Matthew J Collett

List of Publications by Year in descending order

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218677 223800 5,258 49 26 46 citations g-index h-index papers 49 49 49 2330 docs citations times ranked citing authors all docs

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Input and output in damped quantum systems: Quantum stochastic differential equations and the master equation. Physical Review A, 1985, 31, 3761-3774. | 2.5 | 1,537 |
| 2 | Squeezing of intracavity and traveling-wave light fields produced in parametric amplification. Physical Review A, 1984, 30, 1386-1391. | 2.5 | 934 |
| 3 | Squeezing spectra for nonlinear optical systems. Physical Review A, 1985, 32, 2887-2892. | 2.5 | 355 |
| 4 | Nonlocality of a single photon. Physical Review Letters, 1991, 66, 252-255. | 7.8 | 302 |
| 5 | Measurement-induced diffraction and interference of atoms. Physical Review Letters, 1992, 68, 472-475. | 7.8 | 207 |
| 6 | Quantum limits in interferometric detection of gravitational radiation. Physical Review A, 1993, 47, 3173-3189. | 2.5 | 145 |
| 7 | Path detection and the uncertainty principle. Nature, 1994, 367, 626-628. | 27.8 | 137 |
| 8 | Quantum Theory of Optical Homodyne and Heterodyne Detection. Journal of Modern Optics, 1987, 34, 881-902. | 1.3 | 134 |
| 9 | Atomic-position resolution by quadrature-field measurement. Physical Review A, 1993, 47, 405-418. | 2.5 | 132 |
| 10 | Nonideal quantum nondemolition measurements. Physical Review A, 1990, 42, 2995-3005. | 2.5 | 131 |
| 11 | Measurement of Atomic Motion in a Standing Light Field by Homodyne Detection. Physical Review Letters, 1995, 74, 351-354. | 7.8 | 120 |
| 12 | Spectrum of squeezing in resonance fluorescence. Optics Communications, 1984, 52, 145-149. | 2.1 | 110 |
| 13 | Bright squeezed light from a singly resonant frequency doubler. Physical Review Letters, 1994, 72, 3807-3810. | 7.8 | 101 |
| 14 | Representations of Squeezed States with Thermal Noise. Journal of Modern Optics, 1988, 35, 553-564. | 1.3 | 100 |
| 15 | An atom laser based on dark-state cooling. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 202, 246-252. | 2.1 | 99 |
| 16 | Quantum-nondemolition measurement of photon number using radiation pressure. Physical Review A, 1994, 49, 1961-1966. | 2.5 | 84 |
| 17 | Complementarity and uncertainty. Nature, 1995, 375, 368-368. | 27.8 | 68 |
| 18 | Exact density-matrix calculations for simple open systems. Physical Review A, 1988, 38, 2233-2247. | 2.5 | 57 |

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| 19 | Multi-photon blockade and dressing of the dressed states. Optics Communications, 2010, 283, 766-772. | 2.1 | 52 |
| 20 | Contractive states of a free atom. Physical Review A, 1994, 49, 2322-2328. | 2.5 | 42 |
| 21 | Quantum-nondemolition-measurement scheme using a Kerr medium. Physical Review A, 1992, 46, 1499-1506. | 2.5 | 41 |
| 22 | Amplitude-noise reduction in lasers with intracavity nonlinear elements. Physical Review A, 1990, 42, 4366-4373. | 2.5 | 34 |
| 23 | Nondegenerate two-mode squeezing and quantum-nondemolition measurements using three-level atoms in a cavity. Physical Review A, 1992, 45, 5171-5179. | 2.5 | 34 |
| 24 | Beyond the Fokker-Planck equation: Stochastic simulation of complete Wigner representation for the optical parametric oscillator. Europhysics Letters, 2001, 56, 372-378. | 2.0 | 33 |
| 25 | Non-Markovian quantum trajectories for spectral detection. Physical Review A, 1999, 59, 2306-2321. | 2.5 | 29 |
| 26 | Two-photon-loss model of intracavity second-harmonic generation. Physical Review A, 1991, 43, 5068-5072. | 2.5 | 28 |
| 27 | Quantum Limits to Light Amplifiers. Physical Review Letters, 1988, 61, 2442-2444. | 7.8 | 25 |
| 28 | Quantum-nondemolition measurements via second-harmonic generation. Physical Review Letters, 1991, 66, 1115-1118. | 7.8 | 23 |
| 29 | Tan, Walls, and Collett reply. Physical Review Letters, 1992, 68, 895-895. | 7.8 | 22 |
| 30 | Generation of number-phase squeezed states. Physical Review Letters, 1993, 70, 3400-3403. | 7.8 | 18 |
| 31 | Quantum non-demolition measurements with an optical parametric amplifier. Optics Communications, 1993, 102, 105-110. | 2.1 | 15 |
| 32 | 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 |
| 33 | Quantum Teleportation of the Temporal Fluctuations of Light. Physical Review Letters, 2009, 102, 230501. | 7.8 | 12 |
| 34 | Quantum noise in two- and three-level models of the laser. Physical Review A, 1993, 47, 5030-5036. | 2.5 | 11 |
| 35 | Second-harmonic generation inside a laser cavity with slowly decaying atoms. Physical Review A, 1993, 47, 2324-2332. | 2.5 | 11 |
| 36 | Mechanism for pumping lasers with squeezed light. Physical Review A, 1989, 39, 3211-3213. | 2.5 | 10 |

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| 37 | Quantum-nondemolition schemes to measure quadrature phases using intracavity harmonic generation. Physical Review A, 1993, 48, 1532-1547. | 2.5 | 10 |
| 38 | Ellipse fitting for interferometry Part 2: experimental realization. Applied Optics, 2014, 53, 7697. | 2.1 | 8 |
| 39 | Excess-noise-enhanced parametric down conversion. Physical Review A, 2001, 64, . | 2.5 | 7 |
| 40 | Phase squeezing using intracavity subharmonic generation. Optics Communications, 1991, 82, 171-182. | 2.1 | 6 |
| 41 | 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 |
| 42 | Squeezing of two light fields coupled by a two-photon transition in a cavity. Optics Communications, 1991, 84, 409-418. | 2.1 | 4 |
| 43 | 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 |
| 44 | Enhanced squeezing due to the influence of two instabilities. Physical Review A, 1995, 51, 3318-3327. | 2.5 | 4 |
| 45 | An atom laser based on dark-state cooling: a detailed description. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 3669-3700. | 1.5 | 3 |
| 46 | The linewidth of a non-Markovian atom laser. Optics Communications, 2000, 179, 571-576. | 2.1 | 3 |
| 47 | States of the phase-damped oscillator. Physical Review A, 1988, 38, 4907-4909. | 2.5 | 0 |
| 48 | Precision heterodyne ellipsometry with an improved conic fitting algorithm. , 2013, , . | | 0 |
| 49 | A dense Bose fluid at zero temperature: condensation and clusters in liquid 4He. European Physical Journal D, 2014, 68, 1. | 1.3 | O |