Erling Riis

List of Publications by Year in Descending Order

30 papers	640 citations	15 h-index	25 g-index
47 ext. papers	861 ext. citations	3.6 avg, IF	3.71 L-index

#	Paper	IF	Citations
30	A simple imaging solution for chip-scale laser cooling. *Applied Physics Letters*, **2021**, 119, 184002	3.4	4
29	Gouy phase-matched angular and radial mode conversion in four-wave mixing. *Physical Review A*, **2021**, 103,	2.6	10
28	Stand-alone vacuum cell for compact ultracold quantum technologies. *Applied Physics Letters*, **2021**, 119, 124002	3.4	5
27	Optical characterisation of micro-fabricated Fresnel zone plates for atomic waveguides. *Optics Express*, **2020**, 28, 9072-9081	3.3	3
26	Laser cooling in a chip-scale platform. *Applied Physics Letters*, **2020**, 117, 054001	3.4	13
25	A feed-forward measurement scheme for periodic noise suppression in atomic magnetometry. *Review of Scientific Instruments*, **2020**, 91, 045103	1.7	4
24	Impact of Laser Frequency Noise in Coherent Population Trapping with Cold Atoms **2019**,		1
23	Cold-atom clock based on a diffractive optic. *Optics Express*, **2019**, 27, 38359-38366	3.3	18
22	Free-Induction-Decay Magnetometer Based on a Microfabricated Cs Vapor Cell. *Physical Review Applied*, **2018**, 10,	4.3	12
21	Intensity stabilisation of optical pulse sequences for coherent control of laser-driven qubits. *Applied Physics B: Lasers and Optics*, **2018**, 124, 1	1.9	2
20	Spiral bandwidth of four-wave mixing in Rb vapour. *Communications Physics*, **2018**, 1,	5.4	25
19	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
18	Grating chips for quantum technologies. *Scientific Reports*, **2017**, 7, 384	4.9	32
17	Orientational effects on the amplitude and phase of polarimeter signals in double-resonance atomic magnetometry. *Physical Review A*, **2017**, 96,	2.6	12
16	Design and fabrication of diffractive atom chips for laser cooling and trapping. *Applied Physics B: Lasers and Optics*, **2016**, 122, 172	1.9	16
15	Diffraction-grating characterization for cold-atom experiments. *Journal of the Optical Society of America B: Optical Physics*, **2016**, 33, 1271	1.7	19
14	Cavity-enhanced frequency up-conversion in rubidium vapor. *Optics Letters*, **2016**, 41, 2177-80	3	19

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13	Phase-space properties of magneto-optical traps utilising micro-fabricated gratings. *Optics Express*, **2015**, 23, 8948-59	3.3	26
12	A surface-patterned chip as a strong source of ultracold atoms for quantum technologies. *Nature Nanotechnology*, **2013**, 8, 321-4	28.7	71
11	Enhanced frequency up-conversion in Rb vapor. *Optics Express*, **2010**, 18, 17020-6	3.3	61
10	Laser cooling with a single laser beam and a planar diffractor. *Optics Letters*, **2010**, 35, 3453-5	3	26
9	Single-laser, one beam, tetrahedral magneto-optical trap. *Optics Express*, **2009**, 17, 13601-8	3.3	35
8	Novel Gain Medium Design for Short-Wavelength Vertical-External-Cavity Surface-Emitting Laser. *IEEE Journal of Quantum Electronics*, **2007**, 43, 445-450	2	11
7	Efficient coupling of several broad area laser diodes into an optical fiber. *Review of Scientific Instruments*, **2006**, 77, 116101	1.7	3
6	Optical Ramsey spectroscopy of a single trapped Sr+88 ion. *Physical Review A*, **2004**, 70,	2.6	26
5	Optical in-well pumping of a vertical-external-cavity surface-emitting laser. *Applied Physics Letters*, **2004**, 84, 4860-4862	3.4	36
4	Ultra-short pulse compression using photonic crystal fibre. *Applied Physics B: Lasers and Optics*, **2004**, 78, 557-563	1.9	35
3	Laser cooling of calcium in a □golden ratio□quasi-electrostatic lattice. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2003**, 36, 1933-1942	1.3	7
2	0.5-W single transverse-mode operation of an 850-nm diode-pumped surface-emitting semiconductor laser. *IEEE Photonics Technology Letters*, **2003**, 15, 894-896	2.2	91
1	Reusable ultrahigh vacuum viewport bakeable to 240 □C. *Review of Scientific Instruments*, **2003**, 74, 3185-3187	1.7	6