

Nobuyuki Imoto

List of Publications by Year in Descending Order

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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	Entangled photon pair detection by superconducting nanowire single-photon detectors with a single-flux-quantum coincidence circuit. <i>Applied Physics Express</i> , 2021 , 14, 102001	2.4	0
110	Robust entanglement distribution via telecom fibre assisted by an asynchronous counter-propagating laser light. <i>Npj Quantum Information</i> , 2020 , 6,	8.6	1
109	Timing Jitter Characterization of the SFQ Coincidence Circuit by Optically Time-Controlled Signals From SSPDs. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-4	1.8	1
108	Experimental time-reversed adaptive Bell measurement towards all-photonic quantum repeaters. <i>Nature Communications</i> , 2019 , 10, 378	17.4	30
107	Quantum key distribution with setting-choice-independently correlated light sources. <i>Npj Quantum Information</i> , 2019 , 5,	8.6	15
106	Frequency-Multiplexed Photon Pairs Over 1000 Modes from a Quadratic Nonlinear Optical Waveguide Resonator with a Singly Resonant Configuration. <i>Physical Review Letters</i> , 2019 , 123, 193603	7.4	8
105	High-fidelity entanglement swapping and generation of three-qubit GHZ state using asynchronous telecom photon pair sources. <i>Scientific Reports</i> , 2018 , 8, 1446	4.9	22
104	Quantum weak and modular values in enlarged Hilbert spaces. <i>Physical Review A</i> , 2018 , 97,	2.6	5
103	Frequency comb generation in a quadratic nonlinear waveguide resonator. <i>Optics Express</i> , 2018 , 26, 15551-15558	1.2	2
102	Various pointer states approaches to polar modular values. <i>Journal of Mathematical Physics</i> , 2018 , 59, 042107	1.2	2
101	Negation of photon loss provided by negative weak value. <i>Journal of Physics Communications</i> , 2018 , 2, 065013	1.2	
100	Long-Distance Single Photon Transmission from a Trapped Ion via Quantum Frequency Conversion. <i>Physical Review Letters</i> , 2018 , 120, 203601	7.4	35
99	Polarization insensitive frequency conversion for an atom-photon entanglement distribution via a telecom network. <i>Nature Communications</i> , 2018 , 9, 1997	17.4	30
98	Generalized modular-value-based scheme and its generalized modular value. <i>Physical Review A</i> , 2017 , 95,	2.6	10
97	Experimental demonstration of robust entanglement distribution over reciprocal noisy channels assisted by a counter-propagating classical reference light. <i>Scientific Reports</i> , 2017 , 7, 4819	4.9	1
96	Differential-phase-shift quantum-key-distribution protocol with a small number of random delays. <i>Physical Review A</i> , 2017 , 95,	2.6	14
95	Circuit configurations which may or may not show superradiant phase transitions. <i>Physical Review A</i> , 2017 , 96,	2.6	14

94	Mach-Zehnder interferometer using frequency-domain beamsplitter. <i>Optics Express</i> , 2017 , 25, 12052-12060	3.3	11
93	High visibility Hong-Ou-Mandel interference via a time-resolved coincidence measurement. <i>Optics Express</i> , 2017 , 25, 12069-12080	3.3	11
92	Security of quantum key distribution with light sources that are not independently and identically distributed. <i>Physical Review A</i> , 2016 , 93,	2.6	11
91	Blind quantum computation over a collective-noise channel. <i>Physical Review A</i> , 2016 , 93,	2.6	26
90	Observation of optomechanical coupling in a microbottle resonator. <i>Laser and Photonics Reviews</i> , 2016 , 10, 603-611	8.3	22
89	When a negative weak value \bar{A} plays the counterpart of a probability 1. <i>New Journal of Physics</i> , 2016 , 18, 123002	2.9	3
88	Stimulated Brillouin scattering and Brillouin-coupled four-wave-mixing in a silica microbottle resonator. <i>Optics Express</i> , 2016 , 24, 12082-92	3.3	31
87	Heralded single excitation of atomic ensemble via solid-state-based telecom photon detection. <i>Optica</i> , 2016 , 3, 1279	8.6	18
86	Full characterization of modular values for finite-dimensional systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 2129-2135	2.3	12
85	Frequency-domain Hong-Ou-Mandel interference. <i>Nature Photonics</i> , 2016 , 10, 441-444	33.9	82
84	Fabrication and Characterization of Superconducting Nanowire Single-Photon Detectors on Si Waveguide. <i>IEEE Transactions on Applied Superconductivity</i> , 2015 , 25, 1-4	1.8	3
83	Extracting an entangled photon pair from collectively decohered pairs at a telecommunication wavelength. <i>Optics Express</i> , 2015 , 23, 13545-53	3.3	4
82	Robustness of the round-robin differential-phase-shift quantum-key-distribution protocol against source flaws. <i>Physical Review A</i> , 2015 , 92,	2.6	25
81	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> , 2015 , 92,	3.3	19
80	Distillation of photon entanglement using a plasmonic metamaterial. <i>Scientific Reports</i> , 2015 , 5, 18313	4.9	24
79	Measurement-device-independent quantum key distribution for Scarani-Acin-Ribordy-Gisin 04 protocol. <i>Scientific Reports</i> , 2014 , 4, 5236	4.9	13
78	Measurement-Free Topological Protection Using Dissipative Feedback. <i>Physical Review X</i> , 2014 , 4,	9.1	18
77	Universal gates for transforming multipartite entangled Dicke states. <i>New Journal of Physics</i> , 2014 , 16, 023005	2.9	13

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> , 2014 , 90,	2.6	32
75	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> , 2014 , 16, 073003	2.9	2
74	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> , 2014 , 22, 11205-14	3.3	23
73	Quantum algorithm for an additive approximation of Ising partition functions. <i>Physical Review A</i> , 2014 , 90,	2.6	4
72	Fundamental limit to qubit control with coherent field. <i>Physical Review A</i> , 2013 , 87,	2.6	1
71	Robustness of quantum communication based on a decoherence-free subspace using a counter-propagating weak coherent light pulse. <i>Physical Review A</i> , 2013 , 87,	2.6	8
70	High-fidelity conversion of photonic quantum information to telecommunication wavelength with superconducting single-photon detectors. <i>Physical Review A</i> , 2013 , 87,	2.6	29
69	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> , 2013 , 21, 27865-72	3.3	8
68	Nonclassical two-photon interference between independent telecommunication light pulses converted by difference-frequency generation. <i>Physical Review A</i> , 2013 , 88,	2.6	15
67	A strange weak value in spontaneous pair productions via a supercritical step potential. <i>New Journal of Physics</i> , 2012 , 14, 083021	2.9	3
66	Quantum repeaters and computation by a single module: Remote nondestructive parity measurement. <i>Physical Review A</i> , 2012 , 85,	2.6	18
65	Wide-band quantum interface for visible-to-telecommunication wavelength conversion. <i>Nature Communications</i> , 2011 , 2, 1544	17.4	113
64	Efficient decoherence-free entanglement distribution over lossy quantum channels. <i>Physical Review Letters</i> , 2011 , 106, 110503	7.4	19
63	Cheat-sensitive commitment of a classical bit coded in a block of m n round-trip qubits. <i>Physical Review A</i> , 2011 , 84,	2.6	11
62	Optimal local expansion of W states using linear optics and Fock states. <i>Physical Review A</i> , 2011 , 83,	2.6	27
61	Demonstration of local expansion toward large-scale entangled webs. <i>Physical Review Letters</i> , 2010 , 105, 210503	7.4	39
60	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> , 2010 , 39-45	0.2	1
59	Local transformation of two einstein-podolsky-rosen photon pairs into a three-photon w state. <i>Physical Review Letters</i> , 2009 , 102, 130502	7.4	77

58	Boosting up quantum key distribution by learning statistics of practical single-photon sources. <i>New Journal of Physics</i> , 2009 , 11, 113033	2.9	10
57	Local expansion of photonic W state using a polarization-dependent beamsplitter. <i>New Journal of Physics</i> , 2009 , 11, 023024	2.9	58
56	Direct observation of Hardy's paradox by joint weak measurement with an entangled photon pair. <i>New Journal of Physics</i> , 2009 , 11, 033011	2.9	180
55	Optimal entanglement generation for efficient hybrid quantum repeaters. <i>Physical Review A</i> , 2009 , 80,	2.6	22
54	Robust photonic entanglement distribution by state-independent encoding onto decoherence-free subspace. <i>Nature Photonics</i> , 2008 , 2, 488-491	33.9	48
53	Elementary optical gate for expanding an entanglement web. <i>Physical Review A</i> , 2008 , 77,	2.6	65
52	Quantum nondemolition measurement of photon number via optical Kerr effect in an ultra-high-Q microtoroid cavity. <i>Optics Express</i> , 2008 , 16, 21462-75	3.3	71
51	Generation of high-fidelity four-photon cluster state and quantum-domain demonstration of one-way quantum computing. <i>Physical Review Letters</i> , 2008 , 100, 210501	7.4	77
50	An Elementary Optical Gate for Expanding Symmetrically Shared Entanglement. <i>Lecture Notes in Computer Science</i> , 2008 , 70-82	0.9	
49	Selective entanglement breaking. <i>Physical Review A</i> , 2007 , 75,	2.6	9
48	Simple and efficient quantum key distribution with parametric down-conversion. <i>Physical Review Letters</i> , 2007 , 99, 180503	7.4	116
47	Fidelity estimation and entanglement verification for experimentally produced four-qubit cluster states. <i>Physical Review A</i> , 2006 , 74,	2.6	19
46	Threshold quantum cryptography. <i>Physical Review A</i> , 2005 , 71,	2.6	18
45	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> , 2005 , 71,	2.6	24
44	Probabilistic cloning with supplementary information. <i>Physical Review A</i> , 2005 , 72,	2.6	16
43	QUANTUM AND CLASSICAL CORRELATIONS BETWEEN PLAYERS IN GAME THEORY. <i>International Journal of Quantum Information</i> , 2004 , 02, 79-89	0.8	35
42	Entangled states that cannot reproduce original classical games in their quantum version. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004 , 328, 20-25	2.3	28
41	Experimental extraction of an entangled photon pair from two identically decohered pairs. <i>Nature</i> , 2003 , 421, 343-6	50.4	172

40	Security of the Bennett 1992 quantum-key distribution protocol against individual attack over a realistic channel. <i>Physical Review A</i> , 2003 , 67,	2.6	16
39	Optimization of evaporative cooling towards a large number of Bose-Einstein-condensed atoms. <i>Physical Review A</i> , 2003 , 67,	2.6	6
38	Unconditionally secure key distribution based on two nonorthogonal states. <i>Physical Review Letters</i> , 2003 , 90, 167904	7.4	96
37	Configuration of separability and tests for multipartite entanglement in bell-type experiments. <i>Physical Review Letters</i> , 2002 , 89, 260401	7.4	42
36	Communication channels analogous to one out of two oblivious transfers based on quantum uncertainty. <i>Physical Review A</i> , 2002 , 66,	2.6	8
35	Observables suitable for restricting the fidelity to multipartite maximally entangled states. <i>Physical Review A</i> , 2002 , 65,	2.6	12
34	Pulse-mode quantum projection synthesis: Effects of mode mismatch on optical state truncation and preparation. <i>Physical Review A</i> , 2002 , 66,	2.6	33
33	Fault-tolerant simple quantum-bit commitment unbreakable by individual attacks. <i>Physical Review A</i> , 2002 , 65,	2.6	8
32	Optical qubit generation by state truncation using an experimentally feasible scheme. <i>Journal of Modern Optics</i> , 2002 , 49, 977-984	1.1	9
31	Operations that do not disturb partially known quantum states. <i>Physical Review A</i> , 2002 , 66,	2.6	40
30	Polarization-entangled W state using parametric down-conversion. <i>Physical Review A</i> , 2002 , 66,	2.6	89
29	Concentration and purification scheme for two partially entangled photon pairs. <i>Physical Review A</i> , 2001 , 64,	2.6	219
28	Probabilistic manipulation of entangled photons. <i>Physical Review A</i> , 2001 , 63,	2.6	80
27	Quantum-scissors device for optical state truncation: A proposal for practical realization. <i>Physical Review A</i> , 2001 , 64,	2.6	66
26	Single-photon-interference communication equivalent to Bell-state-basis cryptographic quantum communication. <i>Physical Review A</i> , 2000 , 62,	2.6	21
25	Entangled webs: Tight bound for symmetric sharing of entanglement. <i>Physical Review A</i> , 2000 , 62,	2.6	118
24	Dynamics of evaporative cooling in magnetically trapped atomic hydrogen. <i>Physical Review A</i> , 2000 , 62,	2.6	5
23	Quantum kinetic theory for evaporative cooling of trapped atoms: Growth of Bose-Einstein condensate. <i>Physical Review A</i> , 1999 , 59, 2243-2249	2.6	17

22	Communication channels secured from eavesdropping via transmission of photonic Bell states. <i>Physical Review A</i> , 1999 , 60, 157-166	2.6	79
21	Observation of an electromagnetically induced grating in cold sodium atoms. <i>Physical Review A</i> , 1999 , 59, 4773-4776	2.6	147
20	Quantum entanglement for secret sharing and secret splitting. <i>Physical Review A</i> , 1999 , 59, 162-168	2.6	767
19	Photonic de broglie wave interferometers. <i>Journal of Modern Optics</i> , 1998 , 45, 2217-2232	1.1	9
18	Temperature diagnostics for cold sodium atoms by transient four-wave mixing. <i>Optics Letters</i> , 1998 , 23, 840-2	3	22
17	No-Cloning Theorem of Entangled States. <i>Physical Review Letters</i> , 1998 , 81, 4264-4267	7.4	33
16	Quantum Cryptography Based on Split Transmission of One-Bit Information in Two Steps. <i>Physical Review Letters</i> , 1997 , 79, 2383-2386	7.4	108
15	Quantum effects of spatial/temporal modulation of the optical field. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1997 , 48, 34-38	3.1	2
14	Quantum noise in optical beam propagation in distributed amplifiers. <i>Optics Communications</i> , 1996 , 130, 377-384	2	3
13	Logical reversibility in quantum measurement: General theory and specific examples. <i>Physical Review A</i> , 1996 , 53, 3808-3817	2.6	41
12	Quantum Cryptography Based on Two Mixed States. <i>Physical Review Letters</i> , 1996 , 77, 2137-2140	7.4	24
11	Field Commutation Relations in Optical Cavities. <i>Physical Review Letters</i> , 1996 , 77, 1739-1742	7.4	49
10	Phase-sensitive reservoir modeled by beam splitters. <i>Physical Review A</i> , 1995 , 52, 2401-2410	2.6	46
9	Anomalous commutation relation and modified spontaneous emission inside a microcavity. <i>Physical Review A</i> , 1994 , 50, 89-92	2.6	20
8	Continuous quantum-nondemolition measurement of photon number. <i>Physical Review A</i> , 1992 , 46, 2859-2869	2.6	42
7	Generation of the Schrödinger-cat state by continuous photodetection. <i>Physical Review A</i> , 1991 , 43, 6458-6461	2.6	42
6	Measurement-induced oscillations of a highly squeezed state between super- and sub-Poissonian photon statistics. <i>Physical Review Letters</i> , 1991 , 66, 1046-1049	7.4	28
5	Microscopic theory of the continuous measurement of photon number. <i>Physical Review A</i> , 1990 , 41, 4127-4130	2.6	53

4	Continuous state reduction of correlated photon fields in photodetection processes. <i>Physical Review A</i> , 1990 , 41, 6331-6344	2.6	15
3	Quantum theory for continuous photodetection processes. <i>Physical Review A</i> , 1990 , 41, 3891-3904	2.6	79
2	Quantum-Optical States in Finite-Dimensional Hilbert Space. I. General Formalism 155-193		21
1	Nonlinear Phenomena in Quantum Optics 491-601		1