

Jeff Lundeen

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2863512/jeff-lundeen-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Designing high-performance propagation-compressing spaceplates using thin-film multilayer stacks.. <i>Optics Express</i> , 2022 , 30, 2197-2205	3.3	1
60	Arbitrary optical wave evolution with Fourier transforms and phase masks. <i>Optics Express</i> , 2021 , 29, 38441-38450	3.3	3
59	An optic to replace space and its application towards ultra-thin imaging systems. <i>Nature Communications</i> , 2021 , 12, 3512	17.4	13
58	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
57	Pump depletion in parametric down-conversion with low pump energies. <i>Optics Letters</i> , 2020 , 45, 4264-4267	3.5	5
56	Approaching Quantum-Limited Metrology with Imperfect Detectors by Using Weak-Value Amplification. <i>Physical Review Letters</i> , 2020 , 125, 080501	7.4	11
55	Experimental simultaneous readout of the real and imaginary parts of the weak value. <i>Physical Review A</i> , 2019 , 100,	2.6	6
54	Direct Measurement of the Photon's Spatial Wave Function. <i>Springer Series in Optical Sciences</i> , 2019 , 25-49	0.5	
53	High-dimension experimental tomography of a path-encoded photon quantum state. <i>Photonics Research</i> , 2019 , 7, A27	6	2
52	A variable partially polarizing beam splitter. <i>Review of Scientific Instruments</i> , 2018 , 89, 023108	1.7	3
51	Experimental investigation of measurement-induced disturbance and time symmetry in quantum physics. <i>Physical Review A</i> , 2018 , 97,	2.6	8
50	Projecting onto any two-photon polarization state using linear optics. <i>New Journal of Physics</i> , 2018 , 20, 083033	2.9	0
49	Determining complementary properties using weak-measurement: uncertainty, predictability, and disturbance. <i>New Journal of Physics</i> , 2018 , 20, 113034	2.9	4
48	The phase sensitivity of a fully quantum three-mode nonlinear interferometer. <i>New Journal of Physics</i> , 2018 , 20, 123022	2.9	5
47	Weak Value Amplification Can Outperform Conventional Measurement in the Presence of Detector Saturation. <i>Physical Review Letters</i> , 2017 , 118, 070802	7.4	46
46	Using coherence to enhance function in chemical and biophysical systems. <i>Nature</i> , 2017 , 543, 647-656	50.4	367
45	Weak-value measurements can outperform conventional measurements. <i>Physica Scripta</i> , 2017 , 92, 023001	0.16	5

44	Determining Complementary Properties with Quantum Clones. <i>Physical Review Letters</i> , 2017 , 119, 050405	7.4	6
43	Direct Measurement of the Density Matrix of a Quantum System. <i>Physical Review Letters</i> , 2016 , 117, 120401	7.4	67
42	Super-critical phasematching for photon pair generation in structured light modes. <i>Optics Express</i> , 2016 , 24, 24495-24508	3.3	3
41	Observing Dirac's classical phase space analog to the quantum state. <i>Physical Review Letters</i> , 2014 , 112, 070405	7.4	63
40	Procedure for direct measurement of general quantum states using weak measurement. <i>Physical Review Letters</i> , 2012 , 108, 070402	7.4	166
39	Mapping coherence in measurement via full quantum tomography of a hybrid optical detector. <i>Nature Photonics</i> , 2012 , 6, 364-368	33.9	59
38	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
37	Direct measurement of the quantum wavefunction. <i>Nature</i> , 2011 , 474, 188-91	50.4	417
36	Nonlinearity in single photon detection: modeling and quantum tomography. <i>Optics Express</i> , 2011 , 19, 21305-12	3.3	33
35	Optimal experiment design for quantum state tomography: Fair, precise, and minimal tomography. <i>Physical Review A</i> , 2010 , 81,	2.6	28
34	Tailored photon-pair generation in optical fibers. <i>Physical Review Letters</i> , 2009 , 102, 123603	7.4	119
33	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
32	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
31	Optimal quantum phase estimation. <i>Physical Review Letters</i> , 2009 , 102, 040403	7.4	307
30	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
29	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
28	Measuring measurement: theory and practice. <i>New Journal of Physics</i> , 2009 , 11, 093038	2.9	54
27	A proposed testbed for detector tomography. <i>Journal of Modern Optics</i> , 2009 , 56, 432-441	1.1	25

26	Tomography of quantum detectors. <i>Nature Physics</i> , 2009 , 5, 27-30	16.2	197
25	Absolute efficiency estimation of photon-number-resolving detectors using twin beams. <i>Optics Express</i> , 2009 , 17, 4397-411	3.3	33
24	Photon pair generation in birefringent optical fibers. <i>Optics Express</i> , 2009 , 17, 23589-602	3.3	95
23	Quantum phase estimation with lossy interferometers. <i>Physical Review A</i> , 2009 , 80,	2.6	182
22	Joint Photon Statistics of Photon-Subtracted Squeezed Light 2009 ,		1
21	Heralded generation of ultrafast single photons in pure quantum States. <i>Physical Review Letters</i> , 2008 , 100, 133601	7.4	387
20	Conditional preparation of single photons using parametric downconversion: a recipe for purity. <i>New Journal of Physics</i> , 2008 , 10, 093011	2.9	88
19	Classical dispersion-cancellation interferometry. <i>Optics Express</i> , 2007 , 15, 8797-804	3.3	45
18	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
17	A double-slit "which-way" experiment on the complementarity-uncertainty debate. <i>New Journal of Physics</i> , 2007 , 9, 287-287	2.9	112
16	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
15	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
14	Comment on "Linear optics implementation of weak values in Hardy's paradox" <i>Physical Review A</i> , 2005 , 72,	2.6	6
13	Photon-exchange effects on photon-pair transmission. <i>Physical Review A</i> , 2004 , 69,	2.6	2
12	Super-resolving phase measurements with a multiphoton entangled state. <i>Nature</i> , 2004 , 429, 161-4	50.4	544
11	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
10	Experimental application of decoherence-free subspaces in an optical quantum-computing algorithm. <i>Physical Review Letters</i> , 2003 , 91, 187903	7.4	128
9	Conditional coherence via phase-sensitive postselection 2003 , 509-510		

8	Conditional-phase switch at the single-photon level. <i>Physical Review Letters</i> , 2002 , 89, 037904	7.4	60
7	Electromagnetically induced opacity for photon pairs. <i>Journal of Modern Optics</i> , 2002 , 49, 487-502	1.1	5
6	Quantum state preparation and conditional coherence. <i>Physical Review Letters</i> , 2002 , 88, 113601	7.4	78
5	Comment on "Manipulating the frequency-entangled states by an acoustic-optical modulator" <i>Physical Review A</i> , 2001 , 64,	2.6	10
4	Experimental observation of nonclassical effects on single-photon detection rates. <i>Physical Review A</i> , 2001 , 63,	2.6	27
3	Nonlinear optics with less than one photon. <i>Physical Review Letters</i> , 2001 , 87, 123603	7.4	37
2	Total reflection cannot occur with a negative delay time. <i>IEEE Journal of Quantum Electronics</i> , 2001 , 37, 794-799	2	29
1	Theory and experiment for resource-efficient joint weak-measurement. <i>Quantum - the Open Journal for Quantum Science</i> , 5, 599		