Rudolf Grimm

List of Publications by Year
in descending order

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176 papers	19,820 citations	16451 64 h-index	10158 140 g-index
177 all docs	177 docs citations	177 times ranked	6058 citing authors

#	Article	IF	Citations
1	Feshbach resonances in ultracold gases. Reviews of Modern Physics, 2010, 82, 1225-1286.	45.6	2,905
2	Optical Dipole Traps for Neutral Atoms. Advances in Atomic, Molecular and Optical Physics, 2000, , 95-170.	2.3	1,042
3	Bose-Einstein Condensation of Molecules. Science, 2003, 302, 2101-2103.	12.6	989
4	Evidence for Efimov quantum states in an ultracold gas of caesium atoms. Nature, 2006, 440, 315-318.	27.8	892
5	Observation of the Pairing Gap in a Strongly Interacting Fermi Gas. Science, 2004, 305, 1128-1130.	12.6	708
6	Bose-Einstein Condensation of Erbium. Physical Review Letters, 2012, 108, 210401.	7.8	660
7	Crossover from a Molecular Bose-Einstein Condensate to a Degenerate Fermi Gas. Physical Review Letters, 2004, 92, 120401.	7.8	593
8	Collective Excitations of a Degenerate Gas at the BEC-BCS Crossover. Physical Review Letters, 2004, 92, 203201.	7.8	507
9	Repulsively bound atom pairs in an optical lattice. Nature, 2006, 441, 853-856.	27.8	491
10	Tuning the Scattering Length with an Optically Induced Feshbach Resonance. Physical Review Letters, 2004, 93, 123001.	7.8	471
11	Ultracold Dense Samples of Dipolar RbCs Molecules in the Rovibrational and Hyperfine Ground State. Physical Review Letters, 2014, 113, 205301.	7.8	419
12	Bose-Einstein Condensation of Cesium. Science, 2003, 299, 232-235.	12.6	397
13	Metastability and coherence of repulsive polarons in a strongly interacting Fermi mixture. Nature, 2012, 485, 615-618.	27.8	372
14	Preparation of a Pure Molecular Quantum Gas. Science, 2003, 301, 1510-1513.	12.6	356
15	Ultracold Triplet Molecules in the Rovibrational Ground State. Physical Review Letters, 2008, 101, 133005.	7.8	333
16	Pure Gas of Optically Trapped Molecules Created from Fermionic Atoms. Physical Review Letters, 2003, 91, 240402.	7.8	268
17	Exploring an Ultracold Fermi-Fermi Mixture: Interspecies Feshbach Resonances and Scattering Properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>Li</mml:mi><mml:mprescripts /><mml:none /><mml:mn>6</mml:mn></mml:mmultiscripts></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">K</mml:mi><mml:mprescripts /><mml:none /><mml:mn>40</mml:mn></mml:mmultiscripts></mml:math>	7.8	263
18	Ultrafast many-body interferometry of impurities coupled to a Fermi sea. Science, 2016, 354, 96-99.	12.6	252

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19	Precise Determination ofLi6Cold Collision Parameters by Radio-Frequency Spectroscopy on Weakly Bound Molecules. Physical Review Letters, 2005, 94, 103201.	7.8	234
20	Observation of an Efimov-like trimer resonance in ultracold atomâ€“dimer scattering. Nature Physics, 2009, 5, 227-230.	16.7	213
21	Three-Body Recombination at Large Scattering Lengths in an Ultracold Atomic Gas. Physical Review Letters, 2003, 91, 123201.	7.8	197
22	Precision Measurements of Collective Oscillations in the BEC-BCS Crossover. Physical Review Letters, 2007, 98, 040401.	7.8	197
23	Surface Trap for Cs atoms based on Evanescent-Wave Cooling. Physical Review Letters, 1997, 79, 2225-2228.	7.8	184
24	Evidence for Universal Four-Body States Tied to an Efimov Trimer. Physical Review Letters, 2009, 102, 140401.	7.8	182
25	Universality of the Three-Body Parameter for Efimov States in Ultracold Cesium. Physical Review Letters, 2011, 107, 120401.	7.8	180
26	Bose-Einstein Condensation of Strontium. Physical Review Letters, 2009, 103, 200401.	7.8	177
27	Reaching Fermi Degeneracy via Universal Dipolar Scattering. Physical Review Letters, 2014, 112, 010404.	7.8	167
28	Two-Dimensional Bose-Einstein Condensate in an Optical Surface Trap. Physical Review Letters, 2004, 92, 173003.	7.8	158
29	Atom-Molecule Dark States in a Bose-Einstein Condensate. Physical Review Letters, 2005, 95, 063202.	7.8	156
30	Coherent Optical Transfer of Feshbach Molecules to a Lower Vibrational State. Physical Review Letters, 2007, 98, 043201.	7.8	154
31	Second sound and the superfluid fraction in a Fermi gas with resonant interactions. Nature, 2013, 498, 78-81.	27.8	154
32	Generation of a hollow laser beam for atom trapping using an axicon. Optics Communications, 1998, 147, 67-70.	2.1	143
33	Long-Lived Feshbach Molecules in a Three-Dimensional Optical Lattice. Physical Review Letters, 2006, 96, 050402.	7.8	140
34	Observation of Feshbach-Like Resonances in Collisions between Ultracold Molecules. Physical Review Letters, 2005, 94, 123201.	7.8	139
35	Towards the production of ultracold ground-state RbCs molecules: Feshbach resonances, weakly bound states, and the coupled-channel model. Physical Review A, 2012, 85, .	2.5	131
36	Sympathetic Cooling with Two Atomic Species in an Optical Trap. Physical Review Letters, 2002, 88, 253001.	7.8	121

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37	Observation of the Second Triatomic Resonance in Efimovâ€™s Scenario. Physical Review Letters, 2014, 112, 190401.	7.8	120
38	Forty years of Efimov physics: How a bizarre prediction turned into a hot topic. Physics Magazine, 0, 3, .	0.1	118
39	Efimov Resonances in Ultracold Quantum Gases. Few-Body Systems, 2011, 51, 113-133.	1.5	118
40	Quantum degenerate mixtures of strontium and rubidium atoms. Physical Review A, 2013, 88, .	2.5	109
41	Simple scheme for tunable frequency offset locking of two lasers. Review of Scientific Instruments, 1999, 70, 242-243.	1.3	108
42	Hyperfine, rotational, and vibrational structure of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mi>a</mml:mi><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msup><mml of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Rb</mml:mi><mml:mpre. Physical Review A, 2010, 82, .	2.5	106
43	Laser Cooling to Quantum Degeneracy. Physical Review Letters, 2013, 110, 263003.	7.8	106
44	Gravitational laser trap for atoms with evanescent-wave cooling. Optics Communications, 1995, 119, 652-662.	2.1	103
45	Observation of interspecies Feshbach resonances in an ultracold Rb-Cs mixture. Physical Review A, 2009, 79, .	2.5	101
46	Creation of Ultracold<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>Molecules in the Electronic Ground State. Physical Review Letters, 2012, 109, 115302.	7.8	101
47	Short-Distance Atomic Beam Deceleration with a Stimulated Light Force. Physical Review Letters, 1997, 78, 1420-1423.	7.8	96
48	Production of a dual-species Bose-Einstein condensate of Rb and Cs atoms. European Physical Journal D, 2011, 65, 3-9.	1.3	96
49	Double-degenerate Bose-Fermi mixture of strontium. Physical Review A, 2010, 82, .	2.5	94
50	Decoherence of Impurities in a Fermi Sea of Ultracold Atoms. Physical Review Letters, 2015, 115, 135302.	7.8	93
51	Feshbach resonances, weakly bound molecular states, and coupled-channel potentials for cesium at high magnetic fields. Physical Review A, 2013, 87, .	2.5	88
52	Inducing an optical Feshbach resonance via stimulated Raman coupling. Physical Review A, 2005, 71, .	2.5	85
53	Collisional Stability of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="bold">K</mml:mi><mml:mprescripts /><mml:none /><mml:mn>40</mml:mn></mml:mmultiscripts></mml:math>Immersed in a Strongly Interacting Fermi Gas of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>Li</mml:mi><mml:mprescripts /><mml:none /><mml:mn>6</mml:mn></mml:mmultiscripts></mml:math>. Physical Review Letters, 2009, 103, 223203.	7.8	84
54	Observation of a strong rectified dipole force in a bichromatic standing light wave. Physical Review Letters, 1990, 65, 1415-1418.	7.8	81

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55	Determination of atomic scattering lengths from measurements of molecular binding energies near Feshbach resonances. Physical Review A, 2009, 79, .	2.5	81
56	Production of quantum-degenerate strontium gases. Physical Review A, 2013, 87, .	2.5	78
57	Magnetically Controlled Exchange Process in an Ultracold Atom-Dimer Mixture. Physical Review Letters, 2010, 104, 053201.	7.8	77
58	Narrow-line magneto-optical trap for erbium. Physical Review A, 2012, 85, .	2.5	77
59	Ultracold Dipolar Molecules Composed of Strongly Magnetic Atoms. Physical Review Letters, 2015, 115, 203201.	7.8	76
60	Mixture of ultracold lithium and cesium atoms in an optical dipole trap. Applied Physics B: Lasers and Optics, 2001, 73, 791-799.	2.2	75
61	Collective oscillations of a Fermi gas in the unitarity limit: Temperature effects and the role of pair correlations. Physical Review A, 2008, 78, .	2.5	74
62	Optimized production of a cesium Boseâ€“Einstein condensate. Applied Physics B: Lasers and Optics, 2004, 79, 1013-1019.	2.2	71
63	Hydrodynamic Expansion of a Strongly Interacting Fermi-Fermi Mixture. Physical Review Letters, 2011, 106, 115304.	7.8	69
64	Molecular spectroscopy for ground-state transfer of ultracold RbCs molecules. Physical Chemistry Chemical Physics, 2011, 13, 18926.	2.8	68
65	Spectroscopy of ultracold trapped cesium Feshbach molecules. Physical Review A, 2007, 76, .	2.5	67
66	Electron cooling and recombination experiments with an adiabatically expanded electron beam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 369, 11-22.	1.6	64
67	â€œStÃ¼ckelberg Interferometryâ€•with Ultracold Molecules. Physical Review Letters, 2007, 99, 113201.	7.8	64
68	Finite-Temperature Collective Dynamics of a Fermi Gas in the BEC-BCS Crossover. Physical Review Letters, 2007, 99, 150403.	7.8	63
69	Magnetic Field Control of Elastic Scattering in a Cold Gas of Fermionic Lithium Atoms. Physical Review Letters, 2002, 89, 273202.	7.8	61
70	Detection and manipulation of nuclear spin states in fermionic strontium. Physical Review A, 2011, 84, .	2.5	60
71	Quantum Engineering of a Low-Entropy Gas of Heteronuclear Bosonic Molecules in an Optical Lattice. Physical Review Letters, 2017, 118, 073201.	7.8	59
72	Coherent beam splitter for atoms based on a bichromatic standing light wave. Optics Letters, 1994, 19, 658.	3.3	52

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73	Cruising through molecular bound-state manifolds with radiofrequency. Nature Physics, 2008, 4, 223-226.	16.7	52
74	Observation of a Strong Atom-Dimer Attraction in a Mass-Imbalanced Fermi-Fermi Mixture. Physical Review Letters, 2014, 112, 075302.	7.8	52
75	Collisions between Tunable Halo Dimers: Exploring an Elementary Four-Body Process with Identical Bosons. Physical Review Letters, 2008, 101, 023201.	7.8	51
76	Production of a degenerate Fermi-Fermi mixture of dysprosium and potassium atoms. Physical Review A, 2018, 98, .	2.5	51
77	Probing the Interface of a Phase-Separated State in a Repulsive Bose-Fermi Mixture. Physical Review Letters, 2018, 120, 243403.	7.8	51
78	All-optical production of a degenerate mixture of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Li</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>6</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">K</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>40</mml:m	2.5	50
79	Collective Modes in a Unitary Fermi Gas across the Superfluid Phase Transition. Physical Review Letters, 2013, 110, 055303.	7.8	50
80	Evanescent-Wave Trapping and Evaporative Cooling of an Atomic Gas at the Crossover to Two Dimensions. Physical Review Letters, 2003, 90, 173001.	7.8	49
81	Crystalline Ion Beams. Annual Review of Nuclear and Particle Science, 1995, 45, 391-428.	10.2	48
82	Transverse Laser Cooling of a Fast Stored Ion Beam through Dispersive Coupling. Physical Review Letters, 1998, 81, 2052-2055.	7.8	48
83	Dynamics of a strongly interacting Fermi gas: The radial quadrupole mode. Physical Review A, 2007, 76, .	2.5	47
84	Efficient, Indirect Transverse Laser Cooling of a Fast Stored Ion Beam. Physical Review Letters, 1996, 77, 623-626.	7.8	46
85	Efficient creation of molecules from a cesium Bose-Einstein condensate. Europhysics Letters, 2005, 69, 706-712.	2.0	45
86	The effect of resonant light pressure in saturation spectroscopy. Applied Physics B, Photophysics and Laser Chemistry, 1989, 49, 179-189.	1.5	43
87	Magneto-optic trapping of lithium using semiconductor lasers. Optics Communications, 1998, 158, 263-272.	2.1	43
88	Laser cooling of stored high-velocity ions by means of the spontaneous force. Physical Review A, 1993, 48, 2127-2144.	2.5	42
89	Feshbach resonances in the 6Li-40K Fermi-Fermi mixture: elastic versus inelastic interactions. European Physical Journal D, 2011, 65, 55-65.	1.3	42
90	Resonator-enhanced optical dipole trap for fermionic lithium atoms. Optics Letters, 2001, 26, 1837.	3.3	41

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91	Cold inelastic collisions between lithium and cesium in a two-species magneto-optical trap. European Physical Journal D, 1999, 7, 331.	1.3	40
92	Bose-Einstein condensation of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Sr</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>86</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>. Physical Review A, 2010, 82, .	2.5	40
93	Resonant five-body recombination in an ultracold gas of bosonic atoms. New Journal of Physics, 2013, 15, 043040.	2.9	35
94	Thermal equilibrium and efficient evaporation of an ultracold atom-molecule mixture. Physical Review A, 2004, 69, .	2.5	32
95	Superfluid quenching of the moment of inertia in a strongly interacting Fermi gas. New Journal of Physics, 2011, 13, 035003.	2.9	30
96	Resonant atom-dimer collisions in cesium: Testing universality at positive scattering lengths. Physical Review A, 2014, 90, .	2.5	30
97	Anisotropic Relaxation Dynamics in a Dipolar Fermi Gas Driven Out of Equilibrium. Physical Review Letters, 2014, 113, 263201.	7.8	29
98	Accurate Determination of the Dynamical Polarizability of Dysprosium. Physical Review Letters, 2018, 120, 223001.	7.8	29
99	Observation of interference between two molecular Boseâ€“Einstein condensates. New Journal of Physics, 2011, 13, 065027.	2.9	27
100	Resonantly interacting Fermi-Fermi Mixture of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Dy</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>161</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mm	7.8	27
101	Gravito-optical atom trap based on a conical hollow beam. Europhysics Letters, 1998, 43, 510-515.	2.0	26
102	Optical and evaporative cooling of caesium atoms in the gravito-optical surface trap. Journal of Modern Optics, 2000, 47, 2755-2767.	1.3	26
103	â€œWhite-lightâ€•Laser Cooling of a Fast Stored Ion Beam. Physical Review Letters, 1998, 80, 2129-2132.	7.8	25
104	Very long storage times and evaporative cooling of cesium atoms in a quasielectrostatic dipole trap. Physical Review A, 2000, 62, .	2.5	25
105	Thermometry of a deeply degenerate Fermi gas with a Bose-Einstein condensate. Physical Review A, 2017, 95, .	2.5	25
106	Stability and breakdown of Fermi polarons in a strongly interacting Fermi-Bose mixture. Physical Review A, 2021, 103, .	2.5	25
107	Dipole force rectification in a monochromatic laser field. Optics Communications, 1991, 84, 18-22.	2.1	23
108	Cold-atom gas at very high densities in an optical surface microtrap. Physical Review A, 2002, 66, .	2.5	23

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109	Three-body parameter for Efimov states in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Li</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>6</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>. Physical Review A, 2014, 90, .	2.5	23
110	Metastable Feshbach Molecules in High Rotational States. Physical Review Letters, 2008, 100, 083002.	7.8	22
111	Light-pressure-induced line-shape asymmetry of the saturation dip in an atomic gas. Physical Review Letters, 1989, 63, 232-235.	7.8	20
112	Optically induced spin precession and echo in an atomic beam. Physical Review A, 1998, 58, 3993-3998.	2.5	19
113	Breathing mode of a Bose-Einstein condensate repulsively interacting with a fermionic reservoir. Physical Review A, 2019, 99, .	2.5	19
114	Pairing-gap, pseudogap, and no-gap phases in the radio-frequency spectra of a trapped unitary<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Li</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>6</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>gas. Physical Review A, 2011, 84, .	2.5	18
115	A quantum revolution. Nature, 2005, 435, 1035-1036.	27.8	17
116	Rectification of the gradient force acting on a three-level atom in a bichromatic standing light wave. Journal of Physics B: Atomic, Molecular and Optical Physics, 1991, 24, 3733-3740.	1.5	16
117	Transverse laser cooling of a radio-frequency bunched ion beam in the storage ring TSR. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 383, 634-636.	1.6	16
118	Optical traps for quantum gases. Applied Physics B: Lasers and Optics, 1998, 67, 709-718.	2.2	15
119	Higher-nodal collective modes in a resonantly interacting Fermi gas. Physical Review A, 2013, 87, .	2.5	15
120	Finite-temperature effects on a triatomic Efimov resonance in ultracold cesium. Physical Review A, 2015, 91, .	2.5	15
121	Lifetime of Feshbach dimers in a Fermi-Fermi mixture of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mtext>Li</mml:mtext><mml:mprescripts /><mml:none /><mml:mn>6</mml:mn></mml:mmultiscripts></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mtext>K</mml:mtext><mml:mprescripts /><mml:none /><mml:mn>40</mml:mn></mml:mmultiscripts></mml:math>. Physical Review A, 2016, 94, .	2.5	15
122	Non-magnetic atom trap based on a 3D bichromatic optical superlattice. Optics Communications, 1997, 137, 406-412.	2.1	14
123	Anomalous behaviour of laser cooled fast ion beams. , 2000, 127, 223-235.		14
124	Laser cooling of fast stored ions in barrier buckets. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 441, 209-218.	1.6	13
125	Observation of Light-Pressure-Induced Dispersion in Yb Vapor. Physical Review Letters, 1988, 61, 2308-2311.	7.8	12
126	Observation of the Magneto-Optical Radiation Force by Laser Spectroscopy. Europhysics Letters, 1992, 20, 101-106.	2.0	12

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127	Rapid adiabatic passage in laser cooling of fast stored ion beams. Physical Review A, 1998, 58, 2242-2251.	2.5	12
128	Beyond-mean-field description of a trapped unitary Fermi gas with mass and population imbalance. Physical Review A, 2021, 103, .	2.5	12
129	Rectified dipole force in a bichromatic standing light wave. Optics Communications, 1993, 102, 155-165.	2.1	11
130	White-light laser cooling of ions in a storage ring. Hyperfine Interactions, 1996, 99, 259-265.	0.5	11
131	Collisions of ultracold trapped cesium Feshbach molecules. Laser Physics, 2010, 20, 23-31.	1.2	11
132	Raman heterodyne Ramsey spectroscopy in a Samarium atomic beam. Applied Physics B, Photophysics and Laser Chemistry, 1988, 45, 77-82.	1.5	10
133	Light-pressure-induced nonlinear dispersion in a Doppler-broadened medium: theory and experimental proposal. Journal of the Optical Society of America B: Optical Physics, 1988, 5, 1655.	2.1	10
134	Manipulation of spin-polarized atoms in an optical dipole-force trap. Europhysics Letters, 1998, 44, 700-706.	2.0	8
135	Light-pressure-induced nonlinear dispersion of a laser field interacting with an atomic gas. Physical Review A, 1990, 42, 2890-2905.	2.5	7
136	A strong magneto-optical force exerted on neutral atoms. Journal De Physique II, 1992, 2, 593-599.	0.9	7
137	Stimulated magneto-optical force in the dressed-atom picture. Physical Review A, 1994, 50, 2517-2527.	2.5	6
138	Experimental Evidence for Efimov Quantum States. AIP Conference Proceedings, 2006, , .	0.4	6
139	Dark state experiments with ultracold, deeply-bound triplet molecules. Faraday Discussions, 2009, 142, 271.	3.2	6
140	Sub-Doppler manifestation of the magneto-optical radiation force. Optics Communications, 1993, 98, 54-60.	2.1	5
141	Laser-trapped atoms as a precision target for the storage ring TSR. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 441, 81-86.	1.6	5
142	Lifetime of angular momentum in a rotating strongly interacting Fermi gas. Physical Review A, 2009, 79, .	2.5	5
143	Observation of an Efimov resonance in an ultracold mixture of atoms and weakly bound dimers. Journal of Physics: Conference Series, 2009, 194, 012064.	0.4	4
144	Efimov States in an Ultracold Gas: How it Happened in the Laboratory. Few-Body Systems, 2019, 60, 1.	1.5	4

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145	Observation of a Strong Rectified Dipole Force in a Bichromatic Standing Light Wave. Physical Review Letters, 1990, 65, 3210-3210.	7.8	3
146	Behaviour of the friction force in a bichromatic standing light wave. Journal of Physics B: Atomic, Molecular and Optical Physics, 1991, 24, L539-L543.	1.5	3
147	Laser-cooled and trapped atoms as a precision target for heavy ion beams. Hyperfine Interactions, 1996, 99, 127-133.	0.5	3
148	New method to measure the friction force of electron coolers in heavy-ion storage rings. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 498, 16-21.	1.6	3
149	Measurement of the dynamic polarizability of Dy atoms near the 626-nm intercombination line. Physical Review A, 2021, 104, .	2.5	3
150	Preparation of relativistic 7Li+ ion beams for precision experiments at storage rings. , 1997, 108, 241-250.		2
151	Atomâ€•und MolekÃ¼lphysik: Optische Dipolfallen: Experimente mit ultrakalten Atomen und anderen kleinen Teilchen im LichtkÃfig. Physik Journal, 1999, 55, 41-47.	0.1	2
152	Topical issue on cold quantum matter. European Physical Journal D, 2011, 65, 1-2.	1.3	2
153	Laser spectroscopy with a cooler ring at the esr (GSI) and the TSR (MPI Heidelberg). Hyperfine Interactions, 1992, 74, 277-285.	0.5	1
154	Ion beam preparation of 7Li+ for precision experiments at heavy ion storage rings. Nuclear Physics A, 1997, 626, 499-509.	1.5	1
155	Evaporative cooling of cesium atoms in the gravito-optical surface trap. Comptes Rendus Physique, 2001, 2, 625-631.	0.1	1
156	Repulsively Bound Atom Pairs: Overview, Simulations and Links. AIP Conference Proceedings, 2006, , .	0.4	1
157	Raman heterodyne ramsey spectroscopy in local space and velocity space. , 1987, , 249-263.		1
158	EXPERIMENTS WITH A BOSE-EINSTEIN CONDENSATE OF CESIUM ATOMS. , 2004, , .		1
159	Die magnetooptische Lichtkraft. Physik Journal, 1993, 49, 888-889.	0.1	0
160	<title>Cooling atoms in dark gravitational laser traps</title>. , 1996, , .		0
161	LaserkÃ¼hlung von Ionenstrahlen in allen Raumrichtungen. Physik Journal, 1997, 53, 135-136.	0.1	0
162	Test of special relativity in a heavy ion storage ring. , 1997, , 131-139.		0

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163	Bunched laser cooling of a stored weak 7Li+ ion beam in a pure triplet state. , 1998, 115, 53-56.		0
164	First demonstration of â€œwhite-lightâ€•laser cooling of a stored ion beam. , 1998, 115, 47-52.		0
165	Evaporative cooling in optical dipole traps. , 0, , .		0
166	Kristalliner Ionenstrahl im Miniâ€Speicherring. Physik Journal, 2001, 57, 16-17.	0.1	0
167	Laser-Cooled Ions and Atoms in a Storage Ring. Hyperfine Interactions, 2003, 146/147, 189-195.	0.5	0
168	Two-Dimensional Gas of Cesium Atoms Confined by Evanescent Waves. , 2005, , 261-269.		0
169	Molecular BEC and the crossover to a fermionic superfluid. , 0, , .		0
170	New developments in strongly interacting fermi gases. , 2007, , .		0
171	All-optical production of a doubly degenerate Fermi-Fermi mixture. , 2009, , .		0
172	Laser-Cooled Ions and Atoms in a Storage Ring. , 2003, , 189-195.		0
173	Crossover to 2D in a double-evanescent wave trap. European Physical Journal Special Topics, 2004, 116, 241-245.	0.2	0
174	Ultracold Feshbach Molecules. , 2009, , .		0
175	Observation of Light-Pressure-Induced Line-Shape Asymmetries of Saturated Absorption and Dispersion Resonances. , 1989, , 40-43.		0
176	Measurement of the Effect of Resonant Light Pressure on the Dispersion Curve of a Gas of Two-Level Atoms. , 1990, , 447-451.		0