

Akira Furusawa

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148
papers

10,061
citations

46
h-index

99
g-index

215
ext. papers

11,991
ext. citations

7
avg. IF

6.24
L-index

#	Paper	IF	Citations
148	Unconditional quantum teleportation. <i>Science</i> , 1998 , 282, 706-9	33.3	2086
147	Photonic quantum technologies. <i>Nature Photonics</i> , 2009 , 3, 687-695	33.9	1288
146	Detecting genuine multipartite continuous-variable entanglement. <i>Physical Review A</i> , 2003 , 67,	2.6	313
145	Advances in quantum teleportation. <i>Nature Photonics</i> , 2015 , 9, 641-652	33.9	297
144	Ultra-large-scale continuous-variable cluster states multiplexed in the time domain. <i>Nature Photonics</i> , 2013 , 7, 982-986	33.9	289
143	Demonstration of a quantum teleportation network for continuous variables. <i>Nature</i> , 2004 , 431, 430-3	50.4	233
142	Photon subtracted squeezed states generated with periodically poled KTiOPO(4). <i>Optics Express</i> , 2007 , 15, 3568-74	3.3	211
141	Entanglement distillation from Gaussian input states. <i>Nature Photonics</i> , 2010 , 4, 178-181	33.9	202
140	Experimental creation of a fully inseparable tripartite continuous-variable state. <i>Physical Review Letters</i> , 2003 , 91, 080404	7.4	202
139	Cavity QED with high-Q whispering gallery modes. <i>Physical Review A</i> , 1998 , 57, R2293-R2296	2.6	201
138	Hybrid discrete- and continuous-variable quantum information. <i>Nature Physics</i> , 2015 , 11, 713-719	16.2	196
137	Observation of -9 dB quadrature squeezing with improvement of phase stability in homodyne measurement. <i>Optics Express</i> , 2007 , 15, 4321-7	3.3	189
136	Storage and retrieval of a squeezed vacuum. <i>Physical Review Letters</i> , 2008 , 100, 093601	7.4	184
135	High-fidelity teleportation beyond the no-cloning limit and entanglement swapping for continuous variables. <i>Physical Review Letters</i> , 2005 , 94, 220502	7.4	169
134	Generation of large-amplitude coherent-state superposition via ancilla-assisted photon subtraction. <i>Physical Review Letters</i> , 2008 , 101, 233605	7.4	156
133	Deterministic quantum teleportation of photonic quantum bits by a hybrid technique. <i>Nature</i> , 2013 , 500, 315-8	50.4	150
132	Experimental generation of four-mode continuous-variable cluster states. <i>Physical Review A</i> , 2008 , 78,	2.6	150

131	Quantum-enhanced optical-phase tracking. <i>Science</i> , 2012 , 337, 1514-7	33.3	148
130	Teleportation of nonclassical wave packets of light. <i>Science</i> , 2011 , 332, 330-3	33.3	130
129	Generation of time-domain-multiplexed two-dimensional cluster state. <i>Science</i> , 2019 , 366, 373-376	33.3	124
128	Invited Article: Generation of one-million-mode continuous-variable cluster state by unlimited time-domain multiplexing. <i>APL Photonics</i> , 2016 , 1, 060801	5.2	119
127	2011 ,		110
126	Demonstration of unconditional one-way quantum computations for continuous variables. <i>Physical Review Letters</i> , 2011 , 106, 240504	7.4	98
125	Generating superposition of up-to three photons for continuous variable quantum information processing. <i>Optics Express</i> , 2013 , 21, 5529-35	3.3	95
124	Quantum error correction beyond qubits. <i>Nature Physics</i> , 2009 , 5, 541-546	16.2	85
123	Demonstration of a quantum nondemolition sum gate. <i>Physical Review Letters</i> , 2008 , 101, 250501	7.4	80
122	7dB quadrature squeezing at 860nm with periodically poled KTiOPO4. <i>Applied Physics Letters</i> , 2006 , 89, 061116	3.4	75
121	Continuous-variable entanglement on a chip. <i>Nature Photonics</i> , 2015 , 9, 316-319	33.9	73
120	Fidelity and information in the quantum teleportation of continuous variables. <i>Physical Review A</i> , 2000 , 62,	2.6	72
119	Demonstration of quantum telecloning of optical coherent states. <i>Physical Review Letters</i> , 2006 , 96, 060504	7.4	69
118	Entanglement swapping between discrete and continuous variables. <i>Physical Review Letters</i> , 2015 , 114, 100501	7.4	68
117	Deterministic implementation of weak quantum cubic nonlinearity. <i>Physical Review A</i> , 2011 , 84,	2.6	65
116	Adaptive optical phase estimation using time-symmetric quantum smoothing. <i>Physical Review Letters</i> , 2010 , 104, 093601	7.4	65
115	Demonstration of deterministic and high fidelity squeezing of quantum information. <i>Physical Review A</i> , 2007 , 76,	2.6	65
114	Experimental Demonstration of Coherent Feedback Control on Optical Field Squeezing. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 2045-2050	5.9	64

113	Experimental demonstration of quantum teleportation of a squeezed state. <i>Physical Review A</i> , 2005 , 72,	2.6	62
112	Experimental proof of nonlocal wavefunction collapse for a single particle using homodyne measurements. <i>Nature Communications</i> , 2015 , 6, 6665	17.4	60
111	Implementation of a quantum cubic gate by an adaptive non-Gaussian measurement. <i>Physical Review A</i> , 2016 , 93,	2.6	57
110	Toward large-scale fault-tolerant universal photonic quantum computing. <i>APL Photonics</i> , 2019 , 4, 060903.	3.2	54
109	Quantum teleportation for continuous variables and related quantum information processing. <i>Physics Reports</i> , 2007 , 443, 97-119	27.7	54
108	Experimental demonstration of quantum teleportation of broadband squeezing. <i>Physical Review Letters</i> , 2007 , 99, 110503	7.4	52
107	Experimental demonstration of entanglement-assisted coding using a two-mode squeezed vacuum state. <i>Physical Review A</i> , 2005 , 71,	2.6	49
106	Emulating quantum cubic nonlinearity. <i>Physical Review A</i> , 2013 , 88,	2.6	47
105	Exploring a new regime for processing optical qubits: squeezing and unsqueezing single photons. <i>Physical Review Letters</i> , 2014 , 113, 013601	7.4	46
104	Low energy excitation modes of amorphous polymers probed by photochemical hole burning. <i>Chemical Physics Letters</i> , 1989 , 161, 227-231	2.5	46
103	Photochemical hole burning of tetraphenylporphin in phenoxy resin at 4.280 K. <i>Journal of Applied Physics</i> , 1989 , 66, 6041-6047	2.5	46
102	Demonstration of a controlled-phase gate for continuous-variable one-way quantum computation. <i>Physical Review Letters</i> , 2011 , 107, 250501	7.4	44
101	High-fidelity continuous-variable quantum teleportation toward multistep quantum operations. <i>Physical Review A</i> , 2008 , 77,	2.6	44
100	Generation of a squeezed vacuum resonant on a rubidium D1 line with periodically poled KTiOPO4. <i>Optics Letters</i> , 2006 , 31, 2344-6	3	44
99	Squeezing at 946nm with periodically poled KTiOPO(4). <i>Optics Express</i> , 2006 , 14, 6930-5	3.3	44
98	Universal linear Bogoliubov transformations through one-way quantum computation. <i>Physical Review A</i> , 2010 , 81,	2.6	43
97	Demonstration of a universal one-way quantum quadratic phase gate. <i>Physical Review A</i> , 2009 , 80,	2.6	41
96	Ultraslow propagation of squeezed vacuum pulses with electromagnetically induced transparency. <i>Physical Review Letters</i> , 2007 , 99, 153602	7.4	40

95	Synchronization of optical photons for quantum information processing. <i>Science Advances</i> , 2016 , 2, e1501732	17.32	39
94	Generation of continuous-wave broadband entangled beams using periodically poled lithium niobate waveguides. <i>Applied Physics Letters</i> , 2007 , 90, 041111	3.4	39
93	Quantum-limited mirror-motion estimation. <i>Physical Review Letters</i> , 2013 , 111, 163602	7.4	38
92	Continuous-wave 6-dB-squeezed light with 2.5-THz-bandwidth from single-mode PPLN waveguide. <i>APL Photonics</i> , 2020 , 5, 036104	5.2	36
91	Creation, Storage, and On-Demand Release of Optical Quantum States with a Negative Wigner Function. <i>Physical Review X</i> , 2013 , 3,	9.1	36
90	High-temperature photochemical hole burning and laser-induced hole filling in dye-doped polymer systems. <i>Journal of Chemical Physics</i> , 1991 , 94, 80-85	3.9	35
89	Universal Quantum Computing with Measurement-Induced Continuous-Variable Gate Sequence in a Loop-Based Architecture. <i>Physical Review Letters</i> , 2017 , 119, 120504	7.4	33
88	Continuous-variable teleportation of single-photon states. <i>Physical Review A</i> , 2001 , 65,	2.6	33
87	Time-gated Einstein-Podolsky-Rosen correlation. <i>Physical Review A</i> , 2006 , 74,	2.6	29
86	General implementation of arbitrary nonlinear quadrature phase gates. <i>Physical Review A</i> , 2018 , 97,	2.6	28
85	Gain tuning and fidelity in continuous-variable quantum teleportation. <i>Physical Review A</i> , 2002 , 65,	2.6	28
84	Experimental realization of a dynamic squeezing gate. <i>Physical Review A</i> , 2014 , 90,	2.6	26
83	On-demand photonic entanglement synthesizer. <i>Science Advances</i> , 2019 , 5, eaaw4530	14.3	25
82	Universal quantum computation with temporal-mode bilayer square lattices. <i>Physical Review A</i> , 2018 , 97,	2.6	25
81	Real-Time Quadrature Measurement of a Single-Photon Wave Packet with Continuous Temporal-Mode Matching. <i>Physical Review Letters</i> , 2016 , 116, 233602	7.4	25
80	Generation of highly pure Schrödinger cat states and real-time quadrature measurements via optical filtering. <i>Optics Express</i> , 2017 , 25, 32227	3.3	25
79	Generation and eight-port homodyne characterization of time-bin qubits for continuous-variable quantum information processing. <i>Physical Review A</i> , 2013 , 87,	2.6	23
78	Sequential quantum teleportation of optical coherent states. <i>Physical Review A</i> , 2007 , 76,	2.6	23

77	Gain tuning for continuous-variable quantum teleportation of discrete-variable states. <i>Physical Review A</i> , 2013 , 88,	2.6	20
76	Generation of squeezed light with a monolithic optical parametric oscillator: simultaneous achievement of phase matching and cavity resonance by temperature control. <i>Optics Express</i> , 2010 , 18, 20143-50	3.3	20
75	Observation of electromagnetically induced transparency for a squeezed vacuum with the time domain method. <i>Optics Express</i> , 2007 , 15, 11849-54	3.3	19
74	Photochemical hole burning of tetraphenylporphine derivatives: relationship between the quantum efficiency for hole formation and chemical structure of tetraphenylporphine derivatives. <i>Chemistry of Materials</i> , 1993 , 5, 366-371	9.6	19
73	Optical memory based on heterodyne-detected accumulated photon echoes. <i>Optics Letters</i> , 1989 , 14, 841-3	3	19
72	Spectrum analysis with quantum dynamical systems. <i>Physical Review A</i> , 2016 , 93,	2.6	18
71	Photochemical hole burning of tetraphenylporphin in epoxy resin: Effect of crosslinked structure. <i>Applied Physics Letters</i> , 1990 , 57, 141-143	3.4	18
70	Noiseless Conditional Teleportation of a Single Photon. <i>Physical Review Letters</i> , 2014 , 113, 223602	7.4	16
69	Demonstration of cluster-state shaping and quantum erasure for continuous variables. <i>Physical Review A</i> , 2010 , 82,	2.6	16
68	Nonlocal quantum gate on quantum continuous variables with minimal resources. <i>Physical Review A</i> , 2014 , 90,	2.6	15
67	Continuous-variable teleportation of a negative Wigner function. <i>Physical Review A</i> , 2010 , 82,	2.6	15
66	All-optical phase-sensitive detection for ultra-fast quantum computation. <i>Optics Express</i> , 2020 , 28, 34916-34926	6.5	15
65	Quantum memory of a squeezed vacuum for arbitrary frequency sidebands. <i>Physical Review A</i> , 2010 , 81,	2.6	14
64	Information losses in continuous-variable quantum teleportation. <i>Physical Review A</i> , 2001 , 64,	2.6	14
63	Heralded creation of photonic qudits from parametric down-conversion using linear optics. <i>Physical Review A</i> , 2018 , 97,	2.6	14
62	Demonstration of a reversible phase-insensitive optical amplifier. <i>Physical Review A</i> , 2011 , 83,	2.6	13
61	Continuous-variable quantum information processing with squeezed states of light. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2010 , 108, 288-296	0.7	12
60	Efficient generation of highly squeezed light with periodically poled MgO:LiNbO ₃ . <i>Optics Express</i> , 2010 , 18, 13114-21	3.3	12

59	Experimental demonstration of macroscopic quantum coherence in Gaussian states. <i>Physical Review A</i> , 2007 , 76,	2.6	11
58	Amplitude squeezing of a semiconductor laser with light injection. <i>Optics Letters</i> , 1996 , 21, 2014-6	3	11
57	Photochemical hole burning (PHB) of tetraphenylporphin in poly(ethylene terephthalate). <i>Polymer</i> , 1991 , 32, 851-855	3.9	10
56	Temporal-mode continuous-variable three-dimensional cluster state for topologically protected measurement-based quantum computation. <i>Physical Review A</i> , 2020 , 102,	2.6	10
55	Quantum nondemolition gate operations and measurements in real time on fluctuating signals. <i>Physical Review A</i> , 2018 , 98,	2.6	10
54	Generation of a Cat State in an Optical Sideband. <i>Physical Review Letters</i> , 2018 , 121, 143602	7.4	10
53	All-Optical Storage of Phase-Sensitive Quantum States of Light. <i>Physical Review Letters</i> , 2019 , 123, 113604	7.4	9
52	Quantum teleportation of nonclassical wave packets: An effective multimode theory. <i>Physical Review A</i> , 2011 , 84,	2.6	9
51	Quantum mode filtering of non-Gaussian states for teleportation-based quantum information processing. <i>Physical Review A</i> , 2012 , 85,	2.6	9
50	Time-Domain-Multiplexed Measurement-Based Quantum Operations with 25-MHz Clock Frequency. <i>Physical Review Applied</i> , 2021 , 16,	4.3	9
49	Demonstration of a fully tunable entangling gate for continuous-variable one-way quantum computation. <i>Physical Review A</i> , 2015 , 92,	2.6	8
48	Direct observation of phase-sensitive Hong-Ou-Mandel interference. <i>Physical Review A</i> , 2017 , 96,	2.6	7
47	Purification of photon subtraction from continuous squeezed light by filtering. <i>Physical Review A</i> , 2017 , 96,	2.6	7
46	Generation and measurement of a squeezed vacuum up to 100 MHz at 1550 nm with a semi-monolithic optical parametric oscillator designed towards direct coupling with waveguide modules. <i>Optics Express</i> , 2019 , 27, 18900-18909	3.3	7
45	Low Energy Excitation Modes of Amorphous Polymers and Structural Relaxation at Low Temperatures Probed by PHB. <i>Japanese Journal of Applied Physics</i> , 1989 , 28, 247	1.4	7
44	Quantum detector tomography of a superconducting nanostrip photon-number-resolving detector. <i>Optics Express</i> , 2021 , 29, 11728-11738	3.3	7
43	500 MHz resonant photodetector for high-quantum-efficiency, low-noise homodyne measurement. <i>Review of Scientific Instruments</i> , 2018 , 89, 063120	1.7	7
42	4-dB Quadrature Squeezing With Fiber-Coupled PPLN Ridge Waveguide Module. <i>IEEE Journal of Quantum Electronics</i> , 2020 , 56, 1-5	2	6

41	Optical homodyne tomography with polynomial series expansion. <i>Physical Review A</i> , 2011 , 84,	2.6	6
40	Generation of optical Schrödinger cat states by generalized photon subtraction. <i>Physical Review A</i> , 2021 , 103,	2.6	6
39	Fabrication of low-loss quasi-single-mode PPLN waveguide and its application to a modularized broadband high-level squeezer. <i>Applied Physics Letters</i> , 2021 , 119, 251104	3.4	6
38	Optimization of quantum noise by completing the square of multiple interferometer outputs in quantum locking for gravitational wave detectors. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020 , 384, 126626	2.3	5
37	Nonclassical correlations of photon number and field components in the vacuum state. <i>Physical Review A</i> , 2000 , 62,	2.6	5
36	Nonlinear Squeezing for Measurement-Based Non-Gaussian Operations in Time Domain. <i>Physical Review Applied</i> , 2021 , 15,	4.3	5
35	Mitigation of radiation-pressure-induced angular instability of a Fabry-Pérot cavity consisting of suspended mirrors. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 3871-3875	2.3	4
34	Photochemical hole burning of tetraphenylporphin in an aromatic polyimide. <i>Polymer</i> , 1991 , 32, 2167-2171	3.4	4
33	Observation of reduction of radiation-pressure-induced rotational anti-spring effect on a 23 mg mirror in a Fabry-Pérot cavity. <i>Classical and Quantum Gravity</i> , 2016 , 33, 145002	3.3	4
32	Complete temporal mode characterization of non-Gaussian states by a dual homodyne measurement. <i>Physical Review A</i> , 2019 , 99,	2.6	3
31	Quantum teleportation and quantum information processing 2011 ,		3
30	Photochemical hole burning by photoinduced electron transfer. Effects of sacrificially consumable molecules. <i>Chemical Physics Letters</i> , 1993 , 210, 411-415	2.5	3
29	Wave-function engineering via conditional quantum teleportation with a non-Gaussian entanglement resource. <i>Physical Review A</i> , 2021 , 103,	2.6	3
28	Generation of Schrödinger cat states with Wigner negativity using a continuous-wave low-loss waveguide optical parametric amplifier.. <i>Optics Express</i> , 2022 , 30, 14161-14171	3.3	3
27	New method to measure the angular antispring effect in a Fabry-Pérot cavity with remote excitation using radiation pressure. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 983-988	2.3	2
26	Excess Loss in Homodyne Detection Originating from Distributed Photocarrier Generation in Photodiodes. <i>Physical Review Applied</i> , 2018 , 10,	4.3	2
25	Optical Hybrid Quantum Information Processing. <i>Lecture Notes in Physics</i> , 2016 , 439-458	0.8	1
24	Quantum Teleportation of Wavepackets in a Non-Gaussian State 2009 ,		1

23	Estimation of Gaussian random displacement using non-Gaussian states. <i>Physical Review A</i> , 2021 , 104,	2.6	1
22	Phase Locking between Two All-Optical Quantum Memories. <i>Physical Review Letters</i> , 2020 , 125, 260508	7.4	1
21	Non-Clifford gate on optical qubits by nonlinear feedforward. <i>Physical Review Research</i> , 2021 , 3,	3.9	1
20	Optical quantum information processing and storage 2018 ,		1
19	Extending the piezoelectric transducer bandwidth of an optical interferometer by suppressing resonance using a high dimensional IIR filter implemented on an FPGA. <i>Review of Scientific Instruments</i> , 2020 , 91, 055102	1.7	1
18	Perspective on hybrid quantum information processing: a method for large-scale quantum information processing. <i>Journal of Optics (United Kingdom)</i> , 2017 , 19, 070401	1.7	0
17	Reduction of quantum noise using the quantum locking with an optical spring for gravitational wave detectors. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021 , 402, 127365	2.3	0
16	Introduction to Optical Quantum Information Processing 2011 , 79-123		
15	Entanglement 2011 , 125-178		
14	Quantum Teleportation 2011 , 179-215		
13	Quantum Error Correction 2011 , 217-241		
12	Quantum Teleportation of Gates 2011 , 243-270		
11	Cluster-Based Quantum Information Processing 2011 , 271-297		
10	Hybrid Quantum Information Processing 2011 , 299-321		
9	Introduction to Quantum Information Processing 2011 , 1-77		
8	Quantum Information Networks: Present and Future 2005 , FWM3		
7	Experimental Realization of Continuous Variable Teleportation 2003 , 77-93		
6	Topical Papers on Quantum Optics and Quantum Information Science. <i>The Review of Laser Engineering</i> , 2003 , 31, 582-585		0

- 5 High-Fidelity Quantum Teleportation and a Quantum Teleportation Network **2007**, 265-284
- 4 Preface to Special Issue on Present and Future Status of Quantum Communication Technology Using Coherent Optics. *The Review of Laser Engineering*, **2008**, 36, 397-398 ○
- 3 On-Demand Release of a Heralded Quantum State from Concatenated Optical Cavities. *Nano-optics and Nanophotonics*, **2015**, 217-240 ○
- 2 Quantum Teleportation. *Hyomen Kagaku*, **2011**, 32, 801-803
- 1 Erratum to $\sqrt{2}$ -dB Quadrature Squeezing With Fiber-Coupled PPLN Ridge Waveguide Module [Jun 20 10.1109/JQE.2020.2982698]. *IEEE Journal of Quantum Electronics*, **2021**, 57, 1-1 2