Matthew J Collett

List of Publications by Year
in descending order

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49 papers	5,258 citations	249298 26 h-index	252626 46 g-index
49 all docs	49 docs citations	49 times ranked	2619 citing authors

#	Article	IF	Citations
1	Ellipse fitting for interferometry Part 2: experimental realization. Applied Optics, 2014, 53, 7697.	2.1	8
2	A dense Bose fluid at zero temperature: condensation and clusters in liquid 4He. European Physical Journal D, 2014, 68, 1.	0.6	0
3	Precision heterodyne ellipsometry with an improved conic fitting algorithm. , 2013, , .		0
4	Multi-photon blockade and dressing of the dressed states. Optics Communications, 2010, 283, 766-772.	1.0	52
5	Quantum Teleportation of the Temporal Fluctuations of Light. Physical Review Letters, 2009, 102, 230501.	2.9	12
6	Beyond the Fokker-Planck equation: Stochastic simulation of complete Wigner representation for the optical parametric oscillator. Europhysics Letters, 2001, 56, 372-378.	0.7	33
7	Excess-noise-enhanced parametric down conversion. Physical Review A, 2001, 64, .	1.0	7
8	The linewidth of a non-Markovian atom laser. Optics Communications, 2000, 179, 571-576.	1.0	3
9	An atom laser based on dark-state cooling: a detailed description. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 3669-3700.	0.6	3
10	A non-Markovian quantum trajectory approach to radiation into structured continuum. Journal of Optics B: Quantum and Semiclassical Optics, 1999, 1, 452-458.	1.4	12
11	Non-Markovian quantum trajectories for spectral detection. Physical Review A, 1999, 59, 2306-2321.	1.0	29
12	An atom laser based on dark-state cooling. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 202, 246-252.	0.9	99
13	Complementarity and uncertainty. Nature, 1995, 375, 368-368.	13.7	68
14	Measurement of Atomic Motion in a Standing Light Field by Homodyne Detection. Physical Review Letters, 1995, 74, 351-354.	2.9	120
15	Enhanced squeezing due to the influence of two instabilities. Physical Review A, 1995, 51, 3318-3327.	1.0	4
16	Contractive states of a free atom. Physical Review A, 1994, 49, 2322-2328.	1.0	42
17	Quantum-nondemolition measurement of photon number using radiation pressure. Physical Review A, 1994, 49, 1961-1966.	1.0	84
18	Bright squeezed light from a singly resonant frequency doubler. Physical Review Letters, 1994, 72, 3807-3810.	2.9	101

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19	Path detection and the uncertainty principle. Nature, 1994, 367, 626-628.	13.7	137
20	Quantum non-demolition measurements with an optical parametric amplifier. Optics Communications, 1993, 102, 105-110.	1.0	15
21	Quantum noise in two- and three-level models of the laser. Physical Review A, 1993, 47, 5030-5036.	1.0	11
22	Second-harmonic generation inside a laser cavity with slowly decaying atoms. Physical Review A, 1993, 47, 2324-2332.	1.0	11
23	Atomic-position resolution by quadrature-field measurement. Physical Review A, 1993, 47, 405-418.	1.0	132
24	Quantum-nondemolition schemes to measure quadrature phases using intracavity harmonic generation. Physical Review A, 1993, 48, 1532-1547.	1.0	10
25	Generation of number-phase squeezed states. Physical Review Letters, 1993, 70, 3400-3403.	2.9	18
26	Quantum limits in interferometric detection of gravitational radiation. Physical Review A, 1993, 47, 3173-3189.	1.0	145
27	Quantum noise properties and power requirements of optical transmission line taps. Journal of the European Optical Society Part B: Quantum Optics, 1992, 4, 19-30.	1.2	4
28	Quantum-nondemolition-measurement scheme using a Kerr medium. Physical Review A, 1992, 46, 1499-1506.	1.0	41
29	Tan, Walls, and Collett reply. Physical Review Letters, 1992, 68, 895-895.	2.9	22
30	Measurement-induced diffraction and interference of atoms. Physical Review Letters, 1992, 68, 472-475.	2.9	207
31	Nondegenerate two-mode squeezing and quantum-nondemolition measurements using three-level atoms in a cavity. Physical Review A, 1992, 45, 5171-5179.	1.0	34
32	Nonlocality of a single photon. Physical Review Letters, 1991, 66, 252-255.	2.9	302
33	Squeezing of two light fields coupled by a two-photon transition in a cavity. Optics Communications, 1991, 84, 409-418.	1.0	4
34	Phase squeezing using intracavity subharmonic generation. Optics Communications, 1991, 82, 171-182.	1.0	6
35	Two-photon-loss model of intracavity second-harmonic generation. Physical Review A, 1991, 43, 5068-5072.	1.0	28
36	Quantum-nondemolition measurements via second-harmonic generation. Physical Review Letters, 1991, 66, 1115-1118.	2.9	23

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37	Quantum noise reduction in lasers with intracavity second-harmonic generation and injected signal. Journal of the European Optical Society Part B: Quantum Optics, 1990, 2, 365-385.	1.2	4
38	Nonideal quantum nondemolition measurements. Physical Review A, 1990, 42, 2995-3005.	1.0	131
39	Amplitude-noise reduction in lasers with intracavity nonlinear elements. Physical Review A, 1990, 42, 4366-4373.	1.0	34
40	Mechanism for pumping lasers with squeezed light. Physical Review A, 1989, 39, 3211-3213.	1.0	10
41	Representations of Squeezed States with Thermal Noise. Journal of Modern Optics, 1988, 35, 553-564.	0.6	100
42	Exact density-matrix calculations for simple open systems. Physical Review A, 1988, 38, 2233-2247.	1.0	57
43	Quantum Limits to Light Amplifiers. Physical Review Letters, 1988, 61, 2442-2444.	2.9	25
44	States of the phase-damped oscillator. Physical Review A, 1988, 38, 4907-4909.	1.0	0
45	Quantum Theory of Optical Homodyne and Heterodyne Detection. Journal of Modern Optics, 1987, 34, 881-902.	0.6	134
46	Input and output in damped quantum systems: Quantum stochastic differential equations and the master equation. Physical Review A, 1985, 31, 3761-3774.	1.0	1,537
47	Squeezing spectra for nonlinear optical systems. Physical Review A, 1985, 32, 2887-2892.	1.0	355
48	Spectrum of squeezing in resonance fluorescence. Optics Communications, 1984, 52, 145-149.	1.0	110
49	Squeezing of intracavity and traveling-wave light fields produced in parametric amplification. Physical Review A, 1984, 30, 1386-1391.	1.0	934