

# James Cresser

## List of Publications by Year in descending order

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43  
papers

1,466  
citations

304602

22  
h-index

315616

38  
g-index

43  
all docs

43  
docs citations

43  
times ranked

868  
citing authors

#	ARTICLE	IF	CITATIONS
1	Canonical form of master equations and characterization of non-Markovianity. <i>Physical Review A</i> , 2014, 89, .	1.0	248
2	Depolarizing channel as a completely positive map with memory. <i>Physical Review A</i> , 2004, 70, .	1.0	159
3	Finding the Kraus decomposition from a master equation and vice versa. <i>Journal of Modern Optics</i> , 2007, 54, 1695-1716.	0.6	119
4	Comparing different non-Markovianity measures in a driven qubit system. <i>Physical Review A</i> , 2011, 83, .	1.0	105
5	Theory of the spectrum of the quantised light field. <i>Physics Reports</i> , 1983, 94, 47-110.	10.3	86
6	Quantum noise in ring-laser gyros. I. Theoretical formulation of problem. <i>Physical Review A</i> , 1982, 25, 2214-2225.	1.0	63
7	Quantum noise in ring-laser gyros. II. Numerical results. <i>Physical Review A</i> , 1982, 25, 2226-2234.	1.0	53
8	Thermal Equilibrium in the Jaynes-Cummings Model. <i>Journal of Modern Optics</i> , 1992, 39, 2187-2192.	0.6	50
9	Quantum noise in a dithered-ring-laser gyroscope. <i>Physical Review A</i> , 1984, 29, 230-238.	1.0	40
10	Intensity correlations of frequency-filtered light fields. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1987, 20, 4915-4927.	1.6	34
11	Dynamics of correlations due to a phase-noisy laser. <i>Physica Scripta</i> , 2012, T147, 014004.	1.2	33
12	Quantum-field model of the injected atomic beam in the micromaser. <i>Physical Review A</i> , 1992, 46, 5913-5931.	1.0	32
13	Open quantum system dynamics and the mean force Gibbs state. <i>AVS Quantum Science</i> , 2022, 4, .	1.8	32
14	Markovian evolution of strongly coupled harmonic oscillators. <i>Physical Review A</i> , 2014, 90, .	1.0	30
15	A quantum trajectory analysis of the one-atom micromaser. <i>Quantum and Semiclassical Optics: Journal of the European Optical Society Part B</i> , 1996, 8, 73-104.	1.0	28
16	Geometric phase for an adiabatically evolving open quantum system. <i>Physical Review A</i> , 2004, 70, .	1.0	27
17	Master equations with memory for systems driven by classical noise. <i>Optics Communications</i> , 2010, 283, 773-780.	1.0	27
18	Spontaneous emission in a standing-wave cavity: Classical center-of-mass motion. <i>Physical Review A</i> , 1992, 46, 7162-7178.	1.0	26

#	ARTICLE	IF	CITATIONS
19	Quantum theory of friction. <i>Physical Review A</i> , 2005, 72, .	1.0	26
20	Quantum noise in ring-laser gyros. III. Approximate analytic results in unlocked region. <i>Physical Review A</i> , 1982, 26, 398-409.	1.0	25
21	Quantum Cayley networks of the hypercube. <i>Physical Review A</i> , 2008, 77, .	1.0	24
22	Lifetime of excited atomic states. <i>Physical Review A</i> , 1986, 33, 1677-1682.	1.0	23
23	Measurement master equation. <i>Optics Communications</i> , 2006, 264, 352-361.	1.0	22
24	Weak and Ultrastrong Coupling Limits of the Quantum Mean Force Gibbs State. <i>Physical Review Letters</i> , 2021, 127, 250601.	2.9	22
25	Super- and subradiant emission of two-level systems in the near-Dicke limit. <i>Physical Review A</i> , 2008, 77, .	1.0	21
26	The rate of spontaneous decay of a moving atom. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 1755-1759.	0.6	15
27	Transient delayed spectrum of collisionally damped resonance fluorescence in a partially coherent field. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1985, 2, 1361.	0.9	12
28	Time-averaged properties of the Jaynes-Cummings model. <i>Physical Review A</i> , 1989, 40, 1464-1473.	1.0	12
29	Using a biased quantum random walk as a quantum lumped element router. <i>Physical Review A</i> , 2014, 90, .	1.0	12
30	Electric field commutation relation in the presence of a dipole atom. <i>Physical Review A</i> , 1984, 29, 1984-1990.	1.0	11
31	Atomic-beam and cavity-field correlation functions in the micromaser. <i>Physical Review A</i> , 1994, 50, R925-R928.	1.0	10
32	Time-reversed quantum trajectory analysis of micromaser correlation properties and fluctuation relations. <i>Physica Scripta</i> , 2019, 94, 034005.	1.2	8
33	Resolvent operator theory of sequential quantum processes. <i>Journal of Physics A</i> , 1980, 13, 795-801.	1.6	6
34	Decoherence-free quantum information in the presence of dynamical evolution. <i>Physical Review A</i> , 2008, 77, .	1.0	6
35	From measurements to quantum friction. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S401-S410.	0.7	5
36	Quantum probability rule: a generalization of the theorems of Gleason and Busch. <i>New Journal of Physics</i> , 2014, 16, 043025.	1.2	5

#	ARTICLE	IF	CITATIONS
37	Unequal Time EM Field Commutators in Quantum Optics. Physica Scripta, 1988, T21, 52-57.	1.2	4
38	Theory of electron detection and photon photoelectron correlations in two-photon ionization. Journal of the Optical Society of America B: Optical Physics, 1989, 6, 1492.	0.9	3
39	Micromaser cavity field spectrum by atomic beam measurements. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, S733-S747.	0.6	2
40	A Theory of Matter Wave Detection. AIP Conference Proceedings, 2004, , .	0.3	0
41	Quantum theory of matter-wave detection. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 3117-3128.	0.6	0
42	Non-Markovian master equations with quantum trajectory unravellings. , 2007, , CMI49.		0
43	Time-reversed Quantum Trajectory Analysis of Micromaser Correlation Properties and Fluctuation Relations. , 2019, , .		0