

Tilman Pfau

List of Publications by Year in descending order

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224
papers

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citations

18482

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226
all docs

226
docs citations

226
times ranked

6813
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological Quantum Critical Points in the Extended Bose-Hubbard Model. Physical Review Letters, 2022, 128, 043402.	7.8	23
2	Transient Density-Induced Dipolar Interactions in a Thin Vapor Cell. Physical Review Letters, 2022, 128, 173401.	7.8	4
3	Purcell-enhanced dipolar interactions in nanostructures. Physical Review Research, 2022, 4, .	3.6	5
4	Observation of a molecular bond between ions and Rydberg atoms. Nature, 2022, 605, 453-456.	27.8	16
5	Error budgeting for a controlled-phase gate with strontium-88 Rydberg atoms. Physical Review Research, 2022, 4, .	3.6	28
6	Commissioning of a Highly Customized 1010 nm, ns-Pulsed, Yb-Doped Fiber Amplifier for On-Demand Single-Photon Generation. , 2021, , .		0
7	New states of matter with fine-tuned interactions: quantum droplets and dipolar supersolids. Reports on Progress in Physics, 2021, 84, 012403.	20.1	122
8	Transport of a Single Cold Ion Immersed in a Bose-Einstein Condensate. Physical Review Letters, 2021, 126, 033401.	7.8	27
9	Limit cycle phase and Goldstone mode in driven dissipative systems. Physical Review A, 2021, 103, .	2.5	5
10	Density Fluctuations across the Superfluid-Supersolid Phase Transition in a Dipolar Quantum Gas. Physical Review X, 2021, 11, .	8.9	32
11	Pulsed Ion Microscope to Probe Quantum Gases. Physical Review X, 2021, 11, .	8.9	21
12	Atomic Faraday beam splitter for light generated from pump-degenerate four-wave mixing in a hollow-core photonic crystal fiber. Physical Review A, 2021, 103, .	2.5	12
13	Roton Excitations in an Oblate Dipolar Quantum Gas. Physical Review Letters, 2021, 126, 193002.	7.8	38
14	Pattern formation in quantum ferrofluids: From supersolids to superglasses. Physical Review Research, 2021, 3, .	3.6	54
15	A new state of matter of quantum droplets. Frontiers of Physics, 2021, 16, 1.	5.0	28
16	Supersolidity in Two-Dimensional Trapped Dipolar Droplet Arrays. Physical Review Letters, 2021, 127, 155301.	7.8	30
17	Towards an Optogalvanic Flux Sensor for Nitric Oxide Based on Rydberg Excitation. , 2021, , .		0
18	Inelastic collision dynamics of a single cold ion immersed in a Bose-Einstein condensate. Physical Review A, 2020, 102, .	2.5	19

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19	An optogalvanic gas sensor based on Rydberg excitations. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 094001.	1.5	4
20	Cavity QED based on room temperature atoms interacting with a photonic crystal cavity: a feasibility study. Applied Physics B: Lasers and Optics, 2020, 126, 1.	2.2	11
21	Integrating two-photon nonlinear spectroscopy of rubidium atoms with silicon photonics. Optics Express, 2020, 28, 19593.	3.4	5
22	Highly customized 1010-nm, ns-pulsed Yb-doped fiber amplifier as a key tool for on-demand single-photon generation. Optics Express, 2020, 28, 17362.	3.4	6
23	Precision Spectroscopy of Negative-Ion Resonances in Ultralong-Range Rydberg Molecules. Physical Review Letters, 2019, 123, 073003.	7.8	33
24	The low-energy Goldstone mode in a trapped dipolar supersolid. Nature, 2019, 574, 386-389.	27.8	135
25	Fate of the Amplitude Mode in a Trapped Dipolar Supersolid. Physical Review Letters, 2019, 123, 193002.	7.8	40
26	Interplay between thermal Rydberg gases and plasmas. Physical Review A, 2019, 99, .	2.5	18
27	Transient Supersolid Properties in an Array of Dipolar Quantum Droplets. Physical Review X, 2019, 9, .	8.9	235
28	Dilute dipolar quantum droplets beyond the extended Gross-Pitaevskii equation. Physical Review Research, 2019, 1, .	3.6	81
29	Scissors Mode of Dipolar Quantum Droplets of Dysprosium Atoms. Physical Review Letters, 2018, 120, 160402.	7.8	69
30	Rydberg Molecules for Ion-Atom Scattering in the Ultracold Regime. Physical Review Letters, 2018, 120, 153401.	7.8	39
31	Quantum liquids get thin. Science, 2018, 359, 274-275.	12.6	16
32	Onset of a modulational instability in trapped dipolar Bose-Einstein condensates. Physical Review A, 2018, 97, .	2.5	38
33	Coupling Thermal Atomic Vapor to Slot Waveguides. Physical Review X, 2018, 8, .	8.9	32
34	Observation of Rydberg Blockade Induced by a Single Ion. Physical Review Letters, 2018, 121, 193401.	7.8	42
35	A room-temperature single-photon source based on strongly interacting Rydberg atoms. Science, 2018, 362, 446-449.	12.6	122
36	A fermionic impurity in a dipolar quantum droplet. Physica Scripta, 2018, 93, 104004.	2.5	19

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37	Proof of concept for an optogalvanic gas sensor for NO based on Rydberg excitations. Applied Physics Letters, 2018, 113, .	3.3	11
38	Anisotropic Superfluid Behavior of a Dipolar Bose-Einstein Condensate. Physical Review Letters, 2018, 121, 030401.	7.8	31
39	Ionic Impurity in a Bose-Einstein Condensate at Submicrokelvin Temperatures. Physical Review Letters, 2018, 120, 193401.	7.8	63
40	A transimpedance amplifier based on an LTPS process operated in alkali vapor for the measurement of an ionization current. , 2018, , .		1
41	Condensate losses and oscillations induced by Rydberg atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 055003.	1.5	1
42	Photoassociation of Trilobite Rydberg Molecules via Resonant Spin-Orbit Coupling. Physical Review Letters, 2017, 118, 223001.	7.8	29
43	Striped states in a many-body system of tilted dipoles. Physical Review A, 2017, 96, .	2.5	85
44	Coupling thermal atomic vapor to an integrated ring resonator. New Journal of Physics, 2016, 18, 103031.	2.9	29
45	Quantum technology: from research to application. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	42
46	Controlling Rydberg atom excitations in dense background gases. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 182001.	1.5	23
47	Ultracold Chemical Reactions of a Single Rydberg Atom in a Dense Gas. Physical Review X, 2016, 6, .	8.9	56
48	Observation of mixed singlet-triplet molecules. Physical Review A, 2016, 93, .	2.7	11
49	Rydberg polaritons in a thermal vapor. Physical Review A, 2016, 93, .	2.5	23
50	Probing an Electron Scattering Resonance using Rydberg Molecules within a Dense and Ultracold Gas. Physical Review Letters, 2016, 116, 053001.	7.8	57
51	Photoassociation of spin-polarized chromium. Physical Review A, 2016, 93, .	2.5	3
52	Observation of Quantum Droplets in a Strongly Dipolar Bose Gas. Physical Review Letters, 2016, 116, 215301.	7.8	466
53	Self-bound droplets of a dilute magnetic quantum liquid. Nature, 2016, 539, 259-262.	27.8	381
54	Liquid quantum droplets of ultracold magnetic atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 214004.	1.5	59

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55	Pulsed Rydberg four-wave mixing with motion-induced dephasing in a thermal vapor. Applied Physics B: Lasers and Optics, 2016, 122, 18.	2.2	2
56	Observing the Rosensweig instability of a quantum ferrofluid. Nature, 2016, 530, 194-197.	27.8	434
57	Signal revivals in pulsed Rydberg four-wave mixing in thermal ensembles. , 2016, , .		0
58	A Rydberg impurity in a dense background gas (Conference Presentation). , 2016, , .		0
59	Broad universal Feshbach resonances in the chaotic spectrum of dysprosium atoms. Physical Review A, 2015, 92, .	2.5	59
60	Hybridization of Rydberg Electron Orbitals by Molecule Formation. Physical Review Letters, 2015, 115, 023001.	7.8	23
61	Atomic vapor spectroscopy in integrated photonic structures. Applied Physics Letters, 2015, 107, .	3.3	48
62	Emergence of Chaotic Scattering in Ultracold Er and Dy. Physical Review X, 2015, 5, .	8.9	81
63	Imaging single Rydberg electrons in a Bose-Einstein condensate. New Journal of Physics, 2015, 17, 053046.	2.9	28
64	Strongly Correlated Growth of Rydberg Aggregates in a Vapor Cell. Physical Review Letters, 2015, 114, 203002.	7.8	120
65	High efficiency demagnetization cooling by suppression of light-assisted collisions. Optics Express, 2015, 23, 5596.	3.4	10
66	Quantum correlations and entanglement in far-from-equilibrium spin systems. Physical Review A, 2014, 90, .	2.5	77
67	Dipolar Gases - Experiment. Cold Atoms, 2014, , 311-325.	0.3	1
68	Rydberg dressing: understanding of collective many-body effects and implications for experiments. New Journal of Physics, 2014, 16, 063012.	2.9	116
69	Rydberg atoms in hollow-core photonic crystal fibres. Nature Communications, 2014, 5, 4132.	12.8	89
70	From molecular spectra to a density shift in dense Rydberg gases. Nature Communications, 2014, 5, 4546.	12.8	105
71	Narrow-line magneto-optical trap for dysprosium atoms. Optics Letters, 2014, 39, 3138.	3.3	36
72	Efficient demagnetization cooling of atoms and its limits. Physical Review A, 2014, 89, .	2.5	9

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73	Motion-induced signal revival in pulsed Rydberg four-wave mixing beyond the frozen-gas limit. <i>Physical Review A</i> , 2014, 90, .	2.5	14
74	Triple stack glass-to-glass anodic bonding for optogalvanic spectroscopy cells with electrical feedthroughs. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	24
75	Alignment of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle D \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -State Rydberg Molecules. <i>Physical Review Letters</i> , 2014, 112, 143008.	7.8	83
76	Publisher's Note: Ground state of a two-component dipolar Fermi gas in a harmonic potential [Phys. Rev. A88, 043604 (2013)]. <i>Physical Review A</i> , 2014, 89, .	2.5	0
77	Rydberg atoms in kagomÃ© photonic crystal fiber. , 2014, , .		0
78	Coupling a single electron to a Boseâ€“Einstein condensate. <i>Nature</i> , 2013, 502, 664-667.	27.8	124
79	High- and low-frequency phonon modes in dipolar quantum gases trapped in deep lattices. <i>Physical Review A</i> , 2013, 87, .	2.5	10
80	Correlations of a quasi-two-dimensional dipolar ultracold gas at finite temperatures. <i>Physical Review A</i> , 2013, 87, .	2.5	10
81	Sisyphus cooling in a continuously loaded trap. <i>New Journal of Physics</i> , 2013, 15, 093012.	2.9	7
82	Spectroscopy of a narrow-line optical pumping transition in atomic dysprosium. <i>Optics Letters</i> , 2013, 38, 637.	3.3	7
83	Ground state of a two-component dipolar Fermi gas in a harmonic potential. <i>Physical Review A</i> , 2013, 88, .	2.5	5
84	Room-temperature Rydberg single-photon source. <i>Physical Review A</i> , 2013, 87, .	2.5	40
85	Driving Dipolar Fermions into the Quantum Hall Regime by Spin-Flip Induced Insertion of Angular Momentum. <i>Physical Review Letters</i> , 2013, 110, 145303.	7.8	9
86	Electrical Readout for Coherent Phenomena Involving Rydberg Atoms in Thermal Vapor Cells. <i>Physical Review Letters</i> , 2013, 110, 123002.	7.8	38
87	Evidence for Strong van der Waals Type Rydberg-Rydberg Interaction in a Thermal Vapor. <i>Physical Review Letters</i> , 2013, 110, 123001.	7.8	62
88	Fabrication and characterization of an electrically contacted vapor cell. <i>Optics Letters</i> , 2012, 37, 2271.	3.3	21
89	Highly Resolved Measurements of Stark-Tuned FÃ¼rster Resonances between Rydberg Atoms. <i>Physical Review Letters</i> , 2012, 108, 113001.	7.8	62
90	Atomic Pair-State Interferometer: Controlling and Measuring an Interaction-Induced Phase Shift in Rydberg-Atom Pairs. <i>Physical Review X</i> , 2012, 2, .	8.9	24

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91	Deconfinement-induced collapse of a coherent array of dipolar Bose-Einstein condensates. <i>Physical Review A</i> , 2012, 86, .	2.5	11
92	Four-wave mixing involving Rydberg states in thermal vapor. <i>Physical Review A</i> , 2012, 85, .	2.5	51
93	Stable Periodic Density Waves in Dipolar Bose-Einstein Condensates Trapped in Optical Lattices. <i>Physical Review Letters</i> , 2012, 108, 140402.	7.8	29
94	Mean-field description of dipolar bosons in triple-well potentials. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 225302.	1.5	28
95	Microwave electrometry with Rydberg atoms in a vapour cell using bright atomic resonances. <i>Nature Physics</i> , 2012, 8, 819-824.	16.7	475
96	An experimental and theoretical guide to strongly interacting Rydberg gases. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 113001.	1.5	206
97	Artificial Atoms Can Do More Than Atoms: Deterministic Single Photon Subtraction from Arbitrary Light Fields. <i>Physical Review Letters</i> , 2011, 107, 093601.	7.8	114
98	Stability of a dipolar Bose-Einstein condensate in a one-dimensional lattice. <i>Physical Review A</i> , 2011, 84, .	2.5	73
99	GHz Rabi Flopping to Rydberg States in Hot Atomic Vapor Cells. <i>Physical Review Letters</i> , 2011, 107, 243001.	7.8	55
100	A Homonuclear Molecule with a Permanent Electric Dipole Moment. <i>Science</i> , 2011, 334, 1110-1114.	12.6	129
101	Continuous Loading of a Conservative Potential Trap from an Atomic Beam. <i>Physical Review Letters</i> , 2011, 106, 163002.	7.8	32
102	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.	1.5	46
103	Coherent excitation of Rydberg atoms in micrometre-sized atomic vapour cells. <i>Nature Photonics</i> , 2010, 4, 112-116.	31.4	157
104	Atom-molecule coherence for ultralong-range Rydberg dimers. <i>Nature Physics</i> , 2010, 6, 970-974.	16.7	46
105	Coherent Rydberg excitation in microscopic thermal vapor cells. , 2010, , .		0
106	Mesoscopic Ensembles of Polar Bosons in Triple-Well Potentials. <i>Physical Review Letters</i> , 2010, 104, 170404.	7.8	69
107	Rydberg Trimers and Excited Dimers Bound by Internal Quantum Reflection. <i>Physical Review Letters</i> , 2010, 105, 163201.	7.8	119
108	Focus on Atom Optics and its Applications. <i>New Journal of Physics</i> , 2010, 12, 065014.	2.9	14

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109	Fabrication method for microscopic vapor cells for alkali atoms. <i>Optics Letters</i> , 2010, 35, 1950.	3.3	47
110	Collective Many-Body Interaction in Rydberg Dressed Atoms. <i>Physical Review Letters</i> , 2010, 105, 160404.	7.8	153
111	Laser cooling of a magnetically guided ultracold atom beam. <i>New Journal of Physics</i> , 2010, 12, 065018.	2.9	9
112	Coherent control of long range Rydberg molecules. , 2010, , .		0
113	Universal scaling in a strongly interacting Rydberg gas. <i>Physical Review A</i> , 2009, 80, .	2.5	75
114	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.	1.5	12
115	Investigation of dephasing rates in an interacting Rydberg gas. <i>New Journal of Physics</i> , 2009, 11, 055014.	2.9	51
116	Coherent collapses of dipolar Bose-Einstein condensates for different trap geometries. <i>New Journal of Physics</i> , 2009, 11, 055032.	2.9	39
117	Moleküle aus Rydberg-Atomen. <i>Physik in Unserer Zeit</i> , 2009, 40, 173-174.	0.0	0
118	Observation of ultralong-range Rydberg molecules. <i>Nature</i> , 2009, 458, 1005-1008.	27.8	341
119	Plasmonic analogue of electromagnetically induced transparency at the Drude damping limit. <i>Nature Materials</i> , 2009, 8, 758-762.	27.5	1,651
120	Hot atoms rotate light rapidly. <i>Nature Photonics</i> , 2009, 3, 197-199.	31.4	14
121	The physics of dipolar bosonic quantum gases. <i>Reports on Progress in Physics</i> , 2009, 72, 126401.	20.1	1,201
122	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.	1.5	9
123	Plasmonic EIT at the Drude damping limit. , 2009, , .		2
124	Stabilization of a purely dipolar quantum gas against collapse. <i>Nature Physics</i> , 2008, 4, 218-222.	16.7	356
125	Quantum Critical Behavior in Strongly Interacting Rydberg Gases. <i>Physical Review Letters</i> , 2008, 101, 250601.	7.8	184
126	Dipolar interaction in ultra-cold atomic gases. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	29

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127	$\langle \text{Wave Collapse and Explosion of a Dipolar Bose-Einstein Condensate. Physical Review Letters, 2008, 101, 080401.} \rangle$	7.8	289
128	Echo Experiments in a Strongly Interacting Rydberg Gas. Physical Review Letters, 2008, 100, 013002.	7.8	76
129	Rydberg Excitation of Bose-Einstein Condensates. Physical Review Letters, 2008, 100, 033601.	7.8	120
130	Low retaining force optical viewport seal. Review of Scientific Instruments, 2007, 78, 046107.	1.3	4
131	Narrow bandwidth electromagnetically induced transparency in optically trapped atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 1907-1915.	1.5	7
132	Collisional properties of ultracold Chromium: Towards a purely dipolar quantum gas. , 2007, , .		0
133	Two-frequency acousto-optic modulator driver to improve the beam pointing stability during intensity ramps. Review of Scientific Instruments, 2007, 78, 043101.	1.3	9
134	Critical Temperature of Weakly Interacting Dipolar Condensates. Physical Review Letters, 2007, 98, 080407.	7.8	25
135	Collective oscillations of dipolar Bose-Einstein condensates and accurate comparison between contact and dipolar interactions. Physical Review A, 2007, 75, .	2.5	15
136	Spinor condensates with a laser-induced quadratic Zeeman effect. Physical Review A, 2007, 75, .	2.5	47
137	Ultracold chromium atoms: from Feshbach resonances to a dipolar Bose-Einstein condensate. Journal of Modern Optics, 2007, 54, 647-660.	1.3	9
138	Loading chromium atoms in a magnetic guide. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, F77-F84.	1.5	13
139	Evidence for Coherent Collective Rydberg Excitation in the Strong Blockade Regime. Physical Review Letters, 2007, 99, 163601.	7.8	299
140	Strong dipolar effects in a quantum ferrofluid. Nature, 2007, 448, 672-675.	27.8	431
141	Magnetostriction in a degenerate quantum gas. Journal of Magnetism and Magnetic Materials, 2007, 316, 429-432.	2.3	4
142	High resolution Rydberg spectroscopy of ultracold rubidium atoms. Fortschritte Der Physik, 2006, 54, 765-775.	4.4	16
143	Demagnetization cooling of a gas. Nature Physics, 2006, 2, 765-768.	16.7	65
144	Production of a chromium Bose-Einstein condensate. Applied Physics B: Lasers and Optics, 2006, 82, 211-216.	2.2	37

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145	Comparing Contact and Dipolar Interactions in a Bose-Einstein Condensate. Physical Review Letters, 2006, 97, 250402.	7.8	114
146	Trapping atoms on a transparent permanent-magnet atom chip. Physical Review A, 2006, 73, .	2.5	14
147	Expansion dynamics of a dipolar Bose-Einstein condensate. Physical Review A, 2006, 74, .	2.5	60
148	Spin-3 Chromium Bose-Einstein Condensates. Physical Review Letters, 2006, 96, 190404.	7.8	161
149	Depolarisation cooling of an atomic cloud. Europhysics Letters, 2005, 71, 918-924.	2.0	17
150	Atom nanolithography with multilayer light masks: Particle optics analysis. Physical Review A, 2005, 72, .	2.5	8
151	Bose-Einstein Condensation of Chromium. Physical Review Letters, 2005, 94, 160401.	7.8	993
152	Probing the light-induced dipole-dipole interaction in momentum space. Europhysics Letters, 2005, 71, 214-220.	2.0	15
153	Observation of Feshbach Resonances in an Ultracold Gas of Cr52. Physical Review Letters, 2005, 94, 183201.	7.8	141
154	Observation of Dipole-Dipole Interaction in a Degenerate Quantum Gas. Physical Review Letters, 2005, 95, 150406.	7.8	410
155	A two species trap for chromium and rubidium atoms. Journal of Modern Optics, 2004, 51, 1807-1816.	1.3	9
156	A lattice of magneto-optical and magnetic traps for cold atoms. European Physical Journal D, 2003, 22, 347-354.	1.3	35
157	Dipolar relaxation in an ultra-cold gas of magnetically trapped chromium atoms. Applied Physics B: Lasers and Optics, 2003, 77, 765-772.	2.2	78
158	One-, two- and three-dimensional nanostructures with atom lithography. Journal of Physics Condensed Matter, 2003, 15, R233-R255.	1.8	57
159	Integrated atom-optical circuit with continuous-wave operation. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 648.	2.1	19
160	Doppler cooling of an optically dense cloud of magnetically trapped atoms. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 960.	2.1	19
161	Ballistic expansion of a dipolar condensate. Journal of Optics B: Quantum and Semiclassical Optics, 2003, 5, S208-S211.	1.4	35
162	Detection of cold metastable atoms at a surface. Review of Scientific Instruments, 2003, 74, 2685-2689.	1.3	5

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163	Determination of the s-Wave Scattering Length of Chromium. Physical Review Letters, 2003, 91, 193201.	7.8	39
164	Observing and tuning the dipolar interaction in a Bose-Einstein condensate. , 2003, , .		0
165	Continuous loading of cold atoms into a Ioffe-Pritchard magnetic trap. Journal of Optics B: Quantum and Semiclassical Optics, 2003, 5, S170-S177.	1.4	23
166	Intense source of cold Rb atoms from a pure two-dimensional magneto-optical trap. Physical Review A, 2002, 66, .	2.5	78
167	Tuning the Dipolar Interaction in Quantum Gases. Physical Review Letters, 2002, 89, 130401.	7.8	296
168	ATOM OPTICS: Continuous Progress on Atom Lasers. Science, 2002, 296, 2155-2156.	12.6	3
169	Revolutions and Oscillations of the Momentum of Light in a Planar Multimode Waveguide. Physical Review Letters, 2001, 87, 123901.	7.8	11
170	Continuous loading of a magnetic trap. Physical Review A, 2001, 64, .	2.5	60
171	Continuous optical loading of a Bose-Einstein condensate. Physical Review A, 2001, 63, .	2.5	19
172	Structured doping with light forces. Applied Physics Letters, 2001, 78, 1781-1783.	3.3	25
173	Quantenoptik: Ein Verstärker für Materiewellen und Lichtwellen: Ein beleuchtetes Bose-Einstein-Kondensat vermag Lichtpulse abzubremsen sowie Licht- und Materiewellen zu verstärken. Physik Journal, 2001, 57, 55-59.	0.1	0
174	Writing a superlattice with light forces. Applied Physics B: Lasers and Optics, 2000, 70, 671-674.	2.2	20
175	Bose-Einstein condensation with magnetic dipole-dipole forces. Physical Review A, 2000, 61, .	2.5	294
176	Amplification of Light and Atoms in a Bose-Einstein Condensate. Physical Review Letters, 2000, 85, 4225-4228.	7.8	133
177	A magneto-optical trap for chromium with population repumping via intercombination lines. Europhysics Letters, 1999, 45, 156-161.	2.0	37
178	Ultrakalte Atome an Oberflächen: Dicht über einer Oberfläche lassen sich Atome als zweidimensionales Gas speichern. Physik Journal, 1999, 55, 39-42.	0.1	1
179	Sub-100 nm structures by neutral atom lithography. Microelectronic Engineering, 1999, 46, 105-108.	2.4	17
180	Phase-coherent amplification of atomic matter waves. Nature, 1999, 402, 641-644.	27.8	185

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181	A matter-wave interferometer based on the dc-Stark effect. Applied Physics B: Lasers and Optics, 1999, 69, 269-275.	2.2	3
182	Raman cooling of spin-polarized cesium atoms in a crossed dipole trap. Europhysics Letters, 1999, 46, 141-147.	2.0	17
183	Polarization gradient light masks in atom lithography. Europhysics Letters, 1999, 46, 148-153.	2.0	23
184	Nano-lithography with atoms. Surface Science, 1999, 433-435, 40-47.	1.9	23
185	Atomic lithography. Microelectronic Engineering, 1998, 41-42, 587-590.	2.4	8
186	Quasi-2D Gas of Laser Cooled Atoms in a Planar Matter Waveguide. Physical Review Letters, 1998, 81, 5298-5301.	7.8	86
187	Charged Wire Interferometer for Atoms. Physical Review Letters, 1998, 81, 5792-5795.	7.8	25
188	Shadows and Mirrors: Reconstructing Quantum States of Atom Motion. Physics Today, 1998, 51, 22-28.	0.3	72
189	Nanolithography with neutral chromium and helium atoms. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1997, 15, 2905.	1.6	23
190	Atoms in the Lowest Motional Band of a Three-Dimensional Optical Lattice. Physical Review Letters, 1997, 78, 1038-1041.	7.8	56
191	Observation of correlated atom-photon pairs on the single-particle level. Physical Review A, 1997, 55, R2539-R2542.	2.5	26
192	<title>Nanometer-scale lithography with chromium and helium atoms</title>. , 1997, 2995, 80.		2
193	Lithography using nano-lens arrays made of light. Journal of Modern Optics, 1997, 44, 1883-1898.	1.3	15
194	Atomlithographie. Physik Journal, 1997, 53, 523-528.	0.1	2
195	Partial reconstruction of the motional Wigner function of an ensemble of helium atoms. Journal of Modern Optics, 1997, 44, 2551-2564.	1.3	17
196	High-order Talbot fringes for atomic matter waves. Optics Letters, 1997, 22, 1430.	3.3	84
197	Measurement of the Wigner function of an ensemble of helium atoms. Nature, 1997, 386, 150-153.	27.8	232
198	Hexagonal nanostructures generated by light masks for neutral atoms. Applied Physics B: Lasers and Optics, 1997, 65, 755-759.	2.2	91

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199	Nanometerscale lithography with chromium atoms using light forces. Microelectronic Engineering, 1997, 35, 285-288.	2.4	49
200	Writing nanostructures with a metastable helium beam. Microelectronic Engineering, 1997, 35, 427-430.	2.4	4
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