

Mark Beck

List of Publications by Year in descending order

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55
papers

3,367
citations

279798

23
h-index

243625

44
g-index

55
all docs

55
docs citations

55
times ranked

1563
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-consistent state and measurement tomography with fewer measurements. Physical Review A, 2021, 104, .	2.5	3
2	Pure Single Photons From Scalable Frequency Multiplexing. Physical Review Applied, 2020, 14, .	3.8	15
3	Loop state-preparation-and-measurement tomography of a two-qubit system. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 1811.	2.1	3
4	Experimental demonstration of loop state-preparation-and-measurement tomography. Physical Review A, 2017, 95, .	2.5	9
5	Detecting nonlocal correlated errors: Bob gets caught faking a Bell-inequality violation. , 2017, , .		0
6	Witnessing entanglement in an undergraduate laboratory. American Journal of Physics, 2016, 84, 87-94.	0.7	8
7	Quantum-state tomography of single-photon entangled states. Physical Review A, 2015, 92, .	2.5	5
8	Quantum optics experiments with single photons for undergraduate laboratories. Proceedings of SPIE, 2015, , .	0.8	6
9	Quantum optics laboratories for undergraduates. , 2014, , .		1
10	Exploring entanglement with the help of quantum state measurement. American Journal of Physics, 2014, 82, 962-971.	0.7	6
11	An FPGA-based module for multiphoton coincidence counting. Proceedings of SPIE, 2012, , .	0.8	6
12	Note: Scalable multiphoton coincidence-counting electronics. Review of Scientific Instruments, 2011, 82, 016102.	1.3	11
13	Scalable Multi-Photon Coincidence-Counting Electronics. , 2011, , .		1
14	Low-cost coincidence-counting electronics for undergraduate quantum optics. American Journal of Physics, 2009, 77, 667-670.	0.7	34
15	Comparing measurements of $g^{(2)}(0)$ performed with different coincidence detection techniques. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 2972.	2.1	70
16	Quantum Optics in the Undergraduate Teaching Laboratory. , 2007, , .		0
17	Low-Cost Coincidence-Counting Electronics for Quantum Optics. , 2007, , .		0
18	Quantum mysteries tested: An experiment implementing Hardy's test of local realism. American Journal of Physics, 2006, 74, 180-186.	0.7	28

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19	Comparing quantum and classical correlations in a quantum eraser. <i>Physical Review A</i> , 2005, 71, .	2.5	29
20	Observing the quantum behavior of light in an undergraduate laboratory. <i>American Journal of Physics</i> , 2004, 72, 1210-1219.	0.7	92
21	7 Experimental Quantum State Tomography of Optical Fields and Ultrafast Statistical Sampling. <i>Lecture Notes in Physics</i> , 2004, , 235-295.	0.7	18
22	Mode optimization for quantum-state tomography with array detectors. <i>Physical Review A</i> , 2003, 67, .	2.5	11
23	Simultaneous quantum state measurements using array detection. , 2003, , 301-302.		0
24	Joint Quantum Measurement Using Fourier-Transform Spectral Interferometry. <i>Springer Series in Chemical Physics</i> , 2003, , 235-237.	0.2	0
25	Joint quantum measurement using unbalanced array detection. , 2003, , 455-456.		0
26	Simultaneous quantum-state measurements using array detection. <i>Physical Review A</i> , 2001, 63, .	2.5	11
27	Joint Quantum Measurement Using Unbalanced Array Detection. <i>Physical Review Letters</i> , 2001, 87, 253601.	7.8	37
28	Quantum State Tomography with Array Detectors. <i>Physical Review Letters</i> , 2000, 84, 5748-5751.	7.8	41
29	Polarization correlations in pulsed, vertical-cavity, surface-emitting lasers. <i>Optics Express</i> , 2000, 7, 249.	3.4	5
30	Noise behavior of pulsed vertical-cavity surface-emitting lasers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999, 16, 2124.	2.1	9
31	Photon Statistics of Pulsed, Vertical-Cavity, Surface-Emitting Lasers. , 1999, , .		0
32	Sub-Poissonian photocurrent statistics: Theory and undergraduate experiment. <i>American Journal of Physics</i> , 1997, 65, 492-500.	0.7	13
33	<title>Time-frequency spectrograms of optical pulses</title>. , 1995, , .		1
34	Ultrashort pulsed squeezing by optical parametric amplification. <i>Physical Review A</i> , 1995, 52, 4202-4213.	2.5	42
35	Quadrature squeezing with ultrashort pulses in nonlinear-optical waveguides. <i>Optics Letters</i> , 1995, 20, 620.	3.3	74
36	Optical phase retrieval by phase-space tomography and fractional-order Fourier transforms. <i>Optics Letters</i> , 1995, 20, 1181.	3.3	143

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37	Ultrafast measurement of optical-field statistics by dc-balanced homodyne detection. Journal of the Optical Society of America B: Optical Physics, 1995, 12, 1801.	2.1	80
38	Complex wave-field reconstruction using phase-space tomography. Physical Review Letters, 1994, 72, 1137-1140.	7.8	313
39	Spatial and Temporal Optical Field Reconstruction Using Phase-Space Tomography. Springer Proceedings in Physics, 1994, , 245-253.	0.2	4
40	Quantum States and Number-Phase Uncertainty Relations Measured by Optical Homodyne Tomography. Acta Physica Polonica A, 1994, 86, 71-80.	0.5	13
41	Measurement of the Wigner distribution and the density matrix of a light mode using optical homodyne tomography: Application to squeezed states and the vacuum. Physical Review Letters, 1993, 70, 1244-1247.	7.8	1,339
42	Experimental determination of numberâ€“phase uncertainty relations. Optics Letters, 1993, 18, 1259.	3.3	56
43	Chronocyclic tomography for measuring the amplitude and phase structure of optical pulses. Optics Letters, 1993, 18, 2041.	3.3	122
44	Number-phase Uncertainty Relations. Optics and Photonics News, 1993, 4, 40.	0.5	0
45	Complete experimental characterization of the quantum state of a light mode via the Wigner function and the density matrix: application to quantum phase distributions of vacuum and squeezed-vacuum states. Physica Scripta, 1993, T48, 35-44.	2.5	148
46	Measurement of number-phase uncertainty relations of optical fields. Physical Review A, 1993, 48, 3159-3167.	2.5	176
47	Many-port homodyne detection of an optical phase. Physical Review A, 1993, 48, 4617-4628.	2.5	36
48	Experimental determination of quantum-phase distributions using optical homodyne tomography. Physical Review A, 1993, 48, R890-R893.	2.5	81
49	Sub-shot-noise correlation of total photon number using macroscopic twin pulses of light. Physical Review Letters, 1992, 69, 2650-2653.	7.8	73
50	The role of amplitude and phase shaping in the dispersive-pulse regime of a passively mode-locked dye laser. IEEE Journal of Quantum Electronics, 1992, 28, 2274-2284.	1.9	6
51	Group delay measurements of optical components near 800 nm. IEEE Journal of Quantum Electronics, 1991, 27, 2074-2081.	1.9	46
52	Measurement of group delay with high temporal and spectral resolution. Optics Letters, 1990, 15, 492.	3.3	74
53	Transition from quantum-noise-driven dynamics to deterministic dynamics in a multimode laser. Physical Review A, 1989, 40, 2410-2416.	2.5	18
54	Instabilities and chaos in a multimode, standing-wave, cw dye laser. Physical Review A, 1988, 38, 820-832.	2.5	41

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55	Strong-field dynamics of a multimode, standing-wave dye laser. Journal of the Optical Society of America B: Optical Physics, 1988, 5, 1588.	2.1	9