **2012**, 66, 1	1.3	14
290	Titelbild: Directed Assembly of Inorganic Polyoxometalate-based Micrometer-Scale Tubular Architectures by Using Optical Control (Angew. Chem. 51/2012). *Angewandte Chemie*, **2012**, 124, 12799-12799	3.6	
289	Directed Assembly of Inorganic Polyoxometalate-based Micrometer-Scale Tubular Architectures by Using Optical Control. *Angewandte Chemie*, **2012**, 124, 12926-12930	3.6	5
288	Directed assembly of inorganic polyoxometalate-based micrometer-scale tubular architectures by using optical control. *Angewandte Chemie - International Edition*, **2012**, 51, 12754-8	16.4	24
287	Increasing the dimension in high-dimensional two-photon orbital angular momentum entanglement. *Physical Review A*, **2012**, 86,	2.6	65
286	Partial synchronization of stochastic oscillators through hydrodynamic coupling. *Physical Review Letters*, **2012**, 108, 240601	7.4	21
285	Optical tweezers: a light touch. *Journal of Microscopy*, **2012**, 248, 219-22	1.9	12

284	The efficient sorting of light's orbital angular momentum for optical communications **2012**,		4
283	Imaging high-dimensional spatial entanglement with a camera. *Nature Communications*, **2012**, 3, 984	17.4	150
282	Orbital angular momentum correlations with a phase-flipped Gaussian mode pump beam. *Journal of Optics (United Kingdom)*, **2012**, 14, 085401	1.7	23
281	Determining the dimensionality of bipartite orbital-angular-momentum entanglement using multi-sector phase masks. *New Journal of Physics*, **2012**, 14, 073046	2.9	13
280	Expanding the toolbox for nanoparticle trapping and spectroscopy with holographic optical tweezers. *Journal of Optics (United Kingdom)*, **2012**, 14, 045003	1.7	10
279	Influence of atmospheric turbulence on states of light carrying orbital angular momentum. *Optics Letters*, **2012**, 37, 3735-7	3	139
278	Refractive elements for the measurement of the orbital angular momentum of a single photon. *Optics Express*, **2012**, 20, 2110-5	3.3	161
277	Optical shield: measuring viscosity of turbid fluids using optical tweezers. *Optics Express*, **2012**, 20, 12127-32	3.3	9
276	Influence of atmospheric turbulence on optical communications using orbital angular momentum for encoding. *Optics Express*, **2012**, 20, 13195-200	3.3	206
275	Entangled Bessel-Gaussian beams. *Optics Express*, **2012**, 20, 23589-97	3.3	82
274	Normalized ghost imaging. *Optics Express*, **2012**, 20, 16892	3.3	213
273	Quantum correlations in position, momentum, and intermediate bases for a full optical field of view. *Physical Review A*, **2012**, 85,	2.6	14
272	An optically actuated surface scanning probe. *Optics Express*, **2012**, 20, 29679-93	3.3	54
271	A compact holographic optical tweezers instrument. *Review of Scientific Instruments*, **2012**, 83, 113107	1.7	22
270	Force sensing with a shaped dielectric micro-tool. *Europhysics Letters*, **2012**, 99, 58004	1.6	34
269	Photon orbital angular momentum: generation, measurement and application to QKD **2012**,		1
268	Orbital Angular Momentum **2012**, 3-12		
267	Entangled optical vortex links. *Physical Review Letters*, **2011**, 106, 100407	7.4	43

266	Robust interferometer for the routing of light beams carrying orbital angular momentum. *New Journal of Physics*, **2011**, 13, 093014	2.9	35
265	Optimizing the optical trapping stiffness of holographically trapped microrods using high-speed video tracking. *Journal of Optics (United Kingdom)*, **2011**, 13, 044023	1.7	28
264	Orbital angular momentum: origins, behavior and applications. *Advances in Optics and Photonics*, **2011**, 3, 161	16.7	1687
263	Single-photon position to time multiplexing using a fiber array. *Optics Express*, **2011**, 19, 2670-5	3.3	6
262	Position clamping in a holographic counterpropagating optical trap. *Optics Express*, **2011**, 19, 9908-14	3.3	23
261	Position clamping of optically trapped microscopic non-spherical probes. *Optics Express*, **2011**, 19, 20622-37	3.3	26
260	Holographic aberration correction: optimising the stiffness of an optical trap deep in the sample. *Optics Express*, **2011**, 19, 24589-95	3.3	16
259	Measuring orbital angular momentum superpositions of light by mode transformation. *Optics Letters*, **2011**, 36, 1863-5	3	49
258	Holographic optical tweezers and their relevance to lab on chip devices. *Lab on A Chip*, **2011**, 11, 1196-205	5.2	166
257	Tweezers with a twist. *Nature Photonics*, **2011**, 5, 343-348	33.9	1159
256	Experimental high-dimensional two-photon entanglement and violations of generalized Bell inequalities. *Nature Physics*, **2011**, 7, 677-680	16.2	408
255	Rotary photon drag enhanced by a slow-light medium. *Science*, **2011**, 333, 65-7	33.3	79
254	Optimisation of a low cost SLM for diffraction efficiency and ghost order suppression. *European Physical Journal: Special Topics*, **2011**, 199, 149-158	2.3	27
253	Efficient generation of Bessel beam arrays by means of an SLM. *European Physical Journal: Special Topics*, **2011**, 199, 159-166	2.3	26
252	Knotted and tangled threads of darkness in light beams. *Contemporary Physics*, **2011**, 52, 265-279	3.3	13
251	Surface imaging using holographic optical tweezers. *Nanotechnology*, **2011**, 22, 285503	3.4	58
250	Demonstration of the angular uncertainty principle for single photons. *Journal of Optics (United Kingdom)*, **2011**, 13, 064017	1.7	12
249	iTweezers: optical micromanipulation controlled by an Apple iPad. *Journal of Optics (United Kingdom)*, **2011**, 13, 044002	1.7	27

248	Optical tweezers: wideband microrheology. *Journal of Optics (United Kingdom)*, **2011**, 13, 044022	1.7	44
247	Measurement of the light orbital angular momentum spectrum using an optical geometric transformation. *Journal of Optics (United Kingdom)*, **2011**, 13, 064006	1.7	74
246	Stereoscopic particle tracking for 3D touch, vision and closed-loop control in optical tweezers. *Journal of Optics (United Kingdom)*, **2011**, 13, 044003	1.7	26
245	Investigating the interaction forces between T cells and antigen-presenting cells using an optical trapping system **2011**,		1
244	Surface imaging using optically controlled microrods **2011**,		1
243	Measuring the orbital angular momentum of light **2011**,		1
242	Holographic tweezers: a platform for plasmonics **2011**,		3
241	Isolated optical vortex knots. *Nature Physics*, **2010**, 6, 118-121	16.2	281
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