

# Peter Zoller

## List of Publications by Year in descending order

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612  
papers

80,868  
citations

336

137  
h-index

483

270  
g-index

636  
all docs

636  
docs citations

636  
times ranked

19994  
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing Many-Body Quantum Chaos with Quantum Simulators. Physical Review X, 2022, 12, .	8.9	20
2	Optimal metrology with programmable quantum sensors. Nature, 2022, 603, 604-609.	27.8	55
3	Symmetry-resolved dynamical purification in synthetic quantum matter. SciPost Physics, 2022, 12, .	4.9	47
4	Probing Infinite Many-Body Quantum Systems with Finite-Size Quantum Simulators. PRX Quantum, 2022, 3, .	9.2	3
5	Many-Body Chern Number from Statistical Correlations of Randomized Measurements. Physical Review Letters, 2021, 126, 050501.	7.8	36
6	Theoretical and Experimental Perspectives of Quantum Verification. PRX Quantum, 2021, 2, .	9.2	40
7	Entanglement Hamiltonian tomography in quantum simulation. Nature Physics, 2021, 17, 936-942.	16.7	51
8	Simulating 2D Effects in Lattice Gauge Theories on a Quantum Computer. PRX Quantum, 2021, 2, .	9.2	64
9	Symmetry-resolved entanglement detection using partial transpose moments. Npj Quantum Information, 2021, 7, .	6.7	81
10	Quantum Variational Learning of the Entanglement Hamiltonian. Physical Review Letters, 2021, 127, 170501.	7.8	24
11	Importance Sampling of Randomized Measurements for Probing Entanglement. Physical Review Letters, 2021, 127, 200503.	7.8	19
12	Quantum Chaos and Universal Trotterisation Performance Behaviours in Digital Quantum Simulation. , 2021, , .		1
13	Quantum Variational Optimization of Ramsey Interferometry and Atomic Clocks. Physical Review X, 2021, 11, .	8.9	30
14	Preparing Atomic Topological Quantum Matter by Adiabatic Nonunitary Dynamics. Physical Review Letters, 2020, 124, 010401.	7.8	10
15	Cross-Platform Verification of Intermediate Scale Quantum Devices. Physical Review Letters, 2020, 124, 010504.	7.8	78
16	Mixed-State Entanglement from Local Randomized Measurements. Physical Review Letters, 2020, 125, 200501.	7.8	136
17	Simulating lattice gauge theories within quantum technologies. European Physical Journal D, 2020, 74, 1.	1.3	272
18	Quantum many-body physics with ultracold polar molecules: Nanostructured potential barriers and interactions. Physical Review A, 2020, 102, .	2.5	7

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19	Quantum Information Scrambling in a Trapped-Ion Quantum Simulator with Tunable Range Interactions. <i>Physical Review Letters</i> , 2020, 124, 240505.	7.8	102
20	Emerging Two-Dimensional Gauge Theories in Rydberg Configurable Arrays. <i>Physical Review X</i> , 2020, 10, .	8.9	63
21	A unidirectional on-chip photonic interface for superconducting circuits. <i>Npj Quantum Information</i> , 2020, 6, .	6.7	42
22	Quantum non-demolition measurement of a many-body Hamiltonian. <i>Nature Communications</i> , 2020, 11, 775.	12.8	21
23	Many-body topological invariants from randomized measurements in synthetic quantum matter. <i>Science Advances</i> , 2020, 6, eaaz3666.	10.3	54
24	Quantum simulation of two-dimensional quantum chemistry in optical lattices. <i>Physical Review Research</i> , 2020, 2, .	3.6	9
25	Monitoring Quantum Simulators via Quantum Nondemolition Couplings to Atomic Clock Qubits. <i>PRX Quantum</i> , 2020, 1, .	9.2	18
26	Programmable Quantum Annealing Architectures with Ising Quantum Wires. <i>PRX Quantum</i> , 2020, 1, .	9.2	29
27	Scalable and Parallel Tweezer Gates for Quantum Computing with Long Ion Strings. <i>PRX Quantum</i> , 2020, 1, .	9.2	30
28	Probing Scrambling Using Statistical Correlations between Randomized Measurements. <i>Physical Review X</i> , 2019, 9, .	8.9	62
29	Quantum simulation and optimization in hot quantum networks. <i>Physical Review B</i> , 2019, 99, .	3.2	7
30	Analogue quantum chemistry simulation. <i>Nature</i> , 2019, 574, 215-218.	27.8	82
31	Stroboscopic painting of optical potentials for atoms with subwavelength resolution. <i>Physical Review A</i> , 2019, 100, .	2.5	13
32	Digital quantum simulation, Trotter errors, and quantum chaos of the kicked top. <i>Npj Quantum Information</i> , 2019, 5, .	6.7	69
33	Europe's Quantum Flagship initiative. <i>Quantum Science and Technology</i> , 2019, 4, 020501.	5.8	47
34	Self-verifying variational quantum simulation of lattice models. <i>Nature</i> , 2019, 569, 355-360.	27.8	387
35	Statistical correlations between locally randomized measurements: A toolbox for probing entanglement in many-body quantum states. <i>Physical Review A</i> , 2019, 99, .	2.5	89
36	Probing Rényi entanglement entropy via randomized measurements. <i>Science</i> , 2019, 364, 260-263.	12.6	375



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55	Universal photonic quantum computation via time-delayed feedback. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11362-11367.	7.1	117
56	Publisher's Note: Continuous measurement of an atomic current [Phys. Rev. A 95 , 043843 (2017)]. Physical Review A, 2017, 95, .	2.5	1
57	Probing topology by "heating": Quantized circular dichroism in ultracold atoms. Science Advances, 2017, 3, e1701207.	10.3	71
58	Coupled atomic wires in a synthetic magnetic field. Physical Review A, 2017, 95, .	2.5	19
59	Quantum Spin Lenses in Atomic Arrays. Physical Review X, 2017, 7, .	8.9	12
60	A coherent quantum annealer with Rydberg atoms. Nature Communications, 2017, 8, 15813.	12.8	64
61	Continuous measurement of an atomic current. Physical Review A, 2017, 95, .	2.5	17
62	Photonic band structure of two-dimensional atomic lattices. Physical Review A, 2017, 96, .	2.5	57
63	Dissipative quantum error correction and application to quantum sensing with trapped ions. Nature Communications, 2017, 8, 1822.	12.8	86
64	Majorana Quasiparticles Protected by Z2 Angular Momentum Conservation. Physical Review Letters, 2017, 118, 200404.	7.8	20
65	Topological Quantum Optics in Two-Dimensional Atomic Arrays. Physical Review Letters, 2017, 119, 023603.	7.8	145
66	U(1) Wilson lattice gauge theories in digital quantum simulators. New Journal of Physics, 2017, 19, 103020.	2.9	103
67	Delayed coherent quantum feedback from a scattering theory and a matrix product state perspective. Quantum Science and Technology, 2017, 2, 044012.	5.8	44
68	Robustness of digital quantum simulators against Trotter errors. , 2017, , .		0
69	A transmon quantum annealer: decomposing many-body Ising constraints into pair interactions. Quantum Science and Technology, 2016, 1, 015008.	5.8	48
70	Nanoscale "Dark State" Optical Potentials for Cold Atoms. Physical Review Letters, 2016, 117, 233001.	7.8	52
71	Non-equilibrium "Josephson effect in atomic Kitaev wires. Nature Communications, 2016, 7, 12280.	12.8	3
72	Extended Bose-Hubbard models with ultracold magnetic atoms. Science, 2016, 352, 201-205.	12.6	249



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91	Spatial Patterns in Rydberg Excitations from Logarithmic Pair Interactions. Physical Review Letters, 2015, 115, 125301.	7.8	4
92	Designing Frustrated Quantum Magnets with Laser-Dressed Rydberg Atoms. Physical Review Letters, 2015, 114, 173002.	7.8	150
93	Dynamical preparation of laser-excited anisotropic Rydberg crystals in 2D optical lattices. New Journal of Physics, 2015, 17, 013008.	2.9	16
94	Spontaneous Quantum Hall Effect in an Atomic Spinor Bose-Fermi Mixture. Physical Review Letters, 2015, 114, 125303.	7.8	9
95	Dissipative preparation of Chern insulators. Physical Review A, 2015, 91, .	2.5	85
96	Magic distances in the blockade mechanism of Rydberg $p$ and $d$ states. Physical Review A, 2015, 91, .	2.5	14
97	Quantum optics of chiral spin networks. Physical Review A, 2015, 91, .	2.5	220
98	Long distance coupling of a quantum mechanical oscillator to the internal states of an atomic ensemble. New Journal of Physics, 2015, 17, 043044.	2.9	26
99	Observation of chiral edge states with neutral fermions in synthetic Hall ribbons. Science, 2015, 349, 1510-1513.	12.6	551
100	The Quantum World of Ultra-Cold Atoms and Light Book II: The Physics of Quantum-Optical Devices. Cold Atoms, 2015, , 1-524.	0.3	2
101	Hexagonal plaquette spin $\pi$ -spin interactions and quantum magnetism in a two-dimensional ion crystal. New Journal of Physics, 2015, 17, 065018.	2.9	32
102	A quantum annealing architecture with all-to-all connectivity from local interactions. Science Advances, 2015, 1, e1500838.	10.3	162
103	Two-dimensional lattice gauge theories with superconducting quantum circuits. Annals of Physics, 2014, 351, 634-654.	2.8	93
104	Quantum Spin-Ice and Dimer Models with Rydberg Atoms. Physical Review X, 2014, 4, .	8.9	106
105	The Quantum World of Ultra-Cold Atoms and Light Book I: Foundations of Quantum Optics. Cold Atoms, 2014, , 1-311.	0.3	1
106	Search for localized Wannier functions of topological band structures via compressed sensing. Physical Review B, 2014, 90, .	3.2	14
107	Quantum Spin Dimers from Chiral Dissipation in Cold-Atom Chains. Physical Review Letters, 2014, 113, 237203.	7.8	143
108	Hybrid topological quantum computation with Majorana fermions: A cold-atom setup. Physical Review A, 2014, 89, .	2.5	18

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109	Publisher's Note: Hybrid topological quantum computation with Majorana fermions: A cold-atom setup [Phys. Rev. A, 022319 (2014)]. Physical Review A, 2014, 89, .	2.5	2
110	Constrained Dynamics via the Zeno Effect in Quantum Simulation: Implementing Non-Abelian Lattice Gauge Theories with Cold Atoms. Physical Review Letters, 2014, 112, 120406.	7.8	136
111	Tensor Networks for Lattice Gauge Theories and Atomic Quantum Simulation. Physical Review Letters, 2014, 112, .	7.8	116
112	Role of Quantum Fluctuations in the Hexatic Phase of Cold Polar Molecules. Physical Review Letters, 2014, 112, 255301.	7.8	12
113	Opto-nanomechanics strongly coupled to a Rydberg superatom: coherent versus incoherent dynamics. New Journal of Physics, 2014, 16, 063042.	2.9	37
114	Quasiparticle engineering and entanglement propagation in a quantum many-body system. Nature, 2014, 511, 202-205.	27.8	656
115	Spectroscopic observation of SU( $N$ )-symmetric interactions in Sr orbital magnetism. Science, 2014, 345, 1467-1473.	12.6	290
116	Superconducting Vortex Lattices for Ultracold Atoms. Physical Review Letters, 2013, 111, 145304.	7.8	69
117	From Classical to Quantum Glasses with Ultracold Polar Molecules. Physical Review Letters, 2013, 111, 185306.	7.8	37
118	Quantum simulation – an exciting adventure. Annalen Der Physik, 2013, 525, A153.	2.4	2
119	Direct imaging of topological edge states in cold-atom systems. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6736-6741.	7.1	153
120	Majorana Edge States in Atomic Wires Coupled by Pair Hopping. Physical Review Letters, 2013, 111, 173004.	7.8	75
121	Heating dynamics of bosonic atoms in a noisy optical lattice. Physical Review A, 2013, 87, .	2.5	38
122	Cavity-enhanced long-distance coupling of an atomic ensemble to a micromechanical membrane. Physical Review A, 2013, 87, .	2.5	60
123	Single-photon nonlinearities in two-mode optomechanics. Physical Review A, 2013, 87, .	2.5	146
124	Topologically protected quantum state transfer in a chiral spin liquid. Nature Communications, 2013, 4, 1585.	12.8	67
125	Cavity Optomechanics of Levitated Nanodumbbells: Nonequilibrium Phases and Self-Assembly. Physical Review Letters, 2013, 110, 143604.	7.8	33
126	Phonon-Induced Spin-Spin Interactions in Diamond Nanostructures: Application to Spin Squeezing. Physical Review Letters, 2013, 110, 156402.	7.8	226

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127	Resonances in dissipative optomechanics with nanoparticles: Sorting, speed rectification, and transverse cooling. <i>Physical Review A</i> , 2013, 87, .	2.5	12
128	Quantum simulation of dynamical maps with trapped ions. <i>Nature Physics</i> , 2013, 9, 361-367.	16.7	175
129	Nonlinear Quantum Optomechanics via Individual Intrinsic Two-Level Defects. <i>Physical Review Letters</i> , 2013, 110, 193602.	7.8	130
130	Atomic Quantum Simulation of $\langle \mathbf{U} \rangle$ stretchy="false">(</mml:mo> <mml:mi>N</mml:mi> <mml:mo> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (stretchy="false">)</mml:m	7.8	217
131	Quantum Simulation of a Lattice Schwinger Model in a Chain of Trapped Ions. <i>Physical Review X</i> , 2013, 3, .	8.9	109
132	Thermal versus entanglement entropy: a measurement protocol for fermionic atoms with a quantum gas microscope. <i>New Journal of Physics</i> , 2013, 15, 063003.	2.9	50
133	Patientâ€™ doctor agreement on recall of clinical trial discussion across cultures. <i>Annals of Oncology</i> , 2013, 24, 391-397.	1.2	1
134	Braiding of Atomic Majorana Fermions in Wire Networks and Implementation of the Deutsch-Jozsa Algorithm. <i>Physical Review Letters</i> , 2013, 111, 203001.	7.8	42
135	Topology by dissipation. <i>New Journal of Physics</i> , 2013, 15, 085001.	2.9	210
136	Superconducting Circuits for Quantum Simulation of Dynamical Gauge Fields. <i>Physical Review Letters</i> , 2013, 111, 110504.	7.8	93
137	Digital and open system quantum simulation with trapped ions. , 2013, , 109-121.		0
138	Continuous mode cooling and phonon routers for phononic quantum networks. <i>New Journal of Physics</i> , 2012, 14, 115004.	2.9	143
139	Noise- and disorder-resilient optical lattices. <i>Physical Review A</i> , 2012, 86, .	2.5	14
140	Optomechanical Quantum Information Processing with Photons and Phonons. <i>Physical Review Letters</i> , 2012, 109, 013603.	7.8	374
141	Majorana Modes in Driven-Dissipative Atomic Superfluids with a Zero Chern Number. <i>Physical Review Letters</i> , 2012, 109, 130402.	7.8	65
142	Driven-dissipative preparation of entangled states in cascaded quantum-optical networks. <i>New Journal of Physics</i> , 2012, 14, 063014.	2.9	147
143	Driven-dissipative dynamics of a strongly interacting Rydberg gas. <i>Physical Review A</i> , 2012, 86, .	2.5	43
144	Topological Flat Bands from Dipolar Spin Systems. <i>Physical Review Letters</i> , 2012, 109, 266804.	7.8	96

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145	Atomic Rydberg Reservoirs for Polar Molecules. <i>Physical Review Letters</i> , 2012, 108, 193007.	7.8	29
146	Nanoplasmonic Lattices for Ultracold Atoms. <i>Physical Review Letters</i> , 2012, 109, 235309.	7.8	108
147	Condensed Matter Theory of Dipolar Quantum Gases. <i>Chemical Reviews</i> , 2012, 112, 5012-5061.	47.7	567
148	Reservoir engineering and dynamical phase transitions in optomechanical arrays. <i>Physical Review A</i> , 2012, 86, .	2.5	81
149	Atomic Quantum Simulation of Dynamical Gauge Fields Coupled to Fermionic Matter: From String Breaking to Evolution after a Quench. <i>Physical Review Letters</i> , 2012, 109, 175302.	7.8	241
150	Engineered Open Systems and Quantum Simulations with Atoms and Ions. <i>Advances in Atomic, Molecular and Optical Physics</i> , 2012, , 1-80.	2.3	219
151	Driven-dissipative many-body pairing states for cold fermionic atoms in an optical lattice. <i>New Journal of Physics</i> , 2012, 14, 055002.	2.9	31
152	Preparing and probing atomic Majorana fermions and topological order in optical lattices. <i>New Journal of Physics</i> , 2012, 14, 113036.	2.9	45
153	Ultracold Atoms and Molecules in Optical Lattices. <i>Contemporary Concepts of Condensed Matter Science</i> , 2012, 5, 121-156.	0.5	1
154	Goals and opportunities in quantum simulation. <i>Nature Physics</i> , 2012, 8, 264-266.	16.7	639
155	Measuring Entanglement Growth in Quench Dynamics of Bosons in an Optical Lattice. <i>Physical Review Letters</i> , 2012, 109, 020505.	7.8	303
156	Majorana Fermions in Equilibrium and in Driven Cold-Atom Quantum Wires. <i>Physical Review Letters</i> , 2011, 106, 220402.	7.8	606
157	Topology by dissipation in atomic quantum wires. <i>Nature Physics</i> , 2011, 7, 971-977.	16.7	396
158	An open-system quantum simulator with trapped ions. <i>Nature</i> , 2011, 470, 486-491.	27.8	823
159	State-dependent lattices for quantum computing with alkaline-earth-metal atoms. <i>European Physical Journal D</i> , 2011, 65, 207-217.	1.3	23
160	Universal Digital Quantum Simulation with Trapped Ions. <i>Science</i> , 2011, 334, 57-61.	12.6	483
161	Quantum information processing in self-assembled crystals of cold polar molecules. <i>Quantum Information Processing</i> , 2011, 10, 793-819.	2.2	10
162	Prospects of quantum information processing with atoms. <i>Quantum Information Processing</i> , 2011, 10, 1061-1063.	2.2	1

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163	Rydberg excitation of trapped cold ions: a detailed case study. <i>New Journal of Physics</i> , 2011, 13, 075014.	2.9	37
164	Trimer Liquids and Crystals of Polar Molecules in Coupled Wires. <i>Physical Review Letters</i> , 2011, 107, 163202.	7.8	33
165	Spatial Pauli blocking of spontaneous emission in optical lattices. <i>Physical Review A</i> , 2011, 84, .	2.5	20
166	Optomechanical transducers for quantum-information processing. <i>Physical Review A</i> , 2011, 84, .	2.5	119
167	Ion-assisted ground-state cooling of a trapped polar molecule. <i>Physical Review A</i> , 2011, 83, .	2.5	10
168	Atomic matter-wave revivals with definite atom number in an optical lattice. <i>Physical Review A</i> , 2011, 83, .	2.5	21
169	Bilayer superfluidity of fermionic polar molecules: Many-body effects. <i>Physical Review A</i> , 2011, 83, .	2.5	73
170	Nonequilibrium phase diagram of a driven and dissipative many-body system. <i>Physical Review A</i> , 2011, 83, .	2.5	80
171	Quantum simulations with cold atoms, molecules and ions. , 2011, , .		0
172	Simulating open quantum systems: from many-body interactions to stabilizer pumping. <i>New Journal of Physics</i> , 2011, 13, 085007.	2.9	89
173	Single-atom cavity QED and optomechanics. <i>Physical Review A</i> , 2010, 81, .	2.5	101
174	Quantum field theory for the three-body constrained lattice Bose gas. I. Formal developments. <i>Physical Review B</i> , 2010, 82, .	3.2	28
175	Quantum field theory for the three-body constrained lattice Bose gas. II. Application to the many-body problem. <i>Physical Review B</i> , 2010, 82, .	3.2	29
176	Optomechanical Transducers for Long-Distance Quantum Communication. <i>Physical Review Letters</i> , 2010, 105, 220501.	7.8	391
177	A single trapped atom in front of an oscillating mirror. <i>Optics Communications</i> , 2010, 283, 758-765.	2.1	36
178	Two-orbital $SU(N)$ magnetism with ultracold alkaline-earth atoms. <i>Nature Physics</i> , 2010, 6, 289-295.	16.7	572
179	A Rydberg quantum simulator. <i>Nature Physics</i> , 2010, 6, 382-388.	16.7	644
180	A quantum spin transducer based on nanoelectromechanical resonator arrays. <i>Nature Physics</i> , 2010, 6, 602-608.	16.7	346

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181	Systems of Ultra-Cold Atoms, and Advanced Computational Methods. , 2010, , .		0
182	Universal Rates for Reactive Ultracold Polar Molecules in Reduced Dimensions. Physical Review Letters, 2010, 105, 073202.	7.8	79
183	$\hat{\rho}$ -Condensate of Fermionic Atom Pairs via Adiabatic State Preparation. Physical Review Letters, 2010, 104, 240406.	7.8	18
184	Nonequilibrium dynamics of bosonic atoms in optical lattices: Decoherence of many-body states due to spontaneous emission. Physical Review A, 2010, 82, .	2.5	136
185	Optical lattices with micromechanical mirrors. Physical Review A, 2010, 82, .	2.5	57
186	Observability of Quantum Criticality and a Continuous Supersolid in Atomic Gases. Physical Review Letters, 2010, 104, 165301.	7.8	49
187	Dynamical Phase Transitions and Instabilities in Open Atomic Many-Body Systems. Physical Review Letters, 2010, 105, 015702.	7.8	260
188	Quantum Phases of Cold Polar Molecules in 2D Optical Lattices. Physical Review Letters, 2010, 104, 125301.	7.8	247
189	Cavity opto-mechanics using an optically levitated nanosphere. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1005-1010.	7.1	493
190	One-Dimensional Quantum Liquids with Power-Law Interactions: The Luttinger Staircase. Physical Review Letters, 2010, 105, 140401.	7.8	57
191	Supersolid Droplet Crystal in a Dipole-Blockaded Gas. Physical Review Letters, 2010, 105, 135301.	7.8	206
192	Strongly Correlated Gases of Rydberg-Dressed Atoms: Quantum and Classical Dynamics. Physical Review Letters, 2010, 104, 223002.	7.8	267
193	Dissipation-Induced $d$ -Wave Pairing of Fermionic Atoms in an Optical Lattice. Physical Review Letters, 2010, 105, 227001.	7.8	62
194	Efficient quantum repeater based on deterministic Rydberg gates. Physical Review A, 2010, 81, .	2.5	71
195	Strong Coupling of a Mechanical Oscillator and a Single Atom. Physical Review Letters, 2009, 103, 063005.	7.8	192
196	Alkaline-Earth-Metal Atoms as Few-Qubit Quantum Registers. Physical Review Letters, 2009, 102, 110503.	7.8	135
197	Phase diagram of one-dimensional hard-core bosons with three-body interactions. Physical Review B, 2009, 79, .	3.2	40
198	Stabilization of the $p$ -Wave Superfluid State in an Optical Lattice. Physical Review Letters, 2009, 103, 070404.	7.8	45

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199	Trap-assisted creation of giant molecules and Rydberg-mediated coherent charge transfer in a Penning trap. <i>Physical Review A</i> , 2009, 79, .	2.5	4
200	Atomic Color Superfluid via Three-Body Loss. <i>Physical Review Letters</i> , 2009, 103, 240401.	7.8	55
201	Dipole oscillations of confined lattice bosons in one dimension. <i>Physical Review A</i> , 2009, 79, .	2.5	20
202	Atomic Three-Body Loss as a Dynamical Three-Body Interaction. <i>Physical Review Letters</i> , 2009, 102, 040402.	7.8	200
203	Quantum simulations of extended Hubbard models with dipolar crystals. <i>New Journal of Physics</i> , 2009, 11, 055045.	2.9	47
204	Establishing Einstein-Poldosky-Rosen Channels between Nanomechanics and Atomic Ensembles. <i>Physical Review Letters</i> , 2009, 102, 020501.	7.8	155
205	Cavity-assisted squeezing of a mechanical oscillator. <i>Physical Review A</i> , 2009, 79, .	2.5	178
206	Hybrid quantum devices and quantum engineering. <i>Physica Scripta</i> , 2009, T137, 014001.	2.5	243
207	Mesoscopic Rydberg Gate Based on Electromagnetically Induced Transparency. <i>Physical Review Letters</i> , 2009, 102, 170502.	7.8	251
208	Trapping and Manipulation of Isolated Atoms Using Nanoscale Plasmonic Structures. <i>Physical Review Letters</i> , 2009, 103, 123004.	7.8	96
209	Condensed Matter Physics with Cold Polar Molecules. , 2009, , .		1
210	Quantum states and phases in driven open quantum systems with cold atoms. <i>Nature Physics</i> , 2008, 4, 878-883.	16.7	911
211	Quantum leaps in small steps. <i>Nature Physics</i> , 2008, 4, 2-3.	16.7	7
212	Anyonic interferometry and protected memories in atomic spin lattices. <i>Nature Physics</i> , 2008, 4, 482-488.	16.7	97
213	Preparation of entangled states by quantum Markov processes. <i>Physical Review A</i> , 2008, 78, .	2.5	540
214	Coherent Quantum Optical Control with Subwavelength Resolution. <i>Physical Review Letters</i> , 2008, 100, 093005.	7.8	135
215	Trapped Rydberg ions: from spin chains to fast quantum gates. <i>New Journal of Physics</i> , 2008, 10, 093009.	2.9	81
216	State-dependent, addressable subwavelength lattices with cold atoms. <i>New Journal of Physics</i> , 2008, 10, 073015.	2.9	65

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217	Theory of cavity-assisted microwave cooling of polar molecules. <i>New Journal of Physics</i> , 2008, 10, 063005.	2.9	12
218	Physical replicas and the Bose glass in cold atomic gases. <i>New Journal of Physics</i> , 2008, 10, 073032.	2.9	20
219	Suppression of Inelastic Collisions Between Polar Molecules With a Repulsive Shield. <i>Physical Review Letters</i> , 2008, 101, 073201.	7.8	84
220	Andreev-Like Reflections with Cold Atoms. <i>Physical Review Letters</i> , 2008, 100, 110404.	7.8	21
221	Cold Atoms and Molecules in Self-Assembled Dipolar Lattices. <i>Physical Review Letters</i> , 2008, 100, 050402.	7.8	90
222	Quantum Computing with Alkaline-Earth-Metal Atoms. <i>Physical Review Letters</i> , 2008, 101, 170504.	7.8	218
223	Polar Molecules and Circuit QED: Towards Hybrid Quantum Computing. , 2008, , .		0
224	Dissipative dynamics of atomic Hubbard models coupled to a phonon bath: dark state cooling of atoms within a Bloch band of an optical lattice. <i>New Journal of Physics</i> , 2007, 9, 44-44.	2.9	29
225	Atomic lattice excitons: from condensates to crystals. <i>New Journal of Physics</i> , 2007, 9, 407-407.	2.9	10
226	Designing spin-1 lattice models using polar molecules. <i>New Journal of Physics</i> , 2007, 9, 138-138.	2.9	50
227	Controlled collisions of a single atom and an ion guided by movable trapping potentials. <i>Physical Review A</i> , 2007, 76, .	2.5	68
228	Strongly Correlated 2D Quantum Phases with Cold Polar Molecules: Controlling the Shape of the Interaction Potential. <i>Physical Review Letters</i> , 2007, 98, 060404.	7.8	429
229	Quantum Computation using Vortices and Majorana Zero Modes of $apx+ipy$ Superfluid of Fermionic Cold Atoms. <i>Physical Review Letters</i> , 2007, 98, 010506.	7.8	244
230	Cold polar molecules in two-dimensional traps: Tailoring interactions with external fields for novel quantum phases. <i>Physical Review A</i> , 2007, 76, .	2.5	182
231	Molecular dipolar crystals as high-fidelity quantum memory for hybrid quantum computing. <i>Physical Review A</i> , 2007, 76, .	2.5	81
232	Three-body interactions with cold polar molecules. <i>Nature Physics</i> , 2007, 3, 726-731.	16.7	234
233	Dark-State Cooling of Atoms by Superfluid Immersion. <i>Physical Review Letters</i> , 2006, 97, 220403.	7.8	68
234	Hybrid Quantum Processors: Molecular Ensembles as Quantum Memory for Solid State Circuits. <i>Physical Review Letters</i> , 2006, 97, 033003.	7.8	348

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235	Single-atom mirror for one-dimensional atomic lattice gases. <i>Physical Review A</i> , 2006, 73, .	2.5	12
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