

A Scott Parkins

List of Publications by Year in descending order

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50
papers

2,736
citations

304368

22
h-index

243296

44
g-index

51
all docs

51
docs citations

51
times ranked

1576
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of arbitrary quantum states via adiabatic transfer of Zeeman coherence. <i>Physical Review Letters</i> , 1993, 71, 3095-3098.	2.9	357
2	Wave-function quantum stochastic differential equations and quantum-jump simulation methods. <i>Physical Review A</i> , 1992, 46, 4363-4381.	1.0	354
3	â€˜â€˜Darkâ€™â€™ squeezed states of the motion of a trapped ion. <i>Physical Review Letters</i> , 1993, 70, 556-559.	2.9	253
4	Preparation of Fock states by observation of quantum jumps in an ion trap. <i>Physical Review Letters</i> , 1993, 70, 762-765.	2.9	224
5	Monte Carlo simulation of master equations in quantum optics for vacuum, thermal, and squeezed reservoirs. <i>Physical Review A</i> , 1992, 46, 4382-4396.	1.0	211
6	Quantum-state mapping between multilevel atoms and cavity light fields. <i>Physical Review A</i> , 1995, 51, 1578-1596.	1.0	176
7	Unconditional Preparation of Entanglement between Atoms in Cascaded Optical Cavities. <i>Physical Review Letters</i> , 2003, 91, 177901.	2.9	150
8	Realization of the Dicke Model Using Cavity-Assisted Raman Transitions. <i>Physical Review Letters</i> , 2014, 113, 020408.	2.9	129
9	Quantum collapse and revival in the motion of a single trapped ion. <i>Physical Review A</i> , 1994, 49, 1202-1207.	1.0	128
10	Cavity-QED simulation of qubit-oscillator dynamics in the ultrastrong-coupling regime. <i>Physical Review A</i> , 2013, 87, .	1.0	74
11	Laser cooling of trapped ions: The influence of micromotion. <i>Physical Review A</i> , 1994, 49, 421-432.	1.0	66
12	Photon routing in cavity QED: Beyond the fundamental limit of photon blockade. <i>Physical Review A</i> , 2011, 84, .	1.0	64
13	Cavity QED Engineering of Spin Dynamics and Squeezing in a Spinor Gas. <i>Physical Review Letters</i> , 2017, 119, 213601.	2.9	48
14	Spectrum of resonance fluorescence from a single trapped ion. <i>Physical Review A</i> , 1993, 48, 2169-2181.	1.0	45
15	Enhanced optical squeezing from a degenerate parametric amplifier via time-delayed coherent feedback. <i>Physical Review A</i> , 2016, 94, .	1.0	40
16	Ballistic and Localized Transport for the Atom Optics Kicked Rotor in the Limit of a Vanishing Kicking Period. <i>Physical Review Letters</i> , 2005, 94, 174103.	2.9	39
17	Cooling of a trapped ion coupled strongly to a quantized cavity mode. <i>Optics Communications</i> , 1993, 97, 353-359.	1.0	35
18	Spectral linewidth narrowing in a strongly coupled atom-cavity system via squeezed-light excitation of a â€˜â€˜vacuumâ€™â€™ Rabi resonance. <i>Physical Review A</i> , 1993, 48, 758-763.	1.0	31

#	ARTICLE	IF	CITATIONS
19	Observation of robust quantum resonance peaks in an atom optics kicked rotor with amplitude noise. <i>Physical Review E</i> , 2004, 70, 036217.	0.8	29
20	Pronounced non-Markovian features in multiply excited, multiple emitter waveguide QED: Retardation induced anomalous population trapping. <i>Physical Review Research</i> , 2020, 2, .	1.3	27
21	Experimental verification of a one-parameter scaling law for the quantum and "classical" resonances of the atom-optics kicked rotor. <i>Physical Review A</i> , 2005, 71, .	1.0	25
22	Open Rabi model with ultrastrong coupling plus large dispersive-type nonlinearity: Nonclassical light via a tailored degeneracy. <i>Physical Review A</i> , 2014, 89, .	1.0	23
23	Ellipsometry with polarisation-entangled photons. <i>Optics Express</i> , 2006, 14, 7037.	1.7	22
24	Nonlinear semiclassical dynamics of the unbalanced, open Dicke model. <i>Physical Review Research</i> , 2020, 2, .	1.3	22
25	Comparison between continuous- and discrete-mode coherent feedback for the Jaynes-Cummings model. <i>Physical Review A</i> , 2019, 100, .	1.0	18
26	Laser cooling of trapped ions with polarization gradients. <i>Physical Review A</i> , 1993, 48, 1434-1445.	1.0	16
27	Microtoroidal cavity QED with fiber overcoupling and strong atom-field coupling: A single-atom quantum switch for coherent light fields. <i>Physical Review A</i> , 2014, 90, .	1.0	16
28	Superradiant switching, quantum hysteresis, and oscillations in a generalized Dicke model. <i>Physical Review A</i> , 2020, 102, .	1.0	16
29	Scaling law and stability for a noisy quantum system. <i>Physical Review E</i> , 2008, 78, 025206.	0.8	13
30	Extreme spin squeezing in the steady state of a generalized Dicke model. <i>Physical Review A</i> , 2019, 99, .	1.0	13
31	Laser cooling of atoms with broadband real Gaussian laser fields. <i>Physical Review A</i> , 1992, 45, 6522-6538.	1.0	11
32	Dynamics of genuine multipartite correlations in open quantum systems. <i>Physical Review A</i> , 2012, 86, .	1.0	11
33	Stabilizing quantum coherence against pure dephasing in the presence of time-delayed coherent feedback at finite temperature. <i>Physical Review A</i> , 2019, 99, .	1.0	8
34	Rapid Production of Many-Body Entanglement in Spin-1 Atoms via Cavity Output Photon Counting. <i>Physical Review Letters</i> , 2019, 122, 103601.	2.9	7
35	Single-atom transistor for light. <i>Nature</i> , 2010, 465, 699-700.	13.7	5
36	Quantum-optical realization of an Ornstein-Uhlenbeck-type process via simultaneous action of white noise and feedback. <i>Physical Review A</i> , 2020, 102, .	1.0	5

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37	The effect of amplitude noise on the quantum and diffusion resonances of the atom optics kicked rotor. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005, 29, 369-374.	1.3	4
38	Deviations from early-time quasilinear behavior for the atom-optics kicked rotor near the classical limit. <i>Physical Review E</i> , 2005, 71, 027201.	0.8	4
39	Coupling of effective one-dimensional two-level atoms to squeezed light. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2003, 5, 145-154.	1.4	3
40	Optical Quantum Logic at the Ultimate Limit. <i>Physics Magazine</i> , 2016, 9, .	0.1	3
41	Lasing and counter-lasing phase transitions in a cavity-QED system. <i>Physical Review Research</i> , 2022, 4, .	1.3	3
42	Single-Atom Transistors for Light. , 2013, , 635-654.		2
43	$\tilde{f} + \tilde{f}^{\wedge}$ laser-cooling configuration with broadband laser fields: Instability at zero velocity. <i>Physical Review A</i> , 1992, 45, R6161-R6164.	1.0	1
44	Generation of spin cat states in an engineered Dicke model. <i>Physical Review A</i> , 2021, 104, .	1.0	1
45	Interference-induced directional emission from an unpolarized two-level emitter into a circulating cavity. <i>Physical Review A</i> , 2022, 105, .	1.0	1
46	Single-Photon Nonlinear Optics and Quantum Control. , 2001, , 217-229.		0
47	Single Photon Quantum Control Via High- $\tilde{f}(3)$ Media. , 2002, , 433-442.		0
48	Teleporting an Atomic Wavepacket. , 2000, , 321-329.		0
49	Photon Correlations for Two-Mode Cavity QED. , 2007, , .		0
50	Manipulating the Squeezing Properties of a Degenerate Parametric Amplifier with Coherent, Time-Delayed Feedback. , 2016, , .		0