Ryo Okamoto

List of Publications by Year
in descending order

72 papers	1,973 citations	394421 19 h-index	243625 44 g-index

72 all docs	72 docs citations	72 times ranked	1581 citing authors

#	Article	IF	Citations
1	Beating the Standard Quantum Limit with Four-Entangled Photons. Science, 2007, 316, 726-729.	12.6	610
2	An entanglement-enhanced microscope. Nature Communications, 2013, 4, 2426.	12.8	219
3	Demonstration of an Optical Quantum Controlled-NOT Gate without Path Interference. Physical Review Letters, 2005, 95, 210506.	7.8	200
4	Scalable Spatial Superresolution Using Entangled Photons. Physical Review Letters, 2014, 112, 223602.	7.8	80
5	Beating the standard quantum limit: phase super-sensitivity ofN-photon interferometers. New Journal of Physics, 2008, 10, 073033.	2.9	74
6	An Entanglement Filter. Science, 2009, 323, 483-485.	12.6	72
7	Realization of a Knill-Laflamme-Milburn controlled-NOT photonic quantum circuit combining effective optical nonlinearities. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10067-10071.	7.1	70
8	Experimental Demonstration of Adaptive Quantum State Estimation. Physical Review Letters, 2012, 109, 130404.	7.8	63
9	Noncollinear parametric fluorescence by chirped quasi-phase matching for monocycle temporal entanglement. Optics Express, 2012, 20, 25228.	3.4	55
10	0.54 Î¼m resolution two-photon interference with dispersion cancellation for quantum optical coherence tomography. Scientific Reports, 2016, 5, 18042.	3.3	49
11	Implementation of a quantum controlled-SWAP gate with photonic circuits. Scientific Reports, 2017, 7, 45353.	3.3	47
12	Quantum interference fringes beating the diffraction limit. Optics Express, 2007, 15, 14244.	3.4	43
13	Highly indistinguishable heralded single-photon sources using parametric down conversion. Optics Express, 2012, 20, 15275.	3.4	29
14	Quantum Fourier-Transform Infrared Spectroscopy for Complex Transmittance Measurements. Physical Review Applied, 2021, 15, .	3.8	28
15	Dispersion cancellation in high-resolution two-photon interference. Physical Review A, 2013, 88, .	2.5	27
16	Generation of broadband spontaneous parametric fluorescence using multiple bulk nonlinear crystals. Optics Express, 2012, 20, 13977.	3.4	26
17	High-yield single-photon source using gated spontaneous parametric downconversion. Applied Optics, 2004, 43, 5708.	2.1	23
18	Tailoring two-photon interference with phase dispersion. Physical Review A, 2006, 74, .	2.5	19

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19	Realization of multiplexing of heralded single photon sources using photon number resolving detectors. Optics Express, 2016, 24, 27288.	3.4	19
20	Experimental demonstration of a quantum shutter closing two slits simultaneously. Scientific Reports, 2016, 6, 35161.	3.3	19
21	Quantum Fourier-transform infrared spectroscopy in the fingerprint region. Optics Express, 2022, 30, 22624.	3.4	19
22	Color single-pixel digital holography with a phase-encoded reference wave. Applied Optics, 2019, 58, G149.	1.8	16
23	Experimental demonstration of adaptive quantum state estimation for single photonic qubits. Physical Review A, 2017, 96, .	2.5	14
24	Efficient generation of ultra-broadband parametric fluorescence using chirped quasi-phase-matched waveguide devices. Optics Express, 2021, 29, 21615.	3.4	14
25	Nonlocal Position Changes of a Photon Revealed by Quantum Routers. Scientific Reports, 2018, 8, 7730.	3.3	12
26	Frequency correlated photon generation at telecom band using silicon nitride ring cavities. Optics Express, 2021, 29, 4821.	3.4	12
27	Phase shift spectra of a fiberâ€“microsphere system at the single photon level. Optics Express, 2011, 19, 2278.	3.4	11
28	Broadband generation of photon-pairs from a CMOS compatible device. Applied Physics Letters, 2020, 116, .	3.3	10
29	Wavelength variable generation and detection of photon pairs in visible and mid-infrared regions via spontaneous parametric downconversion. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 1934.	2.1	10
30	Precision limit for simultaneous phase and transmittance estimation with phase-shifting interferometry. Physical Review A, 2021, 104, .	2.5	10
31	Loss tolerant quantum absorption measurement. New Journal of Physics, 2020, 22, 103016.	2.9	10
32	Investigation of the Performance of an Ultralow-Dark-Count Superconducting Nanowire Single-Photon Detector. Japanese Journal of Applied Physics, 2013, 52, 102801.	1.5	9
33	Anomaly detection in reconstructed quantum states using a machine-learning technique. Physical Review A, 2014, 89, .	2.5	9
34	Analysis of experimental error sources in a linear-optics quantum gate. New Journal of Physics, 2010, 12, 043053.	2.9	8
35	Detailed analysis of a single-photon source using gated spontaneous parametric downconversion. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 2393.	2.1	5
36	An on-chip photon-pair source with negligible two photon absorption. Applied Physics Express, 2019, 12, 022006.	2.4	5

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37	Spectral dependence of ultra-low dark count superconducting single photon detector for the evaluation of broadband parametric fluorescence. , 2012, , .		4
38	Quantum-state anomaly detection for arbitrary errors using a machine-learning technique. Physical Review A, 2016, 94, .	2.5	4
39	Unified integration scheme using an Nâ€‰Ã—â€‰N active switch for efficient generation of a multi-photon parallel state. Optics Express, 2020, 28, 17490.	3.4	3
40	Direct and efficient verification of entanglement between two multimodeâ€“multiphoton systems. Optica, 2020, 7, 1517.	9.3	3
41	ANALYSIS OF AN EXPERIMENTAL QUANTUM LOGIC GATE BY COMPLEMENTARY CLASSICAL OPERATIONS. Modern Physics Letters A, 2006, 21, 1837-1850.	1.2	2
42	Serial-parallel conversion for single photons with heralding signals. Optics Express, 2017, 25, 32443.	3.4	2
43	Adaptive quantum state estimation for dynamic quantum states. Physical Review A, 2020, 102, .	2.5	2
44	Single-photon source using parametric down conversion. , 2004, , .		1
45	Quantum lithography under imperfect conditions: effects of loss and dephasing on two-photon interference fringes. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 422.	2.1	1
46	Collinear ultra-broadband parametric fluorescence generated from 10%-chirped quasi phase matched device. , 2011, , .		1
47	Spectral properties of ultra-broadband entangled photons generated from chirped-MgSLT crystal towards monocycle entanglement generation. , 2013, , .		1
48	Realization of high-speed adaptive quantum state estimation. Japanese Journal of Applied Physics, 2019, 58, 072001.	1.5	1
49	Ultrabroadband spontaneous parametric fluorescence in 800 nm region toward ultrahigh-resolution quantum optical coherence tomography. , 2014, , .		1
50	Phase-shifting interferometry for multidimensional incoherent digital holography and toward ultimately low light sensing. , 2021, , .		1
51	A single photon source using parametric down conversion. , 2003, , .		0
52	Demonstration of controlled-NOT gate using linear optics. , 2005, , .		0
53	Analysis of errors in an optical Controlled-NOT gate with a high-precision testing bed. , 2007, , .		0
54	Experimental realization of an optical entanglement filter. , 2009, , .		0

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55	Analysis of errors in an optical controlled-NOT gate. , 2009, , .		0
56	How can we minimize errors in a linear-optics quantum gate?. , 2010, , .		0
57	Generation of broadband spontaneous parametric fluorescence and its application to quantum optical coherence tomography. Proceedings of SPIE, 2011, , .	0.8	0
58	Optical quantum circuit combining tailored optical nonlinearities. , 2011, , .		0
59	Adaptive quantum state estimation of mixed states using photons. , 2013, , .		0
60	Sum-frequency-photon generation from an entangled photon pair. , 2013, , .		0
61	Broadband frequency correlated photon pairs using a chirped-QPM device. , 2013, , .		0
62	High-resolution quantum optical coherence tomography by broadband parametric fluorescence. , 2013, , .		0
63	Experimental demonstration of adaptive quantum state estimation. , 2013, , .		0
64	Scalable Spatial Super-Resolution using Entangled Photons. , 2014, , .		0
65	Realization of multiplexing of heralded single photon sources using cascaded on-off detectors. , 2017, , .		0
66	Adaptive quantum state estimation for dynamic quantum states. , 2017, , .		0
67	One quantum shutter can close two slits simultaneously. , 2017, , .		0
68	Highly Efficient Ultra-Broadband Entangled Photon-Pair Generation using a Chirped PPSLT Ridge Waveguide. , 2019, , .		0
69	LOCALLY OBSERVABLE CONDITIONS FOR THE SUCCESSFUL IMPLEMENTATION OF ENTANGLING MULTI-QUBIT QUANTUM GATES. , 2006, , .		0
70	Ultrahigh-Resolution Optical Coherence Tomography Using Quantum Entangled Photon Pairs. The Review of Laser Engineering, 2016, 44, 663.	0.0	0
71	Highly Efficient Broadband Frequency Entangled Photon Pair Sources for Optical Quantum Applications. , 2020, , .		0
72	Multidimensional digital holographic microscopy based on computational coherent superposition for coherent and incoherent light sensing. , 2020, , .		0