Hon Ki Tsang

List of Publications by Year
in descending order

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373 papers	8,951 citations	47 h-index	84 g-index
		47006	54911
373 all docs	373 docs citations	373 times ranked	6877 citing authors

#	Article	IF	Citations
1	High-responsivity graphene/silicon-heterostructure waveguide photodetectors. Nature Photonics, 2013, 7, 888-891.	31.4	731
2	Optical dispersion, two-photon absorption and self-phase modulation in silicon waveguides at 1.5â€‚Î¼m wavelength. Applied Physics Letters, 2002, 80, 416-418.	3.3	353
3	Apodized Waveguide Grating Couplers for Efficient Coupling to Optical Fibers. IEEE Photonics Technology Letters, 2010, 22, 1156-1158.	2.5	287
4	Continuous Cuffless Blood Pressure Estimation Using Pulse Transit Time and Photoplethysmogram Intensity Ratio. IEEE Transactions on Biomedical Engineering, 2016, 63, 964-972.	4.2	246
5	Role of free carriers from two-photon absorption in Raman amplification in silicon-on-insulator waveguides. Applied Physics Letters, 2004, 84, 2745-2747.	3.3	228
6	10â€€hannel Mode (de)multiplexer with Dual Polarizations. Laser and Photonics Reviews, 2018, 12, 1700109.	8.7	210
7	Synergistic Effects of Plasmonics and Electron Trapping in Graphene Short-Wave Infrared Photodetectors with Ultrahigh Responsivity. ACS Nano, 2017, 11, 430-437.	14.6	192
8	Mid-infrared Suspended Membrane Waveguide and Ring Resonator on Silicon-on-Insulator. IEEE Photonics Journal, 2012, 4, 1510-1519.	2.0	151
9	Pulse Transit Time Based Continuous Cuffless Blood Pressure Estimation: A New Extension and A Comprehensive Evaluation. Scientific Reports, 2017, 7, 11554.	3.3	149
10	Polarization-independent grating couplers for silicon-on-insulator nanophotonic waveguides. Optics Letters, 2011, 36, 796.	3.3	145
11	Silicon waveguide two-photon absorption detector at 1.5 Î¼m wavelength for autocorrelation measurements. Applied Physics Letters, 2002, 81, 1323-1325.	3.3	141
12	High Responsivity, Broadband, and Fast Graphene/Silicon Photodetector in Photoconductor Mode. Advanced Optical Materials, 2015, 3, 1207-1214.	7.3	141
13	Integrated polarization beam splitter in high index contrast silicon-on-insulator waveguides. IEEE Photonics Technology Letters, 2005, 17, 393-395.	2.5	132
14	Photonic integrated circuits with bound states in the continuum. Optica, 2019, 6, 1342.	9.3	130
15	Fibre dispersion or pulse spectrum measurement using a sampling oscilloscope. Electronics Letters, 1997, 33, 983.	1.0	129
16	Nonlinear optical properties of silicon waveguides. Semiconductor Science and Technology, 2008, 23, 064007.	2.0	129
17	High-channel-count 20â€‰â€‰GHz passively mode-locked quantum dot laser directly grown on Si with 41â€‰â€‰Tbit/s transmission capacity. Optica, 2019, 6, 128.	9.3	129
18	Efficient Raman amplification in silicon-on-insulator waveguides. Applied Physics Letters, 2004, 85, 3343-3345.	3.3	124

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19	Fabrication-Tolerant Waveguide Chirped Grating Coupler for Coupling to a Perfectly Vertical Optical Fiber. IEEE Photonics Technology Letters, 2008, 20, 1914-1916.	2.5	122
20	Ultrafast all-optical switching by cross-absorption modulation in silicon wire waveguides. Optics Express, 2005, 13, 7298.	3.4	120
21	High-responsivity graphene-on-silicon slot waveguide photodetectors. Nanoscale, 2016, 8, 13206-13211.	5.6	98
22	High speed logic gate using two-photon absorption in silicon waveguides. Optics Communications, 2006, 265, 171-174.	2.1	96
23	Wideband subwavelength gratings for coupling between silicon-on-insulator waveguides and optical fibers. Optics Letters, 2012, 37, 3483.	3.3	89
24	Ultraâ€Sharp Multimode Waveguide Bends with Subwavelength Gratings. Laser and Photonics Reviews, 2019, 13, 1800119.	8.7	87
25	Mode-Division Multiplexing for Silicon Photonic Network-on-Chip. Journal of Lightwave Technology, 2017, 35, 3223-3228.	4.6	86
26	Device engineering for silicon photonics. NPG Asia Materials, 2011, 3, 34-40.	7.9	85
27	Focusing subwavelength grating coupler for mid-infrared suspended membrane waveguide. Optics Letters, 2012, 37, 1217.	3.3	83
28	Nanoholes Grating Couplers for Coupling Between Silicon-on-Insulator Waveguides and Optical Fibers. IEEE Photonics Journal, 2009, 1, 184-190.	2.0	81
29	Nonlinear Absorption and Raman Scattering in Silicon-on-Insulator Optical Waveguides. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 1149-1153.	2.9	78
30	Focusing subwavelength grating coupler for mid-infrared suspended membrane germanium waveguides. Optics Letters, 2017, 42, 2094.	3.3	76
31	In-Plane Optical Absorption and Free Carrier Absorption in Graphene-on-Silicon Waveguides. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 43-48.	2.9	75
32	Experimental demonstration of polarization-insensitive air-cladding grating couplers for silicon-on-insulator waveguides. Optics Letters, 2014, 39, 2206.	3.3	73
33	High-dimensional communication on etchless lithium niobate platform with photonic bound states in the continuum. Nature Communications, 2020, 11, 2602.	12.8	73
34	Nonlinear absorption and Raman gain in helium-ion-implanted silicon waveguides. Optics Letters, 2006, 31, 1714.	3.3	71
35	On-chip reconfigurable optical add-drop multiplexer for hybrid wavelength/mode-division-multiplexing systems. Optics Letters, 2017, 42, 2802.	3.3	66
36	Demonstration of bi-directional LED visible light communication using TDD traffic with mitigation of reflection interference. Optics Express, 2012, 20, 23019.	3.4	65

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37	Apodized focusing subwavelength grating couplers for suspended membrane waveguides. Applied Physics Letters, 2012, 101, .	3.3	65
38	Investigation of 4-ASK modulation with digital filtering to increase 20 times of direct modulation speed of white-light LED visible light communication system. Optics Express, 2012, 20, 16218.	3.4	62
39	Enhanced optical Kerr nonlinearity of MoS_2 on silicon waveguides. Photonics Research, 2015, 3, 206.	7.0	58
40	In-line channel power monitor based on helium ion implantation in silicon-on-insulator waveguides. IEEE Photonics Technology Letters, 2006, 18, 1882-1884.	2.5	55
41	Monolithically integrated reconfigurable add-drop multiplexer for mode-division-multiplexing systems. Optics Letters, 2016, 41, 5298.	3.3	55
42	Efficient perfectly vertical grating coupler for multi-core fibers fabricated with 193â€‰â€‰nm DUV lithography. Optics Letters, 2018, 43, 5709.	3.3	55
43	Mid-Infrared Grating Couplers for Silicon-on-Sapphire Waveguides. IEEE Photonics Journal, 2012, 4, 104-113.	2.0	54
44	Broadband focusing grating couplers for suspended-membrane waveguides. Optics Letters, 2012, 37, 5181.	3.3	52
45	All-optical NRZ to RZ format and wavelength converter by dual-wavelength injection locking. Optics Communications, 2002, 209, 329-334.	2.1	49
46	Time dependent density of free carriers generated by two photon absorption in silicon waveguides. Applied Physics Letters, 2007, 90, 211105.	3.3	49
47	Impact of heart disease and calibration interval on accuracy of pulse transit timeâ€“based blood pressure estimation. Physiological Measurement, 2016, 37, 227-237.	2.1	49
48	Polarization-independent DPSK demodulation using a birefringent fiber loop. IEEE Photonics Technology Letters, 2005, 17, 1313-1315.	2.5	48
49	Efficient Mode Multiplexer for Few-Mode Fibers Using Integrated Silicon-on-Insulator Waveguide Grating Coupler. IEEE Journal of Quantum Electronics, 2020, 56, 1-7.	1.9	48
50	Compatibility of Silicon Mach-Zehnder Modulators for Advanced Modulation Formats. Journal of Lightwave Technology, 2013, 31, 2550-2554.	4.6	46
51	Graphene photodetector integrated on silicon nitride waveguide. Journal of Applied Physics, 2015, 117, .	2.5	46
52	Twoâ€photon absorption and selfâ€phase modulation in InGaAsP/InP multiâ€quantumâ€well waveguides. Journal of Applied Physics, 1991, 70, 3992-3994.	2.5	43
53	Hybrid 2Dâ€Material Photonics with Bound States in the Continuum. Advanced Optical Materials, 2019, 7, 1901306.	7.3	43
54	Fully suspended slot waveguides for high refractive index sensitivity. Optics Letters, 2017, 42, 1245.	3.3	42

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55	2.6 Tbit/s On-Chip Optical Interconnect Supporting Mode-Division-Multiplexing and PAM-4 Signal. IEEE Photonics Technology Letters, 2018, 30, 1052-1055.	2.5	42
56	An Experimental Demonstration of 160-Gbit/s PAM-4 Using a Silicon Micro-Ring Modulator. IEEE Photonics Technology Letters, 2020, 32, 125-128.	2.5	41
57	Two dimensional silicon waveguide chirped grating couplers for vertical optical fibers. Optics Communications, 2010, 283, 2146-2149.	2.1	40
58	1.3ÂÂµm Quantum Dotâ€Ðistributed Feedback Lasers Directly Grown on (001) Si. Laser and Photonics Reviews, 2020, 14, 2000037.	8.7	40
59	Bilevel mode converter between a silicon nanowire waveguide and a larger waveguide. Journal of Lightwave Technology, 2006, 24, 2428-2433.	4.6	39
60	Mid-infrared high-Q germanium microring resonator. Optics Letters, 2018, 43, 2885.	3.3	39
61	Optical Absorption in Graphene-on-Silicon Nitride Microring Resonators. IEEE Photonics Technology Letters, 2015, 27, 1765-1767.	2.5	37
62	Graphene-on-silicon nitride waveguide photodetector with interdigital contacts. Applied Physics Letters, 2018, 112, 211107.	3.3	37
63	Integrated Plasmonic Infrared Photodetector Based on Colloidal HgTe Quantum Dots. Advanced Materials Technologies, 2019, 4, 1900354.	5.8	36
64	Widely tunable wavelength converter using a double-ring fiber laser with a semiconductor optical amplifier. IEEE Photonics Technology Letters, 2002, 14, 1445-1447.	2.5	35
65	High Coupling Efficiency Silicon Waveguide to Metalâ€“Insulatorâ€“Metal Waveguide Mode Converter. Journal of Lightwave Technology, 2016, 34, 2467-2472.	4.6	35
66	Hyperuniform Disordered Network Polarizers. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 288-294.	2.9	34
67	Cavity-enhanced thermo-optic bistability and hysteresis in a graphene-on-Si_3N_4 ring resonator. Optics Letters, 2017, 42, 1950.	3.3	34
68	Fully suspended slot waveguide platform. Journal of Applied Physics, 2018, 123, .	2.5	33
69	Tailorable dual-wavelength-band coupling in a transverse-electric-mode focusing subwavelength grating coupler. Optics Letters, 2018, 43, 2985.	3.3	33
70	High-performance chemical vapor deposited graphene-on-silicon nitride waveguide photodetectors. Optics Letters, 2018, 43, 1399.	3.3	33
71	Indium Phosphide Membrane Nanophotonic Integrated Circuits on Silicon. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900606.	1.8	33
72	High-speed infrared two-dimensional platinum diselenide photodetectors. Applied Physics Letters, 2020, 116, .	3.3	33

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73	High-performance III-V photodetectors on a monolithic InP/SOI platform. Optica, 2021, 8, 1204.	9.3	33
74	Bound-States-in-Continuum Hybrid Integration of 2D Platinum Diselenide on Silicon Nitride for High-Speed Photodetectors. ACS Photonics, 2020, 7, 2643-2649.	6.6	32
75	Long-reach radio-over-fiber signal distribution using single-sideband signal generated by a silicon-modulator. Optics Express, 2011, 19, 11312.	3.4	31
76	Bi-wavelength two dimensional chirped grating couplers for low cost WDM PON transceivers. Optics Communications, 2011, 284, 2242-2244.	2.1	31
77	Integrated Silicon Photonics Remote Radio Frontend (RRF) for Single-Sideband (SSB) Millimeter-Wave Radio-Over-Fiber (ROF) Systems. IEEE Photonics Journal, 2019, 11, 1-8.	2.0	31
78	All-Optical Modulation Format Conversion and Multicasting Using Injection-Locked Laser Diodes. Journal of Lightwave Technology, 2004, 22, 2386-2392.	4.6	30
79	High sensitivity autocorrelation using two-photon absorption in InGaAsP waveguides. Electronics Letters, 1995, 31, 1773-1775.	1.0	29
80	Optical mm-Wave Signal Generation by Frequency Quadrupling Using an Optical Modulator and a Silicon Microresonator Filter. IEEE Photonics Technology Letters, 2009, 21, 209-211.	2.5	28
81	Entangled photon pair generation from an InP membrane micro-ring resonator. Applied Physics Letters, 2019, 114, .	3.3	28
82	Dual-wavelength-band subwavelength grating coupler operating in the near infrared and extended shortwave infrared. Optics Letters, 2019, 44, 3621.	3.3	28
83	Widely tunable polarization-independent all-optical wavelength converter using a semiconductor optical amplifier. IEEE Photonics Technology Letters, 2000, 12, 525-527.	2.5	27
84	All-Optical ASK/DPSK Label-Swapping and Buffering Using Fabryâ€“Perot Laser Diodes. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 363-370.	2.9	27
85	Mid-infrared germanium photonic crystal cavity. Optics Letters, 2017, 42, 2882.	3.3	27
86	Characterization of Mid-Infrared Silicon-on-Sapphire Microring Resonators With Thermal Tuning. IEEE Photonics Journal, 2012, 4, 1095-1102.	2.0	26
87	250-GHz Passive Harmonic Mode-Locked Er-Doped Fiber Laser by Dissipative Four-Wave Mixing With Silicon-Based Micro-Ring. IEEE Photonics Journal, 2013, 5, 1502107-1502107.	2.0	26
88	Stable and wavelength-tunable silicon-micro-ring-resonator based erbium-doped fiber laser. Optics Express, 2013, 21, 2869.	3.4	26
89	High-speed van der Waals heterostructure tunneling photodiodes integrated on silicon nitride waveguides. Optica, 2019, 6, 514.	9.3	26
90	Rayleigh Backscattering Mitigation Using Wavelength Splitting for Heterogeneous Optical Wired and Wireless Access. IEEE Photonics Technology Letters, 2010, 22, 1294-1296.	2.5	24

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91	3 Ã— 104 Gb/s Single-Î» Interconnect of Mode-Division Multiplexed Network With a Multicore Fiber. Journal of Lightwave Technology, 2018, 36, 318-324.	4.6	24
92	Machine Learning Adaptive Receiver for PAM-4 Modulated Optical Interconnection Based on Silicon Microring Modulator. Journal of Lightwave Technology, 2018, 36, 4106-4113.	4.6	24
93	Directly Modulated Singleâ€Mode Tunable Quantum Dot Lasers at 1.3ÂÂµm. Laser and Photonics Reviews, 2020, 14, 1900348.	8.7	24
94	Allâ€optical modulation with ultrafast recovery at low pump energies in passive InGaAs/InGaAsP multiquantum well waveguides. Applied Physics Letters, 1993, 62, 1451-1453.	3.3	23
95	Optical packet labeling based on simultaneous polarization shift keying and amplitude shift keying. Optics Letters, 2004, 29, 1861.	3.3	23
96	128-Gb/s Line Rate OFDM Signal Modulation Using an Integrated Silicon Microring Modulator. IEEE Photonics Technology Letters, 2016, 28, 2058-2061.	2.5	23
97	Polarisation-insensitive widely tunable wavelength converter using a single semiconductor optical amplifier. Electronics Letters, 2000, 36, 152.	1.0	22
98	Compact High Resolution Speckle Spectrometer by Using Linear Coherent Integrated Network on Silicon Nitride Platform at 776 nm. Laser and Photonics Reviews, 2021, 15, 2100039.	8.7	22
99	Large-Scale and Broadband Silicon Nitride Optical Phased Arrays. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-10.	2.9	22
100	Design of Mid-infrared electro-optic modulators based on aluminum nitride waveguides. Journal of Lightwave Technology, 2016, , 1-1.	4.6	21
101	Enhanced four-wave mixing with MoS₂ on a silicon waveguide. Journal of Optics (United) Tj ETQq1 1 0.784314 rgBT /Ov	2.2	21
102	Raman Lasing in Multimode Silicon Racetrack Resonators. Laser and Photonics Reviews, 2021, 15, 2000336.	8.7	21
103	C-band 67â€…GHz silicon photonic microring modulator for dispersion-uncompensated 100 Gbaud PAM-4. Optics Letters, 2022, 47, 2935.	3.3	21
104	Efficient InGaAsP/InP multiple quantum well waveguide optical phase modulator. Applied Physics Letters, 1990, 57, 2285-2287.	3.3	20
105	Experimental characterization of dual-wavelength injection-locking of a Fabryâ€“Perot laser diode. Optics Communications, 1998, 156, 321-326.	2.1	20
106	A silicon nitride waveguide-integrated chemical vapor deposited graphene photodetector with 38 GHz bandwidth. Nanoscale, 2018, 10, 21851-21856.	5.6	20
107	High-Q germanium optical nanocavity. Photonics Research, 2018, 6, 925.	7.0	20
108	Tandem Configuration of Microrings and Arrayed Waveguide Gratings for a High-Resolution and Broadband Stationary Optical Spectrometer at 860 nm. ACS Photonics, 2021, 8, 1251-1257.	6.6	20

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109	Compact high-extinction tunable CROW filters for integrated quantum photonic circuits. Optics Letters, 2020, 45, 1289.	3.3	20
110	Mitigation of Signal Distortions Using Reference Signal Distribution With Colorless Remote Antenna Units for Radio-Over-Fiber Applications. Journal of Lightwave Technology, 2009, 27, 4773-4780.	4.6	19
111	Optical Differential-Phase-Shift-Keying Demodulation Using a Silicon Microring Resonator. IEEE Photonics Technology Letters, 2009, 21, 295-297.	2.5	19
112	40-Gb/s Upstream Transmitters Using Directly Modulated 1.55-mum VCSEL Array for High-Split-Ratio PONs. IEEE Photonics Technology Letters, 2010, 22, 347-349.	2.5	18
113	Bufferless IIIâ€“V photodetectors directly grown on (001) silicon-on-insulators. Optics Letters, 2020, 45, 1754.	3.3	18
114	Tunable integrated variable bit-rate DPSK silicon receiver. Optics Letters, 2012, 37, 4738.	3.3	17
115	A 110 GHz passive mode-locked fiber laser based on a nonlinear silicon-micro-ring-resonator. Laser Physics Letters, 2014, 11, 065101.	1.4	17
116	Subwavelength Engineering in Silicon Photonic Devices. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-13.	2.9	17
117	Inverse design of multi-band and wideband waveguide crossings. Optics Letters, 2021, 46, 884.	3.3	17
118	Etched cavity InGaAsP-InP waveguide Fabry-Perot filter tunable by current injection. Journal of Lightwave Technology, 1999, 17, 1890-1895.	4.6	16
119	Bit-Rate-Variable DPSK Demodulation Using Silicon Microring Resonators With Electro-Optic Wavelength Tuning. IEEE Photonics Technology Letters, 2012, 24, 1221-1223.	2.5	16
120	Ultracompact 40-Channel Arrayed Waveguide Grating on Silicon Nitride Platform at 860 nm. IEEE Journal of Quantum Electronics, 2020, 56, 1-8.	1.9	16
121	Integrated Multimode Waveguide With Photonic Lantern for Speckle Spectroscopy. IEEE Journal of Quantum Electronics, 2021, 57, 1-8.	1.9	16
122	TWDM-PON With Signal Remodulation and Rayleigh Noise Circumvention for NG-PON2. IEEE Photonics Journal, 2013, 5, 7902306-7902306.	2.0	15
123	Integrated germanium-on-silicon Franzâ€“Keldysh vector modulator used with a Kramersâ€“Kronig receiver. Optics Letters, 2018, 43, 4333.	3.3	15
124	Ultraâ€Narrowband Photodetector with High Responsivity Enabled by Integrating Monolayer Jâ€Aggregate Organic Crystal with Graphene. Advanced Optical Materials, 2021, 9, 2100158.	7.3	15
125	Wavelength-tunable 40 GHz pulse-train generation using 10 GHz gain-switched Fabry-Perot laser and semiconductor optical amplifier. Electronics Letters, 2000, 36, 1580.	1.0	15
126	Broadband high-Q multimode silicon concentric racetrack resonators for widely tunable Raman lasers. Nature Communications, 2022, 13, .	12.8	15

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127	Polarization and field dependent twoâ€photon absorption in GaAs/AlGaAs multiquantum well waveguides in the halfâ€band gap spectral region. Applied Physics Letters, 1991, 59, 3440-3442.	3.3	14
128	Optical label encoding and swapping using half-bit delayed dark RZ payload and DPSK label. Optics Express, 2005, 13, 5325.	3.4	14
129	Equalization of PAM-4 Signal Generated by Silicon Microring Modulator for 64-Gbit/s Transmission. Journal of Lightwave Technology, 2017, 35, 4943-4948.	4.6	14
130	Optimal Bezier curve transition for low-loss ultra-compact S-bends. Optics Letters, 2021, 46, 876.	3.3	14
131	A Compact 112-Gbaud PAM-4 Silicon Photonics Transceiver for Short-Reach Interconnects. Journal of Lightwave Technology, 2022, 40, 2265-2273.	4.6	14
132	Reduction of amplitude transients and BER of direct Modulation laser using birefringent fiber loop. IEEE Photonics Technology Letters, 2005, 17, 693-695.	2.5	13
133	Ultra-Broadband Hyperuniform Disordered Silicon Photonic Polarizers. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-9.	2.9	13
134	GaAs/GaAlAs multiquantum well waveguides for all-optical switching at 1.55 Î¼m. Electronics Letters, 1991, 27, 1993.	1.0	12
135	Orthogonal label switching using polarization-shift-keying payload and amplitude-shift-keying label. IEEE Photonics Technology Letters, 2005, 17, 2475-2477.	2.5	12
136	Nonlinear polarization rotation in a dispersion-flattened photonic-crystal fiber for ultrawideband (>100 nm) all-optical wavelength conversion of 10 Gbit/s nonreturn-to-zero signals. Optics Letters, 2006, 31, 1782.	3.3	12
137	Rapid thermal annealing of ion beam synthesized Î²-FeSi2 nanoparticles in Si. Applied Physics Letters, 2008, 92, 211902.	3.3	12
138	Etched Waveguide Grating Variable 1$,imes,$2 Splitter/Combiner and Waveguide Coupler. IEEE Photonics Technology Letters, 2009, 21, 268-270.	2.5	12
139	Long-Reach Multicast High Split-Ratio Wired and Wireless WDM-PON Using SOA for Remote Upconversion. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 3136-3143.	4.6	12
140	Stabilization of a multiwavelength erbium-doped fiber laser using a nonlinear silicon waveguide. Applied Physics B: Lasers and Optics, 2014, 114, 367-371.	2.2	12
141	Silicon-graphene photonic devices. Journal of Semiconductors, 2018, 39, 061009.	3.7	12
142	Mode-Division-Multiplexing (MDM) of 9.4-Tbit/s OFDM Signals on Silicon-on-Insulator (SOI) Platform. IEEE Access, 2019, 7, 129104-129111.	4.2	12
143	A High Spur-Free Dynamic Range Silicon DC Kerr Ring Modulator for RF Applications. Journal of Lightwave Technology, 2019, 37, 3261-3272.	4.6	12
144	Hyperuniform disordered photonic bandgap polarizers. Journal of Applied Physics, 2019, 126, .	2.5	12

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145	Multi-functional photonic processors using coherent network of micro-ring resonators. APL Photonics, 2021, 6, .	5.7	12
146	All-optical RZ to NRZ data format and wavelength conversion using an injection locked laser. Optics Communications, 2003, 223, 309-313.	2.1	11
147	Polarization-independent time-division demultiplexing using orthogonal-pumps four-wave mixing. IEEE Photonics Technology Letters, 2003, 15, 129-131.	2.5	11
148	Reduction of bit-pattern dependent errors from a semiconductor optical amplifier using an optical delay interferometer. Optics Communications, 2004, 232, 245-249.	2.1	11
149	Optical Nyquist filters based on silicon coupled resonator optical waveguides. Optics Communications, 2014, 329, 23-27.	2.1	11
150	Enhancement of self-phase modulation induced spectral broadening in silicon suspended membrane waveguides. Journal of Optics (United Kingdom), 2016, 18, 055503.	2.2	11
151	110 GHz hybrid mode-locked fiber laser with enhanced extinction ratio based on nonlinear silicon-on-insulator micro-ring-resonator (SOI MRR). Laser Physics Letters, 2016, 13, 035101.	1.4	11
152	Low Crosstalk Bent Multimode Waveguide for On-chip Mode-Division Multiplexing Interconnects. , 2018, , .		11
153	Telecom InP-based quantum dash photodetectors grown on Si. Applied Physics Letters, 2021, 118, .	3.3	11
154	Integrated scanning spectrometer with a tunable micro-ring resonator and an arrayed waveguide grating. Photonics Research, 2022, 10, A74.	7.0	11
155	Widely tunable all-optical wavelength converter using a fiber ring cavity incorporating a semiconductor optical amplifier. Optics Communications, 2002, 203, 101-106.	2.1	10
156	All-optical data-format and wavelength-conversion in two-wavelength injection-locked slave Fabry-Perot laser diodes. Electronics Letters, 2003, 39, 997.	1.0	10
157	WDM-PON Using Differential-Phase-Shift-Keying Remodulation of Dark Return-to-Zero Downstream Channel for Upstream. IEEE Photonics Technology Letters, 2008, 20, 833-835.	2.5	10
158	OSNR Monitoring for NRZ-PSK Signals Using Silicon Waveguide Two-Photon Absorption. IEEE Photonics Journal, 2011, 3, 968-974.	2.0	10
159	Demodulation of 20â€‰â€‰Gbaud/s differential quadrature phase-shift keying signals using wavelength-tunable silicon microring resonators. Optics Letters, 2012, 37, 3462.	3.3	10
160	Amplitude and Phase Modulation of UWB Monocycle Pulses on a Silicon Photonic Chip. IEEE Photonics Technology Letters, 2016, 28, 248-251.	2.5	10
161	112 Gb/s 16-QAM OFDM for 80-km Data Center Interconnects Using Silicon Photonic Integrated Circuits and Kramersâ€“Kronig Detection. Journal of Lightwave Technology, 2019, 37, 3532-3538.	4.6	10
162	High-extinction CROW filters for scalable quantum photonics. Optics Letters, 2021, 46, 134.	3.3	10

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163	Polarization-independent wavelength conversion at 10 Gb/s using birefringence switching in a semiconductor optical amplifier. IEEE Photonics Technology Letters, 2003, 15, 87-89.	2.5	9
164	Colorless WDM-PON Optical Network Unit (ONU) Based on Integrated Nonreciprocal Optical Phase Modulator and Optical Loop Mirror. IEEE Photonics Technology Letters, 2008, 20, 863-865.	2.5	9
165	Spectral hole burning in silicon waveguides with a graphene layer on top. Optics Letters, 2013, 38, 1930.	3.3	9
166	Increase of the grating coupler bandwidth with a graphene overlay. Applied Physics Letters, 2014, 104, .	3.3	9
167	Sub-milliwatt optical frequency combs in dual-pumped high-Q multimode silicon resonators. Applied Physics Letters, 2020, 117, .	3.3	9
168	Nonparaxial Mode-Size Converter Using an Ultracompact Metamaterial Mikaelian Lens. Journal of Lightwave Technology, 2021, 39, 2077-2083.	4.6	9
169	Forward stimulated Brillouin scattering in silicon microring resonators. Applied Physics Letters, 2017, 111, .	3.3	9
170	High Efficiency, High Gain and High Saturation Output Power Quantum Dot SOAs Grown on Si and applications. , 2020, , .		9
171	Long Short-Term Memory Neural Network for Mitigating Transmission Impairments of 160 Gbit/s PAM4 Microring Modulation. , 2021, , .		9
172	64-Gbit/s PAM-4 20-km Transmission Using Silicon Micro-ring Modulator for Optical Access Networks. , 2017, , .		9
173	High performance QCSE phase modulator for the 1.5â€“1.55 Î¼m fibre band. Electronics Letters, 1990, 26, 1421.	1.0	8
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