Mark Beck

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3364504/publications.pdf

Version: 2024-02-01



MARK RECK

#	Article	IF	CITATIONS
1	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
2	Complex wave-field reconstruction using phase-space tomography. Physical Review Letters, 1994, 72, 1137-1140.	7.8	313
3	Measurement of number-phase uncertainty relations of optical fields. Physical Review A, 1993, 48, 3159-3167.	2.5	176
4	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
5	Optical phase retrieval by phase-space tomography and fractional-order Fourier transforms. Optics Letters, 1995, 20, 1181.	3.3	143
6	Chronocyclic tomography for measuring the amplitude and phase structure of optical pulses. Optics Letters, 1993, 18, 2041.	3.3	122
7	Observing the quantum behavior of light in an undergraduate laboratory. American Journal of Physics, 2004, 72, 1210-1219.	0.7	92
8	Experimental determination of quantum-phase distributions using optical homodyne tomography. Physical Review A, 1993, 48, R890-R893.	2.5	81
9	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
10	Measurement of group delay with high temporal and spectral resolution. Optics Letters, 1990, 15, 492.	3.3	74
11	Quadrature squeezing with ultrashort pulses in nonlinear-optical waveguides. Optics Letters, 1995, 20, 620.	3.3	74
12	Sub-shot-noise correlation of total photon number using macroscopic twin pulses of light. Physical Review Letters, 1992, 69, 2650-2653.	7.8	73
13	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
14	Experimental determination of number–phase uncertainty relations. Optics Letters, 1993, 18, 1259.	3.3	56
15	Group delay measurements of optical components near 800 nm. IEEE Journal of Quantum Electronics, 1991, 27, 2074-2081.	1.9	46
16	Ultrashort pulsed squeezing by optical parametric amplification. Physical Review A, 1995, 52, 4202-4213.	2.5	42
17	Instabilities and chaos in a multimode, standing-wave, cw dye laser. Physical Review A, 1988, 38, 820-832.	2.5	41
18	Quantum State Tomography with Array Detectors. Physical Review Letters, 2000, 84, 5748-5751.	7.8	41

MARK BECK

#	Article	IF	CITATIONS
19	Joint Quantum Measurement Using Unbalanced Array Detection. Physical Review Letters, 2001, 87, 253601.	7.8	37
20	Many-port homodyne detection of an optical phase. Physical Review A, 1993, 48, 4617-4628.	2.5	36
21	Low-cost coincidence-counting electronics for undergraduate quantum optics. American Journal of Physics, 2009, 77, 667-670.	0.7	34
22	Comparing quantum and classical correlations in a quantum eraser. Physical Review A, 2005, 71, .	2.5	29
23	Quantum mysteries tested: An experiment implementing Hardy's test of local realism. American Journal of Physics, 2006, 74, 180-186.	0.7	28
24	Transition from quantum-noise-driven dynamics to deterministic dynamics in a multimode laser. Physical Review A, 1989, 40, 2410-2416.	2.5	18
25	7 Experimental Quantum State Tomography of Optical Fields and Ultrafast Statistical Sampling. Lecture Notes in Physics, 2004, , 235-295.	0.7	18
26	Pure Single Photons From Scalable Frequency Multiplexing. Physical Review Applied, 2020, 14, .	3.8	15
27	Sub-Poissonian photocurrent statistics: Theory and undergraduate experiment. American Journal of Physics, 1997, 65, 492-500.	0.7	13
28	Quantum States and Number-Phase Uncertainty Relations Measured by Optical Homodyne Tomography. Acta Physica Polonica A, 1994, 86, 71-80.	0.5	13
29	Simultaneous quantum-state measurements using array detection. Physical Review A, 2001, 63, .	2.5	11
30	Mode optimization for quantum-state tomography with array detectors. Physical Review A, 2003, 67, .	2.5	11
31	Note: Scalable multiphoton coincidence-counting electronics. Review of Scientific Instruments, 2011, 82, 016102.	1.3	11
32	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
33	Noise behavior of pulsed vertical-cavity surface-emitting lasers. Journal of the Optical Society of America B: Optical Physics, 1999, 16, 2124.	2.1	9
34	Experimental demonstration of loop state-preparation-and-measurement tomography. Physical Review A, 2017, 95, .	2.5	9
35	Witnessing entanglement in an undergraduate laboratory. American Journal of Physics, 2016, 84, 87-94.	0.7	8
36	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

Mark Beck

#	Article	IF	CITATIONS
37	An FPGA-based module for multiphoton coincidence counting. Proceedings of SPIE, 2012, , .	0.8	6
38	Exploring entanglement with the help of quantum state measurement. American Journal of Physics, 2014, 82, 962-971.	0.7	6
39	Quantum optics experiments with single photons for undergraduate laboratories. Proceedings of SPIE, 2015, , .	0.8	6
40	Polarization correlations in pulsed, vertical-cavity, surface-emitting lasers. Optics Express, 2000, 7, 249.	3.4	5
41	Quantum-state tomography of single-photon entangled states. Physical Review A, 2015, 92, .	2.5	5
42	Spatial and Temporal Optical Field Reconstruction Using Phase-Space Tomography. Springer Proceedings in Physics, 1994, , 245-253.	0.2	4
43	Self-consistent state and measurement tomography with fewer measurements. Physical Review A, 2021, 104, .	2.5	3
44	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
45	<title>Time-frequency spectrograms of optical pulses</title> ., 1995,,.		1
46	Quantum optics laboratories for undergraduates. , 2014, , .		1
47	Scalable Multi-Photon Coincidence-Counting Electronics. , 2011, , .		1
48	Number-phase Uncertainty Relations. Optics and Photonics News, 1993, 4, 40.	0.5	0
49	Quantum Optics in the Undergraduate Teaching Laboratory. , 2007, , .		0
50	Simultaneous quantum state measurements using array detection. , 2003, , 301-302.		0
51	Joint Quantum Measurement Using Fourier-Transform Spectral Interferometry. Springer Series in Chemical Physics, 2003, , 235-237.	0.2	0
52	Joint quantum measurement using unbalanced array detection. , 2003, , 455-456.		0
53	Low-Cost Coincidence-Counting Electronics for Quantum Optics. , 2007, , .		0
54	Photon Statistics of Pulsed, Vertical-Cavity, Surface-Emitting Lasers. , 1999, , .		0

#	Article	IF	CITATIONS
55	Detecting nonlocal correlated errors: Bob gets caught faking a Bell-inequality violation. , 2017, , .		Ο