Quantum dynamics of single trapped ions

Reviews of Modern Physics 75, 281-324 DOI: 10.1103/revmodphys.75.281

Citation Report

#	Article	IF	CITATIONS
5	Oxidative Decarboxylation of Carboxylic Acids. Russian Chemical Reviews, 1980, 49, 1119-1134.	2.5	25
6	Toward a scalable, silicon-based quantum computing architecture. IEEE Journal of Selected Topics in Quantum Electronics, 2003, 9, 1552-1569.	1.9	60
7	Photon statistics: Nonlinear spectroscopy of single quantum systems. Physical Review A, 2003, 68, .	1.0	54
8	Selective measurement of quantum coherences in trapped ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 4427-4434.	0.6	1
9	Experiments in cavity QED and with trapped ions. , 2004, , 238-262.		0
10	Coherent manipulation of motional states of trapped ions. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, 269-275.	1.4	4
11	Coarse grained and fine dynamics in trapped ion Raman schemes. Journal of Physics A, 2004, 37, 8177-8187.	1.6	4
12	The revival-collapse phenomenon in the fluctuations of quadrature field components of the multiphoton Jaynes–Cummings model. Journal of Physics A, 2004, 37, 9023-9036.	1.6	7
13	Distilling angular momentum nonclassical states in trapped ions. Physical Review A, 2004, 70, .	1.0	14
14	Laser linewidth effects in quantum state discrimination by electromagnetically induced transparency. Physical Review A, 2004, 70, .	1.0	13
15	Simulating quantum Brownian motion with single trapped ions. Physical Review A, 2004, 69, .	1.0	44
16	Minimal universal two-qubit controlled-NOT-based circuits. Physical Review A, 2004, 69, .	1.0	177
17	Bose-Einstein Condensation and Strong-Correlation Behavior of Phonons in Ion Traps. Physical Review Letters, 2004, 93, 263602.	2.9	113
18	Resonance fluorescence of a trapped three-level atom. Physical Review A, 2004, 69, .	1.0	15
19	lon-trap quantum computing in the presence of cooling. Physical Review A, 2004, 69, .	1.0	23
20	Zero-point cooling and low heating of trappedCd+111ions. Physical Review A, 2004, 70, .	1.0	90
21	lons, Atoms, and Bits: An Architectural Approach to Quantum Computing. Advances in Computers, 2004, 61, 275-318.	1.2	0
22	Course 5 Quantum information processing in ion traps I. Les Houches Summer School Proceedings, 2004, 79, 223-260.	0.2	3

ATION REDO

ARTICLE IF CITATIONS # Course 6 Quantum information processing in ion traps II. Les Houches Summer School Proceedings, 23 0.2 3 2004, 79, 261-293. A single-photon source based on a single Ca+ion. New Journal of Physics, 2004, 6, 94-94. 24 1.2 Double-EIT ground-state laser cooling without blue-sideband heating. Europhysics Letters, 2004, 68, 25 0.7 41 370-376. Coherent dynamics of a flux qubit coupled to a harmonic oscillator. Nature, 2004, 431, 159-162. 647 Ion Trap Quantum Computing with Ca+ Ions. Quantum Information Processing, 2004, 3, 61-73. 27 1.0 18 Planar ion trap geometry for microfabrication. Applied Physics B: Lasers and Optics, 2004, 78, 639-651. 1.1 Optical detection methods for mass spectrometry of macroions. Mass Spectrometry Reviews, 2004, 23, 29 2.8 33 443-465. Effective damping in the Raman cooling of trapped ions. Optics Communications, 2004, 230, 393-400. 1.0 Towards an understanding of decoherence in ion traps. Physics Letters, Section A: General, Atomic 31 0.9 1 and Solid State Physics, 2004, 329, 409-413. Engineering superpositions of displaced number states of a trapped ion. Physica A: Statistical 1.2 Mechanics and Its Applications, 2004, 337, 89-108. Laser Cooling of a Nanomechanical Resonator Mode to its Quantum Ground State. Physical Review 33 2.9 324 Letters, 2004, 92, 075507. Effective Quantum Spin Systems with Trapped Ions. Physical Review Letters, 2004, 92, 207901. 700 Course 2 Mesoscopic state superpositions and decoherence in quantum optics. Les Houches Summer 35 0.2 0 School Proceeding's, 2004, , 55-159. Generation of squeezed states of nanomechanical resonators by reservoir engineering. Physical 1.1 Review B, 2004, 70, . Coupled Ion-Nanomechanical Systems. Physical Review Letters, 2004, 93, 266403. 37 2.9 155 New Frontiers in Quantum Information With Atoms and Ions. Physics Today, 2004, 57, 38-44. 96 Method for generating maximally entangled states of multiple three-level atoms in cavity QED. 39 1.0 15 Physical Review A, 2004, 69, . Generation of SchrÄgdinger Cats in Trapped Ions. European Physical Journal A, 2004, 20, 253-259.

#	Article	IF	Citations
41	Coherence-Preserving Trap Architecture for Long-Term Control of Giant Ryberg Atoms. Physical Review Letters, 2004, 93, 103001.	2.9	61
42	Interfacing Quantum-Optical and Solid-State Qubits. Physical Review Letters, 2004, 92, 247902.	2.9	123
43	Ground-state cooling of mechanical resonators. Physical Review B, 2004, 69, .	1.1	157
44	Strong coupling of a single photon to a superconducting qubit using circuit quantum electrodynamics. Nature, 2004, 431, 162-167.	13.7	3,195
45	QUANTUM OPTICS Laser Cooling of Ions. , 2005, , 264-271.		0
46	Teleportation with trapped ions in a magnetic field gradient. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 344, 97-103.	0.9	3
47	Non-linear parametric processes in quantum information. Progress in Quantum Electronics, 2005, 29, 165-256.	3.5	38
48	Scalable ion trap quantum computing without moving ions. European Physical Journal D, 2005, 32, 201-208.	0.6	6
49	Generation and decoherence of mesoscopic superposition states in a strongly driven micromaser. European Physical Journal D, 2005, 36, 123-128.	0.6	8
50	A Solvable Open Quantum System: The Strongly Driven Micromaser. Optics and Spectroscopy (English) Tj ETQq1	1,0,7843 0,2	14 rgBT /Ov
51	Governing Survival Probability to Distill Quantum States. Optics and Spectroscopy (English) Tj ETQq0 0 0 rgBT /C)verlock 10 0.2	0 Tf 50 342 ⁻
52	Phase entropy of a single trapped ion interacting with a laser field. Laser Physics Letters, 2005, 2, 208-213.	0.6	7
53	Quantum information processing with cold atoms and trapped ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, S567-S578.	0.6	62
54	Ion Trap Quantum Computing with Ca+ Ions. , 2005, , 61-73.		0
55	Generations of macroscopic quantum states of a single trapped ion beyond the Lamb–Dicke limit. Journal of Optics B: Quantum and Semiclassical Optics, 2005, 7, 5-9.	1.4	3
56	Single trapped cold ions: a testing ground for quantum mechanics. Journal of Optics B: Quantum and Semiclassical Optics, 2005, 7, R1-R17.	1.4	5
57	Atomic correlations and cavity field decoherence in a strongly driven micromaser. Journal of Optics B: Quantum and Semiclassical Optics, 2005, 7, S437-S444.	1.4	4
58	The revival–collapse phenomenon in the higher-order fluctuations of quadrature field components of the multiphoton Jaynes–Cummings model. Journal of Physics A, 2005, 38, 5557-5564.	1.6	10

	Сітат	ion Report	
#	Article	IF	CITATIONS
59	The revival–collapse phenomenon in the quadrature field components of the two-mode multiphoton Jaynes–Cummings model. Journal of Optics B: Quantum and Semiclassical Optics, 2005, 7, 341-349.	1.4	6
60	Experimental and theoretical study of the3dD2–level lifetimes ofCa+40. Physical Review A, 2005, 71, .	1.0	81
61	Effective cross-Kerr nonlinearity and robust phase gates with trapped ions. Physical Review A, 2005, 72, .	1.0	24
62	Array of planar Penning traps as a nuclear magnetic resonance molecule for quantum computation. Physical Review A, 2005, 72, .	1.0	18
63	Quantum computing with trapped ions. , 0, , .		2
64	Steering distillation processes through quantum Zeno dynamics. Physical Review A, 2005, 71, .	1.0	8
65	Vibrational coherent quantum computation. Physical Review A, 2005, 71, .	1.0	36
66	Control of finite-dimensional quantum systems: Application to a spin-12 particle coupled with a finite quantum harmonic oscillator. Journal of Mathematical Physics, 2005, 46, 032106.	0.5	10
67	Universal and Deterministic Manipulation of the Quantum State of Harmonic Oscillators: A Route to Unitary Gates for Fock State Qubits. Physical Review Letters, 2005, 95, 010504.	2.9	29
68	Selective interactions in trapped ions: State reconstruction and quantum logic. Physical Review A, 2005, 71, .	1.0	22
69	Multiquantum eigenstates of a linear chain of coupled qubits. Physical Review A, 2005, 71, .	1.0	6
70	Ion trap transducers for quantum electromechanical oscillators. Physical Review A, 2005, 72, .	1.0	107
71	Effective boson-spin model for nuclei-ensemble-based universal quantum memory. Physical Review B, 2005, 71, .	1.1	18
72	Generation of entangled photons by trapped ions in microcavities under a magnetic field gradient. Physical Review A, 2005, 72, .	1.0	10
73	Nondestructive Rydberg Atom Counting with Mesoscopic Fields in a Cavity. Physical Review Letters, 2005, 94, 113601.	2.9	49
74	Minimizing the required trap depth in optical lattice clocks. , 0, , .		0
75	Ion Trap Simulations of Quantum Fields in an Expanding Universe. Physical Review Letters, 2005, 94, 220401.	2.9	63
76	Optical lattice clock with atoms confined in a shallow trap. Physical Review A, 2005, 72, .	1.0	88

IF ARTICLE CITATIONS # Entanglement of trapped-ion clock states. Physical Review A, 2005, 72, . 77 1.0 88 Detecting Vacuum Entanglement in a Linear Ion Trap. Physical Review Letters, 2005, 94, 050504. Quantum chaos and order based on classically moving reference frames. Physical Review A, 2005, 72, . 79 1.0 20 NMR techniques for quantum control and computation. Reviews of Modern Physics, 2005, 76, 16.4 919 1037-1069. Effective spin quantum phases in systems of trapped ions. Physical Review A, 2005, 72, . 81 1.0 150 Spin-Dependent Forces on Trapped Ions for Phase-Stable Quantum Gates and Entangled States of Spin and Motion. Physical Review Letters, 2005, 94, 153602. Analysis of a quantum logic device based on dipole-dipole interactions of optically trapped Rydberg 83 1.0 219 atoms. Physical Review A, 2005, 72, . Simulating Open Quantum Systems with Trapped Ions. European Physical Journal A, 2005, 23, 67-74. 0.2 84 Geometric Phase Accumulation-Based Effects in the Quantum Dynamics of an Anisotropically Trapped 85 0.2 0 Ion. European Physical Journal A, 2005, 23, 125-134. Quantum feedback cooling of a single trapped ion in front of a mirror. Physical Review A, 2005, 72, . 1.0 Coherent-state superpositions in cavity quantum electrodynamics with trapped ions. Physical Review 87 1.0 14 A, 2005, 71, . Modeling of Coupled Neutral and Ion Transport in Quadrupole Interface Flows., 2005, , . Single-photon sources. Contemporary Physics, 2005, 46, 173-206. 89 0.8 84 Vacuum Rabi Oscillations in a Macroscopic Superconducting QubitLCOscillator System. Physical Review Letters, 2006, 96, 127006. Quantum computation by communication. New Journal of Physics, 2006, 8, 30-30. 91 1.2 188 Overdamping of coherently driven quantum systems. Contemporary Physics, 2006, 47, 341-362. Controlling quantum motions of a trapped and driven electron: an exact analytic treatment. Journal 93 1.6 11 of Physics A, 2006, 39, 401-415. 94 Quantum-information processing via a lossy bus. Physical Review A, 2006, 74, .

#	Article	IF	CITATIONS
95	Broadband laser cooling of trapped atoms with ultrafast pulses. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 1170.	0.9	22
97	Optimization of segmented linear Paul traps and transport of stored particles. Fortschritte Der Physik, 2006, 54, 648-665.	1.5	66
98	Ion trap in a semiconductor chip. Nature Physics, 2006, 2, 36-39.	6.5	194
99	Two-photon revival-collapse phenomenon in the evolution of the quadrature squeezing of the four-photon Jaynes–Cummings model. Optics Communications, 2006, 263, 235-238.	1.0	1
100	High-accuracy mass spectrometry with stored ions. Physics Reports, 2006, 425, 1-78.	10.3	610
101	Design and prototyping of Stark atom chip for electric trapping of laser-cooled atoms. Precision Engineering, 2006, 30, 387-395.	1.8	0
102	Entanglement of a three-level trapped atom in the presence of another three-level trapped atom. Optics Communications, 2006, 265, 551-558.	1.0	7
103	Cold atoms in optical lattices as qubits for a quantum computer. Russian Microelectronics, 2006, 35, 74-77.	0.1	3
104	Quantum signatures in the dynamics of two dipole-dipole interacting soft dimers. European Physical Journal B, 2006, 50, 419-423.	0.6	6
105	Continuous variable encoding by ponderomotive interaction. European Physical Journal D, 2006, 37, 283-290.	0.6	31
106	Instantaneous measurement of field quadrature moments and entanglement. European Physical Journal D, 2006, 38, 423-426.	0.6	19
107	Anisotropy-Induced Effects in the Dynamics of an Ion Confined in a Two-Dimensional Paul Trap. Open Systems and Information Dynamics, 2006, 13, 315-321.	0.5	1
108	Entanglement, Decoherence and Correlations in a Strongly Driven Jaynes-Cummings System. Open Systems and Information Dynamics, 2006, 13, 437-444.	0.5	4
109	Phonon Superfluids in Sets of Trapped Ions. Foundations of Physics, 2006, 36, 465-476.	0.6	3
110	Generation of long-living entanglement using cold trapped ions with pair cat states. Applied Physics B: Lasers and Optics, 2006, 84, 471-478.	1.1	8
111	Monolithic microfabricated ion trap chip design for scaleable quantum processors. New Journal of Physics, 2006, 8, 232-232.	1.2	32
112	Quantum metrology at the Heisenberg limit with ion trap motional compass states. New Journal of Physics, 2006, 8, 276-276.	1.2	40
113	Laser Controlling Wavepacket Trains of a Paul Trapped Ion. Communications in Theoretical Physics, 2006, 45, 1089-1096.	1.1	4

	CITATION R	EPORT	
#	Article	lF	CITATIONS
114	Generating continuous variable quantum codewords in the near-field atomic lithography. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 997-1009.	0.6	24
115	Encoding a qubit into multilevel subspaces. New Journal of Physics, 2006, 8, 35-35.	1.2	30
116	PHYSICS: Microwave Cooling of an Artificial Atom. Science, 2006, 314, 1549-1550.	6.0	3
117	Laser controlled quantum motion of two Paul trapped ions. Chinese Physics B, 2006, 15, 2275-2287.	1.3	6
118	Applications of nanophotonics to classical and quantum information technology. , 2006, , .		1
119	Optical Atomic Coherence at the 1-Second Time Scale. Science, 2006, 314, 1430-1433.	6.0	141
120	Measure of phonon-number moments and motional quadratures through infinitesimal-time probing of trapped ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 685-693.	0.6	14
121	Electrodynamic Trapping of Spinless Neutral Atoms with an Atom Chip. Physical Review Letters, 2006, 96, 123001.	2.9	18
122	Photodetachment of ColdOHâ^'in a Multipole Ion Trap. Physical Review Letters, 2006, 97, 193003.	2.9	56
123	Accurate Optical Lattice Clock withSr87Atoms. Physical Review Letters, 2006, 97, 130801.	2.9	112
124	Hyperpolarizability effects and accuracy evaluation of a 87Sr optical lattice clock. , 2006, , .		0
125	Inelastic scattering of light by a cold trapped atom: Effects of the quantum center-of-mass motion. Physical Review A, 2006, 73, .	1.0	5
126	Dynamic nuclear Stark shift in superintense laser fields. Physical Review C, 2006, 74, .	1.1	28
127	Microwave-Induced Cooling of a Superconducting Qubit. Science, 2006, 314, 1589-1592.	6.0	126
128	Feedback Cooling of a Single Trapped Ion. Physical Review Letters, 2006, 96, 043003.	2.9	158
129	Cooling to the Ground State of Axial Motion for One Atom Strongly Coupled to an Optical Cavity. Physical Review Letters, 2006, 97, 083602.	2.9	139
130	Engineering phonon-photon interactions with a driven trapped ion in a cavity. Physical Review A, 2006, 74, .	1.0	7
131	Preparation of ultralow atomic velocities by transforming bound states into tunneling resonances. Physical Review A, 2006, 74, .	1.0	7

	CHATION	REPORT	
#	Article	IF	CITATIONS
132	Solution of the Lindblad equation in the Kraus representation. Physical Review A, 2006, 74, .	1.0	32
133	Single observable concurrence measurement without simultaneous copies. Physical Review A, 2006, 74,	1.0	10
134	Single cold atom as efficient stationary source of EPR-entangled light. Physical Review A, 2006, 74, .	1.0	31
135	Laser excitation of transverse modes in an atomic waveguide. Physical Review A, 2006, 74, .	1.0	5
136	Exact coherent states of a noninteracting Fermi gas in a harmonic trap. Physical Review A, 2006, 74, .	1.0	4
137	Tailoring of motional states in double-well potentials by time-dependent processes. Physical Review A, 2006, 74, .	1.0	9
138	Driven harmonic oscillator as a quantum simulator for open systems. Physical Review A, 2006, 74, .	1.0	25
139	Fast Ground State Manipulation of Neutral Atoms in Microscopic Optical Traps. Physical Review Letters, 2006, 96, 063001.	2.9	140
140	Nonadiabatic tunneling in ponderomotive barriers. Physical Review E, 2006, 74, 056404.	0.8	11
141	Nondestructive measurement of electron spins in a quantum dot. Physical Review B, 2006, 74, .	1.1	41
142	Parametric coupling for superconducting qubits. Physical Review B, 2006, 73, .	1.1	92
143	Three-mode two-boson Jaynes–Cummings model in trapped ions. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 533-543.	0.7	2
144	Coherent population trapping in a finite-size buffer-less cell. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 3851-3860.	0.6	21
145	A short history of Cavity Quantum Electrodynamics. , 2007, , CTuF2.		4
146	Sub-half-wavelength localization of an atom via trichromatic phase control. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 1451-1459.	0.6	25
147	Crossover from weak- to strong-coupling regime in dispersive circuit QED. Europhysics Letters, 2007, 80, 40011.	0.7	9
148	Coherence-Like States of Two Coulomb-Correlated Ions Confined in a Paul Trap. Chinese Physics Letters, 2007, 24, 851-854.	1.3	2
149	Practical scheme for quantum dense coding between three parties using microwave radiation in trapped ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 1245-1252.	0.6	17

#	Article	IF	CITATIONS
150	Optimization of Doppler Cooling of a Single40Ca+Ion. Japanese Journal of Applied Physics, 2007, 46, 1713-1716.	0.8	3
151	Time-dependent perturbation treatment of independent Raman schemes. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 4847-4862.	0.7	2
152	Decoherence of multicomponent symmetrical superpositions of displaced quantum states. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 13955-13974.	0.7	3
153	Experimental procedures for entanglement verification. Physical Review A, 2007, 75, .	1.0	79
154	Motional frequency shifts of trapped ions in the Lamb-Dicke regime. Physical Review A, 2007, 76, .	1.0	13
155	Fast quantum state control of a single trapped neutral atom. Physical Review A, 2007, 75, .	1.0	76
156	Effective quantum dynamics of interacting systems with inhomogeneous coupling. Physical Review A, 2007, 75, .	1.0	21
157	Influence of dissipation on the extraction of quantum states via repeated measurements. Physical Review A, 2007, 76, .	1.0	11
158	Entanglement in the dispersive interaction of trapped ions with a quantized field. Physical Review A, 2007, 75, .	1.0	8
159	Photoionization and photoelectric loading of barium ion traps. Physical Review A, 2007, 75, .	1.0	26
160	Particle motion in rapidly oscillating potentials: The role of the potential's initial phase. Physical Review A, 2007, 76, .	1.0	17
161	An all-optical ion-loading technique for scalable microtrap architectures. , 2007, , .		0
162	Sub-half-wavelength atom localization via phase control of a pair of bichromatic fields. Physical Review A, 2007, 76, .	1.0	69
163	Initializing a quantum register from Mott-insulator states in optical lattices. Physical Review A, 2007, 75, .	1.0	4
164	Controlled collisions of a single atom and an ion guided by movable trapping potentials. Physical Review A, 2007, 76, .	1.0	68
165	Noise-Free Measurement of Harmonic Oscillators with Instantaneous Interactions. Physical Review Letters, 2007, 98, 020401.	2.9	11
166	Amplitude and phase control of a coherent superposition of degenerate states. I. Theory. Physical Review A, 2007, 75, .	1.0	18
167	Optical pumping via incoherent Raman transitions. Physical Review A, 2007, 76, .	1.0	16

		CITATION RE	PORT	
#	Article		IF	CITATIONS
168	Single trapped ion as a time-dependent harmonic oscillator. Physical Review A, 2007, 76	, .	1.0	27
169	Analogue of Cosmological Particle Creation in an Ion Trap. Physical Review Letters, 2007	7, 99, 201301.	2.9	62
170	State Preparation and Dynamics of Ultracold Atoms in Higher Lattice Orbitals. Physical F 2007, 99, 200405.	eview Letters,	2.9	180
171	Direct measurement of concurrence for atomic two-qubit pure states. Physical Review A	, 2007, 75, .	1.0	42
172	Vibronic Rabi resonances in harmonic and hard-wall ion traps for arbitrary laser intensity detuning. Physical Review A, 2007, 75, .	and	1.0	10
173	Phase coherent dynamics of a superconducting flux qubit with capacitive bias readout. I Review B, 2007, 76, .	Physical	1.1	34
174	Exact Solution of Quantum Dynamics of a Cantilever Coupling to a Single Trapped Ultra Communications in Theoretical Physics, 2007, 47, 561-566.	cold Ion.	1.1	3
175	Bell States and Two-Qubit Logic Gate with Superconducting Charge Qubits Coupling to Nanomechanical Resonator. Communications in Theoretical Physics, 2007, 48, 999-100	a 2.	1.1	1
176	Dynamics of Jaynes–Cummings Model in the Absence of Rotating-Wave Approximatic in Theoretical Physics, 2007, 47, 781-786.	n. Communications	1.1	4
177	Sir Peter Knight and the Jaynes–Cummings model. Journal of Modern Optics, 2007, 54	, 2009-2016.	0.6	6
178	Tavis-Cummings model and collective multiqubit entanglement in trapped ions. Physical 75, .	Review A, 2007,	1.0	74
179	Physical implementation of a programmable discriminator for unknown qubit states. Jou Optical Society of America B: Optical Physics, 2007, 24, 384.	rnal of the	0.9	10
180	Theory of Ground State Cooling of a Mechanical Oscillator Using Dynamical Backaction. Review Letters, 2007, 99, 093901.	Physical	2.9	820
181	Summary of Einstein's Views. , 2007, , 155-208.			Ο
182	Lower ground state due to counter-rotating wave interaction in a trapped ion system. Jo Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 1967-1974.	urnal of	0.6	16
183	Dynamics of Two-Level Trapped Ion in a Standing Wave Laser in Noncommutative Space Communications in Theoretical Physics, 2007, 47, 921-926.		1.1	1
184	Gain Narrowing in Few-Atom Systems. Physical Review Letters, 2007, 98, 103601.		2.9	13
185	Exact mapping of the <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mrow><mml:mn>2</mml:mn><mml:mo>+</mml:mo><mml:mn> oscillator onto the Jaynes-Cummings model: Ion-trap experimental proposal. Physical Re</mml:mn></mml:mrow></mml:math>	1view A, 2007,	w>1.0	math>Dirac

IF ARTICLE CITATIONS # Quantum Optics., 2007, , 1053-1078. 186 3 Transport quantum logic gates for trapped ions. Physical Review A, 2007, 76, . 1.0 39 Design, microfabrication, and analysis of micrometer-sized cylindrical ion trap arrays. Review of 188 0.6 28 Scientific Instruments, 2007, 78, 015107. Dynamics of the Jaynes–Cummings and Rabi models: old wine in new bottles. Physica Scripta, 2007, 76, 1.2 146-160. Quantum simulations under translational symmetry. Physical Review A, 2007, 75, . 190 1.0 10 Laser-manipulated the multiphoton transitions of a harmonically trapped particle. Chinese Physics B, 2007, 16, 3662-3667. 1.3 Dirac Equation and Quantum Relativistic Effects in a Single Trapped Ion. Physical Review Letters, 2007, 192 2.9 254 98, 253005. Zero-point cooling and heating-rate measurements of a singleSr+88ion. Physical Review A, 2007, 75, . 1.0 Exchange interaction, entanglement, and quantum noise due to a thermal bosonic field. Physical 194 1.1 33 Review B, 2007, 75, . Ground state cooling in a bad cavity. Journal of Modern Optics, 2007, 54, 1595-1606. Angular dependence of Dicke-narrowed electromagnetically induced transparency resonances. 196 1.0 36 Physical Review A, 2007, 76, . A new look at the quantum mechanics of the harmonic oscillator. Annalen Der Physik, 2007, 16, 439-528. Exact manipulations to Bloch states of a particle in a double cosine potential. Physics Letters, Section 198 0.9 5 A: General, Atomic and Solid State Physics, 2007, 367, 445-449. Progressive field-state collapse and quantum non-demolition photon counting. Nature, 2007, 448, 199 13.7 889-893. Coupling superconducting qubits via a cavity bus. Nature, 2007, 449, 443-447. 200 13.7 1,109 Accuracy Evaluation of a \$^{87}hbox{Sr}\$ Optical Lattice Clock. IEEE Transactions on 2.4 Instrumentation and Measurement, 2007, 56, 336-340. Entanglement generation in trapped atoms. European Physical Journal D, 2007, 41, 199-203. 202 0.6 4 Two-photon interaction between trapped ions and cavity fields. European Physical Journal D, 2007, 41, 417-423.

#	Article	IF	CITATIONS
204	An all-optical ion-loading technique for scalable microtrap architectures. Applied Physics B: Lasers and Optics, 2007, 88, 507-513.	1.1	32
205	Effective Generation of Cat and Kitten States. Open Systems and Information Dynamics, 2007, 14, 81-90.	0.5	6
206	Squeezed states and uncertainty relations since 1991. Journal of Russian Laser Research, 2007, 28, 404-428.	0.3	8
207	Decoherence of multicomponent and multimode generalizations of even/odd coherent states in thermal and phase reservoirs. Journal of Russian Laser Research, 2007, 28, 453-482.	0.3	4
208	Quantum kinetic theory of trapped particles in a strong electromagnetic field. Annals of Physics, 2008, 323, 3158-3174.	1.0	5
209	Sub-half-wavelength localization of a two-level atom via trichromatic phase manipulation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 6032-6036.	0.9	17
210	Quantum computing with trapped ions. Physics Reports, 2008, 469, 155-203.	10.3	856
211	lon-trap quantum information processing: Experimental status. Frontiers of Physics in China, 2008, 3, 365.	1.0	12
212	Quantum manyâ€body phenomena in coupled cavity arrays. Laser and Photonics Reviews, 2008, 2, 527-556.	4.4	399
213	Highly Coherent Spectroscopy of Ultracold Atoms and Molecules in Optical Lattices. ChemPhysChem, 2008, 9, 375-382.	1.0	9
214	Generation of maximally entangled atom pairs in driven dissipative cavity QED systems. European Physical Journal D, 2008, 46, 165-172.	0.6	6
215	Atomic Bell states generation in an open driven cavity QED system. European Physical Journal: Special Topics, 2008, 160, 61-70.	1.2	0
216	Ultracold strontium clock: Applications to the measurement of fundamental constant variations. European Physical Journal: Special Topics, 2008, 163, 9-18.	1.2	5
217	The symmetry group of the quantum harmonic oscillator in an electric field. Open Physics, 2008, 6, .	0.8	1
218	Quasi-probability distribution functions for a single trapped ion interacting with a mixed laser field. Laser Physics, 2008, 18, 1217-1223.	0.6	35
219	Coherent population trapping (Electromagnetically induced transparency) resonance in cells of finite sizes. Technical Physics, 2008, 53, 498-503.	0.2	0
220	Entangled states of trapped atomic ions. Nature, 2008, 453, 1008-1015.	13.7	923
221	Wiring up quantum systems. Nature, 2008, 451, 664-669.	13.7	786

#	Article	IF	CITATIONS
222	Optical lattice clocks with non-interacting bosons and fermions. Nature Physics, 2008, 4, 954-959.	6.5	118
223	Resolved-sideband cooling of a micromechanical oscillator. Nature Physics, 2008, 4, 415-419.	6.5	533
224	Suppression of Heating Rates in Cryogenic Surface-Electrode Ion Traps. Physical Review Letters, 2008, 100, 013001.	2.9	177
225	Analytic model for electrostatic fields in surface-electrode ion traps. Physical Review A, 2008, 78, .	1.0	85
226	Quantum State Engineering and Precision Metrology Using State-Insensitive Light Traps. Science, 2008, 320, 1734-1738.	6.0	343
227	Coherent manipulations of atoms using laser light. Acta Physica Slovaca, 2008, 58, .	1.4	61
228	Chemical applications of laser- and sympathetically-cooled ions in ion traps. Physical Chemistry Chemical Physics, 2008, 10, 7200.	1.3	127
229	Robust control of quantized motional states of a chain of trapped ions by collective adiabatic passage. Physical Review A, 2008, 77, .	1.0	7
230	Decoherence-free preparation of Dicke states of trapped ions by collective stimulated Raman adiabatic passage. Physical Review A, 2008, 77, .	1.0	25
231	Intrinsic dissipation in nanomechanical resonators due to phonon tunneling. Physical Review B, 2008, 77, .	1.1	119
232	Two-qubit state transfer between trapped ions using electromagnetic cavities coupled by an optical fibre. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 045503.	0.6	8
233	Enhanced entanglement and squeezing of two-mode field from a double-ladder four-level atom. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 155502.	0.6	5
234	Doppler-free, multiwavelength acousto-optic deflector for two-photon addressing arrays of Rb atoms in a quantum information processor. Applied Optics, 2008, 47, 1816.	2.1	11
235	Cavity Optomechanics: Back-Action at the Mesoscale. Science, 2008, 321, 1172-1176.	6.0	1,638
236	Decay and survivability of entanglement in two-dimensional ionic motions. Journal of Modern Optics, 2008, 55, 89-97.	0.6	2
237	Optical lattice clocks with non-interacting bosons and fermions. , 2008, , .		0
238	Quantum phases of interacting phonons in ion traps. Physical Review A, 2008, 77, .	1.0	45
239	Sr Lattice Clock at 1 × 10 ^{–16} Fractional Uncertainty by Remote Optical Evaluation with a Ca Clock. Science, 2008, 319, 1805-1808.	6.0	500

#	Article	IF	CITATIONS
240	Nondestructive Probing of Rabi Oscillations on the Cesium Clock Transition near the Standard Quantum Limit. Physical Review Letters, 2008, 100, 103601.	2.9	56
241	Experimental investigation of the dynamics of entanglement: Sudden death, complementarity, and continuous monitoring of the environment. Physical Review A, 2008, 78, .	1.0	219
242	Monitoring atom-atom entanglement and decoherence in a solvable tripartite open system in cavity QED. Physical Review A, 2008, 77, .	1.0	22
243	On the quantum core of an optical vortex. Journal of Modern Optics, 2008, 55, 2279-2292.	0.6	15
244	Energy Level of Three-Mode Harmonic Oscillator for Coordinate Operators Satisfying Cyclic Commutative Relations Obtained by IEO Method. Communications in Theoretical Physics, 2008, 50, 1348-1350.	1.1	2
245	WEHRL ENTROPY AND ENTANGLEMENT OF A TIME-DEPENDENT TWO-LEVEL TRAPPED ION INTERACTING WITH A LASER FIELD. International Journal of Quantum Information, 2008, 06, 331-339.	0.6	1
246	Detecting unambiguously non-Abelian geometric phases with trapped ions. New Journal of Physics, 2008, 10, 043031.	1.2	14
247	Entanglement sudden birth of two trapped ions interacting with a time-dependent laser field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 235503.	0.6	20
248	ENGINEERING MACROSCOPIC QUANTUM STATES OF A SINGLE TRAPPED ION: HIGHER-ORDER LAMB–DICKE APPROXIMATIONS. Modern Physics Letters B, 2008, 22, 139-146.	1.0	1
249	ACCELERATING THE REVIVAL OF A TRAPPED-ION SYSTEM. Modern Physics Letters B, 2008, 22, 467-474.	1.0	1
250	Trapped Rydberg ions: from spin chains to fast quantum gates. New Journal of Physics, 2008, 10, 093009.	1.2	81
251	Deep Optical Trap for Cold Calcium Atoms. AIP Conference Proceedings, 2008, , .	0.3	0
252	Quantum phases of trapped ions in an optical lattice. New Journal of Physics, 2008, 10, 045017.	1.2	51
253	The absolute frequency of the ⁸⁷ Sr optical clock transition. Metrologia, 2008, 45, 539-548.	0.6	139
254	Coupled gas and ion transport in quadrupole interfaces. Journal Physics D: Applied Physics, 2008, 41, 025205.	1.3	15
255	Parametric coupling between macroscopic quantum resonators. New Journal of Physics, 2008, 10, 115001.	1.2	65
256	Cavity-assisted backaction cooling of mechanical resonators. New Journal of Physics, 2008, 10, 095007.	1.2	114
257	Phase Evolution of Coherent Light in a Simple Polariton Model. Chinese Physics Letters, 2008, 25, 821-824.	1.3	0

#	Article	IF	CITATIONS
258	Engineering Two-Mode Squeezed Vacuum Motional State of a Single Intracavity Trapped Ion. Chinese Physics Letters, 2008, 25, 945-948.	1.3	1
259	Scalable Generation of Cluster State for Multiple Hot Trapped Ions. Chinese Physics Letters, 2008, 25, 1198-1201.	1.3	1
260	A molecular dynamics simulation study on trapping ions in a nanoscale Paul trap. Nanotechnology, 2008, 19, 195702.	1.3	19
261	Rabi oscillations in a quantum dot-cavity system coupled to a nonzero temperature phonon bath. Physica Scripta, 2008, 77, 065704.	1.2	5
262	lon trap quantum gates with amplitude-modulated laser beams. New Journal of Physics, 2008, 10, 013002.	1.2	98
263	Monitoring a single ion's motion by second-order photon correlations. New Journal of Physics, 2008, 10, 043011.	1.2	17
264	Theory of cavity-assisted microwave cooling of polar molecules. New Journal of Physics, 2008, 10, 063005.	1.2	12
265	Probing the quantum coherence of a nanomechanical resonator using a superconducting qubit: I. Echo scheme. New Journal of Physics, 2008, 10, 095004.	1.2	40
266	Hyper-entanglement in a relativistic two-body system. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 485302.	0.7	9
267	Dephasing-assisted transport: quantum networks and biomolecules. New Journal of Physics, 2008, 10, 113019.	1.2	762
268	Chirality quantum phase transition in the Dirac oscillator. Physical Review A, 2008, 77, .	1.0	80
269	Decoherence and dissipation of a quantum harmonic oscillator coupled to two-level systems. Physical Review A, 2008, 77, .	1.0	40
270	Limitations of the modulation method to smooth wire-guide roughness. Physical Review A, 2008, 77, .	1.0	11
271	Mesoscopic spin-boson models of trapped ions. Physical Review A, 2008, 78, .	1.0	99
272	Doppler cooling of calcium ions using a dipole-forbidden transition. Physical Review A, 2008, 77, .	1.0	23
273	Scheme for tunable quantum phase gate and effective preparation of graph-state entanglement. Physical Review A, 2008, 77, .	1.0	17
274	Nonrelativistic limit in the <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mrow><mml:mn>2</mml:mn><mml:mo>+</mml:mo><mml:mn>1</mml:mn>oscillator: A Ramsey-interferometry effect. Physical Review A, 2008, 77, .</mml:mrow></mml:math>	w> ⊾¢ mml:r	nato>Dirac
275	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mrow><mml:msup><mml:mrow><mml:mmultiscripts><mml:mtext>C</mml:mtext><mm /><mml:none /><mml:mrow><mml:mn>43</mml:mn></mml:mrow></mml:none </mm </mml:mmultiscripts><mml:mtext>a</mml:mtext>Physical Review A, 2008, 77, .</mml:mrow></mml:msup></mml:mrow>	l:mprescrip mrow> <m< td=""><td>ots₆₂ ml:mo>+</td></m<>	ots ₆₂ ml:mo>+

#	Article	IF	CITATIONS
276	Vibrational Bloch-Siegert effect in trapped ions. Physical Review A, 2008, 77, .	1.0	8
277	Quantum interference structures in trapped-ion dynamics beyond the Lamb-Dicke and rotating wave approximations. Physical Review A, 2008, 77, .	1.0	18
278	Wave-packet Rabi oscillations from phase-space flow in mesoscopic cavity QED. Physical Review A, 2008, 77, .	1.0	4
279	Anisotropy-dependent circular polarization spectroscopy. Physical Review A, 2008, 78, .	1.0	2
280	Theory of Raman transitions in cavity QED. Physical Review A, 2008, 78, .	1.0	2
281	One-way quantum computing in optical lattices with many-atom addressing. Physical Review A, 2008, 78, .	1.0	6
282	Numerical analysis of optimized coherent control pulses. Physical Review A, 2008, 78, .	1.0	15
283	Strong Tunable Coupling between a Superconducting Charge and Phase Qubit. Physical Review Letters, 2008, 100, 187003.	2.9	34
284	Simultaneous Cooling of an Artificial Atom and Its Neighboring Quantum System. Physical Review Letters, 2008, 100, 047001.	2.9	73
285	Quantum trajectory analysis of single-photon control from a single-molecule source. Journal of Chemical Physics, 2008, 128, 054104.	1.2	1
286	Manipulating and probing microwave fields in a cavity by quantum non-demolition photon counting. Physica Scripta, 2009, T137, 014014.	1.2	1
287	Integrated atom detector: Single atoms and photon statistics. Physical Review A, 2009, 79, .	1.0	17
288	Jahn-Teller-induced Berry phase in spin-orbit-coupled Bose-Einstein condensates. Physical Review A, 2009, 79, .	1.0	58
289	Nonequilibrium thermodynamic analysis of squeezing. Physical Review A, 2009, 79, .	1.0	28
290	Manipulation of quantum particles in rapidly oscillating potentials by inducing phase hops. Physical Review A, 2009, 79, .	1.0	16
291	Quantum Walk on a Line for a Trapped Ion. Physical Review Letters, 2009, 103, 183602.	2.9	81
292	Optimal Surface-Electrode Trap Lattices for Quantum Simulation with Trapped Ions. Physical Review Letters, 2009, 102, 233002.	2.9	87
293	Cooling mechanisms in molecular conduction junctions. Physical Review B, 2009, 80, .	1.1	85

#	Article	IF	CITATIONS
294	Power-Law Distributions for a Trapped Ion Interacting with a Classical Buffer Gas. Physical Review Letters, 2009, 102, 063001.	2.9	169
295	Rabi spectroscopy and excitation inhomogeneity in a one-dimensional optical lattice clock. Physical Review A, 2009, 80, .	1.0	124
296	Dicke model and environment-induced entanglement in ion-cavity QED. Physical Review A, 2009, 80, .	1.0	35
297	Trap-assisted creation of giant molecules and Rydberg-mediated coherent charge transfer in a Penning trap. Physical Review A, 2009, 79, .	1.0	4
298	Quantum manipulation of low-frequency fluctuators by superconducting resonator. Physical Review B, 2009, 79, .	1.1	6
299	Tuning the Gap of a Superconducting Flux Qubit. Physical Review Letters, 2009, 102, 090501.	2.9	153
300	Phase control of the Pancharatnam phase. Physical Review A, 2009, 79, .	1.0	14
301	Electric field noise above surfaces: A model for heating-rate scaling law in ion traps. Physical Review A, 2009, 80, .	1.0	45
302	Ground State Cooling of a Nanomechanical Resonator in the Nonresolved Regime via Quantum Interference. Physical Review Letters, 2009, 103, 227203.	2.9	59
303	Quantum router based on ac control of qubit chains. Physical Review A, 2009, 80, .	1.0	59
304	Generation of Schrödinger cat state of a single trapped cold ion. Chinese Physics B, 2009, 18, 1049-1053.	0.7	0
305	A quantum parametric oscillator in a radiofrequency trap. Physica Scripta, 2009, T135, 014006.	1.2	10
306	Chapter 2 Quantum Effects in Optomechanical Systems. Advances in Atomic, Molecular and Optical Physics, 2009, 57, 33-86.	2.3	159
307	Large-scale quantum computation in an anharmonic linear ion trap. Europhysics Letters, 2009, 86, 60004.	0.7	121
308	Quantum communication between trapped ions through a dissipative environment. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 182001.	0.7	3
309	Barium lons for Quantum Computation. , 2009, , .		2
310	Cooling down quantum bits on ultrashort time scales. New Journal of Physics, 2009, 11, 123025.	1.2	38
311	Squeezing and broadening effects in mechanical oscillators. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 055307.	0.7	3

#	ARTICLE	IF	Citations
312	Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 154001.	0.6	124
313	Solution to the satisfiability problem using a complete Grover search with trapped ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 145503.	0.6	3
314	Wiring up trapped ions to study aspects of quantum information. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 154012.	0.6	30
315	Practical recipes for the model order reduction, dynamical simulation and compressive sampling of large-scale open quantum systems. New Journal of Physics, 2009, 11, 065002.	1.2	2
316	Quantum Optical Heating in Sonoluminescence Experiments. , 2009, , .		0
317	Coherence of Spin-Polarized Fermions Interacting with a Clock Laser in a Stark-Shift-Free Optical Lattice. Journal of the Physical Society of Japan, 2009, 78, 013301.	0.7	12
318	Probing Interactions Between Ultracold Fermions. Science, 2009, 324, 360-363.	6.0	99
319	Cooling atoms into entangled states. New Journal of Physics, 2009, 11, 083008.	1.2	58
320	Ground State of Jaynes–Cummings Model: Comparison of Solutions with and without the Rotating-Wave Approximation. Chinese Physics Letters, 2009, 26, 044212.	1.3	5
321	Application of quantum algorithms to direct measurement of concurrence of a two-qubit pure state. Chinese Physics B, 2009, 18, 2642-2648.	0.7	9
322	Sonoluminescence and quantum optical heating. New Journal of Physics, 2009, 11, 053001.	1.2	12
323	Two-photon cooling of a nonlinear quantum oscillator. Optics Communications, 2009, 282, 3930-3933.	1.0	2
324	Entanglement of three-level trapped ions with phonon trap modes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 2420-2427.	0.9	9
325	Entanglement detection. Physics Reports, 2009, 474, 1-75.	10.3	1,668
326	Quantum state control, entanglement, and readout of the Josephson persistent-current qubit. Quantum Information Processing, 2009, 8, 199-215.	1.0	5
327	Spin-resolved quantum-dot resonance fluorescence. Nature Physics, 2009, 5, 198-202.	6.5	251
328	Quantum computation and quantum-state engineering driven by dissipation. Nature Physics, 2009, 5, 633-636.	6.5	1,092
329	A phonon laser. Nature Physics, 2009, 5, 682-686.	6.5	180

#	Article	IF	CITATIONS
330	Simplified approach to generate controlled-NOT gates with single trapped ions for arbitrary Lamb–Dicke parameters. Optics Communications, 2009, 282, 1948-1951.	1.0	2
331	Polarization spectroscopy to determine alignment depolarization of the atoms using a pump-probe laser technique. Optics Communications, 2009, 282, 1567-1573.	1.0	4
332	Creation and manipulation of entanglement in spin chains far from equilibrium. European Physical Journal: Special Topics, 2009, 180, 237-246.	1.2	10
333	High contrast electromagnetically induced transparency in a nitrogen filled Rb vapour cell. Laser Physics, 2009, 19, 2008-2013.	0.6	7
334	Competing many-body interactions in systems of trapped ions. Physical Review A, 2009, 79, .	1.0	42
335	Simple integrated single-atom detector. Optics Letters, 2009, 34, 259.	1.7	22
336	THE TRAPPED-ION QUBIT: COHERENT CONTROL IN INFINITE-DIMENSIONAL QUANTUM SYSTEMS. Modern Physics Letters A, 2009, 24, 2565-2578.	0.5	1
337	Quantum Computing with Trapped Ions. , 2009, , 7218-7249.		0
338	Prospects for Optical Clocks with a Blue-Detuned Lattice. Physical Review Letters, 2009, 102, 063002.	2.9	43
339	Quantum search in a nonclassical database of trapped ions. Physical Review A, 2009, 79, .	1.0	11
340	Quantum information processing and quantum control with trapped atomic ions. Physica Scripta, 2009, T137, 014007.	1.2	17
341	Ca+quantum bits for quantum information processing. Physica Scripta, 2009, T137, 014008.	1.2	4
342	Quantum system under the actions of two counteracting baths: A model for the attenuation-amplification interplay. Physical Review A, 2009, 80, .	1.0	2
343	Hybrid quantum devices and quantum engineering. Physica Scripta, 2009, T137, 014001.	1.2	243
344	A bead on a hoop rotating about a horizontal axis: A one-dimensional ponderomotive trap. American Journal of Physics, 2009, 77, 1039-1048.	0.3	9
345	Motions of ions in a nanoscale Paul trap from molecular dynamics. Molecular Simulation, 2009, 35, 812-821.	0.9	1
346	Jaynes-Cummings models with trapped electrons on liquid helium. Physical Review A, 2009, 80, .	1.0	13
347	Quantum simulations based on measurements and feedback control. Physical Review A, 2009, 79, .	1.0	8

#	Article	IF	Citations
348	Photodetection of propagating quantum microwaves in circuit QED. Physica Scripta, 2009, T137, 014004.	1.2	33
349	Entanglement in a continuously measured two-level system coupled to a harmonic oscillator. Physical Review A, 2009, 79, .	1.0	1
350	Trapping and Manipulation of Isolated Atoms Using Nanoscale Plasmonic Structures. Physical Review Letters, 2009, 103, 123004.	2.9	96
351	Quantum billiards in optical lattices. Europhysics Letters, 2009, 88, 30006.	0.7	12
352	Adiabatic passage methods in cooling trapped molecular ions. Proceedings of SPIE, 2010, , .	0.8	0
353	Nonlinear ion trap stability analysis. Physica Scripta, 2010, T140, 014057.	1.2	5
354	Nonlinear harmonic boson oscillator. Physica Scripta, 2010, T140, 014056.	1.2	3
355	Noise suppression in an atomic system under the action of a field in a squeezed coherent state. Journal of Experimental and Theoretical Physics, 2010, 110, 551-560.	0.2	1
356	Multipartite entangled states with two bosonic modes and qubits. European Physical Journal D, 2010, 59, 509-519.	0.6	7
357	Entanglement generation in planar Penning traps. Physical Review A, 2010, 82, .	1.0	0
358	Sensitivity of the population and the Pancharatnam phase for a trapped ion with Stark shift. Physical Review A, 2010, 82, .	1.0	8
359	Energy concentration in composite quantum systems. Physical Review A, 2010, 81, .	1.0	21
360	Generation of hyperentangled states between remote noninteracting atomic ions. Physical Review A, 2010, 82, .	1.0	11
361	Optimization of Yb <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mrow><mml:msup><mml:mrow /><mml:mrow><mml:mo>+</mml:mo></mml:mrow></mml:mrow </mml:msup></mml:mrow></mml:math>	1.0	23
362	Quantum work statistics of linear and nonlinear parametric oscillators. Chemical Physics, 2010, 375, 200-208.	0.9	61
363	Kramers barrier crossing as a cooling machine. Chemical Physics, 2010, 375, 399-402.	0.9	6
364	Entangled coherent states under dissipation. Optics Communications, 2010, 283, 3825-3829.	1.0	5
365	A cloud of laser cooled 40Ca+ in a linear ion trap. Science Bulletin, 2010, 55, 3094-3097.	1.7	1

# 366	ARTICLE Radium ion: a candidate for measuring atomic parity violation. Hyperfine Interactions, 2010, 196, 261-267.	IF 0.2	Citations
367	Rotating wave approximation and entropy. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 3726-3732.	0.9	10
368	Quantum computers. Nature, 2010, 464, 45-53.	13.7	2,613
369	Quantum simulation of frustrated Ising spins with trapped ions. Nature, 2010, 465, 590-593.	13.7	642
370	Observation of spin-dependent quantum jumps via quantum dot resonance fluorescence. Nature, 2010, 467, 297-300.	13.7	133
371	Optical trapping of an ion. Nature Photonics, 2010, 4, 772-775.	15.6	108
372	Fast generation of cluster states in a linear ion trap. Chinese Physics B, 2010, 19, 090317.	0.7	5
373	A New Approach to Measurement of Heating Rate of Trapped Ions. Communications in Theoretical Physics, 2010, 54, 460-462.	1.1	0
374	Validity of Lamb–Dicke Approximations in Ion-Trap Systems. Chinese Physics Letters, 2010, 27, 010304.	1.3	0
375	Control of a Cloud of Laser-Cooled 40 Ca + in a Linear Ion Trap. Chinese Physics Letters, 2010, 27, 043201.	1.3	5
376	Strings of Ion Crystals in a Linear Trap for Quantum Information Processing. Chinese Physics Letters, 2010, 27, 123203.	1.3	8
377	Entanglement of two atoms interacting with a dissipative coherent cavity field without rotating wave approximation. Chinese Physics B, 2010, 19, 110303.	0.7	3
378	Nanotechnology for Electronics, Photonics, and Renewable Energy. Nanostructure Science and Technology, 2010, , .	0.1	11
379	How â€~cold' can a Markovian dissipative cavity QED system be?. Physica Scripta, 2010, 82, 038102.	1.2	6
380	Reversible Measurement on Quantum States of Trapped-Ion Qubits. Communications in Theoretical Physics, 2010, 53, 469-472.	1.1	5
381	Superfast Laser Cooling. Physical Review Letters, 2010, 104, 183001.	2.9	33
382	Quantum computation with doped silicon cavities. Physical Review B, 2010, 81, .	1.1	11
383	Mesoscopic shelving readout of superconducting qubits in circuit quantum electrodynamics. Physical Review B, 2010, 81, .	1.1	9

#	Article	IF	CITATIONS
384	Single-ion nonlinear mechanical oscillator. Physical Review A, 2010, 82, .	1.0	34
385	Cavity quantum electrodynamics with a Rydberg-blocked atomic ensemble. Physical Review A, 2010, 82, .	1.0	68
386	Nonperturbative analysis of entanglement dynamics and control for three qubits in a common lossy cavity. Physical Review A, 2010, 82, .	1.0	38
387	Short-time-interaction quantum measurement through an incoherent mediator. Physical Review A, 2010, 81, .	1.0	2
388	Ion-induced density bubble in a strongly correlated one-dimensional gas. Physical Review A, 2010, 81, .	1.0	30
389	Observing different phases for the dynamics of entanglement in an ion trap. Physical Review A, 2010, 81,	1.0	12
390	Molecular heat pump for rotational states. Physical Review A, 2010, 81, .	1.0	7
391	Atom-ion quantum gate. Physical Review A, 2010, 81, .	1.0	86
392	Temperature-Driven Structural Phase Transition for Trapped Ions and a Proposal for its Experimental Detection. Physical Review Letters, 2010, 105, 265703.	2.9	25
393	Inelastic scattering and heating in a molecular spin pump. Physical Review B, 2010, 81, .	1.1	31
394	Resonant quantum gates in circuit quantum electrodynamics. Physical Review B, 2010, 82, .	1.1	45
395	Precision measurement of fermionic collisions using an ⁸⁷ Sr optical lattice clock with 1 × 10 ⁻¹⁶ inaccuracy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 574-582.	1.7	9
396	A single-atom detector integrated on an atom chip: fabrication, characterization and application. New Journal of Physics, 2010, 12, 095005.	1.2	25
397	A long DNA segment in a linear nanoscale Paul trap. Nanotechnology, 2010, 21, 015103.	1.3	18
398	Electrostatics of gapped and finite surface electrodes. New Journal of Physics, 2010, 12, 023038.	1.2	30
399	Quasi-perfect state transfer in a bosonic dissipative network. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 105503.	0.6	7
400	Simulating quantum effects of cosmological expansion using a static ion trap. New Journal of Physics, 2010, 12, 095019.	1.2	24
401	Quantum control of a Paul-trapped ion via double radio-frequency driving. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 455302.	0.7	4

#	Article	IF	CITATIONS
402	Superpositions of Degenerate Quantum States: Preparation and Detection in Atomic Beams. Advances in Atomic, Molecular and Optical Physics, 2010, 58, 113-172.	2.3	8
403	The localization of phonons in ion traps with controlled quantum disorder. New Journal of Physics, 2010, 12, 123016.	1.2	24
404	Quantum simulation and phase diagram of the transverse-field Ising model with three atomic spins. Physical Review B, 2010, 82, .	1.1	87
405	Zitterbewegung of relativistic electrons in a magnetic field and its simulation by trapped ions. Physical Review D, 2010, 82, .	1.6	29
406	Sudden vanishing of spin squeezing under decoherence. Physical Review A, 2010, 81, .	1.0	81
407	Strong couplings between artificial atoms and terahertz cavities. Optics Letters, 2010, 35, 1686.	1.7	6
408	Quantum optomechanics—throwing a glance [Invited]. Journal of the Optical Society of America B: Optical Physics, 2010, 27, A189.	0.9	247
409	Continuous-variable entanglement purification with atomic systems. Journal of the Optical Society of America B: Optical Physics, 2010, 27, A198.	0.9	5
410	Information encoding of a qubit into a multilevel environment. Physical Review A, 2010, 81, .	1.0	8
411	Cooling a quantum circuit via coupling to a multiqubit system. Physical Review A, 2010, 81, .	1.0	8
412	Cavity opto-mechanics using an optically levitated nanosphere. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1005-1010.	3.3	493
413	Protection of quantum information and optimal singlet conversion through higher-dimensional quantum systems and environment monitoring. Physical Review A, 2010, 81, .	1.0	14
414	<i>Colloquium</i> : Trapped ions as quantum bits: Essential numerical tools. Reviews of Modern Physics, 2010, 82, 2609-2632.	16.4	105
415	Cavity Optomechanics with Whispering-Gallery Mode Optical Micro-Resonators. Advances in Atomic, Molecular and Optical Physics, 2010, 58, 207-323.	2.3	84
416	Deep Strong Coupling Regime of the Jaynes-Cummings Model. Physical Review Letters, 2010, 105, 263603.	2.9	439
417	Nanoelectronics for DNA Sensing. Nanostructure Science and Technology, 2010, , 193-209.	0.1	1
418	Quantum Electrodynamics of One-Photon Wave Packets. Advances in Quantum Chemistry, 2010, , 457-483.	0.4	4
419	Phonon-mediated entanglement for trapped ion quantum computing. Reports on Progress in Physics, 2010, 73, 036401.	8.1	22

#	ARTICLE	IF	CITATIONS
420	Number-operator–annihilation-operator uncertainty as an alternative for the number-phase uncertainty relation. Physical Review A, 2010, 81, .	1.0	21
421	Symmetry principles in quantum system theory of multi-qubit systems made simple. , 2010, , .		1
422	Efficient Fiber Optic Detection of Trapped Ion Fluorescence. Physical Review Letters, 2010, 105, 023001.	2.9	70
423	Cooling of mechanical motion with a two-level system: The high-temperature regime. Physical Review B, 2010, 82, .	1.1	51
424	Correlations in phase space and the creation of focusing wave packets. Journal of Modern Optics, 2010, 57, 1437-1444.	0.6	6
425	Errors in zero-excitation state preparation due to anti-rotating terms in two-atom Markovian cavity QED. Physica Scripta, 2010, 82, 055401.	1.2	1
426	Quantum simulation of the transverse Ising model with trapped ions. New Journal of Physics, 2011, 13, 105003.	1.2	92
427	Pulsed quantum optomechanics. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16182-16187.	3.3	231
428	Zitterbewegung (trembling motion) of electrons in semiconductors: a review. Journal of Physics Condensed Matter, 2011, 23, 143201.	0.7	107
429	Efficient controlled-phase gate for single-spin qubits in quantum dots. Physical Review B, 2011, 83, .	1.1	75
430	Equivalence between Redfield- and master-equation approaches for a time-dependent quantum system and coherence control. Physical Review A, 2011, 83, .	1.0	17
431	Efficient algorithms for optimal control of quantum dynamics: the Krotov method unencumbered. New Journal of Physics, 2011, 13, 073029.	1.2	45
432	Tripartite nonlocality and continuous-variable entanglement in thermal states of trapped ions. Physical Review A, 2011, 84, .	1.0	15
433	Deterministic Entanglement of Photons in Two Superconducting Microwave Resonators. Physical Review Letters, 2011, 106, 060401.	2.9	170
434	Quantum superpositions of crystalline structures. Physical Review A, 2011, 84, .	1.0	27
435	Fano-Doppler Laser Cooling of Hybrid Nanostructures. ACS Nano, 2011, 5, 7354-7361.	7.3	27
436	Generation of Kerr non-Gaussian motional states of trapped ions. Europhysics Letters, 2011, 94, 54002.	0.7	13
437	Microwave quantum logic gates for trapped ions. Nature, 2011, 476, 181-184.	13.7	268

#	Article	IF	CITATIONS
438	Pattern Formation with Trapped Ions. Physical Review Letters, 2011, 106, 143001.	2.9	30
439	Symmetry principles in quantum systems theory. Journal of Mathematical Physics, 2011, 52, .	0.5	46
440	Simple trapped-ion architecture for high-fidelity Toffoli gates. Physical Review A, 2011, 84, .	1.0	12
441	Asymmetric Cooper pair transistor in parallel to a dc SQUID: Two coupled quantum systems. Physical Review B, 2011, 83, .	1.1	5
442	Generators of nonclassical states by a combination of linear coupling of boson modes, Kerr nonlinearity, and strong linear losses. Physical Review A, 2011, 84, .	1.0	3
443	Disorder overtakes order in information concentration over quantum networks. Physical Review A, 2011, 84, .	1.0	26
444	An Optimum Method for a Grooved 2D Planar Ion Trap Design. Chinese Physics Letters, 2011, 28, 073701.	1.3	3
445	Sideband excitation of trapped ions by rapid adiabatic passage for manipulation of motional states. Physical Review A, 2011, 84, .	1.0	11
446	Fidelity of structured amplitude-damping channels. Physica Scripta, 2011, 83, 045008.	1.2	1
447	Exact treatment for the entanglement of the multiphoton two-qubit system with the single-mode thermal field. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 2087.	0.9	3
448	Generation of entanglement density within a reservoir. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 065505.	0.6	8
449	Decoherence in crystals of quantum molecular magnets. Nature, 2011, 476, 76-79.	13.7	192
450	Integrability of the Rabi Model. Physical Review Letters, 2011, 107, 100401.	2.9	615
451	Wavelength-scale imaging of trapped ions using a phase Fresnel lens. Optics Letters, 2011, 36, 1371.	1.7	39
452	Intense-field-stimulated multiphoton transitions in a two-level system. Physical Review A, 2011, 84, .	1.0	1
453	Measurement of the internal state of a single atom without energy exchange. Nature, 2011, 475, 210-213.	13.7	93
454	Nonlinear coherent loss for generating non-classical states. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 325307.	0.7	5
455	Zitterbewegung (Trembling Motion) of Electrons in Graphene. , 0, , .		0

#	Article	IF	CITATIONS
456	An Introduction to Quantum Optomechanics. Acta Physica Slovaca, 2011, 61, .	1.4	56
457	Even and odd combinations of nonlinear coherent states. Journal of Physics: Conference Series, 2011, 274, 012142.	0.3	0
458	Heralded single-photon absorption by a singleÂatom. Nature Physics, 2011, 7, 17-20.	6.5	89
459	Coupled quantized mechanical oscillators. Nature, 2011, 471, 196-199.	13.7	219
460	Trapped-ion antennae for the transmission of quantum information. Nature, 2011, 471, 200-203.	13.7	136
461	Quantum informatics with single atoms. Russian Microelectronics, 2011, 40, 237-244.	0.1	2
462	Quantum computers: Achievements, implementation difficulties, and prospects. Russian Microelectronics, 2011, 40, 225-236.	0.1	9
463	Quantum jumps induced by the center-of-mass motion of a trapped atom. European Physical Journal D, 2011, 61, 21-32.	0.6	2
464	Macroscopic quantum control of exact many-body coherent states. European Physical Journal D, 2011, 61, 431-435.	0.6	6
465	State-dependent lattices for quantum computing with alkaline-earth-metal atoms. European Physical Journal D, 2011, 65, 207-217.	0.6	23
466	Atomic Wehrl entropy and negativity as entanglement measures for qudit pure states in a trapped ion. Journal of Russian Laser Research, 2011, 32, 287-297.	0.3	28
467	Quantum computing and quantum simulation with group-II atoms. Quantum Information Processing, 2011, 10, 865-884.	1.0	73
468	A single laser system for ground-state cooling of 25Mg+. Applied Physics B: Lasers and Optics, 2011, 104, 583-590.	1.1	29
469	All-optical ion generation for ion trap loading. Applied Physics B: Lasers and Optics, 2011, 104, 755-761.	1.1	15
470	A single trapped ion in a finite range trap. Annals of Physics, 2011, 326, 968-978.	1.0	6
471	Gas-Phase Fluorescence Excitation and Emission Spectroscopy of Three Xanthene Dyes (Rhodamine 575,) Tj ETQ American Society for Mass Spectrometry, 2011, 22, 93-109.	q1 1 0.784 1.2	4314 rgBT (71
472	Quantum information processing and metrology with trapped ions. Laser Physics Letters, 2011, 8, 175-188.	0.6	80
473	Fabrication and heating rate study of microscopic surface electrode ion traps. New Journal of Physics, 2011, 13, 013032.	1.2	80

#	Article	IF	Citations
474	Normal modes of trapped ions in the presence of anharmonic trap potentials. New Journal of Physics, 2011, 13, 073026.	1.2	59
475	Realization of Fast Rabi Oscillations in Radio Frequency Magnetic Resonance of Ground Zeeman States of \$^{40}\$Ca\$^{+}\$. Japanese Journal of Applied Physics, 2011, 50, 122801.	0.8	1
476	Correlations and pair emission in the escape dynamics of ions from one-dimensional traps. New Journal of Physics, 2011, 13, 023006.	1.2	2
477	Influence of the vibrational modes in the transmission of electronic states of trapped ions in different coupled cavities. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 115507.	0.6	0
478	Equilibration and temperature distribution in a driven ion chain. New Journal of Physics, 2011, 13, 075015.	1.2	26
479	Kinetics of a single trapped ion in an ultracold buffer gas. New Journal of Physics, 2011, 13, 053020.	1.2	54
480	Rydberg excitation of trapped cold ions: a detailed case study. New Journal of Physics, 2011, 13, 075014.	1.2	37
481	Relativistic quantum mechanics with trapped ions. New Journal of Physics, 2011, 13, 095003.	1.2	64
482	Non-locality of two ultracold trapped atoms. New Journal of Physics, 2011, 13, 023016.	1.2	7
483	The Fermi problem in discrete systems. New Journal of Physics, 2011, 13, 075016.	1.2	8
484	Synthetic Gauge Fields for Vibrational Excitations of Trapped Ions. Physical Review Letters, 2011, 107, 150501.	2.9	109
485	Rapid and Robust Spin State Amplification. Physical Review Letters, 2011, 106, 167204.	2.9	8
486	Detecting ground-state qubit self-excitations in circuit QED: A slow quantum anti-Zeno effect. Physical Review B, 2011, 84, .	1.1	6
487	Ultrahigh-resolution spectroscopy with atomic or molecular dark resonances: Exact steady-state line shapes and asymptotic profiles in the adiabatic pulsed regime. Physical Review A, 2011, 84, .	1.0	35
488	Nonlocality of Foldy-Wouthuysen and related transformations for the Dirac equation. Physical Review A, 2011, 84, .	1.0	5
489	Feasibility of loophole-free nonlocality tests with a single photon. Physical Review A, 2011, 84, .	1.0	21
490	Propagator for the general time-dependent harmonic oscillator with application to an ion trap. Physical Review A, 2011, 84, .	1.0	21
491	Single-photon absorption and dynamic control of the exciton energy in a coupled quantum-dot–cavity system. Physical Review A, 2011, 84, .	1.0	18

		CITATION REPORT		
#	Article		IF	CITATIONS
492	Laser cooling of a trapped particle with increased Rabi frequencies. Physical Review A, 2	2011, 84, .	1.0	7
493	Scavenging quantum information: Multiple observations of quantum systems. Physical 84, .	Review A, 2011,	1.0	11
494	Scalable uniform construction of highly conditional quantum gates. Physical Review A,	2011, 84, .	1.0	14
495	Comparing, optimizing, and benchmarking quantum-control algorithms in a unifying pr framework. Physical Review A, 2011, 84, .	ogramming	1.0	180
496	Nonlinear Bose-Einstein-condensate dynamics induced by a harmonic modulation of th xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mi>s</mml:mi> -wave scattering length. Physical R	e <mml:math eview A, 2011, 84, .</mml:math 	1.0	56
497	Coherently manipulating cold ions in separated traps by their vibrational couplings. Phy A, 2011, 83, .	vsical Review	1.0	2
498	Optomechanical sideband cooling of a micromechanical oscillator close to the quantur state. Physical Review A, 2011, 83, .	n ground	1.0	148
499	Hopping of an impurity defect in ion crystals in linear traps. Physical Review A, 2011, 8:	3, .	1.0	5
500	Ion-assisted ground-state cooling of a trapped polar molecule. Physical Review A, 2011	, 83, .	1.0	10
501	Adiabatic coherent control in the anharmonic ion trap: Proposal for the vibrational two system. Physical Review A, 2011, 83, .	qubit	1.0	6
502	Potential of electric quadrupole transitions in radium isotopes for single-ion optical free standards. Physical Review A, 2011, 83, .	Juency	1.0	17
503	High-efficiency tomographic reconstruction of quantum states by quantum nondemoli measurements. Physical Review A, 2011, 83, .	tion	1.0	6
504	Adiabatic coherent control in the anharmonic ion trap: Numerical analysis of vibrationa anharmonicities. Physical Review A, 2011, 83, .	I	1.0	11
505	Quantum Simulation of Quantum Field Theories in Trapped Ions. Physical Review Letter 260501.	rs, 2011, 107,	2.9	72
506	Frustrated Quantum Spin Models with Cold Coulomb Crystals. Physical Review Letters, 207209.	2011, 107,	2.9	36
507	Realization of robust single-qubit operations with purely geometric phase factors. , 201	.1, , .		0
508	Ion Crystal Transducer for Strong Coupling between Single Ions and Single Photons. Ph Letters, 2011, 107, 030501.	iysical Review	2.9	30
509	Microwave Guiding of Electrons on a Chip. Physical Review Letters, 2011, 106, 193001		2.9	31

#	ARTICLE Lattice-Induced Frequency Shifts in Sr Optical Lattice Clocks at the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathMI "</mml:math 	IF	CITATIONS
510	display="inline"> <mml:msup><mml:mn>10</mml:mn><mml:mrow><mml:mo>â^'</mml:mo><mml:mn>17Physical Review Letters, 2011, 106, 210801.</mml:mn></mml:mrow></mml:msup>	ıl:mn> <td>ml:mrow></td>	ml:mrow>
511	Trapped ions in optical lattices for probing oscillator chain models. New Journal of Physics, 2011, 13, 075012.	1.2	86
513	Probing quantum cores of optical vortices with atoms. Proceedings of SPIE, 2011, , .	0.8	1
514	Asymptotic mean excitation numbers due to anti-rotating term (AMENDART) in Markovian circuit QED. Journal of Physics: Conference Series, 2011, 274, 012137.	0.3	4
515	Entangling a Series of Trapped Ions by Moving Cavity Bus. Chinese Physics Letters, 2011, 28, 064213.	1.3	0
516	Planar microwave structures for electron guiding. New Journal of Physics, 2011, 13, 095012.	1.2	9
517	Two-dimensional arrays of radio-frequency ion traps with addressable interactions. New Journal of Physics, 2011, 13, 073043.	1.2	50
518	Nonlinear dynamics of two coupled nano-electromechanical resonators. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 215402.	0.6	14
519	The trapped-ion qubit tool box. Contemporary Physics, 2011, 52, 531-550.	0.8	33
520	Time-dependent density functional theory of open quantum systems in the linear-response regime. Journal of Chemical Physics, 2011, 134, 074116.	1.2	22
521	Nonlinear resonances caused by coherent, optical pumping and saturating effects in the presence of three laser fields for the ⁸⁵ Rb-D ₂ line. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 115501.	0.6	13
522	Experimental simulation and limitations of quantum walks with trapped ions. New Journal of Physics, 2012, 14, 035012.	1.2	25
523	Controlling trapping potentials and stray electric fields in a microfabricated ion trap through design and compensation. New Journal of Physics, 2012, 14, 073012.	1.2	58
524	Phonon-induced entanglement dynamics of two donor-based charge quantum bits. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 015503.	0.6	1
526	Modes of oscillation in radiofrequency Paul traps. New Journal of Physics, 2012, 14, 093023.	1.2	53
527	Quantum simulation of spin models on an arbitrary lattice with trapped ions. New Journal of Physics, 2012, 14, 095024.	1.2	106
528	A confined system with Rashba coupling in a constant magnetic field. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 505306.	0.7	0
529	Optimal time-resolved photon number distribution reconstruction of a cavity field by maximum likelihood. New Journal of Physics, 2012, 14, 115007.	1.2	11

ARTICLE IF CITATIONS # Quantum state preparation and control of single molecular ions. New Journal of Physics, 2012, 14, 530 1.2 39 023029. Quantum magnetism of spin-ladder compounds with trapped-ion crystals. New Journal of Physics, 2012, 1.2 14,093042. Construction of time-dependent dynamical invariants: A new approach. Journal of Mathematical 532 0.5 13 Physics, 2012, 53, . Combining red and blue-detuned optical potentials to form a Lamb-Dicke trap for a single neutral atom. Optics Express, 2012, 20, 3711. An apparatus for immersing trapped ions into an ultracold gas of neutral atoms. Review of Scientific 534 0.6 32 Instruments, 2012, 83, 053108. Quantum Simulation of Small-Polaron Formation with Trapped Ions. Physical Review Letters, 2012, 109, 250501. Digital Quantum Simulation of the Holstein Model in Trapped Ions. Physical Review Letters, 2012, 109, 536 2.9 61 200501. Micromotion-Induced Limit to Atom-Ion Sympathetic Cooling in Paul Traps. Physical Review Letters, 2.9 121 2012, 109, 253201. Interaction Enhanced Imaging of Individual Rydberg Atoms in Dense Gases. Physical Review Letters, 538 2.9 85 2012, 108, 013002. Ultrafast Quantum Gates in Circuit QED. Physical Review Letters, 2012, 108, 120501. 170 Controlling Fast Transport of Cold Trapped Ions. Physical Review Letters, 2012, 109, 080501. 540 2.9 193 Quantum Simulation of Interacting Fermion Lattice Models in Trapped Ions. Physical Review Letters, 98 2012, 108, 190502. Cooling by heating in the quantum optics domain. Physical Review A, 2012, 86, . 542 1.0 6 Dark-state suppression and optimization of laser cooling and fluorescence in a trapped alkaline-earth-metal single ion. Physical Review A, 2012, 86, . 543 1.0 Robust multipartite quantum correlations without complex encodings. Physical Review A, 2012, 86, . 544 1.0 17 Loading of a surface-electrode ion trap from a remote, precooled source. Physical Review A, 2012, 86, . 545 34 Preparation and entanglement purification through two-step measurements. Physical Review A, 2012, 546 1.0 4 86, . 547 Nonequilibrium phonon dynamics in trapped-ion systems. Physical Review A, 2012, 85, .

		Citation Report		
#	Article		IF	CITATIONS
548	Adiabatic Mach-Zehnder interferometer via an array of trapped ions. Physical Review A, 2012, 85, .		1.0	10
549	Reconstructing the quantum state of oscillator networks with a single qubit. Physical Review A, 201 85, .	.2,	1.0	16
550	Sub-millikelvin spatial thermometry of a single Doppler-cooled ion in a Paul trap. Physical Review A, 2012, 85, .		1.0	25
551	Simulating accelerated atoms coupled to a quantum field. Physical Review A, 2012, 85, .		1.0	22
552	Temperature-independent quantum logic for molecular spectroscopy. Physical Review A, 2012, 85,		1.0	41
553	Detection and decoherence of level-crossing resonances of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>8</mml:mn></mml:mrow </mml:msup>Li in Cu. Physical Review B, 2012, 85, .</mml:math 		1.1	6
554	Coherent Frequency Conversion in a Superconducting Artificial Atom with Two Internal Degrees of Freedom. Physical Review Letters, 2012, 108, 107001.		2.9	13
555	Cryogenic linear Paul trap for cold highly charged ion experiments. Review of Scientific Instruments 2012, 83, 083115.		0.6	62
556	Energy transport in closed quantum systems. Physical Review E, 2012, 85, 031109.		0.8	7
557	A monolithic array of three-dimensional ion traps fabricated with conventional semiconductor technology. Nature Nanotechnology, 2012, 7, 572-576.		15.6	46
558	Quantum Gate Implementations in the Separated Ion-Traps by Fast Laser Pulses. Chinese Physics Le 2012, 29, 080301.	tters,	1.3	4
559	High NOON states in trapped ions. Physica Scripta, 2012, T147, 014028.		1.2	3
560	Non-locality of energy separating transformations for Dirac electrons in a magnetic field. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 315301.		0.7	1
561	The nonrelativistic limit of the Majorana equation and its simulation in trapped ions. Physica Scripta 2012, T147, 014017.	,	1.2	7
562	Control aspects of quantum computing using pure and mixed states. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 4651-4670.		1.6	15
563	Entanglement resonances of driven multi-partite quantum systems. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 154011.		0.6	15
564	Cooling a Single Atom in an Optical Tweezer to Its Quantum Ground State. Physical Review X, 2012	2, 2, .	2.8	198
565	Precise Experimental Investigation of Eigenmodes in a Planar Ion Crystal. Physical Review Letters, 20 109, 263003.	012,	2.9	49

#	Article	IF	CITATIONS
566	Colloquium: Multiparticle quantum superpositions and the quantum-to-classical transition. Reviews of Modern Physics, 2012, 84, 1765-1789.	16.4	24
567	Quantum quenches of ion Coulomb crystals across structural instabilities. Physical Review A, 2012, 86, .	1.0	25
568	Operating a ⁸⁷ Sr optical lattice clock with high precision and at high density. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 416-425.	1.7	34
569	Quantum tomography in position and momentum space. European Physical Journal D, 2012, 66, 1.	0.6	8
570	Surface codes: Towards practical large-scale quantum computation. Physical Review A, 2012, 86, .	1.0	1,607
571	Cavity cooling of a trapped atom using electromagnetically induced transparency. New Journal of Physics, 2012, 14, 023002.	1.2	33
572	Quantum optomechanics. Physics Today, 2012, 65, 29-35.	0.3	504
573	Experimental quantum simulations of many-body physics with trapped ions. Reports on Progress in Physics, 2012, 75, 024401.	8.1	270
574	Tunable ion–photon entanglement in an optical cavity. Nature, 2012, 485, 482-485.	13.7	178
575	Quantum Zeno dynamics of a field in a cavity. Physical Review A, 2012, 86, .	1.0	78
576	Quantum Optics. , 2012, , 1305-1333.		3
577	Translational Effects on Electronic and Nuclear Ring Currents. Journal of Physical Chemistry A, 2012, 116, 11283-11303.	1.1	4
578	Space-Time Crystals of Trapped Ions. Physical Review Letters, 2012, 109, 163001.	2.9	137
579	Coherent Diabatic Ion Transport and Separation in a Multizone Trap Array. Physical Review Letters, 2012, 109, 080502.	2.9	194
580	Zitterbewegung study in Dirac oscillator with laser pulse. European Physical Journal B, 2012, 85, 1.	0.6	17
581	The coherent interaction between matter and radiation. European Physical Journal: Special Topics, 2012, 203, 163-183.	1.2	13
582	Quantum decoherence under phase damping in non-inertial frames. Journal of Modern Optics, 2012, 59, 21-25.	0.6	14
583	Quantum Simulation of the Cooperative Jahn-Teller Transition in 1D Ion Crystals. Physical Review Letters, 2012, 108, 235701.	2.9	31

	Сітат	CITATION REPORT	
#	Article	IF	CITATIONS
584	Cosmological inflation and the quantum measurement problem. Physical Review D, 2012, 86, .	1.6	104
585	Robust two-dimensional subrecoil Raman cooling by adiabatic transfer in a tripod atomic system. Physical Review A, 2012, 86, .	1.0	0
586	Cooling the motion of a trapped atom with a cavity field. Physical Review A, 2012, 86, .	1.0	14
587	Quantum Interface between an Electrical Circuit and a Single Atom. Physical Review Letters, 2012, 108, 130504.	2.9	30
588	Multipartite entanglement generation assisted by inhomogeneous coupling. Physical Review A, 2012, 85,	1.0	6
589	Single-Ion Heat Engine at Maximum Power. Physical Review Letters, 2012, 109, 203006.	2.9	362
590	Coulomb-crystallised molecular ions in traps: methods, applications, prospects. International Reviews in Physical Chemistry, 2012, 31, 175-199.	0.9	102
591	Collective strong coupling between ion Coulomb crystals and an optical cavity field: Theory and experiment. Physical Review A, 2012, 85, .	1.0	17
592	Interferometric thermometry of a single sub-Doppler-cooled atom. Physical Review A, 2012, 85, .	1.0	21
593	Classical and quantum modes of coupled Mathieu equations. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 455305.	0.7	29
594	Stability of an aqueous quadrupole micro-trap. Journal of Physics Condensed Matter, 2012, 24, 164208.	0.7	5
595	Dynamical Recurrence and the Quantum Control of Coupled Oscillators. Physical Review Letters, 2012, 108, 150501.	2.9	17
596	Massless Dirac fermions in an electromagnetic field. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P01021.	0.9	9
597	Exploring Frontiers of the Mind-Brain Relationship. , 2012, , .		10
598	Subnatural Linewidth Single Photons from a Quantum Dot. Physical Review Letters, 2012, 108, 093602.	2.9	214
599	Algebraic treatment of the time-dependent Jaynes–Cummings Hamiltonian including nonlinear terms. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 385303.	0.7	21
600	Large two dimensional Coulomb crystals in a radio frequency surface ion trap. Applied Physics Letters, 2012, 100, .	1.5	26
601	Entanglement of formation for a family of(2⊗d)-dimensional systems. Physical Review A, 2012, 85, .	1.0	17

#	Article	IF	Citations
602	Robust trapped-ion quantum logic gates by continuous dynamical decoupling. Physical Review A, 2012, 85, .	1.0	80
603	Fundamental quantum optics experiments conceivable with satellites—reaching relativistic distances and velocities. Classical and Quantum Gravity, 2012, 29, 224011.	1.5	131
604	Resonance fluorescence from a single quantum dot. , 0, , 86-102.		0
605	Ultracold Atoms and Molecules in Optical Lattices. Contemporary Concepts of Condensed Matter Science, 2012, 5, 121-156.	0.5	1
606	Multiphoton entanglement and interferometry. Reviews of Modern Physics, 2012, 84, 777-838.	16.4	1,007
607	Time-reversal symmetry in optics*. Physica Scripta, 2012, 85, 058101.	1.2	26
608	Quantum simulations with trapped ions. Nature Physics, 2012, 8, 277-284.	6.5	1,135
609	Short-time quantum detection: Probing quantum fluctuations. Physical Review A, 2012, 85, .	1.0	5
610	Entanglement trapping in a nonstationary structured reservoir. Physical Review A, 2012, 86, .	1.0	23
611	Quantum decoherence with the Unruh single-particle state having right and left components. Journal of Modern Optics, 2012, 59, 571-578.	0.6	7
612	A steady-state superradiant laser with less than one intracavity photon. Nature, 2012, 484, 78-81.	13.7	362
613	Micromotion in trapped atom-ion systems. Physical Review A, 2012, 85, .	1.0	29
614	Encoding relativistic potential dynamics into free evolution. Physical Review A, 2012, 85, .	1.0	5
615	Dark-state laser cooling of a trapped ion using standing waves. Physical Review A, 2012, 85, .	1.0	19
616	Master-equation approach to optomechanics with arbitrary dielectrics. Physical Review A, 2012, 86, .	1.0	40
617	Full-trapped three-level ion in the lamb–dicke limit: analyzing and comparing quantum entanglement measures of two qudits. Journal of Russian Laser Research, 2012, 33, 42-51.	0.3	8
618	Single atoms in the ring lattice for quantum information processing and quantum simulation. Science Bulletin, 2012, 57, 1931-1945.	1.7	13
619	Recent Progress of Single-Ion Optical Frequency Standards. Mapan - Journal of Metrology Society of India, 2012, 27, 3-7.	1.0	0

#	Article	IF	Citations
620	Combined ion and atom trap for low-temperature ion–atom physics. Applied Physics B: Lasers and Optics, 2012, 107, 971-981.	1.1	22
621	Quantum control of 88Sr+ in a miniature linear Paul trap. Applied Physics B: Lasers and Optics, 2012, 107, 1167-1174.	1.1	22
622	A quantum sensor for high-performance mass spectrometry. Applied Physics B: Lasers and Optics, 2012, 107, 1031-1042.	1.1	24
623	Toward an ion–photon quantum interface in an optical cavity. Applied Physics B: Lasers and Optics, 2012, 107, 1145-1157.	1.1	25
624	Background-free detection of trapped ions. Applied Physics B: Lasers and Optics, 2012, 107, 1175-1180.	1.1	7
625	Interaction of a laser with a qubit in thermal motion and its application to robust and efficient readout. Applied Physics B: Lasers and Optics, 2012, 107, 1159-1165.	1.1	7
626	Synthesis of two-species ion chains for a new optical frequency standard with an indium ion. Applied Physics B: Lasers and Optics, 2012, 107, 965-970.	1.1	16
627	Ion–laser interactions: The most complete solution. Physics Reports, 2012, 513, 229-261.	10.3	46
628	Optimal quantum estimation of the coupling constant of Jaynes-Cummings interaction. European Physical Journal: Special Topics, 2012, 203, 49-60.	1.2	6
629	Solvable model of dissipative dynamics in the deep strong coupling regime. European Physical Journal: Special Topics, 2012, 203, 207-216.	1.2	4
630	Exact solution of the ionâ€laser interaction in all regimes. Annalen Der Physik, 2012, 524, 107-111.	0.9	2
631	Characterization of an Electron Ionization Source Trap Operating in the Presence of a Magnetic Field Through Computer Simulation. Journal of the American Society for Mass Spectrometry, 2013, 24, 1130-1136.	1.2	2
632	Quantification of Mixed-State Entanglement in a Quantum System Interacting with Two Time-Dependent Lasers. Journal of Russian Laser Research, 2013, 34, 192-202.	0.3	7
633	Generation of macroscopic quantum superpositions of optomechanical oscillators by dissipation. Physical Review A, 2013, 88, .	1.0	62
634	Joint System Quantum Descriptions Arising from Local Quantumness. Communications in Mathematical Physics, 2013, 322, 501-513.	1.0	1
635	The most precise atomic mass measurements in Penning traps. International Journal of Mass Spectrometry, 2013, 349-350, 107-122.	0.7	43
636	Quantum dynamics of a three-level trapped ion under a time-dependent interaction with laser beams. European Physical Journal D, 2013, 67, 1.	0.6	8
637	Gaussian tripartite entanglement out of equilibrium. Physical Review A, 2013, 88, .	1.0	15
	CITATION R	CITATION REPORT	
-----	--	-------------------	----------------------------
#	Article	IF	Citations
638	Optimal Coherent Control to Counteract Dissipation. Physical Review Letters, 2013, 111, 030405.	2.9	34
639	Microwave control of atomic motional states in a spin-dependent optical lattice. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 104006.	0.6	44
640	Nobel Lecture: Superposition, entanglement, and raising Schrödinger's cat. Reviews of Modern Physics, 2013, 85, 1103-1114.	16.4	382
641	Spin coherent states in NMR quadrupolar system: experimental and theoretical applications. European Physical Journal D, 2013, 67, 1.	0.6	11
642	Entangled-state engineering of vibrational modes in a multimembrane optomechanical system. Physical Review A, 2013, 88, .	1.0	68
643	Überlagerungen, Verschräkungen und Schrödingers Katze (Nobelâ€Aufsatz). Angewandte Chemie, 2013, 125, 10367-10378.	1.6	1
644	Superposition, Entanglement, and Raising Schrödinger's Cat (Nobel Lecture). Angewandte Chemie - International Edition, 2013, 52, 10179-10189.	7.2	11
645	Motional entanglement with trapped ions and a nanomechanical resonator. Physical Review A, 2013, 88, .	1.0	6
646	Heralded Entanglement of Two lons in an Optical Cavity. Physical Review Letters, 2013, 111, 100505.	2.9	64
647	Mesoscopic mean-field theory for spin-boson chains in quantum optical systems. European Physical Journal: Special Topics, 2013, 217, 29-41.	1.2	9
648	Two-level system with broken inversion symmetry coupled to a quantum harmonic oscillator. Physical Review A, 2013, 88, .	1.0	6
649	Optical trapping and manipulation of nanostructures. Nature Nanotechnology, 2013, 8, 807-819.	15.6	829
650	Absolute frequency measurement of ¹ S ₀ (<i>F</i> =) Tj ETQq0 0 0 rgBT /Overlock 10 T one-dimensional optical lattice at KRISS. Metrologia, 2013, 50, 119-128.	f 50 267 T 0.6	d (1/2)– <sı 69</sı
651	Fundamental limit to qubit control with coherent field. Physical Review A, 2013, 87, .	1.0	3
652	Centre-of-mass motion-induced decoherence and entanglement generation in a hybrid quantum repeater. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 235501.	0.6	6
653	Quantum Synchronization of Quantum van der Pol Oscillators with Trapped Ions. Physical Review Letters, 2013, 111, 234101.	2.9	206
654	Diamond NV centers for quantum computing and quantum networks. MRS Bulletin, 2013, 38, 134-138.	1.7	320
655	Two-photon spectroscopy of trapped HD <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mo>+</mml:mo></mml:mrow </mml:msup>ions in the Lamb-Dicke regime. Physical Review A, 2013, 88, .</mml:math 	1.0	28

#	Article	IF	CITATIONS
656	Generation of steady three- and four-dimensional entangled states via quantum-jump-based feedback. Quantum Information Processing, 2013, 12, 3167-3178.	1.0	15
657	Protecting superconducting qubits with a universal quantum degeneracy point. Superconductor Science and Technology, 2013, 26, 114002.	1.8	5
658	Cold highly charged ions in a cryogenic Paul trap. Hyperfine Interactions, 2013, 214, 189-194.	0.2	9
659	Fabrication of a Monolithic Array of Three Dimensional Si-based Ion Traps. Journal of Microelectromechanical Systems, 2013, 22, 1180-1189.	1.7	9
660	Engineering of nonclassical motional states in optomechanical systems. Physical Review A, 2013, 88, .	1.0	44
662	Science Librarians Analysis of the 2012 Nobel Prize in Physics: Observing the Quantum. Science and Technology Libraries, 2013, 32, 1-12.	0.8	0
663	Analytical eigenstates for the quantum Rabi model. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 415302.	0.7	110
664	Controllable quantum correlations of two-photon states generated using classically driven three-level atoms. Annals of Physics, 2013, 331, 97-109.	1.0	11
665	Atomic clocks for controlling light fields. Physics Today, 2013, 66, 27-32.	0.3	19
666	Quantum Interfaces Between Atomic and Solid-State Systems. Annual Review of Condensed Matter Physics, 2013, 4, 83-112.	5.2	17
667	Hybrid circuit cavity quantum electrodynamics with a micromechanical resonator. Nature, 2013, 494, 211-215.	13.7	230
668	Chaos-driven dynamics in spin-orbit-coupled atomic gases. Physical Review A, 2013, 87, .	1.0	40
669	Controllable Optical Phase Shift Over One Radian from a Single Isolated Atom. Physical Review Letters, 2013, 110, 113605.	2.9	13
670	Understanding quantum measurement from the solution of dynamical models. Physics Reports, 2013, 525, 1-166.	10.3	160
671	Dynamical correlation functions and the quantum Rabi model. Physical Review A, 2013, 87, .	1.0	41
672	Self-Organization of Atoms along a Nanophotonic Waveguide. Physical Review Letters, 2013, 110, 113606.	2.9	117
673	Quantum-state transfer from an ion to a photon. Nature Photonics, 2013, 7, 219-222.	15.6	82
674	Dissipative dynamics of quantum correlations in the strong-coupling regime. Physical Review A, 2013, 87, .	1.0	27

	CITATION R	CITATION REPORT	
#	ARTICLE	IF	CITATIONS
675	Thermodynamic length for far-from-equilibrium quantum systems. Physical Review E, 2013, 87, 022143.	0.8	42
676	Scaling the Ion Trap Quantum Processor. Science, 2013, 339, 1164-1169.	6.0	529
677	Laser cooling of externally produced Mg ions in a Penning trap for sympathetic cooling of highly charged ions. Physical Review A, 2013, 87, .	1.0	41
678	Entanglement sudden birth and sudden death in a system of two distant atoms coupled via an optical element. Journal of Modern Optics, 2013, 60, 331-341.	0.6	2
679	Models of wave-function collapse, underlying theories, and experimental tests. Reviews of Modern Physics, 2013, 85, 471-527.	16.4	775
680	Cavity Optomechanics of Levitated Nanodumbbells: Nonequilibrium Phases and Self-Assembly. Physical Review Letters, 2013, 110, 143604.	2.9	33
681	Processing Quantum Information with Relativistic Motion of Atoms. Physical Review Letters, 2013, 110, 160501.	2.9	48
682	Magnetization-noise-induced collapse and revival of Rabi oscillations in circuit QED. Physical Review A, 2013, 87, .	1.0	7
683	Resonances in dissipative optomechanics with nanoparticles: Sorting, speed rectification, and transverse cooling. Physical Review A, 2013, 87, .	1.0	12
684	Ground-State Cooling of a Single Atom at the Center of an Optical Cavity. Physical Review Letters, 2013, 110, 223003.	2.9	80
685	Progress and trend of narrow-linewidth lasers. Science China Technological Sciences, 2013, 56, 1589-1596.	2.0	7
686	The minimum-uncertainty squeezed states for atoms and photons in a cavity. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 104007.	0.6	18
687	Nuclear spins keep coming back. Nature Materials, 2013, 12, 469-471.	13.3	4
688	Entanglement-enhanced detection of single-photon scattering events. Nature Photonics, 2013, 7, 630-633.	15.6	63
689	Extracting Quantum Work Statistics and Fluctuation Theorems by Single-Qubit Interferometry. Physical Review Letters, 2013, 110, 230601.	2.9	247
690	Perspective: The glass transition. Journal of Chemical Physics, 2013, 138, 12A301.	1.2	287
691	Creation of arbitrary Dicke and NOON states of trapped-ion qubits by global addressing with composite pulses. New Journal of Physics, 2013, 15, 023039.	1.2	19
692	Spiral laser beams in inhomogeneous media. Optics Letters, 2013, 38, 2763.	1.7	14

#	Article	IF	CITATIONS
693	Emergence and Frustration of Magnetism with Variable-Range Interactions in a Quantum Simulator. Science, 2013, 340, 583-587.	6.0	366
694	Spatially uniform single-qubit gate operations with near-field microwaves and composite pulse compensation. New Journal of Physics, 2013, 15, 083053.	1.2	32
695	Quantum Simulation of Noncausal Kinematic Transformations. Physical Review Letters, 2013, 111, 090503.	2.9	16
696	Dynamics and decoherence in the central spin model in the low-field limit. Physical Review B, 2013, 88, .	1.1	41
697	On the solvability of the quantum Rabi model and its 2-photon and two-mode generalizations. Journal of Mathematical Physics, 2013, 54, .	0.5	47
698	Structure, dynamics and bifurcations of discrete solitons in trapped ion crystals. New Journal of Physics, 2013, 15, 093003.	1.2	34
699	Topological qubits with Majorana fermions in trapped ions. New Journal of Physics, 2013, 15, 033005.	1.2	10
700	Hill's determinant approach to single-mode spin-boson model. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 435303.	0.7	1
701	Parallel execution of quantum gates in a long linear ion chain via Rydberg mode shaping. Physical Review A, 2013, 87, .	1.0	20
702	Modular cryostat for ion trapping with surface-electrode ion traps. Review of Scientific Instruments, 2013, 84, 043112.	0.6	16
703	Entanglement and analytical continuation: an intimate relation told by the Riemann zeta function. New Journal of Physics, 2013, 15, 063009.	1.2	13
704	Coupling of nitrogen vacancy centres in nanodiamonds by means of phonons. New Journal of Physics, 2013, 15, 083014.	1.2	52
705	New symmetry in the Rabi model. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 265302.	0.7	9
706	Driven geometric phase gates with trapped ions. New Journal of Physics, 2013, 15, 083001.	1.2	25
707	Emission spectrum of a harmonically trapped \hat{b} -type three-level atom. Chinese Physics B, 2013, 22, 054204.	0.7	3
708	Entanglement in dissipative dynamics of identical particles. Europhysics Letters, 2013, 104, 40004.	0.7	22
709	Experimental creation and analysis of displaced number states. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 104008.	0.6	20
710	Mesoscopic entangled coherent states implemented with a circuit quantum electrodynamics system. Chinese Physics B, 2013, 22, 050308.	0.7	0

#	Article	IF	CITATIONS
711	Generation of steady four-atom decoherence-free states via quantum-jump-based feedback. Chinese Physics B, 2013, 22, 100308.	0.7	1
712	Quantum State Orthogonalization and a Toolset for Quantum Optomechanical Phonon Control. Physical Review Letters, 2013, 110, 010504.	2.9	67
713	Deterministic generation of arbitrary symmetric states and entanglement classes. Physical Review A, 2013, 87, .	1.0	16
714	Proposal for trapped-ion emulation of the electric dipole moment of neutral relativistic particles. Physical Review A, 2013, 87, .	1.0	11
715	Partial decoherence and thermalization through time-domain ergodicity. Physical Review A, 2013, 87, .	1.0	1
716	Suppression of Ion Transport due to Long-Lived Subwavelength Localization by an Optical Lattice. Physical Review Letters, 2013, 111, 163002.	2.9	39
717	Aberration-corrected quantum temporal imaging system. Physical Review A, 2013, 87, .	1.0	18
718	Quantum collapses and revivals of matter wave in dynamics of symmetry breaking. Physical Review B, 2013, 87, .	1.1	0
719	Quantum quenches of ion Coulomb crystals across structural instabilities. II. Thermal effects. Physical Review A, 2013, 87, .	1.0	4
720	Heralded generation of a micro-macro entangled state. Physical Review A, 2013, 88, .	1.0	27
721	Superposition, entanglement, and raising SchrĶdinger's cat. Annalen Der Physik, 2013, 525, 739-752.	0.9	11
722	Nonadiabatic Effects in Ultracold Molecules via Anomalous Linear and Quadratic Zeeman Shifts. Physical Review Letters, 2013, 111, 243003.	2.9	33
723	Mollow triplet for cavity-mediated laser cooling. Physical Review A, 2013, 88, .	1.0	4
724	Resonant few-photon excitation of a single-ion oscillator. Physical Review A, 2013, 87, .	1.0	9
725	Quantum feedback experiments stabilizing Fock states of light in a cavity. Physical Review A, 2013, 87, .	1.0	24
726	Pulsed phonon lasing in trapped ions. Physical Review A, 2013, 87, .	1.0	8
727	Demonstrating a Driven Reset Protocol for a Superconducting Qubit. Physical Review Letters, 2013, 110, 120501.	2.9	147
728	Minimization of ion micromotion using ultracold atomic probes. Applied Physics Letters, 2013, 102, .	1.5	21

#	Article	IF	CITATIONS
729	Ramp Dynamics of Phonons in an Ion Trap: Entanglement Generation and Cooling. Physical Review Letters, 2013, 111, 170406.	2.9	7
730	Emulating quantum cubic nonlinearity. Physical Review A, 2013, 88, .	1.0	63
731	Parity breaking and scaling behavior in light-matter interaction. Physical Review A, 2013, 88, .	1.0	13
732	Background-Free Doppler Cooling of Trapped Ions Using Quadrupole Transition. Chinese Physics Letters, 2013, 30, 033701.	1.3	2
733	Unitary decoupling treatment of a quadratic bimodal cavity quantum electrodynamics model. Physica Scripta, 2013, T153, 014032.	1.2	0
734	A high-rate source for single photons in a pure quantum state. New Journal of Physics, 2013, 15, 055005.	1.2	20
735	Dissipative ground-state preparation of a spin chain by a structured environment. New Journal of Physics, 2013, 15, 073027.	1.2	34
736	Unitary Representations of Quantum Superpositions of Two Coherent States and Beyond. Open Systems and Information Dynamics, 2013, 20, 1340004.	0.5	2
737	On the possibility of a relativistic correction to the E and B fields around a current-carrying wire. Journal of Physics: Conference Series, 2013, 437, 012013.	0.3	3
738	Quantum Networks with Atoms and Photons. Journal of Physics: Conference Series, 2013, 467, 012008.	0.3	2
739	No-go theorem for ground state cooling given initial system-thermal bath factorization. Scientific Reports, 2013, 3, 1824.	1.6	23
740	Quantum Science and Metrology with Mixed-Species Ion Chains. Advances in Atomic, Molecular and Optical Physics, 2013, 62, 231-277.	2.3	32
742	Enhancement of electromagnetically induced transparency cooling by an optical cavity. Chinese Physics B, 2014, 23, 113701.	0.7	0
743	Nonequilibrium work equalities in isolated quantum systems. Chinese Physics B, 2014, 23, 070512.	0.7	6
744	Reflectivity and transmissivity of a cavity coupled to a nanoparticle. International Journal of Quantum Information, 2014, 12, 1450025.	0.6	0
745	Quantum Information and Coherence. , 2014, , .		4
746	Cavity optomechanics. Reviews of Modern Physics, 2014, 86, 1391-1452.	16.4	4,064
747	Quantum gates via relativistic remote control. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 739, 74-82.	1.5	6

IF ARTICLE CITATIONS # Hybrid Mechanical Systems., 2014, , 327-351. 748 53 Cryogenic surface ion trap based on intrinsic silicon. New Journal of Physics, 2014, 16, 113068. 749 1.2 750 Controlling several atoms in a cavity. New Journal of Physics, 2014, 16, 065010. 1.2 18 Zeeman-splitting-assisted quantum-logic spectroscopy of trapped ions. Physical Review A, 2014, 90, . Carrier-free Raman manipulation of trapped neutral atoms. New Journal of Physics, 2014, 16, 113042. 752 1.2 8 Energy-level structure of ion cloud and crystal in a linear Paul trap. New Journal of Physics, 2014, 16, 083041. 1.2 754 Multi-frequency lasing of diode laser (795 nm) for pumping Rb frequency standard., 2014,,. 0 Fundamental phenomena of quantum mechanics explored with neutron interferometers. Progress of 1.8 38 Theoretical and Experimental Physics, 2014, 2014, . 756 Single-mode optical fiber for high-power, low-loss UV transmission. Optics Express, 2014, 22, 19783. 1.7 52 Quantum nondemolition measurement of small photon numbers using stored light. Physical Review A, 1.0 2014, 90, . Two-mode coupling in a single-ion oscillator via parametric resonance. Physical Review A, 2014, 89, . 758 1.0 11 Optically Driven Rabi Oscillations and Adiabatic Passage of Single Electron Spins in Diamond. Physical Review Letters, 2014, 112, 116403. Adiabatic approximation for three qubits ultrastrongly coupled to a harmonic oscillator. Physical 760 1.0 3 Review A, 2014, 89, . Phase Stabilization of a Frequency Comb using Multipulse Quantum Interferometry. Physical Review Letters, 2014, 112, 073603 Nonlinear spectroscopy of trapped ions. Physical Review A, 2014, 90, . 762 1.0 14 Phase-Resolved Electron Guiding in Optimized Chip-Based Microwave Potentials. Physical Review Applied, 2014, 2, . Fast Quantum Gate via Feshbach-Pauli Blocking in a Nanoplasmonic Trap. Physical Review Letters, 2014, 764 2.9 2 112, 250502. Efficient Quantum Algorithm for Computing < mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML' display="inline"><mml:mi>n</mml:mi></mml:math>-time Correlation Functions. Physical Review Letters. 2014. 113. 020505.

#	Article	IF	CITATIONS
766	Computational studies of multiple-particle nonlinear dynamics in a spatio-temporally periodic potential. Journal of Applied Physics, 2014, 115, 244908.	1.1	2
767	Experimental realization of fast ion separation in segmented Paul traps. Physical Review A, 2014, 90, .	1.0	43
768	Genuine-multipartite-entanglement trends in gapless-to-gapped transitions of quantum spin systems. Physical Review A, 2014, 90, .	1.0	39
769	Decoherence-Assisted Spectroscopy of a Single <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>Mg</mml:mi></mml:mrow><mml:mrow><mn Physical Review Letters, 2014, 112, 113003.</mn </mml:mrow></mml:msup></mml:mrow></mml:math 	nl:mo>+ </td <td>18 mml:mo></td>	18 mml:mo>
770	Quantum gates with phase stability over space and time. Physical Review A, 2014, 90, .	1.0	11
771	Quantum electrodynamical time-dependent density-functional theory for many-electron systems on a lattice. Physical Review B, 2014, 90, .	1.1	9
772	Insensitivity of the rate of ion motional heating to trap-electrode material over a large temperature range. Physical Review A, 2014, 89, .	1.0	54
773	Coherence trapping and information backflow in dephasing qubits. Physical Review A, 2014, 89, .	1.0	76
774	Ion traps fabricated in a CMOS foundry. Applied Physics Letters, 2014, 105, .	1.5	44
775	Lattice mapping for many-body open quantum systems and its application to atoms in photonic crystals. Physical Review A, 2014, 90, .	1.0	7
776	Jaynes-Cummings dynamics in mesoscopic ensembles of Rydberg-blockaded atoms. Physical Review A, 2014, 90, .	1.0	10
777	Quantum driving and work. Physical Review E, 2014, 89, 052128.	0.8	26
778	Experimental realization of a dynamic squeezing gate. Physical Review A, 2014, 90, .	1.0	38
779	Candidate for Laser Cooling of a Negative Ion: Observations of Bound-Bound Transitions in <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><m< td=""><td>l:mö>â^'<!--</td--><td>mml:mo></td></td></m<></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:math>	l:mö>â^' </td <td>mml:mo></td>	mml:mo>
780	Phonon amplification in two coupled cavities containing one mechanical resonator. Physical Review A, 2014, 90, .	1.0	28
781	Robustness of composite pulses to time-dependent control noise. Physical Review A, 2014, 90, .	1.0	71
782	Cauchy-Schwarz inequality and particle entanglement. Physical Review A, 2014, 90, .	1.0	17
783	Quantum state manipulation of single-Cesium-atom qubit in a micro-optical trap. Frontiers of Physics, 2014, 9, 634-639.	2.4	8

#	Article	IF	CITATIONS
784	Anisotropic Rabi model. Physical Review X, 2014, 4, .	2.8	83
785	Quantum channels and memory effects. Reviews of Modern Physics, 2014, 86, 1203-1259.	16.4	232
786	Measurement of the Kr xviii3d2D5/2lifetime at low energy in a unitary Penning trap. Physical Review A, 2014, 89, .	1.0	14
787	Thermally induced creation of quantum coherence. Physical Review A, 2014, 90, .	1.0	3
788	Microwave-Optical Double-Resonance Spectroscopy Experiment of ¹⁹⁹ Hg ⁺ Ground State Hyperfine Splitting in a Linear Ion Trap. Chinese Physics Letters, 2014, 31, 063201.	1.3	6
789	Zero-dynamics principle for perfect quantum memory in linear networks. New Journal of Physics, 2014, 16, 073032.	1.2	33
790	Coupling Distant Spins of Surface-State Electrons by Manipulating Their Collective Vibrations. Communications in Theoretical Physics, 2014, 61, 131-134.	1.1	0
791	Nonclassical light in two-photon Jaynes–Cummings model of a three-level atom with different dipole transitions. Indian Journal of Physics, 2014, 88, 25-30.	0.9	4
792	A complicated Duffing oscillator in the surface-electrode ion trap. Applied Physics B: Lasers and Optics, 2014, 114, 81-88.	1.1	3
793	Addendum to "Quantum theory of the stability region of an ion in a Paul trap― Physical Review A, 2014, 89, .	1.0	3
794	Local detection of quantum correlations with a single trapped ion. Nature Physics, 2014, 10, 105-109.	6.5	82
795	Status of the project TRAPSENSOR. Hyperfine Interactions, 2014, 227, 223-237.	0.2	6
796	Long-term drifts of stray electric fields in a Paul trap. Applied Physics B: Lasers and Optics, 2014, 114, 275-281.	1.1	25
797	Entangling quantum gate in trapped ions via Rydberg blockade. Applied Physics B: Lasers and Optics, 2014, 114, 37-44.	1.1	30
798	A thin wire ion trap to study ion–atom collisions built within a Fabry–Perot cavity. Applied Physics B: Lasers and Optics, 2014, 114, 267-273.	1.1	18
799	Mode shaping in mixed ion crystals of 40Ca2+ and 40Ca+. Applied Physics B: Lasers and Optics, 2014, 114, 11-16.	1.1	9
800	Sub-micron positioning of trapped ions with respect to the absolute center of a standing-wave cavity field. Applied Physics B: Lasers and Optics, 2014, 114, 295-301.	1.1	5
801	Perturbative approach to the dynamics of a trapped ion interacting with a light field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 075501.	0.6	6

ARTICLE IF CITATIONS # Relativistic and Non-Relativistic Quantum Brownian Motion in an Anisotropic Dissipative Medium. 802 0.5 5 International Journal of Theoretical Physics, 2014, 53, 2593-2615. Quantum information transfer using photons. Nature Photonics, 2014, 8, 356-363. 15.6 322 Aharonov–Bohm effect in the tunnelling of a quantum rotor in a linear Paul trap. Nature 804 5.8 48 Communications, 2014, 5, 3868. Non-dispersive, accelerated matter-waves. European Physical Journal D, 2014, 68, 1. The dynamics of entanglement in two-atom Tavisâ€"Cummings model with non-degenerate two-photon 806 transitions for four-qubits initial atom-field entangled states. Optics Communications, 2014, 313, 1.0 17 170-174. Nanoscale Heat Engine Beyond the Carnot Limit. Physical Review Letters, 2014, 112, 030602. 481 808 Precision spectroscopy by photon-recoil signal amplification. Nature Communications, 2014, 5, 3096. 5.8 47 Entanglement analysis of a two-atom nonlinear Jaynes $\hat{a} \in Cummings$ model with nondegenerate 809 0.6 two-photon transition, Kerr nonlinearity, and two-mode Stark shift. Laser Physics, 2014, 24, 125203. Strain Coupling of a Nitrogen-Vacancy Center Spin to a Diamond Mechanical Oscillator. Physical 810 2.9 251 Review Letters, 2014, 113, 020503. Nonlinear spectroscopy of controllable many-body quantum systems. New Journal of Physics, 2014, 16, 1.2 092001. 812 Cold atom–ion experiments in hybrid traps. Contemporary Physics, 2014, 55, 33-45. 0.8 114 Cavity-assisted cooling of a trapped atom using cavity-induced transparency. Physical Review A, 2014, 1.0 Excitations of optomechanically driven Boseâ€"Einstein condensates in a cavity: Photodetection 814 0.7 0 measurements. Chinese Physics B, 2014, 23, 100305. Decoherence-Free Linear Quantum Subsystems. IEEE Transactions on Automatic Control, 2014, 59, 3.6 1845-1857 816 Quantum dynamics of the driven and dissipative Rabi model. Physical Review A, 2014, 90, . 1.0 37 Designing frequency-dependent relaxation rates and Lamb shifts for a giant artificial atom. Physical Review A, 2014, 90, . Coherently Opening a High-QCavity. Physical Review Letters, 2014, 112, 133605. 818 2.9 14 Quantum reservoirs with ion chains. Physical Review A, 2014, 90, .

ARTICLE IF CITATIONS # Optical driving of macroscopic mechanical motion by a single two-level system. Physical Review A, 820 1.0 11 2014,90,. Energy transport in trapped ion chains. New Journal of Physics, 2014, 16, 063062. 1.2 822 Quantum trajectories and open many-body quantum systems. Advances in Physics, 2014, 63, 77-149. 35.9 477 Dynamics and quantum entanglement of two-level atoms in de Sitter spacetime. Annals of Physics, 24 2014, 350, 1-13. Microwave Control of Trapped-Ion Motion Assisted by a Running Optical Lattice. Physical Review 824 2.9 18 Letters, 2014, 113, 073002. Witnessing entanglement in hybrid systems. Physical Review A, 2014, 90, . 1.0 Entanglement rebirth of multi-trapped ions with trap phonon modes: entanglement sudden death with 826 1.0 2 recovery. Quantum Information Processing, 2014, 13, 1937-1950. Efficient quantum simulation of fermionic and bosonic models in trapped ions. EPJ Quantum 827 2.9 Technology, 2014, 1, . 828 Cavity quantum electrodynamics with rapidly vibrating atom. Laser Physics Letters, 2014, 11, 025204. 0.6 1 Optically controlled initialization and read-out of an electron spin bound to a fluorine donor in 829 1.1 ZnSe. Current Applied Physics, 2014, 14, 1234-1239. Quantum simulation of †zitterbewegung' in a single trapped ion under conditions of parity-keeping and 830 2.0 4 parity-breaking. Science China: Physics, Mechanics and Astronomy, 2014, 57, 1250-1255. Demonstration of motion transduction in a single-ion nonlinear mechanical oscillator. Physical 1.0 Review A, 2014, 89, . Superposition, entanglement, and raising SchrĶdinger's cat. International Journal of Modern Physics 832 0.5 3 A, 2014, 29, 1430027. Preparing single ultra-cold antihydrogen atoms for free-fall in GBAR. International Journal of 834 Modern Physics Conference Series, 2014, 30, 1460269. Fast expansions and compressions of trapped-ion chains. Physical Review A, 2015, 91, . 835 1.0 15 Freezing of quantum correlations under local decoherence. Physical Review A, 2015, 91, . Polarization of electric-field noise near metallic surfaces. Physical Review A, 2015, 92, . 837 1.0 10 Rabi lattice models with discrete gauge symmetry: Phase diagram and implementation in trapped-ion quantum simulators. Physical Review A, 2015, 92, .

#	ARTICLE Low-noise optical lattices for ultracold <mml:math< th=""><th>IF</th><th>CITATIONS</th></mml:math<>	IF	CITATIONS
839	xmins:mmi= http://www.w3.org/1998/Math/Math/Math/Math/Math/Math/Math/Math	1.0	23
840	Quantum controlled-Zgate for weakly interacting qubits. Physical Review A, 2015, 92, .	1.0	4
841	Time and spatial parity operations with trapped ions. Physical Review A, 2015, 92, .	1.0	5
842	Tuning energy transport using interacting vibrational modes. Physical Review A, 2015, 92, .	1.0	11
843	Quantum metrology with mixed states: When recovering lost information is better than never losing it. Physical Review A, 2015, 92, .	1.0	28
844	Spectral collapse via two-phonon interactions in trapped ions. Physical Review A, 2015, 92, .	1.0	92
845	Quantum statistics control with a plasmonic nanocavity: Multimode-enhanced interferences. Physical Review A, 2015, 92, .	1.0	11
846	Universal control of an oscillator with dispersive coupling to a qubit. Physical Review A, 2015, 92, .	1.0	99
847	Fast bias inversion of a double well without residual particle excitation. Physical Review A, 2015, 92, .	1.0	7
848	Phonon-to-spin mapping in a system of a trapped ion via optimal control. Physical Review A, 2015, 92, .	1.0	5
849	Transfer of non-Gaussian quantum states of mechanical oscillator to light. Physical Review A, 2015, 92, .	1.0	13
850	Surface-plasmon-polariton–assisted dissipative backaction cooling and amplification. Physical Review A, 2015, 92, .	1.0	1
851	Modulating carrier and sideband coupling strengths in a standing-wave gate beam. Physical Review A, 2015, 92, .	1.0	9
852	Reducing computational complexity of quantum correlations. Physical Review A, 2015, 92, .	1.0	11
853	V-shaped superconducting artificial atom based on two inductively coupled transmons. Physical Review B, 2015, 92, . Frequency Ratio of commismath xmlnssmml="http://www.w3.org/1998/Math/MathMI."	1.1	18
854	display="inline"> <mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Hg</mml:mi></mml:mrow><mml:mpre /><mml:none /><mml:mrow><mml:mn>199</mml:mn></mml:mrow></mml:none </mml:mpre </mml:mmultiscripts></mml:mrow> and <mn xmlns:mml="http://www.w3.org/1998/Math/MathML"</mn 	escripts hl:math	74
855	display="inline"> <mml:mrow> <mml:mmultiscripts> <mml:mrow> <mml:mi>Sr</mml:mi></mml:mrow> <mml:mpre Diffraction-Unlimited Position Measurement of Ultracold Atoms in an Optical Lattice. Physical Review Letters, 2015, 115, 095301.</mml:mpre </mml:mmultiscripts></mml:mrow>	scripts 2.9	38
856	Spectroscopy of Interacting Quasiparticles in Trapped Ions. Physical Review Letters, 2015, 115, 100501.	2.9	60

#	Article	IF	CITATIONS
857	Measurement of Dipole Matrix Elements with a Single Trapped Ion. Physical Review Letters, 2015, 115, 143003.	2.9	35
858	Interplay of Electron and Nuclear Spin Noise in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>n</mml:mi></mml:mrow>-Type GaAs. Physical Review Letters. 2015. 115. 176601.</mml:math 	2.9	33
859	Sensing Atomic Motion from the Zero Point to Room Temperature with Ultrafast Atom Interferometry. Physical Review Letters, 2015, 115, 213001.	2.9	23
860	Quantum signatures of chimera states. Physical Review E, 2015, 92, 062924.	0.8	85
861	lon-trap measurements of electric-field noise near surfaces. Reviews of Modern Physics, 2015, 87, 1419-1482.	16.4	265
862	Precise determination of micromotion for trapped-ion optical clocks. Journal of Applied Physics, 2015, 118, .	1.1	85
863	Quantum Rabi Model with Trapped Ions. Scientific Reports, 2015, 5, 15472.	1.6	124
864	Experimental simulation of decoherence in photonics qudits. Scientific Reports, 2015, 5, 16049.	1.6	28
865	Cooling of levitated graphene nanoplatelets in high vacuum. Applied Physics Letters, 2015, 106, .	1.5	33
866	Analytical Solution for the Anisotropic Rabi Model: Effects of Counter-Rotating Terms. Scientific Reports, 2015, 5, 8756.	1.6	17
867	Extending the applicability of an open-ring trap to perform experiments with a single laser-cooled ion. Review of Scientific Instruments, 2015, 86, 103104.	0.6	8
868	Biomimetic Cloning of Quantum Observables. Scientific Reports, 2014, 4, 4910.	1.6	22
869	Quantum Computation under Micromotion in a Planar Ion Crystal. Scientific Reports, 2015, 5, 8555.	1.6	27
870	Two-Ion System in Paul Trap as Element of Quantum Logic. Physics Procedia, 2015, 72, 241-244.	1.2	0
871	Rotation of the Orientation of the Wave Function Distribution of a Charged Particle and its Utilization. Journal of Physical Chemistry B, 2015, 119, 11079-11088.	1.2	14
872	Controlling instability and phase hops of a kicked two-level ion in Lamb-Dicke regime. European Physical Journal D, 2015, 69, 1.	0.6	4
873	A cavity-mediated collective quantum effect in sonoluminescing bubbles. Journal of Physics: Conference Series, 2015, 656, 012177.	0.3	1
874	Sympathetic cooling and detection of a hot trapped ion by a cold one. New Journal of Physics, 2015, 17, 103001.	1.2	29

	CITATION RE	PORT	
#	Article	IF	CITATIONS
875	Experiments with Highly-Ionized Atoms in Unitary Penning Traps. Atoms, 2015, 3, 367-391.	0.7	5
876	Quantum teleportation with identical particles. Physical Review A, 2015, 91, .	1.0	37
877	Quantum Simulation of Dissipative Processes without Reservoir Engineering. Scientific Reports, 2015, 5, 9981.	1.6	32
878	Tuning friction atom-by-atom in an ion-crystal simulator. Science, 2015, 348, 1115-1118.	6.0	101
879	An alternative electric-field spectrum for laser-driven atomic systems. European Physical Journal D, 2015, 69, 1.	0.6	1
880	Squeezed ions in two places at once. Nature, 2015, 521, 295-296.	13.7	1
881	Asymmetric rejuvenation. Nature, 2015, 521, 296-298.	13.7	8
882	Spin–motion entanglement and state diagnosis with squeezed oscillator wavepackets. Nature, 2015, 521, 336-339.	13.7	61
883	Cavity-based quantum networks with single atoms and optical photons. Reviews of Modern Physics, 2015, 87, 1379-1418.	16.4	632
884	Surface traps for freely rotating ion ring crystals. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 205002.	0.6	9
885	Ion Coulomb crystals. Physica B: Condensed Matter, 2015, 460, 105-113.	1.3	39
886	On-Demand Electrostatic Coupling of Individual Precharacterized Nano- and Microparticles in a Segmented Paul Trap. Nano Letters, 2015, 15, 1993-2000.	4.5	12
887	Transition of entanglement dynamics in an oscillator system with weak time-dependent coupling. Physical Review A, 2015, 91, .	1.0	6
888	Coupled-qubit Tavis-Cummings scheme for prolonging quantum coherence. Physical Review A, 2015, 91,	1.0	1
889	Thermometry via Light Shifts in Optical Lattices. Physical Review Letters, 2015, 114, 023001.	2.9	33
890	Physical characterization of quantum devices from nonlocal correlations. Physical Review A, 2015, 91,	1.0	62
891	Towards optomechanical quantum state reconstruction of mechanical motion. Annalen Der Physik, 2015, 527, 15-26.	0.9	46
892	Spectra of 4 ² <i>S</i> _{1/2} →3 ² <i>D</i> _{5/2} Transitions of a Single Trapped ⁴⁰ Ca+ Ion. Chinese Physics Letters, 2015, 32, 013201.	1.3	1

#	Article	IF	CITATIONS
893	Mixed Rabi Jaynes–Cummings model of a three-level atom interacting with two quantized fields. Optics Communications, 2015, 346, 110-114.	1.0	8
894	Conditional Ramsey Spectroscopy with Synchronized Atoms. Physical Review Letters, 2015, 114, 103601.	2.9	35
895	Charge-exchange collisions between ultracold fermionic lithium atoms and calcium ions. Physical Review A, 2015, 91, .	1.0	39
896	Relativistic Quantum Metrology in Open System Dynamics. Scientific Reports, 2015, 5, 7946.	1.6	36
897	Computational Methods for Chemistry and Physics, and Schrödinger in 3+11. Advances in Quantum Chemistry, 2015, , 265-298.	0.4	5
898	Generation of motional entangled coherent state in an optomechanical system in the single photon strong coupling regime. Journal of Modern Optics, 2015, 62, 1685-1691.	0.6	2
899	Cold interactions between an <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>Yb</mml:mi>and a Li atom: Prospects for sympathetic cooling, radiative association, and Feshbach resonances. Physical Review A, 2015, 91, .</mml:mrow></mml:msup></mml:math 	nrow> < mr 1.0	nl:mo>+
900	Quantum mechanical uncertainties and exact transition amplitudes for time dependent quadratic Hamiltonian. Physica Scripta, 2015, 90, 074060.	1.2	1
901	Optical atomic clocks. Reviews of Modern Physics, 2015, 87, 637-701.	16.4	1,421
902	An ion trap built with photonic crystal fibre technology. Review of Scientific Instruments, 2015, 86, 033107.	0.6	7
903	Conditional superpositions of Gaussian operations on different modes of light. Physical Review A, 2015, 91, .	1.0	9
904	Spin correlations as a probe of quantum synchronization in trapped-ion phonon lasers. Physical Review A, 2015, 91, .	1.0	95
905	High-precision spectroscopy of ultracold molecules in an optical lattice. New Journal of Physics, 2015, 17, 055004.	1.2	31
906	Quantum limit for driven linear non-Markovian open-quantum-systems. New Journal of Physics, 2015, 17, 033038.	1.2	28
907	Integrability versus exact solvability in the quantum Rabi and Dicke models. Physical Review A, 2015, 91,	1.0	37
908	Description of ion motion in a Paul trap immersed in a cold atomic gas. Physical Review A, 2015, 91, .	1.0	37
909	Single-step arbitrary control of mechanical quantum states in ultrastrong optomechanics. Physical Review A, 2015, 91, .	1.0	15
910	Interaction-free evolution in the presence of time-dependent Hamiltonians. Physical Review A, 2015, 91, .	1.0	10

ARTICLE IF CITATIONS # Quantum simulations of a freely rotating ring of ultracold and identical bosonic ions. Physical 911 1.0 5 Review A, 2015, 91, . Multi-gubit gate with trapped ions for microwave and laser-based implementation. New Journal of 1.2 Physics, 2015, 17, 043008. 913 Optically pumped semiconductor lasers for atomic and molecular physics. Proceedings of SPIE, 2015, , . 0.8 8 Particle dynamics in damped nonlinear quadrupole ion traps. American Journal of Physics, 2015, 83, 914 313-319. Parity Symmetry and Parity Breaking in the Quantum Rabi Model with Addition of Ising Interaction. 915 1.1 2 Communications in Theoretical Physics, 2015, 63, 510-514. Cavity quantum electrodynamics using a near-resonance two-level system: Emergence of the Glauber 1.5 state. Applied Physics Letters, 2015, 106, . Fundamental laser modes in paraxial optics: from computer algebra and simulations to experimental 917 1.1 18 observation. Applied Physics B: Lasers and Optics, 2015, 121, 315-336. Propagators of isochronous an-harmonic oscillators and Mehler formula for the exceptional 1.0 Hermite polynomials. Annals of Physics, 2015, 363, 122-135. Lie algebraic approach to the time-dependent quantum general harmonic oscillator and the 919 bi-dimensional charged particle in time-dependent electromagnetic fields. Annals of Physics, 2015, 362, 1.0 18 83-117. Circuit-QED-based scalable architectures for quantum information processing with superconducting 1.1 qubits. Physical Review B, 2015, 91, . Probing polariton dynamics in trapped ions with phase-coherent two-dimensional spectroscopy. 921 1.2 5 Journal of Chemical Physics, 2015, 142, 212439. Weak measurements of trajectories in quantum systems: classical, Bohmian and sum over paths. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 305301. Robust quantum gates between trapped ions using shaped pulses. Physics Letters, Section A: General, 923 0.9 1 Atomic and Solid State Physics, 2015, 379, 3045-3049. Hexagonal plaquette spin–spin interactions and quantum magnetism in a two-dimensional ion crystal. New Journal of Physics, 2015, 17, 065018. 924 1.2 Cat-states in the framework of Wignerâ€"Heisenberg algebra. Annals of Physics, 2015, 362, 659-670. 925 1.0 25 Trapped ionic simulation of neutrino electromagnetic properties in neutrino oscillation. Nuclear Physics B, 2015, 900, 560-575. Strong coupling between surface plasmon polaritons and emitters: a review. Reports on Progress in 927 8.1 1,109 Physics, 2015, 78, 013901. From transistor to trapped-ion computers for quantum chemistry. Scientific Reports, 2014, 4, 3589.

CITATION REPORT ARTICLE IF CITATIONS Precise study of asymptotic physics with subradiant ultracold molecules. Nature Physics, 2015, 11, 6.5 89 32-36. Local decoherence-resistant quantum states of large systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 261-271. Experimental test of the quantum Jarzynski equality with a trapped-ion system. Nature Physics, 2015, 11, 6.5 286 193-199. Bright squeezed vacuum: Entanglement of macroscopic light beams. Optics Communications, 2015, 337, 27-43. Investigation on the quantum-to-classical transition by optical parametric amplification: Generation 1.0 2 and detection of multiphoton quantum superposition. Optics Communications, 2015, 337, 44-52. Demystifying the riddle of quantum physics. Contemporary Physics, 2015, 56, 220-224. 0.8 More nonlocality with less entanglement in a tripartite atomâ€optomechanical system. Annalen Der 0.9 29 Physik, 2015, 527, 147-155. Arbitrary multi-qubit generation. New Journal of Physics, 2016, 18, 103020. 1.2 Optomechanical Quantum Control of a Nitrogen Vacancy Center in Diamond., 2016,,. 0 Novel Ion Trap Design for Strong Ion-Cavity Coupling. Atoms, 2016, 4, 15. Comparing the Models of Steepest Entropy Ascent Quantum Thermodynamics, Master Equation and the 1.1 7 Difference Equation for a Simple Quantum System Interacting with Reservoirs. Entropy, 2016, 18, 176. Guidelines for Designing Surface Ion Traps Using the Boundary Element Method. Sensors, 2016, 16, 616. 2.1 VECSEL systems for the generation and manipulation of trapped magnesium ions. Optica, 2016, 3, 1294. 4.8 22 Analytical simulations of double-well, triple-well and multi-well dynamics via rationally extended Harmonic oscillator. Journal of Physics: Conference Series, 2016, 670, 012042. 0.3 Resolved-sideband Raman cooling of an optical phonon in semiconductor materials. Nature 15.6 42 Photonics, 2016, 10, 600-605. Quantum simulation of the dynamical Casimir effect with trapped ions. New Journal of Physics, 2016, 1.2 18,043029.

946	Time evolution of two-dimensional quadratic Hamiltonians: A Lie algebraic approach. Journal of Mathematical Physics, 2016, 57, 042104.	0.5	8
0.47	Multiple-output microwave single-photon source using superconducting circuits with longitudinal	1.0	20

53

and transverse couplings. Physical Review A, 2016, 94, .

#

929

931

933

934

935

938

940

942

943

944

#	Article	IF	CITATIONS
948	\${mathscr{P}}{mathscr{T}}\$-symmetry breaking in the steady state of microscopic gain–loss systems. New Journal of Physics, 2016, 18, 095003.	1.2	63
949	Arrays of individually controlled ions suitable for two-dimensional quantum simulations. Nature Communications, 2016, 7, ncomms11839.	5.8	52
950	Multipole electrodynamic ion trap geometries for microparticle confinement under standard ambient temperature and pressure conditions. Journal of Applied Physics, 2016, 119, .	1.1	17
951	Exploring structural phase transitions of ion crystals. Scientific Reports, 2016, 6, 21547.	1.6	31
952	Artificial Life in Quantum Technologies. Scientific Reports, 2016, 6, 20956.	1.6	22
953	Efficient cooling of quantized vibrations using a four-level configuration. Physical Review A, 2016, 94,	1.0	7
954	Constructive interference between disordered couplings enhances multiparty entanglement in quantum Heisenberg spin glass models. New Journal of Physics, 2016, 18, 083044.	1.2	8
955	Coupling a Surface Acoustic Wave to an Electron Spin in Diamond via a Dark State. Physical Review X, 2016, 6, .	2.8	88
956	Dynamics of a Ground-State Cooled Ion Colliding with Ultracold Atoms. Physical Review Letters, 2016, 117, 243401.	2.9	89
957	Trapped-ion Lissajous trajectories by engineering Rashba- and Dresselhaus-type spin-orbit interactions in a Paul trap. Europhysics Letters, 2016, 115, 53001.	0.7	7
958	Active stabilization of ion trap radiofrequency potentials. Review of Scientific Instruments, 2016, 87, 053110.	0.6	52
959	Experimental system design for the integration of trapped-ion and superconducting qubit systems. Quantum Information Processing, 2016, 15, 5385-5414.	1.0	12
960	Complex quantum networks as structured environments: engineering and probing. Scientific Reports, 2016, 6, 26861.	1.6	39
961	Spectroscopy of cold rubidium Rydberg atoms for applications in quantum information. Physics-Uspekhi, 2016, 59, 196-208.	0.8	58
962	Quantum Optomechanics. Progress in Optics, 2016, 61, 113-236.	0.4	17
963	Sympathetic cooling in a large ion crystal. Quantum Information Processing, 2016, 15, 5299-5313.	1.0	13
964	Dynamics of entanglement and quantum discord in the Tavis–Cummings model. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 125502.	0.6	7
965	Designs for a quantum electron microscope. Ultramicroscopy, 2016, 164, 31-45.	0.8	122

#	Article	IF	CITATIONS
966	A single-atom heat engine. Science, 2016, 352, 325-329.	6.0	533
967	Pre-transmetalation intermediates in the Suzuki-Miyaura reaction revealed: The missing link. Science, 2016, 352, 329-332.	6.0	245
968	Quantum Acoustics with Surface Acoustic Waves. Quantum Science and Technology, 2016, , 217-244.	1.5	19
969	Quantum speedup of uncoupled multiqubit open system via dynamical decoupling pulses. Quantum Information Processing, 2016, 15, 2325-2342.	1.0	13
970	Deterministic nonclassicality from thermal states. Optics Express, 2016, 24, 7858.	1.7	5
971	Geometry of system-bath coupling and gauge fields in bosonic ladders: Manipulating currents and driving phase transitions. Physical Review A, 2016, 94, .	1.0	18
972	Experimental creation of superposition of unknown photonic quantum states. Physical Review A, 2016, 94, .	1.0	13
973	Many-body quantum electrodynamics networks: Non-equilibrium condensed matter physics with light. Comptes Rendus Physique, 2016, 17, 808-835.	0.3	82
974	High-resolution spectroscopic frequency measurements. , 2016, , 343-432.		0
975	Confinement-induced resonances in ultracold atom-ion systems. Physical Review A, 2016, 94, .	1.0	21
976	Spin-Orbit Interactions and Quantum Spin Dynamics in Cold Ion-Atom Collisions. Physical Review Letters, 2016, 117, 143201.	2.9	17
977	Generation of spin-dependent coherent states in a quantum wire. Physical Review B, 2016, 94, .	1.1	8
978	Static and dynamical quantum correlations in phases of an alternating-fieldXYmodel. Physical Review A, 2016, 94, .	1.0	16
979	Physical design of quantum circuits in ion trap technology – A survey. Microelectronics Journal, 2016, 55, 116-133.	1.1	7
980	Keldysh field theory for driven open quantum systems. Reports on Progress in Physics, 2016, 79, 096001.	8.1	354
981	Nonlinear Jaynes–Cummings model for two interacting two-level atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 165503.	0.6	11
982	Deterministic nonclassicality for quantum-mechanical oscillators in thermal states. Physical Review A, 2016, 94, .	1.0	8
983	Generalized geometric measure of entanglement for multiparty mixed states. Physical Review A, 2016, 94, .	1.0	18

#	Article	IF	CITATIONS
984	Motional-mode analysis of trapped ions. Physical Review A, 2016, 94, .	1.0	11
985	Addressing single trapped ions for Rydberg quantum logic. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 154004.	0.6	14
986	Multiparticle losses in a linear quadrupole Paul trap. Quantum Electronics, 2016, 46, 935-940.	0.3	9
987	Hiddensl(2)-algebraic structure in Rabi model and its 2-photon and two-mode generalizations. Annals of Physics, 2016, 375, 460-470.	1.0	9
988	Efficient single-photon absorption by a trapped moving atom. Physical Review A, 2016, 94, .	1.0	5
989	Noise-Resilient Quantum Computing with a Nitrogen-Vacancy Center and Nuclear Spins. Physical Review Letters, 2016, 117, 130502.	2.9	36
990	Trampolines Sense a Disturbance in the Force. Physics Magazine, 2016, 9, .	0.1	2
991	Controlled long-range interactions between Rydberg atoms and ions. Physical Review A, 2016, 94, .	1.0	40
992	Occurrence of discontinuities in the performance of finite-time quantum Otto cycles. Physical Review E, 2016, 94, 012137.	0.8	32
993	Proposal for laser cooling of rare-earth ions. Physical Review A, 2016, 93, .	1.0	10
994	Dynamics of an ion coupled to a parametric superconducting circuit. Physical Review A, 2016, 93, .	1.0	2
995	Hidden frustrated interactions and quantum annealing in trapped-ion spin-phonon chains. Physical Review A, 2016, 93, .	1.0	24
996	Measuring and using non-Markovianity. Physical Review A, 2016, 93, .	1.0	33
997	Master equation for collective spontaneous emission with quantized atomic motion. Physical Review A, 2016, 93, .	1.0	16
998	Degenerate parametric oscillation in quantum membrane optomechanics. Physical Review A, 2016, 93, .	1.0	21
999	Nonlinearity as a resource for nonclassicality in anharmonic systems. Physical Review A, 2016, 93, .	1.0	29
1000	Dissipative structures in optomechanical cavities. Physical Review A, 2016, 93, .	1.0	5
1001	Control and enhancement of interferometric coupling between two photonic qubits. Physical Review A, 2016, 93, .	1.0	4

#	Article	IF	CITATIONS
1002	Survival of time-evolved quantum correlations depending on whether quenching is across a critical point in anXYspin chain. Physical Review A, 2016, 93, .	1.0	7
1003	Controlling spin-dependent localization and directed transport in a bipartite lattice. Physical Review A, 2016, 93, .	1.0	11
1004	Quantum state engineering in hybrid open quantum systems. Physical Review A, 2016, 93, .	1.0	18
1005	Superiority of photon subtraction to addition for entanglement in a multimode squeezed vacuum. Physical Review A, 2016, 93, .	1.0	13
1006	Raman sideband cooling of a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Ba</mml:mi><mml:none /><mml:mo>+</mml:mo><mml:mprescripts></mml:mprescripts><mml:none /><mml:mn>138</mml:mn></mml:none </mml:none </mml:mmultiscripts>ion using a Zeeman interval. Physical Review A 2016 93</mml:math 	1.0	8
1007	Effective long-distance interaction from short-distance interaction in a periodically driven one-dimensional classical system. Physical Review A, 2016, 93, .	1.0	24
1008	Quantum transitions and quantum entanglement from Dirac-like dynamics simulated by trapped ions. Physical Review A, 2016, 93, .	1.0	14
1009	Nonequilibrium properties of trapped ions under sudden application of a laser. Physical Review A, 2016, 94, .	1.0	2
1010	Attosecond and femtosecond forces exerted on gold nanoparticles induced by swift electrons. Physical Review B, 2016, 93, .	1.1	14
1011	Quartz-superconductor quantum electromechanical system. Physical Review B, 2016, 93, .	1.1	9
1012	Photon-statistics excitation spectroscopy of a single two-level system. Physical Review B, 2016, 93, .	1.1	7
1013	Optomechanical test of the SchrĶdinger-Newton equation. Physical Review D, 2016, 93, .	1.6	41
1014	Quantum correlations in quenched disordered spin models: Enhanced order from disorder by thermal fluctuations. Physical Review E, 2016, 93, 032115.	0.8	7
1015	Doppler Cooling Trapped Ions with a UV Frequency Comb. Physical Review Letters, 2016, 116, 043002.	2.9	21
1016	Observation of Quantum Interference between Separated Mechanical Oscillator Wave Packets. Physical Review Letters, 2016, 116, 140402.	2.9	67
1017	Optomechanical Quantum Control of a Nitrogen-Vacancy Center in Diamond. Physical Review Letters, 2016, 116, 143602.	2.9	199
1018	Optimized Multi-Ion Cavity Coupling. Physical Review Letters, 2016, 116, 223001.	2.9	27
1019	Conditional nonlinear operations by sequential Jaynes-Cummings interactions. Physical Review A, 2016, 94, .	1.0	3

#	Article	IF	CITATIONS
1020	High-resolution adaptive imaging of a single atom. Nature Photonics, 2016, 10, 606-610.	15.6	24
1021	Quantum discord length is enhanced while entanglement length is not by introducing disorder in a spin chain. Physical Review E, 2016, 93, 012131.	0.8	21
1022	Phase-Stable Free-Space Optical Lattices for Trapped Ions. Physical Review Letters, 2016, 116, 033002.	2.9	20
1023	Mechanically Mediated Microwave Frequency Conversion in the Quantum Regime. Physical Review Letters, 2016, 116, 043601.	2.9	76
1024	Buffer-Gas Cooling of a Single Ion in a Multipole Radio Frequency Trap Beyond the Critical Mass Ratio. Physical Review Letters, 2016, 116, 233003.	2.9	50
1025	Co-designing a scalable quantum computer with trapped atomic ions. Npj Quantum Information, 2016, 2, .	2.8	151
1026	Noise-induced transport in the motion of trapped ions. Physical Review A, 2016, 94, .	1.0	7
1027	Diverging scaling with converging multisite entanglement in odd and even quantum Heisenberg ladders. New Journal of Physics, 2016, 18, 023025.	1.2	9
1028	Arbitrary Dicke-State Control of Symmetric Rydberg Ensembles. Physical Review Letters, 2016, 117, 213601.	2.9	17
1029	Verifying Heisenberg's error-disturbance relation using a single trapped ion. Science Advances, 2016, 2, e1600578.	4.7	29
1030	An optimized geometry for a micro Penning-trap mass spectrometer based on interconnected ions. International Journal of Mass Spectrometry, 2016, 410, 22-30.	0.7	10
1031	Shortcuts to adiabaticity by counterdiabatic driving for trapped-ion displacement in phase space. Nature Communications, 2016, 7, 12999.	5.8	142
1032	Time-Resolved Observation of Thermalization in an Isolated Quantum System. Physical Review Letters, 2016, 117, 170401.	2.9	81
1033	Heisenberg uncertainty principle and light squeezing in quantum nanoantennas and electric circuits. Journal of Nanophotonics, 2016, 10, 046005.	0.4	7
1034	A simple and general strategy for generating frequency-anticorrelated photon pairs. Scientific Reports, 2016, 6, 24509.	1.6	3
1035	Average diagonal entropy in nonequilibrium isolated quantum systems. Physical Review E, 2016, 94, 012122.	0.8	7
1036	Generation of large coherent states by bang–bang control of a trapped-ion oscillator. Nature Communications, 2016, 7, 11243.	5.8	40
1037	A robust scheme for the implementation of the quantum Rabi model in trapped ions. New Journal of Physics, 2016, 18, 113039.	1.2	31

#	ARTICLE	IF	CITATIONS
1038	detection. Review of Scientific Instruments, 2016, 87, 053119.	0.6	7
1039	0.26-Hz-linewidth ultrastable lasers at 1557 nm. Scientific Reports, 2016, 6, 24969.	1.6	30
1040	Analysis of frequency noise properties of 729nm extended cavity diode laser with unbalanced Mach-Zehnder interferometer. , 2016, , .		0
1041	Operator-based derivation of phonon modes and characterization of correlations for trapped ions at zero and finite temperature. Physical Review B, 2016, 94, .	1.1	2
1042	Dark-resonance Doppler cooling and high fluorescence in trapped Ca-43 ions at intermediate magnetic field. New Journal of Physics, 2016, 18, 023043.	1.2	7
1043	Single-frequency 571nm VECSEL for photo-ionization of magnesium. , 2016, , .		1
1044	Stability Diagrams for Paul Ion Traps Driven by Two-Frequencies. Journal of Physical Chemistry A, 2016, 120, 4915-4922.	1.1	8
1045	Performances and robustness of quantum teleportation with identical particles. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20150621.	1.0	16
1046	Dark Plasmon-Solitons in Plasmonic Photonic Crystal Fiber Induced by Thermo-Modulational Nonlinearity of Metal. Plasmonics, 2016, 11, 895-901.	1.8	1
1047	Blackbody-radiation-induced shifts and the broadening of Rydberg states in the ions of group IIa elements. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 035003.	0.6	7
1048	Chimera States in Quantum Mechanics. Understanding Complex Systems, 2016, , 315-336.	0.3	3
1049	Quantum Simulation with Trapped Ions—Experimental Realization of the Jaynes-Cummings-Hubbard Model—. Lecture Notes in Physics, 2016, , 325-340.	0.3	0
1050	Optimization of phonon dynamics protocols in ion traps. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 055502.	0.6	2
1051	Optomechanical Entanglement Between an Ion and an Optical Cavity Field. International Journal of Theoretical Physics, 2016, 55, 1944-1952.	0.5	5
1052	Dipole–dipole interaction between trapped two-level ions interacting with a quantized field in the Lamb–Dicke regime. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 382.	0.9	6
1053	Reply to the comment on "Quantum trajectory tests of radical-pair quantum dynamics in CIDNP measurements of photosynthetic reaction centers―by G. Jeschke. Chemical Physics Letters, 2016, 648, 204-207.	1.2	3
1054	Two mode mechanical non-Gaussian squeezed number state in a two-membrane optomechanical system. Optics Communications, 2016, 370, 55-61.	1.0	3
1055	Quantum simulations of lattice gauge theories using ultracold atoms in optical lattices. Reports on Progress in Physics, 2016, 79, 014401.	8.1	301

#	Article	IF	CITATIONS
1056	Physical properties of a trapped two-level ion decaying by thermal and squeezed vacuum reservoirs. Journal of Modern Optics, 2016, 63, 111-125.	0.6	4
1057	Wave packet dynamics of an atomic ion in a Paul trap. International Journal of Modern Physics C, 2016, 27, 1650014.	0.8	5
1058	Exploration quantum steering, nonlocality and entanglement of two-qubit X-state in structured reservoirs. Scientific Reports, 2017, 7, 39651.	1.6	49
1059	Dicke phase transition and collapse of superradiant phase in optomechanical cavity with arbitrary number of atoms. Annals of Physics, 2017, 378, 448-458.	1.0	5
1060	Ultrastrong coupling dynamics with a transmon qubit. New Journal of Physics, 2017, 19, 023022.	1.2	29
1061	Entanglement dynamics of two nitrogen vacancy centers coupled by a nanomechanical resonator. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 055007.	0.6	3
1062	Schrödinger cat and Werner state disentanglement simulated by trapped ion systems. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 075501.	0.6	5
1063	Robust state preparation in quantum simulations of Dirac dynamics. Physical Review A, 2017, 95, .	1.0	23
1064	Motion-induced enhancement of Rabi coupling between atomic ensembles in cavity optomechanics. Physical Review A, 2017, 95, .	1.0	10
1065	Experimental demonstration of real-time adaptive one-qubit quantum-state tomography. Physical Review A, 2017, 95, .	1.0	6
1066	Heisenberg-limited Sagnac interferometer with multiparticle states. Physical Review A, 2017, 95, .	1.0	23
1067	lonic vibration induced transparency and Autler–Townes splitting. Laser Physics Letters, 2017, 14, 045203.	0.6	3
1068	The quantum Rabi model: solution and dynamics. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 113001.	0.7	110
1069	Topical review: spins and mechanics in diamond. Journal of Optics (United Kingdom), 2017, 19, 033001.	1.0	126
1070	Optical holonomic single quantum gates with a geometric spin under a zero field. Nature Photonics, 2017, 11, 309-314.	15.6	117
1071	Quantum stability of an ion in a Paul trap revisited. Molecular Physics, 2017, 115, 1927-1933.	0.8	0
1072	Continuous variables quantum computation over the vibrational modes of a single trapped ion. Optics Communications, 2017, 397, 166-174.	1.0	18
1073	Progress in optical frequency standards: ultracold Thulium, ions, and passive resonators. Journal of Physics: Conference Series, 2017, 793, 012013.	0.3	0

#	Article	IF	CITATIONS
1074	Geometrical characterization of reduced density matrices reveals quantum phase transitions in many-body systems. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1.	2.0	1
1075	Preparation and coherent manipulation of pure quantum states of a single molecular ion. Nature, 2017, 545, 203-207.	13.7	122
1076	Trapping ions and atoms optically. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 102001.	0.6	31
1077	Quantum simulation of the Abelian-Higgs lattice gauge theory with ultracold atoms. New Journal of Physics, 2017, 19, 063038.	1.2	53
1078	Cold interactions and chemical reactions of linear polyatomic anions with alkali-metal and alkaline-earth-metal atoms. Physical Chemistry Chemical Physics, 2017, 19, 16512-16523.	1.3	10
1079	A Study on Fast Gates for Large-Scale Quantum Simulation with Trapped Ions. Scientific Reports, 2017, 7, 46197.	1.6	14
1080	Local probe of single phonon dynamics in warm ion crystals. Nature Communications, 2017, 8, 15712.	5.8	28
1081	A generalization of the quantum Rabi model: exact solution and spectral structure. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 294004.	0.7	36
1082	Steady-state spin synchronization through the collective motion of trapped ions. Physical Review A, 2017, 95, .	1.0	18
1083	Spin readout of trapped electron qubits. Physical Review A, 2017, 95, .	1.0	9
1084	Element base of quantum informatics I. Qubits of a quantum computer based on single atoms in optical traps. Russian Microelectronics, 2017, 46, 109-120.	0.1	1
1085	Coherent Atom-Phonon Interaction through Mode Field Coupling in Hybrid Optomechanical Systems. Physical Review Letters, 2017, 118, 133603.	2.9	31
1086	Hybrid quantum systems with trapped charged particles. Physical Review A, 2017, 95, .	1.0	27
1087	Quantum lock-in force sensing using optical clock Doppler velocimetry. Nature Communications, 2017, 8, 14157.	5.8	26
1088	Multipartite entanglement accumulation in quantum states: Localizable generalized geometric measure. Physical Review A, 2017, 95, .	1.0	23
1089	The reachable set of single-mode quadratic Hamiltonians. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 155203.	0.7	7
1090	Playing tricks to ions. Applied Physics B: Lasers and Optics, 2017, 123, 1.	1.1	5
1091	Dynamical properties of the Rabi model. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 074004.	0.7	0

		CITATION R	EPORT	
#	Article		IF	CITATIONS
1092	Rapid generation of a three-dimensional entangled state for two atoms trapped in a cavi shortcuts to adiabatic passage. Quantum Information Processing, 2017, 16, 1.	ty via	1.0	8
1093	Frequency-renormalized multipolaron expansion for the quantum Rabi model. Physical R 95, .	eview A, 2017,	1.0	24
1094	Microwave photonics with superconducting quantum circuits. Physics Reports, 2017, 71	18-719, 1-102.	10.3	853
1095	Introduction and Outline. Springer Theses, 2017, , 1-6.		0.0	0
1096	Quantum Rabi model in a superfluid Bose-Einstein condensate. Physical Review A, 2017,	96, .	1.0	8
1097	Spectroscopy and Directed Transport of Topological Solitons in Crystals of Trapped Ions Review Letters, 2017, 119, 153602.	. Physical	2.9	29
1098	Quantum simulation of Abelian lattice gauge theories via state-dependent hopping. Phys 2017, 96, .	sical Review A,	1.0	22
1099	High-fidelity spin measurement on the nitrogen-vacancy center. New Journal of Physics, 2 103002.	2017, 19,	1.2	16
1100	Protected ultrastrong coupling regime of the two-photon quantum Rabi model with trap Physical Review A, 2017, 95, .	ped ions.	1.0	53
1101	Quantum sensing close to a dissipative phase transition: Symmetry breaking and critical metrological resources. Physical Review A, 2017, 96, .	ity as	1.0	42
1102	Quantum Sensors for the Generating Functional of Interacting Quantum Field Theories. Review X, 2017, 7, .	Physical	2.8	22
1103	Acoustic Traps and Lattices for Electrons in Semiconductors. Physical Review X, 2017, 7,		2.8	21
1104	Electron spin resonance from NV centers in diamonds levitating in an ion trap. New Journ Physics, 2017, 19, 033031.	ial of	1.2	52
1105	Demonstration of the Jaynes-Cummings ladder with Rydberg-dressed atoms. Physical Re	view A, 2017, 95,	1.0	24
1106	Single-ion quantum Otto engine with always-on bath interaction. Europhysics Letters, 20	017, 118, 60003.	0.7	22
1107	Generation of SchrĶdinger cat type states in a planar semiconductor heterostructure. F Review B, 2017, 96,	Physical	1.1	9
1108	Switchable particle statistics with an embedding quantum simulator. Physical Review A,	2017, 95, .	1.0	4
1109	The (2+1)-dimensional f-deformed Dirac oscillator in the presence of an external field. Int Journal of Modern Physics A, 2017, 32, 1750158.	cernational	0.5	1

#	Article	IF	CITATIONS
1110	Zeeman-insensitive cooling of a single atom to its two-dimensional motional ground state in tightly focused optical tweezers. Physical Review A, 2017, 95, .	1.0	17
1111	Qubit-mediated deterministic nonlinear gates for quantum oscillators. Scientific Reports, 2017, 7, 11536.	1.6	8
1112	A Single-Ion Reservoir as a High-Sensitive Sensor of Electric Signals. Scientific Reports, 2017, 7, 8336.	1.6	13
1113	Enabling quantum non-Markovian dynamics by injection of classical colored noise. Physical Review A, 2017, 95, .	1.0	23
1114	Protecting Quantum State in Timeâ€Dependent Decoherenceâ€Free Subspaces Without the Rotatingâ€Wave Approximation. Annalen Der Physik, 2017, 529, 1700186.	0.9	10
1115	Homodyne versus photon-counting quantum trajectories for dissipative Kerr resonators with two-photon driving. European Physical Journal: Special Topics, 2017, 226, 2705-2713.	1.2	28
1116	Time-dependent interaction between a two-level atom and a su(1,1) Lie algebra quantum system. International Journal of Modern Physics B, 2017, 31, 1750211.	1.0	3
1117	Strong cavity-pseudospin coupling in monolayer transition metal dichalcogenides. Physical Review B, 2017, 96, .	1.1	4
1118	3D Sisyphus Cooling of Trapped Ions. Physical Review Letters, 2017, 119, 043001.	2.9	31
1119	A mechanism for electromagnetic trapping of extended objects. Europhysics Letters, 2017, 118, 45002.	0.7	5
1120	Microscopic description for the emergence of collective dissipation in extended quantum systems. Scientific Reports, 2017, 7, 42050.	1.6	41
1121	Properties of entanglement between the two trapped ions. Indian Journal of Physics, 2017, 91, 1615-1624.	0.9	3
1122	Quantum-coherent phase oscillations in synchronization. Physical Review A, 2017, 95, .	1.0	42
1123	Parametric Instability Rates in Periodically Driven Band Systems. Physical Review X, 2017, 7, .	2.8	44
1124	Demonstration of Two-Atom Entanglement with Ultrafast Optical Pulses. Physical Review Letters, 2017, 119, 230501.	2.9	54
1125	Locally optimal symplectic control of multimode Gaussian states. Quantum Science and Technology, 2017, 2, 044014.	2.6	3
1126	Topological Edge States in Periodically Driven Trapped-Ion Chains. Physical Review Letters, 2017, 119, 210401.	2.9	24
1127	Circuit Cavity QED with Macroscopic Solid-State Spin Ensembles. Springer Theses, 2017, , .	0.0	3

#	Article	IF	Citations
1128	Unified framework to determine Gaussian states in continuous-variable systems. Physical Review A, 2017, 96, .	1.0	5
1129	Reconstruction of the Jaynes-Cummings field state of ionic motion in a harmonic trap. Physical Review A, 2017, 95, .	1.0	24
1130	Realization of Translational Symmetry in Trapped Cold Ion Rings. Physical Review Letters, 2017, 118, 053001.	2.9	35
1131	Fast ion swapping for quantum-information processing. Physical Review A, 2017, 95, .	1.0	40
1132	Quantum Synchronization Blockade: Energy Quantization Hinders Synchronization of Identical Oscillators. Physical Review Letters, 2017, 118, 243602.	2.9	69
1133	Trapped Ions in Rydberg-Dressed Atomic Gases. Physical Review Letters, 2017, 118, 263201.	2.9	23
1134	Multispecies Trapped-Ion Node for Quantum Networking. Physical Review Letters, 2017, 118, 250502.	2.9	66
1135	Effects of external fields, dimension and polarization on the resonance fluorescence of quantum dots. Physica B: Condensed Matter, 2017, 506, 23-27.	1.3	2
1136	Stable Trapping of Multielectron Helium Bubbles in a Paul Trap. Journal of Low Temperature Physics, 2017, 187, 580-587.	0.6	7
1139	Local Detection of Correlations in Composite Quantum Systems. Springer Theses, 2017, , 69-128.	0.0	0
1140	Multidimensional Nonlinear Spectroscopy of Controllable Quantum Systems. Springer Theses, 2017, , 201-256.	0.0	0
1141	Dynamics and Characterization of Composite Quantum Systems. Springer Theses, 2017, , .	0.0	4
1142	Trapped Ion Spectroscopy. Springer Theses, 2017, , 205-232.	0.0	0
1143	Quantum-Enhanced Nonlinear Spectroscopy. Springer Theses, 2017, , .	0.0	1
1144	Mà İmer–Sà ırensen entangling gate for cavity QED systems. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 195501.	0.6	3
1146	Coherent versus measurement-based feedback for controlling a single qubit. Quantum Science and Technology, 2017, 2, 025001.	2.6	9
1147	Dirac bi-spinor entanglement under local noise and its simulation by Jaynes-Cummings interactions. Journal of Physics: Conference Series, 2017, 880, 012063.	0.3	1
1148	Mapping of the 2 + 1 q-deformed Dirac oscillator onto the q-deformed Jaynes-Cummings model. Europhysics Letters, 2017, 120, 44002.	0.7	6

#	Article	IF	CITATIONS
1149	Picturing stimulated Raman adiabatic passage: a STIRAP tutorial. Advances in Optics and Photonics, 2017, 9, 563.	12.1	50
1150	High-order corrections on the laser cooling limit in the Lamb-Dicke regime. Optics Express, 2017, 25, 1314.	1.7	3
1151	Simple delay-limited sideband locking with heterodyne readout. Optics Express, 2017, 25, 1582.	1.7	12
1152	UV-sensitive superconducting nanowire single photon detectors for integration in an ion trap. Optics Express, 2017, 25, 8705.	1.7	40
1153	53-dB phase noise suppression and Hz-range linewidth emission in compact Brillouin/erbium fiber laser. Optics Express, 2017, 25, 19216.	1.7	18
1154	High mechanical bandwidth fiber-coupled Fabry-Perot cavity. Optics Express, 2017, 25, 20932.	1.7	19
1155	Doppler cooling thermometry of a multilevel ion in the presence of micromotion. Physical Review A, 2017, 96, .	1.0	18
1156	Thermodynamics of a qubit undergoing dephasing. Journal of Physics: Conference Series, 2017, 841, 012019.	0.3	2
1157	Micromotion-enabled improvement of quantum logic gates with trapped ions. New Journal of Physics, 2017, 19, 113038.	1.2	10
1158	General implementation of arbitrary nonlinear quadrature phase gates. Physical Review A, 2018, 97, .	1.0	40
1159	Controlling chaotic spin-motion entanglement of ultracold atoms via spin-orbit coupling. Chaos, 2018, 28, 023115.	1.0	11
1160	Multiple transparency windows and Fano interferences induced by dipole-dipole couplings. Physical Review A, 2018, 97, .	1.0	8
1161	Singularities of Floquet scattering and tunneling. Physical Review A, 2018, 97, .	1.0	2
1162	Analog quantum simulation of generalized Dicke models in trapped ions. Physical Review A, 2018, 97, .	1.0	29
1163	Single-Atom Heat Machines Enabled by Energy Quantization. Physical Review Letters, 2018, 120, 170601.	2.9	41
1164	Orbital State Manipulation of a Diamond Nitrogen-Vacancy Center Using a Mechanical Resonator. Physical Review Letters, 2018, 120, 167401.	2.9	43
1165	Two-photon processes based on quantum commutators. Physical Review A, 2018, 97, .	1.0	3
1166	Time-dependent nonlinear Jaynes-Cummings dynamics of a trapped ion. Physical Review A, 2018, 97, .	1.0	17

# 1167	ARTICLE Controlled ultrafast transfer and stability degree of generalized coherent states of a kicked two-level ion. Results in Physics, 2018, 9, 424-431.	IF 2.0	CITATIONS
1168	Optomechanically induced anomalous population inversion in a hybrid system. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 414017.	0.7	3
1169	Magnetic field fluctuations analysis for the ion trap implementation of the quantum Rabi model in the deep strong coupling regime. Journal of Modern Optics, 2018, 65, 745-753.	0.6	3
1170	Measurement of quantum memory effects and its fundamental limitations. Physical Review A, 2018, 97, .	1.0	28
1171	Nonlinear quantum Rabi model in trapped ions. Physical Review A, 2018, 97, .	1.0	39
1172	Distance scaling of electric-field noise in a surface-electrode ion trap. Physical Review A, 2018, 97, .	1.0	40
1173	Entanglement measures in embedding quantum simulators with nuclear spins. Physical Review A, 2018, 97, .	1.0	11
1174	A distinguishable single excited-impurity in a Bose–Einstein condensate. Laser Physics Letters, 2018, 15, 025501.	0.6	5
1175	Experimental quantum simulation of fermion-antifermion scattering via boson exchange in a trapped ion. Nature Communications, 2018, 9, 195.	5.8	21
1176	Quantum weak and modular values in enlarged Hilbert spaces. Physical Review A, 2018, 97, .	1.0	7
1177	Emergence of entanglement with temperature and time in factorization-surface states. Physical Review A, 2018, 97, .	1.0	7
1178	Measuring Anomalous Heating in a Planar Ion Trap with Variable Ion-Surface Separation. Physical Review Letters, 2018, 120, 023201.	2.9	44
1179	Relaxation to Negative Temperatures in Double Domain Systems. Physical Review Letters, 2018, 120, 060403.	2.9	23
1180	The effect of atomic response time in the theory of Doppler cooling of trapped ions. Journal of Modern Optics, 2018, 65, 577-584.	0.6	3
1181	Observation of Hopping and Blockade of Bosons in a Trapped Ion Spin Chain. Physical Review Letters, 2018, 120, 073001.	2.9	35
1182	Discrete Time-Crystalline Order in Cavity and Circuit QED Systems. Physical Review Letters, 2018, 120, 040404.	2.9	150
1183	Squeezed coherent states of motion for ions confined in quadrupole and octupole ion traps. Annals of Physics, 2018, 388, 100-113.	1.0	7
1184	Quantum-enhanced sensing from hyperentanglement. Physical Review A, 2018, 97, .	1.0	8

#	Article	IF	CITATIONS
1185	Playing Tricks to lons. , 2018, , 117-128.		0
1186	Optical Trapping of Ion Coulomb Crystals. Physical Review X, 2018, 8, .	2.8	31
1187	Sustained State-Independent Quantum Contextual Correlations from a Single Ion. Physical Review Letters, 2018, 120, 180401.	2.9	35
1188	Quantum Simulation of the Quantum Rabi Model in a Trapped Ion. Physical Review X, 2018, 8, .	2.8	84
1189	One-way quantum computing in superconducting circuits. Physical Review A, 2018, 97, .	1.0	15
1190	Fast, High-Precision Optical Polarization Synthesizer for Ultracold-Atom Experiments. Physical Review Applied, 2018, 9, .	1.5	17
1191	Hybrid setup for stable magnetic fields enabling robust quantum control. Scientific Reports, 2018, 8, 4404.	1.6	5
1192	Propagation of arbitrary initial wave packets in a quantum parametric oscillator: Instability zones for higher order moments. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 1202-1206.	0.9	3
1193	Frequency stabilization of multiple lasers on a single medium-finesse cavity. Laser Physics Letters, 2018, 15, 045702.	0.6	2
1194	Microscopic approach to field dissipation in the Jaynes–Cummings model. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 015301.	0.7	6
1195	Quantum discord and its allies: a review of recent progress. Reports on Progress in Physics, 2018, 81, 024001.	8.1	150
1196	Dynamical quantum correlations after sudden quenches. Physical Review A, 2018, 98, .	1.0	18
1197	EIT Ground State Cooling Scheme of 171Yb+ Based on the 2S1/2→2P1/2 Cooling Transition. Journal of Russian Laser Research, 2018, 39, 568-574.	0.3	5
1198	Transient non-confining potentials for speeding up a single ion heat pump. New Journal of Physics, 2018, 20, 105001.	1.2	4
1199	Bloch-like energy oscillations. Physical Review A, 2018, 98, .	1.0	5
1200	Scaling Phononic Quantum Networks of Solid-State Spins with Closed Mechanical Subsystems. Physical Review X, 2018, 8, .	2.8	46
1201	Method for determination of technical noise contributions to ion motional heating. Journal of Applied Physics, 2018, 124, .	1.1	10
1202	Microscopic Control and Detection of Ultracold Strontium in Optical-Tweezer Arrays. Physical	2.8	109

ARTICLE IF CITATIONS Alkaline-Earth Atoms in Optical Tweezers. Physical Review X, 2018, 8, . 1203 2.8 125 Photon-recoil spectroscopy: Systematic shifts and nonclassical enhancements. Physical Review A, 1204 1.0 2018, 98, . Critical-point behavior of a measurement-based quantum heat engine. Physical Review E, 2018, 98, . 0.8 1205 21 A scalable hardware and software control apparatus for experiments with hybrid quantum systems. 1206 Review of Scientific Instruments, 2018, 89, 113116. Simulating the performance of a distance-3 surface code in a linear ion trap. New Journal of Physics, 1207 1.2 55 2018, 20, 043038. Negative-temperature-state relaxation and reservoir-assisted quantum entanglement in 1208 1.0 double-spin-domain systems. Physical Review A, 2018, 98, . Effective metal-insulator nonequilibrium quantum phase transition in the Su-Schrieffer-Heeger 1209 1.1 6 model. Physical Review B, 2018, 98, . Connecting nth order generalised quantum Rabi models: Emergence of nonlinear spin-boson coupling 1210 2.8 36 via spin rotations. Npj Quantum Information, 2018, 4, . Engineering steady entanglement for trapped ions at finite temperature by dissipation. Physical Review 1211 1.0 10 A, 2018, 98, . Quantum Simulation with a Trilinear Hamiltonian. Physical Review Letters, 2018, 121, 130502. Digital quantum simulation of lattice gauge theories in three spatial dimensions. New Journal of 1214 77 1.2 Physics, 2018, 20, 093001. A double Paul trap system for the electronic coupling of ions. European Physical Journal: Special 1.2 Topics, 2018, 227, 445-456. Prospects of reaching the quantum regime in Liâ€"Yb⁺ mixtures. Journal of Physics B: 1216 0.6 22 Atomic, Molecular and Optical Physics, 2018, 51, 195001. NOON States of Nine Quantized Vibrations in Two Radial Modes of a Trapped Ion. Physical Review 56 Letters, 2018, 121, 160502. 1218 Phonon-Number-Sensitive Electromechanics. Physical Review Letters, 2018, 121, 183601. 2.9 48 Quantum metrology with nonclassical states of atomic ensembles. Reviews of Modern Physics, 2018, 16.4 Structural Phase Transitions. Springer Theses, 2018, , 25-53. 0.0 1220 0 1221 Superradiant QPT with a Single Trapped Ion. Springer Theses, 2018, , 123-147.

#	Article	IF	CITATIONS
1222	Concluding Remarks and Outlook. Springer Theses, 2018, , 165-172.	0.0	0
1223	Huygens' Metadevices for Parametric Waves. Physical Review X, 2018, 8, .	2.8	79
1224	Towards quantum entanglement of micromirrors via a two-level atom and radiation pressure. Frontiers of Physics, 2018, 13, 1.	2.4	17
1225	Surface trap with dc-tunable ion-electrode distance. Review of Scientific Instruments, 2018, 89, 093102.	0.6	7
1226	Rigorous Model of Nonlinear Optomechanical Coupling in Micro- and Nano-Structured Resonant Cavities. , 2018, , .		0
1227	Floquet scattering theory based on effective Hamiltonians of driven systems. Physical Review B, 2018, 98, .	1.1	13
1228	Strongly Correlated Bosons on a Dynamical Lattice. Physical Review Letters, 2018, 121, 090402.	2.9	37
1229	Artificial gauge fields and topology with ultracold atoms in optical lattices. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 193001.	0.6	12
1230	Stochastic laser cooling enabled by many-body effects. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 135002.	0.6	2
1231	General solution to inhomogeneous dephasing and smooth pulse dynamical decoupling. New Journal of Physics, 2018, 20, 033011.	1.2	24
1232	Multi-second magnetic coherence in a single domain spinor Bose–Einstein condensate. New Journal of Physics, 2018, 20, 053008.	1.2	15
1233	Deterministic nonlinear phase gates induced by a single qubit. New Journal of Physics, 2018, 20, 053022.	1.2	13
1234	Macroscopic quantum states: Measures, fragility, and implementations. Reviews of Modern Physics, 2018, 90, .	16.4	110
1235	Hybrid entanglement between a trapped ion and a mirror. European Physical Journal Plus, 2018, 133, 1.	1.2	2
1236	Phase-space study of surface-electrode Paul traps: Integrable, chaotic, and mixed motions. Physical Review A, 2018, 97, .	1.0	6
1237	Increased dimensionality of Raman cooling in a slightly nonorthogonal optical lattice. Physical Review A, 2018, 98, .	1.0	3
1238	Solid-state magnetic traps and lattices. Physical Review B, 2018, 97, .	1.1	2
1239	Mathematical Modeling of Resonant Processes in Confined Geometry of Atomic and Atom-Ion Traps. EPJ Web of Conferences, 2018, 173, 01008.	0.1	0

# 1240	ARTICLE Transformation Optics: Large Multiphysics Simulation of Nonlinear Optomechanical Coupling in Microstructured Resonant Cavities, IEEE Microwave Magazine, 2018, 19, 79-84	IF 0.7	CITATIONS
1241	A novel derivation of quantum propagator useful for time-dependent trapping and control. European Physical Journal Plus, 2018, 133, 1.	1.2	4
1242	Phonon Lasing from Optical Frequency Comb Illumination of Trapped Ions. Physical Review Letters, 2018, 121, 043201.	2.9	22
1243	Quantum phase gate based on multiphoton process in multimode cavity QED. Quantum Information Processing, 2018, 17, 1.	1.0	8
1244	Liouvillian of the Open STIRAP Problem. Entropy, 2018, 20, 20.	1.1	9
1245	Trap-induced shape resonances in an ultracold few-body system of an atom and static impurities. Physical Review A, 2018, 98, .	1.0	10
1246	Information entropies of multi-qubit Rabi model beyond the rotating wave approximation. Nonlinear Dynamics, 2018, 94, 1689-1701.	2.7	11
1247	High-Voltage-Assisted Mechanical Stabilization of Single-Molecule Junctions. Nano Letters, 2018, 18, 4727-4733.	4.5	20
1248	Operational effects of the UNOT gate on classical and quantum correlations. Science Bulletin, 2018, 63, 765-770.	4.3	4
1249	Periodically driven integrable systems with long-range pair potentials. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 334002.	0.7	25
1250	Probing microscopic models for system-bath interactions via parametric driving. Physical Review A, 2018, 98, .	1.0	1
1251	Multiqubit and multilevel quantum reinforcement learning with quantum technologies. PLoS ONE, 2018, 13, e0200455.	1.1	25
1252	Doppler laser cooling and vibrational spectrum of ²⁴ Mg ⁺ ions in a linear Paul trap. Quantum Electronics, 2018, 48, 448-452.	0.3	5
1253	Motional studies of one and two laser-cooled trapped ions for electric-field sensing applications. Journal of Modern Optics, 2018, 65, 613-621.	0.6	4
1254	Intensity stabilisation of optical pulse sequences for coherent control of laser-driven qubits. Applied Physics B: Lasers and Optics, 2018, 124, 1.	1.1	7
1255	Deterministic quantum dense coding networks. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 1709-1715.	0.9	10
1256	Sideband cooling of small ion Coulomb crystals in a Penning trap. Journal of Modern Optics, 2018, 65, 549-559.	0.6	16
1257	Experimental apparatus for overlapping a ground-state cooled ion with ultracold atoms. Journal of Modern Optics, 2018, 65, 501-519.	0.6	19

#	Article	IF	CITATIONS
1258	Cavity-mediated collective laser-cooling of a non-interacting atomic gas inside an asymmetric trap to very low temperatures. Journal of Modern Optics, 2018, 65, 693-705.	0.6	3
1259	Note: Sensitive fluorescence detection through minimizing the scattering light by anti-reflective nanostructured materials. Review of Scientific Instruments, 2018, 89, 046103.	0.6	2
1260	Pulsed dynamical decoupling for fast and robust two-qubit gates on trapped ions. Physical Review A, 2018, 97, .	1.0	20
1261	Estimating localizable entanglement from witnesses. New Journal of Physics, 2018, 20, 063017.	1.2	11
1262	Printed-circuit-board linear Paul trap for manipulating single nano- and microparticles. Review of Scientific Instruments, 2018, 89, 083101.	0.6	3
1263	Fundamental Limitations for Measurements in Quantum Many-Body Systems. Physical Review Letters, 2018, 121, 080406.	2.9	5
1265	Relativistic motion enhanced quantum estimation of $\$ appear $\$ i $^{\circ}$ -deformation of spacetime. European Physical Journal C, 2018, 78, 1.	1.4	8
1266	String order parameters for one-dimensional Floquet symmetry protected topological phases. Physical Review B, 2018, 97, .	1.1	10
1267	Energy consumption for ion-transport in a segmented Paul trap. New Journal of Physics, 2018, 20, 065002.	1.2	18
1268	Rigorous simulation of nonlinear optomechanical coupling in micro- and nano-structured resonant cavities. International Journal of Optomechatronics, 2018, 12, 11-19.	3.3	3
1269	Carrier thermometry of cold ytterbium atoms in an optical lattice clock. Scientific Reports, 2018, 8, 7927.	1.6	5
1270	Study of open systems with molecules in isotropic liquids. Modern Physics Letters B, 2018, 32, 1830002.	1.0	3
1271	Coupling two spin qubits with a high-impedance resonator. Physical Review B, 2018, 97, .	1.1	33
1272	Introduction to topological quantum computation with non-Abelian anyons. Quantum Science and Technology, 2018, 3, 045004.	2.6	48
1273	Improved microparticle electrodynamic ion traps for physics teaching. American Journal of Physics, 2018, 86, 539-558.	0.3	8
1274	Scale-invariant freezing of entanglement. Physical Review A, 2018, 97, .	1.0	10
1275	Noise analysis for high-fidelity quantum entangling gates in an anharmonic linear Paul trap. Physical Review A, 2018, 97, .	1.0	35
1276	A flexible positron spectrometer for the undergraduate laboratory. American Journal of Physics, 2018, 86, 549-558.	0.3	1

#	Article	IF	Citations	
1277	Classical and quantum dynamics of a trapped ion coupled to a charged nanowire. New Journal of Physics, 2019, 21, 013030.	1.2	3	
1278	Measurement-induced cooling of a qubit in structured environments. Physical Review A, 2019, 100, .	1.0	6	
1279	Dissipative dynamics in a tunable Rabi dimer with periodic harmonic driving. Journal of Chemical Physics, 2019, 150, 184116.	1.2	11	
1280	Active energy transport and the role of symmetry breaking in microscopic power grids. Physical Review A, 2019, 100, .	1.0	9	
1281	Coherently driving a single quantum two-level system with dichromatic laser pulses. Nature Physics, 2019, 15, 941-946.	6.5	58	
1282	Tuning nonthermal distributions to thermal ones in time-dependent Paul traps. Physical Review A, 2019, 100, .	1.0	4	
1283	Cold hybrid ion-atom systems. Reviews of Modern Physics, 2019, 91, .	16.4	163	
1284	Entropy Exchange and Thermodynamic Properties of the Single Ion Cooling Process. Entropy, 2019, 21, 650.	1.1	1	
1285	Quantum correlations in periodically driven spin chains: Revivals and steady-state properties. Journal of Magnetism and Magnetic Materials, 2019, 491, 165546.	1.0	6	
1286	Quantum thermal absorption machines: refrigerators, engines and clocks. Contemporary Physics, 2019, 60, 164-187.	0.8	89	
1287	Continuous-monitoring measured signals bounded by past and future conditions in enlarged quantum systems. Quantum Information Processing, 2019, 18, .	1.0	1	
1288	Oxides: An answer to the qubit problem?. International Journal of Modern Physics B, 2019, 33, 1930003.	1.0	2	
1289	Quantum-enhanced sensing of a single-ion mechanical oscillator. Nature, 2019, 572, 86-90.	13.7	69	
1290	Motional states of laser cooled Yb ions in an optimized radiofrequency trap. Laser Physics, 2019, 29, 095201.	0.6	3	
1291	Observation of Interactions between Trapped Ions and Ultracold Rydberg Atoms. Physical Review Letters, 2019, 122, 253401.	2.9	23	
1292	Optimization of Raman Cooling of 25Mg+ Ion to Ground Vibrational State in Linear Paul Trap. Bulletin of the Lebedev Physics Institute, 2019, 46, 138-142.	0.1	0	
1293	Universal Uhrig Dynamical Decoupling for Bosonic Systems. Physical Review Letters, 2019, 123, 010501.	2.9	5	
1294	Multiphonon interactions between nitrogen-vacancy centers and nanomechanical resonators. Physical Review A, 2019, 100, .	1.0	16	
		CITATION RE	EPORT	
------	---	---------------------------------	-------	-----------
#	Article		IF	CITATIONS
1295	Highly Polarizable Rydberg Ion in a Paul Trap. Physical Review Letters, 2019, 123, 1536	502.	2.9	8
1296	Modular quantum computation in a trapped ion system. Nature Communications, 201	9, 10, 4692.	5.8	8
1297	Quantum decoherence. Physics Reports, 2019, 831, 1-57.		10.3	178
1298	Realization of controllable open system with NMR. New Journal of Physics, 2019, 21, C	93008.	1.2	8
1299	Simulation of Quantum Universe. Journal of Physics: Conference Series, 2019, 1275, 0	12057.	0.3	0
1300	One-shot conclusive multiport quantum dense coding capacities. Physical Review A, 20	019, 100, .	1.0	5
1301	Three-Dimensional Paul Trap with High Secular Frequency for Compact Optical Clock. Lebedev Physics Institute, 2019, 46, 297-300.	Bulletin of the	0.1	2
1302	Phase-controlled and chaos-assisted or -suppressed quantum entanglement for a spin- Bose-Einstein condensate. Chaos, 2019, 29, 103148.	orbit coupled	1.0	7
1303	Systematic uncertainty due to background-gas collisions in trapped-ion optical clocks. Review A, 2019, 100, .	Physical	1.0	13
1304	Enhanced Multiqubit Phase Estimation in Noisy Environments by Local Encoding. Phys Letters, 2019, 123, 180503.	ical Review	2.9	10
1305	Improved Wavelength Measurement of 2S1/2→2P1/2 and 2D3/2→3[3/2]1/2 Transit Russian Laser Research, 2019, 40, 375-381.	ions in Yb+. Journal of	0.3	8
1306	Coherent coupling between the motional fluctuation of a mirror and a trapped ion insi cavity: Memory, state transfer, and entanglement. Physical Review A, 2019, 100, .	de an optical	1.0	3
1307	Measuring the temperature and heating rate of a single ion by imaging. New Journal of 113014.	⁻ Physics, 2019, 21,	1.2	8
1308	Implementing two-qubit phase gates by exchanging non-Abelian quasiparticles. Quant Processing, 2019, 18, 1.	um Information	1.0	3
1309	Phonon Pair Creation by Inflating Quantum Fluctuations in an Ion Trap. Physical Review 123, 180502.	v Letters, 2019,	2.9	36
1310	Compound atom-ion Josephson junction: Effects of finite temperature and ion motion A, 2019, 100, .	. Physical Review	1.0	6
1311	Ultrafast infrared spectroscopy with single molecular ions. New Journal of Physics, 201	.9, 21, 083025.	1.2	1
1312	Intrasystem Entanglement Generator and Unambiguos Bell States Discriminator on Ch	ip., 2019, , .		2

		CITATION R	EPORT	
#	Article		IF	Citations
1313	Nonselective Paul ion trap loading with a light-emitting diode. Applied Physics Letters,	2019, 115, .	1.5	3
1315	Coherent Control of the Rotational Degree of Freedom of a Two-Ion Coulomb Crystal. Review Letters, 2019, 123, 133202.	Physical	2.9	17
1316	Analytical investigation of one-dimensional Doppler cooling of trapped ions with <mml xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">ĥ -type configuration. Physical Review /</mml:mi </mml 	:math A, 2019, 100, .	1.0	7
1317	State-selective coherent motional excitation as a new approach for the manipulation, s and state-to-state chemistry of single molecular ions. Faraday Discussions, 2019, 217,	spectroscopy 561-583.	1.6	10
1318	Population dynamics in sideband cooling of trapped ions outside the Lamb-Dicke regin Review A, 2019, 99, .	ne. Physical	1.0	8
1319	Fast and Scalable Quantum Information Processing with Twoâ€Electron Atoms in Opti Arrays. Advanced Quantum Technologies, 2019, 2, 1800067.	cal Tweezer	1.8	18
1320	Quantum Rabi Model with Two-Photon Relaxation. Physical Review Letters, 2019, 122,	043601.	2.9	17
1321	Observation of superconductivity and surface noise using a single trapped ion as a field Physical Review A, 2019, 99, .	d probe.	1.0	15
1322	Quantum absorption refrigerator with trapped ions. Nature Communications, 2019, 10), 202.	5.8	157
1323	Spin-Boson Model as A Simulator of Non-Markovian Multiphoton Jaynes-Cummings Mo 2019, 11, 695.	odels. Symmetry,	1.1	10
1324	Multi-path interferometry using single photons. Journal of Physics Communications, 20)19, 3, 045012.	0.5	1
1325	A quantum engineer's guide to superconducting qubits. Applied Physics Reviews, 2019	9, 6, .	5.5	909
1326	Honeycomblike Phononic Networks of Spins with Closed Mechanical Subsystems. Phys Applied, 2019, 11, .	sical Review	1.5	7
1327	Spatiotemporal Bloch states of a spin–orbit coupled Bose–Einstein condensate in Chinese Physics B, 2019, 28, 056701.	an optical lattice*.	0.7	6
1328	Simulating the Klein tunneling of pseudospin-one Maxwell particles with trapped ions. Section A: General, Atomic and Solid State Physics, 2019, 383, 2462-2466.	Physics Letters,	0.9	1
1329	Trapped-ion quantum computing: Progress and challenges. Applied Physics Reviews, 20	019, 6, .	5.5	680
1330	On the properties of a class of higher-order Mathieu equations originating from a para quantum oscillator. Nonlinear Dynamics, 2019, 96, 737-750.	netric	2.7	10
1331	Operation of a Microfabricated Planar Ionâ€Trap for Studies of a Yb ⁺ –k System. Physica Status Solidi (B): Basic Research, 2019, 256, 1800647.	b Hybrid Quantum	0.7	5

#	Article	IF	CITATIONS
1332	Electric feedback cooling of single charged nanoparticles in an optical trap. Physical Review A, 2019, 99, .	1.0	18
1333	Generalized hydrodynamics, quasiparticle diffusion, and anomalous local relaxation in random integrable spin chains. Physical Review B, 2019, 99, .	1.1	20
1334	Far-from-equilibrium noise-heating and laser-cooling dynamics in radio-frequency Paul traps. Physical Review A, 2019, 99, .	1.0	6
1335	â€~Near'-Cat States: Nonclassicality and Generation. Journal of Russian Laser Research, 2019, 40, 121-131.	0.3	8
1336	Stabilization of All Bell States in a Lossy Coupled-Cavity Array. Entropy, 2019, 21, 402.	1.1	1
1337	Synthetic spin–orbit coupling and topological polaritons in Janeys–Cummings lattices. Npj Quantum Information, 2019, 5, .	2.8	7
1338	2000-Times Repeated Imaging of Strontium Atoms in Clock-Magic Tweezer Arrays. Physical Review Letters, 2019, 122, 173201.	2.9	76
1339	Quantum Computing Circuits and Devices. IEEE Design and Test, 2019, 36, 69-94.	1.1	42
1340	Kosterlitz-Thouless scaling at many-body localization phase transitions. Physical Review B, 2019, 99, .	1.1	87
1341	On the κ-deformed Dirac oscillator in (2 + 1)-dimensions. Modern Physics Letters A, 2019, 34, 1950089.	0.5	9
1342	Reexamination of Bessel beams: A generalized scheme to derive optical vortices. Physical Review A, 2019, 99, .	1.0	18
1343	Simulating Anisotropic quantum Rabi model via frequency modulation. Scientific Reports, 2019, 9, 4569.	1.6	14
1344	Metrological Nonlinear Squeezing Parameter. Physical Review Letters, 2019, 122, 090503.	2.9	54
1345	Quantum simulation of multiphoton and nonlinear dissipative spin-boson models. Physical Review A, 2019, 99, .	1.0	14
1346	Universal quantum computing with thermal state bosonic systems. Physical Review A, 2019, 99, .	1.0	7
1347	Emulation of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:mi>n</mml:mi> -photon Jaynes-Cummings and anti-Jaynes-Cummings models via parametric modulation of a cyclic qutrit. Physical Review A. 2019. 99</mml:math 	1.0	9
1348	Feasible platform to study negative temperatures. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 065501.	0.6	5
1349	Coherently displaced oscillator quantum states of a single trapped atom. Quantum Science and Technology, 2019, 4, 024010.	2.6	7

#	Article	IF	Citations
1350	Quantum simulation of the Weyl equation with a trapped ion. Quantum Information Processing, 2019, 18, 1.	1.0	3
1351	Enhanced Quantum Synchronization via Quantum Machine Learning. Advanced Quantum Technologies, 2019, 2, 1800076.	1.8	10
1352	Chip-Integrated Voltage Sources for Control of Trapped Ions. Physical Review Applied, 2019, 11, .	1.5	36
1353	Atomic Bell measurement via two-photon interactions. Physical Review A, 2019, 99, .	1.0	19
1354	The unit of time: Present and future directions. Comptes Rendus Physique, 2019, 20, 153-168.	0.3	37
1355	Phase boundaries in an alternating-field quantum XY model with Dzyaloshinskii-Moriya interaction: Sustainable entanglement in dynamics. Physical Review B, 2019, 99, .	1.1	11
1356	Quantum optical microcombs. Nature Photonics, 2019, 13, 170-179.	15.6	295
1357	A compact radiofrequency drive based on interdependent resonant circuits for precise control of ion traps. Review of Scientific Instruments, 2019, 90, 023201.	0.6	5
1358	Towards generation of millihertz-linewidth laser light with 10â^'18frequency instability via four-wave mixing. Applied Physics Letters, 2019, 114, 051104.	1.5	4
1359	Evolution of entanglement in quantum neural network. IOP Conference Series: Materials Science and Engineering, 2019, 618, 012006.	0.3	1
1360	Adaptive Bayesian phase estimation for quantum error correcting codes. New Journal of Physics, 2019, 21, 123027.	1.2	7
1361	Distance scaling and polarization of electric-field noise in a surface ion trap. Physical Review A, 2019, 100, .	1.0	12
1362	Impact of ion motion on atom-ion confinement-induced resonances in hybrid traps. Physical Review A, 2019, 100, .	1.0	8
1363	Boson Sampling with 20 Input Photons and a 60-Mode Interferometer in a <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>1</mml:mn><mml:mn>0</mml:mn><mml:mn>14</mml:mn><mml:mn>0</mml:mn><mml:mn>14</mml:mn><mml:mn>0</mml:mn>14<mml:mn>0</mml:mn>14<mml:mn>0</mml:mn>14014014014014<td>ıp^{2:2}/mml:</td><td>math>-Dime</td></mml:math>	ıp ^{2:2} /mml:	math>-Dime
1364	In uence of Stark shift and detuning on atomic entanglement induced by a thermal eld of one-mode cavity. Journal of Physics: Conference Series, 2019, 1368, 022011.	0.3	1
1365	The mixed quantum Rabi model. Scientific Reports, 2019, 9, 18353.	1.6	12
1366	Intrinsic Relations of Bipartite Quantum Resources in Tripartite Systems. Annalen Der Physik, 2019, 531, 1800358.	0.9	7
1367	Ultracold molecules for quantum simulation: rotational coherences in CaF and RbCs. Quantum Science and Technology, 2019, 4, 014010.	2.6	96

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#	Article	IF	CITATIONS
1368	Atomic swap gate, driven by position fluctuations, in dispersive cavity optomechanics. Journal of Modern Optics, 2019, 66, 438-447.	0.6	3
1369	Modular-value-based metrology with spin coherent pointers. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 153-157.	0.9	5
1370	Quantum well photoelastic comb for ultra-high frequency cavity optomechanics. Quantum Science and Technology, 2019, 4, 014011.	2.6	7
1371	Controlling systematic frequency uncertainties at the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mn>10</mml:mn><mml:mrow><mml level in linear Coulomb crystals. Physical Review A, 2019, 99, .</mml </mml:mrow></mml:msup></mml:math 	:mɒ@â^' <td>mn4l2mo><m< td=""></m<></td>	m n4l2 mo> <m< td=""></m<>
1372	Optomechanical damping basis. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 08LT02.	0.7	10
1373	Superradiant Quantum Materials. Physical Review Letters, 2019, 122, 017401.	2.9	93
1374	Introduction to the Dicke Model: From Equilibrium to Nonequilibrium, and <i>Vice Versa</i> . Advanced Quantum Technologies, 2019, 2, 1800043.	1.8	200
1375	Quantum autoencoders via quantum adders with genetic algorithms. Quantum Science and Technology, 2019, 4, 014007.	2.6	42
1376	Nonclassicality of photon-subtracted squeezing-enhanced coherent state. Physica A: Statistical Mechanics and Its Applications, 2019, 514, 290-297.	1.2	7
1377	\$Sp(4; mathbb{R})\$ squeezing for Bloch four-hyperboloid via the non-compact Hopf map. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 055303.	0.7	8
1378	Versatile surface ion trap with fork junction for effective cooling. Physica Scripta, 2020, 95, 045103.	1.2	3
1379	Quantum Computers as Universal Quantum Simulators: Stateâ€ofâ€theâ€Art and Perspectives. Advanced Quantum Technologies, 2020, 3, 1900052.	1.8	80
1380	Phase-Preserving Linear Amplifiers Not Simulable by the Parametric Amplifier. Physical Review Letters, 2020, 125, 163603.	2.9	7
1381	Integrated multi-wavelength control of an ion qubit. Nature, 2020, 586, 538-542.	13.7	161
1382	Integrated optical multi-ion quantum logic. Nature, 2020, 586, 533-537.	13.7	160
1383	Coherently Manipulated 2D Ion Crystal in a Monolithic Paul Trap. Advanced Quantum Technologies, 2020, 3, 2000068.	1.8	10
1384	2D Linear Trap Array for Quantum Information Processing. Advanced Quantum Technologies, 2020, 3, 200031.	1.8	19
1385	Distributing entangled state using quantum repeater protocol: Trapped atomic ions in optomechanical cavities. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126728.	0.9	7

#	Article	IF	CITATIONS
1386	The Panopticon device: An integrated Paul-trap–hemispherical mirror system for quantum optics. Review of Scientific Instruments, 2020, 91, 113201.	0.6	13
1387	Structural phase transition of the ion crystals embedded in an optical lattice. Physical Review A, 2020, 102, .	1.0	7
1388	NOON state generation beyond the Lamb–Dicke limit in trapped-ion systems. Quantum Information Processing, 2020, 19, 1.	1.0	0
1389	Statistical properties of the two-dimensional Dirac oscillator with spin–orbit coupling. Annals of Physics, 2020, 423, 168328.	1.0	4
1390	Efficient Ground-State Cooling of Large Trapped-Ion Chains with an Electromagnetically-Induced-Transparency Tripod Scheme. Physical Review Letters, 2020, 125, 053001.	2.9	36
1391	Superconducting quantum computing: a review. Science China Information Sciences, 2020, 63, 1.	2.7	152
1392	Topological classification of dynamical quantum phase transitions in the xy chain. Scientific Reports, 2020, 10, 12766.	1.6	23
1393	Rating the performance of noisy teleportation using fluctuations in fidelity. Physical Review A, 2020, 102, .	1.0	5
1394	Generation of Entanglement between Two Two-Level Atoms Coupled to a Microtoroidal Cavity Via Thermal Field. Quantum Reports, 2020, 2, 343-351.	0.6	1
1395	Trapped Rydberg ions: A new platform for quantum information processing. Advances in Atomic, Molecular and Optical Physics, 2020, 69, 233-306.	2.3	9
1396	Signatures of Associative Memory Behavior in a Multimode Dicke Model. Physical Review Letters, 2020, 125, 070604.	2.9	14
1397	Coherent rotations of qubits within a surface ion-trap quantum computer. Physical Review A, 2020, 102, .	1.0	17
1398	Mass-selective removal of ions from Paul traps using parametric excitation. Applied Physics B: Lasers and Optics, 2020, 126, 176.	1.1	9
1399	Spontaneous transition rates near the focus of a parabolic mirror with identification of the vectorial modes involved. Scientific Reports, 2020, 10, 17383.	1.6	2
1401	Trapped-ion toolkit for studies of quantum harmonic oscillators under extreme conditions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190230.	1.6	4
1402	Identification of molecular quantum states using phase-sensitive forces. Nature Communications, 2020, 11, 4470.	5.8	12
1403	Experimental setup for studying an ultracold mixture of trapped Yb+–Li6. Physical Review A, 2020, 102, .	1.0	6
1404	Phase-space elementary information content of confined Dirac spinors. European Physical Journal Plus, 2020, 135, 1.	1.2	5

#	Article	IF	CITATIONS
1405	Weak-to-strong transition of quantum measurement in a trapped-ion system. Nature Physics, 2020, 16, 1206-1210.	6.5	41
1406	Direct Detection of Optical Forces of Magnetic Nature in Dielectric Nanoantennas. Nano Letters, 2020, 20, 7627-7634.	4.5	11
1407	An easy to construct sub-micron resolution imaging system. Scientific Reports, 2020, 10, 21796.	1.6	1
1408	How efficient is transport of quantum cargo through multiple highways?. Annals of Physics, 2020, 422, 168281.	1.0	5
1409	Experimental Realization of Nonadiabatic Holonomic Single-Qubit Quantum Gates with Optimal Control in a Trapped Ion. Physical Review Applied, 2020, 14, .	1.5	38
1410	Nonlinear parametric oscillator: A tool for probing quantum fluctuations. Physical Review E, 2020, 102, 052204.	0.8	0
1411	Superradiant Phase Transition in Electronic Systems and Emergent Topological Phases. Physical Review Letters, 2020, 125, 257604.	2.9	45
1412	Quantum coherence and speed limit in the mean-field Dicke model of superradiance. Physical Review A, 2020, 102, .	1.0	16
1413	Coupling spins to nanomechanical resonators: Toward quantum spin-mechanics. Applied Physics Letters, 2020, 117, .	1.5	21
1414	Heisenberg-Limited Spin Squeezing via Bosonic Parametric Driving. Physical Review Letters, 2020, 125, 203601.	2.9	18
1415	Optimal Control of Hydrogen Atom-Like Systems as Thermodynamic Engines in Finite Time. Entropy, 2020, 22, 1066.	1.1	10
1416	First-order and continuous quantum phase transitions in the anisotropic quantum Rabi-Stark model. Physical Review A, 2020, 101, .	1.0	13
1417	Quantum simulation of electron Coulomb interactions. Europhysics Letters, 2020, 130, 10001.	0.7	0
1418	Single-atom energy-conversion device with a quantum load. Npj Quantum Information, 2020, 6, .	2.8	47
1419	Dimensionality-enhanced quantum state transfer in long-range-interacting spin systems. Physical Review A, 2020, 101, .	1.0	11
1420	Dynamics of Quantum Correlations in a Qubit-Oscillator System Interacting via a Dissipative Bath. Open Systems and Information Dynamics, 2020, 27, 2050004.	0.5	5
1421	Quantum State Engineering by Shortcuts to Adiabaticity in Interacting Spin-Boson Systems. Physical Review Letters, 2020, 124, 180401.	2.9	14
1422	Long-Lived Interacting Phases of Matter Protected by Multiple Time-Translation Symmetries in Quasiperiodically Driven Systems. Physical Review X, 2020, 10, .	2.8	56

#	Article	IF	CITATIONS
1423	Time-dependent interaction between a two-level atom and bimodal electromagnetic field. Optical and Quantum Electronics, 2020, 52, 1.	1.5	2
1424	Engineering of microfabricated ion traps and integration of advanced on-chip features. Nature Reviews Physics, 2020, 2, 285-299.	11.9	43
1425	State-dependent motional squeezing of a trapped ion: Proposed method and applications. Physical Review A, 2020, 101, .	1.0	8
1426	Unconditional Accumulation of Nonclassicality in a Singleâ€Atom Mechanical Oscillator. Advanced Quantum Technologies, 2020, 3, 2000012.	1.8	5
1427	Heat-flow reversal in a trapped-ion simulator. Physical Review A, 2020, 101, .	1.0	2
1428	Disorder-dressed quantum evolution. Physical Review B, 2020, 101, .	1.1	7
1429	Design and Development of Single-Qubit Ion Trap on Glass and Si Substrates With RF Analysis and Performance Benchmarking. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2020, 10, 1221-1231.	1.4	6
1430	Scalable characterization of localizable entanglement in noisy topological quantum codes. New Journal of Physics, 2020, 22, 053038.	1.2	7
1431	Far Off-Resonance Laser Frequency Stabilization Technology. Applied Sciences (Switzerland), 2020, 10, 3255.	1.3	1
1432	Discrete Time Crystals. Annual Review of Condensed Matter Physics, 2020, 11, 467-499.	5.2	146
1432 1435	Discrete Time Crystals. Annual Review of Condensed Matter Physics, 2020, 11, 467-499. Spatial configurations and temperature profiles in nonequilibrium steady state of two-species trapped ion systems. Physical Review E, 2020, 101, 012129.	5.2 0.8	146 2
1432 1435 1436	Discrete Time Crystals. Annual Review of Condensed Matter Physics, 2020, 11, 467-499. Spatial configurations and temperature profiles in nonequilibrium steady state of two-species trapped ion systems. Physical Review E, 2020, 101, 012129. Quantum Computing with Rotation-Symmetric Bosonic Codes. Physical Review X, 2020, 10, .	5.2 0.8 2.8	146 2 84
1432 1435 1436 1437	Discrete Time Crystals. Annual Review of Condensed Matter Physics, 2020, 11, 467-499. Spatial configurations and temperature profiles in nonequilibrium steady state of two-species trapped ion systems. Physical Review E, 2020, 101, 012129. Quantum Computing with Rotation-Symmetric Bosonic Codes. Physical Review X, 2020, 10,. Spin-cooling of the motion of a trapped diamond. Nature, 2020, 580, 56-59.	5.2 0.8 2.8 13.7	146 2 84 66
1432 1435 1436 1437 1438	Discrete Time Crystals. Annual Review of Condensed Matter Physics, 2020, 11, 467-499. Spatial configurations and temperature profiles in nonequilibrium steady state of two-species trapped ion systems. Physical Review E, 2020, 101, 012129. Quantum Computing with Rotation-Symmetric Bosonic Codes. Physical Review X, 2020, 10, . Spin-cooling of the motion of a trapped diamond. Nature, 2020, 580, 56-59. Generation of arbitrary qubit states by adiabatic evolution split by a phase jump. Physical Review A, 2020, 101, .	 5.2 0.8 2.8 13.7 1.0 	146 2 84 66 10
1432 1435 1436 1437 1438 1439	Discrete Time Crystals. Annual Review of Condensed Matter Physics, 2020, 11, 467-499.Spatial configurations and temperature profiles in nonequilibrium steady state of two-species trapped ion systems. Physical Review E, 2020, 101, 012129.Quantum Computing with Rotation-Symmetric Bosonic Codes. Physical Review X, 2020, 10, .Spin-cooling of the motion of a trapped diamond. Nature, 2020, 580, 56-59.Generation of arbitrary qubit states by adiabatic evolution split by a phase jump. Physical Review A, 2020, 101, .Quantum computational chemistry. Reviews of Modern Physics, 2020, 92, .	 5.2 0.8 2.8 13.7 1.0 16.4 	146 2 84 66 10 726
1432 1435 1436 1437 1438 1439 1440	Discrete Time Crystals. Annual Review of Condensed Matter Physics, 2020, 11, 467-499. Spatial configurations and temperature profiles in nonequilibrium steady state of two-species trapped ion systems. Physical Review E, 2020, 101, 012129. Quantum Computing with Rotation-Symmetric Bosonic Codes. Physical Review X, 2020, 10, . Spin-cooling of the motion of a trapped diamond. Nature, 2020, 580, 56-59. Generation of arbitrary qubit states by adiabatic evolution split by a phase jump. Physical Review A, 2020, 101, . Quantum computational chemistry. Reviews of Modern Physics, 2020, 92, . Selective interactions in the quantum Rabi model. Physical Review A, 2020, 101, .	 5.2 0.8 2.8 13.7 1.0 16.4 1.0 	146 2 84 66 10 726 22
1432 1435 1436 1437 1438 1439 1440 1441	Discrete Time Crystals. Annual Review of Condensed Matter Physics, 2020, 11, 467-499. Spatial configurations and temperature profiles in nonequilibrium steady state of two-species trapped ion systems. Physical Review E, 2020, 101, 012129. Quantum Computing with Rotation-Symmetric Bosonic Codes. Physical Review X, 2020, 10, . Spin-cooling of the motion of a trapped diamond. Nature, 2020, 580, 56-59. Generation of arbitrary qubit states by adiabatic evolution split by a phase jump. Physical Review A, 2020, 101, . Quantum computational chemistry. Reviews of Modern Physics, 2020, 92, . Selective interactions in the quantum Rabi model. Physical Review A, 2020, 101, . Entangling Two Macroscopic Mechanical Resonators at High Temperature. Physical Review Applied, 2020, 13, .	 5.2 0.8 2.8 13.7 1.0 16.4 1.0 1.5 	146 2 84 66 10 726 22 31

#	Article	IF	CITATIONS
1443	Protocol for Implementing Quantum Nonparametric Learning with Trapped Ions. Physical Review Letters, 2020, 124, 010506.	2.9	12
1444	Micromotion-enhanced fast entangling gates for trapped-ion quantum computing. Physical Review A, 2020, 101, .	1.0	6
1445	Dynamical Invariants and Quantization of the One-Dimensional Time-Dependent, Damped, and Driven Harmonic Oscillator. Brazilian Journal of Physics, 2020, 50, 534-540.	0.7	1
1446	Application of the polaron picture in the two-qubit quantum Rabi model. Physical Review A, 2020, 101, .	1.0	8
1447	A Two-Dimensional Architecture for Fast Large-Scale Trapped-Ion Quantum Computing. Chinese Physics Letters, 2020, 37, 070302.	1.3	3
1448	Teleporting quantum information encoded in fermionic modes. Physical Review A, 2020, 101, .	1.0	11
1449	Quantum Speedup for Aeroscience and Engineering. AIAA Journal, 2020, 58, 3715-3727.	1.5	14
1450	Relativistic dynamics for a particle carrying a non-Abelian charge in a non-Abelian background electromagnetic field. Journal of Mathematical Physics, 2020, 61, 022302.	0.5	5
1451	Quantum Simulation of Nonâ€Perturbative Cavity QED with Trapped Ions. Advanced Quantum Technologies, 2020, 3, 1900125.	1.8	3
1452	Quantum information processing and quantum optics with circuit quantum electrodynamics. Nature Physics, 2020, 16, 247-256.	6.5	220
1453	From cavity to circuit quantum electrodynamics. Nature Physics, 2020, 16, 243-246.	6.5	55
1454	Characterisation of a charged particle levitated nano-oscillator. Journal Physics D: Applied Physics, 2020, 53, 175302.	1.3	21
1455	Effect of ion-trap parameters on energy distributions of ultra-cold atom–ion mixtures. New Journal of Physics, 2020, 22, 013047.	1.2	11
1456	Fast High-Fidelity Quantum Nondemolition Qubit Readout via a Nonperturbative Cross-Kerr Coupling. Physical Review X, 2020, 10, .	2.8	31
1457	Photon-added entangled Barut–Girardello coherent states: non-classicality and generation. European Physical Journal Plus, 2020, 135, 1.	1.2	6
1458	Trends in Quantum Nanophotonics. Advanced Quantum Technologies, 2020, 3, 1900126.	1.8	37
1459	Deterministic generation of hybrid high- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:mi>N</mml:mi> NOON states with Rydberg atoms trapped in microwave cavities. Physical Review A, 2020, 101, .</mml:math 	1.0	7
1460	Real-time simulation of flux qubits used for quantum annealing. Physical Review A, 2020, 101, .	1.0	5

	CITATION	Report	
#	Article	IF	Citations
1461	Quantum collapse-revival effect in a supersymmetric Jaynes–Cummings model and its possible application in supersymmetric qubits. Physica Scripta, 2020, 95, 055104.	1.2	4
1462	Shuttling-based trapped-ion quantum information processing. AVS Quantum Science, 2020, 2, .	1.8	61
1463	A Quantum Heat Exchanger for Nanotechnology. Entropy, 2020, 22, 379.	1.1	0
1464	Enhancement in the performance of a quantum battery by ordered and disordered interactions. Physical Review A, 2020, 101, .	1.0	50
1465	Spin mechanics with levitating ferromagnetic particles. Physical Review B, 2020, 101, .	1.1	24
1466	Trapped Ion Architecture for Multiâ€Dimensional Quantum Simulations. Advanced Quantum Technologies, 2020, 3, 1900137.	1.8	8
1467	Ground-state cooling of a single atom inside a high-bandwidth cavity. Physical Review A, 2020, 101, .	1.0	5
1468	Hybrid Quantum Computing with Conditional Beam Splitter Gate in Trapped Ion System. Physical Review Letters, 2020, 124, 170502.	2.9	26
1469	Supersymmetric gauge potentials in multiphoton transition of atoms and squeezed-vacuum-state driven supersymmetric "isospin―evolution. European Physical Journal D, 2020, 74, 1.	0.6	1
1470	Classical and Nonclassical Time Dilation for Quantum Clocks. Physical Review Letters, 2020, 124, 160602.	2.9	12
1471	Extended Dirac oscillator in (2 + 1)-dimensional space-time. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126484.	0.9	5
1472	Cooperative emission spectra as an efficient key probe of qubits pair entanglement along with field state tomography: an effective response to nonlinearity and classical drive power. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 145001.	0.6	2
1473	Probe of topological invariants using quantum walks of a trapped ion in coherent state space. Chinese Physics B, 2020, 29, 070501.	0.7	3
1474	Instability zones in the dynamics of a quantum mechanical quasiperiodic parametric oscillator. Communications in Nonlinear Science and Numerical Simulation, 2021, 93, 105537.	1.7	1
1475	Trapping Electrons in a Room-Temperature Microwave Paul Trap. Physical Review X, 2021, 11, .	2.8	12
1476	Stability analysis of an ensemble of simple harmonic oscillators. International Journal of Modern Physics B, 2021, 35, 2150034.	1.0	1
1477	RF Performance Benchmarking of TSV Integrated Surface Electrode Ion Trap for Quantum Computing. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2021, 11, 1856-1863.	1.4	5
1478	Optical and electrical feedback cooling of a silica nanoparticle levitated in a Paul trap. Physical Review Research, 2021, 3, .	1.3	32

#	Article	IF	CITATIONS
1479	A Feedback Control Method to Maintain the Amplitude of the RF Signal Applied to Ion Traps. Applied Sciences (Switzerland), 2021, 11, 837.	1.3	0
1480	Continuously Parametrized Quantum Simulation of Molecular Electron-Transfer Reactions. PRX Quantum, 2021, 2, .	3.5	5
1481	Generation of <i>N</i> â€particle <i>W</i> State with Trapped Λâ€Type lons by Transitionless Quantum Driving. Annalen Der Physik, 2021, 533, 2000526.	0.9	7
1482	Hybrid quantum-classical approach to enhanced quantum metrology. Scientific Reports, 2021, 11, 672.	1.6	11
1483	Time-Rescaling of Dirac Dynamics: Shortcuts to Adiabaticity in Ion Traps and Weyl Semimetals. Entropy, 2021, 23, 81.	1.1	10
1484	Large flux-mediated coupling in hybrid electromechanical system with a transmon qubit. Communications Physics, 2021, 4, .	2.0	16
1485	Microwaves in Quantum Computing. IEEE Journal of Microwaves, 2021, 1, 403-427.	4.9	59
1486	Atomic Qubits. Graduate Texts in Physics, 2021, , 221-251.	0.1	0
1487	Quantum photonics based on metasurfaces. Opto-Electronic Advances, 2021, 4, 200092-200092.	6.4	50
1488	Engineering the Quantum Scientific Computing Open User Testbed. IEEE Transactions on Quantum Engineering, 2021, 2, 1-32.	2.9	19
1489	Probing the spectrum of the Jaynes-Cummings-Rabi model by its isomorphism to an atom inside a parametric amplifier cavity. Physical Review A, 2021, 103, .	1.0	12
1490	A New Measurement Method for High Voltages Applied to an Ion Trap Generated by an RF Resonator. Sensors, 2021, 21, 1143.	2.1	2
1491	Research on the ions' axial temperature of a sympathetically-cooled ¹¹³ Cd ⁺ ion crystal*. Chinese Physics B, 2021, 30, 113701.	0.7	4
1492	Selected topics of quantum computing for nuclear physics*. Chinese Physics B, 2021, 30, 020306.	0.7	10
1493	High-fidelity entangling gates in a three-dimensional ion crystal under micromotion. Physical Review A, 2021, 103, .	1.0	7
1494	Observation of a quantum phase transition in the quantum Rabi model with a single trapped ion. Nature Communications, 2021, 12, 1126.	5.8	85
1495	Random Sequence Generation using Superconducting Qubits. , 2021, , .		6
1496	Fast universal two-qubit gate for neutral fermionic atoms in optical tweezers. Physical Review Research, 2021, 3, .	1.3	8

#	Article	IF	CITATIONS
1497	Influence of kinetic energy on the metrology of Rabi frequency. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 115302.	0.7	0
1498	Fast cooling of trapped ion in strong sideband coupling regime. New Journal of Physics, 2021, 23, 023018.	1.2	11
1499	Density-matrix formalism for PT -symmetric non-Hermitian Hamiltonians with the Lindblad equation. Physical Review A, 2021, 103, .	1.0	11
1500	Quantum thermodynamic properties of a vector field coupled to a moving environment. European Physical Journal Plus, 2021, 136, 1.	1.2	2
1501	Speeding up quantum perceptron via shortcuts to adiabaticity. Scientific Reports, 2021, 11, 5783.	1.6	14
1502	Finite-time performance of a single-ion quantum Otto engine. Physical Review E, 2021, 103, 032144.	0.8	13
1503	Finite-temperature spectrum at the symmetry-breaking linear to zigzag transition. Physical Review B, 2021, 103, .	1.1	6
1504	Phase-Adaptive Dynamical Decoupling Methods for Robust Spin-Spin Dynamics in Trapped Ions. Physical Review Applied, 2021, 15, .	1.5	3
1505	Nonadiabatic Topological Energy Pumps with Quasiperiodic Driving. Physical Review Letters, 2021, 126, 106805.	2.9	19
1506	Quantum control with a multi-dimensional Gaussian quantum invariant. Quantum - the Open Journal for Quantum Science, 0, 5, 409.	0.0	6
1507	MgO surface lattice phonons observation during interstellar ice transition. Scientific Reports, 2021, 11, 6149.	1.6	1
1508	Squeezed Coherent States in Double Optical Resonance. Photonics, 2021, 8, 72.	0.9	1
1509	Dynamics of field nonclassicality in the Jaynes–Cummings model. Quantum Information Processing, 2021, 20, 1.	1.0	6
1510	Programmable quantum simulations of spin systems with trapped ions. Reviews of Modern Physics, 2021, 93, .	16.4	316
1511	Coupling Modifies the Quantum Fluctuations of Entangled Oscillators. Brazilian Journal of Physics, 2021, 51, 559-565.	0.7	0
1512	Quantum Zeno effect in self-sustaining systems: Suppressing phase diffusion via repeated measurements. Physical Review A, 2021, 103, .	1.0	7
1513	Entanglement Transition in a Monitored Free-Fermion Chain: From Extended Criticality to Area Law. Physical Review Letters, 2021, 126, 170602.	2.9	132
1514	Quantum guidelines for solid-state spin defects. Nature Reviews Materials, 2021, 6, 906-925.	23.3	185

		CITATION REPORT		
#	Article		IF	CITATIONS
1515	Materials challenges and opportunities for quantum computing hardware. Science, 2021,	372, .	6.0	196
1516	Single ion thermal wave packet analyzed via time-of-flight detection. New Journal of Physi	cs, 0, , .	1.2	3
1517	Strong-coupling quantum logic of trapped ions. Physical Review A, 2021, 103, .		1.0	5
1518	Analytic approach to dynamics of the resonant and off-resonant Jaynes-Cummings systen losses. Physical Review A, 2021, 103, .	is with cavity	1.0	6
1519	Quantum computation and simulation with vibrational modes of trapped ions. Chinese Pl 30, 060311.	1ysics B, 2021,	0.7	14
1520	Spin dynamics under the influence of elliptically rotating fields: Extracting the field topolo time-averaged quantities. Physical Review E, 2021, 103, 052139.	gy from	0.8	2
1521	Shortcuts to Squeezed Thermal States. Quantum - the Open Journal for Quantum Science	e, 0, 5, 449. id="d1e22"	0.0	8
1522	altimg="si3.svg"> <mml:mi>q</mml:mi> -deformed Dirac oscillator in <mml:r xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e27" altimg="si4.svg"><mml:mrow><mml:mo>(</mml:mo><mml:mn>2</mml:mn><mml:mo)< td=""><td>hath Ij ETQq1 1 0.784314 rgl</td><td>37¹/Overlo</td><td>ck 10 Tf 50</td></mml:mo)<></mml:mrow></mml:r 	hath Ij ETQq1 1 0.784314 rgl	37 ¹ /Overlo	ck 10 Tf 50
1523	Motional heating of spatially extended ion crystals. Quantum Science and Technology, 20	021, 6, 034003.	2.6	9
1524	Motional quantum metrology in a Penning trap. Europhysics Letters, 2021, 134, 38001.		0.7	5
1525	Improving efficiency of sympathetic cooling in atom-ion and atom-atom confined collision Review A, 2021, 103, .	ıs. Physical	1.0	7
1526	Self-Induced Glassy Phase in Multimodal Cavity Quantum Electrodynamics. Physical Revie 2021, 126, 183601.	w Letters,	2.9	4
1527	Efficient method for the calculation of the optical force of a single nanoparticle based on quasinormal mode expansion. Optics Letters, 2021, 46, 2658.	the	1.7	3
1528	Robust single-qubit gates by composite pulses in three-level systems. Physical Review A, 2	.021, 103, .	1.0	20
1529	Interaction induced non-reciprocal three-level quantum transport*. Chinese Physics B, 20. 060314.	21, 30,	0.7	1
1530	Compact Ion-Trap Quantum Computing Demonstrator. PRX Quantum, 2021, 2, .		3.5	159
1531	Superposition of two-mode squeezed states for quantum information processing and qua sensing. Physical Review A, 2021, 103, .	intum	1.0	16
1532	Enhanced force sensitivity and entanglement in periodically driven optomechanics. Physic 2021, 103, .	al Review A,	1.0	17

#	Article	IF	CITATIONS
1533	Kapitza-Dirac Blockade: A Universal Tool for the Deterministic Preparation of Non-Gaussian Oscillator States. Physical Review Letters, 2021, 126, 253601.	2.9	5
1534	Learning from Physics Experiments with Quantum Computers: Applications in Muon Spectroscopy. PRX Quantum, 2021, 2, .	3.5	4
1535	Quantum Harmonic Oscillator Spectrum Analyzers. Physical Review Letters, 2021, 126, 250507.	2.9	8
1536	Maximum violation of monogamy of entanglement for indistinguishable particles by measures that are monogamous for distinguishable particles. Physical Review A, 2021, 104, .	1.0	2
1537	Continuous-Variable Assisted Thermal Quantum Simulation. Physical Review Letters, 2021, 127, 020502.	2.9	9
1538	Single-Atom Verification of the Noise-Resilient and Fast Characteristics of Universal Nonadiabatic Noncyclic Geometric Quantum Gates. Physical Review Letters, 2021, 127, 030502.	2.9	17
1539	Double degeneracy associated with hidden symmetries in the asymmetric two-photon Rabi model. Physical Review Research, 2021, 3, .	1.3	7
1540	An ion trap apparatus with high optical access in multiple directions. Review of Scientific Instruments, 2021, 92, 073201.	0.6	8
1541	Quantum logic and entanglement by neutral Rydberg atoms: methods and fidelity. Quantum Science and Technology, 2022, 7, 023002.	2.6	30
1542	Design, fabrication and characterization of a micro-fabricated stacked-wafer segmented ion trap with two X-junctions. Quantum Science and Technology, 2021, 6, 044001.	2.6	12
1543	Quantum gravitational decoherence from fluctuating minimal length and deformation parameter at the Planck scale. Nature Communications, 2021, 12, 4449.	5.8	55
1544	Experimental Study of the Optical Qubit on the 435-nm Quadrupole Transition in the 171Yb+ Ion. JETP Letters, 2021, 114, 59-64.	0.4	13
1545	Motion analysis of a trapped ion chain by single photon self-interference. Applied Physics Letters, 2021, 119, 024003.	1.5	2
1546	Steady-state phonon occupation of electromagnetically-induced-transparency cooling: Higher-order calculations. Physical Review A, 2021, 104, .	1.0	4
1547	An effective pumping method for increasing atomic utilization in a compact cold atom clock*. Chinese Physics B, 2021, 30, 083202.	0.7	1
1548	Exact Bloch States of a Spin-orbit Coupled Bose-Einstein Condensate in an Optical Lattice. International Journal of Theoretical Physics, 2021, 60, 3161-3176.	0.5	0
1549	Atomic population inversion in a two-level atom for shaped and chirped laser pulses: Exact solutions of Bloch equations with dephasing. Results in Physics, 2021, 26, 104419.	2.0	2
1550	Experimental study of decoherence of the two-mode squeezed vacuum state via second harmonic generation. Physical Review Research, 2021, 3, .	1.3	4

# 1551	ARTICLE Photon and photon-added intelligent states of coupled parametric oscillators. Europhysics Letters, 0,	IF 0.7	Citations 0
1552	Investigating the quench dynamics of the bound states in a spin-orbital-coupling system using a trapped ion. Physical Review A, 2021, 104, .	1.0	1
1553	Local measures of dynamical quantum phase transitions. Physical Review B, 2021, 104, .	1.1	18
1554	Performance and limits of feedback cooling methods for levitated oscillators: A direct comparison. Physical Review A, 2021, 104, .	1.0	13
1555	Electric-field noise in a high-temperature superconducting surface ion trap. Physical Review B, 2021, 104, .	1.1	5
1556	Measuring Ion Oscillations at the Quantum Level with Fluorescence Light. Physical Review Letters, 2021, 127, 063603.	2.9	6
1557	Role of dissipation in the stability of a parametrically driven quantum harmonic oscillator. Journal of the Korean Physical Society, 2021, 79, 600-605.	0.3	2
1558	Orbital and electronic entanglement in quantum teleportation schemes. Physical Review Research, 2021, 3, .	1.3	5
1559	Observation of second- and higher-order electric quadrupole interactions with an atomic ion. Physical Review Research, 2021, 3, .	1.3	2
1560	Engineering generalized Gibbs ensembles with trapped ions. Physical Review Research, 2021, 3, .	1.3	7
1561	An ultralow-noise superconducting radio-frequency ion trap for frequency metrology with highly charged ions. Review of Scientific Instruments, 2021, 92, 083203.	0.6	6
1562	Quantum control of bosonic modes with superconducting circuits. Science Bulletin, 2021, 66, 1789-1805.	4.3	45
1563	Transparent qubit manipulations with spin-orbit coupled two-electron nanowire quantum dot. Scientific Reports, 2021, 11, 18839.	1.6	2
1564	Creating atom-nanoparticle quantum superpositions. Physical Review Research, 2021, 3, .	1.3	4
1565	Quantum Otto engines at relativistic energies. New Journal of Physics, 2021, 23, 105001.	1.2	17
1566	Optical Superresolution Sensing of a Trapped Ion's Wave Packet Size. Physical Review Letters, 2021, 127, 143602.	2.9	13
1567	Locking Multi-Laser Frequencies to a Precision Wavelength Meter: Application to Cold Atoms. Sensors, 2021, 21, 6255.	2.1	5
1568	Parameter-dependent unitary transformation approach for quantum Rabi model. New Journal of Physics, 2021, 23, 093014.	1.2	1

.

#	Article	IF	CITATIONS
1569	Quantum Simulating the Electron Transport in Quantum Cascade Laser Structures. Advanced Quantum Technologies, 2021, 4, 2100044.	1.8	4
1570	Experimental verification of the inertial theorem control protocols. New Journal of Physics, 0, , .	1.2	1
1571	Signatures of Quantum Phase Transitions after Quenches in Quantum Chaotic One-Dimensional Systems. Physical Review X, 2021, 11, .	2.8	13
1572	Ferromagnetic Heisenberg spin chain in a resonator. Chinese Physics B, 2021, 30, 090506.	0.7	0
1573	Irreversible entropy production: From classical to quantum. Reviews of Modern Physics, 2021, 93, .	16.4	157
1574	High-fidelity laser-free universal control of trapped ion qubits. Nature, 2021, 597, 209-213.	13.7	85
1575	Experimental Realization of Multi-ion Sympathetic Cooling on a Trapped Ion Crystal. Physical Review Letters, 2021, 127, 143201.	2.9	5
1576	Electric trapping and circuit cooling of charged nanorotors. New Journal of Physics, 2021, 23, 093001.	1.2	6
1577	100,000-spin coherent Ising machine. Science Advances, 2021, 7, eabh0952.	4.7	101
1578	Negativity-mutual information conversion and coherence in two-coupled harmonic oscillators. Physica A: Statistical Mechanics and Its Applications, 2021, 579, 125937.	1.2	5
1579	Microscopic quantum generalization of classical Liénard oscillators. Physical Review E, 2021, 103, 012118.	0.8	0
1580	Heat rectification with a minimal model of two harmonic oscillators. Physical Review E, 2021, 103, 012134.	0.8	10
1581	Double-Electromagnetically-Induced-Transparency Ground-State Cooling of Stationary Two-Dimensional Ion Crystals. Physical Review Letters, 2021, 126, 023604.	2.9	29
1582	Dominant Fifth-Order Correlations in Doped Quantum Antiferromagnets. Physical Review Letters, 2021, 126, 026401.	2.9	11
1584	Tunable transverse spin–motion coupling for quantum information processing. Quantum Science and Technology, 2021, 6, 024003.	2.6	6
1585	Charged particle guiding and beam splitting with auto-ponderomotive potentials on a chip. Nature Communications, 2021, 12, 390.	5.8	9
1586	Quantum Zeno effect and quantum nondemolition spin measurement in a quantum dot–micropillar cavity in the strong coupling regime. Physical Review B, 2021, 103, .	1.1	7
1587	Quantum Computing with Trapped Ions. , 2012, , 2406-2436.		1

#	Article	IF	CITATIONS
1588	An Introduction to Trapped Ions, Scalability and Quantum Metrology. , 2014, , 211-245.		1
1589	Single Photon Absorption by a Single Atom: From Heralded Absorption to Polarization State Mapping. Nano-optics and Nanophotonics, 2015, , 125-141.	0.2	1
1590	Quantum Computing and Its Potential for Turbulence Simulations. Communications in Computer and Information Science, 2015, , 124-132.	0.4	2
1595	From megahertz to terahertz qubits encoded in molecular ions: theoretical analysis of dipole-forbidden spectroscopic transitions in N ₂ ⁺ . Physical Chemistry Chemical Physics, 2020, 22, 23083-23098.	1.3	11
1596	Vacuum characterization of a compact room-temperature trapped ion system. Applied Physics Letters, 2020, 117, .	1.5	6
1597	A single-atom heat engine. Physics Today, 2020, 73, 66-67.	0.3	3
1598	Initiating revolutions for optical manipulation: the origins and applications of rotational dynamics of trapped particles. Advances in Physics: X, 2021, 6, 1838322.	1.5	15
1599	Semiclassical dynamics for an ion confined within a nonlinear electromagnetic trap. Physica Scripta, 2011, T143, 014018.	1.2	5
1600	The new SI and the fundamental constants of nature. European Journal of Physics, 2020, 41, 063003.	0.3	7
1601	Single-ion addressing via trap potential modulation in global optical fields. New Journal of Physics, 2020, 22, 053024.	1.2	4
1602	Ultrafast critical ground state preparation via bang–bang protocols. New Journal of Physics, 2020, 22, 093050.	1.2	6
1603	Polarization-gradient cooling of 1D and 2D ion Coulomb crystals. New Journal of Physics, 2020, 22, 103013.	1.2	29
1604	Single-site-resolved imaging of ultracold atoms in a triangular optical lattice. New Journal of Physics, 2020, 22, 123028.	1.2	16
1605	Transparently manipulating spin–orbit qubit via exact degenerate ground states*. Chinese Physics B, 2020, 29, 083203.	0.7	4
1606	Hyper-hybrid entanglement, indistinguishability, and two-particle entanglement swapping. Physical Review A, 2020, 102, .	1.0	6
1607	Controlled melting of a Wigner ion crystal with atomic resolution. Physical Review A, 2020, 102, .	1.0	4
1608	Quantum criticality of the Rabi-Stark model at finite frequency ratios. Physical Review A, 2020, 102, .	1.0	9
1609	Single-shot energy measurement of a single atom and the direct reconstruction of its energy distribution. Physical Review A, 2017, 96, .	1.0	10

#	Article	IF	CITATIONS
1610	Preparation of Long-Lived, Non-Autoionizing Circular Rydberg States of Strontium. Physical Review Letters, 2020, 125, 263001.	2.9	14
1611	Quantum motional state tomography with nonquadratic potentials and neural networks. Physical Review Research, 2019, 1, .	1.3	16
1612	Dynamics of strongly coupled disordered dissipative spin-boson systems. Physical Review Research, 2020, 2, .	1.3	5
1613	Kinks and nanofriction: Structural phases in few-atom chains. Physical Review Research, 2020, 2, .	1.3	9
1614	Superadiabatic thermalization of a quantum oscillator by engineered dephasing. Physical Review Research, 2020, 2, .	1.3	17
1615	Controlling the nature of a charged impurity in a bath of Feshbach dimers. Physical Review Research, 2020, 2, .	1.3	17
1616	Quantum simulation of extended polaron models using compound atom-ion systems. Physical Review Research, 2020, 2, .	1.3	9
1617	Oscillating bound states for a giant atom. Physical Review Research, 2020, 2, .	1.3	83
1618	Scalable and Parallel Tweezer Gates for Quantum Computing with Long Ion Strings. PRX Quantum, 2020, 1, .	3.5	30
1619	Towards fast and scalable trapped-ion quantum logic with integrated photonics. , 2019, , .		9
1620	Optimization of the Normal Mode Spectrum of Linear Ion Crystals in Paul Traps for EIT Cooling Using an Optical Lattice. JETP Letters, 2020, 112, 585-590.	0.4	7
1622	Quantum simulations of light-matter interactions in arbitrary coupling regimes. Europhysics Letters, 2020, 132, 20002.	0.7	2
1623	Dynamics of a quantum oscillator coupled with a three-level Λ-type emitter. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 2473.	0.9	3
1624	Simulation and realization of a second-order quantum-interference-based quantum clock synchronization at the femtosecond level. Optics Letters, 2019, 44, 614.	1.7	17
1626	Emergence of PT-symmetry breaking in open quantum systems. SciPost Physics, 2020, 9, .	1.5	35
1627	Coherent fluctuation relations: from the abstract to the concrete. Quantum - the Open Journal for Quantum Science, 0, 3, 124.	0.0	24
1628	Electrode Configurations for fast separation of trapped ions. Quantum Information and Computation, 2006, 6, 289-325.	0.1	30
1631	Exact quantum motion of a single trapped ion interacting with standing laser pulses in Lamb-Dicke regime. Wuli Xuebao/Acta Physica Sinica, 2010, 59, 2406.	0.2	2

#	Article	IF	CITATIONS
1632	Development on quantum metrology with quantum Fisher information. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 040601.	0.2	7
1633	Exact Solution of a Non-Hermitian Generalized Rabi Model. Chinese Physics Letters, 2021, 38, 080202.	1.3	3
1634	Fast laser cooling using optimal quantum control. Physical Review A, 2021, 104, .	1.0	3
1635	Antibunched <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>N</mml:mi> -photon bundles emitted by a Josephson photonic device. Physical Review Research, 2021, 3, .</mml:math 	1.3	14
1636	Optomechanical interface between telecom photons and spin quantum memory. Nature Physics, 2021, 17, 1420-1425.	6.5	35
1637	Optimized pulsed sideband cooling and enhanced thermometry of trapped ions. Physical Review A, 2021, 104, .	1.0	6
1638	Enhanced Parameter Estimation with Periodically Driven Quantum Probe. Entropy, 2021, 23, 1333.	1.1	1
1639	Phonon-Laser Ultrasensitive Force Sensor. Physical Review Applied, 2021, 16, .	1.5	13
1640	The population transfer and superflow associated with the spatiotemporal Bloch states for a high-frequency driven spin–orbit coupled Bose–Einstein condensate. Results in Physics, 2021, 31, 104926.	2.0	3
1641	Fermi's golden rule for heating in strongly driven Floquet systems. Physical Review B, 2021, 104, .	1.1	13
1644	Laser-Cooled Ions and Their Applications. Journal of Plasma and Fusion Research, 2005, 81, 755-763.	0.4	1
1646	Cooling and Trapping. , 2006, , 1091-1106.		1
1647	Monitoring the Decoherence of Mesoscopic Quantum Superpositions in a Cavity. , 2006, , 33-83.		0
1648	Quantum Information. , 2006, , 1215-1231.		0
1649	Perturbative Treatment of the Evolution Operator Associated with Raman Couplings. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 2006, , .	0.5	0
1650	Quantum Stochastic Heating of a Trapped Ion through Resonance Fluorescence. , 2007, , .		0
1651	Quantum Stochastic Heating of a Trapped Ion. , 2007, , .		0
1652	Cooling of an Atom in a Cavity to the Quantum Ground State of Axial Motion. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
1653	Quantum Interface between Single Photons and Ions. The Review of Laser Engineering, 2008, 36, 493-498.	0.0	0
1655	Quantum computation with donor-based qubits in silicon photonic cavities. , 2008, , .		0
1656	Generation of resolved phonon sidebands in a self-assembled quantum dot. , 2009, , .		0
1657	Radium ion: a candidate for measuring atomic parity violation. , 2010, , 261-267.		0
1658	Realization of Robust Single-Qubit Operations with Purely Geometric Phase Factors. , 2011, , .		0
1659	Hamiltonian spectrum for three coupled harmonic oscillators in non-commutative space. Wuli Xuebao/Acta Physica Sinica, 2011, 60, 040303.	0.2	2
1660	No-Collapse Physics and Consciousness. , 2012, , 55-78.		1
1661	Realization of Fast Rabi Oscillations in Radio Frequency Magnetic Resonance of Ground Zeeman States of ⁴⁰ Ca ⁺ . Japanese Journal of Applied Physics, 2011, 50, 122801.	0.8	0
1662	Cold highly charged ions in a cryogenic Paul trap. , 2013, , 189-194.		0
1663	Towards Strong Coupling between a Single Ion and a Fiber Cavity. The Review of Laser Engineering, 2013, 41, 507.	0.0	0
1664	PrincÃpio de ação quântica de Schwinger. Revista Brasileira De Ensino De Fisica, 2013, 35, 1-16.	0.2	3
1666	Quantum Information Processing with Trapped Ions. Springer Tracts in Modern Physics, 2014, , 253-291.	0.1	2
1668	Measurement and Control of the Internal Atomic State. Springer Theses, 2016, , 29-42.	0.0	0
1669	Arrays of optomechanical systems. , 2015, , 296-317.		0
1670	Controlling the Position and Motion of a Single Atom in an Optical Cavity. Springer Theses, 2016, , 11-28.	0.0	0
1671	Single-photon optomechanics. , 2015, , 212-249.		0
1672	Coherent Optomechanical Coupling between a Surface Acoustic Wave and a Nitrogen Vacancy Center in Diamond. , 2016, , .		0

#	Article	IF	CITATIONS
1674	Electron Spin Resonance From NV Centers in Diamonds Levitating in an Ion Trap. , 2017, , .		0
1675	The Local Detection Method: Dynamical Detection of Quantum Discord with Local Operations. Quantum Science and Technology, 2017, , 275-307.	1.5	1
1676	Nonequilibrium Quantum Dynamics of Many-Body Systems. Understanding Complex Systems, 2018, , 231-260.	0.3	3
1679	Quantum Hardware I: Ion Trap Qubits. , 2018, , 149-182.		Ο
1680	Probing Quantum Fluctuations of Work with a Trapped Ion. Fundamental Theories of Physics, 2018, , 917-938.	0.1	0
1681	Physical Implementations of Quantum Absorption Refrigerators. Fundamental Theories of Physics, 2018, , 149-174.	0.1	2
1682	Resonating valence bonds and spinon pairing in the Dicke model. SciPost Physics, 2018, 4, .	1.5	0
1683	Rydberg atoms and quantum information. , 2019, , .		Ο
1685	Recent Strategies in Quantum Metrology: The Quest for the Ultimate Precision Limits. , 2019, , .		0
1687	Trapping lons with Light Fields. SpringerBriefs in Physics, 2019, , 9-20.	0.2	Ο
1688	The Ions. Springer Theses, 2020, , 9-23.	0.0	0
1689	Mean field theory for the quantum Rabi model, inconsistency to the rotating wave approximation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126287.	0.9	0
1690	Optical Tweezers in Biotechnology. , 0, , .		0
1691	Experimental quantum simulation of superradiant phase transition beyond no-go theorem via antisqueezing. Nature Communications, 2021, 12, 6281.	5.8	23
1693	Coherence properties of highly-excited motional states of a trapped ion. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 015501.	0.6	4
1694	Cumulative loading of the ion trap by laser ablation of thorium target in buffer gas. Laser Physics Letters, 2021, 18, 015501.	0.6	1
1696	A critical overview on Quantum Computing. Journal of Quantum Computing, 2020, 2, 181-192.	0.3	5
1697	Research progress of 698nm narrow-linewidth lasers for Sr atom optical clocks at NTSC. , 2020, , .		0

#	Article	IF	CITATIONS
1698	Full Quantum Analysis of Complete Population Transfer Using Frequency Boost. International Journal of Optics and Photonics, 2020, 14, 91-98.	0.2	1
1699	Conical Intersections in Other Physical Systems. Lecture Notes in Physics, 2020, , 127-147.	0.3	0
1700	An Introduction to Special Functions with Some Applications to Quantum Mechanics. Tutorials, Schools, and Workshops in the Mathematical Sciences, 2020, , 517-628.	0.3	0
1701	Quantum Master Equation for the Time-Periodic Density Operator of a Single Qubit Coupled to a Harmonic Oscillator. Trends in Mathematics, 2020, , 271-281.	0.1	0
1703	Spontaneous decay of artificial atoms in a three-qubit system. European Physical Journal B, 2021, 94, 1.	0.6	2
1706	lon Traps. , 2008, , 347-363.		0
1708	Quantum Optics with Giant Atoms—the First Five Years. Mathematics for Industry, 2021, , 125-146.	0.4	16
1709	Analytical approximation of the second-harmonic conversion efficiency. Applied Optics, 2020, 59, 9010.	0.9	0
1710	Optical Sideband Cooling of a Radial Motional Mode of a Trapped 138Ba+ Ion. Journal of the Korean Physical Society, 2020, 77, 1143-1147.	0.3	2
1711	Optimization of Segmented Linear Paul Traps and Transport of Stored Particles. , 0, , 45-68.		1
1712	Dynamics of a trapped ion in a quantum gas: Effects of particle statistics. Physical Review A, 2021, 104, .	1.0	8
1713	THz trapped ion model and THz spectroscopy detection of potassium channels. Nano Research, 2022, 15, 3825-3833.	5.8	4
1714	Sequential phonon measurements of atomic motion. Quantum Science and Technology, 0, , .	2.6	1
1715	Universality class and exact phase boundary in the superradiant phase transition. Physical Review A, 2021, 104, .	1.0	4
1716	Entangling operations in nonlinear two-atom Tavis-Cummings models. Physical Review A, 2021, 104, .	1.0	1
1717	Composite pulses for high fidelity population transfer in three-level systems. New Journal of Physics, 2022, 24, 023014.	1.2	12
1718	Time-Dependent Dissipative Massive Scalar Field. International Journal of Optics and Photonics, 2021, 15, 49-54.	0.2	0
1719	Ion Qubit Control in a Passively Phase-Stable Optical Standing Wave. , 2021, , .		0

#	Article	IF	CITATIONS
1720	Phase-modulated Autler-Townes splitting in a giant-atom system within waveguide QED. Frontiers of Physics, 2022, 17, 1.	2.4	13
1721	Effects of quantum deformation on the Jaynes-Cummings and anti-Jaynes-Cummings models. Physical Review A, 2022, 105, .	1.0	3
1722	Simulation of Mixed Quantum Rabi Model and its Applications on Generation of Squeezed Cat State. International Journal of Theoretical Physics, 2022, 61, 1.	0.5	9
1723	Generation of an Enhanced Multiâ€Mode Optomechanicalâ€Like Quantum System and Its Application in Creating Hybrid Entangled States. Annalen Der Physik, 2022, 534, .	0.9	5
1724	Control System of Superconducting Quantum Computers. Journal of Superconductivity and Novel Magnetism, 2022, 35, 11-31.	0.8	9
1725	High-Stability Cryogenic System for Quantum Computing With Compact Packaged Ion Traps. IEEE Transactions on Quantum Engineering, 2022, 3, 1-11.	2.9	11
1726	Probing a Dissipative Phase Transition with a Trapped Ion through Reservoir Engineering. Chinese Physics Letters, 2022, 39, 020502.	1.3	2
1727	Machine classification for probe-based quantum thermometry. Physical Review A, 2022, 105, .	1.0	4
1728	Two-Photon Blockade with Second-Order Nonlinearity in Cavity Systems. International Journal of Theoretical Physics, 2022, 61, 1.	0.5	1
1729	Fast quantum search driven by environmental engineering. Communications in Theoretical Physics, 2022, 74, 045101.	1.1	3
1730	Super-resolved Imaging of a Single Cold Atom on a Nanosecond Timescale. Physical Review Letters, 2021, 127, 263603.	2.9	6
1731	Observation of Feshbach resonances between a single ion and ultracold atoms. Nature, 2021, 600, 429-433.	13.7	40
1732	Advances in the study of ion trap structures in Quantum computation and simulation. Wuli Xuebao/Acta Physica Sinica, 2022, .	0.2	1
1733	Topological-Graph Dependencies and Scaling Properties of a Heuristic Qubit-Assignment Algorithm. IEEE Transactions on Quantum Engineering, 2022, 3, 1-14.	2.9	5
1734	Universal patterns in multifrequency-driven dissipative systems. Europhysics Letters, 2022, 137, 12001.	0.7	1
1735	Resolving the gravitational redshift across a millimetre-scale atomic sample. Nature, 2022, 602, 420-424.	13.7	167
1736	Ultrastrong coupling of a qubit with a nonlinear optical resonator. Physical Review A, 2022, 105, .	1.0	0
1737	Enhancing entanglement and total correlation dynamics via local unitaries. Physical Review A, 2022, 105, .	1.0	0

		CITATION RE	PORT	
#	Article		IF	Citations
1738	Designing robust quantum refrigerators in disordered spin models. Physical Review A, 2	2022, 105, .	1.0	2
1739	Quantum parameter estimation of nonlinear coupling in a trilinear Hamiltonian with tr Physical Review A, 2022, 105, .	apped ions.	1.0	0
1740	Thermally induced entanglement of atomic oscillators. Optics Express, 2022, 30, 8814	ŀ.	1.7	3
1741	Analytical and experimental study of center-line miscalibrations in MÃ,lmer-SÃ,rensen g Review A, 2022, 105, .	ates. Physical	1.0	3
1742	Coherent control of a multi-qubit dark state in waveguide quantum electrodynamics. N 2022, 18, 538-543.	Vature Physics,	6.5	51
1743	Photon spin molasses for laser cooling molecular rotation. Journal of Molecular Spectro 2022, 385, 111596.	oscopy,	0.4	1
1744	Testing the upper bound on the speed of scrambling with an analogue of Hawking rad trapped ions. European Physical Journal C, 2022, 82, 1.	iation using	1.4	13
1745	Buffer gas cooling of ions in radio-frequency traps using ultracold atoms. New Journal 2022, 24, 035004.	of Physics,	1.2	5
1746	Control of Transverse Motion for Quantum Gates on Individually Addressed Atomic Qu Quantum, 2022, 3, .	ıbits. PRX	3.5	23
1747	Optical coherent manipulation of alkaline-earth circular Rydberg states. Nature Physics 502-505.	s, 2022, 18,	6.5	9
1748	Ultrafast dynamics of entanglement in Heisenberg antiferromagnets. Physical Review B	3, 2022, 105, .	1.1	2
1749	Scrambling and many-body localization in the XXZ chain. Physical Review B, 2022, 105	· · ·	1.1	10
1750	Analytical solution and hidden symmetry operators of asymmetric two-mode quantum Journal of Physics A: Mathematical and Theoretical, 2022, 55, 155303.	Rabi model.	0.7	2
1751	Observation of anomalous heat transport in a trapped ion chain. Physical Review A, 20	22, 105, .	1.0	3
1752	rf-induced heating dynamics of noncrystallized trapped ions. Physical Review A, 2022,	105,.	1.0	2
1753	Model-Free Quantum Control with Reinforcement Learning. Physical Review X, 2022, 1	.2, .	2.8	27
1754	Entanglement of two superconducting qubits induced by a thermal noise of a cavity w taking into account the atomic coherence. Physics of Wave Processes and Radio Syste	ith Kerr medium ems, 2022, 25, 7-15.	0.1	1
1755	Inverse iteration quantum eigensolvers assisted with a continuous variable. Quantum S Technology, 2022, 7, 025026.	Science and	2.6	3

#	Article	IF	CITATIONS
1756	Approximate solutions for the ion-laser interaction in the high intensity regime: matrix method perturbative analysis. Optical and Quantum Electronics, 2022, 54, 1.	1.5	0
1757	Observation of Chemical Reactions between a Trapped Ion and Ultracold Feshbach Dimers. Physical Review Letters, 2022, 128, 103401.	2.9	16
1758	Quantum kernels with Gaussian state encoding for machine learning. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 436, 128088.	0.9	0
1759	Superconducting Circuit Companionâ \in "an Introduction with Worked Examples. PRX Quantum, 2021, 2, .	3.5	38
1760	Phonon-mediated many-body quantum entanglement and logic gates in ion traps. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 1.	0.2	0
1761	The photon blockade effect of a complete Buck-Sukumar model. Wuli Xuebao/Acta Physica Sinica, 2022,	0.2	0
1762	Quantum control of molecules for fundamental physics. Physical Review A, 2022, 105, .	1.0	21
1763	General symmetry operators of the asymmetric quantum Rabi model. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 225306.	0.7	4
1764	Hierarchies of localizable entanglement due to spatial distribution of local noise. Physical Review Research, 2022, 4, .	1.3	4
1765	Mesoscopic quantum thermo-mechanics: A new frontier of experimental physics. AVS Quantum Science, 2022, 4, 020501.	1.8	3
1769	Partial thermalisation of a two-state system coupled to a finite quantum bath. SciPost Physics, 2022, 12, .	1.5	6
1770	Temperature estimation of a pair of trapped ions. Scientific Reports, 2022, 12, 6697.	1.6	2
1771	Resource-Efficient Dissipative Entanglement of Two Trapped-Ion Qubits. Physical Review Letters, 2022, 128, 080502.	2.9	13
1772	Quantum-limited thermometry of a Fermi gas with a charged spin particle. Physical Review Research, 2022, 4, .	1.3	7
1773	New designed helical resonator to improve measurement accuracy of magic radio frequency. Chinese Physics B, 2022, 31, 093201.	0.7	1
1774	Experimental Realization of the Rabi-Hubbard Model with Trapped Ions. Physical Review Letters, 2022, 128, 160504.	2.9	21
1775	Efficiently fueling a quantum engine with incompatible measurements. Physical Review E, 2022, 105, 044137.	0.8	18
1776	Raman imaging of atoms inside a high-bandwidth cavity. Physical Review A, 2022, 105, .	1.0	1

#	Article	IF	CITATIONS
1777	An introduction to the surface code. SciPost Physics Lecture Notes, 0, , .	0.0	3
1778	Quantum Computing by Coherent Cooling. Physical Review A, 2022, 105, .	1.0	2
1779	Critical quantum metrology with fully-connected models: from Heisenberg to Kibble–Zurek scaling. Quantum Science and Technology, 2022, 7, 035010.	2.6	17
1780	Harmonic oscillator kicked by spin measurements: A Floquet-like system without a classical analog. Physical Review A, 2022, 105, .	1.0	0
1781	Single electrons on solid neon as a solid-state qubit platform. Nature, 2022, 605, 46-50.	13.7	22
1782	Quantum Brain Networks: A Perspective. Electronics (Switzerland), 2022, 11, 1528.	1.8	2
1783	Quantum non-Gaussianity of light and atoms. Progress in Quantum Electronics, 2022, 83, 100395.	3.5	11
1784	Emerging qubit systems: Guest editorial. Applied Physics Letters, 2022, 120, 190401.	1.5	0
1785	Exact master equation for an open Jaynes–Cummings system. Annals of Physics, 2022, 441, 168890.	1.0	0
1786	A digital quantum simulation of the Agassi model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 829, 137133.	1.5	8
1787	Distinguishing phases via non-Markovian dynamics of entanglement in topological quantum codes under parallel magnetic field. Physical Review A, 2022, 105, .	1.0	2
1788	Industrially microfabricated ion trap with 1ÂeV trap depth. Quantum Science and Technology, 2022, 7, 035015.	2.6	11
1789	Analyzing the Rydberg-based optical-metastable-ground architecture for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Yb</mml:mi><mml:mprescr /><mml:none></mml:none><mml:mn>171</mml:mn></mml:mprescr </mml:mmultiscripts> nuclear spins. Physical Review A, 2022, 105, .</mml:math 	ripts 1.0	15
1790	One decade of quantum optimal control in the chopped random basis. Reports on Progress in Physics, 2022, 85, 076001.	8.1	31
1792	Ultracold ion-atom experiments: cooling, chemistry, and quantum effects. Advances in Atomic, Molecular and Optical Physics, 2022, , .	2.3	0
1793	Tensor lattice field theory for renormalization and quantum computing. Reviews of Modern Physics, 2022, 94, .	16.4	27
1794	Quasienergy operators and generalized squeezed states for systems of trapped ions. Annals of Physics, 2022, 442, 168926.	1.0	2
1795	Advances in the study of ion trap structures in quantum computation and simulation. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 133701.	0.2	0

#	ARTICLE	IF	CITATIONS
1796	The photon blockade effect of a complete Buck-Sukumar model. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 134203.	0.2	1
1797	Quantum Simulation of the Two-Dimensional Weyl Equation in a Magnetic Field. Physical Review Letters, 2022, 128, .	2.9	1
1798	Long-Range Ising Interactions Mediated by <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>î»</mml:mi><mml:msup><mml:mi>ï•</mml:mi><mml:mi><mml:msup Fields: Probing the Renormalization of Sound in Crystals of Trapped Ions. PRX Quantum, 2022, 3, .</mml:msup </mml:mi></mml:msup></mml:math 	.> < } ∰ml:m	ath>
1799	Unresolved sideband photon recoil spectroscopy of molecular ions. Physical Review A, 2022, 105, .	1.0	2
1800	Progress of quantum entanglement in a trapped-ion based quantum computer. Current Applied Physics, 2022, , .	1.1	3
1801	Breaking reciprocity by designed loss. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 1926.	0.9	2
1802	Observation of supersymmetry and its spontaneous breaking in a trapped ion quantum simulator. Nature Communications, 2022, 13, .	5.8	3
1803	Complete Physical Characterization of Quantum Nondemolition Measurements via Tomography. Physical Review Letters, 2022, 129, .	2.9	3
1804	Effective dynamics and quantum state engineering by periodic kicks. Chinese Physics B, 2023, 32, 044210.	0.7	1
1805	Experimental Bayesian Calibration of Trapped-Ion Entangling Operations. PRX Quantum, 2022, 3, .	3.5	5
1806	Molecular Vibrational Polaritons Towards Quantum Technologies. Advanced Quantum Technologies, 2022, 5, .	1.8	4
1807	Quantum Non-Gaussianity of Multiphonon States of a Single Atom. Physical Review Letters, 2022, 129, .	2.9	3
1808	Verification of Information Thermodynamics in a Trapped Ion System. Entropy, 2022, 24, 813.	1.1	2
1810	From observations to complexity of quantum states via unsupervised learning. Physical Review B, 2022, 106, .	1.1	4
1811	Reservoir-engineering shortcuts to adiabaticity. Physical Review Research, 2022, 4, .	1.3	3
1812	Probing Majorana modes via local spin dynamics. Physical Review B, 2022, 106, .	1.1	1
1813	Parallel Electromagnetically Induced Transparency near Ground-State Cooling of a Trapped-Ion Crystal. Physical Review Applied, 2022, 18, .	1.5	4
1814	High-resolution Spectroscopy and Single-photon Rydberg Excitation of Reconfigurable Ytterbium Atom Tweezer Arrays Utilizing a Metastable State. Journal of the Physical Society of Japan, 2022, 91, . 	0.7	13

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#	Article	IF	CITATIONS
1816	A new look at the quantum mechanics of the harmonic oscillator. Annalen Der Physik, 2007, 519, 439-528.	0.9	1
1817	Interaction of a Three-Level Atom (ĥ, V, Ξ) with a Two-Mode Field Beyond Rotating Wave Approximation: Intermixed Intensity-Dependent Coupling. International Journal of Optics and Photonics, 2021, 15, 151-166.	0.2	3
1818	Frequency stabilization of multiple wavelength lasers based on a broadband spectrum. Laser Physics Letters, 2022, 19, 095701.	0.6	2
1819	19 Quantum error correction. , 2022, , 241-256.		0
1820	Optimal charging of a superconducting quantum battery. Quantum Science and Technology, 2022, 7, 045018.	2.6	32
1822	QASMBench: A Low-Level Quantum Benchmark Suite for NISQ Evaluation and Simulation. ACM Transactions on Quantum Computing, 2023, 4, 1-26.	2.6	22
1824	Cavity-Enhanced Optical Lattices for Scaling Neutral Atom Quantum Technologies to Higher Qubit Numbers. PRX Quantum, 2022, 3, .	3.5	9
1825	Quantum state interrogation using a preshaped free electron wavefunction. Physical Review Research, 2022, 4, .	1.3	7
1826	A New Mechanism for Sympathetic Cooling of Atoms and lons in Atomic and Ion-Atomic Traps. Physics of Particles and Nuclei, 2022, 53, 795-799.	0.2	0
1827	Measurement of dc and ac Electric Fields inside an Atomic Vapor Cell with Wall-Integrated Electrodes. Physical Review Applied, 2022, 18, .	1.5	9
1828	<mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mi>N</mml:mi></mml:math> -Body Interactions between Trapped Ion Qubits via Spin-Dependent Squeezing. Physical Review Letters, 2022, 129, .	2.9	17
1829	Monitoring-induced entanglement entropy and sampling complexity. Physical Review Research, 2022, 4,	1.3	3
1830	Realizing coherently convertible dual-type qubits with the same ion species. Nature Physics, 2022, 18, 1058-1061.	6.5	19
1831	Picosecond ion-qubit manipulation and spin-phonon entanglement with resonant laser pulses. Physical Review A, 2022, 106, .	1.0	6
1832	Surface-Induced Decoherence and Heating of Charged Particles. PRX Quantum, 2022, 3, .	3.5	1
1833	Squeezing-enhanced parameter estimation with a hybrid spin-oscillator interferometer. Physical Review A, 2022, 106, .	1.0	2
1834	Noise-Tolerant Optomechanical Entanglement via Synthetic Magnetism. Physical Review Letters, 2022, 129, .	2.9	36
1835	Optical measurement of electron spins in quantum dots: quantum Zeno effects. Nanoscale, 2022, 14, 13284-13291.	2.8	1

#	Article	IF	CITATIONS
1836	Diamond Integrated Quantum Nanophotonics: Spins, Photons and Phonons. Journal of Lightwave Technology, 2022, 40, 7538-7571.	2.7	15
1837	Stable Turnkey Laser System for a Yb/Ba Trapped-Ion Quantum Computer. IEEE Transactions on Quantum Engineering, 2022, 3, 1-8.	2.9	3
1838	High-fidelity rf/microwave-based universal control of trapped ion qubits. , 2022, , .		1
1839	Sculpting bosonic states with arithmetic subtractions. New Journal of Physics, 2022, 24, 083023.	1.2	2
1840	NISQ computing: where are we and where do we go?. AAPPS Bulletin, 2022, 32, .	2.7	38
1841	Detection of DC electric forces with zeptonewton sensitivity by single-ion phonon laser. Science China: Physics, Mechanics and Astronomy, 2022, 65, .	2.0	3
1842	Generating tensor-network states via combination of phonons and qubits in a trapped-ion platform. Physical Review A, 2022, 106, .	1.0	1
1843	Glassy disorder-induced effects in noisy dynamics of Bose–Hubbard and Fermi–Hubbard systems. Journal of Physics B: Atomic, Molecular and Optical Physics, 2022, 55, 205502.	0.6	1
1844	Experimental Demonstration of Swift Analytical Universal Control Over Nearby Transitions. Physical Review Applied, 2022, 18, .	1.5	1
1845	Demonstration of a quantum advantage by a joint detection receiver for optical communication using quantum belief propagation on a trapped-ion device. Physical Review A, 2022, 106, .	1.0	2
1846	<i>Ab initio</i> quantum theory of mass defect and time dilation in trapped-ion optical clocks. Physical Review A, 2022, 106, .	1.0	4
1847	A frequency comb stabilized Ti:Sa laser as a self-reference for ion-trap experiments with a ⁴⁰ Ca ⁺ ion. Review of Scientific Instruments, 2022, 93, 093304.	0.6	0
1848	Observation of Non-Markovian Spin Dynamics in a Jaynes-Cummings-Hubbard Model Using a Trapped-Ion Quantum Simulator. Physical Review Letters, 2022, 129, .	2.9	8
1849	Number-resolved detection of dark ions in Coulomb crystals. Physical Review A, 2022, 106, .	1.0	1
1850	Manipulating the non-Hermitian skin effect via electric fields. Physical Review B, 2022, 106, .	1.1	7
1851	Symmetry operators of the asymmetric two-photon quantum Rabi model. Journal of Physics A: Mathematical and Theoretical, 0, , .	0.7	0
1852	Coherent control of a local phonon in trapped ions using dynamical decoupling. Physical Review A, 2022, 106, .	1.0	1
1853	Pauli blocking of stimulated emission in a degenerate Fermi gas. Nature Communications, 2022, 13, .	5.8	1

#	Article	IF	CITATIONS
1854	Generation of Schrödinger Cat States in a Hybrid Cavity Optomechanical System. Entropy, 2022, 24, 1554.	1.1	1
1855	Superior dark-state cooling via nonreciprocal couplings in trapped atoms. New Journal of Physics, 0, ,	1.2	5
1856	Para-Bose oscillator algebras of odd orders: x-representations and Wigner functions for coherent and cat states and their photon-added and photon-subtracted counterparts. European Physical Journal Plus, 2022, 137, .	1.2	0
1857	Effect of micromotion and local stress in quantum simulations with trapped ions in optical tweezers. Physical Review A, 2022, 106, .	1.0	1
1858	Numerical Simulation of the Performance of Single Qubit Gates for Trapped Ions. JETP Letters, 2022, 116, 580-585.	0.4	1
1859	Ion trap with gold-plated alumina: Substrate and surface characterization. AIP Advances, 2022, 12, 115006.	0.6	1
1860	Acoustic charge transport in organic semiconductor films. Journal Physics D: Applied Physics, 2023, 56, 015102.	1.3	2
1861	Correlations dynamics of two-spin XYZ Heisenberg model via negativity and skew information. International Journal of Quantum Information, 2022, 20, .	0.6	1
1862	Sympathetic electromagnetically-induced-transparency ground state cooling of a ⁴⁰ Ca ⁺ - ²⁷ Al ⁺ pair in a ²⁷ Al ⁺ clock. Chinese Physics B, 0, , .	0.7	0
1863	Applications of optical microcombs. Advances in Optics and Photonics, 2023, 15, 86.	12.1	37
1864	Amplifying quantum correlations with quench dynamics in a quantum spin chain: Steady-states versus ground-states. Physica A: Statistical Mechanics and Its Applications, 2022, 608, 128314.	1.2	1
1865	Quantum dense coding network using multimode squeezed states of light. Physical Review A, 2022, 106,	1.0	0
1866	The spin-one DKP oscillator in the plane with an external magnetic field. Physics Letters, Section A: General, Atomic and Solid State Physics, 2023, 457, 128538.	0.9	6
1867	Demonstration and operation of quantum harmonic oscillators in an AlGaAs-GaAs heterostructure. Frontiers of Physics, 2023, 18, .	2.4	0
1868	Thermal-noise-resistant optomechanical entanglement via general dark-mode control. Physical Review A, 2022, 106, .	1.0	8
1869	Non-Markovian disentanglement dynamics in double-giant-atom waveguide-QED systems. Physical Review A, 2022, 106, .	1.0	19
1870	Numerical investigation of a segmented-blade ion trap with biasing rods. Applied Physics B: Lasers and Optics, 2023, 129, .	1.1	0
1871	Observation of Spin-Tensor Induced Topological Phase Transitions of Triply Degenerate Points with a Trapped Ion. Physical Review Letters, 2022, 129, .	2.9	2

		CITATION [Report	
#	Article		IF	CITATIONS
1872	Controllable Multiregister Transport on a Photonic Chip. ACS Photonics, 2022, 9, 3841	-3847.	3.2	0
1873	Effects of autocorrelated disorder on the dynamics in the vicinity of the many-body loca transition. Physical Review B, 2022, 106, .	alization	1.1	3
1874	Coherent interaction of multistate quantum systems possessing the Wigner–Majora Morris–Shore dynamic symmetries with pulse trains. Journal of Physics B: Atomic, Mo Optical Physics, 2023, 56, 014001.	na and Necular and	0.6	1
1875	Quantum thermometry with a dissipative quantum Rabi system. European Physical Jour 137, .	rnal Plus, 2022,	1.2	2
1876	Coherent Transfer of Transverse Optical Momentum to the Motion of a Single Trapped Review Letters, 2022, 129, .	Ion. Physical	2.9	4
1877	Lindbladian-Induced Alignment in Quantum Measurements. Foundations of Physics, 20	23, 53, .	0.6	0
1878	<i>Colloquium</i> : Cavity-enhanced quantum network nodes. Reviews of Modern Phy	sics, 2022, 94, .	16.4	15
1880	Quantum Nonreciprocal Interactions via Dissipative Gauge Symmetry. PRX Quantum, 2	.023, 4, .	3.5	4
1881	Slow melting of a disordered quantum crystal. Physical Review B, 2023, 107, .		1.1	1
1882	Probing Phases of Quantum Matter with an Ion-Trap Tensor-Network Quantum Eigenso Review X, 2022, 12, .	blver. Physical	2.8	4
1883	Quantum simulation of weak-field light-matter interactions. Physical Review Research, 2	2023, 5, .	1.3	2
1884	Cooling and Trapping. Springer Handbooks, 2023, , 1141-1155.		0.3	0
1885	Micromotion-synchronized pulsed Doppler cooling of trapped ions. Physical Review A, 2	2023, 107, .	1.0	1
1886	Enhanced Tripartite Interactions in Spin-Magnon-Mechanical Hybrid Systems. Physical I 2023, 130, .	Review Letters,	2.9	12
1887	Trap-Assisted Complexes in Cold Atom-Ion Collisions. Physical Review Letters, 2023, 13	0, .	2.9	3
1888	Simultaneous ground-state cooling of two mechanical modes of a levitated nanopartic Physics, 2023, 19, 1009-1013.	e. Nature	6.5	26
1889	Topological synchronization of quantum van der Pol oscillators. Physical Review Resear	ch, 2023, 5, .	1.3	3
1890	Trapped ions beyond carrier and sideband interactions. Physical Review A, 2023, 107, .		1.0	0

#	Article	IF	CITATIONS
1891	The physics and applications of strongly coupled Coulomb systems (plasmas) levitated in electrodynamic traps. Physics Reports, 2023, 1016, 1-103.	10.3	3
1892	The Possibility of Generating Photon Cluster using lons in a Linear Trap. , 2022, , .		0
1893	Coherent resonant coupling between atoms and a mechanical oscillator mediated by cavity-vacuum fluctuations. Physical Review Research, 2023, 5, .	1.3	4
1894	Offset Lock with 440 GHz Range usingElectro-Optic Modulation. , 0, , .		0
1895	Interaction of twisted light with a trapped atom: Interplay between electronic and motional degrees of freedom. Physical Review A, 2023, 107, .	1.0	4
1896	The Physical Foundation of Quantum Theory. Foundations of Physics, 2023, 53, .	0.6	0
1897	Late-time critical behavior of local stringlike observables under quantum quenches. Physical Review B, 2023, 107, . Strong Coupling of a simplimath sminsum = "http://www.w3.org/1998/Math/MathML" display="inline"	1.1	1
1898	overflow="scroll"> <mml:mi>Gd</mml:mi> <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msup><mml:mi /><mml:mrow></mml:mrow></mml:mi </mml:msup></mml:math 	1.5	0
1899	Multilevel Spin System to an On-Chip Superconducting Resonator. Physical Review Applied, 2023, 19, . Rydberg ions in coherent motional states: a new method for determining the polarizability of Rydberg ions. New Journal of Physics, 2023, 25, 033020.	1.2	1
1900	Enhanced dark-state sideband cooling in trapped atoms via photon-mediated dipole-dipole interactions. Physical Review A, 2023, 107, .	1.0	2
1901	Scalable and programmable phononic network with trapped ions. Nature Physics, 2023, 19, 877-883.	6.5	6
1902	Influence of simultaneous weak measurements in Heisenberg uncertainty relation. Europhysics Letters, 2023, 141, 68002.	0.7	0
1903	Photonic shielding in giant resonator system. Wuli Xuebao/Acta Physica Sinica, 2023, 72, 094202.	0.2	0
1904	Parallel tomography of quantum non-demolition measurements in multi-qubit devices. Npj Quantum Information, 2023, 9, .	2.8	2
1905	Multiphonon Bundle Emission in a Strong oupling Cavity Optomechanical System. Annalen Der Physik, 2023, 535, .	0.9	0
1906	Vacuum-enhanced charging of a quantum battery. Physical Review A, 2023, 107, .	1.0	5
1907	The resonance fluorescence cascade of a laser-excited two-level atom. , 2023, 2023, .		1
1908	Measurement-based ground-state cooling of a trapped-ion oscillator. Physical Review A, 2023, 107, .	1.0	0

#	Article	IF	CITATIONS
1909	Chiral-coupling-assisted refrigeration in trapped ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2023, 56, 105502.	0.6	2
1910	Many-body bound states and induced interactions of charged impurities in a bosonic bath. Nature Communications, 2023, 14, .	5.8	7
1911	Effects of micromotion on the squeezing and on the dynamical behaviour of ion in a Paul trap. European Physical Journal Plus, 2023, 138, .	1.2	0
1912	Control of an Atomic Quadrupole Transition in a Phase-Stable Standing Wave. Physical Review Letters, 2023, 130, .	2.9	4
1913	Entangling gates for trapped-ion quantum computation and quantum simulation. Journal of the Korean Physical Society, 0, , .	0.3	2
1914	Engineering Dynamically Decoupled Quantum Simulations with Trapped Ions. PRX Quantum, 2023, 4, .	3.5	9
1915	Vibration-assisted multiphoton resonance and multi-ion excitation. Physical Review Research, 2023, 5, .	1.3	1
1916	mathvariant="normal">S <mml:mn>0</mml:mn> <mml:none></mml:none> <mml:mprescripts></mml:mprescripts> <mml:none /><mml:mn>1</mml:mn><mml:mtext>â^<</mml:mtext><mml:mmultiscripts><mml:mi mathvariant="normal">P<mml:mn>2</mml:mn><mml:none></mml:none><mml:mprescripts></mml:mprescripts><mml:none /><mml:mn>3</mml:mn>ultiscripts>magnetic quadrupole transition in neutral</mml:none </mml:mi </mml:mmultiscripts></mml:none 	1.3	4
1917	strontium. Physical Review Research, 2023, 5, . Controlling gain with loss: Bounds on localizable entanglement in multiqubit systems. Physical Review A, 2023, 107, .	1.0	1
1918	Continuous Raman sideband cooling beyond the Lamb-Dicke regime in a trapped ion chain. Physical Review Research, 2023, 5, .	1.3	3
1919	Strategies for a practical advantage of fault-tolerant circuit design in noisy trapped-ion quantum computers. Physical Review A, 2023, 107, .	1.0	4
1948	Quantum Computing atÂlQM. Computational Methods in Applied Sciences (Springer), 2023, , 373-393.	0.1	0
1955	Coherent and incoherent trapped-ion quantum control in structured lightfields. , 2023, , .		0
1989	QASMTrans: A QASM Quantum Transpiler Framework for NISQ Devices. , 2023, , .		1
1999	Experiments in Cavity QED and with Trapped Ions. , 2023, , 308-337.		0
2001	Control Infrastructure for Near-Term Long-Chain QCCD. , 2023, , .		0
2007	Molecular Structure and Production of Ultracold \$\${ }^{88}mathrm {Sr}_2\$\$ in an Optical Lattice. Springer Theses, 2024, , 13-38.	0.0	0
2014	Applications of the Matrix Perturbation Method. , 2023, , 107-136.		0

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IF CITATIONS