

Jrg Schmiedmayer

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257
papers

15,195
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h-index

117
g-index

295
ext. papers

17,096
ext. citations

7.2
avg, IF

6.46
L-index

#	Paper	IF	Citations
257	Optics and interferometry with atoms and molecules. <i>Reviews of Modern Physics</i> , 2009 , 81, 1051-1129	40.5	895
256	Relaxation and prethermalization in an isolated quantum system. <i>Science</i> , 2012 , 337, 1318-22	33.3	649
255	Matter-wave interferometry in a double well on an atom chip. <i>Nature Physics</i> , 2005 , 1, 57-62	16.2	579
254	Non-equilibrium coherence dynamics in one-dimensional Bose gases. <i>Nature</i> , 2007 , 449, 324-7	50.4	562
253	Microscopic Atom Optics: From Wires to an Atom Chip. <i>Advances in Atomic, Molecular and Optical Physics</i> , 2002 , 263-356	1.7	501
252	Near-field imaging of atom diffraction gratings: The atomic Talbot effect. <i>Physical Review A</i> , 1995 , 51, R14-R17	2.6	474
251	Quantum technologies with hybrid systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 3866-73	11.5	392
250	Experimental observation of a generalized Gibbs ensemble. <i>Science</i> , 2015 , 348, 207-11	33.3	340
249	Experimental demonstration of a BDCZ quantum repeater node. <i>Nature</i> , 2008 , 454, 1098-101	50.4	303
248	Controlling cold atoms using nanofabricated surfaces: atom chips. <i>Physical Review Letters</i> , 2000 , 84, 4749-52	7.4	289
247	Local emergence of thermal correlations in an isolated quantum many-body system. <i>Nature Physics</i> , 2013 , 9, 640-643	16.2	281
246	Cavity QED with magnetically coupled collective spin states. <i>Physical Review Letters</i> , 2011 , 107, 060502	7.4	226
245	Measurement of the electric polarizability of sodium with an atom interferometer. <i>Physical Review A</i> , 1995 , 51, 3883-3888	2.6	197
244	Photon scattering from atoms in an atom interferometer: Coherence lost and regained. <i>Physical Review Letters</i> , 1995 , 75, 3783-3787	7.4	188
243	Probing quantum and thermal noise in an interacting many-body system. <i>Nature Physics</i> , 2008 , 4, 489-495	16.2	187
242	Strong magnetic coupling of an ultracold gas to a superconducting waveguide cavity. <i>Physical Review Letters</i> , 2009 , 103, 043603	7.4	180
241	A millisecond quantum memory for scalable quantum networks. <i>Nature Physics</i> , 2009 , 5, 95-99	16.2	180

240	Quantum gates with neutral atoms: Controlling collisional interactions in time-dependent traps. <i>Physical Review A</i> , 2000 , 61,	2.6	167
239	Integrated Mach-Zehnder interferometer for Bose-Einstein condensates. <i>Nature Communications</i> , 2013 , 4, 2077	17.4	163
238	Beam splitter for guided atoms. <i>Physical Review Letters</i> , 2000 , 85, 5483-7	7.4	157
237	Atom wave interferometry with diffraction gratings of light. <i>Physical Review Letters</i> , 1995 , 75, 2633-2637	7.4	156
236	Ultracold Atoms Out of Equilibrium. <i>Annual Review of Condensed Matter Physics</i> , 2015 , 6, 201-217	19.7	151
235	Robust creation of entanglement between remote memory qubits. <i>Physical Review Letters</i> , 2007 , 98, 240502	7.4	151
234	Guiding Neutral Atoms with a Wire. <i>Physical Review Letters</i> , 1999 , 82, 2014-2017	7.4	150
233	Memory-built-in quantum teleportation with photonic and atomic qubits. <i>Nature Physics</i> , 2008 , 4, 103-107	16.2	142
232	Radiofrequency-dressed-state potentials for neutral atoms. <i>Nature Physics</i> , 2006 , 2, 710-716	16.2	141
231	Twin-atom beams. <i>Nature Physics</i> , 2011 , 7, 608-611	16.2	138
230	Experimental quantum teleportation of a two-qubit composite system. <i>Nature Physics</i> , 2006 , 2, 678-682	16.2	136
229	Measurement of the electric polarizability of the neutron. <i>Physical Review Letters</i> , 1991 , 66, 1015-1018	7.4	130
228	Prethermalization and universal dynamics in near-integrable quantum systems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016 , 2016, 064009	1.9	127
227	Optics and interferometry with Na ₂ molecules. <i>Physical Review Letters</i> , 1995 , 74, 4783-4786	7.4	125
226	Reversible state transfer between superconducting qubits and atomic ensembles. <i>Physical Review A</i> , 2009 , 79,	2.6	114
225	Bose-Einstein condensates: microscopic magnetic-field imaging. <i>Nature</i> , 2005 , 435, 440	50.4	111
224	Multimode interferometer for guided matter waves. <i>Physical Review Letters</i> , 2002 , 88, 100401	7.4	110
223	Adiabatic radio-frequency potentials for the coherent manipulation of matter waves. <i>Physical Review A</i> , 2006 , 73,	2.6	109

222	Deterministic and storable single-photon source based on a quantum memory. <i>Physical Review Letters</i> , 2006 , 97, 173004	7.4	107
221	Atom Waves in Crystals of Light. <i>Physical Review Letters</i> , 1996 , 77, 4980-4983	7.4	106
220	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	2.9	102
219	Experimental characterization of a quantum many-body system via higher-order correlations. <i>Nature</i> , 2017 , 545, 323-326	50.4	97
218	Fault-tolerant quantum repeater with atomic ensembles and linear optics. <i>Physical Review A</i> , 2007 , 76,	2.6	94
217	Demonstration of a stable atom-photon entanglement source for quantum repeaters. <i>Physical Review Letters</i> , 2007 , 99, 180505	7.4	91
216	Inertial sensing with classical atomic beams. <i>Physical Review A</i> , 1996 , 54, 3165-3176	2.6	90
215	Protecting a spin ensemble against decoherence in the strong-coupling regime of cavity QED. <i>Nature Physics</i> , 2014 , 10, 720-724	16.2	88
214	Photonic Architecture for Scalable Quantum Information Processing in Diamond. <i>Physical Review X</i> , 2014 , 4,	9.1	85
213	Guiding and trapping a neutral atom on a wire. <i>Physical Review A</i> , 1995 , 52, R13-R16	2.6	85
212	Universal dynamics in an isolated one-dimensional Bose gas far from equilibrium. <i>Nature</i> , 2018 , 563, 225-229	5.2	84
211	Index of refraction of various gases for sodium matter waves. <i>Physical Review Letters</i> , 1995 , 74, 1043-1047	7.4	82
210	Optimal quantum control of Bose-Einstein condensates in magnetic microtraps. <i>Physical Review A</i> , 2007 , 75,	2.6	81
209	Probing a Singular Potential with Cold Atoms: A Neutral Atom and a Charged Wire. <i>Physical Review Letters</i> , 1998 , 81, 737-741	7.4	79
208	Atom chips: Fabrication and thermal properties. <i>Applied Physics Letters</i> , 2004 , 85, 2980-2982	3.4	78
207	Single-particle-sensitive imaging of freely propagating ultracold atoms. <i>New Journal of Physics</i> , 2009 , 11, 103039	2.9	77
206	Optimizing number squeezing when splitting a mesoscopic condensate. <i>Physical Review A</i> , 2009 , 79,	2.6	76
205	Density ripples in expanding low-dimensional gases as a probe of correlations. <i>Physical Review A</i> , 2009 , 80,	2.6	75

204	Breakdown of integrability in a quasi-1D ultracold bosonic gas. <i>Physical Review Letters</i> , 2008 , 100, 210403.	7.4	75
203	Ultracold atoms in optical lattices with random on-site interactions. <i>Physical Review Letters</i> , 2005 , 95, 170401	7.4	75
202	Possibility of single-atom detection on a chip. <i>Physical Review A</i> , 2003 , 67,	2.6	74
201	Two-point density correlations of quasicondensates in free expansion. <i>Physical Review A</i> , 2010 , 81,	2.6	72
200	Sensing electric and magnetic fields with Bose-Einstein condensates. <i>Applied Physics Letters</i> , 2006 , 88, 264103	3.4	71
199	Bose-Einstein condensation in a simple microtrap. <i>Physical Review A</i> , 2003 , 67,	2.6	71
198	Uncover Topology by Quantum Quench Dynamics. <i>Physical Review Letters</i> , 2018 , 121, 250403	7.4	70
197	Trapping and manipulating neutral atoms with electrostatic fields. <i>Physical Review Letters</i> , 2003 , 91, 233201	7.4	69
196	Implementation of the Dicke lattice model in hybrid quantum system arrays. <i>Physical Review Letters</i> , 2014 , 113, 023603	7.4	68
195	Multistage entanglement swapping. <i>Physical Review Letters</i> , 2008 , 101, 080403	7.4	68
194	Optimal control of complex atomic quantum systems. <i>Scientific Reports</i> , 2016 , 6, 34187	4.9	67
193	Tailored Complex Potentials and Friedel's Law in Atom Optics. <i>Physical Review Letters</i> , 1997 , 79, 3327-3330	7.4	66
192	Two-point phase correlations of a one-dimensional bosonic Josephson junction. <i>Physical Review Letters</i> , 2011 , 106, 020407	7.4	65
191	Interferometry with non-classical motional states of a Bose-Einstein condensate. <i>Nature Communications</i> , 2014 , 5, 4009	17.4	64
190	Inclusive properties of D mesons produced in 360 GeV interactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1985 , 161, 400-406	4.2	64
189	Ramsey method of separated oscillating fields and its application to gravitationally induced quantum phase shifts. <i>Physical Review D</i> , 2010 , 81,	4.9	60
188	Hanbury Brown and Twiss correlations across the Bose-Einstein condensation threshold. <i>Nature Physics</i> , 2012 , 8, 195-198	16.2	59
187	Constraint on hypothetical light interacting bosons from low-energy neutron experiments. <i>Physical Review Letters</i> , 1992 , 68, 1472-1475	7.4	59

186	Fundamental limits for coherent manipulation on atom chips. <i>Applied Physics B: Lasers and Optics</i> , 2003 , 76, 173-182	1.9	58
185	Optimized magneto-optical trap for experiments with ultracold atoms near surfaces. <i>Physical Review A</i> , 2004 , 69,	2.6	58
184	Strong magnetic coupling of an inhomogeneous nitrogen-vacancy ensemble to a cavity. <i>Physical Review A</i> , 2012 , 85,	2.6	57
183	Prethermalization revealed by the relaxation dynamics of full distribution functions. <i>New Journal of Physics</i> , 2013 , 15, 075011	2.9	57
182	Long-range order in electronic transport through disordered metal films. <i>Science</i> , 2008 , 319, 1226-9	33.3	57
181	Macroscopic Quantum Resonators (MAQRO): 2015 update. <i>EPJ Quantum Technology</i> , 2016 , 3,	6.9	57
180	Quantum wires and quantum dots for neutral atoms. <i>European Physical Journal D</i> , 1998 , 4, 57-62	1.3	56
179	Ultracold atoms in radio-frequency dressed potentials beyond the rotating-wave approximation. <i>Physical Review A</i> , 2007 , 76,	2.6	55
178	Superradiant emission from colour centres in diamond. <i>Nature Physics</i> , 2018 , 14, 1168-1172	16.2	55
177	Optimal control of number squeezing in trapped Bose-Einstein condensates. <i>Physical Review A</i> , 2009 , 80,	2.6	54
176	Cavity QED with an ultracold ensemble on a chip: Prospects for strong magnetic coupling at finite temperatures. <i>Physical Review A</i> , 2010 , 82,	2.6	52
175	Adiabatic following in standing-wave diffraction of atoms. <i>Applied Physics B: Lasers and Optics</i> , 1999 , 69, 303-309	1.9	52
174	Weakly interacting Bose gas in the one-dimensional limit. <i>Physical Review Letters</i> , 2010 , 105, 265302	7.4	50
173	Manipulation of ultracold atoms in dressed adiabatic radio-frequency potentials. <i>Physical Review A</i> , 2006 , 74,	2.6	50
172	A neutral atom and a wire: towards mesoscopic atom optics. <i>Applied Physics B: Lasers and Optics</i> , 1999 , 69, 291-301	1.9	50
171	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	1.3	49
170	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	7.4	49
169	Synchronized independent narrow-band single photons and efficient generation of photonic entanglement. <i>Physical Review Letters</i> , 2007 , 98, 180503	7.4	49

168	Recurrences in an isolated quantum many-body system. <i>Science</i> , 2018 , 360, 307-310	33.3	48
167	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	2.9	48
166	Atom interferometry with trapped Bose-Einstein condensates: impact of atom-atom interactions. <i>New Journal of Physics</i> , 2010 , 12, 065036	2.9	47
165	Quasicondensate growth on an atom chip. <i>Physical Review A</i> , 2006 , 73,	2.6	47
164	Multimode dynamics and emergence of a characteristic length scale in a one-dimensional quantum system. <i>Physical Review Letters</i> , 2013 , 110, 090405	7.4	45
163	Nanometer definition of atomic beams with masks of light. <i>Physical Review A</i> , 1997 , 56, R4365-R4368	2.6	43
162	Theoretical analysis of a realistic atom-chip quantum gate. <i>Physical Review A</i> , 2006 , 74,	2.6	42
161	Potential roughness near lithographically fabricated atom chips. <i>Physical Review A</i> , 2007 , 76,	2.6	42
160	A wire trap for neutral atoms. <i>Applied Physics B: Lasers and Optics</i> , 1995 , 60, 169-179	1.9	42
159	Smooth Optimal Quantum Control for Robust Solid-State Spin Magnetometry. <i>Physical Review Letters</i> , 2015 , 115, 190801	7.4	41
158	Thermalization in a quasi-one-dimensional ultracold bosonic gas. <i>New Journal of Physics</i> , 2010 , 12, 055023	2.9	41
157	Coherent Frequency Shift of Atomic Matter Waves. <i>Physical Review Letters</i> , 1996 , 77, 5160-5163	7.4	41
156	Micromanipulation of neutral atoms with nanofabricated structures. <i>Applied Physics B: Lasers and Optics</i> , 2000 , 70, 721-730	1.9	40
155	Non-equilibrium scale invariance and shortcuts to adiabaticity in a one-dimensional Bose gas. <i>Scientific Reports</i> , 2015 , 5, 9820	4.9	38
154	Cooling of a One-Dimensional Bose Gas. <i>Physical Review Letters</i> , 2016 , 116, 030402	7.4	38
153	Collisional decoherence during writing and reading quantum states. <i>Physical Review A</i> , 2007 , 75,	2.6	38
152	Multilayer atom chips for versatile atom micromanipulation. <i>Applied Physics Letters</i> , 2008 , 92, 254102	3.4	37
151	Solid-state electron spin lifetime limited by phononic vacuum modes. <i>Nature Materials</i> , 2018 , 17, 313-317	7.7	36

150	Relaxation to a Phase-Locked Equilibrium State in a One-Dimensional Bosonic Josephson Junction. <i>Physical Review Letters</i> , 2018 , 120, 173601	7.4	36
149	Fluctuations and stochastic processes in one-dimensional many-body quantum systems. <i>Physical Review Letters</i> , 2010 , 105, 015301	7.4	35
148	Measurement of the electric polarizability of the neutron. <i>Physical Review Letters</i> , 1988 , 61, 1065-1068	7.4	34
147	Photonic Quantum Networks formed from NV(-) centers. <i>Scientific Reports</i> , 2016 , 6, 26284	4.9	33
146	Dynamical diffraction of atomic matter waves by crystals of light. <i>Physical Review A</i> , 1999 , 60, 456-472	2.6	33
145	Prethermalization in one-dimensional Bose gases: Description by a stochastic Ornstein-Uhlenbeck process. <i>European Physical Journal: Special Topics</i> , 2013 , 217, 43-53	2.3	32
144	rf-field-induced Feshbach resonances. <i>Physical Review A</i> , 2010 , 81,	2.6	32
143	Coherent Coupling of Remote Spin Ensembles via a Cavity Bus. <i>Physical Review Letters</i> , 2017 , 118, 140502	4.4	31
142	Absorption imaging of ultracold atoms on atom chips. <i>Optics Express</i> , 2011 , 19, 8471-85	3.3	31
141	Scattering a neutral atom from a charged wire. <i>Europhysics Letters</i> , 1997 , 38, 405-410	1.6	31
140	Detecting magnetically guided atoms with an optical cavity. <i>Optics Letters</i> , 2006 , 31, 268-70	3	31
139	Spectral hole burning and its application in microwave photonics. <i>Nature Photonics</i> , 2017 , 11, 36-39	33.9	30
138	Quantum scattering in quasi-one-dimensional cylindrical confinement. <i>Physical Review A</i> , 2005 , 72,	2.6	30
137	Quantum information processing with neutral atoms on an atom chip. <i>Journal of Modern Optics</i> , 2002 , 49, 1375-1388	1.1	30
136	The equivalence of the gravitational and inertial mass of the neutron. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1989 , 284, 59-62	1.2	28
135	D correlations in 360 GeV/c \bar{p} interactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1985 , 164, 404-409	4.2	27
134	Ultralong relaxation times in bistable hybrid quantum systems. <i>Science Advances</i> , 2017 , 3, e1701626	14.3	25
133	The Shapiro effect in atomchip-based bosonic Josephson junctions. <i>New Journal of Physics</i> , 2011 , 13, 065026	2.9	25

132	Neutral d-meson properties in 360 GeV/c \bar{p} interactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1984 , 146, 266-272	4.2	25
131	Mach-Zehnder interferometry with interacting trapped Bose-Einstein condensates. <i>Physical Review A</i> , 2011 , 84,	2.6	23
130	A single-atom detector integrated on an atom chip: fabrication, characterization and application. <i>New Journal of Physics</i> , 2010 , 12, 095005	2.9	22
129	Simple integrated single-atom detector. <i>Optics Letters</i> , 2009 , 34, 259-61	3	22
128	Stochastic optimization of a cold atom experiment using a genetic algorithm. <i>Applied Physics Letters</i> , 2008 , 93, 264101	3.4	22
127	Quantum memory with optically trapped atoms. <i>Physical Review Letters</i> , 2008 , 101, 120501	7.4	22
126	Arrays of open, independently tunable microcavities. <i>Optics Express</i> , 2014 , 22, 22111-20	3.3	21
125	Controlling quantum information processing in hybrid systems on chips. <i>Quantum Information Processing</i> , 2011 , 10, 1037-1060	1.6	21
124	Degenerate Bose gases with uniform loss. <i>Physical Review A</i> , 2016 , 93,	2.6	20
123	Introducing iFluid: a numerical framework for solving hydrodynamical equations in integrable models. <i>SciPost Physics</i> , 2020 , 8,	6.1	20
122	Dephasing in coherently split quasicondensates. <i>Physical Review A</i> , 2011 , 83,	2.6	19
121	A simple quantum gate with atom chips. <i>European Physical Journal D</i> , 2005 , 35, 165-171	1.3	19
120	Relevance of sub-surface chip layers for the lifetime of magnetically trapped atoms. <i>European Physical Journal D</i> , 2005 , 35, 97-104	1.3	19
119	Atom interferometry 1993 , 21-35		19
118	Designing arbitrary one-dimensional potentials on an atom chip. <i>Optics Express</i> , 2019 , 27, 33474-33487	3.3	19
117	Towards experimental quantum-field tomography with ultracold atoms. <i>Nature Communications</i> , 2015 , 6, 7663	17.4	18
116	Magnetic conveyor belt transport of ultracold atoms to a superconducting atomchip. <i>Applied Physics B: Lasers and Optics</i> , 2014 , 116, 1017-1021	1.9	18
115	Relaxation, chaos, and thermalization in a three-mode model of a Bose-Einstein condensate. <i>New Journal of Physics</i> , 2018 , 20, 113039	2.9	18

114	Chiral prethermalization in supersonically split condensates. <i>Physical Review Letters</i> , 2014 , 113, 190401	7.4	17
113	Optimizing inhomogeneous spin ensembles for quantum memory. <i>Physical Review A</i> , 2012 , 86,	2.6	17
112	Magnetic coherences in atom interferometry. <i>Journal De Physique II</i> , 1994 , 4, 2029-2042		17
111	Optical lattice on an atom chip. <i>Optics Letters</i> , 2009 , 34, 3463-5	3	16
110	Trapping polar molecules with a charged wire. <i>Europhysics Letters</i> , 1996 , 36, 407-412	1.6	16
109	A Bose-Einstein condensate in a microtrap. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2003 , 5, S143-S149		16
108	Trapping neutral atoms with a wire. <i>Physical Review A</i> , 2001 , 64,	2.6	16
107	Modulation of atomic de Broglie waves using Bragg diffraction. <i>Quantum and Semiclassical Optics: Journal of the European Optical Society Part B</i> , 1996 , 8, 497-509		15
106	Rydberg atoms in a magnetic guide. <i>Physical Review A</i> , 2004 , 70,	2.6	15
105	Matter waves in time-modulated complex light potentials. <i>Physical Review A</i> , 2000 , 62,	2.6	15
104	Shortcut loading a Bose-Einstein condensate into an optical lattice. <i>New Journal of Physics</i> , 2018 , 20, 055005	2.9	15
103	Integrated atom detector: Single atoms and photon statistics. <i>Physical Review A</i> , 2009 , 79,	2.6	14
102	High-fidelity entanglement via molecular dissociation in integrated atom optics. <i>Physical Review A</i> , 2007 , 75,	2.6	14
101	Rydberg atoms in magnetic quadrupole traps. <i>Europhysics Letters</i> , 2004 , 65, 478-484	1.6	14
100	Extracting the Field Theory Description of a Quantum Many-Body System from Experimental Data. <i>Physical Review X</i> , 2020 , 10,	9.1	14
99	Projective phase measurements in one-dimensional Bose gases 2018 , 5,		14
98	Physics. Cold atom cosmology. <i>Science</i> , 2013 , 341, 1188-9	33.3	13
97	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	1.2	13

96	Atom fiber for omnidirectional guiding of cold neutral atoms. <i>Optics Letters</i> , 2004 , 29, 2145-7	3	13
95	Dynamics of parametric matter-wave amplification. <i>Physical Review A</i> , 2012 , 86,	2.6	12
94	Fabrication of alignment structures for a fiber resonator by use of deep-ultraviolet lithography. <i>Applied Optics</i> , 2005 , 44, 6857-60	1.7	12
93	A Double Well Interferometer on an Atom Chip. <i>Quantum Information Processing</i> , 2006 , 5, 537-558	1.6	12
92	Cold atoms close to surfaces: measuring magnetic field roughness and disorder potentials. <i>Journal of Physics: Conference Series</i> , 2005 , 19, 56-65	0.3	12
91	Requirements for coherent atom channeling. <i>Optics Communications</i> , 2000 , 179, 129-135	2	12
90	Analytical pendulum model for a bosonic Josephson junction. <i>Physical Review A</i> , 2018 , 98,	2.6	12
89	Ramsey interferometry with trapped motional quantum states. <i>Communications Physics</i> , 2018 , 1,	5.4	12
88	Optics and Interferometry with Atoms and Molecules 1997 , 1-83		11
87	Model for organized current patterns in disordered conductors. <i>Physical Review B</i> , 2008 , 77,	3.3	11
86	Deterministic and efficient quantum cryptography based on Bell's theorem. <i>Physical Review A</i> , 2006 , 73,	2.6	11
85	Electronic structure of atoms in magnetic quadrupole traps. <i>Physical Review A</i> , 2004 , 69,	2.6	11
84	Nanofabricated atom optics: Atom chips. <i>Journal of Modern Optics</i> , 2000 , 47, 2789-2809	1.1	11
83	Extension of the Generalized Hydrodynamics to the Dimensional Crossover Regime. <i>Physical Review Letters</i> , 2021 , 126, 090602	7.4	11
82	Double light-cone dynamics establish thermal states in integrable 1D Bose gases. <i>New Journal of Physics</i> , 2018 , 20, 023034	2.9	11
81	Characterizing twin-particle entanglement in double-well potentials. <i>Physical Review A</i> , 2018 , 98,	2.6	11
80	Creation of macroscopic quantum superposition states by a measurement. <i>Europhysics Letters</i> , 2008 , 83, 60004	1.6	10
79	Designing potentials by sculpturing wires. <i>Physical Review A</i> , 2007 , 75,	2.6	10

78	Determining the electron forward-scattering amplitude using electron interferometry. <i>Physical Review A</i> , 1999 , 59, R942-R945	2.6	10
77	The electric polarizability of the neutron. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1989 , 284, 137-142	1.2	10
76	Euler-scale dynamical correlations in integrable systems with fluid motion. <i>SciPost Physics Core</i> , 2020 , 3,	3.9	10
75	Ergodic-Localized Junctions in a Periodically Driven Spin Chain. <i>Physical Review Letters</i> , 2020 , 125, 170503	3.4	10
74	Interferometric Unruh Detectors for Bose-Einstein Condensates. <i>Physical Review Letters</i> , 2020 , 125, 213603	3.0	10
73	Matter-wave recombiners for trapped Bose-Einstein condensates. <i>Physical Review A</i> , 2016 , 93,	2.6	9
72	Classical and quantum binding of a particle with arbitrary spin in the magnetic field of a current-carrying wire: a simple guide for atoms. <i>Quantum and Semiclassical Optics: Journal of the European Optical Society Part B</i> , 1996 , 8, 693-712		9
71	Cold atoms near surfaces: designing potentials by sculpturing wires. <i>Journal of Physics: Conference Series</i> , 2005 , 19, 30-33	0.3	9
70	Absorptive masks of light: A useful tool for spatial probing in atom optics. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1998 , 16, 3850		9
69	Particle with arbitrary spin in the magnetic field of a linear current. <i>Physical Review A</i> , 1996 , 54, R2525-R2528	2.8	9
68	High-fidelity spin measurement on the nitrogen-vacancy center. <i>New Journal of Physics</i> , 2017 , 19, 103002	2.9	8
67	Single spontaneous photon as a coherent beamsplitter for an atomic matter-wave. <i>Nature Physics</i> , 2011 , 7, 379-382	16.2	8
66	Restoring integrability in one-dimensional quantum gases by two-particle correlations. <i>Physical Review A</i> , 2009 , 79,	2.6	8
65	Detecting neutral atoms on an atom chip. <i>Fortschritte Der Physik</i> , 2006 , 54, 746-764	5.7	8
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