

Tilman Pfau

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206
papers

13,727
citations

57
h-index

114
g-index

225
ext. papers

15,495
ext. citations

7.5
avg, IF

6.4
L-index

#	Paper	IF	Citations
206	Plasmonic analogue of electromagnetically induced transparency at the Drude damping limit. <i>Nature Materials</i> , 2009 , 8, 758-62	27	1405
205	The physics of dipolar bosonic quantum gases. <i>Reports on Progress in Physics</i> , 2009 , 72, 126401	14.4	1030
204	Bose-Einstein condensation of chromium. <i>Physical Review Letters</i> , 2005 , 94, 160401	7.4	887
203	Strong dipolar effects in a quantum ferrofluid. <i>Nature</i> , 2007 , 448, 672-5	50.4	398
202	Observation of dipole-dipole interaction in a degenerate quantum gas. <i>Physical Review Letters</i> , 2005 , 95, 150406	7.4	370
201	Observation of Quantum Droplets in a Strongly Dipolar Bose Gas. <i>Physical Review Letters</i> , 2016 , 116, 215301	7.4	322
200	Stabilization of a purely dipolar quantum gas against collapse. <i>Nature Physics</i> , 2008 , 4, 218-222	16.2	319
199	Observing the Rosensweig instability of a quantum ferrofluid. <i>Nature</i> , 2016 , 530, 194-7	50.4	307
198	Observation of ultralong-range Rydberg molecules. <i>Nature</i> , 2009 , 458, 1005-8	50.4	295
197	Bose-Einstein condensation with magnetic dipole-dipole forces. <i>Physical Review A</i> , 2000 , 61,	2.6	277
196	Evidence for coherent collective Rydberg excitation in the strong blockade regime. <i>Physical Review Letters</i> , 2007 , 99, 163601	7.4	271
195	Microwave electrometry with Rydberg atoms in a vapour cell using bright atomic resonances. <i>Nature Physics</i> , 2012 , 8, 819-824	16.2	268
194	d-wave collapse and explosion of a dipolar bose-einstein condensate. <i>Physical Review Letters</i> , 2008 , 101, 080401	7.4	257
193	Tuning the dipolar interaction in quantum gases. <i>Physical Review Letters</i> , 2002 , 89, 130401	7.4	250
192	Self-bound droplets of a dilute magnetic quantum liquid. <i>Nature</i> , 2016 , 539, 259-262	50.4	238
191	Measurement of the Wigner function of an ensemble of helium atoms. <i>Nature</i> , 1997 , 386, 150-153	50.4	197
190	Quantum critical behavior in strongly interacting Rydberg gases. <i>Physical Review Letters</i> , 2008 , 101, 250601	7.4	169

189	An experimental and theoretical guide to strongly interacting Rydberg gases. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012 , 45, 113001	1.3	168
188	Phase-coherent amplification of atomic matter waves. <i>Nature</i> , 1999 , 402, 641-644	50.4	165
187	Spin-3 chromium Bose-Einstein condensates. <i>Physical Review Letters</i> , 2006 , 96, 190404	7.4	150
186	Observation of Feshbach resonances in an ultracold gas of ^{52}Cr . <i>Physical Review Letters</i> , 2005 , 94, 183201	7.4	136
185	Collective many-body interaction in Rydberg dressed atoms. <i>Physical Review Letters</i> , 2010 , 105, 160404	7.4	128
184	Coherent excitation of Rydberg atoms in micrometre-sized atomic vapour cells. <i>Nature Photonics</i> , 2010 , 4, 112-116	33.9	127
183	Transient Supersolid Properties in an Array of Dipolar Quantum Droplets. <i>Physical Review X</i> , 2019 , 9,	9.1	120
182	Amplification of light and atoms in a bose-einstein condensate. <i>Physical Review Letters</i> , 2000 , 85, 4225-87	7.4	116
181	Laser-like Scheme for Atomic-Matter Waves. <i>Europhysics Letters</i> , 1995 , 32, 469-474	1.6	115
180	Loss of spatial coherence by a single spontaneous emission. <i>Physical Review Letters</i> , 1994 , 73, 1223-1226	7.4	115
179	Coupling a single electron to a Bose-Einstein condensate. <i>Nature</i> , 2013 , 502, 664-7	50.4	112
178	A homonuclear molecule with a permanent electric dipole moment. <i>Science</i> , 2011 , 334, 1110-4	33.3	112
177	Rydberg trimers and excited dimers bound by internal quantum reflection. <i>Physical Review Letters</i> , 2010 , 105, 163201	7.4	108
176	Rydberg excitation of Bose-Einstein condensates. <i>Physical Review Letters</i> , 2008 , 100, 033601	7.4	104
175	Experimental demonstration of the optical Stern-Gerlach effect. <i>Physical Review Letters</i> , 1992 , 68, 1996-1999	7.4	104
174	Comparing contact and dipolar interactions in a Bose-Einstein condensate. <i>Physical Review Letters</i> , 2006 , 97, 250402	7.4	103
173	Strongly Correlated Growth of Rydberg Aggregates in a Vapor Cell. <i>Physical Review Letters</i> , 2015 , 114, 203002	7.4	101
172	Artificial atoms can do more than atoms: deterministic single photon subtraction from arbitrary light fields. <i>Physical Review Letters</i> , 2011 , 107, 093601	7.4	101

171	Rydberg dressing: understanding of collective many-body effects and implications for experiments. <i>New Journal of Physics</i> , 2014 , 16, 063012	2.9	95
170	From molecular spectra to a density shift in dense Rydberg gases. <i>Nature Communications</i> , 2014 , 5, 4546	17.4	94
169	Magneto-optical beam splitter for atoms. <i>Physical Review Letters</i> , 1993 , 71, 3427-3430	7.4	80
168	Quasi-2D Gas of Laser Cooled Atoms in a Planar Matter Waveguide. <i>Physical Review Letters</i> , 1998 , 81, 5298-5301	7.4	78
167	Hexagonal nanostructures generated by light masks for neutral atoms. <i>Applied Physics B: Lasers and Optics</i> , 1997 , 65, 755-759	1.9	77
166	Imaging and focusing of an atomic beam with a large period standing light wave. <i>Applied Physics B, Photophysics and Laser Chemistry</i> , 1992 , 54, 375-379		77
165	Alignment of D-state Rydberg molecules. <i>Physical Review Letters</i> , 2014 , 112, 143008	7.4	75
164	Dipolar relaxation in an ultra-cold gas of magnetically trapped chromium atoms. <i>Applied Physics B: Lasers and Optics</i> , 2003 , 77, 765-772	1.9	73
163	Universal scaling in a strongly interacting Rydberg gas. <i>Physical Review A</i> , 2009 , 80,	2.6	71
162	High-order Talbot fringes for atomic matter waves. <i>Optics Letters</i> , 1997 , 22, 1430-2	3	71
161	Echo experiments in a strongly interacting Rydberg gas. <i>Physical Review Letters</i> , 2008 , 100, 013002	7.4	71
160	Rydberg atoms in hollow-core photonic crystal fibres. <i>Nature Communications</i> , 2014 , 5, 4132	17.4	69
159	Stability of a dipolar Bose-Einstein condensate in a one-dimensional lattice. <i>Physical Review A</i> , 2011 , 84,	2.6	67
158	A room-temperature single-photon source based on strongly interacting Rydberg atoms. <i>Science</i> , 2018 , 362, 446-449	33.3	67
157	Emergence of Chaotic Scattering in Ultracold Er and Dy. <i>Physical Review X</i> , 2015 , 5,	9.1	64
156	The low-energy Goldstone mode in a trapped dipolar supersolid. <i>Nature</i> , 2019 , 574, 386-389	50.4	63
155	Shadows and Mirrors: Reconstructing Quantum States of Atom Motion. <i>Physics Today</i> , 1998 , 51, 22-28	0.9	63
154	Mesoscopic ensembles of polar bosons in triple-well potentials. <i>Physical Review Letters</i> , 2010 , 104, 170404	9.4	62

153	Intense source of cold Rb atoms from a pure two-dimensional magneto-optical trap. <i>Physical Review A</i> , 2002 , 66,	2.6	62
152	Quantum correlations and entanglement in far-from-equilibrium spin systems. <i>Physical Review A</i> , 2014 , 90,	2.6	61
151	Striped states in a many-body system of tilted dipoles. <i>Physical Review A</i> , 2017 , 96,	2.6	59
150	Demagnetization cooling of a gas. <i>Nature Physics</i> , 2006 , 2, 765-768	16.2	58
149	Highly resolved measurements of Stark-tuned F ₁ ster resonances between Rydberg atoms. <i>Physical Review Letters</i> , 2012 , 108, 113001	7.4	54
148	Continuous loading of a magnetic trap. <i>Physical Review A</i> , 2001 , 64,	2.6	54
147	Atoms in the Lowest Motional Band of a Three-Dimensional Optical Lattice. <i>Physical Review Letters</i> , 1997 , 78, 1038-1041	7.4	52
146	One-, two-and three-dimensional nanostructures with atom lithography. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, R233-R255	1.8	52
145	Probing an Electron Scattering Resonance using Rydberg Molecules within a Dense and Ultracold Gas. <i>Physical Review Letters</i> , 2016 , 116, 053001	7.4	51
144	Expansion dynamics of a dipolar Bose-Einstein condensate. <i>Physical Review A</i> , 2006 , 74,	2.6	51
143	Evidence for strong van der Waals type Rydberg-Rydberg interaction in a thermal vapor. <i>Physical Review Letters</i> , 2013 , 110, 123001	7.4	50
142	Broad universal Feshbach resonances in the chaotic spectrum of dysprosium atoms. <i>Physical Review A</i> , 2015 , 92,	2.6	49
141	Ionic Impurity in a Bose-Einstein Condensate at Submicrokelvin Temperatures. <i>Physical Review Letters</i> , 2018 , 120, 193401	7.4	47
140	Observation of mixed singlet-triplet Rb ₂ Rydberg molecules. <i>Physical Review A</i> , 2016 , 93,	2.6	45
139	GHz Rabi flopping to Rydberg states in hot atomic vapor cells. <i>Physical Review Letters</i> , 2011 , 107, 243001	7.4	45
138	Nanometerscale lithography with chromium atoms using light forces. <i>Microelectronic Engineering</i> , 1997 , 35, 285-288	2.5	44
137	Investigation of dephasing rates in an interacting Rydberg gas. <i>New Journal of Physics</i> , 2009 , 11, 055014	2.9	43
136	Atomic vapor spectroscopy in integrated photonic structures. <i>Applied Physics Letters</i> , 2015 , 107, 041101	3.4	42

135	Atom-molecule coherence for ultralong-range Rydberg dimers. <i>Nature Physics</i> , 2010 , 6, 970-974	16.2	42
134	Lifetimes of ultralong-range Rydberg molecules in vibrational ground and excited states. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011 , 44, 184004	1.3	42
133	Nanolithography with metastable helium. <i>Applied Physics B: Lasers and Optics</i> , 1996 , 63, 203-205	1.9	42
132	Ultracold Chemical Reactions of a Single Rydberg Atom in a Dense Gas. <i>Physical Review X</i> , 2016 , 6,	9.1	42
131	Four-wave mixing involving Rydberg states in thermal vapor. <i>Physical Review A</i> , 2012 , 85,	2.6	41
130	Proposal for a Magneto-optical Beam Splitter for Atoms. <i>Europhysics Letters</i> , 1993 , 21, 439-444	1.6	40
129	Liquid quantum droplets of ultracold magnetic atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016 , 49, 214004	1.3	39
128	Fabrication method for microscopic vapor cells for alkali atoms. <i>Optics Letters</i> , 2010 , 35, 1950-2	3	39
127	Scissors Mode of Dipolar Quantum Droplets of Dysprosium Atoms. <i>Physical Review Letters</i> , 2018 , 120, 160402	7.4	38
126	Spinor condensates with a laser-induced quadratic Zeeman effect. <i>Physical Review A</i> , 2007 , 75,	2.6	38
125	Dilute dipolar quantum droplets beyond the extended Gross-Pitaevskii equation. <i>Physical Review Research</i> , 2019 , 1,	3.9	37
124	Production of a chromium Bose-Einstein condensate. <i>Applied Physics B: Lasers and Optics</i> , 2006 , 82, 211-216		36
123	Determination of the s-wave scattering length of chromium. <i>Physical Review Letters</i> , 2003 , 91, 193201	7.4	35
122	Room-temperature Rydberg single-photon source. <i>Physical Review A</i> , 2013 , 87,	2.6	33
121	Ballistic expansion of a dipolar condensate. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2003 , 5, S208-S211		33
120	A magneto-optical trap for chromium with population repumping via intercombination lines. <i>Europhysics Letters</i> , 1999 , 45, 156-161	1.6	33
119	Observation of Rydberg Blockade Induced by a Single Ion. <i>Physical Review Letters</i> , 2018 , 121, 193401	7.4	33
118	Electrical readout for coherent phenomena involving Rydberg atoms in thermal vapor cells. <i>Physical Review Letters</i> , 2013 , 110, 123002	7.4	32

117	Coherent collapses of dipolar Bose-Einstein condensates for different trap geometries. <i>New Journal of Physics</i> , 2009 , 11, 055032	2.9	32
116	A lattice of magneto-optical and magnetic traps for cold atoms. <i>European Physical Journal D</i> , 2003 , 22, 347-354	1.3	32
115	New states of matter with fine-tuned interactions: quantum droplets and dipolar supersolids. <i>Reports on Progress in Physics</i> , 2021 , 84, 012403	14.4	32
114	Rydberg Molecules for Ion-Atom Scattering in the Ultracold Regime. <i>Physical Review Letters</i> , 2018 , 120, 153401	7.4	29
113	Continuous loading of a conservative potential trap from an atomic beam. <i>Physical Review Letters</i> , 2011 , 106, 163002	7.4	28
112	Stable periodic density waves in dipolar Bose-Einstein condensates trapped in optical lattices. <i>Physical Review Letters</i> , 2012 , 108, 140402	7.4	28
111	Mean-field description of dipolar bosons in triple-well potentials. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012 , 45, 225302	1.3	27
110	Onset of a modulational instability in trapped dipolar Bose-Einstein condensates. <i>Physical Review A</i> , 2018 , 97,	2.6	26
109	Narrow-line magneto-optical trap for dysprosium atoms. <i>Optics Letters</i> , 2014 , 39, 3138-41	3	26
108	Imaging single Rydberg electrons in a Bose-Einstein condensate. <i>New Journal of Physics</i> , 2015 , 17, 053046.	6.9	25
107	Observation of correlated atom-photon pairs on the single-particle level. <i>Physical Review A</i> , 1997 , 55, R2539-R2542	2.6	25
106	Photoassociation of Trilobite Rydberg Molecules via Resonant Spin-Orbit Coupling. <i>Physical Review Letters</i> , 2017 , 118, 223001	7.4	24
105	Dipolar interaction in ultra-cold atomic gases. <i>AIP Conference Proceedings</i> , 2008 ,	0	24
104	Fate of the Amplitude Mode in a Trapped Dipolar Supersolid. <i>Physical Review Letters</i> , 2019 , 123, 193002.	7.4	23
103	Critical temperature of weakly interacting dipolar condensates. <i>Physical Review Letters</i> , 2007 , 98, 080407.	7.4	23
102	Structured doping with light forces. <i>Applied Physics Letters</i> , 2001 , 78, 1781-1783	3.4	23
101	Nano-lithography with atoms. <i>Surface Science</i> , 1999 , 433-435, 40-47	1.8	23
100	Atomic Pair-State Interferometer: Controlling and Measuring an Interaction-Induced Phase Shift in Rydberg-Atom Pairs. <i>Physical Review X</i> , 2012 , 2,	9.1	22

99	Hybridization of Rydberg Electron Orbitals by Molecule Formation. <i>Physical Review Letters</i> , 2015 , 115, 023001	7.4	21
98	Continuous loading of cold atoms into a Ioffe-Pritchard magnetic trap. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2003 , 5, S170-S177		21
97	Charged Wire Interferometer for Atoms. <i>Physical Review Letters</i> , 1998 , 81, 5792-5795	7.4	21
96	Quantum technology: from research to application. <i>Applied Physics B: Lasers and Optics</i> , 2016 , 122, 1	1.9	21
95	Polarization gradient light masks in atom lithography. <i>Europhysics Letters</i> , 1999 , 46, 148-153	1.6	20
94	Coupling thermal atomic vapor to an integrated ring resonator. <i>New Journal of Physics</i> , 2016 , 18, 103031	2.9	20
93	Triple stack glass-to-glass anodic bonding for optogalvanic spectroscopy cells with electrical feedthroughs. <i>Applied Physics Letters</i> , 2014 , 105, 041107	3.4	19
92	Doppler cooling of an optically dense cloud of magnetically trapped atoms. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003 , 20, 960	1.7	19
91	Writing a superlattice with light forces. <i>Applied Physics B: Lasers and Optics</i> , 2000 , 70, 671-674	1.9	19
90	Interaction of atoms with a magneto-optical potential. <i>Physical Review A</i> , 1993 , 48, 2108-2116	2.6	19
89	Coupling Thermal Atomic Vapor to Slot Waveguides. <i>Physical Review X</i> , 2018 , 8,	9.1	18
88	Precision Spectroscopy of Negative-Ion Resonances in Ultralong-Range Rydberg Molecules. <i>Physical Review Letters</i> , 2019 , 123, 073003	7.4	18
87	Nanolithography with neutral chromium and helium atoms. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1997 , 15, 2905		18
86	Integrated atom-optical circuit with continuous-wave operation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003 , 20, 648	1.7	17
85	Raman cooling of spin-polarized cesium atoms in a crossed dipole trap. <i>Europhysics Letters</i> , 1999 , 46, 141-147	1.6	17
84	Controlling Rydberg atom excitations in dense background gases. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016 , 49, 182001	1.3	17
83	Rydberg polaritons in a thermal vapor. <i>Physical Review A</i> , 2016 , 93,	2.6	16
82	Anisotropic Superfluid Behavior of a Dipolar Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2018 , 121, 030401	7.4	16

81	Fabrication and characterization of an electrically contacted vapor cell. <i>Optics Letters</i> , 2012 , 37, 2271-3	3	16
80	Continuous optical loading of a Bose-Einstein condensate. <i>Physical Review A</i> , 2001 , 63,	2.6	16
79	Atom lithography using light forces. <i>Microelectronic Engineering</i> , 1996 , 30, 383-386	2.5	16
78	Sub-100 nm structures by neutral atom lithography. <i>Microelectronic Engineering</i> , 1999 , 46, 105-108	2.5	15
77	Partial reconstruction of the motional Wigner function of an ensemble of helium atoms. <i>Journal of Modern Optics</i> , 1997 , 44, 2551-2564	1.1	14
76	Collective oscillations of dipolar Bose-Einstein condensates and accurate comparison between contact and dipolar interactions. <i>Physical Review A</i> , 2007 , 75,	2.6	14
75	Lithography using nano-lens arrays made of light. <i>Journal of Modern Optics</i> , 1997 , 44, 1883-1898	1.1	13
74	Trapping atoms on a transparent permanent-magnet atom chip. <i>Physical Review A</i> , 2006 , 73,	2.6	13
73	Loading chromium atoms in a magnetic guide. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007 , 40, F77-F84	1.3	13
72	High resolution Rydberg spectroscopy of ultracold rubidium atoms. <i>Fortschritte Der Physik</i> , 2006 , 54, 765-775	5.7	13
71	Depolarisation cooling of an atomic cloud. <i>Europhysics Letters</i> , 2005 , 71, 918-924	1.6	13
70	Motion-induced signal revival in pulsed Rydberg four-wave mixing beyond the frozen-gas limit. <i>Physical Review A</i> , 2014 , 90,	2.6	12
69	Probing the light-induced dipole-dipole interaction in momentum space. <i>Europhysics Letters</i> , 2005 , 71, 214-220	1.6	12
68	Rapid communication Pattern generation with cesium atomic beams at nanometer scales. <i>Applied Physics B: Lasers and Optics</i> , 1996 , 63, 649-652	1.9	12
67	Transport of a Single Cold Ion Immersed in a Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2021 , 126, 033401	7.4	12
66	A fermionic impurity in a dipolar quantum droplet. <i>Physica Scripta</i> , 2018 , 93, 104004	2.6	12
65	Quantum liquids get thin. <i>Science</i> , 2018 , 359, 274-275	33.3	11
64	A proposal for continuous loading of an optical dipole trap with magnetically guided ultra-cold atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009 , 42, 245302	1.3	11

63	Loading atoms into a surface trap: simulations of an experimental scheme. <i>Optics Communications</i> , 1997 , 143, 125-132	2	11
62	Focus on Atom Optics and its Applications. <i>New Journal of Physics</i> , 2010 , 12, 065014	2.9	10
61	Deconfinement-induced collapse of a coherent array of dipolar Bose-Einstein condensates. <i>Physical Review A</i> , 2012 , 86,	2.6	10
60	High efficiency demagnetization cooling by suppression of light-assisted collisions. <i>Optics Express</i> , 2015 , 23, 5596-606	3.3	9
59	Cavity QED based on room temperature atoms interacting with a photonic crystal cavity: a feasibility study. <i>Applied Physics B: Lasers and Optics</i> , 2020 , 126, 1	1.9	9
58	Correlations of a quasi-two-dimensional dipolar ultracold gas at finite temperatures. <i>Physical Review A</i> , 2013 , 87,	2.6	9
57	Two-frequency acousto-optic modulator driver to improve the beam pointing stability during intensity ramps. <i>Review of Scientific Instruments</i> , 2007 , 78, 043101	1.7	9
56	A two species trap for chromium and rubidium atoms. <i>Journal of Modern Optics</i> , 2004 , 51, 1807-1816	1.1	9
55	Inelastic collision dynamics of a single cold ion immersed in a Bose-Einstein condensate. <i>Physical Review A</i> , 2020 , 102,	2.6	9
54	Roton Excitations in an Oblate Dipolar Quantum Gas. <i>Physical Review Letters</i> , 2021 , 126, 193002	7.4	9
53	Pattern formation in quantum ferrofluids: From supersolids to superglasses. <i>Physical Review Research</i> , 2021 , 3,	3.9	9
52	Interplay between thermal Rydberg gases and plasmas. <i>Physical Review A</i> , 2019 , 99,	2.6	8
51	High- and low-frequency phonon modes in dipolar quantum gases trapped in deep lattices. <i>Physical Review A</i> , 2013 , 87,	2.6	8
50	Driving dipolar fermions into the quantum Hall regime by spin-flip induced insertion of angular momentum. <i>Physical Review Letters</i> , 2013 , 110, 145303	7.4	8
49	Laser cooling of a magnetically guided ultracold atom beam. <i>New Journal of Physics</i> , 2010 , 12, 065018	2.9	8
48	Atomic lithography. <i>Microelectronic Engineering</i> , 1998 , 41-42, 587-590	2.5	8
47	Ultracold chromium atoms: from Feshbach resonances to a dipolar Bose-Einstein condensate. <i>Journal of Modern Optics</i> , 2007 , 54, 647-660	1.1	8
46	Atom nanolithography with multilayer light masks: Particle optics analysis. <i>Physical Review A</i> , 2005 , 72,	2.6	8

45	Revivals and oscillations of the momentum of light in a planar multimode waveguide. <i>Physical Review Letters</i> , 2001 , 87, 123901	7.4	8
44	Time-resolved detection of atoms diffracted from a standing light wave. <i>Applied Physics B: Lasers and Optics</i> , 1995 , 60, 229-232	1.9	8
43	Coherent excitation of a He* beam observed in atomic momentum distributions. <i>Optics Communications</i> , 1996 , 123, 505-511	2	8
42	Density Fluctuations across the Superfluid-Supersolid Phase Transition in a Dipolar Quantum Gas. <i>Physical Review X</i> , 2021 , 11,	9.1	8
41	Proof of concept for an optogalvanic gas sensor for NO based on Rydberg excitations. <i>Applied Physics Letters</i> , 2018 , 113, 011113	3.4	7
40	A high flux of ultra-cold chromium atoms in a magnetic guide. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009 , 42, 145306	1.3	7
39	Double-slit experiments with correlated atom - photon states. <i>Quantum and Semiclassical Optics: Journal of the European Optical Society Part B</i> , 1996 , 8, 665-671		7
38	Narrow bandwidth electromagnetically induced transparency in optically trapped atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007 , 40, 1907-1915	1.3	7
37	Efficient demagnetization cooling of atoms and its limits. <i>Physical Review A</i> , 2014 , 89,	2.6	6
36	Spectroscopy of a narrow-line optical pumping transition in atomic dysprosium. <i>Optics Letters</i> , 2013 , 38, 637-9	3	6
35	Sisyphus cooling in a continuously loaded trap. <i>New Journal of Physics</i> , 2013 , 15, 093012	2.9	5
34	Ground state of a two-component dipolar Fermi gas in a harmonic potential. <i>Physical Review A</i> , 2013 , 88,	2.6	5
33	Detection of cold metastable atoms at a surface. <i>Review of Scientific Instruments</i> , 2003 , 74, 2685-2689	1.7	5
32	A Heisenberg Microscope for Atoms. <i>Annals of the New York Academy of Sciences</i> , 1995 , 755, 162-172	6.5	5
31	A new state of matter of quantum droplets. <i>Frontiers of Physics</i> , 2021 , 16, 1	3.7	5
30	Pulsed Ion Microscope to Probe Quantum Gases. <i>Physical Review X</i> , 2021 , 11,	9.1	5
29	Writing nanostructures with a metastable helium beam. <i>Microelectronic Engineering</i> , 1997 , 35, 427-430	2.5	4
28	Neue Entwicklungen in der Atomoptik. <i>Physik Journal</i> , 1994 , 50, 45-50		4

27	Supersolidity in Two-Dimensional Trapped Dipolar Droplet Arrays. <i>Physical Review Letters</i> , 2021 , 127, 155301	7.4	4
26	Photoassociation of spin-polarized chromium. <i>Physical Review A</i> , 2016 , 93,	2.6	3
25	Low retaining force optical viewport seal. <i>Review of Scientific Instruments</i> , 2007 , 78, 046107	1.7	3
24	Atom optics. Continuous progress on atom lasers. <i>Science</i> , 2002 , 296, 2155-6	33.3	3
23	Pattern generation with cesium atomic beams at nanometer scales. <i>Applied Physics B: Lasers and Optics</i> , 1996 , 63, 649-652	1.9	3
22	Integrating two-photon nonlinear spectroscopy of rubidium atoms with silicon photonics. <i>Optics Express</i> , 2020 , 28, 19593-19607	3.3	3
21	Highly customized 1010 nm, ns-pulsed Yb-doped fiber amplifier as a key tool for on-demand single-photon generation. <i>Optics Express</i> , 2020 , 28, 17362-17373	3.3	3
20	Plasmonic EIT at the Drude damping limit 2009 ,		2
19	Nanometer-scale lithography with chromium and helium atoms 1997 , 2995, 80		2
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