

Todd Pittman

List of Publications by Year in descending order

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68
papers

4,824
citations

236925
25
h-index

161849
54
g-index

68
all docs

68
docs citations

68
times ranked

2852
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherence of quantum states after noiseless attenuation. Physical Review A, 2022, 105, .	2.5	3
2	Modifying quantum optical states by zero-photon subtraction. Physical Review A, 2022, 105, .	2.5	9
3	Heralding on the detection of zero photons. Physical Review A, 2021, 104, .	2.5	12
4	Nonlocal dispersion cancellation for three or more photons. Physical Review A, 2020, 102, .	2.5	2
5	Maximizing optical production of metastable xenon. Optics Express, 2020, 28, 24079.	3.4	1
6	Optical Pumping in Xenon Atoms. , 2020, , .		0
7	Optical attenuation without absorption. Physical Review A, 2019, 100, .	2.5	4
8	Optical Attenuation without Absorption. , 2019, , .		0
9	Transmission characteristics of optical nanofibers in metastable xenon. Applied Optics, 2019, 58, 6470.	1.8	2
10	Reduced decoherence using squeezing, amplification, and antisqueezing. Physical Review A, 2018, 98, .	2.5	8
11	Noiseless attenuation using an optical parametric amplifier. Physical Review A, 2017, 96, .	2.5	19
12	Nanofiber-segment ring resonator. Optics Letters, 2016, 41, 3683.	3.3	11
13	Optically enhanced production of metastable xenon. Optics Letters, 2016, 41, 4372.	3.3	11
14	Low-power cross-phase modulation in a metastable xenon-filled cavity for quantum-information applications. Physical Review A, 2015, 92, .	2.5	8
15	Ladder-type electromagnetically induced transparency using nanofiber-guided light in a warm atomic vapor. Physical Review A, 2015, 92, .	2.5	20
16	Feasibility of single-photon cross-phase modulation using metastable xenon in a high finesse cavity. Optics Communications, 2015, 337, 57-61.	2.1	7
17	Optical Nonlinearities Using Tapered Optical Fibers in Rubidium Vapor. , 2014, , .		0
18	Saturated absorption at nanowatt power levels using metastable xenon in a high-finesse optical cavity. Optics Express, 2014, 22, 22882.	3.4	5

#	ARTICLE	IF	CITATIONS
19	Saturation of atomic transitions using subwavelength diameter tapered optical fibers in rubidium vapor. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 1997.	2.1	13
20	Ultralow-power nonlinear optics using tapered optical fibers in noble gases. , 2014, , .		0
21	All-optical-switching demonstration using two-photon absorption and the Zeno effect. Physical Review A, 2013, 87, .	2.5	41
22	Ultralow-power nonlinear optics using tapered optical fibers in metastable xenon. Physical Review A, 2013, 88, .	2.5	18
23	Enhanced transmission for ultra-low-power nonlinear optics experiments using tapered optical fibers in Rubidium vapor. , 2013, , .		0
24	Time-bin-entangled photon holes. Physical Review A, 2012, 86, .	2.5	1
25	Observation of Low-Contrast All-Optical Switching in Si3N4 Microdisks Based on the Zeno Effect. , 2012, , .		0
26	Role of pump coherence in two-photon interferometry. Physical Review A, 2011, 83, .	2.5	4
27	Low Light-Level Two-Photon Absorption using Tapered Optical Fibers in Rubidium Vapor. , 2011, , .		0
28	Photonic Quantum Computing using Forced Fermion-Like Behavior. AIP Conference Proceedings, 2011, , .	0.4	1
29	Observation of low-contrast all-optical switching based on the Zeno effect. , 2011, , .		0
30	Observation of Two-Photon Absorption at Low Power Levels Using Tapered Optical Fibers in Rubidium Vapor. Physical Review Letters, 2010, 105, 173602.	7.8	96
31	Observation of two-photon absorption at low power levels using tapered optical fibers and rubidium vapor. , 2010, , .		1
32	Nonlinear transmission through a tapered fiber in rubidium vapor. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 267.	2.1	15
33	A Parametric Down-Conversion Source for Two-Photon Absorption Experiments. , 2008, , .		0
34	Investigation of a single-photon source based on quantum interference. New Journal of Physics, 2007, 9, 195-195.	2.9	12
35	Microcavities Using Holey Fibers. Journal of Lightwave Technology, 2007, 25, 3068-3071.	4.6	2
36	Bell's Inequality Tests and Quantum Communication with Entangled Photon Holes. , 2007, , .		0

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37	Generation of entangled photon holes using quantum interference. Physical Review A, 2006, 74, .	2.5	16
38	Single photon source using laser pulses and two-photon absorption. Physical Review A, 2006, 74, .	2.5	29
39	Heralding single photons from pulsed parametric down-conversion. Optics Communications, 2005, 246, 545-550.	2.1	162
40	Experimental demonstration of a quantum circuit using linear optics gates. Physical Review A, 2005, 71, .	2.5	27
41	Demonstration of quantum error correction using linear optics. Physical Review A, 2005, 71, .	2.5	63
42	Photon-number-resolving detection using time-multiplexing. Journal of Modern Optics, 2004, 51, 1499-1515.	1.3	137
43	Probabilistic quantum encoder for single-photon qubits. Physical Review A, 2004, 69, .	2.5	32
44	Quantum Computing Using Linear Optics and the Zeno Effect. AIP Conference Proceedings, 2004, , .	0.4	0
45	Quantum computing using single photons and the Zeno effect. Physical Review A, 2004, 70, .	2.5	171
46	Heralded two-photon entanglement from probabilistic quantum logic operations on multiple parametric down-conversion sources. IEEE Journal of Selected Topics in Quantum Electronics, 2003, 9, 1478-1482.	2.9	17
47	Experimental controlled-NOT logic gate for single photons in the coincidence basis. Physical Review A, 2003, 68, .	2.5	265
48	Violation of Bell's Inequality with Photons from Independent Sources. Physical Review Letters, 2003, 90, 240401.	7.8	64
49	Photon-number resolution using time-multiplexed single-photon detectors. Physical Review A, 2003, 68, .	2.5	285
50	Single photons on pseudodemand from stored parametric down-conversion. Physical Review A, 2002, 66, .	2.5	175
51	Cyclical quantum memory for photonic qubits. Physical Review A, 2002, 66, .	2.5	66
52	High-Fidelity Quantum Logic Operations Using Linear Optical Elements. Physical Review Letters, 2002, 89, 137901.	7.8	85
53	Demonstration of feed-forward control for linear optics quantum computation. Physical Review A, 2002, 66, .	2.5	53
54	Quantum relays and noise suppression using linear optics. Physical Review A, 2002, 66, .	2.5	108

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55	Demonstration of Nondeterministic Quantum Logic Operations Using Linear Optical Elements. Physical Review Letters, 2002, 88, 257902.	7.8	163
56	Quantum logic operations using linear optical elements. , 2002, , .		1
57	Probabilistic quantum logic operations using polarizing beam splitters. Physical Review A, 2001, 64, .	2.5	350
58	Quantum logic operations based on photon-exchange interactions. Physical Review A, 1999, 60, 917-936.	2.5	24
59	What we can learn about single photons in a two-photon interference experiment. Physical Review A, 1998, 57, 567-570.	2.5	54
60	Two-photon geometric optics. Physical Review A, 1996, 53, 2804-2815.	2.5	167
61	Postselection-free energy-time entanglement. Physical Review A, 1996, 54, R1-R4.	2.5	94
62	Can Two-Photon Interference be Considered the Interference of Two Photons?. Physical Review Letters, 1996, 77, 1917-1920.	7.8	198
63	On the use of double entanglement in four-photon experiments. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 204, 193-197.	2.1	5
64	Experimental tests of Bell's inequalities based on space-time and spin variables. Physical Review A, 1995, 51, 3495-3498.	2.5	29
65	Optical imaging by means of two-photon quantum entanglement. Physical Review A, 1995, 52, R3429-R3432.	2.5	1,642
66	EPR and Two-Photon Interference Experiments Using Type-II Parametric Downconversiona. Annals of the New York Academy of Sciences, 1995, 755, 40-60.	3.8	2
67	Two-Photon "Ghost" Image and Interference-Diffractiona. Annals of the New York Academy of Sciences, 1995, 755, 121-132.	3.8	3
68	It's a Good Time for Time-Bin Qubits. Physics Magazine, 0, 6, .	0.1	11