

Erling Riis

List of Publications by Citations

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Version: 2024-04-27

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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.

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	0.5-W single transverse-mode operation of an 850-nm diode-pumped surface-emitting semiconductor laser. <i>IEEE Photonics Technology Letters</i> , 2003 , 15, 894-896	2.2	91
29	A surface-patterned chip as a strong source of ultracold atoms for quantum technologies. <i>Nature Nanotechnology</i> , 2013 , 8, 321-4	28.7	71
28	Enhanced frequency up-conversion in Rb vapor. <i>Optics Express</i> , 2010 , 18, 17020-6	3.3	61
27	Optical in-well pumping of a vertical-external-cavity surface-emitting laser. <i>Applied Physics Letters</i> , 2004 , 84, 4860-4862	3.4	36
26	Single-laser, one beam, tetrahedral magneto-optical trap. <i>Optics Express</i> , 2009 , 17, 13601-8	3.3	35
25	Ultra-short pulse compression using photonic crystal fibre. <i>Applied Physics B: Lasers and Optics</i> , 2004 , 78, 557-563	1.9	35
24	Grating chips for quantum technologies. <i>Scientific Reports</i> , 2017 , 7, 384	4.9	32
23	Phase-space properties of magneto-optical traps utilising micro-fabricated gratings. <i>Optics Express</i> , 2015 , 23, 8948-59	3.3	26
22	Laser cooling with a single laser beam and a planar diffractor. <i>Optics Letters</i> , 2010 , 35, 3453-5	3	26
21	Optical Ramsey spectroscopy of a single trapped Sr+88 ion. <i>Physical Review A</i> , 2004 , 70,	2.6	26
20	Spiral bandwidth of four-wave mixing in Rb vapour. <i>Communications Physics</i> , 2018 , 1,	5.4	25
19	Diffraction-grating characterization for cold-atom experiments. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016 , 33, 1271	1.7	19
18	Cavity-enhanced frequency up-conversion in rubidium vapor. <i>Optics Letters</i> , 2016 , 41, 2177-80	3	19
17	Cold-atom clock based on a diffractive optic. <i>Optics Express</i> , 2019 , 27, 38359-38366	3.3	18
16	Design and fabrication of diffractive atom chips for laser cooling and trapping. <i>Applied Physics B: Lasers and Optics</i> , 2016 , 122, 172	1.9	16
15	Laser cooling in a chip-scale platform. <i>Applied Physics Letters</i> , 2020 , 117, 054001	3.4	13
14	Free-Induction-Decay Magnetometer Based on a Microfabricated Cs Vapor Cell. <i>Physical Review Applied</i> , 2018 , 10,	4.3	12

13	Orientational effects on the amplitude and phase of polarimeter signals in double-resonance atomic magnetometry. <i>Physical Review A</i> , 2017 , 96,	2.6	12
12	Novel Gain Medium Design for Short-Wavelength Vertical-External-Cavity Surface-Emitting Laser. <i>IEEE Journal of Quantum Electronics</i> , 2007 , 43, 445-450	2	11
11	Gouy phase-matched angular and radial mode conversion in four-wave mixing. <i>Physical Review A</i> , 2021 , 103,	2.6	10
10	High-precision control of static magnetic field magnitude, orientation, and gradient using optically pumped vapour cell magnetometry. <i>Review of Scientific Instruments</i> , 2017 , 88, 043109	1.7	9
9	Laser cooling of calcium in a "golden ratio" quasi-electrostatic lattice. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003 , 36, 1933-1942	1.3	7
8	Reusable ultrahigh vacuum viewport bakeable to 240 °C. <i>Review of Scientific Instruments</i> , 2003 , 74, 3185-3187	1.87	6
7	Stand-alone vacuum cell for compact ultracold quantum technologies. <i>Applied Physics Letters</i> , 2021 , 119, 124002	3.4	5
6	A simple imaging solution for chip-scale laser cooling. <i>Applied Physics Letters</i> , 2021 , 119, 184002	3.4	4
5	A feed-forward measurement scheme for periodic noise suppression in atomic magnetometry. <i>Review of Scientific Instruments</i> , 2020 , 91, 045103	1.7	4
4	Efficient coupling of several broad area laser diodes into an optical fiber. <i>Review of Scientific Instruments</i> , 2006 , 77, 116101	1.7	3
3	Optical characterisation of micro-fabricated Fresnel zone plates for atomic waveguides. <i>Optics Express</i> , 2020 , 28, 9072-9081	3.3	3
2	Intensity stabilisation of optical pulse sequences for coherent control of laser-driven qubits. <i>Applied Physics B: Lasers and Optics</i> , 2018 , 124, 1	1.9	2
1	Impact of Laser Frequency Noise in Coherent Population Trapping with Cold Atoms 2019 ,		1