

Jeff Lundeen

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61
papers

4,528
citations

29
h-index

67
g-index

81
ext. papers

5,367
ext. citations

7.1
avg, IF

5.44
L-index

#	Paper	IF	Citations
61	Super-resolving phase measurements with a multiphoton entangled state. <i>Nature</i> , 2004 , 429, 161-4	50.4	544
60	Direct measurement of the quantum wavefunction. <i>Nature</i> , 2011 , 474, 188-91	50.4	417
59	Heralded generation of ultrafast single photons in pure quantum States. <i>Physical Review Letters</i> , 2008 , 100, 133601	7.4	387
58	Using coherence to enhance function in chemical and biophysical systems. <i>Nature</i> , 2017 , 543, 647-656	50.4	367
57	Optimal quantum phase estimation. <i>Physical Review Letters</i> , 2009 , 102, 040403	7.4	307
56	Experimental joint weak measurement on a photon pair as a probe of Hardy's paradox. <i>Physical Review Letters</i> , 2009 , 102, 020404	7.4	234
55	Tomography of quantum detectors. <i>Nature Physics</i> , 2009 , 5, 27-30	16.2	197
54	Quantum phase estimation with lossy interferometers. <i>Physical Review A</i> , 2009 , 80,	2.6	182
53	Procedure for direct measurement of general quantum states using weak measurement. <i>Physical Review Letters</i> , 2012 , 108, 070402	7.4	166
52	Experimental realization of the quantum box problem. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004 , 324, 125-131	2.3	160
51	Photon pair-state preparation with tailored spectral properties by spontaneous four-wave mixing in photonic-crystal fiber. <i>Optics Express</i> , 2007 , 15, 14870-86	3.3	132
50	Experimental application of decoherence-free subspaces in an optical quantum-computing algorithm. <i>Physical Review Letters</i> , 2003 , 91, 187903	7.4	128
49	Tailored photon-pair generation in optical fibers. <i>Physical Review Letters</i> , 2009 , 102, 123603	7.4	119
48	A double-slit which-way experiment on the complementarity-uncertainty debate. <i>New Journal of Physics</i> , 2007 , 9, 287-287	2.9	112
47	Photon pair generation in birefringent optical fibers. <i>Optics Express</i> , 2009 , 17, 23589-602	3.3	95
46	Conditional preparation of single photons using parametric downconversion: a recipe for purity. <i>New Journal of Physics</i> , 2008 , 10, 093011	2.9	88
45	Quantum state preparation and conditional coherence. <i>Physical Review Letters</i> , 2002 , 88, 113601	7.4	78

44	Direct Measurement of the Density Matrix of a Quantum System. <i>Physical Review Letters</i> , 2016 , 117, 120401	7.4	67
43	Observing Dirac's classical phase space analog to the quantum state. <i>Physical Review Letters</i> , 2014 , 112, 070405	7.4	63
42	Conditional-phase switch at the single-photon level. <i>Physical Review Letters</i> , 2002 , 89, 037904	7.4	60
41	Mapping coherence in measurement via full quantum tomography of a hybrid optical detector. <i>Nature Photonics</i> , 2012 , 6, 364-368	33.9	59
40	Measuring measurement: theory and practice. <i>New Journal of Physics</i> , 2009 , 11, 093038	2.9	54
39	Weak Value Amplification Can Outperform Conventional Measurement in the Presence of Detector Saturation. <i>Physical Review Letters</i> , 2017 , 118, 070802	7.4	46
38	Classical dispersion-cancellation interferometry. <i>Optics Express</i> , 2007 , 15, 8797-804	3.3	45
37	Practical measurement of joint weak values and their connection to the annihilation operator. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005 , 334, 337-344	2.3	42
36	Nonlinear optics with less than one photon. <i>Physical Review Letters</i> , 2001 , 87, 123603	7.4	37
35	Nonlinearity in single photon detection: modeling and quantum tomography. <i>Optics Express</i> , 2011 , 19, 21305-12	3.3	33
34	Absolute efficiency estimation of photon-number-resolving detectors using twin beams. <i>Optics Express</i> , 2009 , 17, 4397-411	3.3	33
33	Total reflection cannot occur with a negative delay time. <i>IEEE Journal of Quantum Electronics</i> , 2001 , 37, 794-799	2	29
32	Optimal experiment design for quantum state tomography: Fair, precise, and minimal tomography. <i>Physical Review A</i> , 2010 , 81,	2.6	28
31	A characterization of the single-photon sensitivity of an electron multiplying charge-coupled device. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009 , 42, 114011	1.3	28
30	Experimental observation of nonclassical effects on single-photon detection rates. <i>Physical Review A</i> , 2001 , 63,	2.6	27
29	A proposed testbed for detector tomography. <i>Journal of Modern Optics</i> , 2009 , 56, 432-441	1.1	25
28	Bridging particle and wave sensitivity in a configurable detector of positive operator-valued measures. <i>Physical Review Letters</i> , 2009 , 102, 080404	7.4	23
27	An optic to replace space and its application towards ultra-thin imaging systems. <i>Nature Communications</i> , 2021 , 12, 3512	17.4	13

26	Approaching Quantum-Limited Metrology with Imperfect Detectors by Using Weak-Value Amplification. <i>Physical Review Letters</i> , 2020 , 125, 080501	7.4	11
25	Comment on "Manipulating the frequency-entangled states by an acoustic-optical modulator" <i>Physical Review A</i> , 2001 , 64,	2.6	10
24	Experimental investigation of measurement-induced disturbance and time symmetry in quantum physics. <i>Physical Review A</i> , 2018 , 97,	2.6	8
23	Experimental simultaneous readout of the real and imaginary parts of the weak value. <i>Physical Review A</i> , 2019 , 100,	2.6	6
22	Determining Complementary Properties with Quantum Clones. <i>Physical Review Letters</i> , 2017 , 119, 050405	4.5	6
21	Measurement of the transverse electric field profile of light by a self-referencing method with direct phase determination. <i>Optics Express</i> , 2012 , 20, 2034-44	3.3	6
20	Comment on "Linear optics implementation of weak values in Hardy's paradox" <i>Physical Review A</i> , 2005 , 72,	2.6	6
19	Weak-value measurements can outperform conventional measurements. <i>Physica Scripta</i> , 2017 , 92, 023001	3.6	5
18	Electromagnetically induced opacity for photon pairs. <i>Journal of Modern Optics</i> , 2002 , 49, 487-502	1.1	5
17	Pump depletion in parametric down-conversion with low pump energies. <i>Optics Letters</i> , 2020 , 45, 4264-4267	3.2	5
16	The phase sensitivity of a fully quantum three-mode nonlinear interferometer. <i>New Journal of Physics</i> , 2018 , 20, 123022	2.9	5
15	A short perspective on long crystals: broadband wave mixing and its application to ultrafast quantum optics. <i>Journal of Modern Optics</i> , 2007 , 54, 1939-1958	1.1	4
14	Determining complementary properties using weak-measurement: uncertainty, predictability, and disturbance. <i>New Journal of Physics</i> , 2018 , 20, 113034	2.9	4
13	A variable partially polarizing beam splitter. <i>Review of Scientific Instruments</i> , 2018 , 89, 023108	1.7	3
12	Theory of four-wave mixing of cylindrical vector beams in optical fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020 , 37, 1670	1.7	3
11	Arbitrary optical wave evolution with Fourier transforms and phase masks. <i>Optics Express</i> , 2021 , 29, 38441-38450	3.5	3
10	Super-critical phasematching for photon pair generation in structured light modes. <i>Optics Express</i> , 2016 , 24, 24495-24508	3.3	3
9	Photon-exchange effects on photon-pair transmission. <i>Physical Review A</i> , 2004 , 69,	2.6	2

8	High-dimension experimental tomography of a path-encoded photon quantum state. <i>Photonics Research</i> , 2019 , 7, A27	6	2
7	Focusing on factorability: space-time coupling in the generation of pure heralded single photons. <i>Journal of Modern Optics</i> , 2009 , 56, 179-189	1.1	1
6	Joint Photon Statistics of Photon-Subtracted Squeezed Light 2009 ,		1
5	Designing high-performance propagation-compressing spaceplates using thin-film multilayer stacks.. <i>Optics Express</i> , 2022 , 30, 2197-2205	3.3	1
4	Projecting onto any two-photon polarization state using linear optics. <i>New Journal of Physics</i> , 2018 , 20, 083033	2.9	0
3	Direct Measurement of the Photon's Spatial Wave Function. <i>Springer Series in Optical Sciences</i> , 2019 , 25-49	0.5	
2	Conditional coherence via phase-sensitive postselection 2003 , 509-510		
1	Theory and experiment for resource-efficient joint weak-measurement. <i>Quantum - the Open Journal for Quantum Science</i> , 5, 599		