

Jörg Schmiedmayer

List of Publications by Year in descending order

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288
papers

18,455
citations

10956

71
h-index

13727

129
g-index

296
all docs

296
docs citations

296
times ranked

8466
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms for the emergence of Gaussian correlations. SciPost Physics, 2022, 12, .	1.5	3
2	Nonlinear quantum gates for a Bose-Einstein condensate. Physical Review Research, 2022, 4, .	1.3	5
3	Diffraction of strongly interacting molecular Bose-Einstein condensate from standing wave light pulses. SciPost Physics, 2022, 12, .	1.5	1
4	Decay and recurrence of non-Gaussian correlations in a quantum many-body system. Nature Physics, 2021, 17, 559-563.	6.5	26
5	Two-Particle Interference with Double Twin-Atom Beams. Physical Review Letters, 2021, 126, 083603.	2.9	21
6	Extension of the Generalized Hydrodynamics to the Dimensional Crossover Regime. Physical Review Letters, 2021, 126, 090602.	2.9	40
7	Josephson oscillations in split one-dimensional Bose gases. SciPost Physics, 2021, 10, .	1.5	15
8	Relaxation in an extended bosonic Josephson junction. Physical Review Research, 2021, 3, .	1.3	12
9	Quantum Field Thermal Machines. PRX Quantum, 2021, 2, .	3.5	29
10	Thermometry of one-dimensional Bose gases with neural networks. Physical Review A, 2021, 104, .	1.0	4
11	Unruh and analogue Unruh temperatures for circular motion in $3+1$ dimensions. Physical Review D, 2020, 102, .	1.6	20
12	Ergodic-Localized Junctions in a Periodically Driven Spin Chain. Physical Review Letters, 2020, 125, 170503.	2.9	18
13	Detecting One-Dimensional Dipolar Bosonic Crystal Orders via Full Distribution Functions. Physical Review Letters, 2020, 125, 093602.	2.9	10
14	Interferometric Unruh Detectors for Bose-Einstein Condensates. Physical Review Letters, 2020, 125, 213603.	2.9	37
15	Simulating a quantum commensurate-incommensurate phase transition using two Raman-coupled one-dimensional condensates. Physical Review B, 2020, 101, .	1.1	6
16	Quantum read-out for cold atomic quantum simulators. Communications Physics, 2020, 3, .	2.0	11
17	Scalable spin-photon entanglement by time-to-polarization conversion. Npj Quantum Information, 2020, 6, .	2.8	23
18	Extracting the Field Theory Description of a Quantum Many-Body System from Experimental Data. Physical Review X, 2020, 10, .	2.8	34

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19	Introducing iFluid: a numerical framework for solving hydrodynamical equations in integrable models. SciPost Physics, 2020, 8, .	1.5	28
20	Relaxation of bosons in one dimension and the onset of dimensional crossover. SciPost Physics, 2020, 9, .	1.5	19
21	Euler-scale dynamical correlations in integrable systems with fluid motion. SciPost Physics Core, 2020, 3, .	0.9	20
22	From the moving piston to the dynamical Casimir effect: Explorations with shaken condensates. Physical Review A, 2019, 99, .	1.0	12
23	Observation of atom-number fluctuations in optical lattices via quantum collapse and revival dynamics. Physical Review A, 2019, 99, .	1.0	6
24	Designing arbitrary one-dimensional potentials on an atom chip. Optics Express, 2019, 27, 33474.	1.7	43
25	Recurrences in an isolated quantum many-body system. Science, 2018, 360, 307-310.	6.0	76
26	Thermalization dynamics of two correlated bosonic quantum wires after a split. Physical Review A, 2018, 97, .	1.0	7
27	Solid-state electron spin lifetime limited by phononic vacuum modes. Nature Materials, 2018, 17, 313-317.	13.3	53
28	Relaxation to a Phase-Locked Equilibrium State in a One-Dimensional Bosonic Josephson Junction. Physical Review Letters, 2018, 120, 173601.	2.9	68
29	Shortcut loading a Bose-Einstein condensate into an optical lattice. New Journal of Physics, 2018, 20, 055005.	1.2	34
30	Double light-cone dynamics establish thermal states in integrable 1D Bose gases. New Journal of Physics, 2018, 20, 023034.	1.2	14
31	Universal dynamics in an isolated one-dimensional Bose gas far from equilibrium. Nature, 2018, 563, 225-229.	13.7	149
32	Analytical pendulum model for a bosonic Josephson junction. Physical Review A, 2018, 98, .	1.0	20
33	<i>Ab initio</i> calculation of the spin lattice relaxation time T_1 for nitrogen-vacancy centers in diamond. Physical Review B, 2018, 98, .		
34	Uncover Topology by Quantum Quench Dynamics. Physical Review Letters, 2018, 121, 250403.	2.9	114
35	Relaxation, chaos, and thermalization in a three-mode model of a Bose-Einstein condensate. New Journal of Physics, 2018, 20, 113039.	1.2	22
36	Characterizing twin-particle entanglement in double-well potentials. Physical Review A, 2018, 98, .	1.0	19

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37	Superradiant emission from colour centres in diamond. <i>Nature Physics</i> , 2018, 14, 1168-1172.	6.5	106
38	Ramsey interferometry with trapped motional quantum states. <i>Communications Physics</i> , 2018, 1, .	2.0	26
39	One-Dimensional Atomic Superfluids as a Model System for Quantum Thermodynamics. <i>Fundamental Theories of Physics</i> , 2018, , 823-851.	0.1	3
40	Current-induced magnetization hysteresis defines atom trapping in a superconducting atomchip. <i>SciPost Physics</i> , 2018, 4, .	1.5	4
41	Projective phase measurements in one-dimensional Bose gases. , 2018, 5, .		20
42	Hybrid quantum systems in the microwave regime (Conference Presentation). , 2018, , .		0
43	Experimental characterization of a quantum many-body system via higher-order correlations. <i>Nature</i> , 2017, 545, 323-326.	13.7	161
44	High-fidelity spin measurement on the nitrogen-vacancy center. <i>New Journal of Physics</i> , 2017, 19, 103002.	1.2	16
45	Quantum heat waves in a one-dimensional condensate. <i>Physical Review B</i> , 2017, 95, .	1.1	6
46	Ultralong relaxation times in bistable hybrid quantum systems. <i>Science Advances</i> , 2017, 3, e1701626.	4.7	31
47	Coherent Coupling of Remote Spin Ensembles via a Cavity Bus. <i>Physical Review Letters</i> , 2017, 118, 140502.	2.9	53
48	Spectral hole burning and its application in microwave photonics. <i>Nature Photonics</i> , 2017, 11, 36-39.	15.6	43
49	A universal quantum module for quantum communication, computation, and metrology. , 2017, , .		1
50	Optimal control of complex atomic quantum systems. <i>Scientific Reports</i> , 2016, 6, 34187.	1.6	105
51	A quantum repeater network formed with hybrid NV diamond modules (Conference Presentation). , 2016, , .		0
52	Large-scale quantum technology based on luminescent centers in crystals. , 2016, , .		1
53	Macroscopic Quantum Resonators (MAQRO): 2015 update. <i>EPJ Quantum Technology</i> , 2016, 3, .	2.9	77
54	Photonic Quantum Networks formed from NV ⁰ centers. <i>Scientific Reports</i> , 2016, 6, 26284.	1.6	59

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55	Degenerate Bose gases with uniform loss. <i>Physical Review A</i> , 2016, 93, .	1.0	22
56	Matter-wave recombiners for trapped Bose-Einstein condensates. <i>Physical Review A</i> , 2016, 93, .	1.0	15
57	Cooling of a One-Dimensional Bose Gas. <i>Physical Review Letters</i> , 2016, 116, 030402.	2.9	48
58	Prethermalization and universal dynamics in near-integrable quantum systems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016, 2016, 064009.	0.9	162
59	Parametric-squeezing amplification of Bose-Einstein condensates. <i>Physical Review A</i> , 2015, 92, .	1.0	8
60	Smooth Optimal Quantum Control for Robust Solid-State Spin Magnetometry. <i>Physical Review Letters</i> , 2015, 115, 190801.	2.9	57
61	Ultracold Atoms Out of Equilibrium. <i>Annual Review of Condensed Matter Physics</i> , 2015, 6, 201-217.	5.2	228
62	Towards experimental quantum-field tomography with ultracold atoms. <i>Nature Communications</i> , 2015, 6, 7663.	5.8	20
63	Non-equilibrium scale invariance and shortcuts to adiabaticity in a one-dimensional Bose gas. <i>Scientific Reports</i> , 2015, 5, 9820.	1.6	48
64	Quantum technologies with hybrid systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3866-3873.	3.3	568
65	Experimental observation of a generalized Gibbs ensemble. <i>Science</i> , 2015, 348, 207-211.	6.0	439
66	Probing the dark side. <i>Science</i> , 2015, 349, 786-787.	6.0	7
67	Memory-based Quantum Repeaters with NV Centers. , 2014, , .		0
68	Local relaxation and light-cone-like propagation of correlations in a trapped one-dimensional Bose gas. <i>New Journal of Physics</i> , 2014, 16, 053034.	1.2	57
69	Preface: Quantum Communication, Measurement and Computing (QCMC). , 2014, , .		0
70	Studying non-equilibrium many-body dynamics using one-dimensional Bose gases. , 2014, , .		5
71	Single spontaneous photon as a coherent beamsplitter for an atomic matter-wave. , 2014, , .		0
72	Arrays of open, independently tunable microcavities. <i>Optics Express</i> , 2014, 22, 22111.	1.7	24

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73	Chiral Prethermalization in Supersonically Split Condensates. <i>Physical Review Letters</i> , 2014, 113, 190401.	2.9	17
74	Photonic Architecture for Scalable Quantum Information Processing in Diamond. <i>Physical Review X</i> , 2014, 4, .	2.8	108
75	Quantum repeater architecture and NV-based node technology. , 2014, , .		0
76	Interferometry with non-classical motional states of a Bose-Einstein condensate. <i>Nature Communications</i> , 2014, 5, 4009.	5.8	80
77	Protecting a spin ensemble against decoherence in the strong-coupling regime of cavity QED. <i>Nature Physics</i> , 2014, 10, 720-724.	6.5	118
78	Magnetic conveyor belt transport of ultracold atoms to a superconducting atomchip. <i>Applied Physics B: Lasers and Optics</i> , 2014, 116, 1017-1021.	1.1	24
79	Implementation of the Dicke Lattice Model in Hybrid Quantum System Arrays. <i>Physical Review Letters</i> , 2014, 113, 023603.	2.9	89
80	Focus on Bose condensation phenomena in atomic and solid state physics. <i>New Journal of Physics</i> , 2013, 15, 035010.	1.2	0
81	Prethermalization in one-dimensional Bose gases: Description by a stochastic Ornstein-Uhlenbeck process. <i>European Physical Journal: Special Topics</i> , 2013, 217, 43-53.	1.2	37
82	Cold Atom Cosmology. <i>Science</i> , 2013, 341, 1188-1189.	6.0	14
83	Local emergence of thermal correlations in an isolated quantum many-body system. <i>Nature Physics</i> , 2013, 9, 640-643.	6.5	335
84	Connecting photons to spins. , 2013, , .		0
85	Multimode Dynamics and Emergence of a Characteristic Length Scale in a One-Dimensional Quantum System. <i>Physical Review Letters</i> , 2013, 110, 090405.	2.9	51
86	How not to boil. <i>Nature Physics</i> , 2013, 9, 266-267.	6.5	0
87	Integrated Mach-Zehnder interferometer for Bose-Einstein condensates. <i>Nature Communications</i> , 2013, 4, 2077.	5.8	204
88	Prethermalization revealed by the relaxation dynamics of full distribution functions. <i>New Journal of Physics</i> , 2013, 15, 075011.	1.2	69
89	Vibrational state inversion of a Bose-Einstein condensate: optimal control and state tomography. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 104012.	0.6	54
90	Quantum communication utilizing cavity-based quantum devices. , 2013, , .		0

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91	Quantum Device and Architecture based on NV Centers for Quantum Networks. , 2013, , .		0
92	Two-body anticorrelation in a harmonically trapped ideal Bose gas. Physical Review A, 2012, 86, .	1.0	5
93	Optimizing inhomogeneous spin ensembles for quantum memory. Physical Review A, 2012, 86, .	1.0	18
94	Dynamics of parametric matter-wave amplification. Physical Review A, 2012, 86, .	1.0	14
95	Relaxation and Prethermalization in an Isolated Quantum System. Science, 2012, 337, 1318-1322.	6.0	783
96	Hanbury Brown and Twiss correlations across the Bose-Einstein condensation threshold. Nature Physics, 2012, 8, 195-198.	6.5	66
97	Strong magnetic coupling of an inhomogeneous nitrogen-vacancy ensemble to a cavity. Physical Review A, 2012, 85, .	1.0	63
98	Quantum Information Device Based on NV Diamond Centers for Quantum Network. , 2012, , .		0
99	Cavity QED with Magnetically Coupled Collective Spin States. Physical Review Letters, 2011, 107, 060502.	2.9	275
100	Mach-Zehnder interferometry with interacting trapped Bose-Einstein condensates. Physical Review A, 2011, 84, .	1.0	28
101	Two-Point Phase Correlations of a One-Dimensional Bosonic Josephson Junction. Physical Review Letters, 2011, 106, 020407.	2.9	78
102	Absorption imaging of ultracold atoms on atom chips. Optics Express, 2011, 19, 8471.	1.7	36
103	Stochastic Optimization of Bose-Einstein Condensation Using a Genetic Algorithm. , 2011, , .		5
104	Integrated circuits for matter waves. Physics Magazine, 2011, 4, .	0.1	0
105	Embracing Quantum Metrology with Wide Arms. Physics Magazine, 2011, 4, .	0.1	1
106	Single spontaneous photon as a coherent beamsplitter for an atomic matter-wave. Nature Physics, 2011, 7, 379-382.	6.5	13
107	Twin-atom beams. Nature Physics, 2011, 7, 608-611.	6.5	155
108	Controlling quantum information processing in hybrid systems on chips. Quantum Information Processing, 2011, 10, 1037-1060.	1.0	23

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109	Electron beam driven alkali metal atom source for loading a magneto-optical trap in a cryogenic environment. <i>Applied Physics B: Lasers and Optics</i> , 2011, 102, 819-823.	1.1	3
110	The Shapiro effect in atomchip-based bosonic Josephson junctions. <i>New Journal of Physics</i> , 2011, 13, 065026.	1.2	26
111	Dephasing in coherently split quasicondensates. <i>Physical Review A</i> , 2011, 83, .	1.0	23
112	The dynamics and prethermalization of one-dimensional quantum systems probed through the full distributions of quantum noise. <i>New Journal of Physics</i> , 2011, 13, 073018.	1.2	109
113	Enhancing photon collection from quantum emitters in diamond. <i>Progress in Informatics</i> , 2011, , 33.	0.2	7
114	Shaking the condensates: Optimal number squeezing in the dynamic splitting of a Bose-Einstein condensate. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 432-435.	1.3	1
115	Ramsey Interference in One-Dimensional Systems: The Full Distribution Function of Fringe Contrast as a Probe of Many-Body Dynamics. <i>Physical Review Letters</i> , 2010, 104, 255302.	2.9	56
116	Cavity QED with an ultracold ensemble on a chip: Prospects for strong magnetic coupling at finite temperatures. <i>Physical Review A</i> , 2010, 82, .	1.0	58
117	rf-field-induced Feshbach resonances. <i>Physical Review A</i> , 2010, 81, .	1.0	39
118	Two-point density correlations of quasicondensates in free expansion. <i>Physical Review A</i> , 2010, 81, .	1.0	84
119	Weakly Interacting Bose Gas in the One-Dimensional Limit. <i>Physical Review Letters</i> , 2010, 105, 265302.	2.9	55
120	Fluctuations and Stochastic Processes in One-Dimensional Many-Body Quantum Systems. <i>Physical Review Letters</i> , 2010, 105, 015301.	2.9	42
121	A single-atom detector integrated on an atom chip: fabrication, characterization and application. <i>New Journal of Physics</i> , 2010, 12, 095005.	1.2	25
122	Thermalization in a quasi-one-dimensional ultracold bosonic gas. <i>New Journal of Physics</i> , 2010, 12, 055023.	1.2	52
123	Atom interferometry with trapped Bose-Einstein condensates: impact of atom-atom interactions. <i>New Journal of Physics</i> , 2010, 12, 065036.	1.2	60
124	Ramsey's method of separated oscillating fields and its application to gravitationally induced quantum phase shifts. <i>Physical Review D</i> , 2010, 81, .	1.6	77
125	Integrated atom detector: Single atoms and photon statistics. <i>Physical Review A</i> , 2009, 79, .	1.0	17
126	Optimal control of number squeezing in trapped Bose-Einstein condensates. <i>Physical Review A</i> , 2009, 80, .	1.0	60

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127	Restoring integrability in one-dimensional quantum gases by two-particle correlations. <i>Physical Review A</i> , 2009, 79, .	1.0	8
128	Strong Magnetic Coupling of an Ultracold Gas to a Superconducting Waveguide Cavity. <i>Physical Review Letters</i> , 2009, 103, 043603.	2.9	212
129	Density ripples in expanding low-dimensional gases as a probe of correlations. <i>Physical Review A</i> , 2009, 80, .	1.0	83
130	Optimizing number squeezing when splitting a mesoscopic condensate. <i>Physical Review A</i> , 2009, 79, .	1.0	84
131	Single-particle-sensitive imaging of freely propagating ultracold atoms. <i>New Journal of Physics</i> , 2009, 11, 103039.	1.2	88
132	Optimizing atom interferometry on atom chips. <i>Fortschritte Der Physik</i> , 2009, 57, 1121-1132.	1.5	6
133	A millisecond quantum memory for scalable quantum networks. <i>Nature Physics</i> , 2009, 5, 95-99.	6.5	217
134	Reversible state transfer between superconducting qubits and atomic ensembles. <i>Physical Review A</i> , 2009, 79, .	1.0	128
135	Optics and interferometry with atoms and molecules. <i>Reviews of Modern Physics</i> , 2009, 81, 1051-1129.	16.4	1,098
136	Simple integrated single-atom detector. <i>Optics Letters</i> , 2009, 34, 259.	1.7	22
137	Optical lattice on an atom chip. <i>Optics Letters</i> , 2009, 34, 3463.	1.7	17
138	Dephasing in two decoupled one-dimensional Bose-Einstein condensates and the subexponential decay of the interwell coherence. <i>European Physical Journal B</i> , 2009, 68, 335-339.	0.6	14
139	Quantum Memory with Optically Trapped Atoms. <i>Physical Review Letters</i> , 2008, 101, 120501.	2.9	23
140	Experimental demonstration of a BDCZ quantum repeater node. <i>Nature</i> , 2008, 454, 1098-1101.	13.7	372
141	Memory-built-in quantum teleportation with photonic and atomic qubits. <i>Nature Physics</i> , 2008, 4, 103-107.	6.5	170
142	Probing quantum and thermal noise in an interacting many-body system. <i>Nature Physics</i> , 2008, 4, 489-495.	6.5	211
143	Long-Range Order in Electronic Transport Through Disordered Metal Films. <i>Science</i> , 2008, 319, 1226-1229.	6.0	67
144	Creation of macroscopic quantum superposition states by a measurement. <i>Europhysics Letters</i> , 2008, 83, 60004.	0.7	10

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145	Stochastic optimization of a cold atom experiment using a genetic algorithm. Applied Physics Letters, 2008, 93, .	1.5	25
146	Multistage Entanglement Swapping. Physical Review Letters, 2008, 101, 080403.	2.9	101
147	Multilayer atom chips for versatile atom micromanipulation. Applied Physics Letters, 2008, 92, .	1.5	43
148	Model for organized current patterns in disordered conductors. Physical Review B, 2008, 77, .	1.1	14
149	Breakdown of Integrability in a Quasi-1D Ultracold Bosonic Gas. Physical Review Letters, 2008, 100, 210403.	2.9	91
150	Potential roughness near lithographically fabricated atom chips. Physical Review A, 2007, 76, .	1.0	46
151	Optimal quantum control of Bose-Einstein condensates in magnetic microtraps. Physical Review A, 2007, 75, .	1.0	96
152	Fault-tolerant quantum repeater with atomic ensembles and linear optics. Physical Review A, 2007, 76, .	1.0	108
153	Demonstration of a Stable Atom-Photon Entanglement Source for Quantum Repeaters. Physical Review Letters, 2007, 99, 180505.	2.9	108
154	Synchronized Independent Narrow-Band Single Photons and Efficient Generation of Photonic Entanglement. Physical Review Letters, 2007, 98, 180503.	2.9	56
155	Designing potentials by sculpturing wires. Physical Review A, 2007, 75, .	1.0	10
156	Collisional decoherence during writing and reading quantum states. Physical Review A, 2007, 75, .	1.0	47
157	High-fidelity entanglement via molecular dissociation in integrated atom optics. Physical Review A, 2007, 75, .	1.0	18
158	Ultracold atoms in radio-frequency dressed potentials beyond the rotating-wave approximation. Physical Review A, 2007, 76, .	1.0	62
159	Robust Creation of Entanglement between Remote Memory Qubits. Physical Review Letters, 2007, 98, 240502.	2.9	179
160	Non-equilibrium coherence dynamics in one-dimensional Bose gases. Nature, 2007, 449, 324-327.	13.7	621
161	Decoherence Dynamics in Interferometry with One-Dimensional Bose-Einstein Condensates. , 2007, , .		0
162	Sensing electric and magnetic fields with Bose-Einstein condensates. Applied Physics Letters, 2006, 88, 264103.	1.5	79

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163	Manipulation of ultracold atoms in dressed adiabatic radio-frequency potentials. Physical Review A, 2006, 74, .	1.0	53
164	Adiabatic radio-frequency potentials for the coherent manipulation of matter waves. Physical Review A, 2006, 73, .	1.0	124
165	Detecting magnetically guided atoms with an optical cavity. Optics Letters, 2006, 31, 268.	1.7	36
166	Detecting neutral atoms on an atom chip. Fortschritte Der Physik, 2006, 54, 746-764.	1.5	11
167	Experimental quantum teleportation of a two-qubit composite system. Nature Physics, 2006, 2, 678-682.	6.5	174
168	Radiofrequency-dressed-state potentials for neutral atoms. Nature Physics, 2006, 2, 710-716.	6.5	164
169	A Double Well Interferometer on an Atom Chip. Quantum Information Processing, 2006, 5, 537-558.	1.0	13
170	Random on-site interactions versus random potential in ultra cold atoms in optical lattices. Applied Physics B: Lasers and Optics, 2006, 82, 217-224.	1.1	7
171	Deterministic and Storable Single-Photon Source Based on a Quantum Memory. Physical Review Letters, 2006, 97, 173004.	2.9	127
172	Coherent matter wave optics on an atom chip. , 2006, , .		0
173	Theoretical analysis of a realistic atom-chip quantum gate. Physical Review A, 2006, 74, .	1.0	42
174	Quasicondensate growth on an atom chip. Physical Review A, 2006, 73, .	1.0	48
175	Deterministic and efficient quantum cryptography based on Bell's theorem. Physical Review A, 2006, 73, .	1.0	13
176	MIXED INTERNAL-EXTERNAL STATE APPROACH FOR QUANTUM COMPUTATION WITH NEUTRAL ATOMS ON ATOM CHIPS. , 2006, , .		0
177	Cold atoms close to surfaces: measuring magnetic field roughness and disorder potentials. Journal of Physics: Conference Series, 2005, 19, 56-65.	0.3	13
178	Cold atoms near surfaces: designing potentials by sculpturing wires. Journal of Physics: Conference Series, 2005, 19, 30-33.	0.3	9
179	A simple quantum gate with atom chips. European Physical Journal D, 2005, 35, 165-171.	0.6	21
180	Relevance of sub-surface chip layers for the lifetime of magnetically trapped atoms. European Physical Journal D, 2005, 35, 97-104.	0.6	21

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181	Matter-wave interferometry in a double well on an atom chip. <i>Nature Physics</i> , 2005, 1, 57-62.	6.5	661
182	Microscopic magnetic-field imaging. <i>Nature</i> , 2005, 435, 440-440.	13.7	129
183	Atom waves in passing. <i>Nature</i> , 2005, 437, 1102-1102.	13.7	2
184	Ultracold atoms on atom chips: Manipulation at the $\hat{1}/4$ m distance scale. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	1
185	Rydberg atoms in a magnetic quadrupole field. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005, 38, S151-S170.	0.6	4
186	Two-wire guides and traps with vertical bias fields on atom chips. <i>Physical Review A</i> , 2005, 72, .	1.0	8
187	Ultracold Atoms in Optical Lattices with Random On-Site Interactions. <i>Physical Review Letters</i> , 2005, 95, 170401.	2.9	87
188	Quantum scattering in quasi-one-dimensional cylindrical confinement. <i>Physical Review A</i> , 2005, 72, .	1.0	34
189	Fabrication of alignment structures for a fiber resonator by use of deep-ultraviolet lithography. <i>Applied Optics</i> , 2005, 44, 6857.	2.1	16
190	Conference on Atoms and Molecules near Surfaces (CAMS). <i>Journal of Physics: Conference Series</i> , 2005, 19, .	0.3	2
191	Rydberg atoms in magnetic quadrupole traps. <i>Europhysics Letters</i> , 2004, 65, 478-484.	0.7	14
192	Electronic structure of atoms in magnetic quadrupole traps. <i>Physical Review A</i> , 2004, 69, .	1.0	11
193	Rydberg atoms in a magnetic guide. <i>Physical Review A</i> , 2004, 70, .	1.0	15
194	Atom chips: Fabrication and thermal properties. <i>Applied Physics Letters</i> , 2004, 85, 2980-2982.	1.5	86
195	Failure of geometric electromagnetism in the adiabatic vector Kepler problem. <i>Physical Review A</i> , 2004, 69, .	1.0	5
196	Microtraps and Atom Chips: Toolboxes for Cold Atom Physics. <i>General Relativity and Gravitation</i> , 2004, 36, 2317-2329.	0.7	9
197	Optimized magneto-optical trap for experiments with ultracold atoms near surfaces. <i>Physical Review A</i> , 2004, 69, .	1.0	66
198	Atom fiber for omnidirectional guiding of cold neutral atoms. <i>Optics Letters</i> , 2004, 29, 2145.	1.7	13

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199	Fundamental limits for coherent manipulation on atom chips. Applied Physics B: Lasers and Optics, 2003, 76, 173-182.	1.1	66
200	Bose-Einstein condensation in a simple microtrap. Physical Review A, 2003, 67, .	1.0	80
201	Bose-Einstein condensation in an atom chip. , 2003, , .		0
202	Trapping and Manipulating Neutral Atoms with Electrostatic Fields. Physical Review Letters, 2003, 91, 233201.	2.9	74
203	Possibility of single-atom detection on a chip. Physical Review A, 2003, 67, .	1.0	83
204	A Bose-Einstein condensate in a microtrap. Journal of Optics B: Quantum and Semiclassical Optics, 2003, 5, S143-S149.	1.4	18
205	Multimode Interferometer for Guided Matter Waves. Physical Review Letters, 2002, 88, 100401.	2.9	122
206	Quantum information processing with neutral atoms on an atom chip. Journal of Modern Optics, 2002, 49, 1375-1388.	0.6	31
207	Microscopic Atom Optics: From Wires to an Atom Chip. Advances in Atomic, Molecular and Optical Physics, 2002, , 263-356.	2.3	553
208	On the observation of decoherence with a movable mirror. European Physical Journal D, 2001, 13, 93-107.	0.6	7
209	Miniaturizing atom optics: from wires to atom chips. Comptes Rendus Physique, 2001, 2, 551-563.	0.1	1
210	Mastering the language of atoms. Nature, 2001, 413, 466-467.	13.7	11
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