

Stanislav Straupe

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2303441/publications.pdf>

Version: 2024-02-01

45
papers

1,079
citations

394286

19
h-index

414303

32
g-index

45
all docs

45
docs citations

45
times ranked

966
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Estimation of Quantum State Properties from Classical Shadows. PRX Quantum, 2021, 2, .	3.5	29
2	Variational simulation of Schwinger's Hamiltonian with polarization qubits. Applied Physics Letters, 2021, 118, .	1.5	10
3	Dynamics of a spin qubit in an optical dipole trap. Physical Review A, 2021, 103, .	1.0	9
4	Benchmarking quantum tomography completeness and fidelity with machine learning. New Journal of Physics, 2021, 23, 103021.	1.2	10
5	Robust Architecture for Programmable Universal Unitaries. Physical Review Letters, 2020, 124, 010501.	2.9	51
6	Universal implementation of arbitrary unitary matrices by femtosecond laser written waveguide lattice. AIP Conference Proceedings, 2020, , .	0.3	2
7	Multiport universal unitary interferometer design. AIP Conference Proceedings, 2020, , .	0.3	0
8	Objective compressive quantum process tomography. Physical Review A, 2020, 101, .	1.0	22
9	Single atom movement with dynamic holographic optical tweezers. Laser Physics Letters, 2020, 17, 025203.	0.6	16
10	Improved heralded schemes to generate entangled states from single photons. Physical Review A, 2020, 102, .	1.0	12
11	Experimental neural network enhanced quantum tomography. Npj Quantum Information, 2020, 6, .	2.8	109
12	Experimental adaptive quantum state tomography based on rank-preserving transformations. Laser Physics Letters, 2020, 17, 105210.	0.6	1
13	Raman sideband cooling of a single atom in an optical dipole trap: Toward a theoretical optimum in a three-dimensional regime. Physical Review A, 2019, 99, .	1.0	6
14	Quantum technologies in Russia. Quantum Science and Technology, 2019, 4, 040501.	2.6	24
15	Quantum state engineering with twisted photons via adaptive shaping of the pump beam. Physical Review A, 2018, 98, .	1.0	49
16	Adaptive quantum tomography of high-dimensional bipartite systems. Physical Review A, 2018, 98, .	1.0	13
17	Reconfigurable Photonics on a Glass Chip. Physical Review Applied, 2018, 10, .	1.5	36
18	Spatial Bell-State Generation without Transverse Mode Subspace Postselection. Physical Review Letters, 2017, 118, 030503.	2.9	42

#	ARTICLE	IF	CITATIONS
19	Experimental adaptive process tomography. <i>Physical Review A</i> , 2017, 95, .	1.0	27
20	Single atoms coupled to a near-concentric cavity. <i>Physical Review A</i> , 2017, 96, .	1.0	6
21	Laser-written polarizing directional coupler with reduced interaction length. <i>Optics Letters</i> , 2017, 42, 4231.	1.7	11
22	Low-loss single-mode integrated waveguides in soda-lime glass. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	1.1	10
23	Adaptive quantum tomography. <i>JETP Letters</i> , 2016, 104, 510-522.	0.4	22
24	Experimental adaptive quantum tomography of two-qubit states. <i>Physical Review A</i> , 2016, 93, .	1.0	44
25	Projective filtering of the fundamental eigenmode from spatially multimode radiation. <i>Physical Review A</i> , 2015, 92, .	1.0	5
26	Tomography of spatial mode detectors. <i>Optics Express</i> , 2015, 23, 649.	1.7	8
27	Diffraction-limited Fabry-Pérot cavity in the near concentric regime. <i>New Journal of Physics</i> , 2014, 16, 103002.	1.2	15
28	Entanglement of biphoton-based qutrits and ququarts. <i>Laser Physics</i> , 2014, 24, 094007.	0.6	0
29	Self-calibrating tomography for angular Schmidt modes in spontaneous parametric down-conversion. <i>Physical Review A</i> , 2013, 87, .	1.0	11
30	An optical cavity with a strongly focused mode. , 2013, , .		0
31	Schmidt-like coherent mode decomposition and spatial intensity correlations of thermal light. <i>New Journal of Physics</i> , 2013, 15, 073016.	1.2	18
32	Experimental adaptive Bayesian tomography. <i>Physical Review A</i> , 2013, 87, .	1.0	70
33	Entanglement of biphoton states: qutrits and ququarts. <i>New Journal of Physics</i> , 2011, 13, 083004.	1.2	26
34	Angular Schmidt modes in spontaneous parametric down-conversion. <i>Physical Review A</i> , 2011, 83, .	1.0	63
35	The problem of preparing entangled pairs of polarization qubits in the frequency-nondegenerate regime. <i>Journal of Experimental and Theoretical Physics</i> , 2010, 110, 185-192.	0.2	5
36	On teleportation in a system of identical particles. <i>JETP Letters</i> , 2010, 92, 189-192.	0.4	4

#	ARTICLE	IF	CITATIONS
37	The quest for higher dimensionality. Nature Photonics, 2010, 4, 585-586.	15.6	27
38	Quantum state engineering with ququarts: Application for deterministic QKD protocol. Europhysics Letters, 2009, 87, 10008.	0.7	11
39	Spontaneous parametric down-conversion: Anisotropical and anomalously strong narrowing of biphoton momentum correlation distributions. Physical Review A, 2008, 77, .	1.0	57
40	Anisotropically high entanglement of biphotons. , 2007, , .		0
41	Anisotropically and High Entanglement of Biphoton States Generated in Spontaneous Parametric Down-Conversion. Physical Review Letters, 2007, 99, 063901.	2.9	84
42	Realization of Four-Level Qudits Using Biphotons. Physical Review Letters, 2006, 97, 023602.	2.9	66
43	<title>Quantum tomography of the optical four level states</title>. , 2006, , .		1
44	Polarization states of four-dimensional systems based on biphotons. Physical Review A, 2006, 73, .	1.0	47
45	Ququarts based on biphotons. , 2006, , .		0