

# Ryosuke Shimizu

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

1,542  
citations

361413

20  
h-index

302126

39  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1197  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of the Photonic de Broglie Wavelength of Entangled Photon Pairs Generated by Spontaneous Parametric Down-Conversion. <i>Physical Review Letters</i> , 2002, 89, 213601.	7.8	185
2	Generation of ultraviolet entangled photons in a semiconductor. <i>Nature</i> , 2004, 431, 167-170.	27.8	174
3	Widely tunable single photon source with high purity at telecom wavelength. <i>Optics Express</i> , 2013, 21, 10659.	3.4	127
4	Observation of optical-fibre Kerr nonlinearity at the single-photon level. <i>Nature Photonics</i> , 2009, 3, 95-98.	31.4	125
5	Pulsed Sagnac polarization-entangled photon source with a PPKTP crystal at telecom wavelength. <i>Optics Express</i> , 2014, 22, 11498.	3.4	100
6	Highly efficient entanglement swapping and teleportation at telecom wavelength. <i>Scientific Reports</i> , 2015, 5, 9333.	3.3	61
7	Photon Polarization Entanglement Induced by Biexciton: Experimental Evidence for Violation of Bell's Inequality. <i>Physical Review Letters</i> , 2007, 98, 140503.	7.8	46
8	Spectrally resolved Hong-Ou-Mandel interference between independent photon sources. <i>Optics Express</i> , 2015, 23, 28836.	3.4	45
9	Free-space optical channel estimation for physical layer security. <i>Optics Express</i> , 2016, 24, 8940.	3.4	43
10	Simple method of generating and distributing frequency-entangled qudits. <i>Quantum Science and Technology</i> , 2016, 1, 015004.	5.8	40
11	Quantum diffraction and interference of spatially correlated photon pairs generated by spontaneous parametric down-conversion. <i>Physical Review A</i> , 2003, 67, .	2.5	37
12	High-flux and broadband biphoton sources with controlled frequency entanglement. <i>Optics Express</i> , 2009, 17, 16385.	3.4	35
13	Nonclassical interference between independent intrinsically pure single photons at telecommunication wavelength. <i>Physical Review A</i> , 2013, 87, .	2.5	35
14	Extended Wiener-Khinchin theorem for quantum spectral analysis. <i>Optica</i> , 2018, 5, 93.	9.3	34
15	High-visibility nonclassical interference between intrinsically pure heralded single photons and photons from a weak coherent field. <i>Physical Review A</i> , 2011, 83, .	2.5	32
16	Efficient generation of twin photons at telecom wavelengths with 2.5-GHz repetition-rate-tunable comb laser. <i>Scientific Reports</i> , 2014, 4, 7468.	3.3	32
17	Entangled photon generation in two-period quasi-phase-matched parametric down-conversion. <i>Optics Express</i> , 2012, 20, 5508.	3.4	30
18	Direct generation of frequency-bin entangled photons via two-period quasi-phase-matched parametric downconversion. <i>Optics Express</i> , 2019, 27, 1416.	3.4	29

#	ARTICLE	IF	CITATIONS
19	Quantum diffraction and interference of spatially correlated photon pairs and its Fourier-optical analysis. <i>Physical Review A</i> , 2006, 74, .	2.5	28
20	Free-space optical wiretap channel and experimental secret key agreement in 78 km terrestrial link. <i>Optics Express</i> , 2018, 26, 19513.	3.4	21
21	Four-photon quantum interferometry at a telecom wavelength. <i>Physical Review A</i> , 2012, 86, .	2.5	20
22	Photon pair sources with controlled frequency correlation. <i>Progress in Informatics</i> , 2011, , 19.	0.2	20
23	Detection-dependent six-photon Holland-Burnett state interference. <i>Scientific Reports</i> , 2016, 6, 36914.	3.3	19
24	Time-Frequency Duality of Biphotons for Quantum Optical Synthesis. <i>Physical Review Applied</i> , 2018, 10, .	3.8	19
25	Efficient detection of an ultra-bright single-photon source using superconducting nanowire single-photon detectors. <i>Optics Communications</i> , 2015, 336, 47-54.	2.1	18
26	Theoretical Investigation of a Spectrally Pure-State Generation from Isomorphs of KDP Crystal at Near-Infrared and Telecom Wavelengths. <i>Physical Review Applied</i> , 2019, 11, .	3.8	18
27	All-optical phase modulations in a silicon wire waveguide at ultralow light levels. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	17
28	Free space optical secret key agreement. <i>Optics Express</i> , 2018, 26, 23305.	3.4	14
29	Quantum manipulation of biphoton spectral distributions in a 2D frequency space toward arbitrary shaping of a biphoton wave packet. <i>Optics Express</i> , 2018, 26, 21153.	3.4	14
30	Spectral properties of broadband biphotons generated from PPMgSLT under a type-II phase-matching condition. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 550.	2.1	13
31	Spectrally uncorrelated biphotons generated from “the family of BBO crystal”, <i>Quantum Engineering</i> , 2020, 2, e38.	2.5	13
32	Mid-infrared spectrally-uncorrelated biphotons generation from doped PPLN: a theoretical investigation. <i>Optics Express</i> , 2021, 29, 256.	3.4	13
33	Quantum optical synthesis in 2D time–frequency space. <i>APL Photonics</i> , 2021, 6, 086104.	5.7	11
34	Lossless all-optical phase gate using a polarization-division Sagnac interferometer applicable to a waveguide-type Kerr medium. <i>Applied Physics Letters</i> , 2007, 91, 171119.	3.3	10
35	Entangled-state generation with an intrinsically pure single-photon source and a weak coherent source. <i>Physical Review A</i> , 2013, 88, .	2.5	10
36	Generation of pseudo-sunlight via quantum entangled photons and the interaction with molecules. <i>Physical Review Research</i> , 2020, 2, .	3.6	10

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37	800-nm Band Cross-Polarized Photon Pair Source Using Type-II Parametric Down-Conversion in Periodically Poled Lithium Niobate. Japanese Journal of Applied Physics, 2007, 46, L1064-L1067.	1.5	8
38	Monotonic quantum-to-classical transition enabled by positively correlated biphotons. Physical Review A, 2017, 95, .	2.5	8
39	Quantum photonic network and physical layer security. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160243.	3.4	6
40	Ultrafast measurement of a single-photon wave packet using an optical Kerr gate. Optics Express, 2022, 30, 4999.	3.4	6
41	Up-conversion dynamics for temporally entangled two-photon pulses. Physical Review A, 2011, 83, .	2.5	5
42	Group key agreement over free-space optical links. OSA Continuum, 2020, 3, 2525.	1.8	4
43	Multimode Theory of Up-Conversion of Two Photons. Journal of the Physical Society of Japan, 2009, 78, 054401.	1.6	3
44	Generation of Cross-Polarized Photon Pairs via Type-II Third-Order Quasi-Phase Matched Parametric Down-Conversion. Japanese Journal of Applied Physics, 2009, 48, 050205.	1.5	2
45	Efficient Up-Conversion Detection of 1550 nm Photons Using Bulk Periodically-Poled LiNbO3. Japanese Journal of Applied Physics, 2010, 49, 040213.	1.5	1
46	Free-space optical secret key agreement with post-selection based on channel state information. , 2019, , .		1
47	Generation of entangled photons via biexciton-resonant hyper-parametric scattering. , 2005, 5722, 15.		0
48	Widely-tunable, spectrally pure, high efficient photon pairs generation at telecom wavelength. , 2013, , .		0
49	Pulsed Sagnac polarization-entangled photon source with a PPKTP crystal at telecom wavelength. , 2014, , .		0
50	Efficient Generation of Twin Photons at Telecom Wavelengths with 10 GHz Repetition-Rate-Tunable Comb Laser. , 2015, , .		0
51	Quantum interferometric spectroscopy. , 2018, , .		0