Paul F Griffin

List of Publications by Citations

47 papers	700 citations	15 h-index	25 g-index
61 ext. papers	925 ext. citations	3.7 avg, IF	3.76 L-index

#	Paper	IF	Citations
47	Polarization spectroscopy of a closed atomic transition: applications to laser frequency locking. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2002**, 35, 5141-5151	1.3	148
46	A surface-patterned chip as a strong source of ultracold atoms for quantum technologies. *Nature Nanotechnology*, **2013**, 8, 321-4	28.7	71
45	Single-laser, one beam, tetrahedral magneto-optical trap. *Optics Express*, **2009**, 17, 13601-8	3.3	35
44	Grating chips for quantum technologies. *Scientific Reports*, **2017**, 7, 384	4.9	32
43	Smooth inductively coupled ring trap for atoms. *Physical Review A*, **2008**, 77,	2.6	29
42	Phase-space properties of magneto-optical traps utilising micro-fabricated gratings. *Optics Express*, **2015**, 23, 8948-59	3.3	26
41	Spinor dynamics in an antiferromagnetic spin-1 thermal Bose gas. *Physical Review Letters*, **2013**, 111, 025301	7.4	26
40	Laser cooling with a single laser beam and a planar diffractor. *Optics Letters*, **2010**, 35, 3453-5	3	26
39	Photoionization and photoelectric loading of barium ion traps. *Physical Review A*, **2007**, 75,	2.6	22
38	Demonstration of an inductively coupled ring trap for cold atoms. *New Journal of Physics*, **2012**, 14, 103047	2.9	21
37	Spatially selective loading of an optical lattice by light-shift engineering using an auxiliary laser field. *New Journal of Physics*, **2006**, 8, 11-11	2.9	20
36	Diffraction-grating characterization for cold-atom experiments. *Journal of the Optical Society of America B: Optical Physics*, **2016**, 33, 1271	1.7	19
35	Cold-atom clock based on a diffractive optic. *Optics Express*, **2019**, 27, 38359-38366	3.3	18
34	Spatial interference from well-separated split condensates. *Physical Review A*, **2010**, 81,	2.6	17
33	Design and fabrication of diffractive atom chips for laser cooling and trapping. *Applied Physics B: Lasers and Optics*, **2016**, 122, 172	1.9	16
32	Vector Magnetometry Exploiting Phase-Geometry Effects in a Double-Resonance Alignment Magnetometer. *Physical Review Applied*, **2018**, 10,	4.3	14
31	Fast switching of alkali atom dispensers using laser-induced heating. *Review of Scientific Instruments*, **2005**, 76, 093102	1.7	13

30	Laser cooling in a chip-scale platform. *Applied Physics Letters*, **2020**, 117, 054001	3.4	13
29	Orientational effects on the amplitude and phase of polarimeter signals in double-resonance atomic magnetometry. *Physical Review A*, **2017**, 96,	2.6	12
28	Spontaneous light-mediated magnetism in cold atoms. *Communications Physics*, **2018**, 1,	5.4	10
27	Gouy phase-matched angular and radial mode conversion in four-wave mixing. *Physical Review A*, **2021**, 103,	2.6	10
26	High-precision control of static magnetic field magnitude, orientation, and gradient using optically pumped vapour cell magnetometry. *Review of Scientific Instruments*, **2017**, 88, 043109	1.7	9
25	Talbot-enhanced, maximum-visibility imaging of condensate interference. *Optica*, **2018**, 5, 80	8.6	9
24	A spinor Bose-Einstein condensate phase-sensitive amplifier for SU(1,1) interferometry. *Physical Review A*, **2018**, 98,	2.6	9
23	A versatile and reliably reusable ultrahigh vacuum viewport. *Review of Scientific Instruments*, **2009**, 80, 026105	1.7	9
22	The UK National Quantum Technologies Hub in sensors and metrology (Keynote Paper) **2016**,		6
21	Reusable ultrahigh vacuum viewport bakeable to 240 °C. *Review of Scientific Instruments*, **2003**, 74, 3185-3187	1.7	6
20	3D mapping of intensity field about the focus of a micrometer-scale parabolic mirror. *Optics Express* , **2015**, 23, 2375-82	3.3	5
19	Stand-alone vacuum cell for compact ultracold quantum technologies. *Applied Physics Letters*, **2021**, 119, 124002	3.4	5
18	A simple imaging solution for chip-scale laser cooling. *Applied Physics Letters*, **2021**, 119, 184002	3.4	4
17	A feed-forward measurement scheme for periodic noise suppression in atomic magnetometry. *Review of Scientific Instruments*, **2020**, 91, 045103	1.7	4
16	Comparative simulations of Fresnel holography methods for atomic waveguides. *New Journal of Physics*, **2016**, 18, 025007	2.9	3
15	Raman-Ramsey CPT with a grating magneto-optical trap **2018**,		3
14	Optical characterisation of micro-fabricated Fresnel zone plates for atomic waveguides. *Optics Express*, **2020**, 28, 9072-9081	3.3	3
13	Recording the heart beat of cattle using a gradiometer system of optically pumped magnetometers. *Computers and Electronics in Agriculture*, **2020**, 177, 105651	6.5	3

12	Silicon nitride waveguide polarization rotator and polarization beam splitter for chip-scale atomic systems. *APL Photonics*, **2022**, 7, 046101	5.2	3
11	Detection of applied and ambient forces with a matter-wave magnetic gradiometer. *Physical Review A*, **2017**, 96,	2.6	2
10	Compact multispectral pushframe camera for nanosatellites. *Applied Optics*, **2020**, 59, 8511-8518	0.2	2
9	Towards a compact, optically interrogated, cold-atom microwave clock. *Advanced Optical Technologies*, **2020**, 9, 297-303	0.9	2
8	Self-Organization in Cold Atoms Mediated by Diffractive Coupling. *Atoms*, **2021**, 9, 35	2.1	2
7	Fast piezoelectric scanning MEMS mirror for 1D ion addressing **2019**,		2
6	Characterization of a Fast Piezoelectric Varifocal MEMS Mirror **2018**,		2
5	Demonstration of a Compact Magneto-Optical Trap on an Unstaffed Aerial Vehicle. *Atoms*, **2022**, 10, 32	2.1	2
4	Utilising diffractive optics towards a compact, cold atom clock **2016**,		1
3	Impact of Laser Frequency Noise in Coherent Population Trapping with Cold Atoms **2019**,		1
2	Towards a compact atomic clock based on coherent population trapping and the grating magneto-optical trap **2019**,		1
1	Compressive Sampling Using a Pushframe Camera. *IEEE Transactions on Computational Imaging*, **2021**, 1-1	4.5	1