

B J Dalton

List of Publications by Year in descending order

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53
papers

1,010
citations

430874

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434195

31
g-index

54
all docs

54
docs citations

54
times ranked

476
citing authors

#	ARTICLE	IF	CITATIONS
1	Theory of pseudomodes in quantum optical processes. <i>Physical Review A</i> , 2001, 64, .	2.5	148
2	Field quantization in dielectric media and the generalized multipolar Hamiltonian. <i>Physical Review A</i> , 1996, 54, 2292-2313.	2.5	66
3	Fluorescence intensity and squeezing in a driven three-level atom: Ladder case. <i>Physical Review A</i> , 1995, 51, 4062-4077.	2.5	60
4	Atoms in squeezed light fields. <i>Journal of Modern Optics</i> , 1999, 46, 379-474.	1.3	60
5	Squeezing of Quantum Fluctuations via Atomic Coherence Effects. <i>Physical Review Letters</i> , 1985, 55, 1288-1290.	7.8	44
6	Resonance fluorescence spectra of three-level atoms in a squeezed vacuum. <i>Physical Review A</i> , 1996, 54, 2379-2390.	2.5	44
7	Quasi mode theory of macroscopic canonical quantization in quantum optics and cavity quantum electrodynamics. <i>Journal of Modern Optics</i> , 1999, 46, 1315-1341.	1.3	43
8	Non-Markovian decay of a three-level cascade atom in a structured reservoir. <i>Physical Review A</i> , 2003, 68, .	2.5	38
9	Conceptions of quantum optical phase. <i>Physica Scripta</i> , 1993, T48, 13-21.	2.5	33
10	Squeezing and trapping in three-level atoms. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1987, 4, 1558.	2.1	30
11	Probe absorption spectra for driven atomic systems in a narrow bandwidth squeezed vacuum. <i>Physical Review A</i> , 1996, 53, 4439-4467.	2.5	27
12	Macroscopic quantization in quantum optics and cavity quantum electrodynamics: Interatomic interactions. <i>Physical Review A</i> , 1997, 56, 905-911.	2.5	27
13	Quantum entanglement for systems of identical bosons: I. General features. <i>Physica Scripta</i> , 2017, 92, 023004.	2.5	27
14	Optimum field squeezing from atomic sources: Three-level atoms. <i>Physical Review A</i> , 1994, 50, 2646-2666.	2.5	24
15	Theory of non-Markovian decay of a cascade atom in high-Q cavities and photonic band gap materials. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, S767-S786.	1.5	24
16	New spin squeezing and other entanglement tests for two mode systems of identical bosons. <i>New Journal of Physics</i> , 2014, 16, 013026.	2.9	22
17	Liouville space theory of sequential quantum processes. I. General theory. <i>Journal of Physics A</i> , 1982, 15, 2157-2176.	1.6	20
18	Quantum entanglement for systems of identical bosons: II. Spin squeezing and other entanglement tests. <i>Physica Scripta</i> , 2017, 92, 023005.	2.5	20

#	ARTICLE	IF	CITATIONS
19	Effect of Internal Atomic Relaxation on Quantum Fields. <i>Physica Scripta</i> , 1986, T12, 43-50.	2.5	19
20	The standard model in cavity quantum electrodynamics. I. General features of mode functions for a Fabry-Perot cavity. <i>Journal of Modern Optics</i> , 1999, 46, 1817-1837.	1.3	16
21	Atoms in squeezed light fields. <i>Journal of Modern Optics</i> , 1999, 46, 379-474.	1.3	16
22	Steady-state squeezing in a driven three-level $\hat{\rho}$ system. <i>Physical Review A</i> , 1994, 50, 2594-2598.	2.5	15
23	A quantum scattering theory approach to quantum-optical measurements. <i>Journal of Modern Optics</i> , 1999, 46, 1107-1121.	1.3	14
24	Strongly driven Stark coupled three-level systems and transitions at the Rabi frequency. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1985, 18, 4403-4423.	1.6	12
25	Spectral linewidth narrowing by a narrow bandwidth squeezed vacuum in a cavity. <i>Journal of Modern Optics</i> , 1997, 44, 1005-1022.	1.3	12
26	Mesoscopic two-mode entangled and steerable states of 40,000 atoms in a Bose-Einstein-condensate interferometer. <i>Physical Review A</i> , 2019, 100, .	2.5	11
27	Generalized quasi mode theory of macroscopic canonical quantization in cavity quantum electrodynamics and quantum optics I. Theory. <i>Journal of Modern Optics</i> , 2001, 48, 597-618.	1.3	10
28	Two-mode theory of BEC interferometry. <i>Journal of Modern Optics</i> , 2007, 54, 615-637.	1.3	10
29	Einstein-Podolsky-Rosen steering, depth of steering, and planar spin squeezing in two-mode Bose-Einstein condensates. <i>Physical Review A</i> , 2018, 98, .	2.5	10
30	Macroscopic canonical quantization in quantum optics: Properties of quasi mode annihilation and creation operators. <i>Journal of Modern Optics</i> , 1999, 46, 1495-1502.	1.3	9
31	The standard model in cavity quantum electrodynamics. II. Coupling constants and atom field interaction. <i>Journal of Modern Optics</i> , 1999, 46, 1839-1868.	1.3	9
32	Field quantization, photons and non-Hermitean modes. <i>Journal of Modern Optics</i> , 2002, 49, 1009-1041.	1.3	9
33	Scaling of decoherence effects in quantum computers. <i>Journal of Modern Optics</i> , 2003, 50, 951-966.	1.3	9
34	Quasi mode theory of macroscopic canonical quantization in quantum optics and cavity quantum electrodynamics. <i>Journal of Modern Optics</i> , 1999, 46, 1315-1341.	1.3	9
35	Theory of photon counting for phase-dependent three-level detector systems. <i>Physical Review A</i> , 1990, 42, 3034-3043.	2.5	8
36	Analytical solution for the Mollow and Autler-Townes probe absorption spectra of a three-level atom in a squeezed vacuum. <i>Physical Review A</i> , 1998, 57, 3869-3879.	2.5	8

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37	The effect of resonant two-photon ionisation on the AC Stark effect spectrum. Journal of Physics B: Atomic and Molecular Physics, 1982, 15, 553-560.	1.6	7
38	Phase-dependent fluorescence linewidth narrowing in a three-level atom damped by a finite-bandwidth squeezed vacuum. Physical Review A, 1997, 56, 4125-4138.	2.5	7
39	Quasi mode theory of the beam splitter-a quantum scattering theory approach. Journal of Modern Optics, 1999, 46, 1559-1577.	1.3	6
40	Quasimode theory of quantum optical processes in photonic band gap materials. Journal of Modern Optics, 2002, 49, 947-958.	1.3	4
41	Classification of Rotational Energy Levels for Linear Molecules. Journal of Chemical Physics, 1966, 44, 4406-4415.	3.0	3
42	Decoherence rates in large-scale quantum computers and macroscopic quantum systems. Journal of Modern Optics, 2005, 52, 2563-2587.	1.3	3
43	Generalized quasi mode theory of macroscopic canonical quantization in cavity quantum electrodynamics and quantum optics II. Application to reflection and refraction at a dielectric interface. Journal of Modern Optics, 2001, 48, 639-669.	1.3	3
44	Cascade atom in high-Q cavity: the spectrum for non-Markovian decay. Journal of Modern Optics, 2007, 54, 2049-2099.	1.3	2
45	Spectral linewidth narrowing by a narrow bandwidth squeezed vacuum in a cavity. Journal of Modern Optics, 1997, 44, 1005-1022.	1.3	2
46	Absorption spectrum of a strongly driven atom in a detuned squeezed vacuum. Journal of Optics B: Quantum and Semiclassical Optics, 1999, 1, 433-441.	1.4	1
47	Generalized quasi mode theory of macroscopic canonical quantization in cavity quantum electrodynamics and quantum optics. II. Application to reflection and refraction at a dielectric interface. Journal of Modern Optics, 2001, 48, 639-669.	1.3	1
48	Theory of the Absorption Spectrum. , 1984, , 791-800.		1
49	Scaling of decoherence effects in quantum computers. Journal of Modern Optics, 2003, 50, 951-966.	1.3	1
50	Quasimodes and pseudomodes in structured reservoirs. , 2003, , 495-496.		0
51	The Photon Model and Non-Hermitean Modes. , 2003, , 373-374.		0
52	Cascade atom in high-Q cavity: the spectrum for non-Markovian decay. , 2007, , .		0
53	Dynamics of three-level atoms: jumping and squeezing. Lecture Notes in Physics, 1987, , 71-91.	0.7	0