

Peter Zoller

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

591 papers	66,082 citations	128 h-index	244 g-index
636 ext. papers	74,783 ext. citations	6.5 avg, IF	7.94 L-index

#	Paper	IF	Citations
591	Optimal metrology with programmable quantum sensors.. <i>Nature</i> , 2022 , 603, 604-609	50.4	3
590	Symmetry-resolved dynamical purification in synthetic quantum matter. <i>SciPost Physics</i> , 2022 , 12,	6.1	1
589	Quantum Variational Optimization of Ramsey Interferometry and Atomic Clocks. <i>Physical Review X</i> , 2021 , 11,	9.1	3
588	Quantum Variational Learning of the Entanglement Hamiltonian. <i>Physical Review Letters</i> , 2021 , 127, 170501	7.4	4
587	Importance Sampling of Randomized Measurements for Probing Entanglement. <i>Physical Review Letters</i> , 2021 , 127, 200503	7.4	2
586	Symmetry-resolved entanglement detection using partial transpose moments. <i>Npj Quantum Information</i> , 2021 , 7,	8.6	9
585	Theoretical and Experimental Perspectives of Quantum Verification. <i>PRX Quantum</i> , 2021 , 2,	6.1	3
584	Entanglement Hamiltonian tomography in quantum simulation. <i>Nature Physics</i> , 2021 , 17, 936-942	16.2	6
583	Many-Body Chern Number from Statistical Correlations of Randomized Measurements. <i>Physical Review Letters</i> , 2021 , 126, 050501	7.4	12
582	Simulating 2D Effects in Lattice Gauge Theories on a Quantum Computer. <i>PRX Quantum</i> , 2021 , 2,	6.1	13
581	Quantum Information Scrambling in a Trapped-Ion Quantum Simulator with Tunable Range Interactions. <i>Physical Review Letters</i> , 2020 , 124, 240505	7.4	39
580	Emerging Two-Dimensional Gauge Theories in Rydberg Configurable Arrays. <i>Physical Review X</i> , 2020 , 10,	9.1	29
579	A unidirectional on-chip photonic interface for superconducting circuits. <i>Npj Quantum Information</i> , 2020 , 6,	8.6	13
578	Quantum non-demolition measurement of a many-body Hamiltonian. <i>Nature Communications</i> , 2020 , 11, 775	17.4	13
577	Many-body topological invariants from randomized measurements in synthetic quantum matter. <i>Science Advances</i> , 2020 , 6, eaaz3666	14.3	20
576	Quantum simulation of two-dimensional quantum chemistry in optical lattices. <i>Physical Review Research</i> , 2020 , 2,	3.9	1
575	Monitoring Quantum Simulators via Quantum Nondemolition Couplings to Atomic Clock Qubits. <i>PRX Quantum</i> , 2020 , 1,	6.1	4

574	Programmable Quantum Annealing Architectures with Ising Quantum Wires. <i>PRX Quantum</i> , 2020 , 1,	6.1	7
573	Scalable and Parallel Tweezer Gates for Quantum Computing with Long Ion Strings. <i>PRX Quantum</i> , 2020 , 1,	6.1	12
572	Preparing Atomic Topological Quantum Matter by Adiabatic Nonunitary Dynamics. <i>Physical Review Letters</i> , 2020 , 124, 010401	7.4	2
571	Cross-Platform Verification of Intermediate Scale Quantum Devices. <i>Physical Review Letters</i> , 2020 , 124, 010504	7.4	30
570	Mixed-State Entanglement from Local Randomized Measurements. <i>Physical Review Letters</i> , 2020 , 125, 200501	7.4	41
569	Simulating lattice gauge theories within quantum technologies. <i>European Physical Journal D</i> , 2020 , 74, 1	1.3	84
568	Quantum many-body physics with ultracold polar molecules: Nanostructured potential barriers and interactions. <i>Physical Review A</i> , 2020 , 102,	2.6	2
567	Stroboscopic painting of optical potentials for atoms with subwavelength resolution. <i>Physical Review A</i> , 2019 , 100,	2.6	8
566	Digital quantum simulation, Trotter errors, and quantum chaos of the kicked top. <i>Npj Quantum Information</i> , 2019 , 5,	8.6	31
565	Europe's Quantum Flagship initiative. <i>Quantum Science and Technology</i> , 2019 , 4, 020501	5.5	20
564	Self-verifying variational quantum simulation of lattice models. <i>Nature</i> , 2019 , 569, 355-360	50.4	204
563	Statistical correlations between locally randomized measurements: A toolbox for probing entanglement in many-body quantum states. <i>Physical Review A</i> , 2019 , 99,	2.6	42
562	Probing Rényi entanglement entropy via randomized measurements. <i>Science</i> , 2019 , 364, 260-263	33.3	172
561	Subradiant Bell States in Distant Atomic Arrays. <i>Physical Review Letters</i> , 2019 , 122, 093601	7.4	51
560	Quantum localization bounds Trotter errors in digital quantum simulation. <i>Science Advances</i> , 2019 , 5, eaau8342	14.3	36
559	Quantum Kibble-Zurek mechanism and critical dynamics on a programmable Rydberg simulator. <i>Nature</i> , 2019 , 568, 207-211	50.4	144
558	Probing Scrambling Using Statistical Correlations between Randomized Measurements. <i>Physical Review X</i> , 2019 , 9,	9.1	26
557	Quantum simulation and optimization in hot quantum networks. <i>Physical Review B</i> , 2019 , 99,	3.3	2

556	Analogue quantum chemistry simulation. <i>Nature</i> , 2019 , 574, 215-218	50.4	40
555	Variational Spin-Squeezing Algorithms on Programmable Quantum Sensors. <i>Physical Review Letters</i> , 2019 , 123, 260505	7.4	29
554	Nondestructive Cooling of an Atomic Quantum Register via State-Insensitive Rydberg Interactions. <i>Physical Review Letters</i> , 2019 , 123, 213603	7.4	9
553	Dark State Optical Lattice with a Subwavelength Spatial Structure. <i>Physical Review Letters</i> , 2018 , 120, 083601	7.4	37
552	SO(3) Nuclear Physics with ultracold Gases. <i>Annals of Physics</i> , 2018 , 393, 466-483	2.5	15
551	Unitary n-designs via random quenches in atomic Hubbard and spin models: Application to the measurement of Rényi entropies. <i>Physical Review A</i> , 2018 , 97,	2.6	38
550	Rényi Entropies from Random Quenches in Atomic Hubbard and Spin Models. <i>Physical Review Letters</i> , 2018 , 120, 050406	7.4	89
549	Theory of a Quantum Scanning Microscope for Cold Atoms. <i>Physical Review Letters</i> , 2018 , 120, 133601	7.4	20
548	Quantum scanning microscope for cold atoms. <i>Physical Review A</i> , 2018 , 98,	2.6	8
547	Majorana quasiparticles in ultracold one-dimensional gases 2018 , 97-113		
546	Free-space photonic quantum link and chiral quantum optics. <i>Physical Review A</i> , 2018 , 98,	2.6	34
545	Quantum simulation and spectroscopy of entanglement Hamiltonians. <i>Nature Physics</i> , 2018 , 14, 827-831	16.2	49
544	Chiral quantum optics. <i>Nature</i> , 2017 , 541, 473-480	50.4	595
543	Helical Floquet Channels in 1D Lattices. <i>Physical Review Letters</i> , 2017 , 118, 105302	7.4	19
542	Quantum State Transfer via Noisy Photonic and Phononic Waveguides. <i>Physical Review Letters</i> , 2017 , 118, 133601	7.4	65
541	Robust quantum state transfer via topologically protected edge channels in dipolar arrays. <i>Quantum Science and Technology</i> , 2017 , 2, 015001	5.5	26
540	Universal photonic quantum computation via time-delayed feedback. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 11362-11367	11.5	64
539	Probing topology by "heating": Quantized circular dichroism in ultracold atoms. <i>Science Advances</i> , 2017 , 3, e1701207	14.3	47

538	Coupled atomic wires in a synthetic magnetic field. <i>Physical Review A</i> , 2017 , 95,	2.6	11
537	Quantum Spin Lenses in Atomic Arrays. <i>Physical Review X</i> , 2017 , 7,	9.1	12
536	A coherent quantum annealer with Rydberg atoms. <i>Nature Communications</i> , 2017 , 8, 15813	17.4	50
535	Continuous measurement of an atomic current. <i>Physical Review A</i> , 2017 , 95,	2.6	13
534	Photonic band structure of two-dimensional atomic lattices. <i>Physical Review A</i> , 2017 , 96,	2.6	35
533	Dissipative quantum error correction and application to quantum sensing with trapped ions. <i>Nature Communications</i> , 2017 , 8, 1822	17.4	51
532	Majorana Quasiparticles Protected by Z_2 Angular Momentum Conservation. <i>Physical Review Letters</i> , 2017 , 118, 200404	7.4	14
531	Topological Quantum Optics in Two-Dimensional Atomic Arrays. <i>Physical Review Letters</i> , 2017 , 119, 023604	9.1	96
530	U(1) Wilson lattice gauge theories in digital quantum simulators. <i>New Journal of Physics</i> , 2017 , 19, 103020	2.9	49
529	Delayed coherent quantum feedback from a scattering theory and a matrix product state perspective. <i>Quantum Science and Technology</i> , 2017 , 2, 044012	5.5	29
528	Chiral quantum optics with V-level atoms and coherent quantum feedback. <i>Physical Review A</i> , 2016 , 94,	2.6	32
527	Quantum Hall physics with cold atoms in cylindrical optical lattices. <i>Physical Review A</i> , 2016 , 93,	2.6	49
526	Non-Markovian dynamics in chiral quantum networks with spins and photons. <i>Physical Review A</i> , 2016 , 93,	2.6	57
525	Implementation of chiral quantum optics with Rydberg and trapped-ion setups. <i>Physical Review A</i> , 2016 , 93,	2.6	26
524	Real-Time Dynamics in U(1) Lattice Gauge Theories with Tensor Networks. <i>Physical Review X</i> , 2016 , 6,	9.1	71
523	Photonic Circuits with Time Delays and Quantum Feedback. <i>Physical Review Letters</i> , 2016 , 116, 093601	7.4	104
522	Analog quantum simulation of (1+1)-dimensional lattice QED with trapped ions. <i>Physical Review A</i> , 2016 , 94,	2.6	27
521	Measurement Protocol for the Entanglement Spectrum of Cold Atoms. <i>Physical Review X</i> , 2016 , 6,	9.1	54

520	Real-time dynamics of lattice gauge theories with a few-qubit quantum computer. <i>Nature</i> , 2016 , 534, 516-9	50.4	310
519	CP(N \times N) quantum field theories with alkaline-earth atoms in optical lattices. <i>Annals of Physics</i> , 2016 , 370, 117-127	2.5	18
518	Topological quantum matter with ultracold gases in optical lattices. <i>Nature Physics</i> , 2016 , 12, 639-645	16.2	364
517	Measuring multipartite entanglement through dynamic susceptibilities. <i>Nature Physics</i> , 2016 , 12, 778-782	26.2	129
516	Quantum Repeater 2016 , 691-700		
515	Quantum Computing with Cold Ions and Atoms: Theory 2016 , 483-517		
514	A transmon quantum annealer: decomposing many-body Ising constraints into pair interactions. <i>Quantum Science and Technology</i> , 2016 , 1, 015008	5.5	39
513	Nanoscale "Dark State" Optical Potentials for Cold Atoms. <i>Physical Review Letters</i> , 2016 , 117, 233001	7.4	31
512	Non-equilibrium 8 π Josephson effect in atomic Kitaev wires. <i>Nature Communications</i> , 2016 , 7, 12280	17.4	2
511	Extended Bose-Hubbard models with ultracold magnetic atoms. <i>Science</i> , 2016 , 352, 201-5	33.3	171
510	Quantum technology: from research to application. <i>Applied Physics B: Lasers and Optics</i> , 2016 , 122, 1	1.9	21
509	Dynamical Buildup of a Quantized Hall Response from Nontopological States. <i>Physical Review Letters</i> , 2016 , 117, 126803	7.4	69
508	Spontaneous quantum Hall effect in an atomic spinor Bose-Fermi mixture. <i>Physical Review Letters</i> , 2015 , 114, 125303	7.4	5
507	Dissipative preparation of Chern insulators. <i>Physical Review A</i> , 2015 , 91,	2.6	59
506	Magic distances in the blockade mechanism of Rydberg p and d states. <i>Physical Review A</i> , 2015 , 91,	2.6	13
505	Quantum optics of chiral spin networks. <i>Physical Review A</i> , 2015 , 91,	2.6	140
504	Long distance coupling of a quantum mechanical oscillator to the internal states of an atomic ensemble. <i>New Journal of Physics</i> , 2015 , 17, 043044	2.9	23
503	Observation of chiral edge states with neutral fermions in synthetic Hall ribbons. <i>Science</i> , 2015 , 349, 1510-3	33.3	410

502	The Quantum World of Ultra-Cold Atoms and Light Book II: The Physics of Quantum-Optical Devices. <i>Cold Atoms</i> , 2015 , 1-524		2
501	Hexagonal plaquette spin-spin interactions and quantum magnetism in a two-dimensional ion crystal. <i>New Journal of Physics</i> , 2015 , 17, 065018	2.9	23
500	A quantum annealing architecture with all-to-all connectivity from local interactions. <i>Science Advances</i> , 2015 , 1, e1500838	14.3	105
499	Can consultation skills training change doctors' behaviour to increase involvement of patients in making decisions about standard treatment and clinical trials: a randomized controlled trial. <i>Health Expectations</i> , 2015 , 18, 2570-83	3.7	24
498	Majorana fermions in noisy Kitaev wires. <i>Physical Review B</i> , 2015 , 92,	3.3	27
497	Realizing dipolar spin models with arrays of superconducting qubits. <i>Physical Review B</i> , 2015 , 92,	3.3	23
496	Synthetic helical liquids with ultracold atoms in optical lattices. <i>Physical Review B</i> , 2015 , 92,	3.3	9
495	Spatial Patterns in Rydberg Excitations from Logarithmic Pair Interactions. <i>Physical Review Letters</i> , 2015 , 115, 125301	7.4	4
494	Designing frustrated quantum magnets with laser-dressed Rydberg atoms. <i>Physical Review Letters</i> , 2015 , 114, 173002	7.4	118
493	Dynamical preparation of laser-excited anisotropic Rydberg crystals in 2D optical lattices. <i>New Journal of Physics</i> , 2015 , 17, 013008	2.9	15
492	The Quantum World of Ultra-Cold Atoms and Light Book II: The Physics of Quantum-Optical Devices. <i>Cold Atoms</i> , 2015 ,		28
491	Opto-nanomechanics strongly coupled to a Rydberg superatom: coherent versus incoherent dynamics. <i>New Journal of Physics</i> , 2014 , 16, 063042	2.9	35
490	Quasiparticle engineering and entanglement propagation in a quantum many-body system. <i>Nature</i> , 2014 , 511, 202-5	50.4	487
489	Quantum simulation. Spectroscopic observation of SU(N)-symmetric interactions in Sr orbital magnetism. <i>Science</i> , 2014 , 345, 1467-73	33.3	229
488	Two-dimensional lattice gauge theories with superconducting quantum circuits. <i>Annals of Physics</i> , 2014 , 351, 634-654	2.5	68
487	Quantum Spin-Ice and Dimer Models with Rydberg Atoms. <i>Physical Review X</i> , 2014 , 4,	9.1	76
486	The Quantum World of Ultra-Cold Atoms and Light Book I: Foundations of Quantum Optics. <i>Cold Atoms</i> , 2014 , 1-311		1
485	Search for localized Wannier functions of topological band structures via compressed sensing. <i>Physical Review B</i> , 2014 , 90,	3.3	13

484	Quantum spin dimers from chiral dissipation in cold-atom chains. <i>Physical Review Letters</i> , 2014 , 113, 237203	7.4	100
483	Hybrid topological quantum computation with Majorana fermions: A cold-atom setup. <i>Physical Review A</i> , 2014 , 89,	2.6	14
482	Constrained dynamics via the Zeno effect in quantum simulation: implementing non-Abelian lattice gauge theories with cold atoms. <i>Physical Review Letters</i> , 2014 , 112, 120406	7.4	101
481	Tensor Networks for Lattice Gauge Theories and Atomic Quantum Simulation. <i>Physical Review Letters</i> , 2014 , 112,	7.4	88
480	Role of quantum fluctuations in the hexatic phase of cold polar molecules. <i>Physical Review Letters</i> , 2014 , 112, 255301	7.4	9
479	The Quantum World of Ultra-Cold Atoms and Light Book I: Foundations of Quantum Optics. <i>Cold Atoms</i> , 2014 ,		22
478	Superconducting vortex lattices for ultracold atoms. <i>Physical Review Letters</i> , 2013 , 111, 145304	7.4	63
477	From classical to quantum glasses with ultracold polar molecules. <i>Physical Review Letters</i> , 2013 , 111, 185306	7.4	27
476	Direct imaging of topological edge states in cold-atom systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 6736-41	11.5	125
475	Majorana edge States in atomic wires coupled by pair hopping. <i>Physical Review Letters</i> , 2013 , 111, 173004	7.4	54
474	Heating dynamics of bosonic atoms in a noisy optical lattice. <i>Physical Review A</i> , 2013 , 87,	2.6	25
473	Cavity-enhanced long-distance coupling of an atomic ensemble to a micromechanical membrane. <i>Physical Review A</i> , 2013 , 87,	2.6	53
472	Single-photon nonlinearities in two-mode optomechanics. <i>Physical Review A</i> , 2013 , 87,	2.6	120
471	Topologically protected quantum state transfer in a chiral spin liquid. <i>Nature Communications</i> , 2013 , 4, 1585	17.4	38
470	Cavity optomechanics of levitated nanodumbbells: nonequilibrium phases and self-assembly. <i>Physical Review Letters</i> , 2013 , 110, 143604	7.4	26
469	Phonon-induced spin-spin interactions in diamond nanostructures: application to spin squeezing. <i>Physical Review Letters</i> , 2013 , 110, 156402	7.4	176
468	Resonances in dissipative optomechanics with nanoparticles: Sorting, speed rectification, and transverse cooling. <i>Physical Review A</i> , 2013 , 87,	2.6	12
467	Quantum simulation of dynamical maps with trapped ions. <i>Nature Physics</i> , 2013 , 9, 361-367	16.2	144

466	Nonlinear quantum optomechanics via individual intrinsic two-level defects. <i>Physical Review Letters</i> , 2013 , 110, 193602	7.4	103
465	Atomic quantum simulation of U(N) and SU(N) non-Abelian lattice gauge theories. <i>Physical Review Letters</i> , 2013 , 110, 125303	7.4	159
464	Quantum Simulation of a Lattice Schwinger Model in a Chain of Trapped Ions. <i>Physical Review X</i> , 2013 , 3,	9.1	67
463	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	40
462	Patient-doctor agreement on recall of clinical trial discussion across cultures. <i>Annals of Oncology</i> , 2013 , 24, 391-397	10.3	1
461	Braiding of atomic majorana fermions in wire networks and implementation of the Deutsch-Jozsa algorithm. <i>Physical Review Letters</i> , 2013 , 111, 203001	7.4	28
460	Topology by dissipation. <i>New Journal of Physics</i> , 2013 , 15, 085001	2.9	142
459	Superconducting circuits for quantum simulation of dynamical gauge fields. <i>Physical Review Letters</i> , 2013 , 111, 110504	7.4	75
458	Driven-dissipative dynamics of a strongly interacting Rydberg gas. <i>Physical Review A</i> , 2012 , 86,	2.6	42
457	Topological flat bands from dipolar spin systems. <i>Physical Review Letters</i> , 2012 , 109, 266804	7.4	84
456	Atomic Rydberg reservoirs for polar molecules. <i>Physical Review Letters</i> , 2012 , 108, 193007	7.4	23
455	Nanoplasmonic lattices for ultracold atoms. <i>Physical Review Letters</i> , 2012 , 109, 235309	7.4	96
454	Condensed matter theory of dipolar quantum gases. <i>Chemical Reviews</i> , 2012 , 112, 5012-61	68.1	446
453	Reservoir engineering and dynamical phase transitions in optomechanical arrays. <i>Physical Review A</i> , 2012 , 86,	2.6	68
452	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	7.4	179
451	Engineered Open Systems and Quantum Simulations with Atoms and Ions. <i>Advances in Atomic, Molecular and Optical Physics</i> , 2012 , 1-80	1.7	156
450	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	28
449	Preparing and probing atomic Majorana fermions and topological order in optical lattices. <i>New Journal of Physics</i> , 2012 , 14, 113036	2.9	39

448	Ultracold Atoms and Molecules in Optical Lattices. <i>Contemporary Concepts of Condensed Matter Science</i> , 2012 , 5, 121-156		
447	Measuring entanglement growth in quench dynamics of bosons in an optical lattice. <i>Physical Review Letters</i> , 2012 , 109, 020505	7.4	231
446	Continuous mode cooling and phonon routers for phononic quantum networks. <i>New Journal of Physics</i> , 2012 , 14, 115004	2.9	115
445	Noise- and disorder-resilient optical lattices. <i>Physical Review A</i> , 2012 , 86,	2.6	13
444	Optomechanical quantum information processing with photons and phonons. <i>Physical Review Letters</i> , 2012 , 109, 013603	7.4	295
443	Majorana modes in driven-dissipative atomic superfluids with a zero Chern number. <i>Physical Review Letters</i> , 2012 , 109, 130402	7.4	54
442	Driven-dissipative preparation of entangled states in cascaded quantum-optical networks. <i>New Journal of Physics</i> , 2012 , 14, 063014	2.9	105
441	Topology by dissipation in atomic quantum wires. <i>Nature Physics</i> , 2011 , 7, 971-977	16.2	287
440	An open-system quantum simulator with trapped ions. <i>Nature</i> , 2011 , 470, 486-91	50.4	645
439	State-dependent lattices for quantum computing with alkaline-earth-metal atoms. <i>European Physical Journal D</i> , 2011 , 65, 207-217	1.3	19
438	Universal digital quantum simulation with trapped ions. <i>Science</i> , 2011 , 334, 57-61	33.3	377
437	Quantum information processing in self-assembled crystals of cold polar molecules. <i>Quantum Information Processing</i> , 2011 , 10, 793-819	1.6	8
436	Prospects of quantum information processing with atoms. <i>Quantum Information Processing</i> , 2011 , 10, 1061-1063	1.6	1
435	Majorana fermions in equilibrium and in driven cold-atom quantum wires. <i>Physical Review Letters</i> , 2011 , 106, 220402	7.4	501
434	Rydberg excitation of trapped cold ions: a detailed case study. <i>New Journal of Physics</i> , 2011 , 13, 075014	2.9	27
433	Trimer liquids and crystals of polar molecules in coupled wires. <i>Physical Review Letters</i> , 2011 , 107, 163202	2.4	30
432	Spatial Pauli blocking of spontaneous emission in optical lattices. <i>Physical Review A</i> , 2011 , 84,	2.6	16
431	Optomechanical transducers for quantum-information processing. <i>Physical Review A</i> , 2011 , 84,	2.6	86

430	Ion-assisted ground-state cooling of a trapped polar molecule. <i>Physical Review A</i> , 2011 , 83,	2.6	8
429	Atomic matter-wave revivals with definite atom number in an optical lattice. <i>Physical Review A</i> , 2011 , 83,	2.6	20
428	Bilayer superfluidity of fermionic polar molecules: Many-body effects. <i>Physical Review A</i> , 2011 , 83,	2.6	67
427	Nonequilibrium phase diagram of a driven and dissipative many-body system. <i>Physical Review A</i> , 2011 , 83,	2.6	65
426	Simulating open quantum systems: from many-body interactions to stabilizer pumping. <i>New Journal of Physics</i> , 2011 , 13, 085007	2.9	70
425	Two-orbital S U(N) magnetism with ultracold alkaline-earth atoms. <i>Nature Physics</i> , 2010 , 6, 289-295	16.2	457
424	A Rydberg quantum simulator. <i>Nature Physics</i> , 2010 , 6, 382-388	16.2	503
423	A quantum spin transducer based on nanoelectromechanical resonator arrays. <i>Nature Physics</i> , 2010 , 6, 602-608	16.2	285
422	Universal rates for reactive ultracold polar molecules in reduced dimensions. <i>Physical Review Letters</i> , 2010 , 105, 073202	7.4	66
421	Condensate of fermionic atom pairs via adiabatic state preparation. <i>Physical Review Letters</i> , 2010 , 104, 240406	7.4	16
420	Nonequilibrium dynamics of bosonic atoms in optical lattices: Decoherence of many-body states due to spontaneous emission. <i>Physical Review A</i> , 2010 , 82,	2.6	112
419	Optical lattices with micromechanical mirrors. <i>Physical Review A</i> , 2010 , 82,	2.6	45
418	Observability of quantum criticality and a continuous supersolid in atomic gases. <i>Physical Review Letters</i> , 2010 , 104, 165301	7.4	43
417	Dynamical phase transitions and instabilities in open atomic many-body systems. <i>Physical Review Letters</i> , 2010 , 105, 015702	7.4	215
416	Quantum phases of cold polar molecules in 2D optical lattices. <i>Physical Review Letters</i> , 2010 , 104, 125301	7.4	200
415	Cavity opto-mechanics using an optically levitated nanosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 1005-10	11.5	381
414	One-dimensional quantum liquids with power-law interactions: the Luttinger staircase. <i>Physical Review Letters</i> , 2010 , 105, 140401	7.4	46
413	Supersolid droplet crystal in a dipole-blockaded gas. <i>Physical Review Letters</i> , 2010 , 105, 135301	7.4	169

412	Strongly correlated gases of Rydberg-dressed atoms: quantum and classical dynamics. <i>Physical Review Letters</i> , 2010 , 104, 223002	7.4	221
411	Dissipation-induced d-wave pairing of fermionic atoms in an optical lattice. <i>Physical Review Letters</i> , 2010 , 105, 227001	7.4	54
410	Efficient quantum repeater based on deterministic Rydberg gates. <i>Physical Review A</i> , 2010 , 81,	2.6	64
409	Single-atom cavity QED and optomechanics. <i>Physical Review A</i> , 2010 , 81,	2.6	87
408	Quantum field theory for the three-body constrained lattice Bose gas. I. Formal developments. <i>Physical Review B</i> , 2010 , 82,	3.3	27
407	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,	3.3	27
406	Optomechanical transducers for long-distance quantum communication. <i>Physical Review Letters</i> , 2010 , 105, 220501	7.4	309
405	A single trapped atom in front of an oscillating mirror. <i>Optics Communications</i> , 2010 , 283, 758-765	2	28
404	Strong coupling of a mechanical oscillator and a single atom. <i>Physical Review Letters</i> , 2009 , 103, 063005	7.4	164
403	Alkaline-earth-metal atoms as few-qubit quantum registers. <i>Physical Review Letters</i> , 2009 , 102, 110503	7.4	116
402	Phase diagram of one-dimensional hard-core bosons with three-body interactions. <i>Physical Review B</i> , 2009 , 79,	3.3	34
401	Stabilization of the p-wave superfluid state in an optical lattice. <i>Physical Review Letters</i> , 2009 , 103, 070404	7.4	36
400	Trap-assisted creation of giant molecules and Rydberg-mediated coherent charge transfer in a Penning trap. <i>Physical Review A</i> , 2009 , 79,	2.6	4
399	Atomic color superfluid via three-body loss. <i>Physical Review Letters</i> , 2009 , 103, 240401	7.4	43
398	Dipole oscillations of confined lattice bosons in one dimension. <i>Physical Review A</i> , 2009 , 79,	2.6	20
397	Atomic three-body loss as a dynamical three-body interaction. <i>Physical Review Letters</i> , 2009 , 102, 040402	7.4	167
396	Quantum simulations of extended Hubbard models with dipolar crystals. <i>New Journal of Physics</i> , 2009 , 11, 055045	2.9	42
395	Establishing Einstein-Podolsky-Rosen channels between nanomechanics and atomic ensembles. <i>Physical Review Letters</i> , 2009 , 102, 020501	7.4	138

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