

# Nobuyuki Imoto

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

111  
papers

4,473  
citations

33  
h-index

64  
g-index

128  
ext. papers

4,959  
ext. citations

4.8  
avg, IF

5.35  
L-index

#	Paper	IF	Citations
111	Quantum entanglement for secret sharing and secret splitting. <i>Physical Review A</i> , <b>1999</b> , 59, 162-168	2.6	767
110	Concentration and purification scheme for two partially entangled photon pairs. <i>Physical Review A</i> , <b>2001</b> , 64,	2.6	219
109	Direct observation of Hardy's paradox by joint weak measurement with an entangled photon pair. <i>New Journal of Physics</i> , <b>2009</b> , 11, 033011	2.9	180
108	Experimental extraction of an entangled photon pair from two identically decohered pairs. <i>Nature</i> , <b>2003</b> , 421, 343-6	50.4	172
107	Observation of an electromagnetically induced grating in cold sodium atoms. <i>Physical Review A</i> , <b>1999</b> , 59, 4773-4776	2.6	147
106	Entangled webs: Tight bound for symmetric sharing of entanglement. <i>Physical Review A</i> , <b>2000</b> , 62,	2.6	118
105	Simple and efficient quantum key distribution with parametric down-conversion. <i>Physical Review Letters</i> , <b>2007</b> , 99, 180503	7.4	116
104	Wide-band quantum interface for visible-to-telecommunication wavelength conversion. <i>Nature Communications</i> , <b>2011</b> , 2, 1544	17.4	113
103	Quantum Cryptography Based on Split Transmission of One-Bit Information in Two Steps. <i>Physical Review Letters</i> , <b>1997</b> , 79, 2383-2386	7.4	108
102	Unconditionally secure key distribution based on two nonorthogonal states. <i>Physical Review Letters</i> , <b>2003</b> , 90, 167904	7.4	96
101	Polarization-entangled W state using parametric down-conversion. <i>Physical Review A</i> , <b>2002</b> , 66,	2.6	89
100	Frequency-domain Hong-Ou-Mandel interference. <i>Nature Photonics</i> , <b>2016</b> , 10, 441-444	33.9	82
99	Probabilistic manipulation of entangled photons. <i>Physical Review A</i> , <b>2001</b> , 63,	2.6	80
98	Communication channels secured from eavesdropping via transmission of photonic Bell states. <i>Physical Review A</i> , <b>1999</b> , 60, 157-166	2.6	79
97	Quantum theory for continuous photodetection processes. <i>Physical Review A</i> , <b>1990</b> , 41, 3891-3904	2.6	79
96	Local transformation of two einstein-podolsky-rosen photon pairs into a three-photon w state. <i>Physical Review Letters</i> , <b>2009</b> , 102, 130502	7.4	77
95	Generation of high-fidelity four-photon cluster state and quantum-domain demonstration of one-way quantum computing. <i>Physical Review Letters</i> , <b>2008</b> , 100, 210501	7.4	77

94	Quantum nondemolition measurement of photon number via optical Kerr effect in an ultra-high-Q microtoroid cavity. <i>Optics Express</i> , <b>2008</b> , 16, 21462-75	3.3	71
93	Quantum-scissors device for optical state truncation: A proposal for practical realization. <i>Physical Review A</i> , <b>2001</b> , 64,	2.6	66
92	Elementary optical gate for expanding an entanglement web. <i>Physical Review A</i> , <b>2008</b> , 77,	2.6	65
91	Local expansion of photonic W state using a polarization-dependent beamsplitter. <i>New Journal of Physics</i> , <b>2009</b> , 11, 023024	2.9	58
90	Microscopic theory of the continuous measurement of photon number. <i>Physical Review A</i> , <b>1990</b> , 41, 4127-4130	7.4	53
89	Field Commutation Relations in Optical Cavities. <i>Physical Review Letters</i> , <b>1996</b> , 77, 1739-1742	7.4	49
88	Robust photonic entanglement distribution by state-independent encoding onto decoherence-free subspace. <i>Nature Photonics</i> , <b>2008</b> , 2, 488-491	33.9	48
87	Phase-sensitive reservoir modeled by beam splitters. <i>Physical Review A</i> , <b>1995</b> , 52, 2401-2410	2.6	46
86	Configuration of separability and tests for multipartite entanglement in bell-type experiments. <i>Physical Review Letters</i> , <b>2002</b> , 89, 260401	7.4	42
85	Generation of the Schrödinger-cat state by continuous photodetection. <i>Physical Review A</i> , <b>1991</b> , 43, 6458-6461	7.4	42
84	Continuous quantum-nondemolition measurement of photon number. <i>Physical Review A</i> , <b>1992</b> , 46, 2859-2869	7.4	42
83	Logical reversibility in quantum measurement: General theory and specific examples. <i>Physical Review A</i> , <b>1996</b> , 53, 3808-3817	2.6	41
82	Operations that do not disturb partially known quantum states. <i>Physical Review A</i> , <b>2002</b> , 66,	2.6	40
81	Demonstration of local expansion toward large-scale entangled webs. <i>Physical Review Letters</i> , <b>2010</b> , 105, 210503	7.4	39
80	QUANTUM AND CLASSICAL CORRELATIONS BETWEEN PLAYERS IN GAME THEORY. <i>International Journal of Quantum Information</i> , <b>2004</b> , 02, 79-89	0.8	35
79	Long-Distance Single Photon Transmission from a Trapped Ion via Quantum Frequency Conversion. <i>Physical Review Letters</i> , <b>2018</b> , 120, 203601	7.4	35
78	Pulse-mode quantum projection synthesis: Effects of mode mismatch on optical state truncation and preparation. <i>Physical Review A</i> , <b>2002</b> , 66,	2.6	33
77	No-Cloning Theorem of Entangled States. <i>Physical Review Letters</i> , <b>1998</b> , 81, 4264-4267	7.4	33

76	Optimal two-qubit tomography based on local and global measurements: Maximal robustness against errors as described by condition numbers. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	32
75	Stimulated Brillouin scattering and Brillouin-coupled four-wave-mixing in a silica microbottle resonator. <i>Optics Express</i> , <b>2016</b> , 24, 12082-92	3.3	31
74	Experimental time-reversed adaptive Bell measurement towards all-photon quantum repeaters. <i>Nature Communications</i> , <b>2019</b> , 10, 378	17.4	30
73	Polarization insensitive frequency conversion for an atom-photon entanglement distribution via a telecom network. <i>Nature Communications</i> , <b>2018</b> , 9, 1997	17.4	30
72	High-fidelity conversion of photonic quantum information to telecommunication wavelength with superconducting single-photon detectors. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	29
71	Entangled states that cannot reproduce original classical games in their quantum version. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2004</b> , 328, 20-25	2.3	28
70	Measurement-induced oscillations of a highly squeezed state between super- and sub-Poissonian photon statistics. <i>Physical Review Letters</i> , <b>1991</b> , 66, 1046-1049	7.4	28
69	Optimal local expansion of W states using linear optics and Fock states. <i>Physical Review A</i> , <b>2011</b> , 83,	2.6	27
68	Blind quantum computation over a collective-noise channel. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	26
67	Robustness of the round-robin differential-phase-shift quantum-key-distribution protocol against source flaws. <i>Physical Review A</i> , <b>2015</b> , 92,	2.6	25
66	Simple experimental scheme of preparing a four-photon entangled state for the teleportation-based realization of a linear optical controlled-NOT gate. <i>Physical Review A</i> , <b>2005</b> , 71,	2.6	24
65	Quantum Cryptography Based on Two Mixed States. <i>Physical Review Letters</i> , <b>1996</b> , 77, 2137-2140	7.4	24
64	Distillation of photon entanglement using a plasmonic metamaterial. <i>Scientific Reports</i> , <b>2015</b> , 5, 18313	4.9	24
63	Frequency down-conversion of 637 nm light to the telecommunication band for non-classical light emitted from NV centers in diamond. <i>Optics Express</i> , <b>2014</b> , 22, 11205-14	3.3	23
62	High-fidelity entanglement swapping and generation of three-qubit GHZ state using asynchronous telecom photon pair sources. <i>Scientific Reports</i> , <b>2018</b> , 8, 1446	4.9	22
61	Observation of optomechanical coupling in a microbottle resonator. <i>Laser and Photonics Reviews</i> , <b>2016</b> , 10, 603-611	8.3	22
60	Optimal entanglement generation for efficient hybrid quantum repeaters. <i>Physical Review A</i> , <b>2009</b> , 80,	2.6	22
59	Temperature diagnostics for cold sodium atoms by transient four-wave mixing. <i>Optics Letters</i> , <b>1998</b> , 23, 840-2	3	22

58	Quantum-Optical States in Finite-Dimensional Hilbert Space. I. General Formalism	155-193	21
57	Single-photon-interference communication equivalent to Bell-state-basis cryptographic quantum communication. <i>Physical Review A</i> , <b>2000</b> , 62,		2.6 21
56	Frequency comb generation in a quadratic nonlinear waveguide resonator. <i>Optics Express</i> , <b>2018</b> , 26, 15551-15558		
55	Anomalous commutation relation and modified spontaneous emission inside a microcavity. <i>Physical Review A</i> , <b>1994</b> , 50, 89-92		2.6 20
54	Quantum state tomography of large nuclear spins in a semiconductor quantum well: Optimal robustness against errors as quantified by condition numbers. <i>Physical Review B</i> , <b>2015</b> , 92,		3.3 19
53	Efficient decoherence-free entanglement distribution over lossy quantum channels. <i>Physical Review Letters</i> , <b>2011</b> , 106, 110503		7.4 19
52	Fidelity estimation and entanglement verification for experimentally produced four-qubit cluster states. <i>Physical Review A</i> , <b>2006</b> , 74,		2.6 19
51	Measurement-Free Topological Protection Using Dissipative Feedback. <i>Physical Review X</i> , <b>2014</b> , 4,		9.1 18
50	Quantum repeaters and computation by a single module: Remote nondestructive parity measurement. <i>Physical Review A</i> , <b>2012</b> , 85,		2.6 18
49	Threshold quantum cryptography. <i>Physical Review A</i> , <b>2005</b> , 71,		2.6 18
48	Heralded single excitation of atomic ensemble via solid-state-based telecom photon detection. <i>Optica</i> , <b>2016</b> , 3, 1279		8.6 18
47	Quantum kinetic theory for evaporative cooling of trapped atoms: Growth of Bose-Einstein condensate. <i>Physical Review A</i> , <b>1999</b> , 59, 2243-2249		2.6 17
46	Security of the Bennett 1992 quantum-key distribution protocol against individual attack over a realistic channel. <i>Physical Review A</i> , <b>2003</b> , 67,		2.6 16
45	Probabilistic cloning with supplementary information. <i>Physical Review A</i> , <b>2005</b> , 72,		2.6 16
44	Quantum key distribution with setting-choice-independently correlated light sources. <i>Npj Quantum Information</i> , <b>2019</b> , 5,		8.6 15
43	Nonclassical two-photon interference between independent telecommunication light pulses converted by difference-frequency generation. <i>Physical Review A</i> , <b>2013</b> , 88,		2.6 15
42	Continuous state reduction of correlated photon fields in photodetection processes. <i>Physical Review A</i> , <b>1990</b> , 41, 6331-6344		2.6 15
41	Differential-phase-shift quantum-key-distribution protocol with a small number of random delays. <i>Physical Review A</i> , <b>2017</b> , 95,		2.6 14

40	Circuit configurations which may or may not show superradiant phase transitions. <i>Physical Review A</i> , <b>2017</b> , 96,	2.6	14
39	Measurement-device-independent quantum key distribution for Scarani-Acin-Ribordy-Gisin 04 protocol. <i>Scientific Reports</i> , <b>2014</b> , 4, 5236	4.9	13
38	Mach-Zehnder interferometer using frequency-domain beamsplitter. <i>Optics Express</i> , <b>2017</b> , 25, 12052-12060	3.9	13
37	Universal gates for transforming multipartite entangled Dicke states. <i>New Journal of Physics</i> , <b>2014</b> , 16, 023005	2.9	13
36	Observables suitable for restricting the fidelity to multipartite maximally entangled states. <i>Physical Review A</i> , <b>2002</b> , 65,	2.6	12
35	Full characterization of modular values for finite-dimensional systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2016</b> , 380, 2129-2135	2.3	12
34	Security of quantum key distribution with light sources that are not independently and identically distributed. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	11
33	High visibility Hong-Ou-Mandel interference via a time-resolved coincidence measurement. <i>Optics Express</i> , <b>2017</b> , 25, 12069-12080	3.3	11
32	Cheat-sensitive commitment of a classical bit coded in a block of $m$ $n$ round-trip qubits. <i>Physical Review A</i> , <b>2011</b> , 84,	2.6	11
31	Generalized modular-value-based scheme and its generalized modular value. <i>Physical Review A</i> , <b>2017</b> , 95,	2.6	10
30	Boosting up quantum key distribution by learning statistics of practical single-photon sources. <i>New Journal of Physics</i> , <b>2009</b> , 11, 113033	2.9	10
29	Photonic de broglie wave interferometers. <i>Journal of Modern Optics</i> , <b>1998</b> , 45, 2217-2232	1.1	9
28	Selective entanglement breaking. <i>Physical Review A</i> , <b>2007</b> , 75,	2.6	9
27	Optical qubit generation by state truncation using an experimentally feasible scheme. <i>Journal of Modern Optics</i> , <b>2002</b> , 49, 977-984	1.1	9
26	Frequency-Multiplexed Photon Pairs Over 1000 Modes from a Quadratic Nonlinear Optical Waveguide Resonator with a Singly Resonant Configuration. <i>Physical Review Letters</i> , <b>2019</b> , 123, 193603	7.4	8
25	Robustness of quantum communication based on a decoherence-free subspace using a counter-propagating weak coherent light pulse. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	8
24	Observation of two output light pulses from a partial wavelength converter preserving phase of an input light at a single-photon level. <i>Optics Express</i> , <b>2013</b> , 21, 27865-72	3.3	8
23	Communication channels analogous to one out of two oblivious transfers based on quantum uncertainty. <i>Physical Review A</i> , <b>2002</b> , 66,	2.6	8

22	Fault-tolerant simple quantum-bit commitment unbreakable by individual attacks. <i>Physical Review A</i> , <b>2002</b> , 65,	2.6	8
21	Optimization of evaporative cooling towards a large number of Bose-Einstein-condensed atoms. <i>Physical Review A</i> , <b>2003</b> , 67,	2.6	6
20	Quantum weak and modular values in enlarged Hilbert spaces. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	5
19	Dynamics of evaporative cooling in magnetically trapped atomic hydrogen. <i>Physical Review A</i> , <b>2000</b> , 62,	2.6	5
18	Extracting an entangled photon pair from collectively decohered pairs at a telecommunication wavelength. <i>Optics Express</i> , <b>2015</b> , 23, 13545-53	3.3	4
17	Quantum algorithm for an additive approximation of Ising partition functions. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	4
16	Fabrication and Characterization of Superconducting Nanowire Single-Photon Detectors on Si Waveguide. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2015</b> , 25, 1-4	1.8	3
15	When a negative weak value $\bar{w}$ plays the counterpart of a probability 1. <i>New Journal of Physics</i> , <b>2016</b> , 18, 123002	2.9	3
14	A strange weak value in spontaneous pair productions via a supercritical step potential. <i>New Journal of Physics</i> , <b>2012</b> , 14, 083021	2.9	3
13	Quantum noise in optical beam propagation in distributed amplifiers. <i>Optics Communications</i> , <b>1996</b> , 130, 377-384	2	3
12	Various pointer states approaches to polar modular values. <i>Journal of Mathematical Physics</i> , <b>2018</b> , 59, 042107	1.2	2
11	A weak-value model for virtual particles supplying the electric current in graphene: the minimal conductivity and the Schwinger mechanism. <i>New Journal of Physics</i> , <b>2014</b> , 16, 073003	2.9	2
10	Quantum effects of spatial/temporal modulation of the optical field. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>1997</b> , 48, 34-38	3.1	2
9	Timing Jitter Characterization of the SFQ Coincidence Circuit by Optically Time-Controlled Signals From SSPDs. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2019</b> , 29, 1-4	1.8	1
8	Fundamental limit to qubit control with coherent field. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	1
7	Experimental demonstration of robust entanglement distribution over reciprocal noisy channels assisted by a counter-propagating classical reference light. <i>Scientific Reports</i> , <b>2017</b> , 7, 4819	4.9	1
6	Nonlinear Phenomena in Quantum Optics 491-601		1
5	Local Transformation of Two EPR Photon Pairs into a Three-Photon W State Using a Polarization Dependent Beamsplitter. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2010</b> , 39-45	0.2	1

4	Robust entanglement distribution via telecom fibre assisted by an asynchronous counter-propagating laser light. <i>Npj Quantum Information</i> , <b>2020</b> , 6,	8.6	1
3	Entangled photon pair detection by superconducting nanowire single-photon detectors with a single-flux-quantum coincidence circuit. <i>Applied Physics Express</i> , <b>2021</b> , 14, 102001	2.4	0
2	An Elementary Optical Gate for Expanding Symmetrically Shared Entanglement. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 70-82	0.9	
1	Negation of photon loss provided by negative weak value. <i>Journal of Physics Communications</i> , <b>2018</b> , 2, 065013	1.2	