

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 neural network enhanced quantum tomography. Npj Quantum Information, 2020, 6, .	2.8	109
2	Anisotropically and High Entanglement of Biphoton States Generated in Spontaneous Parametric Down-Conversion. Physical Review Letters, 2007, 99, 063901.	2.9	84
3	Experimental adaptive Bayesian tomography. Physical Review A, 2013, 87, .	1.0	70
4	Realization of Four-Level Qudits Using Biphotons. Physical Review Letters, 2006, 97, 023602.	2.9	66
5	Angular Schmidt modes in spontaneous parametric down-conversion. Physical Review A, 2011, 83, .	1.0	63
6	Spontaneous parametric down-conversion: Anisotropical and anomalously strong narrowing of biphoton momentum correlation distributions. Physical Review A, 2008, 77, .	1.0	57
7	Robust Architecture for Programmable Universal Unitaries. Physical Review Letters, 2020, 124, 010501.	2.9	51
8	Quantum state engineering with twisted photons via adaptive shaping of the pump beam. Physical Review A, 2018, 98, .	1.0	49
9	Polarization states of four-dimensional systems based on biphotons. Physical Review A, 2006, 73, .	1.0	47
10	Experimental adaptive quantum tomography of two-qubit states. Physical Review A, 2016, 93, .	1.0	44
11	Spatial Bell-State Generation without Transverse Mode Subspace Postselection. Physical Review Letters, 2017, 118, 030503.	2.9	42
12	Reconfigurable Photonics on a Glass Chip. Physical Review Applied, 2018, 10, .	1.5	36
13	Experimental Estimation of Quantum State Properties from Classical Shadows. PRX Quantum, 2021, 2, .	3.5	29
14	The quest for higher dimensionality. Nature Photonics, 2010, 4, 585-586.	15.6	27
15	Experimental adaptive process tomography. Physical Review A, 2017, 95, .	1.0	27
16	Entanglement of biphoton states: qutrits and ququarts. New Journal of Physics, 2011, 13, 083004.	1.2	26
17	Quantum technologies in Russia. Quantum Science and Technology, 2019, 4, 040501.	2.6	24
18	Adaptive quantum tomography. JETP Letters, 2016, 104, 510-522.	0.4	22

#	ARTICLE	IF	CITATIONS
19	Objective compressive quantum process tomography. <i>Physical Review A</i> , 2020, 101, .	1.0	22
20	Schmidt-like coherent mode decomposition and spatial intensity correlations of thermal light. <i>New Journal of Physics</i> , 2013, 15, 073016.	1.2	18
21	Single atom movement with dynamic holographic optical tweezers. <i>Laser Physics Letters</i> , 2020, 17, 025203.	0.6	16
22	Diffraction-limited Fabry-Pérot cavity in the near concentric regime. <i>New Journal of Physics</i> , 2014, 16, 103002.	1.2	15
23	Adaptive quantum tomography of high-dimensional bipartite systems. <i>Physical Review A</i> , 2018, 98, .	1.0	13
24	Improved heralded schemes to generate entangled states from single photons. <i>Physical Review A</i> , 2020, 102, .	1.0	12
25	Quantum state engineering with ququarts: Application for deterministic QKD protocol. <i>Europhysics Letters</i> , 2009, 87, 10008.	0.7	11
26	Self-calibrating tomography for angular Schmidt modes in spontaneous parametric down-conversion. <i>Physical Review A</i> , 2013, 87, .	1.0	11
27	Laser-written polarizing directional coupler with reduced interaction length. <i>Optics Letters</i> , 2017, 42, 4231.	1.7	11
28	Low-loss single-mode integrated waveguides in soda-lime glass. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	1.1	10
29	Variational simulation of Schwinger's Hamiltonian with polarization qubits. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	10
30	Benchmarking quantum tomography completeness and fidelity with machine learning. <i>New Journal of Physics</i> , 2021, 23, 103021.	1.2	10
31	Dynamics of a spin qubit in an optical dipole trap. <i>Physical Review A</i> , 2021, 103, .	1.0	9
32	Tomography of spatial mode detectors. <i>Optics Express</i> , 2015, 23, 649.	1.7	8
33	Single atoms coupled to a near-concentric cavity. <i>Physical Review A</i> , 2017, 96, .	1.0	6
34	Raman sideband cooling of a single atom in an optical dipole trap: Toward a theoretical optimum in a three-dimensional regime. <i>Physical Review A</i> , 2019, 99, .	1.0	6
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	Projective filtering of the fundamental eigenmode from spatially multimode radiation. <i>Physical Review A</i> , 2015, 92, .	1.0	5

#	ARTICLE	IF	CITATIONS
37	On teleportation in a system of identical particles. JETP Letters, 2010, 92, 189-192.	0.4	4
38	Universal implementation of arbitrary unitary matrices by femtosecond laser written waveguide lattice. AIP Conference Proceedings, 2020, , .	0.3	2
39	<title>Quantum tomography of the optical four level states</title>. , 2006, , .		1
40	Experimental adaptive quantum state tomography based on rank-preserving transformations. Laser Physics Letters, 2020, 17, 105210.	0.6	1
41	Ququarts based on biphotons. , 2006, , .		0
42	Anisotropically high entanglement of biphotons. , 2007, , .		0
43	An optical cavity with a strongly focused mode. , 2013, , .		0
44	Entanglement of biphoton-based qutrits and ququarts. Laser Physics, 2014, 24, 094007.	0.6	0
45	Multiport universal unitary interferometer design. AIP Conference Proceedings, 2020, , .	0.3	0