

Akihisa Tomita

List of Publications by Year in descending order

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189
papers

6,327
citations

117571

34
h-index

66879

78
g-index

191
all docs

191
docs citations

191
times ranked

3690
citing authors

#	ARTICLE	IF	CITATIONS
1	Field test of quantum key distribution in the Tokyo QKD Network. <i>Optics Express</i> , 2011, 19, 10387.	1.7	816
2	Superprism phenomena in photonic crystals. <i>Physical Review B</i> , 1998, 58, R10096-R10099.	1.1	811
3	Self-collimating phenomena in photonic crystals. <i>Applied Physics Letters</i> , 1999, 74, 1212-1214.	1.5	697
4	Quantum information with Gaussian states. <i>Physics Reports</i> , 2007, 448, 1-111.	10.3	321
5	Lightwave propagation through a 120° sharply bent single-line-defect photonic crystal waveguide. <i>Applied Physics Letters</i> , 2000, 76, 952-954.	1.5	270
6	Photonic crystals for micro lightwave circuits using wavelength-dependent angular beam steering. <i>Applied Physics Letters</i> , 1999, 74, 1370-1372.	1.5	259
7	Teleportation of an unknown state by W state. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 296, 161-164.	0.9	199
8	Superprism phenomena in photonic crystals: toward microscale lightwave circuits. <i>Journal of Lightwave Technology</i> , 1999, 17, 2032-2038.	2.7	195
9	Balanced, gated-mode photon detector for quantum-bit discrimination at 1550 nm. <i>Optics Letters</i> , 2002, 27, 1827.	1.7	122
10	High-Speed Quantum Key Distribution System for 1-Mbps Real-Time Key Generation. <i>IEEE Journal of Quantum Electronics</i> , 2012, 48, 542-550.	1.0	119
11	Security in Photonic Networks: Threats and Security Enhancement. <i>Journal of Lightwave Technology</i> , 2011, 29, 3210-3222.	2.7	114
12	High-Threshold Fault-Tolerant Quantum Computation with Analog Quantum Error Correction. <i>Physical Review X</i> , 2018, 8, .	2.8	112
13	High-speed wavelength-division multiplexing quantum key distribution system. <i>Optics Letters</i> , 2012, 37, 223.	1.7	107
14	Ultra fast quantum key distribution over a 97 km installed telecom fiber with wavelength division multiplexing clock synchronization. <i>Optics Express</i> , 2008, 16, 11354.	1.7	92
15	Generation of a pulsed polarization entangled photon pair using a Sagnac interferometer. <i>Physical Review A</i> , 2004, 69, .	1.0	88
16	Single-photon interference experiment over 100 km for quantum cryptography system using balanced gated-mode photon detector. <i>Electronics Letters</i> , 2003, 39, 1199.	0.5	86
17	THz optical-frequency conversion of 1 Gb/s-signals using highly nondegenerate four-wave mixing in an InGaAsP semiconductor laser. <i>IEEE Photonics Technology Letters</i> , 1991, 3, 1021-1023.	1.3	83
18	Remote state preparation of an entangled state. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2002, 4, 380-382.	1.4	80

#	ARTICLE	IF	CITATIONS
19	Single-photon Interference over 150 km Transmission Using Silica-based Integrated-optic Interferometers for Quantum Cryptography. Japanese Journal of Applied Physics, 2004, 43, L1217-L1219.	0.8	76
20	Quantum key distribution with an efficient countermeasure against correlated intensity fluctuations in optical pulses. Npj Quantum Information, 2018, 4, .	2.8	62
21	Performance of hybrid entanglement photon pair source for quantum key distribution. Applied Physics Letters, 2009, 95, .	1.5	58
22	Transmission Experiment of Quantum Keys over 50 km Using High-Performance Quantum-Dot Single-Photon Source at 1.5 μm Wavelength. Applied Physics Express, 2010, 3, 092802.	1.1	58
23	Analog Quantum Error Correction with Encoding a Qubit into an Oscillator. Physical Review Letters, 2017, 119, 180507.	2.9	58
24	A new density matrix theory for semiconductor lasers, including non-Markovian intraband relaxation and its application to nonlinear gain. IEEE Journal of Quantum Electronics, 1991, 27, 1630-1641.	1.0	56
25	Photonic-crystal spot-size converter. Applied Physics Letters, 2000, 76, 268-270.	1.5	55
26	Holographic diversity interferometry for optical storage. Optics Express, 2011, 19, 13436.	1.7	53
27	Efficient and low-noise single-photon avalanche photodiode for 1244-GHz clocked quantum key distribution. Optics Express, 2011, 19, 20531.	1.7	50
28	Observation of highly nondegenerate four-wave mixing (≈ 31 THz) in an InGaAsP multiple quantum well laser. Applied Physics Letters, 1991, 58, 1458-1460.	1.5	49
29	Carrier-induced lasing wavelength shift for quantum well laser diodes. IEEE Journal of Quantum Electronics, 1987, 23, 1155-1159.	1.0	45
30	Optical-confinement-factor dependencies of the K factor, differential gain, and nonlinear gain coefficient for 1.55 μm InGaAs/InGaAsP MQW and strained-MQW lasers. IEEE Photonics Technology Letters, 1991, 3, 773-776.	1.3	44
31	Mode identification of high-quality-factor single-defect nanocavities in quantum dot-embedded photonic crystals. Journal of Applied Physics, 2007, 101, 073107.	1.1	44
32	Quantum encoder and decoder for practical quantum key distribution using a planar lightwave circuit. Journal of Modern Optics, 2008, 55, 1953-1970.	0.6	44
33	Modified E91 protocol demonstration with hybrid entanglement photon source. Optics Express, 2014, 22, 13616.	1.7	41
34	Efficient exciton energy transfer between widely separated quantum wells at low temperatures. Physical Review B, 1996, 53, 10793-10803.	1.1	40
35	Evidence of nonuniform carrier distribution in multiple quantum well lasers. Applied Physics Letters, 1997, 71, 767-769.	1.5	37
36	Evaluation of the phase randomness of a light source in quantum-key-distribution systems with an attenuated laser. Physical Review A, 2014, 90, .	1.0	35

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37	Femtosecond hole relaxation in type modulation-doped quantum wells. <i>Physical Review B</i> , 1993, 48, 5708-5711.	1.1	32
38	Technologies for Quantum Key Distribution Networks Integrated With Optical Communication Networks. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2009, 15, 1591-1601.	1.9	32
39	Practical Quantum Cryptosystem for Metro Area Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007, 13, 1031-1038.	1.9	31
40	Spatial cross modulation method using a random diffuser and phase-only spatial light modulator for constructing arbitrary complex fields. <i>Optics Express</i> , 2014, 22, 3968.	1.7	31
41	Mode demultiplexer using angularly multiplexed volume holograms. <i>Optics Express</i> , 2013, 21, 12920.	1.7	29
42	Influence of free carrier plasma effect on carrier-induced refractive index change for quantum-well lasers. <i>IEEE Photonics Technology Letters</i> , 1993, 5, 16-19.	1.3	26
43	The generation of polarization-entangled photon pairs using periodically poled lithium niobate waveguides in a fibre loop. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007, 40, 437-443.	0.6	23
44	Highly efficient generation of pulsed photon pairs with bulk periodically poled potassium titanyl phosphate. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2004, 21, 2081.	0.9	22
45	Afterpulse-like phenomenon of superconducting single photon detector in high speed quantum key distribution system. <i>Optics Express</i> , 2011, 19, 19562.	1.7	22
46	Selective multimode excitation using volume holographic mode multiplexer. <i>Optics Letters</i> , 2013, 38, 769.	1.7	22
47	Turn-off characteristics of bistable laser diode. <i>Journal of Applied Physics</i> , 1986, 59, 1839-1842.	1.1	21
48	Effects of Spectral Broadening and Cross Relaxation on the Gain Saturation Characteristics of Quantum Dot Laser Amplifiers. <i>Japanese Journal of Applied Physics</i> , 1999, 38, 5087-5095.	0.8	21
49	Splitting of triply degenerate refractive indices by photonic crystals. <i>Physical Review B</i> , 2000, 62, 1477-1480.	1.1	21
50	Digital phase conjugate mirror by parallel arrangement of two phase-only spatial light modulators. <i>Optics Express</i> , 2014, 22, 11918.	1.7	21
51	Excitonic molecule in a quantum dot: Photoluminescence lifetime of a single InAs/GaAs quantum dot. <i>Physical Review B</i> , 2005, 72, .	1.1	18
52	Intensity fluctuation of a gain-switched semiconductor laser for quantum key distribution systems. <i>Optics Express</i> , 2017, 25, 622.	1.7	17
53	Creation of a polarization W state using optical fibre multiports. <i>Journal of Modern Optics</i> , 2005, 52, 755-761.	0.6	16
54	Highly efficient polarization-entangled photon source using periodically poled lithium niobate waveguides. <i>Optics Communications</i> , 2006, 267, 278-281.	1.0	16

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55	Tracking quantum error correction. <i>Physical Review A</i> , 2018, 98, .	1.0	15
56	High-frequency modulation in characteristics in 1.5 μm compressively strained multiquantum well lasers with large number of wells. <i>Electronics Letters</i> , 1992, 28, 1456.	0.5	14
57	Reply to "Comment on: Teleportation of an unknown state by W-state". <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 300, 538-539.	0.9	14
58	Two-channel algorithm for single-shot, high-resolution measurement of optical wavefronts using two image sensors. <i>Applied Optics</i> , 2015, 54, 8644.	2.1	14
59	A framework for measuring weak values without weak interactions and its diagrammatic representation. <i>New Journal of Physics</i> , 2019, 21, 043013.	1.2	14
60	Hypothesis testing for an entangled state produced by spontaneous parametric down-conversion. <i>Physical Review A</i> , 2006, 74, .	1.0	13
61	High speed quantum key distribution system. <i>Optical Fiber Technology</i> , 2010, 16, 55-62.	1.4	13
62	Volume holographic spatial mode demultiplexer with a dual-wavelength method. <i>Applied Optics</i> , 2018, 57, 146.	0.9	13
63	5:1 on-off contrast InGaAs/InP multiple quantum well Fabry-Perot Åtalon modulator. <i>Applied Physics Letters</i> , 1989, 55, 1817-1819.	1.5	12
64	Preparation of a pulsed polarization entangled photon pair via interference. <i>Optics Communications</i> , 2004, 235, 247-252.	1.0	11
65	Symbol Error Characteristics of Hybrid-Modulated Holographic Data Storage by Intensity and Multi Phase Modulation. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 09ME05.	0.8	11
66	Spectral hole burning and carrier-heating effect on the transient optical nonlinearity of highly carrier-injected semiconductors. <i>IEEE Journal of Quantum Electronics</i> , 1994, 30, 1981-1994.	1.0	10
67	Many-body effects, space-charge potential, and valence-band mixing on the optical gain in quantum-well structures. <i>Physical Review B</i> , 1996, 54, 5609-5619.	1.1	10
68	Experimental investigation of pulsed entangled photons and photonic quantum channels. , 2002, 4917, 13.		10
69	One-Way Quantum Key Distribution System Based on Planar Lightwave Circuits. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 5344-5348.	0.8	10
70	Double-Referential Holography and Spatial Quadrature Amplitude Modulation. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 09LD13.	0.8	10
71	Experimental verification of fault tolerant quantum key distribution protocol. <i>Optics Express</i> , 2005, 13, 9415.	1.7	9
72	Quantum entanglement swapping with spontaneous parametric down-conversion. <i>Physical Review A</i> , 2004, 69, .	1.0	8

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73	Operational formulation of weak values without probe systems. <i>Physical Review A</i> , 2020, 101, .	1.0	8
74	Conduction-Band Discontinuity of InAsP/InP Heterojunction. <i>Japanese Journal of Applied Physics</i> , 1998, 37, 3915-3918.	0.8	7
75	Generation of a pulsed polarization entangled-photon pair via a two-crystal geometry. <i>Physical Review A</i> , 2003, 67, .	1.0	7
76	Introduction to the Issue on Single Photon Counting: Detectors and Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007, 13, 849-851.	1.9	7
77	Ensuring Quality of Shared Keys Through Quantum Key Distribution for Practical Application. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2009, 15, 1622-1629.	1.9	7
78	Multilayer Collinear Holographic Memory with Movable Random Phase Mask. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 09ME10.	0.8	7
79	Digital Image Diffusion Technique for Suppressing Interpage Crosstalk in Holographic Data Storage. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 09LD03.	0.8	7
80	Observation of Antinormally Ordered Hanbury Brownâ€“Twiss Correlations. <i>Physical Review Letters</i> , 2004, 92, 113601.	2.9	6
81	Influence of pure dephasing by phonons on exciton-photon interfaces: Quantum microscopic theory. <i>Physical Review B</i> , 2006, 73, .	1.1	6
82	Generation of phase-squeezed optical pulses with large coherent amplitudes by post-selection of single photon and weak cross-Kerr non-linearity. <i>Quantum Studies: Mathematics and Foundations</i> , 2017, 4, 159-169.	0.4	6
83	Implementation Security Certification of Decoyâ€“Quantum Key Distribution Systems. <i>Advanced Quantum Technologies</i> , 2019, 2, 1900005.	1.8	6
84	Free carrier effect on the refractive index change in quantum-well structures. <i>IEEE Journal of Quantum Electronics</i> , 1994, 30, 2798-2802.	1.0	5
85	Complete Bell state measurement with a solid state device. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001, 282, 331-335.	0.9	5
86	MEASURED QUANTUM FOURIER TRANSFORM OF 1024 QUBITS ON FIBER OPTICS. <i>International Journal of Quantum Information</i> , 2004, 02, 119-131.	0.6	5
87	Time uncertainty of a photon pair creation in a bulk periodically poled potassium titanyl phosphate pumped by a femtosecond laser. <i>New Journal of Physics</i> , 2006, 8, 38-38.	1.2	5
88	Quantum-nondemolition measurement of photon arrival using an atom-cavity system. <i>Physical Review A</i> , 2007, 75, .	1.0	5
89	Reference-free holographic diversity interferometry via iterative measurements for high accuracy phase detection. <i>Optics Express</i> , 2016, 24, 24739.	1.7	5
90	Complex counterpart of variance in quantum measurements for pre- and postselected systems. <i>Physical Review Research</i> , 2021, 3, .	1.3	5

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91	Superprism phenomena in photonic crystals. , 1999, , .		5
92	Triple-Exposure Method for Fabricating Triangular-Lattice Photonic Crystals. Japanese Journal of Applied Physics, 2000, 39, 4236-4240.	0.8	4
93	Efficient generation of a photon pair in a bulk periodically poled potassium titanyl phosphate. Optics Communications, 2007, 278, 363-367.	1.0	4
94	Experimental demonstration of quantum leader election in linear optics. Physical Review A, 2008, 77, .	1.0	4
95	Statistical analysis of testing of an entangled state based on the Poisson distribution framework. New Journal of Physics, 2008, 10, 043029.	1.2	4
96	Entanglement generation by communication using phase-squeezed light with photon loss. Physical Review A, 2016, 93, .	1.0	4
97	State preparation robust to modulation signal degradation by use of a dual parallel modulator for high-speed BB84 quantum key distribution systems. Optics Express, 2020, 28, 13965.	1.7	4
98	Optical feedback effect on bistable laser diodes. Optical and Quantum Electronics, 1987, 19, S75-S82.	1.5	3
99	Proposal of step barrier structures to reduce hole localization in multiple quantum well structures. Journal of Applied Physics, 1995, 77, 2029-2031.	1.1	3
100	Security of classical noise-based cryptography. Journal of Optics B: Quantum and Semiclassical Optics, 2000, 2, 705-710.	1.4	3
101	Quantum key distribution using two coherent states of light and their superposition. Physical Review A, 2000, 62, .	1.0	3
102	ANTINORMALLY ORDERED PHOTODETECTION OF CONTINUOUS-MODE FIELD. International Journal of Quantum Information, 2004, 02, 101-117.	0.6	3
103	High Quality Factor Photonic Crystal Micro-Cavity Design to Utilize Semiconductor Nonlinearities. Japanese Journal of Applied Physics, 2006, 45, 1612-1616.	0.8	3
104	Four photons interfering but showing the two-photon interference behaviour. Journal of Modern Optics, 2006, 53, 1003-1009.	0.6	3
105	Scalable QKD network using simple key-management technique with on-demand crypto-key supply. , 2008, , .		3
106	Entanglement generation by communication using squeezed states. Physical Review A, 2013, 88, .	1.0	3
107	Progressive phase conjugation and its application in reconfigurable spatial-mode extraction and conversion. , 2014, , .		3
108	Fundamental demonstration of mode-group demultiplexing technique based on volume holographic demultiplexer. , 2017, , .		3

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109	Experimental implementation of multiplexing/demultiplexing in digital images using virtual phase conjugation for holographic data storage. <i>Optical Review</i> , 2018, 25, 549-554.	1.2	3
110	Quantum Key Distribution Network and its Applications. , 2018, , .		3
111	Spatial mode exchange technique using volume holograms with a random optical diffuser for reduction of crosstalk. <i>Optical Review</i> , 2021, 28, 181-189.	1.2	3
112	Recent Progress in Quantum Key Distribution Network Technologies. , 2006, , .		2
113	Development of Scanning Near-Field Optical Microscope Working under Cryogenic Temperature and Strong Magnetic Field. <i>Optical Review</i> , 2006, 13, 279-282.	1.2	2
114	97-km QKD field trial using PLC-based one-way interferometers, SSPDs and WDM synchronization. , 2008, , .		2
115	Separation of LP modes using volume holographic demultiplexer with a dual-wavelength method for mode division multiplexing. , 2013, , .		2
116	High-speed bridge circuit for InGaAs avalanche photodiode single-photon detector. <i>Proceedings of SPIE</i> , 2014, , .	0.8	2
117	Mode conversion based on dual-phase modulation utilizing interference of two-phase-modulated beams. <i>Optical Review</i> , 2018, 25, 734-742.	1.2	2
118	Virtual phase conjugation based optical tomography for single-shot three-dimensional imaging. <i>Optics Express</i> , 2018, 26, 3779.	1.7	2
119	Strain effect on K factor, differential gain and nonlinear gain coefficient for InGaAs/InGaAsP strained multiquantum well lasers. <i>Electronics Letters</i> , 1993, 29, 579.	0.5	1
120	Quantum Information Processing with Fiber Optics: Quantum Fourier Transform of 1024 Qubits. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2005, 99, 204.	0.2	1
121	Generation of polarization-entangled photon pairs using periodically poled lithium niobate waveguides in a fiber loop. , 2006, , .		1
122	Proposal of an eavesdropping experiment for BB84 QKD protocol with 1â†’3 phase-covariant quantum doner. , 2009, , .		1
123	Photon-arrival detector with a controlled phase flip operation between a photon and a V-type atomic system. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, 836.	0.9	1
124	Ultra-wide tuning range of reconfigurable optical add-drop multiplexer using photorefractive polymer. <i>Proceedings of SPIE</i> , 2011, , .	0.8	1
125	All-optical demultiplexer based on dynamic multiple holograms for optical MIMO processing and mode division multiplexing. , 2011, , .		1
126	Experimental Demonstration Of Single-Photon Detection Using InGaAs Avalanche Photodiode Operated In Sub-Geiger Mode. , 2011, , .		1

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127	Optical inter-satellite communication with dynamically reconfigurable optical device using Sn ₂ P ₂ S ₆ crystal. , 2011, , .		1
128	Sub-Geiger mode single-photon detector using a low-dark-current InGaAs avalanche photodiode. , 2012, , .		1
129	Dynamically reconfigurable characteristics of a double phase conjugate mirror using Sn ₂ P ₂ S ₆ crystals and their application to optical inter-satellite communication. Optical Review, 2014, 21, 415-424.	1.2	1
130	Optical tomography using a random diffuser and digital phase conjugation. Proceedings of SPIE, 2015, , .	0.8	1
131	Experiment on three-dimensional display using spatial cross modulation method. Proceedings of SPIE, 2015, , .	0.8	1
132	Parallel and simultaneous spatial mode conversion using photorefractive crystal for photonic cross-connect. , 2015, , .		1
133	Virtual interferogram-generation algorithm for robust complex amplitude measurement using two interferograms. Optics Express, 2016, 24, 24002.	1.7	1
134	Spatial-mode conversion using random diffuser and spatial light modulator for reduction of modal crosstalk. , 2016, , .		1
135	Digital image multiplexing/demultiplexing method using spatial spectral diffusion and virtual phase conjugation technique for reduction of dynamic range consumption in holographic medium. Japanese Journal of Applied Physics, 2017, 56, 09NA07.	0.8	1
136	Classical reconstruction of interference patterns of position-wave-vector-entangled photon pairs by the time-reversal method. Physical Review A, 2018, 97, .	1.0	1
137	Highly Accurate Mode Conversion Using Iterative Spatial Cross Modulation. , 2019, , .		1
138	Selective spatial mode attenuator using phase-intensity-phase modulation toward mode-division multiplexing transmission. , 2018, , .		1
139	Dispersive-Type Optical Bistability in a Self-Electrooptic-Effect Etalon. Japanese Journal of Applied Physics, 1989, 28, 1523-1524.	0.8	0
140	Optical confinement factor dependence of K-factor, differential gain, and nonlinear gain in 1.55- μ m MQW and strained MQW lasers. IEEE Transactions on Electron Devices, 1991, 38, 2698.	1.6	0
141	Femtosecond dynamics of non-thermal holes in n-modulation-doped quantum wells. Semiconductor Science and Technology, 1994, 9, 449-452.	1.0	0
142	Quantum-classical crossover in carrier transport. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 233, 115-120.	0.9	0
143	Space charge and many-body effects on the optical gain in semiconductor quantum wells for advanced laser design. , 1999, , .		0
144	Quantum entanglement swapping with spontaneous parametric down conversion. , 2003, , .		0

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145	1024-Qubits-Quantum Fourier Transform on a Fiber-optics circuit. , 2005, , .		0
146	Recent development of technologies for quantum communication. , 2005, , .		0
147	Time-resolved photoluminescence measurement of exciton and biexciton in an InAs/GaAs single quantum dot. , 2005, , .		0
148	Temporal behaviour of field in high quality factor photonic crystal microcavity structure. Optics Express, 2005, 13, 460.	1.7	0
149	Coherent control of exciton in a single InAs/GaAs quantum dot. , 2007, , .		0
150	Quantum key distribution system for metropolitan-area networks. Proceedings of SPIE, 2007, , .	0.8	0
151	Experimental Decoy State Method for Secure Quantum Key Distribution. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
152	Measurement of the off-diagonal geometric phase of a mixed-state photon via a Franson interferometer. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 362, 269-272.	0.9	0
153	Gated Geiger mode operation and after pulse probability measurement of the InAlAs APD. , 2008, , .		0
154	Quantum key distribution systems and field trials. , 2008, , .		0
155	Fast Quantum Cryptography System Using Single Photon Communication. The Review of Laser Engineering, 2008, 36, 487-492.	0.0	0
156	Test and measurement on quantum key distribution systems. , 2009, , .		0
157	Implementation of a High-Speed Quantum Key Distribution System for Metropolitan Networks. , 2010, , .		0
158	Apodization along thickness direction of holographic transmission grating in Sb-doped Sn ₂ P ₂ S ₆ . , 2011, , .		0
159	Hybrid entanglement photon pair source for fiber-space flexible QKD network. , 2011, , .		0
160	Autonomous and dynamic reconfigurable waveguide for optical interconnection with large shift-tolerance. Proceedings of SPIE, 2011, , .	0.8	0
161	A novel conceptual model of secure photonic networks. , 2011, , .		0
162	High-photon-detection-efficiency silicon avalanche photodiode with charge-sensitive amplifier. , 2011, , .		0

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163	Field demonstration of high-speed wavelength-division multiplexing quantum key distribution system and its stabilized operation. , 2012, , .		0
164	Novel photon detection technologies for quantum communications. Proceedings of SPIE, 2012, , .	0.8	0
165	Holographic-diversity interferometry for reference-free phase detection. , 2013, , .		0
166	Long-term field demonstration of WDM quantum key distribution system with stabilization control. , 2013, , .		0
167	Background light reduction method with a double phase conjugate mirror and a phase plate for optical inter-satellite communications. Japanese Journal of Applied Physics, 2014, 53, 08MB13.	0.8	0
168	Evaluation of the phase correlation between the optical pulses for transmission in quantum key distribution. Proceedings of SPIE, 2014, , .	0.8	0
169	Expansion method for depth measurement range based on number theory using two wavelength light sources. , 2015, , .		0
170	Virtual interferogram-generation algorithm for phase-shifting digital holography. , 2015, , .		0
171	Experiment on three-dimensional display using spatial cross modulation method with an optical random diffuser. , 2015, , .		0
172	Optimization of diffraction efficiency and coupling efficiency in spatial mode conversion for photonic cross connector. , 2015, , .		0
173	High-resolution and simultaneous measurement along the depth direction using virtual phase conjugation for optical tomography. , 2015, , .		0
174	Improvement of measurement-speed by virtual optical-system for confocal laser scanning microscope. , 2015, , .		0
175	Digital confocal microscopy using a virtual 4f-system based on numerical beam propagation for depth measurement without mechanical scanning. Japanese Journal of Applied Physics, 2016, 55, 08RE04.	0.8	0
176	Highly accurate spatial mode generation using spatial cross modulation method for mode division multiplexing. Proceedings of SPIE, 2016, , .	0.8	0
177	Virtual interferogram-generation algorithm for phase measurement using two interferograms. , 2016, , .		0
178	Selective mode conversion using dual-phase modulation. , 2017, , .		0
179	Compensation of optical aberration for improvement of image quality in virtual-phase-conjugation based optical tomography. , 2017, , .		0
180	Spatial mode demultiplexing technique using angularly multiplexed volume holograms with a phase plate. Japanese Journal of Applied Physics, 2017, 56, 09NA05.	0.8	0

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181	Holographic Diversity Detection of Spatial Quadrature Amplitude Modulation Signal for Dual-Stage Holographic Memory. , 2011, , .		0
182	Evaluation of the Performance in Multilayer Collinear Holographic Memory with Movable Random Phase Mask. , 2011, , .		0
183	Spatial Mode Excitation and Separation Using Spatial Phase Control Technology. , 2013, , .		0
184	Conversion and Extraction of Spatial Modes from a Multimode Fiber by Reference-Free Holographic-Diversity Interferometry. , 2013, , .		0
185	Measurement of differential mode delay using reference-free low-coherence digital holography. , 2018, , .		0
186	Implementation Security Certification of a Quantum Key Distribution System through Device Characterization. , 2019, , .		0
187	Wavefront superposition method for accurate and efficient mode conversion. Applied Optics, 2019, 58, 6899.	0.9	0
188	Photonic Realization of Quantum Information Systems. , 2006, , 243-275.		0
189	Photonic Realization of Quantum Information Systems. , 2006, , 243-275.		0