

# Paul F Griffin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Demonstration of a Compact Magneto-Optical Trap on an Unstaffed Aerial Vehicle. <i>Atoms</i> , <b>2022</b> , 10, 32	2.1	2
46	Silicon nitride waveguide polarization rotator and polarization beam splitter for chip-scale atomic systems. <i>APL Photonics</i> , <b>2022</b> , 7, 046101	5.2	3
45	A simple imaging solution for chip-scale laser cooling. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 184002	3.4	4
44	Self-Organization in Cold Atoms Mediated by Diffractive Coupling. <i>Atoms</i> , <b>2021</b> , 9, 35	2.1	2
43	Compressive Sampling Using a Pushframe Camera. <i>IEEE Transactions on Computational Imaging</i> , <b>2021</b> , 1-1	4.5	1
42	Gouy phase-matched angular and radial mode conversion in four-wave mixing. <i>Physical Review A</i> , <b>2021</b> , 103,	2.6	10
41	Stand-alone vacuum cell for compact ultracold quantum technologies. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 124002	3.4	5
40	Optical characterisation of micro-fabricated Fresnel zone plates for atomic waveguides. <i>Optics Express</i> , <b>2020</b> , 28, 9072-9081	3.3	3
39	Compact multispectral pushframe camera for nanosatellites. <i>Applied Optics</i> , <b>2020</b> , 59, 8511-8518	0.2	2
38	Towards a compact, optically interrogated, cold-atom microwave clock. <i>Advanced Optical Technologies</i> , <b>2020</b> , 9, 297-303	0.9	2
37	Recording the heart beat of cattle using a gradiometer system of optically pumped magnetometers. <i>Computers and Electronics in Agriculture</i> , <b>2020</b> , 177, 105651	6.5	3
36	Laser cooling in a chip-scale platform. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 054001	3.4	13
35	A feed-forward measurement scheme for periodic noise suppression in atomic magnetometry. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 045103	1.7	4
34	Impact of Laser Frequency Noise in Coherent Population Trapping with Cold Atoms <b>2019</b> ,		1
33	Cold-atom clock based on a diffractive optic. <i>Optics Express</i> , <b>2019</b> , 27, 38359-38366	3.3	18
32	Towards a compact atomic clock based on coherent population trapping and the grating magneto-optical trap <b>2019</b> ,		1
31	Fast piezoelectric scanning MEMS mirror for 1D ion addressing <b>2019</b> ,		2

30	Talbot-enhanced, maximum-visibility imaging of condensate interference. <i>Optica</i> , <b>2018</b> , 5, 80	8.6	9
29	Spontaneous light-mediated magnetism in cold atoms. <i>Communications Physics</i> , <b>2018</b> , 1,	5.4	10
28	Raman-Ramsey CPT with a grating magneto-optical trap <b>2018</b> ,		3
27	A spinor Bose-Einstein condensate phase-sensitive amplifier for SU(1,1) interferometry. <i>Physical Review A</i> , <b>2018</b> , 98,	2.6	9
26	Vector Magnetometry Exploiting Phase-Geometry Effects in a Double-Resonance Alignment Magnetometer. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	14
25	Characterization of a Fast Piezoelectric Varifocal MEMS Mirror <b>2018</b> ,		2
24	High-precision control of static magnetic field magnitude, orientation, and gradient using optically pumped vapour cell magnetometry. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 043109	1.7	9
23	Grating chips for quantum technologies. <i>Scientific Reports</i> , <b>2017</b> , 7, 384	4.9	32
22	Oriental effects on the amplitude and phase of polarimeter signals in double-resonance atomic magnetometry. <i>Physical Review A</i> , <b>2017</b> , 96,	2.6	12
21	Detection of applied and ambient forces with a matter-wave magnetic gradiometer. <i>Physical Review A</i> , <b>2017</b> , 96,	2.6	2
20	Comparative simulations of Fresnel holography methods for atomic waveguides. <i>New Journal of Physics</i> , <b>2016</b> , 18, 025007	2.9	3
19	Design and fabrication of diffractive atom chips for laser cooling and trapping. <i>Applied Physics B: Lasers and Optics</i> , <b>2016</b> , 122, 172	1.9	16
18	Utilising diffractive optics towards a compact, cold atom clock <b>2016</b> ,		1
17	The UK National Quantum Technologies Hub in sensors and metrology (Keynote Paper) <b>2016</b> ,		6
16	Diffraction-grating characterization for cold-atom experiments. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2016</b> , 33, 1271	1.7	19
15	3D mapping of intensity field about the focus of a micrometer-scale parabolic mirror. <i>Optics Express</i> , <b>2015</b> , 23, 2375-82	3.3	5
14	Phase-space properties of magneto-optical traps utilising micro-fabricated gratings. <i>Optics Express</i> , <b>2015</b> , 23, 8948-59	3.3	26
13	A surface-patterned chip as a strong source of ultracold atoms for quantum technologies. <i>Nature Nanotechnology</i> , <b>2013</b> , 8, 321-4	28.7	71

12	Spinor dynamics in an antiferromagnetic spin-1 thermal Bose gas. <i>Physical Review Letters</i> , <b>2013</b> , 111, 025301	7.4	26
11	Demonstration of an inductively coupled ring trap for cold atoms. <i>New Journal of Physics</i> , <b>2012</b> , 14, 103047	2.7	21
10	Spatial interference from well-separated split condensates. <i>Physical Review A</i> , <b>2010</b> , 81,	2.6	17
9	Laser cooling with a single laser beam and a planar diffractor. <i>Optics Letters</i> , <b>2010</b> , 35, 3453-5	3	26
8	A versatile and reliably reusable ultrahigh vacuum viewport. <i>Review of Scientific Instruments</i> , <b>2009</b> , 80, 026105	1.7	9
7	Single-laser, one beam, tetrahedral magneto-optical trap. <i>Optics Express</i> , <b>2009</b> , 17, 13601-8	3.3	35
6	Smooth inductively coupled ring trap for atoms. <i>Physical Review A</i> , <b>2008</b> , 77,	2.6	29
5	Photoionization and photoelectric loading of barium ion traps. <i>Physical Review A</i> , <b>2007</b> , 75,	2.6	22
4	Spatially selective loading of an optical lattice by light-shift engineering using an auxiliary laser field. <i>New Journal of Physics</i> , <b>2006</b> , 8, 11-11	2.9	20
3	Fast switching of alkali atom dispensers using laser-induced heating. <i>Review of Scientific Instruments</i> , <b>2005</b> , 76, 093102	1.7	13
2	Reusable ultrahigh vacuum viewport bakeable to 240 °C. <i>Review of Scientific Instruments</i> , <b>2003</b> , 74, 3185-3187	1.7	6
1	Polarization spectroscopy of a closed atomic transition: applications to laser frequency locking. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2002</b> , 35, 5141-5151	1.3	148