

Quantum interface between light and atomic ensembles

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Gaussification of quantum states of traveling light beams in atomic memory. Physical Review A, 2010, 82, .	1.0	1
2	Linear and nonlinear light propagations in a Doppler-broadened medium via electromagnetically induced transparency. Physical Review A, 2010, 82, .	1.0	24
3	Quantum imaging of spin states in optical lattices. Physical Review A, 2010, 82, .	1.0	13
4	Quantum memory for light via a stimulated off-resonant Raman process: Beyond the three-level λ -scheme approximation. Physical Review A, 2010, 82, .	1.0	24
5	Light-matter entanglement via dark-state resonances. Physical Review A, 2010, 82, .	1.0	12
6	Generation of two-color EPR-entangled optical beams in macroscopic atomic ensembles. Physical Review A, 2010, 82, .	1.0	1
7	Collective photon emission from symmetric states created with Rydberg atoms on a ring lattice. Physical Review A, 2010, 82, .	1.0	22
8	Semiconductor spin noise spectroscopy: Fundamentals, accomplishments, and challenges. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 43, 569-587.	1.3	102
9	Entangled photons and quantum communication. Physics Reports, 2010, 497, 1-40.	10.3	75
10	Entanglement of spin waves among four quantum memories. Nature, 2010, 468, 412-416.	13.7	113
11	Writing and reading quantum states of light with tunable cavity: Application to single-photon sources. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2010, 109, 32-39.	0.2	4
12	A quantum telecom link. Nature Physics, 2010, 6, 838-839.	6.5	0
13	Just a matter of time. Nature Physics, 2010, 6, 839-839.	6.5	0
14	Strongly Enhanced Spin Squeezing via Quantum Control. Physical Review Letters, 2010, 105, 193602.	2.9	31
15	Highly entangled photons and rapidly responding polarization qubit phase gates in a room-temperature active Raman gain medium. Physical Review A, 2010, 82, .	1.0	7
16	Distillation and purification of symmetric entangled Gaussian states. Physical Review A, 2010, 82, .	1.0	34
17	Calculated Hanle transmission and absorption spectra of the Rb87D1 line with residual magnetic field for arbitrarily polarized light. Physical Review A, 2010, 82, .	1.0	18
18	Memory effects in attenuation and amplification quantum processes. Physical Review A, 2010, 82, .	1.0	13

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19	Optical lattices with micromechanical mirrors. <i>Physical Review A</i> , 2010, 82, .	1.0	57
20	Qubit-induced high-order nonlinear interaction of the polar molecules in a stripline cavity. <i>Physical Review A</i> , 2010, 82, .	1.0	10
21	Optical control of Faraday rotation in hot Rb vapor. <i>Physical Review A</i> , 2010, 81, .	1.0	28
22	Coupling Nitrogen-Vacancy Centers in Diamond to Superconducting Flux Qubits. <i>Physical Review Letters</i> , 2010, 105, 210501.	2.9	215
23	Nonlinear metrology with a quantum interface. <i>New Journal of Physics</i> , 2010, 12, 093016.	1.2	39
24	Comparing phonon dephasing lifetimes in diamond using Transient Coherent Ultrafast Phonon Spectroscopy. <i>Diamond and Related Materials</i> , 2010, 19, 1289-1295.	1.8	44
25	Controllable Gaussian-Qubit Interface for Extremal Quantum State Engineering. <i>Physical Review Letters</i> , 2010, 104, 240501.	2.9	15
26	Strong nonlinear coupling between an ultracold atomic ensemble and a nanomechanical oscillator. <i>Optics Express</i> , 2010, 18, 23016.	1.7	4
27	Quantum information with Rydberg atoms. <i>Reviews of Modern Physics</i> , 2010, 82, 2313-2363.	16.4	1,968
28	Nonlinear emission spectra of quantum dots strongly coupled to a photonic mode. <i>Physical Review B</i> , 2010, 82, .	1.1	25
29	Impedance-matched cavity quantum memory. <i>Physical Review A</i> , 2010, 82, .	1.0	143
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31	Engineering biphoton wave packets with an electromagnetically induced grating. <i>Physical Review A</i> , 2010, 82, .	1.0	34
32	From molecular control to quantum technology with the dynamic Stark effect. <i>Faraday Discussions</i> , 2011, 153, 321.	1.6	11
33	Gauge fields emerging from time-reversal symmetry breaking for spin-5/2 fermions in a honeycomb lattice. <i>Physical Review A</i> , 2011, 84, .	1.0	43
34	Photon-Photon Gates in Bose-Einstein Condensates. <i>Physical Review Letters</i> , 2011, 107, 043601.	2.9	18
35	Entanglement concentration for two atomic ensembles using an effective atom-light beamsplitter. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 175506.	0.6	2
36	An approximate effective beamsplitter interaction between light and atomic ensembles. <i>Physica Scripta</i> , 2011, T143, 014023.	1.2	1

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38	Storage and retrieval of continuous-variable polarization-entangled cluster states in atomic ensembles. Physical Review A, 2011, 84, .	1.0	2
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47	Double-pass quantum volume hologram. Physical Review A, 2011, 83, .	1.0	2
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50	Optical control of diffuse light storage in an ultracold atomic gas. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1459.	0.9	8
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65	Quantum memory for entangled continuous-variable states. Nature Physics, 2011, 7, 13-16.	6.5	130
66	Interaction-based quantum metrology showing scaling beyond the Heisenberg limit. Nature, 2011, 471, 486-489.	13.7	185
67	Quantum spin squeezing. Physics Reports, 2011, 509, 89-165.	10.3	568
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77	Entanglement of nitrogen-vacancy-center ensembles using transmission line resonators and a superconducting phase qubit. Physical Review A, 2011, 83, .	1.0	56
78	Electromagnetically induced transparency in an inhomogeneously broadened $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{\rho} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ transition with multiple excited levels. Physical Review A, 2011, 83, .	1.0	44
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90	Heralded amplification for precision measurements with spin ensembles. Physical Review A, 2011, 84, .	1.0	5

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92	High-speed spatially multimode atomic memory. <i>Physical Review A</i> , 2011, 83, .	1.0	24
93	Photon-echo quantum memory with complete use of natural inhomogeneous broadening. <i>Physical Review A</i> , 2011, 83, .	1.0	15
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102	Asymptotically optimal quantum channel reversal for qudit ensembles and multimode Gaussian states. <i>New Journal of Physics</i> , 2012, 14, 113041.	1.2	2
103	Quantum noise for Faraday light-matter interfaces. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 124007.	0.6	14
104	REALIZATION OF NONLOCAL QUANTUM GATE THROUGH ASSISTED-CAVITIES. <i>International Journal of Quantum Information</i> , 2012, 10, 1250011.	0.6	2
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106	Generation and delayed retrieval of spatially multimode Raman scattering in warm rubidium vapors. <i>Optics Express</i> , 2012, 20, 29540.	1.7	28
107	Quantum memory in warm rubidium vapor with buffer gas. <i>Optics Letters</i> , 2012, 37, 142.	1.7	35
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146	Atomic nonclassicality quasiprobabilities. <i>Physical Review A</i> , 2012, 86, .	1.0	24
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184	Generation of macroscopic quantum superpositions of optomechanical oscillators by dissipation. Physical Review A, 2013, 88, .	1.0	62
185	<i>Colloquium</i>: Coherent diffusion of polaritons in atomic media. Reviews of Modern Physics, 2013, 85, 941-960.	16.4	42
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