

Takashi Yamamoto

List of Publications by Year in descending order

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Version: 2024-02-01

93
papers

2,828
citations

172386

29
h-index

175177

52
g-index

95
all docs

95
docs citations

95
times ranked

1872
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Concentration and purification scheme for two partially entangled photon pairs. <i>Physical Review A</i> , 2001, 64, . | 1.0 | 235 |
| 2 | Direct observation of Hardy's paradox by joint weak measurement with an entangled photon pair. <i>New Journal of Physics</i> , 2009, 11, 033011. | 1.2 | 206 |
| 3 | Experimental extraction of an entangled photon pair from two identically decohered pairs. <i>Nature</i> , 2003, 421, 343-346. | 13.7 | 195 |
| 4 | Wide-band quantum interface for visible-to-telecommunication wavelength conversion. <i>Nature Communications</i> , 2011, 2, 1544. | 5.8 | 156 |
| 5 | Simple and Efficient Quantum Key Distribution with Parametric Down-Conversion. <i>Physical Review Letters</i> , 2007, 99, 180503. | 2.9 | 149 |
| 6 | Frequency-domain Hongâ€™Ouâ€™Mandel interference. <i>Nature Photonics</i> , 2016, 10, 441-444. | 15.6 | 135 |
| 7 | Polarization-entangled W state using parametric down-conversion. <i>Physical Review A</i> , 2002, 66, . | 1.0 | 94 |
| 8 | Probabilistic manipulation of entangled photons. <i>Physical Review A</i> , 2001, 63, . | 1.0 | 88 |
| 9 | 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. | 2.9 | 88 |
| 10 | Local Transformation of Two Einstein-Podolsky-Rosen Photon Pairs into a Three-Photon W State. <i>Physical Review Letters</i> , 2009, 102, 130502. | 2.9 | 86 |
| 11 | Faithful Qubit Distribution Assisted by One Additional Qubit against Collective Noise. <i>Physical Review Letters</i> , 2005, 95, 040503. | 2.9 | 83 |
| 12 | Elementary optical gate for expanding an entanglement web. <i>Physical Review A</i> , 2008, 77, . | 1.0 | 77 |
| 13 | Polarization insensitive frequency conversion for an atom-photon entanglement distribution via a telecom network. <i>Nature Communications</i> , 2018, 9, 1997. | 5.8 | 65 |
| 14 | Local expansion of photonic W state using a polarization-dependent beamsplitter. <i>New Journal of Physics</i> , 2009, 11, 023024. | 1.2 | 63 |
| 15 | An optical fusion gate for W -states. <i>New Journal of Physics</i> , 2011, 13, 103003. | 1.2 | 63 |
| 16 | Long-Distance Single Photon Transmission from a Trapped Ion via Quantum Frequency Conversion. <i>Physical Review Letters</i> , 2018, 120, 203601. | 2.9 | 58 |
| 17 | Robust photonic entanglement distribution by state-independent encoding onto decoherence-free subspace. <i>Nature Photonics</i> , 2008, 2, 488-491. | 15.6 | 53 |
| 18 | Demonstration of Local Expansion Toward Large-Scale Entangled Webs. <i>Physical Review Letters</i> , 2010, 105, 210503. | 2.9 | 45 |

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|----|---|-----|-----------|
| 19 | Experimental time-reversed adaptive Bell measurement towards all-photon quantum repeaters. Nature Communications, 2019, 10, 378. | 5.8 | 43 |
| 20 | High-fidelity conversion of photonic quantum information to telecommunication wavelength with superconducting single-photon detectors. Physical Review A, 2013, 87, . | 1.0 | 37 |
| 21 | Anomalous time delays and quantum weak measurements in optical micro-resonators. Nature Communications, 2016, 7, 13488. | 5.8 | 37 |
| 22 | Stimulated Brillouin scattering and Brillouin-coupled four-wave-mixing in a silica microbottle resonator. Optics Express, 2016, 24, 12082. | 1.7 | 37 |
| 23 | Blind quantum computation over a collective-noise channel. Physical Review A, 2016, 93, . | 1.0 | 35 |
| 24 | Frequency comb generation in a quadratic nonlinear waveguide resonator. Optics Express, 2018, 26, 15551. | 1.7 | 35 |
| 25 | Observation of optomechanical coupling in a microbottle resonator. Laser and Photonics Reviews, 2016, 10, 603-611. | 4.4 | 32 |
| 26 | High-fidelity entanglement swapping and generation of three-qubit GHZ state using asynchronous telecom photon pair sources. Scientific Reports, 2018, 8, 1446. | 1.6 | 32 |
| 27 | Frequency down-conversion of 637 nm light to the telecommunication band for non-classical light emitted from NV centers in diamond. Optics Express, 2014, 22, 11205. | 1.7 | 30 |
| 28 | Optimal local expansion of $\langle W \rangle$ states using linear optics and Fock states. Physical Review A, 2011, 83, . | 1.0 | 29 |
| 29 | Distillation of photon entanglement using a plasmonic metamaterial. Scientific Reports, 2016, 5, 18313. | 1.6 | 29 |
| 30 | Quantum key distribution with setting-choice-independently correlated light sources. Npj Quantum Information, 2019, 5, . | 2.8 | 29 |
| 31 | Simple experimental scheme of preparing a four-photon entangled state for the teleportation-based realization of a linear optical controlled-NOT gate. Physical Review A, 2005, 71, . | 1.0 | 27 |
| 32 | Optimal entanglement generation for efficient hybrid quantum repeaters. Physical Review A, 2009, 80, . | 1.0 | 26 |
| 33 | Frequency-Multiplexed Photon Pairs Over 1000 Modes from a Quadratic Nonlinear Optical Waveguide Resonator with a Singly Resonant Configuration. Physical Review Letters, 2019, 123, 193603. | 2.9 | 26 |
| 34 | Fidelity estimation and entanglement verification for experimentally produced four-qubit cluster states. Physical Review A, 2006, 74, . | 1.0 | 25 |
| 35 | Efficient Decoherence-Free Entanglement Distribution over Lossy Quantum Channels. Physical Review Letters, 2011, 106, 110503. | 2.9 | 21 |
| 36 | Heralded single excitation of atomic ensemble via solid-state-based telecom photon detection. Optica, 2016, 3, 1279. | 4.8 | 20 |

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|----|---|-----|-----------|
| 37 | Visible light emission from a silica microbottle resonator by second- and third-harmonic generation. Optics Letters, 2016, 41, 5793. | 1.7 | 20 |
| 38 | Experimental ancilla-assisted qubit transmission against correlated noise using quantum parity checking. New Journal of Physics, 2007, 9, 191-191. | 1.2 | 19 |
| 39 | Security of quantum key distribution with light sources that are not independently and identically distributed. Physical Review A, 2016, 93, . | 1.0 | 18 |
| 40 | Mach-Zehnder interferometer using frequency-domain beamsplitter. Optics Express, 2017, 25, 12052. | 1.7 | 18 |
| 41 | Reactivity between Sn–Ag Solder and Au/Ni–Co Plating to Form Intermetallic Phases. Materials Transactions, 2005, 46, 2406-2412. | 0.4 | 17 |
| 42 | Nonclassical two-photon interference between independent telecommunication light pulses converted by difference-frequency generation. Physical Review A, 2013, 88, . | 1.0 | 17 |
| 43 | Universal gates for transforming multipartite entangled Dicke states. New Journal of Physics, 2014, 16, 023005. | 1.2 | 17 |
| 44 | Superconducting coincidence photon detector with short timing jitter. Applied Physics Letters, 2018, 112, . | 1.5 | 17 |
| 45 | Measurement-device-independent quantum key distribution for Scarani-Acin-Ribordy-Gisin 04 protocol. Scientific Reports, 2014, 4, 5236. | 1.6 | 16 |
| 46 | Controlling slow and fast light and dynamic pulse-splitting with tunable optical gain in a whispering-gallery-mode microcavity. Applied Physics Letters, 2016, 108, 181105. | 1.5 | 15 |
| 47 | High visibility Hong-Ou-Mandel interference via a time-resolved coincidence measurement. Optics Express, 2017, 25, 12069. | 1.7 | 14 |
| 48 | An opto-electro-mechanical system based on evanescently-coupled optical microbottle and electromechanical resonator. Applied Physics Letters, 2018, 112, . | 1.5 | 13 |
| 49 | Reliable Decentralized Diagnosis of Discrete Event Systems Using the Conjunctive Architecture. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2014, E97.A, 1605-1614. | 0.2 | 13 |
| 50 | Vibrational Spectra of $\text{I}^{2-}\text{â}^3\text{-Type BEDT-TTF Salts: Relationship between Conducting Property, Time-Averaged Site Charge and Inter-Molecular Distance. Crystals, 2012, 2, 893-934.$ | 1.0 | 12 |
| 51 | Observation of two output light pulses from a partial wavelength converter preserving phase of an input light at a single-photon level. Optics Express, 2013, 21, 27865. | 1.7 | 12 |
| 52 | Boosting up quantum key distribution by learning statistics of practical single-photon sources. New Journal of Physics, 2009, 11, 113033. | 1.2 | 11 |
| 53 | Robustness of quantum communication based on a decoherence-free subspace using a counter-propagating weak coherent light pulse. Physical Review A, 2013, 87, . | 1.0 | 11 |
| 54 | Massive-mode polarization entangled biphoton frequency comb. Scientific Reports, 2022, 12, . | 1.6 | 11 |

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|----|---|-----|-----------|
| 55 | Selective entanglement breaking. <i>Physical Review A</i> , 2007, 75, . | 1.0 | 10 |
| 56 | Active control of a plasmonic metamaterial for quantum state engineering. <i>Physical Review A</i> , 2018, 97, . | 1.0 | 9 |
| 57 | Computation of the delay bounds and synthesis of diagnosers for decentralized diagnosis with conditional decisions. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2017, 27, 45-84. | 0.6 | 8 |
| 58 | Cavity-enhanced broadband photonic Rabi oscillation. <i>Physical Review A</i> , 2021, 103, . | 1.0 | 7 |
| 59 | Conjunctive Decentralized Diagnosis of Discrete Event Systems*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013, 46, 67-72. | 0.4 | 5 |
| 60 | Fabrication and Characterization of Superconducting Nanowire Single-Photon Detectors on Si Waveguide. <i>IEEE Transactions on Applied Superconductivity</i> , 2015, 25, 1-4. | 1.1 | 4 |
| 61 | Extracting an entangled photon pair from collectively decohered pairs at a telecommunication wavelength. <i>Optics Express</i> , 2015, 23, 13545. | 1.7 | 4 |
| 62 | Online Synthesis of Conjunctive Decentralized Diagnosers for Discrete Event Systems. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2015, E98.A, 650-653. | 0.2 | 4 |
| 63 | 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. | 1.1 | 3 |
| 64 | Embedding watermark in qubit strings using error correction coding. , 2005, , . | | 2 |
| 65 | Quantum Information Processing with Superconducting Nanowire Single-Photon Detectors. <i>IEICE Transactions on Electronics</i> , 2019, E102.C, 224-229. | 0.3 | 2 |
| 66 | Robust entanglement distribution via telecom fibre assisted by an asynchronous counter-propagating laser light. <i>Npj Quantum Information</i> , 2020, 6, . | 2.8 | 2 |
| 67 | Local transformation of two EPR photon pairs into a three-photon W state. , 2009, , . | | 1 |
| 68 | High-fidelity frequency down-conversion of visible entangled photon pairs with superconducting single-photon detectors. , 2014, , . | | 1 |
| 69 | Quantum Information Networks with Superconducting Nanowire Single-Photon Detectors. <i>Quantum Science and Technology</i> , 2016, , 107-135. | 1.5 | 1 |
| 70 | 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. | 1.6 | 1 |
| 71 | 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. | 1.1 | 1 |
| 72 | 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 |

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|----|--|-----|-----------|
| 73 | Optical Frequency Tweezers. <i>Physical Review Applied</i> , 2022, 17, . | 1.5 | 1 |
| 74 | A Four-Photon Entangled State for Linear Optical Quantum Information Processing. <i>AIP Conference Proceedings</i> , 2004, , . | 0.3 | 0 |
| 75 | A distribution scheme for qubit over collective-noise channel. , 2005, , . | | 0 |
| 76 | Simple experimental generation of a four-photon cluster state and distinguishing classes of genuine four-qubit entanglement using witness operators. , 2007, , . | | 0 |
| 77 | Preparation of a three-photon <i>W</i> state from two EPR photon pairs by LOCC. , 2009, , . | | 0 |
| 78 | Process Characterization of Experimental Photonic One-Way Quantum Computing. , 2009, , . | | 0 |
| 79 | Preparation and Local Manipulation of Photonic <i>W</i> States Using Expansion and Fusion Gates. , 2011, , . | | 0 |
| 80 | Frequency down-conversion of non-classical light from visible wavelength to telecom wavelength using difference-frequency generation. , 2011, , . | | 0 |
| 81 | Process tomography of elementary gates in optical one-way quantum computing. , 2011, , . | | 0 |
| 82 | Efficient and robust photonic entanglement distribution using decoherence-free subspace. , 2011, , . | | 0 |
| 83 | A photonic quantum interface for visible-to-telecommunication wavelength conversion. , 2012, , . | | 0 |
| 84 | Non-classical interference between two telecom photons with wavelength conversion. , 2013, , . | | 0 |
| 85 | Fault-tolerant quantum computation and communication on a distributed 2D array of small local systems. , 2014, , . | | 0 |
| 86 | Characterization of NbTiN-Based Superconducting Nanowire Single-Photon Detectors on Si Waveguide. , 2015, , . | | 0 |
| 87 | Quantum Entanglement Distillation Using an Optical Metamaterial. , 2015, , . | | 0 |
| 88 | Stimulated Brillouin scattering coupled four-wave mixing in a microbottle resonator. , 2016, , . | | 0 |
| 89 | Frequency-Multiplexed Singly-Resonant Photon Pairs from a Quadratic Nonlinear Waveguide Resonator. , 2019, , . | | 0 |
| 90 | Quantum Internet. <i>TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan)</i> , 2021, 56, 73-81. | 0.1 | 0 |

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|----|---|-----|-----------|
| 91 | An Elementary Optical Gate for Expanding Symmetrically Shared Entanglement. Lecture Notes in Computer Science, 2008, , 70-82. | 1.0 | 0 |
| 92 | Frequency comb generation in a quadratic nonlinear waveguide resonator. , 2019, , . | | 0 |
| 93 | 1000-mode frequency multiplexed singly-resonant photon pairs. , 2020, , . | | 0 |