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	Spatial mode exchange technique using volume holograms with a random optical diffuser for reduction of crosstalk. Optical Review, 2021, 28, 181-189.	1.2	3
2	Complex counterpart of variance in quantum measurements for pre- and postselected systems. Physical Review Research, 2021, 3, .	1.3	5
3	Operational formulation of weak values without probe systems. Physical Review A, 2020, 101, .	1.0	8
4	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
5	Implementation Security Certification of Decoyâ€BB84 Quantum Key Distribution Systems. Advanced Quantum Technologies, 2019, 2, 1900005.	1.8	6
6	A framework for measuring weak values without weak interactions and its diagrammatic representation. New Journal of Physics, 2019, 21, 043013.	1.2	14
7	Highly Accurate Mode Conversion Using Iterative Spatial Cross Modulation. , 2019, , .		1
8	Implementation Security Certification of a Quantum Key Distribution System through Device Characterization. , 2019, , .		0
9	Wavefront superposition method for accurate and efficient mode conversion. Applied Optics, 2019, 58, 6899.	0.9	0
10	Classical reconstruction of interference patterns of position-wave-vectorâ€“entangled photon pairs by the time-reversal method. Physical Review A, 2018, 97, .	1.0	1
11	Quantum key distribution with an efficient countermeasure against correlated intensity fluctuations in optical pulses. Npj Quantum Information, 2018, 4, .	2.8	62
12	Mode conversion based on dual-phase modulation utilizing interference of two-phase-modulated beams. Optical Review, 2018, 25, 734-742.	1.2	2
13	Experimental implementation of multiplexing/demultiplexing in digital images using virtual phase conjugation for holographic data storage. Optical Review, 2018, 25, 549-554.	1.2	3
14	Quantum Key Distribution Network and its Applications. , 2018, , .		3
15	High-Threshold Fault-Tolerant Quantum Computation with Analog Quantum Error Correction. Physical Review X, 2018, 8, .	2.8	112
16	Virtual phase conjugation based optical tomography for single-shot three-dimensional imaging. Optics Express, 2018, 26, 3779.	1.7	2
17	Volume holographic spatial mode demultiplexer with a dual-wavelength method. Applied Optics, 2018, 57, 146.	0.9	13
18	Tracking quantum error correction. Physical Review A, 2018, 98, .	1.0	15

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19	Selective spatial mode attenuator using phase-intensity-phase modulation toward mode-division multiplexing transmission. , 2018, , .		1
20	Measurement of differential mode delay using reference-free low-coherence digital holography. , 2018, , .		0
21	Analog Quantum Error Correction with Encoding a Qubit into an Oscillator. Physical Review Letters, 2017, 119, 180507.	2.9	58
22	Generation of phase-squeezed optical pulses with large coherent amplitudes by post-selection of single photon and weak cross-Kerr non-linearity. Quantum Studies: Mathematics and Foundations, 2017, 4, 159-169.	0.4	6
23	Selective mode conversion using dual-phase modulation. , 2017, , .		0
24	Compensation of optical aberration for improvement of image quality in virtual-phase-conjugation based optical tomography. , 2017, , .		0
25	Fundamental demonstration of mode-group demultiplexing technique based on volume holographic demultiplexer. , 2017, , .		3
26	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
27	Intensity fluctuation of a gain-switched semiconductor laser for quantum key distribution systems. Optics Express, 2017, 25, 622.	1.7	17
28	Spatial mode demultiplexing technique using angularly multiplexed volume holograms with a phase plate. Japanese Journal of Applied Physics, 2017, 56, 09NA05.	0.8	0
29	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
30	Virtual interferogram-generation algorithm for robust complex amplitude measurement using two interferograms. Optics Express, 2016, 24, 24002.	1.7	1
31	Reference-free holographic diversity interferometry via iterative measurements for high accuracy phase detection. Optics Express, 2016, 24, 24739.	1.7	5
32	Entanglement generation by communication using phase-squeezed light with photon loss. Physical Review A, 2016, 93, .	1.0	4
33	Highly accurate spatial mode generation using spatial cross modulation method for mode division multiplexing. Proceedings of SPIE, 2016, , .	0.8	0
34	Spatial-mode conversion using random diffuser and spatial light modulator for reduction of modal crosstalk. , 2016, , .		1
35	Virtual interferogram-generation algorithm for phase measurement using two interferograms. , 2016, , .		0
36	Expansion method for depth measurement range based on number theory using two wavelength light sources. , 2015, , .		0

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37	Virtual interferogram-generation algorithm for phase-shifting digital holography. , 2015, , .		0
38	Two-channel algorithm for single-shot, high-resolution measurement of optical wavefronts using two image sensors. Applied Optics, 2015, 54, 8644.	2.1	14
39	Experiment on three-dimensional display using spatial cross modulation method with an optical random diffuser. , 2015, , .		0
40	Optimization of diffraction efficiency and coupling efficiency in spatial mode conversion for photonic cross connecter. , 2015, , .		0
41	High-resolution and simultaneous measurement along the depth direction using virtual phase conjugation for optical tomography. , 2015, , .		0
42	Improvement of measurement-speed by virtual optical-system for confocal laser scanning microscope. , 2015, , .		0
43	Optical tomography using a random diffuser and digital phase conjugation. Proceedings of SPIE, 2015, , .	0.8	1
44	Experiment on three-dimensional display using spatial cross modulation method. Proceedings of SPIE, 2015, , .	0.8	1
45	Parallel and simultaneous spatial mode conversion using photorefractive crystal for photonic cross-connect. , 2015, , .		1
46	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
47	Evaluation of the phase correlation between the optical pulses for transmission in quantum key distribution. Proceedings of SPIE, 2014, , .	0.8	0
48	Spatial cross modulation method using a random diffuser and phase-only spatial light modulator for constructing arbitrary complex fields. Optics Express, 2014, 22, 3968.	1.7	31
49	Digital phase conjugate mirror by parallel arrangement of two phase-only spatial light modulators. Optics Express, 2014, 22, 11918.	1.7	21
50	Modified E91 protocol demonstration with hybrid entanglement photon source. Optics Express, 2014, 22, 13616.	1.7	41
51	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
52	Progressive phase conjugation and its application in reconfigurable spatial-mode extraction and conversion. , 2014, , .		3
53	Dynamically reconfigurable characteristics of a double phase conjugate mirror using Sn2P2S6 crystals and their application to optical inter-satellite communication. Optical Review, 2014, 21, 415-424.	1.2	1
54	High-speed bridge circuit for InGaAs avalanche photodiode single-photon detector. Proceedings of SPIE, 2014, , .	0.8	2

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55	Entanglement generation by communication using squeezed states. Physical Review A, 2013, 88, .	1.0	3
56	Holographic-diversity interferometry for reference-free phase detection. , 2013, , .		0
57	Separation of LP modes using volume holographic demultiplexer with a dual-wavelength method for mode division multiplexing. , 2013, , .		2
58	Selective multimode excitation using volume holographic mode multiplexer. Optics Letters, 2013, 38, 769.	1.7	22
59	Mode demultiplexer using angularly multiplexed volume holograms. Optics Express, 2013, 21, 12920.	1.7	29
60	Digital Image Diffusion Technique for Suppressing Interpage Crosstalk in Holographic Data Storage. Japanese Journal of Applied Physics, 2013, 52, 09LD03.	0.8	7
61	Double-Referential Holography and Spatial Quadrature Amplitude Modulation. Japanese Journal of Applied Physics, 2013, 52, 09LD13.	0.8	10
62	Long-term field demonstration of WDM quantum key distribution system with stabilization control. , 2013, , .		0
63	Spatial Mode Excitation and Separation Using Spatial Phase Control Technology. , 2013, , .		0
64	Conversion and Extraction of Spatial Modes from a Multimode Fiber by Reference-Free Holographic-Diversity Interferometry. , 2013, , .		0
65	High-speed wavelength-division multiplexing quantum key distribution system. Optics Letters, 2012, 37, 223.	1.7	107
66	Field demonstration of high-speed wavelength-division multiplexing quantum key distribution system and its stabilized operation. , 2012, , .		0
67	Sub-Geiger mode single-photon detector using a low-dark-current InGaAs avalanche photodiode. , 2012, , .		1
68	Novel photon detection technologies for quantum communications. Proceedings of SPIE, 2012, , .	0.8	0
69	High-Speed Quantum Key Distribution System for 1-Mbps Real-Time Key Generation. IEEE Journal of Quantum Electronics, 2012, 48, 542-550.	1.0	119
70	Apodization along thickness direction of holographic transmission grating in Sb-doped Sn<inf>2</inf>P<inf>2</inf>S<inf>6</inf>. , 2011, , .		0
71	Hybrid entanglement photon pair source for fiber-space flexible QKD network. , 2011, , .		0
72	Security in Photonic Networks: Threats and Security Enhancement. Journal of Lightwave Technology, 2011, 29, 3210-3222.	2.7	114

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73	Field test of quantum key distribution in the Tokyo QKD Network. Optics Express, 2011, 19, 10387.	1.7	816
74	Holographic diversity interferometry for optical storage. Optics Express, 2011, 19, 13436.	1.7	53
75	Afterpulse-like phenomenon of superconducting single photon detector in high speed quantum key distribution system. Optics Express, 2011, 19, 19562.	1.7	22
76	Efficient and low-noise single-photon avalanche photodiode for 1244-GHz clocked quantum key distribution. Optics Express, 2011, 19, 20531.	1.7	50
77	Autonomous and dynamic reconfigurable waveguide for optical interconnection with large shift-tolerance. Proceedings of SPIE, 2011, , .	0.8	0
78	Ultra-wide tuning range of reconfigurable optical add-drop multiplexer using photorefractive polymer. Proceedings of SPIE, 2011, , .	0.8	1
79	Symbol Error Characteristics of Hybrid-Modulated Holographic Data Storage by Intensity and Multi Phase Modulation. Japanese Journal of Applied Physics, 2011, 50, 09ME05.	0.8	11
80	Multilayer Collinear Holographic Memory with Movable Random Phase Mask. Japanese Journal of Applied Physics, 2011, 50, 09ME10.	0.8	7
81	All-optical demultiplexer based on dynamic multiple holograms for optical MIMO processing and mode division multiplexing. , 2011, , .		1
82	Experimental Demonstration Of Single-Photon Detection Using InGaAs Avalanche Photodiode Operated In Sub-Geiger Mode. , 2011, , .		1
83	Optical inter-satellite communication with dynamically reconfigurable optical device using Sn 2 P 2 S 6 crystal. , 2011, , .		1
84	A novel conceptual model of secure photonic networks. , 2011, , .		0
85	High-photon-detection-efficiency silicon avalanche photodiode with charge-sensitive amplifier. , 2011, , .		0
86	Holographic Diversity Detection of Spatial Quadrature Amplitude Modulation Signal for Dual-Stage Holographic Memory. , 2011, , .		0
87	Evaluation of the Performance in Multilayer Collinear Holographic Memory with Movable Random Phase Mask. , 2011, , .		0
88	Implementation of a High-Speed Quantum Key Distribution System for Metropolitan Networks. , 2010, , .		0
89	High speed quantum key distribution system. Optical Fiber Technology, 2010, 16, 55-62.	1.4	13
90	Transmission Experiment of Quantum Keys over 50 km Using High-Performance Quantum-Dot Single-Photon Source at 1.5 Âμm Wavelength. Applied Physics Express, 2010, 3, 092802.	1.1	58

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91	Performance of hybrid entanglement photon pair source for quantum key distribution. Applied Physics Letters, 2009, 95, .	1.5	58
92	Proposal of an eavesdropping experiment for BB84 QKD protocol with 1â†'3 phase-covariant quantum doner. , 2009, , .		1
93	Ensuring Quality of Shared Keys Through Quantum Key Distribution for Practical Application. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 1622-1629.	1.9	7
94	Technologies for Quantum Key Distribution Networks Integrated With Optical Communication Networks. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 1591-1601.	1.9	32
95	Photon-arrival detector with a controlled phase flip operation between a photon and a V-type atomic system. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 836.	0.9	1
96	Test and measurement on quantum key distribution systems. , 2009, , .		0
97	Experimental demonstration of quantum leader election in linear optics. Physical Review A, 2008, 77, .	1.0	4
98	Ultra fast quantum key distribution over a 97 km installed telecom fiber with wavelength division multiplexing clock synchronization. Optics Express, 2008, 16, 11354.	1.7	92
99	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
100	Gated Geiger mode operation and after pulse probability measurement of the InAlAs APD. , 2008, , .		0
101	Statistical analysis of testing of an entangled state based on the Poisson distribution framework. New Journal of Physics, 2008, 10, 043029.	1.2	4
102	97-km QKD field trial using PLC-based one-way interferometers, SSPDs and WDM synchronization. , 2008, , .		2
103	Scalable QKD network using simple key-management technique with on-demand crypto-key supply. , 2008, , .		3
104	Quantum key distribution systems and field trials. , 2008, , .		0
105	Fast Quantum Cryptography System Using Single Photon Communication. The Review of Laser Engineering, 2008, 36, 487-492.	0.0	0
106	Coherent control of exciton in a single InAs/GaAs quantum dot. , 2007, , .		0
107	The generation of polarization-entangled photon pairs using periodically poled lithium niobate waveguides in a fibre loop. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 437-443.	0.6	23
108	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

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109	Quantum-nondemolition measurement of photon arrival using an atom-cavity system. Physical Review A, 2007, 75, .	1.0	5
110	Quantum key distribution system for metropolitan-area networks. Proceedings of SPIE, 2007, , .	0.8	0
111	Experimental Decoy State Method for Secure Quantum Key Distribution. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
112	Efficient generation of a photon pair in a bulk periodically poled potassium titanyl phosphate. Optics Communications, 2007, 278, 363-367.	1.0	4
113	Quantum information with Gaussian states. Physics Reports, 2007, 448, 1-111.	10.3	321
114	Practical Quantum Cryptosystem for Metro Area Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 1031-1038.	1.9	31
115	Introduction to the Issue on Single Photon Counting: Detectors and Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 849-851.	1.9	7
116	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
117	Recent Progress in Quantum Key Distribution Network Technologies. , 2006, , .		2
118	Influence of pure dephasing by phonons on exciton-photon interfaces: Quantum microscopic theory. Physical Review B, 2006, 73, .	1.1	6
119	Highly efficient polarization-entangled photon source using periodically poled lithium niobate waveguides. Optics Communications, 2006, 267, 278-281.	1.0	16
120	Development of Scanning Near-Field Optical Microscope Working under Cryogenic Temperature and Strong Magnetic Field. Optical Review, 2006, 13, 279-282.	1.2	2
121	Time uncertainty of a photon pair creation in a bulk periodically poled potassium titanyl phosphate pumped by a femtosecond laser. New Journal of Physics, 2006, 8, 38-38.	1.2	5
122	High Quality Factor Photonic Crystal Micro-Cavity Design to Utilize Semiconductor Nonlinearities. Japanese Journal of Applied Physics, 2006, 45, 1612-1616.	0.8	3
123	One-Way Quantum Key Distribution System Based on Planar Lightwave Circuits. Japanese Journal of Applied Physics, 2006, 45, 5344-5348.	0.8	10
124	Four photons interfering but showing the two-photon interference behaviour. Journal of Modern Optics, 2006, 53, 1003-1009.	0.6	3
125	Generation of polarization-entangled photon pairs using periodically poled lithium niobate waveguides in a fiber loop. , 2006, , .		1
126	Hypothesis testing for an entangled state produced by spontaneous parametric down-conversion. Physical Review A, 2006, 74, .	1.0	13

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127	Photonic Realization of Quantum Information Systems. , 2006, , 243-275.		0
128	Photonic Realization of Quantum Information Systems. , 2006, , 243-275.		0
129	1024-Qubits-Quantum Fourier Transform on a Fiber-optics circuit. , 2005, , .		0
130	Recent development of technologies for quantum communication. , 2005, , .		0
131	Quantum Information Processing with Fiber Optics: Quantum Fourier Transform of 1024 Qubits. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2005, 99, 204.	0.2	1
132	Creation of a polarization W state using optical fibre multiports. Journal of Modern Optics, 2005, 52, 755-761.	0.6	16
133	Time-resolved photoluminescence measurement of exciton and biexciton in an InAs/GaAs single quantum dot. , 2005, , .		0
134	Temporal behaviour of field in high quality factor photonic crystal microcavity structure. Optics Express, 2005, 13, 460.	1.7	0
135	Experimental verification of fault tolerant quantum key distribution protocol. Optics Express, 2005, 13, 9415.	1.7	9
136	Excitonic molecule in a quantum dot: Photoluminescence lifetime of a singleInAsâˆ•GaAsquantum dot. Physical Review B, 2005, 72, .	1.1	18
137	Quantum entanglement swapping with spontaneous parametric down-conversion. Physical Review A, 2004, 69, .	1.0	8
138	Observation of Antinormally Ordered Hanbury Brownâ€“Twiss Correlations. Physical Review Letters, 2004, 92, 113601.	2.9	6
139	Generation of a pulsed polarization entangled photon pair using a Sagnac interferometer. Physical Review A, 2004, 69, .	1.0	88
140	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
141	ANTINORMALLY ORDERED PHOTODETECTION OF CONTINUOUS-MODE FIELD. International Journal of Quantum Information, 2004, 02, 101-117.	0.6	3
142	MEASURED QUANTUM FOURIER TRANSFORM OF 1024 QUBITS ON FIBER OPTICS. International Journal of Quantum Information, 2004, 02, 119-131.	0.6	5
143	Preparation of a pulsed polarization entangled photon pair via interference. Optics Communications, 2004, 235, 247-252.	1.0	11
144	Highly efficient generation of pulsed photon pairs with bulk periodically poled potassium titanyl phosphate. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 2081.	0.9	22

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145	Generation of a pulsed polarization entangled-photon pair via a two-crystal geometry. Physical Review A, 2003, 67, .	1.0	7
146	Single-photon interference experiment over 100â€…km for quantum cryptography system using balanced gated-mode photon detector. Electronics Letters, 2003, 39, 1199.	0.5	86
147	Quantum entanglement swapping with spontaneous parametric down conversion. , 2003, , .		0
148	Experimental investigation of pulsed entangled photons and photonic quantum channels. , 2002, 4917, 13.		10
149	Remote state preparation of an entangled state. Journal of Optics B: Quantum and Semiclassical Optics, 2002, 4, 380-382.	1.4	80
150	Balanced, gated-mode photon detector for quantum-bit discrimination at 1550 nm. Optics Letters, 2002, 27, 1827.	1.7	122
151	Teleportation of an unknown state by W state. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 296, 161-164.	0.9	199
152	Reply to â€œComment on: Teleportation of an unknown state by WÂstateâ€• Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 300, 538-539.	0.9	14
153	Complete Bell state measurement with a solid state device. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 282, 331-335.	0.9	5
154	Triple-Exposure Method for Fabricating Triangular-Lattice Photonic Crystals. Japanese Journal of Applied Physics, 2000, 39, 4236-4240.	0.8	4
155	Security of classical noise-based cryptography. Journal of Optics B: Quantum and Semiclassical Optics, 2000, 2, 705-710.	1.4	3
156	Lightwave propagation through a 120Â° sharply bent single-line-defect photonic crystal waveguide. Applied Physics Letters, 2000, 76, 952-954.	1.5	270
157	Splitting of triply degenerate refractive indices by photonic crystals. Physical Review B, 2000, 62, 1477-1480.	1.1	21
158	Quantum key distribution using two coherent states of light and their superposition. Physical Review A, 2000, 62, .	1.0	3
159	Photonic-crystal spot-size converter. Applied Physics Letters, 2000, 76, 268-270.	1.5	55
160	Effects of Spectral Broadening and Cross Relaxation on the Gain Saturation Characteristics of Quantum Dot Laser Amplifiers. Japanese Journal of Applied Physics, 1999, 38, 5087-5095.	0.8	21
161	Photonic crystals for micro lightwave circuits using wavelength-dependent angular beam steering. Applied Physics Letters, 1999, 74, 1370-1372.	1.5	259
162	Self-collimating phenomena in photonic crystals. Applied Physics Letters, 1999, 74, 1212-1214.	1.5	697

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163	Superprism phenomena in photonic crystals: toward microscale lightwave circuits. Journal of Lightwave Technology, 1999, 17, 2032-2038.	2.7	195
164	Space charge and many-body effects on the optical gain in semiconductor quantum wells for advanced laser design. , 1999, , .		0
165	Superprism phenomena in photonic crystals. , 1999, , .		5
166	Superprism phenomena in photonic crystals. Physical Review B, 1998, 58, R10096-R10099.	1.1	811
167	Conduction-Band Discontinuity of InAsP/InP Heterojunction. Japanese Journal of Applied Physics, 1998, 37, 3915-3918.	0.8	7
168	Evidence of nonuniform carrier distribution in multiple quantum well lasers. Applied Physics Letters, 1997, 71, 767-769.	1.5	37
169	Quantum-classical crossover in carrier transport. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 233, 115-120.	0.9	0
170	Efficient exciton energy transfer between widely separated quantum wells at low temperatures. Physical Review B, 1996, 53, 10793-10803.	1.1	40
171	Many-body effects, space-charge potential, and valence-band mixing on the optical gain in quantum-well structures. Physical Review B, 1996, 54, 5609-5619.	1.1	10
172	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
173	Femtosecond dynamics of non-thermal holes in n-modulation-doped quantum wells. Semiconductor Science and Technology, 1994, 9, 449-452.	1.0	0
174	Spectral hole burning and carrier-heating effect on the transient optical nonlinearity of highly carrier-injected semiconductors. IEEE Journal of Quantum Electronics, 1994, 30, 1981-1994.	1.0	10
175	Free carrier effect on the refractive index change in quantum-well structures. IEEE Journal of Quantum Electronics, 1994, 30, 2798-2802.	1.0	5
176	Influence of free carrier plasma effect on carrier-induced refractive index change for quantum-well lasers. IEEE Photonics Technology Letters, 1993, 5, 16-19.	1.3	26
177	Femtosecond hole relaxation inn-type modulation-doped quantum wells. Physical Review B, 1993, 48, 5708-5711.	1.1	32
178	Strain effect on K factor, differential gain and nonlinear gain coefficient for InGaAs/InGaAsP strained multiquantum well lasers. Electronics Letters, 1993, 29, 579.	0.5	1
179	High-frequency modulation in characteristics in 1.5 Î¼m compressively strained multiquantum well lasers with large number of wells. Electronics Letters, 1992, 28, 1456.	0.5	14
180	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

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181	Optical-confinement-factor dependencies of the K factor, differential gain, and nonlinear gain coefficient for 1.55 mu m InGaAs/InGaAsP MQW and strained-MQW lasers. IEEE Photonics Technology Letters, 1991, 3, 773-776.	1.3	44
182	THz optical-frequency conversion of 1 Gb/s-signals using highly nondegenerate four-wave mixing in an InGaAsP semiconductor laser. IEEE Photonics Technology Letters, 1991, 3, 1021-1023.	1.3	83
183	Optical confinement factor dependence of K-factor, differential gain, and nonlinear gain in 1.55- mu m MQW and strained MQW lasers. IEEE Transactions on Electron Devices, 1991, 38, 2698.	1.6	0
184	Observation of highly nondegenerate fourâ€wave mixing (â‰³1 THz) in an InGaAsP multiple quantum well laser. Applied Physics Letters, 1991, 58, 1458-1460.	1.5	49
185	5:1onâ€offcontrast InGaAs/InP multiple quantum well Fabryâ€“Perot Ã©talon modulator. Applied Physics Letters, 1989, 55, 1817-1819.	1.5	12
186	Dispersive-Type Optical Bistability in a Self-Electrooptic-Effect Etalon. Japanese Journal of Applied Physics, 1989, 28, 1523-1524.	0.8	0
187	Carrier-induced lasing wavelength shift for quantum well laser diodes. IEEE Journal of Quantum Electronics, 1987, 23, 1155-1159.	1.0	45
188	Optical feedback effect on bistable laser diodes. Optical and Quantum Electronics, 1987, 19, S75-S82.	1.5	3
189	Turnâ€off characteristics of bistable laser diode. Journal of Applied Physics, 1986, 59, 1839-1842.	1.1	21