Juan Ignacio Cirac Sasturin

List of Publications by Year in Descending Order

577 papers	64,280 citations	119 h-index	241 g-index
614 ext. papers	73,163 ext. citations	5.8 avg, IF	8.06 L-index

#	Paper	IF	Citations
577	Sequential Generation of Projected Entangled-Pair States.. *Physical Review Letters*, **2022**, 128, 010607	7.4	0
576	Spin-Holstein Models in Trapped-Ion Systems.. *Physical Review Letters*, **2022**, 128, 120404	7.4	0
575	Bose polaron and the Efimov effect: A Gaussian-state approach. *Physical Review A*, **2022**, 105,	2.6	2
574	Chemistry of a Light Impurity in a Bose-Einstein Condensate.. *Physical Review Letters*, **2022**, 128, 183401	7.4	2
573	Matrix product states and projected entangled pair states: Concepts, symmetries, theorems. *Reviews of Modern Physics*, **2021**, 93,	40.5	22
572	Quantum Circuits Assisted by Local Operations and Classical Communication: Transformations and Phases of Matter. *Physical Review Letters*, **2021**, 127, 220503	7.4	0
571	Locally Accurate Tensor Networks for Thermal States and Time Evolution. *PRX Quantum*, **2021**, 2,	6.1	1
570	Approximating the long time average of the density operator: Diagonal ensemble. *Physical Review B*, **2021**, 103,	3.3	1
569	Field tensor network states. *Physical Review B*, **2021**, 103,	3.3	1
568	Generation of photonic matrix product states with Rydberg atomic arrays. *Physical Review Research* , **2021**, 3,	3.9	3
567	Topological Lower Bound on Quantum Chaos by Entanglement Growth. *Physical Review Letters*, **2021**, 126, 160601	7.4	5
566	Rényi free energy and variational approximations to thermal states. *Physical Review B*, **2021**, 103,	3.3	1
565	Algorithms for Quantum Simulation at Finite Energies. *PRX Quantum*, **2021**, 2,	6.1	7
564	Generalization of group-theoretic coherent states for variational calculations. *Physical Review Research*, **2021**, 3,	3.9	4
563	Simulating 2+1D Z_{3} Lattice Gauge Theory with an Infinite Projected Entangled-Pair State. *Physical Review Letters*, **2021**, 126, 050401	7.4	3
562	Higgs-Mediated Optical Amplification in a Nonequilibrium Superconductor. *Physical Review X*, **2021**, 11,	9.1	4
561	Locality of temperature and correlations in the presence of non-zero-temperature phase transitions. *New Journal of Physics*, **2021**, 23, 073052	2.9	1

560	Exploiting the photonic nonlinearity of free-space subwavelength arrays of atoms. *Physical Review A*, **2021**, 104,	2.6	3
559	Fermionic quantum cellular automata and generalized matrix-product unitaries. *Journal of Statistical Mechanics: Theory and Experiment*, **2021**, 2021, 013107	1.9	6
558	Atomic waveguide QED with atomic dimers. *Physical Review A*, **2021**, 104,	2.6	2
557	Convergence Guarantees for Discrete Mode Approximations to Non-Markovian Quantum Baths.. *Physical Review Letters*, **2021**, 127, 250404	7.4	0
556	Quantum East Model: Localization, Nonthermal Eigenstates, and Slow Dynamics. *Physical Review X*, **2020**, 10,	9.1	24
555	Wigner crystals in two-dimensional transition-metal dichalcogenides: Spin physics and readout. *Physical Review B*, **2020**, 101,	3.3	5
554	Exact dynamics in dual-unitary quantum circuits. *Physical Review B*, **2020**, 101,	3.3	45
553	Probing Thermalization through Spectral Analysis with Matrix Product Operators. *Physical Review Letters*, **2020**, 124, 100602	7.4	8
552	Classification of Matrix-Product Unitaries with Symmetries. *Physical Review Letters*, **2020**, 124, 100402	7.4	9
551	Multimode Fock states with large photon number: effective descriptions and applications in quantum metrology. *Quantum Science and Technology*, **2020**, 5, 025003	5.5	8
550	From Probabilistic Graphical Models to Generalized Tensor Networks for Supervised Learning. *IEEE Access*, **2020**, 8, 68169-68182	3.5	10
549	Nondestructive photon counting in waveguide QED. *Physical Review Research*, **2020**, 2,	3.9	7
548	Ultrafast molecular dynamics in terahertz-STM experiments: Theoretical analysis using the Anderson-Holstein model. *Physical Review Research*, **2020**, 2,	3.9	5
547	Quantum simulation of two-dimensional quantum chemistry in optical lattices. *Physical Review Research*, **2020**, 2,	3.9	1
546	Real-time dynamics in 2+1D compact QED using complex periodic Gaussian states. *Physical Review Research*, **2020**, 2,	3.9	10
545	Zero-temperature phases of the two-dimensional Hubbard-Holstein model: A non-Gaussian exact diagonalization study. *Physical Review Research*, **2020**, 2,	3.9	12
544	Efficient Description of Many-Body Systems with Matrix Product Density Operators. *PRX Quantum*, **2020**, 1,	6.1	10
543	Quantum computing and simulation. *Nanophotonics*, **2020**, 10, 453-456	6.3	0

542	Evaluation of time-dependent correlators after a local quench in iPEPS: hole motion in the t-J model. *SciPost Physics*, **2020**, 8,	6.1	11
541	Realizing a deterministic source of multipartite-entangled photonic qubits. *Nature Communications*, **2020**, 11, 4877	17.4	6
540	Entanglement and its relation to energy variance for local one-dimensional Hamiltonians. *Physical Review B*, **2020**, 101,	3.3	3
539	Simulating lattice gauge theories within quantum technologies. *European Physical Journal D*, **2020**, 74, 1	1.3	84
538	Quantum Cellular Automata, Tensor Networks, and Area Laws. *Physical Review Letters*, **2020**, 125, 190402	7.4	15
537	Variational Approach for Many-Body Systems at Finite Temperature. *Physical Review Letters*, **2020**, 125, 180602	7.4	9
536	Markovianity of an emitter coupled to a structured spin-chain bath. *Physical Review A*, **2020**, 101,	2.6	2
535	Gaussian time-dependent variational principle for the Bose-Hubbard model. *Physical Review B*, **2019**, 100,	3.3	14
534	Matrix Product States: Entanglement, Symmetries, and State Transformations. *Physical Review Letters*, **2019**, 123, 170504	7.4	2
533	Mathematical open problems in projected entangled pair states. *Revista Matematica Complutense*, **2019**, 32, 579-599	0.8	2
532	Engineering and Harnessing Giant Atoms in High-Dimensional Baths: A Proposal for Implementation with Cold Atoms. *Physical Review Letters*, **2019**, 122, 203603	7.4	18
531	Restricted Boltzmann machines in quantum physics. *Nature Physics*, **2019**, 15, 887-892	16.2	55
530	Continuous Tensor Network States for Quantum Fields. *Physical Review X*, **2019**, 9,	9.1	10
529	Quantum metrology with one-dimensional superradiant photonic states. *Physical Review A*, **2019**, 99,	2.6	15
528	Faster ground state preparation and high-precision ground energy estimation with fewer qubits. *Journal of Mathematical Physics*, **2019**, 60, 022202	1.2	20
527	Removing staggered fermionic matter in U(N) and SU(N) lattice gauge theories. *Physical Review D*, **2019**, 99,	4.9	21
526	Quantum simulation and optimization in hot quantum networks. *Physical Review B*, **2019**, 99,	3.3	2
525	Unconventional quantum optics in topological waveguide QED. *Science Advances*, **2019**, 5, eaaw0297	14.3	61

524	The 2019 surface acoustic waves roadmap. *Journal Physics D: Applied Physics*, **2019**, 52, 353001	3	112
523	Analogue quantum chemistry simulation. *Nature*, **2019**, 574, 215-218	50.4	40
522	Cold atoms in twisted-bilayer optical potentials. *Physical Review A*, **2019**, 100,	2.6	13
521	Efficient variational approach to dynamics of a spatially extended bosonic Kondo model. *Physical Review A*, **2019**, 100,	2.6	7
520	Quantum Rydberg Central Spin Model. *Physical Review Letters*, **2019**, 123, 183001	7.4	17
519	Time-dependent study of disordered models with infinite projected entangled pair states. *SciPost Physics*, **2019**, 6,	6.1	18
518	Tensor Networks and their use for Lattice Gauge Theories **2019**,		7
517	Quantum chaos in the Brownian SYK model with large finite N : OTOCs and tripartite information. *Journal of High Energy Physics*, **2019**, 2019, 1	5.4	26
516	Machine learning and the physical sciences*. *Reviews of Modern Physics*, **2019**, 91,	40.5	520
515	Combining tensor networks with Monte Carlo methods for lattice gauge theories. *Physical Review D* , **2018**, 97,	4.9	13
514	Exotic quantum dynamics and purely long-range coherent interactions in Dirac conelike baths. *Physical Review A*, **2018**, 97,	2.6	25
513	Unitary n-designs via random quenches in atomic Hubbard and spin models: Application to the measurement of Rényi entropies. *Physical Review A*, **2018**, 97,	2.6	38
512	Rényi Entropies from Random Quenches in Atomic Hubbard and Spin Models. *Physical Review Letters*, **2018**, 120, 050406	7.4	89
511	Variational study of fermionic and bosonic systems with non-Gaussian states: Theory and applications. *Annals of Physics*, **2018**, 390, 245-302	2.5	48
510	Neural-Network Quantum States, String-Bond States, and Chiral Topological States. *Physical Review X*, **2018**, 8,	9.1	104
509	Exploring the anisotropic Kondo model in and out of equilibrium with alkaline-earth atoms. *Physical Review B*, **2018**, 97,	3.3	22
508	Almost conserved operators in nearly many-body localized systems. *Physical Review B*, **2018**, 97,	3.3	9
507	Variational principle for quantum impurity systems in and out of equilibrium: Application to Kondo problems. *Physical Review B*, **2018**, 98,	3.3	19

506	Solving Quantum Impurity Problems in and out of Equilibrium with the Variational Approach. *Physical Review Letters*, **2018**, 121, 026805	7.4	22
505	Eliminating fermionic matter fields in lattice gauge theories. *Physical Review B*, **2018**, 98,	3.3	26
504	Continuum limits of matrix product states. *Physical Review B*, **2018**, 98,	3.3	4
503	Effective many-body Hamiltonians of qubit-photon bound states. *New Journal of Physics*, **2018**, 20, 105005	2.9	13
502	Computational Speedups Using Small Quantum Devices. *Physical Review Letters*, **2018**, 121, 250501	7.4	13
501	Normal projected entangled pair states generating the same state. *New Journal of Physics*, **2018**, 20, 113017	2.9	9
500	Digital quantum simulation of lattice gauge theories in three spatial dimensions. *New Journal of Physics*, **2018**, 20, 093001	2.9	42
499	Bosonic Gaussian states from conformal field theory. *Physical Review B*, **2018**, 98,	3.3	4
498	Localization with random time-periodic quantum circuits. *Physical Review B*, **2018**, 98,	3.3	24
497	Variational study of U(1) and SU(2) lattice gauge theories with Gaussian states in 1+1 dimensions. *Physical Review D*, **2018**, 98,	4.9	26
496	Projected entangled pair states with continuous virtual symmetries. *Physical Review B*, **2018**, 98,	3.3	2
495	A generalization of the injectivity condition for projected entangled pair states. *Journal of Mathematical Physics*, **2018**, 59, 021902	1.2	7
494	Generation of single- and two-mode multiphoton states in waveguide QED. *Physical Review A*, **2018** , 97,	2.6	7
493	Solid-state magnetic traps and lattices. *Physical Review B*, **2018**, 97,	3.3	1
492	Towards overcoming the Monte Carlo sign problem with tensor networks. *EPJ Web of Conferences*, **2017**, 137, 04001	0.3	16
491	Quantum simulation of the Abelian-Higgs lattice gauge theory with ultracold atoms. *New Journal of Physics*, **2017**, 19, 063038	2.9	29
490	Heralded multiphoton states with coherent spin interactions in waveguide QED. *New Journal of Physics*, **2017**, 19, 043004	2.9	5
489	Density Induced Phase Transitions in the Schwinger Model: A Study with Matrix Product States. *Physical Review Letters*, **2017**, 118, 071601	7.4	41

488	Digital Quantum Simulation of Z_{2} Lattice Gauge Theories with Dynamical Fermionic Matter. *Physical Review Letters*, **2017**, 118, 070501	7.4	46
487	Matrix product density operators: Renormalization fixed points and boundary theories. *Annals of Physics*, **2017**, 378, 100-149	2.5	37
486	Quantum optics, what next?. *Nature Photonics*, **2017**, 11, 18-20	33.9	12
485	Efficient quantum computation in a network with probabilistic gates and logical encoding. *Physical Review A*, **2017**, 95,	2.6	5
484	Effective description of correlations for states obtained from conformal field theory. *Physical Review B*, **2017**, 96,	3.3	2
483	Quantum Spin Stabilized Magnetic Levitation. *Physical Review Letters*, **2017**, 119, 167202	7.4	29
482	Quantum Emitters in Two-Dimensional Structured Reservoirs in the Nonperturbative Regime. *Physical Review Letters*, **2017**, 119, 143602	7.4	52
481	Markovian and non-Markovian dynamics of quantum emitters coupled to two-dimensional structured reservoirs. *Physical Review A*, **2017**, 96,	2.6	53
480	Topological phenomena in classical optical networks. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E8967-E8976	11.5	15
479	Acoustic Traps and Lattices for Electrons in Semiconductors. *Physical Review X*, **2017**, 7,	9.1	12
478	Matrix product unitaries: structure, symmetries, and topological invariants. *Journal of Statistical Mechanics: Theory and Experiment*, **2017**, 2017, 083105	1.9	81
477	Correlation Decay in Fermionic Lattice Systems with Power-Law Interactions at Nonzero Temperature. *Physical Review Letters*, **2017**, 119, 110601	7.4	10
476	Classification of matrix product states with a local (gauge) symmetry. *Annals of Physics*, **2017**, 386, 199-241	2.5	13
475	Energy as a Detector of Nonlocality of Many-Body Spin Systems. *Physical Review X*, **2017**, 7,	9.1	19
474	High-fidelity hot gates for generic spin-resonator systems. *Physical Review A*, **2017**, 95,	2.6	21
473	Ultrafocused Electromagnetic Field Pulses with a Hollow Cylindrical Waveguide. *Physical Review Letters*, **2017**, 119, 043904	7.4	1
472	Linear stability analysis of a levitated nanomagnet in a static magnetic field: Quantum spin stabilized magnetic levitation. *Physical Review B*, **2017**, 96,	3.3	10
471	Digital lattice gauge theories. *Physical Review A*, **2017**, 95,	2.6	44

470	Efficient Multiphoton Generation in Waveguide Quantum Electrodynamics. *Physical Review Letters*, **2017**, 118, 213601	7.4	43
469	Quantum computing with neutral atoms. *Physics Today*, **2017**, 70, 44-50	0.9	58
468	Efficient Basis Formulation for (1+1)-Dimensional SU(2) Lattice Gauge Theory: Spectral Calculations with Matrix Product States. *Physical Review X*, **2017**, 7,	9.1	30
467	Irreducible forms of matrix product states: Theory and applications. *Journal of Mathematical Physics* , **2017**, 58, 121901	1.2	8
466	Dynamics of quantum information in many-body localized systems. *Physical Review B*, **2017**, 96,	3.3	12
465	Quantum Gross-Pitaevskii Equation. *SciPost Physics*, **2017**, 3,	6.1	6
464	Ultrashort Pulses for Far-Field Nanoscopy. *Physical Review Letters*, **2016**, 117, 103602	7.4	1
463	Rapid Adiabatic Preparation of Injective Projected Entangled Pair States and Gibbs States. *Physical Review Letters*, **2016**, 116, 080503	7.4	24
462	Bound States in Boson Impurity Models. *Physical Review X*, **2016**, 6,	9.1	57
461	Dissipative long-range entanglement generation between electronic spins. *Physical Review B*, **2016**, 94,	3.3	8
460	Systematic construction of density functionals based on matrix product state computations. *New Journal of Physics*, **2016**, 18, 083039	2.9	10
459	Lattice effects on Laughlin wave functions and parent Hamiltonians. *Physical Review B*, **2016**, 94,	3.3	14
458	Quantum simulations of lattice gauge theories using ultracold atoms in optical lattices. *Reports on Progress in Physics*, **2016**, 79, 014401	14.4	172
457	Quantum Computing with Cold Ions and Atoms: Theory **2016**, 483-517		
456	Quasi-Many-Body Localization in Translation-Invariant Systems. *Physical Review Letters*, **2016**, 117, 240601	7.4	84
455	Fundamental limitations in the purifications of tensor networks. *Journal of Mathematical Physics*, **2016**, 57, 071902	1.2	15
454	Projected Entangled Pair States with non-Abelian gauge symmetries: An SU(2) study. *Annals of Physics*, **2016**, 374, 84-137	2.5	30
453	Quantum spin dynamics with pairwise-tunable, long-range interactions. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E4946-55	11.5	67

452	Efficient variational diagonalization of fully many-body localized Hamiltonians. *Physical Review B*, **2016**, 94,	3.3	48
451	Approximating Gibbs states of local Hamiltonians efficiently with projected entangled pair states. *Physical Review B*, **2015**, 91,	3.3	65
450	Chiral projected entangled-pair state with topological order. *Physical Review Letters*, **2015**, 114, 106803	7.4	25
449	Subwavelength vacuum lattices and atom–atom interactions in two-dimensional photonic crystals. *Nature Photonics*, **2015**, 9, 320-325	33.9	169
448	Exact parent Hamiltonians of bosonic and fermionic Moore–Read states on lattices and local models. *New Journal of Physics*, **2015**, 17, 082001	2.9	27
447	Frustration Free Gapless Hamiltonians for Matrix Product States. *Communications in Mathematical Physics*, **2015**, 333, 299-333	2	16
446	Multiphoton-scattering theory and generalized master equations. *Physical Review A*, **2015**, 92,	2.6	104
445	Chiral topological spin liquids with projected entangled pair states. *Physical Review B*, **2015**, 91,	3.3	30
444	Edge states for the Kalmeyer-Laughlin wave function. *Physical Review B*, **2015**, 92,	3.3	6
443	Thermal evolution of the Schwinger model with matrix product operators. *Physical Review D*, **2015**, 92,	4.9	39
442	Deterministic Generation of Arbitrary Photonic States Assisted by Dissipation. *Physical Review Letters*, **2015**, 115, 163603	7.4	56
441	Gauging Quantum States: From Global to Local Symmetries in Many-Body Systems. *Physical Review X*, **2015**, 5,	9.1	61
440	Slowest local operators in quantum spin chains. *Physical Review E*, **2015**, 92, 012128	2.4	32
439	Universal Quantum Transducers Based on Surface Acoustic Waves. *Physical Review X*, **2015**, 5,	9.1	102
438	Non-Abelian string breaking phenomena with matrix product states. *Journal of High Energy Physics*, **2015**, 2015, 1	5.4	51
437	Quantum dynamics of propagating photons with strong interactions: a generalized input–output formalism. *New Journal of Physics*, **2015**, 17, 113001	2.9	94
436	Variational Matrix Product Operators for the Steady State of Dissipative Quantum Systems. *Physical Review Letters*, **2015**, 114, 220601	7.4	99
435	Fermionic projected entangled pair states and local U(1) gauge theories. *Annals of Physics*, **2015**, 363, 385-439	2.5	38

434	Temperature dependence of the chiral condensate in the Schwinger model with Matrix Product States **2015**,		4
433	Nuclear spin dynamics in double quantum dots: Multistability, dynamical polarization, criticality, and entanglement. *Physical Review B*, **2014**, 89,	3.3	10
432	Construction of spin models displaying quantum criticality from quantum field theory. *Nuclear Physics B*, **2014**, 886, 63-74	2.8	4
431	Algorithms for finite projected entangled pair states. *Physical Review B*, **2014**, 90,	3.3	77
430	Resonating-valence-bond superconductors with fermionic projected entangled pair states. *Physical Review B*, **2014**, 89,	3.3	20
429	Long-distance transfer and routing of static magnetic fields. *Physical Review Letters*, **2014**, 112, 253901	7.4	47
428	Unifying projected entangled pair state contractions. *New Journal of Physics*, **2014**, 16, 033014	2.9	56
427	Lattice Laughlin states of bosons and fermions at filling fractions 1/q. *New Journal of Physics*, **2014**, 16, 033025	2.9	31
426	Edge theories in projected entangled pair state models. *Physical Review Letters*, **2014**, 112, 036402	7.4	29
425	Optical-lattice implementation scheme of a bosonic topological model with fermionic atoms. *Physical Review A*, **2014**, 90,	2.6	7
424	Symmetries and boundary theories for chiral projected entangled pair states. *Physical Review B*, **2014**, 90,	3.3	21
423	Quantum simulation of the Schwinger model: A study of feasibility. *Physical Review A*, **2014**, 90,	2.6	52
422	Quantum teleportation of dynamics and effective interactions between remote systems. *Physical Review Letters*, **2013**, 111, 020501	7.4	7
421	Quantum simulations of gauge theories with ultracold atoms: Local gauge invariance from angular-momentum conservation. *Physical Review A*, **2013**, 88,	2.6	109
420	Optomechanics assisted by a qubit: From dissipative state preparation to many-partite systems. *Physical Review A*, **2013**, 88,	2.6	24
419	Superconducting vortex lattices for ultracold atoms. *Physical Review Letters*, **2013**, 111, 145304	7.4	63
418	Local models of fractional quantum Hall states in lattices and physical implementation. *Nature Communications*, **2013**, 4, 2864	17.4	58
417	Steady-state entanglement in the nuclear spin dynamics of a double quantum dot. *Physical Review Letters*, **2013**, 111, 246802	7.4	14

416	The mass spectrum of the Schwinger model with matrix product states. *Journal of High Energy Physics*, **2013**, 2013, 1	5.4	93
415	Topological order in the projected entangled-pair states formalism: transfer operator and boundary Hamiltonians. *Physical Review Letters*, **2013**, 111, 090501	7.4	71
414	Cold-atom quantum simulator for SU(2) Yang-Mills lattice gauge theory. *Physical Review Letters*, **2013**, 110, 125304	7.4	126
413	Simulating (2+1)-dimensional lattice QED with dynamical matter using ultracold atoms. *Physical Review Letters*, **2013**, 110, 055302	7.4	75
412	Noise-driven dynamics and phase transitions in fermionic systems. *Physical Review A*, **2013**, 87,	2.6	73
411	Topological phenomena in trapped-ion systems. *Physical Review A*, **2013**, 87,	2.6	13
410	Self-organization of atoms along a nanophotonic waveguide. *Physical Review Letters*, **2013**, 110, 113606	7.4	97
409	Dissipative spin chains: Implementation with cold atoms and steady-state properties. *Physical Review A*, **2013**, 87,	2.6	22
408	Topologically protected quantum state transfer in a chiral spin liquid. *Nature Communications*, **2013**, 4, 1585	17.4	38
407	Calculus of continuous matrix product states. *Physical Review B*, **2013**, 88,	3.3	41
406	Purifications of multipartite states: limitations and constructive methods. *New Journal of Physics*, **2013**, 15, 123021	2.9	38
405	ROCK inhibitor Y-27632 increases the cloning efficiency of limbal stem/progenitor cells by improving their adherence and ROS-scavenging capacity. *Tissue Engineering - Part C: Methods*, **2013**, 19, 531-7	2.9	17
404	Field-induced superfluids and Bose liquids in projected entangled pair states. *Physical Review B*, **2013**, 88,	3.3	7
403	Entanglement, fractional magnetization, and long-range interactions. *Physical Review B*, **2013**, 87,	3.3	12
402	Projected entangled-pair states can describe chiral topological states. *Physical Review Letters*, **2013**, 111, 236805	7.4	52
401	Robustness in projected entangled pair states. *Physical Review B*, **2013**, 88,	3.3	17
400	Robustness of quantum memories based on Majorana zero modes. *Physical Review B*, **2013**, 88,	3.3	35
399	Ground states of fermionic lattice Hamiltonians with permutation symmetry. *Physical Review A*, **2013**, 88,	2.6	7

398	Resonating valence bond states in the PEPS formalism. *Physical Review B*, **2012**, 86,	3.3	85
397	Dissipative phase transition in a central spin system. *Physical Review A*, **2012**, 86,	2.6	159
396	Nanoplasmonic lattices for ultracold atoms. *Physical Review Letters*, **2012**, 109, 235309	7.4	96
395	Simulating compact quantum electrodynamics with ultracold atoms: probing confinement and nonperturbative effects. *Physical Review Letters*, **2012**, 109, 125302	7.4	137
394	Scalable architecture for a room temperature solid-state quantum information processor. *Nature Communications*, **2012**, 3, 800	17.4	157
393	Robust entanglement generation by reservoir engineering. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2012**, 45, 124021	1.3	17
392	Room-temperature quantum bit memory exceeding one second. *Science*, **2012**, 336, 1283-6	33.3	580
391	Order parameter for symmetry-protected phases in one dimension. *Physical Review Letters*, **2012**, 109, 050402	7.4	55
390	Master-equation approach to optomechanics with arbitrary dielectrics. *Physical Review A*, **2012**, 86,	2.6	36
389	Tensor network techniques for the computation of dynamical observables in one-dimensional quantum spin systems. *New Journal of Physics*, **2012**, 14, 075003	2.9	23
388	Non-local Correlations in the Haldane Phase for an XXZ Spin-1 Chain: A Perspective from Infinite Matrix Product State Representation. *Journal of the Physical Society of Japan*, **2012**, 81, 074003	1.5	26
387	Quantum simulation of small-polaron formation with trapped ions. *Physical Review Letters*, **2012**, 109, 250501	7.4	35
386	Quantum magnetomechanics with levitating superconducting microspheres. *Physical Review Letters*, **2012**, 109, 147205	7.4	69
385	Variational matrix product ansatz for dispersion relations. *Physical Review B*, **2012**, 85,	3.3	77
384	Topological and entanglement properties of resonating valence bond wave functions. *Physical Review B*, **2012**, 86,	3.3	92
383	Matrix product states with long-range localizable entanglement. *Physical Review A*, **2012**, 86,	2.6	6
382	Gapless Hamiltonians for the toric code using the projected entangled pair state formalism. *Physical Review Letters*, **2012**, 109, 260401	7.4	12
381	Laughlin spin-liquid states on lattices obtained from conformal field theory. *Physical Review Letters*, **2012**, 108, 257206	7.4	63

380	Superradiance-like electron transport through a quantum dot. *Physical Review B*, **2012**, 86,	3.3	22
379	Unforgeable noise-tolerant quantum tokens. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 16079-16082	11.5	28
378	Overview of Bohmian Mechanics **2012**, 15-147		7
377	Hydrogen Photoionization with Strong Lasers **2012**, 149-188		1
376	Adaptive Quantum Monte Carlo Approach States for High-Dimensional Systems **2012**, 303-373		1
375	Relativistic Quantum Mechanics and Quantum Field Theory **2012**, 455-505		1
374	Subquantum Accelerating Universe **2012**, 507-560		0
373	The Role of Trajectories in Quantum Chemistry and Chemical Physics **2012**, 235-301		
372	Beyond the Eikonal Approximation in Classical Optics and Quantum Physics **2012**, 425-453		2
371	Optically levitating dielectrics in the quantum regime: Theory and protocols. *Physical Review A*, **2011**, 83,	2.6	155
370	Quantum memory, entanglement and sensing with room temperature atoms. *Journal of Physics: Conference Series*, **2011**, 264, 012022	0.3	
369	Classifying quantum phases using matrix product states and projected entangled pair states. *Physical Review B*, **2011**, 84,	3.3	426
368	Entanglement generated by dissipation and steady state entanglement of two macroscopic objects. *Physical Review Letters*, **2011**, 107, 080503	7.4	375
367	Entanglement distillation by dissipation and continuous quantum repeaters. *Physical Review Letters* , **2011**, 107, 120502	7.4	73
366	Majorana fermions in equilibrium and in driven cold-atom quantum wires. *Physical Review Letters*, **2011**, 106, 220402	7.4	501
365	Large quantum superpositions and interference of massive nanometer-sized objects. *Physical Review Letters*, **2011**, 107, 020405	7.4	305
364	Dissipatively driven entanglement of two macroscopic atomic ensembles. *Physical Review A*, **2011**, 83,	2.6	108
363	Hawking radiation on an ion ring in the quantum regime. *New Journal of Physics*, **2011**, 13, 045008	2.9	12

362	Violation of the area law and long-range correlations in infinite-dimensional-matrix product states. *Physical Review A*, **2011**, 83,	2.6	9
361	Quantum memories based on engineered dissipation. *Physical Review A*, **2011**, 83,	2.6	85
360	Entanglement spectrum and boundary theories with projected entangled-pair states. *Physical Review B*, **2011**, 83,	3.3	178
359	Adiabatic preparation of a Heisenberg antiferromagnet using an optical superlattice. *Physical Review Letters*, **2011**, 107, 165301	7.4	43
358	Time-dependent variational principle for quantum lattices. *Physical Review Letters*, **2011**, 107, 070601	7.4	294
357	Ion crystal transducer for strong coupling between single ions and single photons. *Physical Review Letters*, **2011**, 107, 030501	7.4	27
356	Strong and weak thermalization of infinite nonintegrable quantum systems. *Physical Review Letters* , **2011**, 106, 050405	7.4	193
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1 Ensemble Quantum Computation and Algorithmic Cooling in Optical Lattices99-120