

# Robert Jâ€™c Spreeuw

## List of Publications by Year in descending order

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49  
papers

10,425  
citations

279798

23  
h-index

206112

48  
g-index

49  
all docs

49  
docs citations

49  
times ranked

6563  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spiraling light: from donut modes to a Magnus effect analogy. <i>Nanophotonics</i> , 2022, 11, 633-644.	6.0	5
2	Narrow-line imaging of single strontium atoms in shallow optical tweezers. <i>Physical Review Research</i> , 2022, 4, .	3.6	5
3	Off-Axis Dipole Forces in Optical Tweezers by an Optical Analog of the Magnus Effect. <i>Physical Review Letters</i> , 2020, 125, 233201.	7.8	5
4	Collective suppression of optical hyperfine pumping in dense clouds of atoms in microtraps. <i>Physical Review A</i> , 2019, 100, .	2.5	10
5	Electromagnetically induced transparency with Rydberg atoms across the Breit-Rabi regime. <i>SciPost Physics</i> , 2017, 2, .	4.9	10
6	Entanglement generation between spinor Bose-Einstein condensates using Rydberg excitations. <i>Physical Review A</i> , 2016, 93, .	2.5	18
7	Measurement of $^{87}\text{Rb}$ Rydberg-state hyperfine splitting in a room-temperature vapor cell. <i>Physical Review A</i> , 2013, 87, .	2.5	28
8	Sensitive absorption imaging of single atoms in front of a mirror. <i>Optics Express</i> , 2013, 21, 10188.	3.4	2
9	Microtrap arrays on magnetic film atom chips for quantum information science. <i>Quantum Information Processing</i> , 2011, 10, 955-974.	2.2	35
10	Detection of small atom numbers through image processing. <i>Physical Review A</i> , 2010, 82, .	2.5	72
11	Sub-Poissonian Atom-Number Fluctuations by Three-Body Loss in Mesoscopic Ensembles. <i>Physical Review Letters</i> , 2010, 104, 120402.	7.8	30
12	Optimized magnetic lattices for ultracold atomic ensembles. <i>New Journal of Physics</i> , 2010, 12, 103029.	2.9	24
13	Robust quantum searching with spontaneously decaying qubits. <i>Physical Review A</i> , 2007, 76, .	2.5	8
14	Fabrication of magnetic atom chips based on FePt. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 313, 192-197.	2.3	15
15	QED-modified radiative properties and dynamics of cold atoms moving through an evanescent wave. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2005, 99, 459-465.	0.6	2
16	Observation of modified radiative properties of cold atoms in vacuum near a dielectric surface. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2004, 6, 454-459.	1.4	13
17	Power-efficient frequency switching of a locked laser. <i>Applied Physics B: Lasers and Optics</i> , 2004, 78, 19-23.	2.2	1
18	Implementation of Quantum Search Algorithm using Classical Fourier Optics. <i>Physical Review Letters</i> , 2002, 88, 137901.	7.8	144

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19	Guiding of cold atoms by a red-detuned laser beam of moderate power. <i>New Journal of Physics</i> , 2002, 4, 69-69.	2.9	13
20	Characterization of a high-power tapered semiconductor amplifier system. <i>Applied Physics B: Lasers and Optics</i> , 2001, 72, 279-284.	2.2	21
21	Classical wave-optics analogy of quantum-information processing. <i>Physical Review A</i> , 2001, 63, .	2.5	134
22	Coherence-driven gain and its possible measurement in pump-probe experiments. <i>Optics Communications</i> , 2000, 179, 505-516.	2.1	1
23	A Classical Analogy of Entanglement. <i>Foundations of Physics</i> , 1998, 28, 361-374.	1.3	269
24	Synchronously pumped laser without inversion in cadmium. <i>Physical Review A</i> , 1998, 57, 4869-4876.	2.5	18
25	Two-dimensional magneto-optical trap as a source of slow atoms. <i>Physical Review A</i> , 1998, 58, 3891-3895.	2.5	212
26	Atoms in the Lowest Motional Band of a Three-Dimensional Optical Lattice. <i>Physical Review Letters</i> , 1997, 78, 1038-1041.	7.8	56
27	Quantum Zeno effect and V-scheme lasing without inversion. <i>Physical Review A</i> , 1997, 55, 3918-3922.	2.5	20
28	Towards a laser-like source of atoms. <i>Progress in Crystal Growth and Characterization of Materials</i> , 1996, 33, 385-393.	4.0	2
29	Achromatic lenses for atoms using velocity-dependent light-induced potentials. <i>Optics Communications</i> , 1996, 125, 77-81.	2.1	6
30	Adiabatic Cooling of Cesium to 700 nK in an Optical Lattice. <i>Physical Review Letters</i> , 1995, 74, 1542-1545.	7.8	224
31	Photonic band gaps in optical lattices. <i>Physical Review A</i> , 1995, 52, 1394-1410.	2.5	168
32	Laser-like Scheme for Atomic-Matter Waves. <i>Europhysics Letters</i> , 1995, 32, 469-474.	2.0	124
33	Coherent transfer of photon momentum by adiabatic following in a dark state. <i>Journal of the European Optical Society Part B: Quantum Optics</i> , 1994, 6, 387-389.	1.2	15
34	Momentum transfer in laser-cooled cesium by adiabatic passage in a light field. <i>Physical Review Letters</i> , 1994, 72, 997-1000.	7.8	152
35	Demonstration of neutral atom trapping with microwaves. <i>Physical Review Letters</i> , 1994, 72, 3162-3165.	7.8	65
36	Neoclassical radiation theory as an integral part of the Monte Carlo wave-function method. <i>Physical Review A</i> , 1994, 49, 4170-4175.	2.5	10

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37	Optical ring cavities as tailored four-level systems: An application of the group U(2,2). Physical Review A, 1992, 45, 1213-1229.	2.5	19
38	Dynamics of a ring-laser gyroscope with backscattering. Physical Review A, 1992, 46, 525-536.	2.5	35
39	Observation of quantized motion of Rb atoms in an optical field. Physical Review Letters, 1992, 69, 49-52.	7.8	294
40	Orbital angular momentum of light and the transformation of Laguerre-Gaussian laser modes. Physical Review A, 1992, 45, 8185-8189.	2.5	7,800
41	Multiphoton resonances and Bloch-Siegert shifts observed in a classical two-level system. Physical Review A, 1992, 45, 1810-1815.	2.5	33
42	The driven optical ring resonator as a model system for quantum optics. Physica B: Condensed Matter, 1991, 175, 96-110.	2.7	8
43	Limitations to the realization of the Jaynes-Cummings model with electric-dipole coupling. Physical Review A, 1991, 44, 4765-4766.	2.5	2
44	Band gap reflections in the photon band structure. Optics Communications, 1990, 75, 141-144.	2.1	11
45	Mode coupling in a He-Ne ring laser with backscattering. Physical Review A, 1990, 42, 4315-4324.	2.5	81
46	Classical realization of a strongly driven two-level system. Physical Review Letters, 1990, 65, 2642-2645.	7.8	84
47	Photon Band Structure in a Sagnac Fiber-Optic Ring Resonator. Physical Review Letters, 1988, 61, 318-321.	7.8	43
48	Observation of surface light-induced drift. Physical Review Letters, 1987, 59, 447-449.	7.8	58
49	Solving correlation clustering with QAOA and a Rydberg qudit system: a full-stack approach. Quantum - the Open Journal for Quantum Science, 0, 6, 687.	0.0	20