

Jeff Lundeen

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

5,955
citations

136950

32
h-index

138484

58
g-index

81
all docs

81
docs citations

81
times ranked

3748
citing authors

#	ARTICLE	IF	CITATIONS
1	Designing high-performance propagation-compressing spaceplates using thin-film multilayer stacks. Optics Express, 2022, 30, 2197.	3.4	9
2	To what extent can space be compressed? Bandwidth limits of spaceplates. Optica, 2022, 9, 738.	9.3	11
3	An optic to replace space and its application towards ultra-thin imaging systems. Nature Communications, 2021, 12, 3512.	12.8	52
4	Arbitrary optical wave evolution with Fourier transforms and phase masks. Optics Express, 2021, 29, 38441.	3.4	16
5	Experimental Demonstration of Conditional Weak Measurement and Its Use on Incompatible Observables. , 2021, , .		0
6	Theory and experiment for resource-efficient joint weak- measurement. , 2021, , .		0
7	Approaching Quantum-Limited Metrology with Imperfect Detectors by Using Weak-Value Amplification. Physical Review Letters, 2020, 125, 080501.	7.8	41
8	Theory of four-wave mixing of cylindrical vector beams in optical fibers. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1670.	2.1	10
9	Pump depletion in parametric down-conversion with low pump energies. Optics Letters, 2020, 45, 4264.	3.3	10
10	Experimental simultaneous readout of the real and imaginary parts of the weak value. Physical Review A, 2019, 100, .	2.5	15
11	Direct Measurement of the Photon's Spatial Wave Function. Springer Series in Optical Sciences, 2019, , 25-49.	0.7	0
12	High-dimension experimental tomography of a path-encoded photon quantum state. Photonics Research, 2019, 7, A27.	7.0	4
13	A variable partially polarizing beam splitter. Review of Scientific Instruments, 2018, 89, 023108.	1.3	8
14	Experimental investigation of measurement-induced disturbance and time symmetry in quantum physics. Physical Review A, 2018, 97, .	2.5	11
15	Projecting onto any two-photon polarization state using linear optics. New Journal of Physics, 2018, 20, 083033.	2.9	3
16	Determining complementary properties using weak-measurement: uncertainty, predictability, and disturbance. New Journal of Physics, 2018, 20, 113034.	2.9	8
17	The phase sensitivity of a fully quantum three-mode nonlinear interferometer. New Journal of Physics, 2018, 20, 123022.	2.9	7
18	Weak Value Amplification Can Outperform Conventional Measurement in the Presence of Detector Saturation. Physical Review Letters, 2017, 118, 070802.	7.8	76

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19	Using coherence to enhance function in chemical and biophysical systems. <i>Nature</i> , 2017, 543, 647-656.	27.8	477
20	Weak-value measurements can outperform conventional measurements. <i>Physica Scripta</i> , 2017, 92, 023001.	2.5	8
21	Determining Complementary Properties with Quantum Clones. <i>Physical Review Letters</i> , 2017, 119, 050405.	7.8	8
22	Super-critical phase-matching for photon pair generation in structured light modes. <i>Optics Express</i> , 2016, 24, 24495.	3.4	3
23	Direct Measurement of the Density Matrix of a Quantum System. <i>Physical Review Letters</i> , 2016, 117, 120401.	7.8	105
24	Measurement of Incompatible Observables via the Cloning of Quantum States. , 2016, , .		0
25	Directly Measuring the Density Matrix Using Weak Measurements. , 2016, , .		0
26	Towards the generation of entangled photon pairs using a tapered fiber coupler. , 2016, , .		0
27	Super-critical phase-matching in nonlinear optics. , 2015, , .		0
28	Observing Dirac's Classical Phase Space Analog to the Quantum State. <i>Physical Review Letters</i> , 2014, 112, 070405.	7.8	82
29	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.	3.4	7
30	Procedure for Direct Measurement of General Quantum States Using Weak Measurement. <i>Physical Review Letters</i> , 2012, 108, 070402.	7.8	223
31	Mapping coherence in measurement via full quantum tomography of a hybrid optical detector. <i>Nature Photonics</i> , 2012, 6, 364-368.	31.4	74
32	Direct measurement of the quantum wavefunction. <i>Nature</i> , 2011, 474, 188-191.	27.8	567
33	Nonlinearity in single photon detection: modeling and quantum tomography. <i>Optics Express</i> , 2011, 19, 21305.	3.4	37
34	Absolute Calibration of Optical Detectors Using Two-Mode Squeezed Light. , 2011, , .		0
35	Complete Characterization of Weak-Homodyne Photon-Number-Resolving Detectors: Applications to Non-Classical Photonic State Reconstructions. , 2010, , .		0
36	Optimal experiment design for quantum state tomography: Fair, precise, and minimal tomography. <i>Physical Review A</i> , 2010, 81, .	2.5	33

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37	Optimal Experiment Design for Minimal Tomography. , 2010, , .		0
38	Joint Photon Statistics of Photon-Subtracted Squeezed Light. , 2009, , .		1
39	Compact coupler designs for quantum optical circuits produced by direct UV writing. , 2009, , .		0
40	Tailored Photon-Pair Generation in Optical Fibers. Physical Review Letters, 2009, 102, 123603.	7.8	163
41	Experimental Joint Weak Measurement on a Photon Pair as a Probe of Hardy's Paradox. Physical Review Letters, 2009, 102, 020404.	7.8	299
42	Quantum-enhanced phase estimation in the presence of loss. , 2009, , .		0
43	Bridging Particle and Wave Sensitivity in a Configurable Detector of Positive Operator-Valued Measures. Physical Review Letters, 2009, 102, 080404.	7.8	31
44	Optimal Quantum Phase Estimation. Physical Review Letters, 2009, 102, 040403.	7.8	375
45	A characterization of the single-photon sensitivity of an electron multiplying charge-coupled device. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 114011.	1.5	37
46	Focusing on factorability: space-time coupling in the generation of pure heralded single photons. Journal of Modern Optics, 2009, 56, 179-189.	1.3	1
47	Photon Pair Generation via Spontaneous Four-Wave Mixing in Birefringent Optical Fibers. , 2009, , .		0
48	Measuring measurement: theory and practice. New Journal of Physics, 2009, 11, 093038.	2.9	73
49	A proposed testbed for detector tomography. Journal of Modern Optics, 2009, 56, 432-441.	1.3	31
50	Tomography of quantum detectors. Nature Physics, 2009, 5, 27-30.	16.7	267
51	Absolute efficiency estimation of photon-number-resolving detectors using twin beams. Optics Express, 2009, 17, 4397.	3.4	38
52	Photon pair generation in birefringent optical fibers. Optics Express, 2009, 17, 23589.	3.4	133
53	Quantum phase estimation with lossy interferometers. Physical Review A, 2009, 80, .	2.5	239
54	Full characterization of quantum optical detectors. , 2009, , .		0

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55	Photon Pair Generation in Birefringent Fiber: A Route to Better Photons. , 2009, , .		0
56	Heralded Generation of Ultrafast Single Photons in Pure Quantum States. Physical Review Letters, 2008, 100, 133601.	7.8	502
57	Conditional preparation of single photons using parametric downconversion: a recipe for purity. New Journal of Physics, 2008, 10, 093011.	2.9	105
58	Experimental production of pure single-photon states. , 2007, , .		0
59	Classical dispersion-cancellation interferometry. Optics Express, 2007, 15, 8797.	3.4	50
60	Photon pair-state preparation with tailored spectral properties by spontaneous four-wave mixing in photonic-crystal fiber. Optics Express, 2007, 15, 14870.	3.4	174
61	A double-slit "which-way"™ experiment on the complementarity"uncertainty debate. New Journal of Physics, 2007, 9, 287-287.	2.9	131
62	A short perspective on long crystals: broadband wave mixing and its application to ultrafast quantum optics. Journal of Modern Optics, 2007, 54, 1939-1958.	1.3	4
63	Practical measurement of joint weak values and their connection to the annihilation operator. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 334, 337-344.	2.1	62
64	Comment on "œLinear optics implementation of weak values in Hardy"™s paradox"œ. Physical Review A, 2005, 72, .	2.5	6
65	Experimental generation of entangled states by post-selected linear-optics operations. , 2004, , IMG5.		0
66	Photon-exchange effects on photon-pair transmission. Physical Review A, 2004, 69, .	2.5	2
67	Super-resolving phase measurements with a multiphoton entangled state. Nature, 2004, 429, 161-164.	27.8	720
68	Experimental realization of the quantum box problem. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 324, 125-131.	2.1	182
69	Quantum process tomography and the search for decoherence-free subspaces. , 2004, 5436, 223.		1
70	Two views of absorptive photon exchange effects. , 2004, , .		0
71	Experimental Application of Decoherence-Free Subspaces in an Optical Quantum-Computing Algorithm. Physical Review Letters, 2003, 91, 187903.	7.8	144
72	PRACTICAL CREATION AND DETECTION OF POLARIZATION BELL STATES USING PARAMETRIC DOWN-CONVERSION. , 2003, , .		0

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73	Conditional-Phase Switch at the Single-Photon Level. Physical Review Letters, 2002, 89, 037904.	7.8	70
74	Electromagnetically induced opacity for photon pairs. Journal of Modern Optics, 2002, 49, 487-502.	1.8	5
75	Quantum State Preparation and Conditional Coherence. Physical Review Letters, 2002, 88, 113601.	7.8	87
76	Total reflection cannot occur with a negative delay time. IEEE Journal of Quantum Electronics, 2001, 37, 794-799.	1.9	33
77	Comment on "Manipulating the frequency-entangled states by an acoustic-optical modulator". Physical Review A, 2001, 64, .	2.5	10
78	Experimental observation of nonclassical effects on single-photon detection rates. Physical Review A, 2001, 63, .	2.5	30
79	Nonlinear Optics with Less Than One Photon. Physical Review Letters, 2001, 87, 123603.	7.8	40
80	Theory and experiment for resource-efficient joint weak-measurement. Quantum - the Open Journal for Quantum Science, 0, 5, 599.	0.0	4