

Franco Nori

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.

801 papers	52,116 citations	104 h-index	199 g-index
858 ext. papers	62,552 ext. citations	6 avg, IF	8.27 L-index

#	Paper	IF	Citations
801	Field theory spin and momentum in water waves.. <i>Science Advances</i> , 2022 , 8, eabm1295	14.3	0
800	Quantum Squeezing Induced Optical Nonreciprocity.. <i>Physical Review Letters</i> , 2022 , 128, 083604	7.4	2
799	Metrological Characterization of Non-Gaussian Entangled States of Superconducting Qubits.. <i>Physical Review Letters</i> , 2022 , 128, 150501	7.4	1
798	Dissipative Topological Phase Transition with Strong System-Environment Coupling.. <i>Physical Review Letters</i> , 2021 , 127, 250402	7.4	2
797	Liouvillian spectral collapse in the Scully-Lamb laser model. <i>Physical Review Research</i> , 2021 , 3,	3.9	4
796	Higher-Order Weyl-Exceptional-Ring Semimetals. <i>Physical Review Letters</i> , 2021 , 127, 196801	7.4	1
795	Particle-like topologies in light. <i>Nature Communications</i> , 2021 , 12, 6785	17.4	11
794	Optomechanical dynamics in the PT- and broken-PT-symmetric regimes. <i>Physical Review A</i> , 2021 , 104,	2.6	4
793	n-photon blockade with an n-photon parametric drive. <i>Physical Review A</i> , 2021 , 104,	2.6	4
792	Experimental demonstration of coherence flow in PT- and anti-PT-symmetric systems. <i>Communications Physics</i> , 2021 , 4,	5.4	1
791	General Bound on the Performance of Counter-Diabatic Driving Acting on Dissipative Spin Systems. <i>Physical Review Letters</i> , 2021 , 127, 150401	7.4	2
790	Significant enhancement in refrigeration and entanglement in auxiliary-cavity-assisted optomechanical systems. <i>Physical Review A</i> , 2021 , 104,	2.6	3
789	Two-level systems with periodic N-step driving fields: Exact dynamics and quantum state manipulations. <i>Physical Review A</i> , 2021 , 104,	2.6	5
788	All-optical reversible single-photon isolation at room temperature. <i>Science Advances</i> , 2021 , 7,	14.3	7
787	Exceptional Point and Cross-Relaxation Effect in a Hybrid Quantum System. <i>PRX Quantum</i> , 2021 , 2,	6.1	10
786	Gauge freedom, quantum measurements, and time-dependent interactions in cavity QED. <i>Physical Review Research</i> , 2021 , 3,	3.9	2
785	Topology-Enhanced Nonreciprocal Scattering and Photon Absorption in a Waveguide. <i>Physical Review Applied</i> , 2021 , 15,	4.3	2

784	Fundamental limits for reciprocal and nonreciprocal non-Hermitian quantum sensing. <i>Physical Review A</i> , 2021 , 103,	2.6	3
783	Solving quasiparticle band spectra of real solids using neural-network quantum states. <i>Communications Physics</i> , 2021 , 4,	5.4	1
782	Dissipative state transfer and Maxwell's demon in single quantum trajectories: Excitation transfer between two noninteracting qubits via unbalanced dissipation rates. <i>Physical Review A</i> , 2021 , 103,	2.6	1
781	Unconventional Quantum Sound-Matter Interactions in Spin-Optomechanical-Crystal Hybrid Systems. <i>Physical Review Letters</i> , 2021 , 126, 203601	7.4	6
780	Gauge principle and gauge invariance in two-level systems. <i>Physical Review A</i> , 2021 , 103,	2.6	1
779	Domino cooling of a coupled mechanical-resonator chain via cold-damping feedback. <i>Physical Review A</i> , 2021 , 103,	2.6	3
778	Generating and detecting entangled cat states in dissipatively coupled degenerate optical parametric oscillators. <i>Physical Review A</i> , 2021 , 104,	2.6	1
777	Generating high-order quantum exceptional points in synthetic dimensions. <i>Physical Review A</i> , 2021 , 104,	2.6	6
776	Experimental demonstration of one-shot coherence distillation: realizing N-dimensional strictly incoherent operations. <i>Optica</i> , 2021 , 8, 1003	8.6	1
775	Resonant Raman scattering of single molecules under simultaneous strong cavity coupling and ultrastrong optomechanical coupling in plasmonic resonators: Phonon-dressed polaritons. <i>Physical Review B</i> , 2021 , 104,	3.3	1
774	Transverse spinning of unpolarized light. <i>Nature Photonics</i> , 2021 , 15, 156-161	33.9	24
773	Shortcuts to Adiabaticity for the Quantum Rabi Model: Efficient Generation of Giant Entangled Cat States via Parametric Amplification. <i>Physical Review Letters</i> , 2021 , 126, 023602	7.4	28
772	Phase-Controlled Pathway Interferences and Switchable Fast-Slow Light in a Cavity-Magnon Polariton System. <i>Physical Review Applied</i> , 2021 , 15,	4.3	11
771	Symmetries and conserved quantities of boundary time crystals in generalized spin models. <i>Physical Review B</i> , 2021 , 104,	3.3	2
770	Transverse shifts and time delays of spatiotemporal vortex pulses reflected and refracted at a planar interface. <i>Nanophotonics</i> , 2021 ,	6.3	6
769	Purifying Deep Boltzmann Machines for Thermal Quantum States. <i>Physical Review Letters</i> , 2021 , 127, 060601	7.4	1
768	Generating Long-Lived Macroscopically Distinct Superposition States in Atomic Ensembles. <i>Physical Review Letters</i> , 2021 , 127, 093602	7.4	6
767	Work statistics in non-Hermitian evolutions with Hermitian endpoints. <i>Physical Review E</i> , 2021 , 104, 034107	10.7	0

766	Quantum State Tomography with Conditional Generative Adversarial Networks. <i>Physical Review Letters</i> , 2021 , 127, 140502	7.4	14
765	Fast binomial-code holonomic quantum computation with ultrastrong light-matter coupling. <i>Physical Review Research</i> , 2021 , 3,	3.9	5
764	Classification and reconstruction of optical quantum states with deep neural networks. <i>Physical Review Research</i> , 2021 , 3,	3.9	6
763	Tunable Chiral Bound States with Giant Atoms. <i>Physical Review Letters</i> , 2021 , 126, 043602	7.4	15
762	Active particle diffusion in convection roll arrays. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 11944-11953	10.3	2
761	Atoms in separated resonators can jointly absorb a single photon. <i>Scientific Reports</i> , 2020 , 10, 21660	4.9	2
760	Spin squeezing by one-photonâTwo-atom excitation processes in atomic ensembles. <i>Physical Review A</i> , 2020 , 101,	2.6	9
759	Validity of mean-field theory in a dissipative critical system: Liouvillian gap, PT-symmetric antigap, and permutational symmetry in the XYZ model. <i>Physical Review B</i> , 2020 , 101,	3.3	16
758	Observing Information Backflow from Controllable Non-Markovian Multichannels in Diamond. <i>Physical Review Letters</i> , 2020 , 124, 210502	7.4	9
757	Acoustic versus electromagnetic field theory: scalar, vector, spinor representations and the emergence of acoustic spin. <i>New Journal of Physics</i> , 2020 , 22, 053050	2.9	14
756	Implementing a multi-target-qubit controlled-not gate with logical qubits outside a decoherence-free subspace and its application in creating quantum entangled states. <i>Physical Review A</i> , 2020 , 101,	2.6	6
755	Enhanced motility in a binary mixture of active nano/microswimmers. <i>Nanoscale</i> , 2020 , 12, 9717-9726	7.7	9
754	Hybrid-Liouvillian formalism connecting exceptional points of non-Hermitian Hamiltonians and Liouvillians via postselection of quantum trajectories. <i>Physical Review A</i> , 2020 , 101,	2.6	23
753	Probing dynamical phase transitions with a superconducting quantum simulator. <i>Science Advances</i> , 2020 , 6, eaba4935	14.3	28
752	Projecting an ultra-strongly-coupled system in a non-energy-eigenbasis with a driven nonlinear resonator. <i>Scientific Reports</i> , 2020 , 10, 1751	4.9	2
751	N-Phonon Bundle Emission via the Stokes Process. <i>Physical Review Letters</i> , 2020 , 124, 053601	7.4	32
750	Collectively induced exceptional points of quantum emitters coupled to nanoparticle surface plasmons. <i>Physical Review A</i> , 2020 , 101,	2.6	10
749	Quantum and semiclassical exceptional points of a linear system of coupled cavities with losses and gain within the Scully-Lamb laser theory. <i>Physical Review A</i> , 2020 , 101,	2.6	24

748	Topologically Protected Quantum Coherence in a Superatom. <i>Physical Review Letters</i> , 2020 , 124, 023603	7.4	15
747	Quantum reinforcement learning during human decision-making. <i>Nature Human Behaviour</i> , 2020 , 4, 294-307	3.7	31
746	Anisotropic Exclusion Effect between Photocatalytic Ag/AgCl Janus Particles and Passive Beads in a Dense Colloidal Matrix. <i>Langmuir</i> , 2020 , 36, 7091-7099	4	8
745	Shortcuts to Adiabatic Pumping in Classical Stochastic Systems. <i>Physical Review Letters</i> , 2020 , 124, 150603	7.4	14
744	Non-Hermitian topological Mott insulators in one-dimensional fermionic superlattices. <i>Physical Review B</i> , 2020 , 102,	3.3	14
743	Knotted polarizations and spin in three-dimensional polychromatic waves. <i>Physical Review Research</i> , 2020 , 2,	3.9	7
742	ThomasâReicheâKuhn (TRK) sum rule for interacting photons. <i>Nanophotonics</i> , 2020 , 10, 465-476	6.3	3
741	Strong spin squeezing induced by weak squeezing of light inside a cavity. <i>Nanophotonics</i> , 2020 , 9, 4853-4858	4.9	8
740	Nonreciprocal propagation of light in a chiral optical cross-Kerr nonlinear medium 2020 ,		1
739	Analog of a Quantum Heat Engine Using a Single-Spin Qubit. <i>Physical Review Letters</i> , 2020 , 125, 166802	7.4	16
738	Enhancing Spin-Phonon and Spin-Spin Interactions Using Linear Resources in a Hybrid Quantum System. <i>Physical Review Letters</i> , 2020 , 125, 153602	7.4	23
737	Detecting non-Markovianity via quantified coherence: theory and experiments. <i>Npj Quantum Information</i> , 2020 , 6,	8.6	8
736	Nonreciprocal ground-state cooling of multiple mechanical resonators. <i>Physical Review A</i> , 2020 , 102,	2.6	29
735	Spin density wave and electron nematicity in magic-angle twisted bilayer graphene. <i>Physical Review B</i> , 2020 , 102,	3.3	5
734	Edge modes in two-dimensional electromagnetic slab waveguides: Analogs of acoustic plasmons. <i>Physical Review B</i> , 2020 , 102,	3.3	10
733	Waveguide quantum electrodynamics with superconducting artificial giant atoms. <i>Nature</i> , 2020 , 583, 775-779	50.4	40
732	Tunable optomechanically induced transparency by controlling the dark-mode effect. <i>Physical Review A</i> , 2020 , 102,	2.6	24
731	Inverse Solidification Induced by Active Janus Particles. <i>Advanced Functional Materials</i> , 2020 , 30, 2003851	15.6	9

730	Topological quantum phase transitions retrieved through unsupervised machine learning. <i>Physical Review B</i> , 2020 , 102,	3.3	24
729	Landau-Zener-Stückelberg-Majorana interferometry of a superconducting qubit in front of a mirror. <i>Physical Review B</i> , 2020 , 102,	3.3	6
728	Janus Particles: Inverse Solidification Induced by Active Janus Particles (Adv. Funct. Mater. 39/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070260	15.6	0
727	Scalable quantum computer with superconducting circuits in the ultrastrong coupling regime. <i>Npj Quantum Information</i> , 2020 , 6,	8.6	15
726	Experimental demonstration of measurement-device-independent measure of quantum steering. <i>Npj Quantum Information</i> , 2020 , 6,	8.6	7
725	Dissipation-induced bistability in the two-photon Dicke model. <i>Scientific Reports</i> , 2020 , 10, 13408	4.9	7
724	Gauge invariance of the Dicke and Hopfield models. <i>Physical Review A</i> , 2020 , 102,	2.6	7
723	Breaking Anti-PT Symmetry by Spinning a Resonator. <i>Nano Letters</i> , 2020 , 20, 7594-7599	11.5	43
722	Liouvillian exceptional points of any order in dissipative linear bosonic systems: Coherence functions and switching between PT and anti-PT symmetries. <i>Physical Review A</i> , 2020 , 102,	2.6	16
721	Simulating ultrastrong-coupling processes breaking parity conservation in Jaynes-Cummings systems. <i>Physical Review A</i> , 2020 , 102,	2.6	8
720	Eigenstate extraction with neural-network tomography. <i>Physical Review A</i> , 2020 , 102,	2.6	9
719	Experimental test of non-macrorealistic cat states in the cloud. <i>Npj Quantum Information</i> , 2020 , 6,	8.6	9
718	Quantifying the nonclassicality of pure dephasing. <i>Nature Communications</i> , 2019 , 10, 3794	17.4	16
717	Time-Domain Grating with a Periodically Driven Qutrit. <i>Physical Review Applied</i> , 2019 , 11,	4.3	10
716	Interaction of Mechanical Oscillators Mediated by the Exchange of Virtual Photon Pairs. <i>Physical Review Letters</i> , 2019 , 122, 030402	7.4	27
715	Quantum Interferometry with a g-Factor-Tunable Spin Qubit. <i>Physical Review Letters</i> , 2019 , 122, 207703	7.4	13
714	Resolution of gauge ambiguities in ultrastrong-coupling cavity quantum electrodynamics. <i>Nature Physics</i> , 2019 , 15, 803-808	16.2	67
713	Spin and orbital angular momenta of acoustic beams. <i>Physical Review B</i> , 2019 , 99,	3.3	50

712	Experimental demonstration of quantum walks with initial superposition states. <i>Npj Quantum Information</i> , 2019 , 5,	8.6	6
711	Multielectron Ground State Electroluminescence. <i>Physical Review Letters</i> , 2019 , 122, 190403	7.4	8
710	Nonlinear response in a noncentrosymmetric topological insulator. <i>Physical Review B</i> , 2019 , 99,	3.3	3
709	Active diffusion limited reactions. <i>Journal of Chemical Physics</i> , 2019 , 150, 154902	3.9	4
708	Scully-Lamb quantum laser model for parity-time-symmetric whispering-gallery microcavities: Gain saturation effects and nonreciprocity. <i>Physical Review A</i> , 2019 , 99,	2.6	31
707	Strongly correlated quantum walks with a 12-qubit superconducting processor. <i>Science</i> , 2019 , 364, 753-756,	39.3	89
706	Universality of eigenchannel structures in dimensional crossover. <i>Physical Review B</i> , 2019 , 99,	3.3	4
705	Parity-time symmetry and exceptional points in photonics. <i>Nature Materials</i> , 2019 , 18, 783-798	27	414
704	Broad-band negative refraction via simultaneous multi-electron transitions. <i>Journal of Physics Communications</i> , 2019 , 3, 015010	1.2	1
703	Disorder-Robust Entanglement Transport. <i>Physical Review Letters</i> , 2019 , 122, 066601	7.4	6
702	Speeding up a quantum refrigerator via counterdiabatic driving. <i>Physical Review B</i> , 2019 , 100,	3.3	20
701	Single-photon-triggered quantum chaos. <i>Physical Review A</i> , 2019 , 100,	2.6	6
700	Conversion of mechanical noise into correlated photon pairs: Dynamical Casimir effect from an incoherent mechanical drive. <i>Physical Review A</i> , 2019 , 100,	2.6	13
699	Klein-Gordon Representation of Acoustic Waves and Topological Origin of Surface Acoustic Modes. <i>Physical Review Letters</i> , 2019 , 123, 054301	7.4	19
698	Topological band theory for non-Hermitian systems from the Dirac equation. <i>Physical Review B</i> , 2019 , 100,	3.3	32
697	Modelling the ultra-strongly coupled spin-boson model with unphysical modes. <i>Nature Communications</i> , 2019 , 10, 3721	17.4	28
696	Proposal to test quantum wave-particle superposition on massive mechanical resonators. <i>Npj Quantum Information</i> , 2019 , 5,	8.6	10
695	Ultradense Tailored Vortex Pinning Arrays in Superconducting YBa ₂ Cu ₃ O _{7-δ} Thin Films Created by Focused He Ion Beam Irradiation for Fluxonics Applications. <i>ACS Applied Nano Materials</i> , 2019 , 2, 5108-5115	5.6	7

694	Many-body effects in twisted bilayer graphene at low twist angles. <i>Physical Review B</i> , 2019 , 100,	3.3	20
693	Fast and high-fidelity generation of steady-state entanglement using pulse modulation and parametric amplification. <i>Physical Review A</i> , 2019 , 100,	2.6	19
692	Chaotic synchronization of two optical cavity modes in optomechanical systems. <i>Scientific Reports</i> , 2019 , 9, 15874	4.9	3
691	Resource-efficient analyzer of Bell and Greenberger-Horne-Zeilinger states of multiphoton systems. <i>Physical Review A</i> , 2019 , 100,	2.6	11
690	Accessing the bath information in open quantum systems with the stochastic c-number Langevin equation method. <i>Physical Review A</i> , 2019 , 100,	2.6	2
689	Acoustic Radiation Force and Torque on Small Particles as Measures of the Canonical Momentum and Spin Densities. <i>Physical Review Letters</i> , 2019 , 123, 183901	7.4	29
688	Spin-Hall effect of light at a tilted polarizer. <i>Optics Letters</i> , 2019 , 44, 4781-4784	3	26
687	Quantum Bits with Josephson Junctions. <i>Springer Series in Materials Science</i> , 2019 , 703-741	0.9	16
686	Topological non-Hermitian origin of surface Maxwell waves. <i>Nature Communications</i> , 2019 , 10, 580	17.4	63
685	Second-Order Topological Phases in Non-Hermitian Systems. <i>Physical Review Letters</i> , 2019 , 122, 076801	7.4	186
684	Emission of photon pairs by mechanical stimulation of the squeezed vacuum. <i>Physical Review A</i> , 2019 , 100,	2.6	22
683	Two-photon blockade and photon-induced tunneling generated by squeezing. <i>Physical Review A</i> , 2019 , 100,	2.6	22
682	Quantum interference capacitor based on double-passage Landau-Zener-Stückelberg-Majorana interferometry. <i>Physical Review B</i> , 2019 , 100,	3.3	4
681	Vanishing and Revival of Resonance Raman Scattering. <i>Physical Review Letters</i> , 2019 , 123, 223202	7.4	22
680	Large Collective Lamb Shift of Two Distant Superconducting Artificial Atoms. <i>Physical Review Letters</i> , 2019 , 123, 233602	7.4	20
679	Quantum exceptional points of non-Hermitian Hamiltonians and Liouvillians: The effects of quantum jumps. <i>Physical Review A</i> , 2019 , 100,	2.6	71
678	Non-Hermitian Hamiltonians and no-go theorems in quantum information. <i>Physical Review A</i> , 2019 , 100,	2.6	28
677	Unconventional cavity optomechanics: Nonlinear control of phonons in the acoustic quantum vacuum. <i>Physical Review A</i> , 2019 , 100,	2.6	12

676	Ideal Quantum Nondemolition Readout of a Flux Qubit without Purcell Limitations. <i>Physical Review Applied</i> , 2019 , 12,	4.3	14
675	Securing quantum networking tasks with multipartite Einstein-Podolsky-Rosen steering. <i>Physical Review A</i> , 2019 , 99,	2.6	16
674	Transverse spin and surface waves in acoustic metamaterials. <i>Physical Review B</i> , 2019 , 99,	3.3	32
673	Ultrastrong coupling between light and matter. <i>Nature Reviews Physics</i> , 2019 , 1, 19-40	23.6	482
672	Holonomic surface codes for fault-tolerant quantum computation. <i>Physical Review A</i> , 2018 , 97,	2.6	22
671	Einstein-Podolsky-Rosen steering: Its geometric quantification and witness. <i>Physical Review A</i> , 2018 , 97,	2.6	18
670	Nonperturbative Dynamical Casimir Effect in Optomechanical Systems: Vacuum Casimir-Rabi Splittings. <i>Physical Review X</i> , 2018 , 8,	9.1	28
669	Exponentially Enhanced Light-Matter Interaction, Cooperativities, and Steady-State Entanglement Using Parametric Amplification. <i>Physical Review Letters</i> , 2018 , 120, 093601	7.4	92
668	Relativistic spin-orbit interactions of photons and electrons. <i>Physical Review A</i> , 2018 , 97,	2.6	18
667	Decoherence-Free Interaction between Giant Atoms in Waveguide Quantum Electrodynamics. <i>Physical Review Letters</i> , 2018 , 120, 140404	7.4	75
666	Reflective Amplification without Population Inversion from a Strongly Driven Superconducting Qubit. <i>Physical Review Letters</i> , 2018 , 120, 063603	7.4	19
665	Simulating Open Quantum Systems with Hamiltonian Ensembles and the Nonclassicality of the Dynamics. <i>Physical Review Letters</i> , 2018 , 120, 030403	7.4	30
664	A silicon-based single-electron interferometer coupled to a fermionic sea. <i>Physical Review B</i> , 2018 , 97,	3.3	16
663	Long-lasting quantum memories: Extending the coherence time of superconducting artificial atoms in the ultrastrong-coupling regime. <i>Physical Review A</i> , 2018 , 97,	2.6	25
662	Amplified and tunable transverse and longitudinal spin-photon coupling in hybrid circuit-QED. <i>Physical Review B</i> , 2018 , 97,	3.3	12
661	Hierarchy in temporal quantum correlations. <i>Physical Review A</i> , 2018 , 98,	2.6	8
660	A phonon laser operating at an exceptional point. <i>Nature Photonics</i> , 2018 , 12, 479-484	33.9	141
659	Hybrid Quantum System with Nitrogen-Vacancy Centers in Diamond Coupled to Surface-Phonon Polaritons in Piezomagnetic Superlattices. <i>Physical Review Applied</i> , 2018 , 10,	4.3	23

658	Two-color electromagnetically induced transparency via modulated coupling between a mechanical resonator and a qubit. <i>Physical Review A</i> , 2018 , 98,	2.6	17
657	Angular momenta, helicity, and other properties of dielectric-fiber and metallic-wire modes. <i>Optica</i> , 2018 , 5, 1016	8.6	43
656	Electromagnetic Helicity in Complex Media. <i>Physical Review Letters</i> , 2018 , 120, 243605	7.4	46
655	Quantum memory and gates using a Λ -type quantum emitter coupled to a chiral waveguide. <i>Physical Review A</i> , 2018 , 97,	2.6	40
654	A local and scalable lattice renormalization method for ballistic quantum computation. <i>Npj Quantum Information</i> , 2018 , 4,	8.6	3
653	Characterization of Topological States via Dual Multipartite Entanglement. <i>Physical Review Letters</i> , 2018 , 120, 250501	7.4	34
652	Nanoparticle sensing with a spinning resonator. <i>Optica</i> , 2018 , 5, 1424	8.6	50
651	Dissipation and thermal noise in hybrid quantum systems in the ultrastrong-coupling regime. <i>Physical Review A</i> , 2018 , 98,	2.6	25
650	Low-frequency spectroscopy for quantum multilevel systems. <i>Physical Review B</i> , 2018 , 98,	3.3	13
649	Cavity-Free Optical Isolators and Circulators Using a Chiral Cross-Kerr Nonlinearity. <i>Physical Review Letters</i> , 2018 , 121, 203602	7.4	66
648	Simple preparation of Bell and Greenberger-Horne-Zeilinger states using ultrastrong-coupling circuit QED. <i>Physical Review A</i> , 2018 , 98,	2.6	29
647	Nonreciprocal Phonon Laser. <i>Physical Review Applied</i> , 2018 , 10,	4.3	50
646	Majorana corner states in a two-dimensional magnetic topological insulator on a high-temperature superconductor. <i>Physical Review B</i> , 2018 , 98,	3.3	63
645	Photodetection probability in quantum systems with arbitrarily strong light-matter interaction. <i>Scientific Reports</i> , 2018 , 8, 17825	4.9	9
644	Janus Micromotors: High-Motility Visible Light-Driven Ag/AgCl Janus Micromotors (Small 48/2018). <i>Small</i> , 2018 , 14, 1870229	11	
643	Open quantum systems with local and collective incoherent processes: Efficient numerical simulations using permutational invariance. <i>Physical Review A</i> , 2018 , 98,	2.6	78
642	High-Motility Visible Light-Driven Ag/AgCl Janus Micromotors. <i>Small</i> , 2018 , 14, e1803613	11	42
641	Visible Light Actuated Efficient Exclusion Between Plasmonic Ag/AgCl Micromotors and Passive Beads. <i>Small</i> , 2018 , 14, e1802537	11	24

640	Lifetime of flatband states. <i>Physical Review B</i> , 2018 , 98,	3.3	13
639	Spin-valley half-metal in systems with Fermi surface nesting. <i>Physical Review B</i> , 2018 , 98,	3.3	6
638	Janus Micromotors: Visible Light Actuated Efficient Exclusion Between Plasmonic Ag/AgCl Micromotors and Passive Beads (Small 44/2018). <i>Small</i> , 2018 , 14, 1870203	11	0
637	Nonreciprocal Photon Blockade. <i>Physical Review Letters</i> , 2018 , 121, 153601	7.4	129
636	Efficient quantum simulation of photosynthetic light harvesting. <i>Npj Quantum Information</i> , 2018 , 4,	8.6	39
635	Hybrid Systems for the Generation of Nonclassical Mechanical States via Quadratic Interactions. <i>Physical Review Letters</i> , 2018 , 121, 123604	7.4	28
634	Simulating quantum dynamical phenomena using classical oscillators: Landau-Zener-Stückelberg-Majorana interferometry, latching modulation, and motional averaging. <i>Scientific Reports</i> , 2018 , 8, 12218	4.9	9
633	Optimizing co-operative multi-environment dynamics in a dark-state-enhanced photosynthetic heat engine. <i>Journal of Chemical Physics</i> , 2018 , 149, 084112	3.9	16
632	Electric-current-induced unidirectional propagation of surface plasmon-polaritons. <i>Optics Letters</i> , 2018 , 43, 963-966	3	46
631	Colloidal transport through trap arrays controlled by active microswimmers. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 264004	1.8	7
630	Lattice surgery on the Raussendorf lattice. <i>Quantum Science and Technology</i> , 2018 , 3, 035011	5.5	3
629	Resolution of superluminal signalling in non-perturbative cavity quantum electrodynamics. <i>Nature Communications</i> , 2018 , 9, 1924	17.4	30
628	Coherent transfer of electron spin correlations assisted by dephasing noise. <i>Nature Communications</i> , 2018 , 9, 2133	17.4	24
627	PT-symmetric circuit QED. <i>Physical Review A</i> , 2018 , 97,	2.6	56
626	Flying couplers above spinning resonators generate irreversible refraction. <i>Nature</i> , 2018 , 558, 569-572	50.4	86
625	Externally Controlled Magnetism and Band Gap in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2018 , 120, 266402	7.4	22
624	Plasmonic bio-sensing for the Fenna-Matthews-Olson complex. <i>Scientific Reports</i> , 2017 , 7, 39720	4.9	8
623	Magnetic field effects in electron systems with imperfect nesting. <i>Physical Review B</i> , 2017 , 95,	3.3	9

622	Coherent Phonon Rabi Oscillations with a High-Frequency Carbon Nanotube Phonon Cavity. <i>Nano Letters</i> , 2017 , 17, 915-921	11.5	24
621	Single-electron gap in the spectrum of twisted bilayer graphene. <i>Physical Review B</i> , 2017 , 95,	3.3	21
620	Edge Modes, Degeneracies, and Topological Numbers in Non-Hermitian Systems. <i>Physical Review Letters</i> , 2017 , 118, 040401	7.4	378
619	Controllable optical response by modifying the gain and loss of a mechanical resonator and cavity mode in an optomechanical system. <i>Physical Review A</i> , 2017 , 95,	2.6	49
618	Quantum feedback: Theory, experiments, and applications. <i>Physics Reports</i> , 2017 , 679, 1-60	27.7	105
617	High-order exceptional points in optomechanics. <i>Scientific Reports</i> , 2017 , 7, 3386	4.9	108
616	Theory and applications of free-electron vortex states. <i>Physics Reports</i> , 2017 , 690, 1-70	27.7	144
615	Pattern formation in vortex matter with pinning and frustrated intervortex interactions. <i>Physical Review B</i> , 2017 , 95,	3.3	9
614	Diffusion of active dimers in a Couette flow. <i>Soft Matter</i> , 2017 , 13, 2793-2799	3.6	5
613	Microwave photonics with superconducting quantum circuits. <i>Physics Reports</i> , 2017 , 718-719, 1-102	27.7	523
612	Hole Spin Resonance and Spin-Orbit Coupling in a Silicon Metal-Oxide-Semiconductor Field-Effect Transistor. <i>Physical Review Letters</i> , 2017 , 119, 156802	7.4	25
611	Feynman-diagrams approach to the quantum Rabi model for ultrastrong cavity QED: stimulated emission and reabsorption of virtual particles dressing a physical excitation. <i>New Journal of Physics</i> , 2017 , 19, 053010	2.9	42
610	Circuit quantum acoustodynamics with surface acoustic waves. <i>Nature Communications</i> , 2017 , 8, 975	17.4	99
609	Electrotunable artificial molecules based on van der Waals heterostructures. <i>Science Advances</i> , 2017 , 3, e1701699	14.3	37
608	Lattice surgery translation for quantum computation. <i>New Journal of Physics</i> , 2017 , 19, 013034	2.9	10
607	Quantum evolution in disordered transport. <i>Physical Review A</i> , 2017 , 96,	2.6	10
606	Spin-Valley Half-Metal as a Prospective Material for Spin Valleytronics. <i>Physical Review Letters</i> , 2017 , 119, 107601	7.4	16
605	Optical momentum and angular momentum in complex media: from the Abraham-Minkowski debate to unusual properties of surface plasmon-polaritons. <i>New Journal of Physics</i> , 2017 , 19, 123014	2.9	74

604	Optimization of lattice surgery is NP-hard. <i>Npj Quantum Information</i> , 2017 , 3,	8.6	13
603	Superradiance with local phase-breaking effects. <i>Physical Review A</i> , 2017 , 96,	2.6	31
602	Single-photon-driven high-order sideband transitions in an ultrastrongly coupled circuit-quantum-electrodynamics system. <i>Physical Review A</i> , 2017 , 96,	2.6	74
601	Heralded quantum controlled-phase gates with dissipative dynamics in macroscopically distant resonators. <i>Physical Review A</i> , 2017 , 96,	2.6	29
600	Spin-Momentum Locking in the Near Field of Metal Nanoparticles. <i>ACS Photonics</i> , 2017 , 4, 2242-2249	6.3	30
599	Experimental quantum forgery of quantum optical money. <i>Npj Quantum Information</i> , 2017 , 3,	8.6	25
598	Frequency conversion in ultrastrong cavity QED. <i>Scientific Reports</i> , 2017 , 7, 5313	4.9	38
597	Amplified Optomechanical Transduction of Virtual Radiation Pressure. <i>Physical Review Letters</i> , 2017 , 119, 053601	7.4	45
596	Optical Momentum, Spin, and Angular Momentum in Dispersive Media. <i>Physical Review Letters</i> , 2017 , 119, 073901	7.4	112
595	Quantum nonlinear optics without photons. <i>Physical Review A</i> , 2017 , 96,	2.6	45
594	Observing pure effects of counter-rotating terms without ultrastrong coupling: A single photon can simultaneously excite two qubits. <i>Physical Review A</i> , 2017 , 96,	2.6	23
593	Disorder-Induced Dephasing in Backscattering-Free Quantum Transport. <i>Physical Review Letters</i> , 2017 , 119, 176802	7.4	11
592	Exceptional Points in Random-Defect Phonon Lasers. <i>Physical Review Applied</i> , 2017 , 8,	4.3	72
591	Spatio-Temporal Steering for Testing Nonclassical Correlations in Quantum Networks. <i>Scientific Reports</i> , 2017 , 7, 3728	4.9	23
590	Entangling two oscillators with arbitrary asymmetric initial states. <i>Physical Review A</i> , 2017 , 95,	2.6	22
589	Deterministic quantum nonlinear optics with single atoms and virtual photons. <i>Physical Review A</i> , 2017 , 95,	2.6	78
588	Hybrid quantum device with a carbon nanotube and a flux qubit for dissipative quantum engineering. <i>Physical Review B</i> , 2017 , 95,	3.3	17
587	Position, spin, and orbital angular momentum of a relativistic electron. <i>Physical Review A</i> , 2017 , 96,	2.6	20

586	Qubit-Based Memcapacitors and Meminductors. <i>Physical Review Applied</i> , 2016 , 6,	4.3	19
585	Confined Catalytic Janus Swimmers in a Crowded Channel: Geometry-Driven Rectification Transients and Directional Locking. <i>Small</i> , 2016 , 12, 5882-5890	11	26
584	Tunable Majorana fermion from Landau quantization in 2D topological superconductors. <i>Physical Review B</i> , 2016 , 94,	3.3	12
583	Tunable multiphonon blockade in coupled nanomechanical resonators. <i>Physical Review A</i> , 2016 , 93,	2.6	59
582	Mode coupling and photon antibunching in a bimodal cavity containing a dipole quantum emitter. <i>Physical Review A</i> , 2016 , 93,	2.6	20
581	Comparison of the sensitivity to systematic errors between nonadiabatic non-Abelian geometric gates and their dynamical counterparts. <i>Physical Review A</i> , 2016 , 93,	2.6	33
580	Controllable single-photon transport between remote coupled-cavity arrays. <i>Physical Review A</i> , 2016 , 93,	2.6	32
579	Crosstalk-insensitive method for simultaneously coupling multiple pairs of resonators. <i>Physical Review A</i> , 2016 , 93,	2.6	11
578	Method for identifying electromagnetically induced transparency in a tunable circuit quantum electrodynamics system. <i>Physical Review A</i> , 2016 , 93,	2.6	35
577	Temporal steering and security of quantum key distribution with mutually unbiased bases against individual attacks. <i>Physical Review A</i> , 2016 , 93,	2.6	33
576	Polariton states in circuit QED for electromagnetically induced transparency. <i>Physical Review A</i> , 2016 , 93,	2.6	24
575	Method for observing robust and tunable phonon blockade in a nanomechanical resonator coupled to a charge qubit. <i>Physical Review A</i> , 2016 , 93,	2.6	57
574	Quantifying Non-Markovianity with Temporal Steering. <i>Physical Review Letters</i> , 2016 , 116, 020503	7.4	64
573	Ground State Electroluminescence. <i>Physical Review Letters</i> , 2016 , 116, 113601	7.4	52
572	One Photon Can Simultaneously Excite Two or More Atoms. <i>Physical Review Letters</i> , 2016 , 117, 043601	7.4	95
571	Electronic properties of graphene-based bilayer systems. <i>Physics Reports</i> , 2016 , 648, 1-104	27.7	208
570	Hybrid Quantum Device with Nitrogen-Vacancy Centers in Diamond Coupled to Carbon Nanotubes. <i>Physical Review Letters</i> , 2016 , 117, 015502	7.4	84
569	Anomalous time delays and quantum weak measurements in optical micro-resonators. <i>Nature Communications</i> , 2016 , 7, 13488	17.4	26

568	Microswimmers: Confined Catalytic Janus Swimmers in a Crowded Channel: Geometry-Driven Rectification Transients and Directional Locking (Small 42/2016). <i>Small</i> , 2016 , 12, 5912-5912	11	
567	Learning robust pulses for generating universal quantum gates. <i>Scientific Reports</i> , 2016 , 6, 36090	4.9	21
566	Floquet spectrum and driven conductance in Dirac materials: Effects of Landau-Zener-Stückelberg-Majorana interferometry. <i>Physical Review B</i> , 2016 , 94,	3.3	10
565	Photonic multipartite entanglement conversion using nonlocal operations. <i>Physical Review A</i> , 2016 , 94,	2.6	17
564	Generation of a macroscopic entangled coherent state using quantum memories in circuit QED. <i>Scientific Reports</i> , 2016 , 6, 32004	4.9	20
563	No-cloning of quantum steering. <i>Npj Quantum Information</i> , 2016 , 2,	8.6	29
562	Singularity of the time-energy uncertainty in adiabatic perturbation and cycloids on a Bloch sphere. <i>Scientific Reports</i> , 2016 , 6, 20824	4.9	4
561	Output field-quadrature measurements and squeezing in ultrastrong cavity-QED. <i>New Journal of Physics</i> , 2016 , 18, 123005	2.9	27
560	Giant Rydberg excitons: Probing quantum chaos. <i>Nature Materials</i> , 2016 , 15, 702-3	27	8
559	Gate-Sensing Coherent Charge Oscillations in a Silicon Field-Effect Transistor. <i>Nano Letters</i> , 2016 , 16, 1614-9	11.5	37
558	Microwave Photonics on a Chip: Superconducting Circuits as Artificial Atoms for Quantum Information Processing. <i>Lecture Notes in Physics</i> , 2016 , 461-476	0.8	1
557	Spin-Hall effect and circular birefringence of a uniaxial crystal plate. <i>Optica</i> , 2016 , 3, 1039	8.6	75
556	Full reconstruction of a 14-qubit state within four hours. <i>New Journal of Physics</i> , 2016 , 18, 083036	2.9	44
555	Entangling superconducting qubits in a multi-cavity system. <i>New Journal of Physics</i> , 2016 , 18, 013025	2.9	27
554	Majorana bound states in a disordered quantum dot chain. <i>New Journal of Physics</i> , 2016 , 18, 043033	2.9	25
553	Electric-field-induced interferometric resonance of a one-dimensional spin-orbit-coupled electron. <i>Scientific Reports</i> , 2016 , 6, 38851	4.9	6
552	Multiple-output microwave single-photon source using superconducting circuits with longitudinal and transverse couplings. <i>Physical Review A</i> , 2016 , 94,	2.6	21
551	Experimental temporal quantum steering. <i>Scientific Reports</i> , 2016 , 6, 38076	4.9	25

550	Superradiance with an ensemble of superconducting flux qubits. <i>Physical Review B</i> , 2016 , 94,	3.3	23
549	Temporal steering in four dimensions with applications to coupled qubits and magnetoreception. <i>Physical Review A</i> , 2016 , 94,	2.6	13
548	Memristive Sisyphus circuit for clock signal generation. <i>Scientific Reports</i> , 2016 , 6, 26155	4.9	6
547	Leggett-Garg inequality violations with a large ensemble of qubits. <i>Physical Review A</i> , 2016 , 94,	2.6	32
546	Optomechanically induced stochastic resonance and chaos transfer between optical fields. <i>Nature Photonics</i> , 2016 , 10, 399-405	33.9	123
545	Direct measurements of the extraordinary optical momentum and transverse spin-dependent force using a nano-cantilever. <i>Nature Physics</i> , 2016 , 12, 731-735	16.2	113
544	Metrology with PT-Symmetric Cavities: Enhanced Sensitivity near the PT-Phase Transition. <i>Physical Review Letters</i> , 2016 , 117, 110802	7.4	199
543	Transport spectroscopy of a spin-orbit-coupled spin to a quantum dot. <i>Physical Review B</i> , 2016 , 94,	3.3	5
542	Multistability and condensation of exciton-polaritons below threshold. <i>Physical Review B</i> , 2015 , 91,	3.3	26
541	Squeezed optomechanics with phase-matched amplification and dissipation. <i>Physical Review Letters</i> , 2015 , 114, 093602	7.4	182
540	Publisher's Note: Steady-state mechanical squeezing in an optomechanical system via Duffing nonlinearity [Phys. Rev. A 91, 013834 (2015)]. <i>Physical Review A</i> , 2015 , 91,	2.6	2
539	Optomechanically-induced transparency in parity-time-symmetric microresonators. <i>Scientific Reports</i> , 2015 , 5, 9663	4.9	210
538	Transverse and longitudinal angular momenta of light. <i>Physics Reports</i> , 2015 , 592, 1-38	27.7	396
537	Enhancement of mechanical effects of single photons in modulated two-mode optomechanics. <i>Physical Review A</i> , 2015 , 92,	2.6	42
536	Spacetime algebra as a powerful tool for electromagnetism. <i>Physics Reports</i> , 2015 , 589, 1-71	27.7	23
535	Circuit analog of quadratic optomechanics. <i>Physical Review A</i> , 2015 , 91,	2.6	41
534	OPTICS. Quantum spin Hall effect of light. <i>Science</i> , 2015 , 348, 1448-51	33.3	416
533	Delayed-response quantum back action in nanoelectromechanical systems. <i>Physical Review B</i> , 2015 , 91,	3.3	13

532	Statistical mixtures of states can be more quantum than their superpositions: Comparison of nonclassicality measures for single-qubit states. <i>Physical Review A</i> , 2015 , 91,	2.6	49
531	Robust manipulation of superconducting qubits in the presence of fluctuations. <i>Scientific Reports</i> , 2015 , 5, 7873	4.9	49
530	Observation of non-Hermitian degeneracies in a chaotic exciton-polariton billiard. <i>Nature</i> , 2015 , 526, 554-8	50.4	281
529	Coupling Two Distant Double Quantum Dots with a Microwave Resonator. <i>Nano Letters</i> , 2015 , 15, 6620-51.5	51.5	53
528	SpinâBrbit interactions of light. <i>Nature Photonics</i> , 2015 , 9, 796-808	33.9	1011
527	Tunable photon blockade in a hybrid system consisting of an optomechanical device coupled to a two-level system. <i>Physical Review A</i> , 2015 , 92,	2.6	94
526	Noise suppression of on-chip mechanical resonators by chaotic coherent feedback. <i>Physical Review A</i> , 2015 , 92,	2.6	8
525	Entanglement distribution over quantum code-division multiple-access networks. <i>Physical Review A</i> , 2015 , 92,	2.6	4
524	Certifying single-system steering for quantum-information processing. <i>Physical Review A</i> , 2015 , 92,	2.6	29
523	Increasing relative nonclassicality quantified by standard entanglement potentials by dissipation and unbalanced beam splitting. <i>Physical Review A</i> , 2015 , 92,	2.6	27
522	Multiphoton quantum Rabi oscillations in ultrastrong cavity QED. <i>Physical Review A</i> , 2015 , 92,	2.6	96
521	Quantum state tomography of large nuclear spins in a semiconductor quantum well: Optimal robustness against errors as quantified by condition numbers. <i>Physical Review B</i> , 2015 , 92,	3.3	19
520	Electronic spectrum of twisted bilayer graphene. <i>Physical Review B</i> , 2015 , 92,	3.3	72
519	Majorana fermions at the edge of superconducting islands. <i>Physical Review B</i> , 2015 , 92,	3.3	19
518	Coherent manipulation of a Majorana qubit by a mechanical resonator. <i>Physical Review B</i> , 2015 , 92,	3.3	12
517	Pseudochemotactic drifts of artificial microswimmers. <i>Physical Review E</i> , 2015 , 92, 012114	2.4	37
516	Energy transfer efficiency in the chromophore network strongly coupled to a vibrational mode. <i>Physical Review E</i> , 2015 , 92, 052720	2.4	15
515	Charge Number Dependence of the Dephasing Rates of a Graphene Double Quantum Dot in a Circuit QED Architecture. <i>Physical Review Letters</i> , 2015 , 115, 126804	7.4	45

514	Bistable Photon Emission from a Solid-State Single-Atom Laser. <i>Physical Review Letters</i> , 2015 , 115, 216802	3.4	30
513	Giant nonlinearity via breaking parity-time symmetry: A route to low-threshold phonon diodes. <i>Physical Review B</i> , 2015 , 92,	3.3	80
512	Effects of anisotropy and disorder on the conductivity of Weyl semimetals. <i>Physical Review B</i> , 2015 , 92,	3.3	6
511	Zhang et al. Reply. <i>Physical Review Letters</i> , 2015 , 115, 168902	7.4	1
510	Toroidal qubits: naturally-decoupled quiet artificial atoms. <i>Scientific Reports</i> , 2015 , 5, 16934	4.9	15
509	Using non-Markovian measures to evaluate quantum master equations for photosynthesis. <i>Scientific Reports</i> , 2015 , 5, 12753	4.9	43
508	Cavity quantum electrodynamics with ferromagnetic magnons in a small yttrium-iron-garnet sphere. <i>Npj Quantum Information</i> , 2015 , 1,	8.6	127
507	Dynamic creation of a topologically-ordered Hamiltonian using spin-pulse control in the Heisenberg model. <i>Scientific Reports</i> , 2015 , 5, 10076	4.9	4
506	Photon Devil's staircase: photon long-range repulsive interaction in lattices of coupled resonators with Rydberg atoms. <i>Scientific Reports</i> , 2015 , 5, 11510	4.9	13
505	Hidden modes in open disordered media: analytical, numerical, and experimental results. <i>New Journal of Physics</i> , 2015 , 17, 113009	2.9	1
504	Generating nonclassical photon states via longitudinal couplings between superconducting qubits and microwave fields. <i>Physical Review A</i> , 2015 , 91,	2.6	33
503	Non-Markovian Complexity in the Quantum-to-Classical Transition. <i>Scientific Reports</i> , 2015 , 5, 13353	4.9	40
502	Transverse Spin and Momentum in Two-Wave Interference. <i>Physical Review X</i> , 2015 , 5,	9.1	75
501	Steady-state mechanical squeezing in an optomechanical system via Duffing nonlinearity. <i>Physical Review A</i> , 2015 , 91,	2.6	129
500	Encoding a qubit with Majorana modes in superconducting circuits. <i>Scientific Reports</i> , 2014 , 4, 5535	4.9	32
499	Single-photon quadratic optomechanics. <i>Scientific Reports</i> , 2014 , 4, 6302	4.9	56
498	Extraordinary momentum and spin in evanescent waves. <i>Nature Communications</i> , 2014 , 5, 3300	17.4	386
497	Leggett-Garg inequalities. <i>Reports on Progress in Physics</i> , 2014 , 77, 016001	14.4	211

496	Entangling two macroscopic mechanical mirrors in a two-cavity optomechanical system. <i>Physical Review A</i> , 2014 , 89,	2.6	94
495	Electromagnetically induced transparency and Autler-Townes splitting in superconducting flux quantum circuits. <i>Physical Review A</i> , 2014 , 89,	2.6	68
494	Optomechanical-like coupling between superconducting resonators. <i>Physical Review A</i> , 2014 , 90,	2.6	55
493	State-dependent photon blockade via quantum-reservoir engineering. <i>Physical Review A</i> , 2014 , 90,	2.6	50
492	Quantum Fisher information as a signature of the superradiant quantum phase transition. <i>New Journal of Physics</i> , 2014 , 16, 063039	2.9	57
491	Optomechanical analog of two-color electromagnetically induced transparency: Photon transmission through an optomechanical device with a two-level system. <i>Physical Review A</i> , 2014 , 90,	2.6	128
490	Loss-induced suppression and revival of lasing. <i>Science</i> , 2014 , 346, 328-32	33.3	546
489	Spectrometric reconstruction of mechanical-motional states in optomechanics. <i>Physical Review A</i> , 2014 , 90,	2.6	15
488	Lamb-Dicke spectroscopy of atoms in a hollow-core photonic crystal fibre. <i>Nature Communications</i> , 2014 , 5, 4096	17.4	66
487	PT-symmetric phonon laser. <i>Physical Review Letters</i> , 2014 , 113, 053604	7.4	362
486	Temporal steering inequality. <i>Physical Review A</i> , 2014 , 89,	2.6	37
485	Classical field approach to quantum weak measurements. <i>Physical Review Letters</i> , 2014 , 112, 110407	7.4	24
484	Imaging the dynamics of free-electron Landau states. <i>Nature Communications</i> , 2014 , 5, 4586	17.4	67
483	Terahertz transverse-electric- and transverse-magnetic-polarized waves localized on graphene in photonic crystals. <i>Physical Review B</i> , 2014 , 90,	3.3	14
482	Magnetoelectric effects in local light-matter interactions. <i>Physical Review Letters</i> , 2014 , 113, 033601	7.4	79
481	Tunneling spectrum of a pinned vortex with a robust Majorana state. <i>Physical Review B</i> , 2014 , 89,	3.3	25
480	Inter-band phase fluctuations in macroscopic quantum tunneling of multi-gap superconducting Josephson junctions. <i>Physica C: Superconductivity and Its Applications</i> , 2014 , 504, 81-83	1.3	1
479	Enhanced interferometry using squeezed thermal states and even or odd states. <i>Physical Review A</i> , 2014 , 89,	2.6	42

478	Theory of macroscopic quantum tunneling with Josephson-Leggett collective excitations in multiband superconducting Josephson junctions. <i>Physical Review B</i> , 2014 , 89,	3.3	10
477	Density Functional Theory and Quantum Computation. <i>Advances in Chemical Physics</i> , 2014 , 137-150		
476	Transverse Relativistic Effects in Paraxial Wave Interference 2014 , 237-246		
475	Quantum phases in circuit QED with a superconducting qubit array. <i>Scientific Reports</i> , 2014 , 4, 4083	4.9	38
474	Controllable microwave three-wave mixing via a single three-level superconducting quantum circuit. <i>Scientific Reports</i> , 2014 , 4, 7289	4.9	31
473	How to test the “quantumness” of a quantum computer?. <i>Frontiers in Physics</i> , 2014 , 2,	3.9	17
472	Conservation of the spin and orbital angular momenta in electromagnetism. <i>New Journal of Physics</i> , 2014 , 16, 093037	2.9	98
471	Optimal two-qubit tomography based on local and global measurements: Maximal robustness against errors as described by condition numbers. <i>Physical Review A</i> , 2014 , 90,	2.6	32
470	Modulated electromechanics: large enhancements of nonlinearities. <i>New Journal of Physics</i> , 2014 , 16, 072001	2.9	25
469	Photoluminescence of high-density exciton-polariton condensates. <i>Physical Review B</i> , 2014 , 90,	3.3	9
468	Determining eigenvalues of a density matrix with minimal information in a single experimental setting. <i>Physical Review A</i> , 2014 , 89,	2.6	12
467	From blockade to transparency: Controllable photon transmission through a circuit-QED system. <i>Physical Review A</i> , 2014 , 89,	2.6	96
466	Dynamically-tunable colloidal band-pass and band-gap filters. <i>Journal of Applied Physics</i> , 2014 , 115, 134903	2.3	2
465	AA-stacked bilayer graphene in an applied electric field: Tunable antiferromagnetism and coexisting exciton order parameter. <i>Physical Review B</i> , 2014 , 90,	3.3	20
464	Entangled-state generation and Bell inequality violations in nanomechanical resonators. <i>Physical Review B</i> , 2014 , 90,	3.3	28
463	What is and what is not electromagnetically induced transparency in whispering-gallery microcavities. <i>Nature Communications</i> , 2014 , 5, 5082	17.4	303
462	Creating a tunable spin squeezing via a time-dependent collective atom-photon coupling. <i>Physical Review A</i> , 2014 , 89,	2.6	14
461	Amplitude and phase effects in Josephson qubits driven by a biharmonic electromagnetic field. <i>Physical Review B</i> , 2014 , 90,	3.3	17

460	Spin-orbit qubit on a multiferroic insulator in a superconducting resonator. <i>Physical Review B</i> , 2014 , 89,	3.3	8
459	Giant negative mobility of Janus particles in a corrugated channel. <i>Physical Review E</i> , 2014 , 89, 062115	2.4	51
458	Phase-space interference of states optically truncated by quantum scissors: Generation of distinct superpositions of qudit coherent states by displacement of vacuum. <i>Physical Review A</i> , 2014 , 89,	2.6	31
457	Single-photon router: Coherent control of multichannel scattering for single photons with quantum interferences. <i>Physical Review A</i> , 2014 , 89,	2.6	103
456	Superposition principle for nonlinear Josephson plasma waves in layered superconductors. <i>Physical Review B</i> , 2014 , 90,	3.3	2
455	Certainty in Heisenberg's uncertainty principle: Revisiting definitions for estimation errors and disturbance. <i>Physical Review A</i> , 2014 , 89,	2.6	48
454	Parity-time-symmetric whispering-gallery microcavities. <i>Nature Physics</i> , 2014 , 10, 394-398	16.2	1394
453	Quantum simulation. <i>Reviews of Modern Physics</i> , 2014 , 86, 153-185	40.5	1208
452	Oblique surface Josephson plasma waves in layered superconductors. <i>Physical Review B</i> , 2013 , 87,	3.3	6
451	Efficient tomography of quantum-optical Gaussian processes probed with a few coherent states. <i>Physical Review A</i> , 2013 , 88,	2.6	10
450	Quantum metamaterial without local control. <i>Physical Review B</i> , 2013 , 87,	3.3	11
449	Quantum memory using a hybrid circuit with flux qubits and nitrogen-vacancy centers. <i>Physical Review A</i> , 2013 , 88,	2.6	65
448	Radical-pair model of magnetoreception with spin-orbit coupling. <i>New Journal of Physics</i> , 2013 , 15, 083024	2.4	15
447	Photon blockade in quadratically coupled optomechanical systems. <i>Physical Review A</i> , 2013 , 88,	2.6	172
446	Quantum internet using code division multiple access. <i>Scientific Reports</i> , 2013 , 3, 2211	4.9	16
445	Longitudinal magnetization reversal in ferromagnets with Heisenberg exchange and strong single-ion anisotropy. <i>Physical Review B</i> , 2013 , 88,	3.3	15
444	Entanglement generation and quantum information transfer between spatially-separated qubits in different cavities. <i>New Journal of Physics</i> , 2013 , 15, 115003	2.9	28
443	Two-photon and three-photon blockades in driven nonlinear systems. <i>Physical Review A</i> , 2013 , 87,	2.6	109

442	Transverse relativistic effects in paraxial wave interference. <i>Journal of Optics (United Kingdom)</i> , 2013 , 15, 044003	1.7	1
441	Quantum biology. <i>Nature Physics</i> , 2013 , 9, 10-18	16.2	545
440	Dual electromagnetism: helicity, spin, momentum and angular momentum. <i>New Journal of Physics</i> , 2013 , 15, 033026	2.9	185
439	Vibrationally mediated transport in molecular transistors. <i>Physical Review B</i> , 2013 , 87,	3.3	22
438	Observation of the Larmor and Gouy rotations with electron vortex beams. <i>Physical Review Letters</i> , 2013 , 110, 093601	7.4	79
437	Non-Markovian quantum input-output networks. <i>Physical Review A</i> , 2013 , 87,	2.6	30
436	Hybrid quantum circuits: Superconducting circuits interacting with other quantum systems. <i>Reviews of Modern Physics</i> , 2013 , 85, 623-653	40.5	923
435	Metal-insulator transition and phase separation in doped AA-stacked graphene bilayer. <i>Physical Review B</i> , 2013 , 87,	3.3	30
434	Hybrid quantum circuit consisting of a superconducting flux qubit coupled to a spin ensemble and a transmission-line resonator. <i>Physical Review B</i> , 2013 , 87,	3.3	72
433	Full Numerical Simulations of Dynamical Response in Superconducting Single-Photon Detectors. <i>IEEE Transactions on Applied Superconductivity</i> , 2013 , 23, 2201105-2201105	1.8	10
432	Photoluminescence of a microcavity quantum dot system in the quantum strong-coupling regime. <i>Scientific Reports</i> , 2013 , 3, 1180	4.9	24
431	Nonclassical microwave radiation from the dynamical Casimir effect. <i>Physical Review A</i> , 2013 , 87,	2.6	60
430	QuTiP 2: A Python framework for the dynamics of open quantum systems. <i>Computer Physics Communications</i> , 2013 , 184, 1234-1240	4.2	845
429	Self-propelled Janus particles in a ratchet: numerical simulations. <i>Physical Review Letters</i> , 2013 , 110, 268301	7.4	173
428	Ballistic charge transport in graphene and light propagation in periodic dielectric structures with metamaterials: A comparative study. <i>Physical Review B</i> , 2013 , 87,	3.3	27
427	Fisher information under decoherence in Bloch representation. <i>Physical Review A</i> , 2013 , 87,	2.6	188
426	Photon trajectories, anomalous velocities and weak measurements: a classical interpretation. <i>New Journal of Physics</i> , 2013 , 15, 073022	2.9	70
425	Quantum Zeno and anti-Zeno effects measured by transition probabilities. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013 , 377, 1837-1843	2.3	3

424	Mie scattering and optical forces from evanescent fields: a complex-angle approach. <i>Optics Express</i> , 2013 , 21, 7082-95	3.3	38
423	Photon-mediated electron transport in hybrid circuit-QED. <i>Europhysics Letters</i> , 2013 , 103, 17005	1.6	35
422	Quantum anti-Zeno effect without wave function reduction. <i>Scientific Reports</i> , 2013 , 3,	4.9	24
421	Quantum-criticality-induced strong Kerr nonlinearities in optomechanical systems. <i>Scientific Reports</i> , 2013 , 3, 2943	4.9	115
420	Detection of a Charged Two-Level System by Using the Kondo and the Fano-Kondo Effects in Quantum Dots. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 04CJ03	1.4	
419	Phase separation of antiferromagnetic ground states in systems with imperfect nesting. <i>Physical Review B</i> , 2013 , 87,	3.3	20
418	Strongly anisotropic Dirac quasiparticles in irradiated graphene. <i>Physical Review B</i> , 2013 , 88,	3.3	36
417	Controlling a nanowire spin-orbit qubit via electric-dipole spin resonance. <i>Physical Review Letters</i> , 2013 , 111, 086805	7.4	52
416	Rerouting excitation transfers in the Fenna-Matthews-Olson complex. <i>Physical Review E</i> , 2013 , 88, 032120	4.4	19
415	Feedback-induced nonlinearity and superconducting on-chip quantum optics. <i>Physical Review A</i> , 2013 , 88,	2.6	6
414	Controlling single-photon transport in waveguides with finite cross section. <i>Physical Review A</i> , 2013 , 88,	2.6	44
413	Electrical current and coupled electron-nuclear spin dynamics in double quantum dots. <i>Physical Review B</i> , 2013 , 87,	3.3	14
412	Electronic phase separation in iron pnictides. <i>Physical Review B</i> , 2013 , 88,	3.3	20
411	Weak-value amplification of light deflection by a dark atomic ensemble. <i>Physical Review A</i> , 2013 , 88,	2.6	32
410	Massless collective excitations in frustrated multiband superconductors. <i>Physical Review B</i> , 2013 , 88,	3.3	15
409	Self-induced terahertz-wave transmissivity of waveguides with finite-length layered superconductors. <i>Physical Review B</i> , 2013 , 88,	3.3	4
408	Spectral analysis and identification of noises in quantum systems. <i>Physical Review A</i> , 2013 , 87,	2.6	16
407	Antiferromagnetic states and phase separation in doped AA-stacked graphene bilayers. <i>Physical Review B</i> , 2013 , 88,	3.3	20

406	Entanglement swapping and testing quantum steering into the past via collective decay. <i>Physical Review A</i> , 2013 , 88,	2.6	4
405	Feedback control of Rabi oscillations in circuit QED. <i>Physical Review A</i> , 2013 , 88,	2.6	28
404	QuTiP: An open-source Python framework for the dynamics of open quantum systems. <i>Computer Physics Communications</i> , 2012 , 183, 1760-1772	4.2	622
403	The transition from quantum Zeno to anti-Zeno effects for a qubit in a cavity by varying the cavity frequency. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 349-357	2.3	25
402	Witnessing Quantum Coherence: from solid-state to biological systems. <i>Scientific Reports</i> , 2012 , 2, 885	4.9	186
401	Two-qubit parametric amplifier: Large amplification of weak signals. <i>Physical Review A</i> , 2012 , 85,	2.6	13
400	Speed limits for quantum gates in multiqubit systems. <i>Physical Review A</i> , 2012 , 85,	2.6	44
399	Relativistic Hall effect. <i>Physical Review Letters</i> , 2012 , 108, 120403	7.4	43
398	Disorder-induced cavities, resonances, and lasing in randomly layered media. <i>Physical Review B</i> , 2012 , 86,	3.3	12
397	Detectable inertial effects on Brownian transport through narrow pores. <i>Europhysics Letters</i> , 2012 , 98, 50002	1.6	22
396	Brownian transport in corrugated channels with inertia. <i>Physical Review E</i> , 2012 , 86, 021112	2.4	42
395	Magnetic flux pinning in superconductors with hyperbolic-tessellation arrays of pinning sites. <i>Physical Review B</i> , 2012 , 85,	3.3	44
394	Instabilities of the AA-stacked graphene bilayer. <i>Physical Review Letters</i> , 2012 , 109, 206801	7.4	70
393	Phase separation of hydrogen atoms adsorbed on graphene and the smoothness of the graphene-graphane interface. <i>Physical Review B</i> , 2012 , 85,	3.3	16
392	Leggett-Garg inequality in electron interferometers. <i>Physical Review B</i> , 2012 , 86,	3.3	22
391	Photon-assisted Landau-Zener transition: Role of coherent superposition states. <i>Physical Review A</i> , 2012 , 86,	2.6	24
390	Spin squeezing under non-Markovian channels by the hierarchy equation method. <i>Physical Review A</i> , 2012 , 86,	2.6	40
389	Spatiotemporal vortex beams and angular momentum. <i>Physical Review A</i> , 2012 , 86,	2.6	69

388	Amplitude spectroscopy of two coupled qubits. <i>Physical Review B</i> , 2012 , 85,	3.3	27
387	Entanglement dynamics of two qubits in a common bath. <i>Physical Review A</i> , 2012 , 85,	2.6	104
386	Nonperturbative theory of weak pre- and post-selected measurements. <i>Physics Reports</i> , 2012 , 520, 43-137	3.7	205
385	Inverse Landau-Zener-Stückelberg problem for qubit-resonator systems. <i>Physical Review B</i> , 2012 , 85,	3.3	31
384	Macroscopic quantum tunneling and phase diffusion in a La_2CuO_4 intrinsic Josephson junction stack. <i>Physical Review B</i> , 2012 , 86,	3.3	9
383	Tunable quantum dots in monolayer graphene. <i>Physical Review B</i> , 2012 , 85,	3.3	36
382	Implementing general measurements on linear optical and solid-state qubits. <i>Physical Review A</i> , 2012 , 85,	2.6	18
381	Landau-Zener-Stückelberg interferometry of a single electron charge qubit. <i>Physical Review B</i> , 2012 , 86,	3.3	68
380	General non-Markovian dynamics of open quantum systems. <i>Physical Review Letters</i> , 2012 , 109, 170402	7.4	209
379	Colloquium: Stimulating uncertainty: Amplifying the quantum vacuum with superconducting circuits. <i>Reviews of Modern Physics</i> , 2012 , 84, 1-24	40.5	324
378	Conversion of terahertz wave polarization at the boundary of a layered superconductor due to the resonance excitation of oblique surface waves. <i>Physical Review Letters</i> , 2012 , 109, 027005	7.4	17
377	Quantum statistics of the collective excitations of an atomic ensemble inside a cavity. <i>Physical Review A</i> , 2012 , 85,	2.6	7
376	Transverse spin of a surface polariton. <i>Physical Review A</i> , 2012 , 85,	2.6	205
375	Heat cost of parametric generation of microwave squeezed states. <i>Physical Review A</i> , 2012 , 85,	2.6	10
374	Excitation spectrum for an inhomogeneously dipole-field-coupled superconducting qubit chain. <i>Physical Review A</i> , 2012 , 85,	2.6	16
373	Non-equilibrium Landauer transport model for Hawking radiation from a black hole. <i>New Journal of Physics</i> , 2012 , 14, 033013	2.9	8
372	Entanglement amplification via local weak measurements. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012 , 45, 415303	2	22
371	Selective darkening of degenerate transitions for implementing quantum controlled-NOT gates. <i>New Journal of Physics</i> , 2012 , 14, 073038	2.9	13

370	Two-qubit gate operations in superconducting circuits with strong coupling and weak anharmonicity. <i>New Journal of Physics</i> , 2012 , 14, 073041	2.9	15
369	Steady-State Solution for Dark States Using a Three-Level System in Coupled Quantum Dots. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 02BJ07	1.4	2
368	Strong coupling of a spin qubit to a superconducting stripline cavity. <i>Physical Review B</i> , 2012 , 86,	3.3	95
367	Squeezing as the source of inefficiency in the quantum Otto cycle. <i>Physical Review B</i> , 2012 , 86,	3.3	23
366	Confidence and backaction in the quantum filter equation. <i>Physical Review A</i> , 2012 , 86,	2.6	7
365	Feedback-controlled adiabatic quantum computation. <i>Physical Review A</i> , 2012 , 86,	2.6	8
364	Quantum algorithm for obtaining the energy spectrum of a physical system. <i>Physical Review A</i> , 2012 , 85,	2.6	17
363	Driven Brownian transport through arrays of symmetric obstacles. <i>Physical Review E</i> , 2012 , 85, 011101	2.4	37
362	Coherent control of double-dot molecules using Aharonov-Bohm magnetic flux. <i>Physical Review B</i> , 2012 , 86,	3.3	5
361	Electron Vortex Beams in a Magnetic Field: A New Twist on Landau Levels and Aharonov-Bohm States. <i>Physical Review X</i> , 2012 , 2,	9.1	72
360	Delocalized single-photon Dicke states and the Leggett-Garg inequality in solid state systems. <i>Scientific Reports</i> , 2012 , 2, 869	4.9	12
359	Modeling the Q-cycle mechanism of transmembrane energy conversion. <i>Physical Biology</i> , 2012 , 9, 016013	3	6
358	Quantum technologies: an old new story. <i>Physics World</i> , 2012 , 25, 16-17	0.5	20
357	Anderson Localization of Light in Layered Dielectric Structures. <i>Series in Optics and Optoelectronics</i> , 2012 , 55-86		1
356	Steady-State Solution for Dark States Using a Three-Level System in Coupled Quantum Dots. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 02BJ07	1.4	5
355	A qubit strongly coupled to a resonant cavity: asymmetry of the spontaneous emission spectrum beyond the rotating wave approximation. <i>New Journal of Physics</i> , 2011 , 13, 073002	2.9	51
354	Spatial Landau-Zener-Stückelberg interference in spinor Bose-Einstein condensates. <i>Physical Review A</i> , 2011 , 83,	2.6	19
353	Natural and artificial atoms for quantum computation. <i>Reports on Progress in Physics</i> , 2011 , 74, 104401	14.4	447

352	Dirac gap-induced graphene quantum dot in an electrostatic potential. <i>Physical Review B</i> , 2011 , 83,	3.3	40
351	Quantum effects in energy and charge transfer in an artificial photosynthetic complex. <i>Journal of Chemical Physics</i> , 2011 , 134, 244103	3.9	39
350	Quantum spin squeezing. <i>Physics Reports</i> , 2011 , 509, 89-165	27.7	405
349	Relativistic electron vortex beams: angular momentum and spin-orbit interaction. <i>Physical Review Letters</i> , 2011 , 107, 174802	7.4	140
348	Observation of the dynamical Casimir effect in a superconducting circuit. <i>Nature</i> , 2011 , 479, 376-9	50.4	598
347	Atomic physics and quantum optics using superconducting circuits. <i>Nature</i> , 2011 , 474, 589-97	50.4	875
346	Surface plasmons in a metal nanowire coupled to colloidal quantum dots: Scattering properties and quantum entanglement. <i>Physical Review B</i> , 2011 , 84,	3.3	103
345	Electronic properties of mesoscopic graphene structures: Charge confinement and control of spin and charge transport. <i>Physics Reports</i> , 2011 , 503, 77-114	27.7	302
344	Electrostatic models of electron-driven proton transfer across a lipid membrane. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 234101	1.8	13
343	Indirect quantum tomography of quadratic Hamiltonians. <i>New Journal of Physics</i> , 2011 , 13, 013019	2.9	48
342	Voltage-driven quantum oscillations of conductance in graphene. <i>Europhysics Letters</i> , 2011 , 96, 67009	1.6	7
341	Artificial photosynthetic reaction centers coupled to light-harvesting antennas. <i>Physical Review E</i> , 2011 , 84, 061138	2.4	16
340	Multistability of electromagnetically induced transparency in atom-assisted optomechanical cavities. <i>Physical Review A</i> , 2011 , 83,	2.6	83
339	Quantum algorithm for simulating the dynamics of an open quantum system. <i>Physical Review A</i> , 2011 , 83,	2.6	45
338	Sudden vanishing and reappearance of nonclassical effects: General occurrence of finite-time decays and periodic vanishings of nonclassicality and entanglement witnesses. <i>Physical Review A</i> , 2011 , 83,	2.6	43
337	Quantum noise in photothermal cooling. <i>Physical Review A</i> , 2011 , 83,	2.6	42
336	Characterizing optical chirality. <i>Physical Review A</i> , 2011 , 83,	2.6	162
335	Macrorealism inequality for optoelectromechanical systems. <i>Physical Review B</i> , 2011 , 84,	3.3	35

334	Majorana fermions in pinned vortices. <i>Physical Review B</i> , 2011 , 84,	3.3	37
333	Influence of intrinsic electronic properties on light transmission through subwavelength holes on gold and MgB2 thin films. <i>Physical Review B</i> , 2011 , 84,	3.3	2
332	Geometric stochastic resonance in a double cavity. <i>Physical Review E</i> , 2011 , 84, 011109	2.4	26
331	Testing quantum contextuality with macroscopic superconducting circuits. <i>Physical Review B</i> , 2010 , 81,	3.3	8
330	Model of coherent emission from disordered arrays of driven Josephson vortices. <i>Physical Review B</i> , 2010 , 81,	3.3	8
329	Magnetic vortex as a ground state for micron-scale antiferromagnetic samples. <i>Physical Review B</i> , 2010 , 81,	3.3	20
328	Unified single-photon and single-electron counting statistics: From cavity QED to electron transport. <i>Physical Review A</i> , 2010 , 82,	2.6	12
327	Measurement-based quantum phase estimation algorithm for finding eigenvalues of non-unitary matrices. <i>Physical Review A</i> , 2010 , 82,	2.6	14
326	Quantum dynamics of spatial decoherence of two atoms in a ring cavity. <i>Physical Review A</i> , 2010 , 82,	2.6	12
325	Control-free control: Manipulating a quantum system using only a limited set of measurements. <i>Physical Review A</i> , 2010 , 82,	2.6	35
324	Dynamical Casimir effect in superconducting microwave circuits. <i>Physical Review A</i> , 2010 , 82,	2.6	125
323	Arbitrary control of coherent dynamics for distant qubits in a quantum network. <i>Physical Review A</i> , 2010 , 82,	2.6	47
322	Quantum phase measurement and Gauss sum factorization of large integers in a superconducting circuit. <i>Physical Review A</i> , 2010 , 82,	2.6	13
321	Temperature dependence of the Casimir force for bulk lossy media. <i>Physical Review A</i> , 2010 , 82,	2.6	2
320	Testing nonclassicality in multimode fields: A unified derivation of classical inequalities. <i>Physical Review A</i> , 2010 , 82,	2.6	136
319	Tunable electromagnetically induced transparency and absorption with dressed superconducting qubits. <i>Physical Review A</i> , 2010 , 81,	2.6	86
318	Robust and scalable optical one-way quantum computation. <i>Physical Review A</i> , 2010 , 81,	2.6	7
317	Controlling the transport of single photons by tuning the frequency of either one or two cavities in an array of coupled cavities. <i>Physical Review A</i> , 2010 , 81,	2.6	109

316	Surface Josephson plasma waves in layered superconductors above the plasma frequency: evidence for a negative index of refraction. <i>Physical Review Letters</i> , 2010 , 104, 187003	7.4	30
315	Spin oscillations in antiferromagnetic NiO triggered by circularly polarized light. <i>Physical Review Letters</i> , 2010 , 105, 077402	7.4	173
314	Enhancing the critical current in quasiperiodic pinning arrays below and above the matching magnetic flux. <i>Physical Review B</i> , 2010 , 82,	3.3	34
313	Asymmetric long josephson junction acting as a ratchet for a quantum field. <i>Physical Review Letters</i> , 2010 , 104, 190602	7.4	9
312	Exact wave functions for an electron on a graphene triangular quantum dot. <i>Physical Review B</i> , 2010 , 81,	3.3	39
311	Tunable electronic transport and unidirectional quantum wires in graphene subjected to electric and magnetic fields. <i>Physical Review B</i> , 2010 , 81,	3.3	42
310	Dynamics and quantum Zeno effect for a qubit in either a low- or high-frequency bath beyond the rotating-wave approximation. <i>Physical Review A</i> , 2010 , 82,	2.6	66
309	Terahertz Josephson plasma waves in layered superconductors: spectrum, generation, nonlinear and quantum phenomena. <i>Reports on Progress in Physics</i> , 2010 , 73, 026501	14.4	119
308	Phase gate of one qubit simultaneously controlling n qubits in a cavity. <i>Physical Review A</i> , 2010 , 81,	2.6	62
307	Multiqubit tunable phase gate of one qubit simultaneously controlling n qubits in a cavity. <i>Physical Review A</i> , 2010 , 82,	2.6	44
306	Quantum emulation of a spin system with topologically protected ground states using superconducting quantum circuits. <i>Physical Review B</i> , 2010 , 81,	3.3	64
305	Using superconducting qubit circuits to engineer exotic lattice systems. <i>Physical Review A</i> , 2010 , 82,	2.6	61
304	Qubit-induced phonon blockade as a signature of quantum behavior in nanomechanical resonators. <i>Physical Review A</i> , 2010 , 82,	2.6	111
303	Sudden vanishing of spin squeezing under decoherence. <i>Physical Review A</i> , 2010 , 81,	2.6	73
302	Qubit-oscillator systems in the ultrastrong-coupling regime and their potential for preparing nonclassical states. <i>Physical Review A</i> , 2010 , 81,	2.6	244
301	Scalable quantum computation via local control of only two qubits. <i>Physical Review A</i> , 2010 , 81,	2.6	66
300	Distinguishing quantum and classical transport through nanostructures. <i>Physical Review Letters</i> , 2010 , 105, 176801	7.4	57
299	Equivalence condition for the canonical and microcanonical ensembles in coupled spin systems. <i>Physical Review E</i> , 2010 , 82, 041127	2.4	13

298	Layered superconductors as negative-refractive-index metamaterials. <i>Physical Review B</i> , 2010 , 81,	3.3	52
297	Geometric stochastic resonance. <i>Physical Review Letters</i> , 2010 , 104, 020601	7.4	84
296	Graphene quantum dots formed by a spatial modulation of the Dirac gap. <i>Applied Physics Letters</i> , 2010 , 97, 243106	3.4	37
295	Self-induced tunable transparency in layered superconductors. <i>Physical Review B</i> , 2010 , 82,	3.3	10
294	Dynamics of interacting qubits in a strong alternating electromagnetic field. <i>Physics of the Solid State</i> , 2010 , 52, 2281-2286	0.8	3
293	Landau-Zener-Stückelberg interferometry. <i>Physics Reports</i> , 2010 , 492, 1-30	27.7	508
292	Noise-spectroscopy of multiqubit systems: Determining all their parameters by applying an external classical noise. <i>Chemical Physics</i> , 2010 , 375, 180-183	2.3	6
291	Information about the state of a charge qubit gained by a weakly coupled quantum point contact. <i>Physica Scripta</i> , 2009 , T137, 014005	2.6	15
290	Topological quantum phase transition in the extended Kitaev spin model. <i>Physical Review B</i> , 2009 , 79,	3.3	21
289	Resonance effects due to the excitation of surface Josephson plasma waves in layered superconductors. <i>Physical Review B</i> , 2009 , 79,	3.3	16
288	Drastic change of the Casimir force at the metal-insulator transition. <i>Physical Review B</i> , 2009 , 80,	3.3	13
287	Density functional theory and quantum computation. <i>Physical Review B</i> , 2009 , 79,	3.3	8
286	Coupling strength estimation for spin chains despite restricted access. <i>Physical Review A</i> , 2009 , 79,	2.6	74
285	Cooling and squeezing the fluctuations of a nanomechanical beam by indirect quantum feedback control. <i>Physical Review A</i> , 2009 , 79,	2.6	59
284	Universal existence of exact quantum state transmissions in interacting media. <i>Physical Review A</i> , 2009 , 80,	2.6	23
283	Kinetics of proton pumping in cytochrome c oxidase. <i>Journal of Chemical Physics</i> , 2009 , 130, 235105	3.9	15
282	Detecting Bose-Einstein condensation of exciton-polaritons via electron transport. <i>Physical Review B</i> , 2009 , 80,	3.3	1
281	Cooling a mechanical resonator via coupling to a tunable double quantum dot. <i>Physical Review B</i> , 2009 , 79,	3.3	36

280	Shape and wobbling wave excitations in Josephson junctions: Exact solutions of the (2+1)-dimensional sine-Gordon model. <i>Physical Review B</i> , 2009 , 80,	3.3	18
279	Detecting non-Markovian plasmonic band gaps in quantum dots using electron transport. <i>Physical Review B</i> , 2009 , 79,	3.3	13
278	Resonant electromagnetic emission from intrinsic Josephson-junction stacks in a magnetic field. <i>Physical Review B</i> , 2009 , 79,	3.3	19
277	Diffusion-controlled generation of a proton-motive force across a biomembrane. <i>Physical Review E</i> , 2009 , 80, 011916	2.4	9
276	Efficient quantum algorithm for preparing molecular-system-like states on a quantum computer. <i>Physical Review A</i> , 2009 , 79,	2.6	31
275	Bell's experiment with intra- and inter-pair entanglement: Single-particle mode entanglement as a case study. <i>Physical Review A</i> , 2009 , 80,	2.6	14
274	Effective Hamiltonian approach to the Kerr nonlinearity in an optomechanical system. <i>Physical Review A</i> , 2009 , 80,	2.6	76
273	Cooling a magnetic resonance force microscope via the dynamical back action of nuclear spins. <i>Physical Review B</i> , 2009 , 80,	3.3	12
272	Quantum Zeno switch for single-photon coherent transport. <i>Physical Review A</i> , 2009 , 80,	2.6	97
271	Weak and strong measurement of a qubit using a switching-based detector. <i>Physical Review A</i> , 2009 , 79,	2.6	28
270	Perfect function transfer and interference effects in interacting boson lattices. <i>Physical Review A</i> , 2009 , 80,	2.6	29
269	Physics. Quantum football. <i>Science</i> , 2009 , 325, 689-90	33.3	15
268	The information about the state of a qubit gained by a weakly coupled detector. <i>New Journal of Physics</i> , 2009 , 11, 083017	2.9	25
267	Single-artificial-atom lasing using a voltage-biased superconducting charge qubit. <i>New Journal of Physics</i> , 2009 , 11, 023030	2.9	44
266	Modeling light-driven proton pumps in artificial photosynthetic reaction centers. <i>Journal of Chemical Physics</i> , 2009 , 131, 035102	3.9	20
265	Quantum metamaterials: Electromagnetic waves in Josephson qubit lines. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 955-960	1.3	18
264	Colloquium: The physics of Maxwell's demon and information. <i>Reviews of Modern Physics</i> , 2009 , 81, 1-2340.5	368	
263	Quantum chaos and critical behavior on a chip. <i>Physical Review B</i> , 2009 , 80,	3.3	43

262	High-Efficiency Energy Conversion in a Molecular Triad Connected to Conducting Leads. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 21218-21224	3.8	24
261	Noise-induced quantum coherence and persistent Rabi oscillations in a Josephson flux qubit. <i>Physical Review B</i> , 2009 , 80,	3.3	12
260	Electronic properties of armchair graphene nanoribbons. <i>Physical Review B</i> , 2009 , 79,	3.3	48
259	Transport and localization in periodic and disordered graphene superlattices. <i>Physical Review B</i> , 2009 , 79,	3.3	89
258	Generating stationary entangled states in superconducting qubits. <i>Physical Review A</i> , 2009 , 79,	2.6	30
257	Efficient quantum circuits for one-way quantum computing. <i>Physical Review Letters</i> , 2009 , 102, 100501	7.4	44
256	Quantum simulators. <i>Science</i> , 2009 , 326, 108-11	33.3	582
255	Dynamical Casimir effect in a superconducting coplanar waveguide. <i>Physical Review Letters</i> , 2009 , 103, 147003	7.4	192
254	Quantum metamaterials: Electromagnetic waves in a Josephson qubit line. <i>Physical Review B</i> , 2008 , 77,	3.3	110
253	Colloquium: Unusual resonators: Plasmonics, metamaterials, and random media. <i>Reviews of Modern Physics</i> , 2008 , 80, 1201-1213	40.5	189
252	Josephson vortices as flexible waveguides for terahertz waves. <i>Journal of Applied Physics</i> , 2008 , 104, 064507	2.5	8
251	Nonlinear electrodynamics in layered superconductors. <i>Physical Review B</i> , 2008 , 78,	3.3	19
250	Fully connected network of superconducting qubits in a cavity. <i>New Journal of Physics</i> , 2008 , 10, 113020	2.9	42
249	Quantum entanglement via two-qubit quantum Zeno dynamics. <i>Physical Review A</i> , 2008 , 77,	2.6	76
248	Controllable scattering of a single photon inside a one-dimensional resonator waveguide. <i>Physical Review Letters</i> , 2008 , 101, 100501	7.4	366
247	Voltage-driven quantum oscillations in graphene. <i>New Journal of Physics</i> , 2008 , 10, 053024	2.9	33
246	Distinguishing quantum from classical oscillations in a driven phase qubit. <i>New Journal of Physics</i> , 2008 , 10, 073026	2.9	18
245	Electron-beam instability in left-handed media. <i>Physical Review Letters</i> , 2008 , 100, 244803	7.4	22

244	Controlled generation of squeezed states of microwave radiation in a superconducting resonant circuit. <i>Physical Review Letters</i> , 2008 , 101, 253602	7.4	57
243	Hysteretic jumps in the response of layered superconductors to electromagnetic fields. <i>Physical Review B</i> , 2008 , 78,	3.3	7
242	Entanglement purification without controlled-NOT gates by using the natural dynamics of spin chains. <i>Physical Review A</i> , 2008 , 78,	2.6	18
241	Anomalous temperature dependence of the Casimir force for thin metal films. <i>Physical Review Letters</i> , 2008 , 101, 096803	7.4	15
240	Controllable coherent population transfers in superconducting qubits for quantum computing. <i>Physical Review Letters</i> , 2008 , 100, 113601	7.4	90
239	Interqubit coupling mediated by a high-excitation-energy quantum object. <i>Physical Review B</i> , 2008 , 77,	3.3	71
238	Förster mechanism of electron-driven proton pumps. <i>Physical Review E</i> , 2008 , 77, 011919	2.4	14
237	Quantum supercavity with atomic mirrors. <i>Physical Review A</i> , 2008 , 78,	2.6	126
236	Efficient purification protocols using iSWAP gates in solid-state qubits. <i>Physical Review A</i> , 2008 , 78,	2.6	23
235	Chirality tunneling and quantum dynamics for domain walls in mesoscopic ferromagnets. <i>Physical Review B</i> , 2008 , 77,	3.3	15
234	Quantum electrodynamics and photon-assisted tunneling in long Josephson junctions. <i>Physical Review B</i> , 2008 , 78,	3.3	7
233	Cavity optomechanical coupling assisted by an atomic gas. <i>Physical Review A</i> , 2008 , 78,	2.6	146
232	Mechanism for phase separation in cuprates and related multiband systems. <i>Physical Review B</i> , 2008 , 77,	3.3	7
231	Enhancing the conductance of a two-electron nanomechanical oscillator. <i>Physical Review B</i> , 2008 , 77,	3.3	10
230	Pseudo-Rabi oscillations in superconducting flux qubits in the classical regime. <i>Physical Review B</i> , 2008 , 78,	3.3	11
229	Surface plasma waves across the layers of intrinsic Josephson junctions. <i>Physical Review B</i> , 2008 , 78,	3.3	18
228	Nonlocal macroscopic quantum tunneling and quantum terahertz electrodynamics in layered superconductors: Theory and simulations. <i>Physical Review B</i> , 2008 , 77,	3.3	16
227	Detecting quantum-coherent nanomechanical oscillations using the current-noise spectrum of a double quantum dot. <i>Physical Review B</i> , 2008 , 78,	3.3	33

226	Proton transport and torque generation in rotary biomotors. <i>Physical Review E</i> , 2008 , 78, 031921	2.4	8
225	Spectroscopy of superconducting charge qubits coupled by a Josephson inductance. <i>Physical Review B</i> , 2008 , 77,	3.3	24
224	Shape waves in 2D Josephson junctions: exact solutions and time dilation. <i>Physical Review Letters</i> , 2008 , 101, 127002	7.4	18
223	Simultaneous cooling of an artificial atom and its neighboring quantum system. <i>Physical Review Letters</i> , 2008 , 100, 047001	7.4	67
222	Lower limit on the achievable temperature in resonator-based sideband cooling. <i>Physical Review B</i> , 2008 , 78,	3.3	43
221	Crossing lattice vortex pump. <i>Physica C: Superconductivity and Its Applications</i> , 2008 , 468, 640-643	1.3	
220	Simulation of logic gate using d-dot \hat{B} . <i>Physica C: Superconductivity and Its Applications</i> , 2008 , 468, 769-772,	1.3	4
219	Resonant energy transfer in electron-driven proton pumps. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 398-401		1
218	Nonlinear Josephson plasma waves in slabs of layered superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2008 , 468, 499-502	1.3	5
217	Time-dependent Ginzburgâ€”Landau numerical simulation of logic gates using superconducting composite structure d-dots. <i>Physica C: Superconductivity and Its Applications</i> , 2008 , 468, 1910-1912	1.3	1
216	Quantum information processing using frequency control of impurity spins in diamond. <i>Physical Review B</i> , 2007 , 76,	3.3	13
215	Quantum electromechanics: Quantum tunneling near resonance and qubits from buckling nanoscale bars. <i>Physical Review B</i> , 2007 , 75,	3.3	30
214	Why macroscopic quantum tunnelling in Josephson junctions differs from tunnelling of a quantum particle. <i>Europhysics Letters</i> , 2007 , 80, 17009	1.6	16
213	Persistent single-photon production by tunable on-chip micromaser with a superconducting quantum circuit. <i>Physical Review B</i> , 2007 , 75,	3.3	73
212	Variable-frequency-controlled coupling in charge qubit circuits: Effects of microwave field on qubit-state readout. <i>Physical Review A</i> , 2007 , 76,	2.6	20
211	Semiclassical dynamics of electron wave packet states with phase vortices. <i>Physical Review Letters</i> , 2007 , 99, 190404	7.4	240
210	Ratchet without spatial asymmetry: Controlling the motion of magnetic flux quanta using time-asymmetric drives. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 460-462, 1266-1267	1.3	3
209	Generation of Macroscopic Entangled States in Coupled Superconducting Phase Qubits. <i>Journal of the Physical Society of Japan</i> , 2007 , 76, 054802	1.5	21

208	Cooling a micromechanical beam by coupling it to a transmission line. <i>Physical Review B</i> , 2007 , 76,	3.3	52
207	Low-decoherence flux qubit. <i>Physical Review B</i> , 2007 , 75,	3.3	146
206	Two-mode squeezed states and entangled states of two mechanical resonators. <i>Physical Review B</i> , 2007 , 76,	3.3	78
205	Observing quantum nonlocality in the entanglement between modes of massive particles. <i>Physical Review A</i> , 2007 , 75,	2.6	22
204	Enhancement of entanglement transfer in a spin chain by phase-shift control. <i>Physical Review A</i> , 2007 , 75,	2.6	48
203	Switchable coupling for superconducting qubits using double resonance in the presence of crosstalk. <i>Physical Review B</i> , 2007 , 76,	3.3	22
202	Detecting mode entanglement: The role of coherent states, superselection rules, and particle statistics. <i>Physical Review A</i> , 2007 , 76,	2.6	22
201	Nonlinear nanodevices using magnetic flux quanta. <i>Physical Review Letters</i> , 2007 , 99, 207003	7.4	69
200	Superconducting qubits can be coupled and addressed as trapped ions. <i>Physical Review B</i> , 2007 , 76,	3.3	51
199	Controlled terahertz frequency response and transparency of Josephson chains and superconducting multilayers. <i>Physical Review B</i> , 2007 , 75,	3.3	31
198	Modeling an adiabatic quantum computer via an exact map to a gas of particles. <i>Physical Review Letters</i> , 2007 , 98, 120503	7.4	20
197	Negative differential resistivity in superconductors with periodic arrays of pinning sites. <i>Physical Review B</i> , 2007 , 75,	3.3	34
196	Layered superconductors as nonlinear waveguides for terahertz waves. <i>Physical Review B</i> , 2007 , 75,	3.3	32
195	Excitation of surface Josephson plasma waves in layered superconductors. <i>Physical Review B</i> , 2007 , 76,	3.3	23
194	Quantum terahertz electrodynamics and macroscopic quantum tunneling in layered superconductors. <i>Physical Review Letters</i> , 2007 , 98, 077002	7.4	53
193	Left-handed interfaces for electromagnetic surface waves. <i>Physical Review Letters</i> , 2007 , 98, 073901	7.4	59
192	Efficient one-step generation of large cluster states with solid-state circuits. <i>Physical Review A</i> , 2007 , 75,	2.6	66
191	Switchable coupling between charge and flux qubits. <i>Physical Review B</i> , 2007 , 76,	3.3	15

190	Control of photon propagation via electromagnetically induced transparency in lossless media. <i>Physical Review A</i> , 2007 , 75,	2.6	32
189	Quantum thermodynamic cycles and quantum heat engines. <i>Physical Review E</i> , 2007 , 76, 031105	2.4	425
188	Two-level systems driven by large-amplitude fields. <i>Physical Review A</i> , 2007 , 75,	2.6	178
187	Modelling chemical reactions using semiconductor quantum dots. <i>Europhysics Letters</i> , 2007 , 80, 67008	1.6	27
186	Driven binary mixtures: Clustering and giant diffusion. <i>Europhysics Letters</i> , 2006 , 73, 513-519	1.6	9
185	Melting of the vortex-solid in irradiated Bi2Sr2CaCu2O8+ δ single crystals in tilted magnetic fields. <i>New Journal of Physics</i> , 2006 , 8, 226-226	2.9	7
184	Broad distribution of stick-slip events in Slowly Sheared Granular Media: Table-top production of a Gutenberg-Richter-like distribution. <i>Europhysics Letters</i> , 2006 , 74, 1116-1122	1.6	24
183	Nonuniform self-organized dynamical states in superconductors with periodic pinning. <i>Physical Review Letters</i> , 2006 , 96, 127004	7.4	29
182	Switchable resonant coupling of flux qubits. <i>Physical Review B</i> , 2006 , 74,	3.3	56
181	Achieving optimal rectification using underdamped rocked ratchets. <i>Physical Review E</i> , 2006 , 73, 021102	2.4	30
180	Applied physics. Helical spin order on the move. <i>Science</i> , 2006 , 311, 344-5	33.3	5
179	Hybridized solid-state qubit in the charge-flux regime. <i>Physical Review B</i> , 2006 , 73,	3.3	21
178	Decoherence in a scalable adiabatic quantum computer. <i>Physical Review A</i> , 2006 , 74,	2.6	58
177	Scalable superconducting qubit circuits using dressed states. <i>Physical Review A</i> , 2006 , 74,	2.6	85
176	Quantum two-level systems in Josephson junctions as naturally formed qubits. <i>Physical Review Letters</i> , 2006 , 97, 077001	7.4	92
175	Controllable coupling between flux qubits. <i>Physical Review Letters</i> , 2006 , 96, 067003	7.4	119
174	Generation and control of Greenberger-Horne-Zeilinger entanglement in superconducting circuits. <i>Physical Review Letters</i> , 2006 , 96, 246803	7.4	98
173	Producing cluster states in charge qubits and flux qubits. <i>Physical Review Letters</i> , 2006 , 97, 230501	7.4	71

172	Generalized switchable coupling for superconducting qubits using double resonance. <i>Physical Review B</i> , 2006 , 74,	3.3	33
171	Macroscopic Einstein-Podolsky-Rosen pairs in superconducting circuits. <i>Physical Review A</i> , 2006 , 73,	2.6	42
170	Quantum electromechanics: qubits from buckling nanobars. <i>New Journal of Physics</i> , 2006 , 8, 105-105	2.9	37
169	Wet granular materials. <i>Advances in Physics</i> , 2006 , 55, 1-45	18.4	313
168	Probing tiny motions of nanomechanical resonators: classical or quantum mechanical?. <i>Physical Review Letters</i> , 2006 , 97, 237201	7.4	89
167	Domain-wall step motors: Controlling the motion of magnetic domain walls using patterned magnetic films. <i>Physical Review B</i> , 2006 , 74,	3.3	11
166	Quantum transducers: Integrating transmission lines and nanomechanical resonators via charge qubits. <i>Physical Review A</i> , 2006 , 73,	2.6	74
165	Rabi oscillations in a qubit coupled to a quantum two-level system. <i>New Journal of Physics</i> , 2006 , 8, 103-103	3.3	34
164	Maxwell's demon assisted thermodynamic cycle in superconducting quantum circuits. <i>Physical Review Letters</i> , 2006 , 97, 180402	7.4	110
163	Josephson vortex lattices as scatterers of terahertz radiation: Giant magneto-optical effect and Doppler effect using terahertz tunable photonic crystals. <i>Physical Review B</i> , 2006 , 74,	3.3	25
162	Critical currents in superconductors with quasiperiodic pinning arrays: One-dimensional chains and two-dimensional Penrose lattices. <i>Physical Review B</i> , 2006 , 74,	3.3	55
161	Diffusion of interacting Brownian particles: Jamming and anomalous diffusion. <i>Physical Review E</i> , 2006 , 74, 021119	2.4	28
160	Manipulation of magnetic-flux landscapes in superconducting Bi 2 Sr 2 CaCu 2 O 8 + δ crystals. <i>Europhysics Letters</i> , 2006 , 76, 1151-1157	1.6	10
159	Ratchet without spatial asymmetry for controlling the motion of magnetic flux quanta using time-asymmetric drives. <i>Nature Materials</i> , 2006 , 5, 305-11	2.7	117
158	Analogues of nonlinear optics using terahertz Josephson plasma waves in layered superconductors. <i>Nature Physics</i> , 2006 , 2, 521-525	16.2	72
157	Enhancement of the critical current in quasiperiodic pinning arrays: One-dimensional chains and Penrose lattices. <i>Physica C: Superconductivity and Its Applications</i> , 2006 , 437-438, 213-216	1.3	5
156	Controlling vortex motion and vortex kinetic friction. <i>Physica C: Superconductivity and Its Applications</i> , 2006 , 437-438, 226-229	1.3	6
155	Using Josephson vortex lattices to generate, detect and control THz radiation. <i>Physica C: Superconductivity and Its Applications</i> , 2006 , 437-438, 281-284	1.3	20

154	Tunable photonic crystal for THz radiation in layered superconductors: Strong magnetic-field dependence of the transmission coefficient. <i>Physica C: Superconductivity and Its Applications</i> , 2006 , 445-448, 180-182	1.3	17
153	THz detectors using surface Josephson plasma waves in layered superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2006 , 445-448, 183-185	1.3	27
152	Generation of tunable terahertz radiation using Josephson vortices: Transition and Cherenkov radiation. <i>Physica C: Superconductivity and Its Applications</i> , 2006 , 445-448, 175-179	1.3	16
151	Vortex pumps in the crossing lattices regime of highly anisotropic layered superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2006 , 437-438, 52-56	1.3	7
150	Decoherence dynamics of a qubit coupled to a quantum two-level system. <i>Physica C: Superconductivity and Its Applications</i> , 2006 , 444, 45-52	1.3	10
149	Fluctuation-induced casimir forces in granular fluids. <i>Physical Review Letters</i> , 2006 , 96, 178001	7.4	43
148	The transcriptional landscape of the mammalian genome. <i>Science</i> , 2005 , 309, 1559-63	33.3	2807
147	Using Josephson vortex lattices to control terahertz radiation: tunable transparency and terahertz photonic crystals. <i>Physical Review Letters</i> , 2005 , 94, 157004	7.4	58
146	Fast two-bit operations in inductively coupled flux qubits. <i>Physical Review B</i> , 2005 , 71,	3.3	60
145	Interacting particles on a rocked ratchet: rectification by condensation. <i>Physical Review E</i> , 2005 , 71, 011107	1.7	40
144	Separating particles according to their physical properties: Transverse drift of underdamped and overdamped interacting particles diffusing through two-dimensional ratchets. <i>Physical Review B</i> , 2005 , 71,	3.3	55
143	Experimentally realizable devices for domain wall motion control. <i>New Journal of Physics</i> , 2005 , 7, 82-82	2.9	17
142	Critical currents in quasiperiodic pinning arrays: chains and Penrose lattices. <i>Physical Review Letters</i> , 2005 , 95, 177007	7.4	83
141	Superconducting Circuits and Quantum Information. <i>Physics Today</i> , 2005 , 58, 42-47	0.9	809
140	Generation of tunable terahertz out-of-plane radiation using Josephson vortices in modulated layered superconductors. <i>Physical Review B</i> , 2005 , 72,	3.3	47
139	Surface Josephson plasma waves in layered superconductors. <i>Physical Review Letters</i> , 2005 , 95, 187002	7.4	64
138	Optical selection rules and phase-dependent adiabatic state control in a superconducting quantum circuit. <i>Physical Review Letters</i> , 2005 , 95, 087001	7.4	254
137	Quantum computation with Josephson qubits using a current-biased information bus. <i>Physical Review B</i> , 2005 , 71,	3.3	44

136	Separating particles according to their physical properties: Transverse drift of over-damped interacting particles through two-dimensional ratchets. <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 426-431, 147-152	1.3	2
135	Coherent manipulation of coupled Josephson charge qubits. <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 426-431, 1552-1560	1.3	16
134	Brownian motors. <i>Annalen Der Physik</i> , 2005 , 14, 51-70	2.6	317
133	Tomographic measurements on superconducting qubit states. <i>Physical Review B</i> , 2005 , 72,	3.3	52
132	Effects of dynamical phases in Shor's factoring algorithm with operational delays. <i>Physical Review A</i> , 2005 , 71,	2.6	7
131	Nonlinear amplifier and frequency shifter using a tunable periodic drive. <i>Physical Review E</i> , 2005 , 72, 056136	2.4	20
130	Measuring the quality factor of a microwave cavity using superconducting qubit devices. <i>Physical Review A</i> , 2005 , 72,	2.6	32
129	Testing Bell's inequality in a constantly coupled Josephson circuit by effective single-qubit operations. <i>Physical Review B</i> , 2005 , 72,	3.3	32
128	Nanoscale Friction: kinetic friction of magnetic flux quanta and charge density waves. <i>Physical Review Letters</i> , 2005 , 94, 077001	7.4	24
127	Preparation of macroscopic quantum superposition states of a cavity field via coupling to a superconducting charge qubit. <i>Physical Review A</i> , 2005 , 71,	2.6	75
126	Correlation-induced suppression of decoherence in capacitively coupled Cooper-pair boxes. <i>Physical Review B</i> , 2005 , 72,	3.3	47
125	Controlling the motion of interacting particles: homogeneous systems and binary mixtures. <i>Chaos</i> , 2005 , 15, 26112	3.3	22
124	Direct observation of rectified motion of vortices in a niobium superconductor. <i>Physical Review Letters</i> , 2005 , 95, 087002	7.4	99
123	Coherently manipulating two-qubit quantum information using a pair of simultaneous laser pulses. <i>Europhysics Letters</i> , 2004 , 65, 1-6	1.6	8
122	Quantum phase estimation algorithms with delays: effects of dynamical phases. <i>Journal of Physics A</i> , 2004 , 37, 4607-4617		7
121	Generation of nonclassical photon states using a superconducting qubit in a microcavity. <i>Europhysics Letters</i> , 2004 , 67, 941-947	1.6	101
120	Magnetic and mechanical buckling: Modified Landau theory approach to study phase transitions in micromagnetic disks and compressed rods. <i>Physical Review B</i> , 2004 , 70,	3.3	29
119	Signal mixing in a ratchet device: commensurability and current control. <i>European Physical Journal B</i> , 2004 , 40, 403-408	1.2	37

118	Quantum tomography for solid-state qubits. <i>Europhysics Letters</i> , 2004 , 67, 874-880	1.6	21
117	Controllable stepmotors and rectifiers of magnetic flux quanta. <i>Physica C: Superconductivity and Its Applications</i> , 2004 , 404, 260-265	1.3	24
116	Engineering quantum pure states of a trapped cold ion beyond the Lamb-Dicke limit. <i>Physical Review A</i> , 2004 , 70,	2.6	35
115	Manipulating small particles in mixtures far from equilibrium. <i>Physical Review Letters</i> , 2004 , 92, 160602	7.4	80
114	Transport via nonlinear signal mixing in ratchet devices. <i>Physical Review E</i> , 2004 , 70, 066109	2.4	83
113	Controlling the motion of magnetic flux quanta. <i>Physical Review Letters</i> , 2004 , 92, 180602	7.4	104
112	Coupling Josephson qubits via a current-biased information bus. <i>Europhysics Letters</i> , 2004 , 67, 1004-1010	0.6	21
111	Stochastic transport of interacting particles in periodically driven ratchets. <i>Physical Review E</i> , 2004 , 70, 061107	2.4	53
110	Nonlinear signal mixing in a ratchet device. <i>Europhysics Letters</i> , 2004 , 67, 179-185	1.6	94
109	An efficient single-step scheme for manipulating quantum information of two trapped ions beyond the Lamb-Dicke limit. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003 , 320, 131-139	2.3	5
108	Anomalous interstitial dynamics, Stokes-drift, and current inversion in AC-driven vortex lattices in superconductors with arrays of asymmetric double-well traps. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003 , 325, 78-91	3.3	22
107	Fluctuations in the Josephson-junction combined vortex lattice. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 388-389, 653-654	1.3	3
106	Controlling the collective motion of interacting particles: analytical study via the nonlinear Fokker-Planck equation. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 388-389, 661-662	1.3	4
105	Easily-controllable collective stepmotor of magnetic flux quanta. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 388-389, 665-666	1.3	18
104	Vortex lattice melting in very anisotropic superconductors influenced by the force-free current. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 388-389, 685-686	1.3	1
103	Cooper-pair-box qubits in a quantum electrodynamic cavity. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 18, 33-34	3	32
102	Experimentally realizable scalable quantum computing using superconducting qubits. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 18, 35-36	3	5
101	Biologically inspired devices for easily controlling the motion of magnetic flux quanta. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 18, 318-319	3	39

100	Vortex dynamics in superconductors with an array of triangular blind antidots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 18, 322-324	3	28
99	Observing brownian motion in vibration-fluidized granular matter. <i>Nature</i> , 2003 , 424, 909-12	50.4	172
98	Controlling transport in mixtures of interacting particles using Brownian motors. <i>Physical Review Letters</i> , 2003 , 91, 010601	7.4	120
97	Quantum information processing with superconducting qubits in a microwave field. <i>Physical Review B</i> , 2003 , 68,	3.3	286
96	ENTANGLEMENT OF TWO COUPLED CHARGE QUBITS. <i>International Journal of Quantum Information</i> , 2003 , 01, 421-426	0.8	8
95	A superconducting reversible rectifier that controls the motion of magnetic flux quanta. <i>Science</i> , 2003 , 302, 1188-91	33.3	395
94	Controllable step motors and rectifiers of magnetic flux quanta using periodic arrays of asymmetric pinning defects. <i>Physical Review B</i> , 2003 , 68,	3.3	83
93	Shear and loading in channels: Oscillatory shearing and edge currents of superconducting vortices. <i>Physical Review B</i> , 2003 , 67,	3.3	6
92	Force-free current-induced reentrant melting of the vortex lattice in superconductors. <i>Physical Review B</i> , 2003 , 67,	3.3	6
91	Controllable manipulation and entanglement of macroscopic quantum states in coupled charge qubits. <i>Physical Review B</i> , 2003 , 68,	3.3	121
90	Quantum computing with many superconducting qubits 2003 , 351-360		1
89	Simulation of Vortex Dynamics in Nanostructured Pinning Arrays. <i>Physica Status Solidi (B): Basic Research</i> , 2002 , 230, 499-503	1.3	3
88	Experimentally realizable devices for controlling the motion of magnetic flux quanta in anisotropic superconductors. <i>Nature Materials</i> , 2002 , 1, 179-84	27	122
87	Quantum interference in superconducting wire networks and Josephson junction arrays: An analytical approach based on multiple-loop Aharonov-Bohm Feynman path integrals. <i>Physical Review B</i> , 2002 , 65,	3.3	32
86	Scalable quantum computing with Josephson charge qubits. <i>Physical Review Letters</i> , 2002 , 89, 197902	7.4	167
85	Effects of columnar and point defects on magnetic hysteresis curves produced by three-dimensional vortices in layered superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 363, 67-74	1.3	4
84	Vortex structure and dynamics in kagom [~] and triangular pinning potentials. <i>Physical Review B</i> , 2001 , 64,	3.3	43
83	Collective interaction-driven ratchet for transporting flux quanta. <i>Physical Review Letters</i> , 2001 , 87, 177002	7.4	109

82	Moving Wigner glasses and smectics: dynamics of disordered Wigner crystals. <i>Physical Review Letters</i> , 2001 , 86, 4354-7	7.4	71
81	Dynamic phase diagram and orientational dependence for vortices in superconductors with periodic arrays of pinning sites. <i>Physica C: Superconductivity and Its Applications</i> , 2000 , 332, 40-44	1.3	3
80	Dynamic vortex phases and pinning in superconductors with twin boundaries. <i>Physical Review B</i> , 2000 , 61, 3665-3671	3.3	23
79	Critical dynamics of burst instabilities in the Portevin-Le Chatelier effect. <i>Physical Review Letters</i> , 2000 , 85, 4096-9	7.4	28
78	Phase Locking, Devil's Staircases, Farey Trees, and Arnold Tongues in Driven Vortex Lattices with Periodic Pinning. <i>Physical Review Letters</i> , 1999 , 82, 414-417	7.4	147
77	Topological Invariants in Microscopic Transport on Rough Landscapes: Morphology, Hierarchical Structure, and Horton Analysis of Riverlike Networks of Vortices. <i>Physical Review Letters</i> , 1999 , 82, 3641-3644	7.4	18
76	Superconducting Fluxon Pumps and Lenses. <i>Physical Review Letters</i> , 1999 , 83, 5106-5109	7.4	208
75	Phonon squeezed states: quantum noise reduction in solids. <i>Physica B: Condensed Matter</i> , 1999 , 263-264, 16-29	2.8	62
74	Commensurate and incommensurate vortex states in superconductors with periodic pinning arrays. <i>Physical Review B</i> , 1998 , 57, 7937-7943	3.3	223
73	Fractal Networks, Braiding Channels, and Voltage Noise in Intermittently Flowing Rivers of Quantized Magnetic Flux. <i>Physical Review Letters</i> , 1998 , 80, 2197-2200	7.4	91
72	Nonequilibrium dynamic phases and plastic flow of driven vortex lattices in superconductors with periodic arrays of pinning sites. <i>Physical Review B</i> , 1998 , 58, 6534-6564	3.3	157
71	Nonequilibrium Dynamic Phase Diagram for Vortex Lattices. <i>Physical Review Letters</i> , 1998 , 81, 3757-3760	7.4	293
70	Phonon Squeezed States Generated by Second-Order Raman Scattering. <i>Physical Review Letters</i> , 1997 , 79, 4605-4608	7.4	81
69	Superconducting vortex avalanches, voltage bursts, and vortex plastic flow: Effect of the microscopic pinning landscape on the macroscopic properties. <i>Physical Review B</i> , 1997 , 56, 6175-6194	3.3	81
68	Sound-producing sand avalanches. <i>Contemporary Physics</i> , 1997 , 38, 329-342	3.3	23
67	Dynamic Phases of Vortices in Superconductors with Periodic Pinning. <i>Physical Review Letters</i> , 1997 , 78, 2648-2651	7.4	232
66	Booming Sand. <i>Scientific American</i> , 1997 , 277, 84-89	0.5	20
65	Chaotic dynamics of falling disks. <i>Nature</i> , 1997 , 388, 252-254	50.4	172

64	Plastic flow, voltage noise and vortex avalanches in superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1997 , 290, 89-97	1.3	27
63	Intermittently Flowing Rivers of Magnetic Flux. <i>Science</i> , 1996 , 271, 1373-1374	33.3	82
62	Vortex Plastic Motion in Twinned Superconductors. <i>Physical Review Letters</i> , 1996 , 77, 3625-3628	7.4	36
61	Analytical application of the recursion and moments methods to the electronic structure of C60: Exact solution for the pi and sigma states. <i>Physical Review B</i> , 1996 , 53, 1641-1655	3.3	9
60	Squeezed phonon states: Modulating quantum fluctuations of atomic displacements. <i>Physical Review Letters</i> , 1996 , 76, 2294-2297	7.4	98
59	Strongly localized electrons in a magnetic field: Exact results on quantum interference and magnetoconductance. <i>Physical Review Letters</i> , 1996 , 76, 4580-4583	7.4	12
58	Quantum phonon optics: Coherent and squeezed atomic displacements. <i>Physical Review B</i> , 1996 , 53, 2419-2424	3.3	65
57	Spatiotemporal dynamics and plastic flow of vortices in superconductors with periodic arrays of pinning sites. <i>Physical Review B</i> , 1996 , 54, 16108-16115	3.3	120
56	Vortex plastic flow, local flux density, magnetization hysteresis loops, and critical current, deep in the Bose-glass and Mott-insulator regimes. <i>Physical Review B</i> , 1996 , 53, R8898-R8901	3.3	80
55	Quantum interference from sums over closed paths for electrons on a three-dimensional lattice in a magnetic field: Total energy, magnetic moment, and orbital susceptibility. <i>Physical Review B</i> , 1996 , 53, 13374-13385	3.3	12
54	Analytical results on quantum interference and magnetoconductance for strongly localized electrons in a magnetic field: Exact summation of forward-scattering paths. <i>Physical Review B</i> , 1996 , 53, 15543-15562	3.3	9
53	Nori, Plourde, and Bretz Reply. <i>Physical Review Letters</i> , 1995 , 74, 3498	7.4	
52	Magnetic raman scattering in two-dimensional spin-1/2 Heisenberg antiferromagnets: Spectral shape anomaly and magnetostrictive effects. <i>Physical Review Letters</i> , 1995 , 75, 553-556	7.4	37
51	Microscopic derivation of magnetic-flux-density profiles, magnetization hysteresis loops, and critical currents in strongly pinned superconductors. <i>Physical Review B</i> , 1995 , 52, 10441-10446	3.3	53
50	Marginal stability and chaos in coupled faults modeled by nonlinear circuits. <i>Physical Review Letters</i> , 1995 , 74, 74-77	7.4	18
49	Superconducting vortex avalanches. <i>Physical Review Letters</i> , 1995 , 74, 1206-1209	7.4	241
48	Quantum interference on the kagome-acute lattice. <i>Physical Review B</i> , 1994 , 50, 15953-15960	3.3	10
47	Analytical solution for the Fermi-sea energy of two-dimensional electrons in a magnetic field: Lattice path-integral approach and quantum interference. <i>Physical Review B</i> , 1994 , 49, 4131-4135	3.3	11

46	Confirmation of the modified Bean model from simulations of superconducting vortices. <i>Physical Review Letters</i> , 1994 , 72, 1268-1271	7.4	62
45	Raman spectra of two-dimensional spin-1/2 Heisenberg antiferromagnets. <i>Journal of Applied Physics</i> , 1994 , 75, 6340-6342	2.5	10
44	Electronic structure of C60 and C70 molecules: Generating function approach. <i>Solid State Communications</i> , 1994 , 91, 117-120	1.6	3
43	Electronic structure of single- and multiple-shell carbon fullerenes. <i>Physical Review B</i> , 1994 , 49, 5020-5023	3.3	33
42	Water droplet avalanches. <i>Physical Review Letters</i> , 1993 , 71, 2749-2752	7.4	34
41	The real-space renormalization group and generating function for Penrose lattices. <i>Journal of Physics Condensed Matter</i> , 1993 , 5, 9431-9438	1.8	2
40	Phonon-transmission rate, fluctuations, and localization in random semiconductor superlattices: Green's-function approach. <i>Physical Review B</i> , 1993 , 48, 2515-2528	3.3	56
39	Exact renormalization-group approach to the generating function of the Vicsek fractal. <i>Physical Review E</i> , 1993 , 48, R4183-R4186	2.4	8
38	Transport and boundary scattering in confined geometries: Analytical results. <i>Physical Review B</i> , 1993 , 48, 15209-15217	3.3	10
37	Phonon universal-transmission fluctuations and localization in semiconductor superlattices with a controlled degree of order. <i>Physical Review B</i> , 1993 , 48, 14426-14435	3.3	18
36	Mean-field theory of sandpile avalanches: From the intermittent- to the continuous-flow regime. <i>Physical Review E</i> , 1993 , 48, 4095-4098	2.4	22
35	Effective carrier mean-free path in confined geometries. <i>Applied Physics Letters</i> , 1993 , 63, 2076-2078	3.4	7
34	Analytical approaches for the electronic structure of C60. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993 , 183, 214-220	2.3	1
33	FILLING LANDAU LEVELS: FERMI SEA GROUND STATE ENERGY, COMPETING INTERACTIONS AND MARGINAL DISPERSIONS IN GENERALIZED FLUX PHASES. <i>International Journal of Modern Physics B</i> , 1992 , 06, 563-583	1.1	
32	Does frustration describe doping in models for high-temperature superconductors?. <i>Physical Review Letters</i> , 1992 , 68, 240-243	7.4	21
31	Imaging of avalanches in granular materials. <i>Physical Review Letters</i> , 1992 , 69, 2431-2434	7.4	104
30	YBa ₂ Cu ₃ O ₇ Films: Calculation of the thermal conductivity and phonon mean-free path. <i>Journal of Applied Physics</i> , 1992 , 72, 4788-4791	2.5	23
29	Comparison of Frustration and Doping Effects in Generalized Flux Phases. <i>Europhysics Letters</i> , 1991 , 16, 397-403	1.6	5

28	Generalized flux states and the quantum Hall effect (abstract). <i>Journal of Applied Physics</i> , 1991 , 69, 5203-5203		
27	Theoretical analysis of the thermal conductivity of YBa ₂ Cu ₃ O _{7-δ} single crystals. <i>Physical Review B</i> , 1991 , 44, 9508-9513	3.3	82
26	Self-organized critical behavior in pinned flux lattices. <i>Physical Review Letters</i> , 1991 , 67, 919-922	7.4	93
25	Systematic study of generalized flux phases. <i>Physical Review B</i> , 1991 , 44, 7637-7646	3.3	8
24	Thermal conductivity of YBa ₂ Cu ₃ O _{7-δ} in a magnetic field: Can κ (H) probe the vortex state?. <i>Physical Review Letters</i> , 1991 , 67, 3856-3859	7.4	32
23	FRUSTRATED SPIN (J-J') SYSTEMS DO NOT MODEL THE MAGNETIC PROPERTIES OF HIGH-TEMPERATURE SUPERCONDUCTORS. <i>International Journal of Modern Physics B</i> , 1991 , 05, 325-339	1.1	8
22	HARD-CORE SLAVE-BOSON DESCRIPTION OF GENERALIZED FLUX PHASES. <i>International Journal of Modern Physics B</i> , 1991 , 05, 119-130	1.1	3
21	Generalized Thue-Morse chains and their physical properties. <i>Physical Review B</i> , 1991 , 43, 1034-1047	3.3	111
20	Spectral splitting and wave-function scaling in quasicrystalline and hierarchical structures. <i>Physical Review B</i> , 1990 , 42, 10329-10341	3.3	80
19	Trace maps of general substitutional sequences. <i>Physical Review B</i> , 1990 , 42, 1062-1065	3.3	77
18	Acoustic interference in random superlattices. <i>Physical Review B</i> , 1990 , 41, 7941-7944	3.3	45
17	Generalized flux states of the t-J model. <i>Physical Review B</i> , 1990 , 41, 7277-7280	3.3	48
16	Dynamics and Macroscopic Rigidity in Glassy Thin-Films. <i>Woodward Conference</i> , 1990 , 247-252		
15	Long-Range Order in One-Dimensional Quasiperiodic Magnetic Chains. <i>Springer Proceedings in Physics</i> , 1990 , 215-221	0.2	
14	Theory of superconducting wire networks and Josephson-junction arrays in magnetic fields. <i>Physical Review B</i> , 1989 , 39, 2134-2150	3.3	61
13	Thue-Morse quantum Ising model. <i>Physical Review B</i> , 1989 , 39, 6802-6806	3.3	25
12	Transmission and frequency spectra of acoustic phonons in Thue-Morse superlattices. <i>Physical Review B</i> , 1989 , 40, 9790-9801	3.3	38
11	T _c (H) for quasicrystalline micronetworks: Analytical and numerical results. <i>Physica B: Condensed Matter</i> , 1988 , 152, 105-112	2.8	19

10	Strain accumulation in quasicrystalline solids. <i>Physical Review Letters</i> , 1988 , 61, 2774-2777	7.4	25
9	Aperiodic superconducting phase boundary of periodic micronetworks in a magnetic field. <i>Physical Review B</i> , 1988 , 37, 2364-2367	3.3	35
8	Superconducting-normal phase boundary of quasicrystalline arrays in a magnetic field. <i>Physical Review B</i> , 1987 , 36, 8338-8342	3.3	42
7	Renormalization-group study of one-dimensional quasiperiodic systems. <i>Physical Review Letters</i> , 1986 , 57, 2057-2060	7.4	247
6	Acoustic and electronic properties of one-dimensional quasicrystals. <i>Physical Review B</i> , 1986 , 34, 2207-2211	3.1	178
5	Loop-space quantum formulation of free electromagnetism. <i>Lettere Al Nuovo Cimento Rivista Internazionale Della Societ� Italiana Di Fisica</i> , 1983 , 38, 497-502		45
4	Pulse-level noisy quantum circuits with QuTiP. <i>Quantum - the Open Journal for Quantum Science</i> , 6 , 630		3
3	Continuous Dissipative Phase Transitions with or without Symmetry Breaking. <i>New Journal of Physics</i> ,	2.9	2
2	Topological dissipation in a time-multiplexed photonic resonator network. <i>Nature Physics</i> ,	16.2	4
1	Exceptional Photon Blockade: Engineering Photon Blockade with Chiral Exceptional Points. <i>Laser and Photonics Reviews</i> , 2 , 100430	8.3	2