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	A Compact 112-Gbaud PAM-4 Silicon Photonics Transceiver for Short-Reach Interconnects. Journal of Lightwave Technology, 2022, 40, 2265-2273.	4.6	14
2	Integrated scanning spectrometer with a tunable micro-ring resonator and an arrayed waveguide grating. Photonics Research, 2022, 10, A74.	7.0	11
3	C-band 67â€…GHz silicon photonic microring modulator for dispersion-uncompensated 100 Gbaud PAM-4. Optics Letters, 2022, 47, 2935.	3.3	21
4	Broadband high-Q multimode silicon concentric racetrack resonators for widely tunable Raman lasers. Nature Communications, 2022, 13, .	12.8	15
5	Photonic integrated circuits with bound states in the continuum: erratum. Optica, 2022, 9, 683.	9.3	1
6	40 GHz waveguide-integrated two-dimensional palladium diselenide photodetectors. Applied Physics Letters, 2022, 120, .	3.3	4
7	Large-Scale and Broadband Silicon Nitride Optical Phased Arrays. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-10.	2.9	22
8	Integrated Multimode Waveguide With Photonic Lantern for Speckle Spectroscopy. IEEE Journal of Quantum Electronics, 2021, 57, 1-8.	1.9	16
9	40 G III-V photodetectors on a monolithic InP/SOI platform. , 2021, , .		1
10	Inverse design of multi-band and wideband waveguide crossings. Optics Letters, 2021, 46, 884.	3.3	17
11	Optimal Bezier curve transition for low-loss ultra-compact S-bends. Optics Letters, 2021, 46, 876.	3.3	14
12	Nonparaxial Mode-Size Converter Using an Ultracompact Metamaterial Mikaelian Lens. Journal of Lightwave Technology, 2021, 39, 2077-2083.	4.6	9
13	Telecom InP-based quantum dash photodetectors grown on Si. Applied Physics Letters, 2021, 118, .	3.3	11
14	Fabrication-Tolerant and Low-Loss Hybrid Plasmonic Slot Waveguide Mode Converter. Journal of Lightwave Technology, 2021, 39, 2106-2112.	4.6	3
15	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
16	Guest Editorial Introduction to the JSTQE Issue on Advanced Photonic Modulation: Devices, Systems & Techniques. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-3.	2.9	0
17	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
18	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

#	Article	IF	Citations
19	Near-infrared frequency comb generation from a silicon microresonator. Journal of Optics (United) Tj ETQq1 1 0.784314 rgBT /Overlo	2.2	1
20	High-performance III-V photodetectors on a monolithic InP/SOI platform. Optica, 2021, 8, 1204.	9.3	33
21	Investigation of low-power comb generation in silicon microresonators from dual pumps. Journal of Optics (United Kingdom), 2021, 23, 10LT03.	2.2	3
22	Subwavelength Silicon Photonics. Topics in Applied Physics, 2021, , 285-321.	0.8	0
23	1.3 Î¼m regrown quantum-dot distributed feedback lasers on (001) Si: a pathway to scale towards 1 Tbit/s. , 2021, , .		1
24	Raman Lasing in Multimode Silicon Racetrack Resonators. Laser and Photonics Reviews, 2021, 15, 2000336.	8.7	21
25	High-extinction CROW filters for scalable quantum photonics. Optics Letters, 2021, 46, 134.	3.3	10
26	Long Short-Term Memory Neural Network for Mitigating Transmission Impairments of 160 Gbit/s PAM4 Microring Modulation. , 2021, , .		9
27	Multi-functional photonic processors using coherent network of micro-ring resonators. APL Photonics, 2021, 6, .	5.7	12
28	Ultra-Compact Polarization Analyzer Based on Micro-Ring Resonators. IEEE Photonics Technology Letters, 2021, 33, 1371-1374.	2.5	2
29	Low-Threshold Continuous-Wave Anti-Stokes Raman Lasing in Silicon Racetrack Resonators. ACS Photonics, 2021, 8, 3462-3468.	6.6	1
30	Low crosstalk multi-mode crossing structure for multimode bound states in the continuum photonic circuits. , 2021, , .		0
31	Multimode Wavelength Division Demultiplexing Based on an Angled Multimode Interference Coupler. , 2021, , .		0
32	Multimode Waveguide Grating Couplers for Mode Division Multiplexing in Multi-mode fibers. , 2021, , .		0
33	Ultra-Broadband Hyperuniform Disordered Silicon Photonic Polarizers. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-9.	2.9	13
34	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
35	Enhanced four-wave mixing with MoS₂ on a silicon waveguide. Journal of Optics (United) Tj ETQq1 1 0.784314 rgBT /Ov	2.2	21
36	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

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37	Pulse transit time based respiratory rate estimation with singular spectrum analysis. Medical and Biological Engineering and Computing, 2020, 58, 257-266.	2.8	7
38	Indium Phosphide Membrane Nanophotonic Integrated Circuits on Silicon. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900606.	1.8	33
39	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
40	1.12-Tbit/s PAM-4 Enabled by a Silicon Photonic Transmitter Bridged With a 7-Channel MCF. IEEE Photonics Technology Letters, 2020, 32, 987-990.	2.5	8
41	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
42	Sub-milliwatt optical frequency combs in dual-pumped high-Q multimode silicon resonators. Applied Physics Letters, 2020, 117, .	3.3	9
43	High-speed infrared two-dimensional platinum diselenide photodetectors. Applied Physics Letters, 2020, 116, .	3.3	33
44	1.3ÂÂµm Quantum Dotâ€Distributed Feedback Lasers Directly Grown on (001) Si. Laser and Photonics Reviews, 2020, 14, 2000037.	8.7	40
45	Quantum Dot Lasers: Directly Modulated Singleâ€Mode Tunable Quantum Dot Lasers at 1.3ÂÂµm (Laser) Tj ETQq1 1 0.784314 rgBT	8.7	0
46	Radiation pressure and electrostriction induced enhancement for Kerr-like nonlinearities in a nanoscale silicon pedestal waveguide. Journal of Optics (United Kingdom), 2020, 22, 055502.	2.2	0
47	Quantum Dot Lasers: 1.3ÂÂµm Quantum Dotâ€Distributed Feedback Lasers Directly Grown on (001) Si (Laser) Tj ETQq1 1 0.784314	8.7	2
48	Directly Modulated Singleâ€Mode Tunable Quantum Dot Lasers at 1.3ÂÂµm. Laser and Photonics Reviews, 2020, 14, 1900348.	8.7	24
49	Enhanced thermo-optic nonlinearities in a MoS₂-on-silicon microring resonator. Applied Physics Express, 2020, 13, 022004.	2.4	8
50	High-dimensional communication on etchless lithium niobate platform with photonic bound states in the continuum. Nature Communications, 2020, 11, 2602.	12.8	73
51	Quantum states of higher-order whispering gallery modes in a silicon micro-disk resonator. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 2231.	2.1	6
52	High Efficiency, High Gain and High Saturation Output Power Quantum Dot SOAs Grown on Si and applications. , 2020, , .		9
53	Compact high-extinction tunable CROW filters for integrated quantum photonic circuits. Optics Letters, 2020, 45, 1289.	3.3	20
54	Bufferless IIIâ€“V photodetectors directly grown on (001) silicon-on-insulators. Optics Letters, 2020, 45, 1754.	3.3	18

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55	Integrated Mikaelian Lens Implemented by Subwavelength Grating. , 2020, , .		0
56	High-dimensional communication on etchless lithium niobate platform with photonic bound states in the continuum. , 2020, , .		4
57	Hybrid two-dimensional-material photonics with bound states in the continuum. , 2020, , .		0
58	Graphene-silicon nitride photodetector with bound state in the continuum. , 2020, , .		0
59	1.3 qm tunable quantum dot lasers. , 2020, , .		1
60	Integrated Photon-Pair Generation and ~112 dB Pump Rejection Filters for Silicon Quantum Photonics. , 2020, , .		0
61	Silicon photonics for spatially multiplexed high capacity optical fiber communications. , 2020, , .		0
62	280 Gb/s Dual-Polarization Transmitter using Ge-on-Si EAMs for Short-Reach Interconnects. , 2020, , .		4
63	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
64	InP membrane micro-ring resonator for generating heralded single photons. Journal of Optics (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.2	1
65	Hybrid 2Dâ€Material Photonics with Bound States in the Continuum. Advanced Optical Materials, 2019, 7, 1901306.	7.3	43
66	Ultraâ€Sharp Multimode Waveguide Bends with Subwavelength Gratings. Laser and Photonics Reviews, 2019, 13, 1800119.	8.7	87
67	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
68	Integrated Plasmonic Infrared Photodetector Based on Colloidal HgTe Quantum Dots. Advanced Materials Technologies, 2019, 4, 1900354.	5.8	36
69	Entangled photon pair generation from an InP membrane micro-ring resonator. Applied Physics Letters, 2019, 114, .	3.3	28
70	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
71	Subwavelength Engineering in Silicon Photonic Devices. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-13.	2.9	17
72	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

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73	High Resolution Silicon Nitride Spectrometer by Integrating Micro-Rings and Arrayed Waveguide Gratings in Tandem. , 2019, , .		2
74	Hyperuniform disordered photonic bandgap polarizers. Journal of Applied Physics, 2019, 126, .	2.5	12
75	General Scattering Matrix for Design of Linear Coherent Networks using Microring Resonators. , 2019, , .		0
76	High Resolution Silicon Nitride Spectrometer by Integrating Micro-Rings and Arrayed Waveguide Gratings in Tandem. , 2019, , .		0
77	Implementing Deep Neural Network for Signal Transmission Distortion Mitigation of PAM-4 Generated by Silicon Mach-Zehnder Modulator. , 2019, , .		1
78	Continuous-Wave Raman Lasing in Silicon Ring Resonator with Sub-Milliwatt Pump Threshold. , 2019, , .		1
79	Characteristics of 1.3Î¼m Electrically Pumped InAs/AlGaInAs Quantum Dot Lasers on (001) Silicon. , 2019, , .		0
80	100 GHz colliding pulse mode locked quantum dot lasers directly grown on Si for WDM application. , 2019, , .		3
81	Dual-wavelength-band subwavelength grating coupler operating in the near infrared and extended shortwave infrared. Optics Letters, 2019, 44, 3621.	3.3	28
82	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
83	High-speed van der Waals heterostructure tunneling photodiodes integrated on silicon nitride waveguides. Optica, 2019, 6, 514.	9.3	26
84	Photonic integrated circuits with bound states in the continuum. Optica, 2019, 6, 1342.	9.3	130
85	Two-dimensional van der Waals heterostructure tunneling photodiodes on silicon nitride waveguides. , 2019, , .		0
86	Hyperuniform Disordered Polarisers for the Mid-Infrared. , 2019, , .		0
87	80-km Transmission with Silicon Micro-Ring Modulators and Kramers-Kronig Direct Detection. , 2019, , .		2
88	Asymmetric graphene-on-silicon nitride waveguide photodetector towards fast speed and high responsivity. , 2019, , .		0
89	Terabit interconnects with a 20-GHz O-band passively mode locked quantum dot laser grown directly on silicon. , 2019, , .		0
90	Photon Pair Generation and Filtering Using Monolithically Integrated Silicon Micro-disk and Coupled Resonator Optical Waveguide. , 2019, , .		0

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91	Experimental demonstration of 1111-Gb/s net information rate using IM/DD probabilistically shaped orthogonal chirp-division multiplexing with a 10-GHz-class modulator. Optics Express, 2019, 27, 33789.	3.4	2
92	Compensation of Dispersion-Induced Power Fading in Analog Photonic Links by Gain-Transparent SBS. IEEE Photonics Technology Letters, 2018, 30, 688-691.	2.5	8
93	Fully suspended slot waveguide platform. Journal of Applied Physics, 2018, 123, .	2.5	33
94	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
95	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
96	10â€€channel Mode (de)multiplexer with Dual Polarizations. Laser and Photonics Reviews, 2018, 12, 1700109.	8.7	210
97	A silicon nitride waveguide-integrated chemical vapor deposited graphene photodetector with 38 GHz bandwidth. Nanoscale, 2018, 10, 21851-21856.	5.6	20
98	Influence of Nonlinear Losses on Spontaneous Four Wave Mixing in InP Membrane Micro-ring Resonator. , 2018, , .		0
99	Compact and High-Speed Ge Franz-Keldysh I/Q Modulator Used with Kramers-Kronig Receiver. , 2018, , .		1
100	Electrically Tunable Terahertz Liquid Crystal Spatial Phase Shifter. , 2018, , .		0
101	Polarization Sensitive Plasmonic Photodetector Based on HgTe Quantum Dots. , 2018, , .		0
102	Hybrid Integration of Black Phosphorus-WSe<inf>2</inf> Heterojunction Photodetector on Silicon Waveguide. , 2018, , .		0
103	Low Crosstalk Bent Multimode Waveguide for On-chip Mode-Division Multiplexing Interconnects. , 2018, , .		11
104	High-Q germanium optical nanocavity. Photonics Research, 2018, 6, 925.	7.0	20
105	Integrated germanium-on-silicon Franzâ€“Keldysh vector modulator used with a Kramersâ€“Kronig receiver. Optics Letters, 2018, 43, 4333.	3.3	15
106	Graphene-on-silicon nitride waveguide photodetector with interdigital contacts. Applied Physics Letters, 2018, 112, 211107.	3.3	37
107	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
108	Mid-infrared high-Q germanium microring resonator. Optics Letters, 2018, 43, 2885.	3.3	39

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109	Tailorable dual-wavelength-band coupling in a transverse-electric-mode focusing subwavelength grating coupler. Optics Letters, 2018, 43, 2985.	3.3	33
110	Negative Frequency-Chirped 112-Gb/s PAM-4 Using an Integrated Germanium Franz-Keldysh Modulator. IEEE Photonics Technology Letters, 2018, 30, 1443-1446.	2.5	7
111	High-performance chemical vapor deposited graphene-on-silicon nitride waveguide photodetectors. Optics Letters, 2018, 43, 1399.	3.3	33
112	Silicon-graphene photonic devices. Journal of Semiconductors, 2018, 39, 061009.	3.7	12
113	192-Gbit/s PAM-4 Optical Interconnect using Mode-Division Multiplexing. , 2018, , .		1
114	Efficient perfectly vertical grating coupler for multi-core fibers fabricated with 193â€‰â€‰nm DUV lithography. Optics Letters, 2018, 43, 5709.	3.3	55
115	30-GHz graphene-on-silicon nitride waveguide photodetector. , 2018, , .		1
116	512-Gbit/s PAM-4 Signals Direct-Detection using Silicon Photonics Receiver with Volterra Equalization. , 2018, , .		2
117	Mid-infrared germanium photonic integrated circuits for on-chip biochemical sensing. , 2018, , .		0
118	Assessment of Integrated Ge Franz-Keldysh Modulator for Discrete Multi-Tone Modulation. , 2018, , .		1
119	Monolithic Dual-polarization Silicon Modulator for 180 Gb/s DMT Signal Transmission. , 2018, , .		0
120	112-Gb/s PAM-4 using Integrated Germanium on Silicon Franz Keldysh Modulator. , 2018, , .		2
121	Integrated Plasmonic Waveguide at the Mid-Infrared. , 2018, , .		1
122	Recent progress in nano-optomechanical devices at microwave frequencies. , 2018, , .		0
123	Mode-Division Multiplexing for Silicon Photonic Network-on-Chip. Journal of Lightwave Technology, 2017, 35, 3223-3228.	4.6	86
124	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
125	Pulse Transit Time Based Continuous Cuffless Blood Pressure Estimation: A New Extension and A Comprehensive Evaluation. Scientific Reports, 2017, 7, 11554.	3.3	149
126	Integrated near-infrared photodetector based on colloidal HgTe quantum dot loaded plasmonic waveguide. , 2017, , .		4

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127	High speed DPSK modulation up to 30 Gbps for short reach optical communications using a silicon microring modulator. , 2017, , .		1
128	Fully suspended mid-infrared racetrack resonator with subwavelength grating cladding. , 2017, , .		2
129	Scalable Ultra-Wideband Pulse Generation Based on Silicon Photonic Integrated Circuits. IEEE Photonics Technology Letters, 2017, 29, 1896-1899.	2.5	3
130	Mid-infrared germanium photonic crystal cavity. Optics Letters, 2017, 42, 2882.	3.3	27
131	Flat-top Frequency Comb Generation with Silicon Microring Modulator and Filter. , 2017, , .		8
132	Single-Î» 312 Gb/s Discrete Multi-Tone Interconnect of Mode-Division Multiplexed Network with a Multicore Fiber. , 2017, , .		1
133	Fully suspended slot waveguides for high refractive index sensitivity. Optics Letters, 2017, 42, 1245.	3.3	42
134	Cavity-enhanced thermo-optic bistability and hysteresis in a graphene-on-Si_3N_4 ring resonator. Optics Letters, 2017, 42, 1950.	3.3	34
135	On-chip reconfigurable optical add-drop multiplexer for hybrid wavelength/mode-division-multiplexing systems. Optics Letters, 2017, 42, 2802.	3.3	66
136	Focusing subwavelength grating coupler for mid-infrared suspended membrane germanium waveguides. Optics Letters, 2017, 42, 2094.	3.3	76
137	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
138	Forward stimulated Brillouin scattering in silicon microring resonators. Applied Physics Letters, 2017, 111, .	3.3	9
139	Transmission Performance Improvement of PAM-4 Signal Direct-Detected by Ge-Si Photodiode using Volterra Equalization. , 2017, , .		1
140	Contribution of electrostriction and radiation pressure to Kerr-like nonlinearities in silicon pedestal waveguides. , 2017, , .		1
141	Fully suspended nanophotonic waveguide resonators with high quality factor and tailorable operational bandwidth. , 2017, , .		1
142	64-Gbit/s PAM-4 20-km Transmission Using Silicon Micro-ring Modulator for Optical Access Networks. , 2017, , .		9
143	Enhanced Thermo-Optic Bistability in Graphene-on-Silicon Nitride Ring Resonators. , 2017, , .		1
144	Monolithically integrated reconfigurable add-drop multiplexer for mode-division-multiplexing systems. Optics Letters, 2016, 41, 5298.	3.3	55

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145	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
146	Enhancement of self-phase modulation induced spectral broadening in silicon suspended membrane waveguides. Journal of Optics (United Kingdom), 2016, 18, 055503.	2.2	11
147	Design of Mid-infrared electro-optic modulators based on aluminum nitride waveguides. Journal of Lightwave Technology, 2016, , 1-1.	4.6	21
148	Nanophotonic structures for waveguide couplers and polarizers. , 2016, , .		0
149	A new modeling methodology for continuous cuffless blood pressure measurement. , 2016, , .		7
150	Multiplexing and switching for mode division multiplexed optical interconnects. , 2016, , .		0
151	A pulse transit time based fusion method for the noninvasive and continuous monitoring of respiratory rate. , 2016, 2016, 4240-4243.		4
152	Ultraviolet optomechanical crystal cavities with ultrasmall modal mass and high optomechanical coupling rate. Scientific Reports, 2016, 6, 37134.	3.3	5
153	A new design for coupling light between silicon strip waveguide and plasmonic slot waveguide. Proceedings of SPIE, 2016, , .	0.8	1
154	Narrow line-width single-longitudinal-mode fiber laser using silicon-on-insulator based micro-ring-resonator. Laser Physics Letters, 2016, 13, 025102.	1.4	6
155	High-responsivity graphene-on-silicon slot waveguide photodetectors. Nanoscale, 2016, 8, 13206-13211.	5.6	98
156	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
157	Amplitude and Phase Modulation of UWB Monocycle Pulses on a Silicon Photonic Chip. IEEE Photonics Technology Letters, 2016, 28, 248-251.	2.5	10
158	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
159	Hyperuniform Disordered Network Polarizers. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 288-294.	2.9	34
160	High Coupling Efficiency Silicon Waveguide to Metalâ€“Insulatorâ€“Metal Waveguide Mode Converter. Journal of Lightwave Technology, 2016, 34, 2467-2472.	4.6	35
161	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
162	56 Gbit/s DMT Signal Generated by an Integrated Silicon Ring Modulator. , 2016, , .		4

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163	Mode Division Multiplexed 3 Ã— 28 Gbit/s On-chip Photonic Interconnects. , 2016, , .		4
164	Photoresponse of Graphene-on-Silicon Nitride Microring Resonator. , 2016, , .		2
165	Photonic integration for Terabit scale single-wavelength on-chip Optical Interconnects. , 2016, , .		0
166	Enhanced optical Kerr nonlinearity of MoS_2 on silicon waveguides. Photonics Research, 2015, 3, 206.	7.0	58
167	High Responsivity, Broadband, and Fast Graphene/Silicon Photodetector in Photoconductor Mode. Advanced Optical Materials, 2015, 3, 1207-1214.	7.3	141
168	Graphene photodetector integrated on silicon nitride waveguide. Journal of Applied Physics, 2015, 117, .	2.5	46
169	Wavelength-tunable erbium-doped fiber laser using silicon-on-insulator (SOI) based micro-ring with narrow laser linewidth. , 2015, , .		0
170	Thermo-optic tunable silicon grating coupler. , 2015, , .		5
171	Graphene absorption enhancement using silicon slot waveguides. , 2015, , .		2
172	Graphene on Silicon-on-Sapphire Waveguide Photodetectors. , 2015, , .		2
173	Optical Absorption in Graphene-on-Silicon Nitride Microring Resonators. IEEE Photonics Technology Letters, 2015, 27, 1765-1767.	2.5	37
174	Optical Absorption and Thermal Nonlinearities in Graphene-on-Silicon Nitride Microring Resonators. , 2015, , .		4
175	Relaxation Dynamics of Optically Generated Carriers in Graphene-on-Silicon Nitride Waveguide Devices. , 2015, , .		2
176	Ultra-wideband monocycle pulses amplitude modulation based on integrated microring modulator. , 2015, , .		0
177	Enhanced self-phase modulation in silicon suspended membrane waveguides. , 2015, , .		0
178	Aluminum Nitride Electro-optic Modulator at Mid-IR Wavelengths. , 2015, , .		0
179	Silicon waveguide dispersion changes induced by graphene overlay. , 2014, , .		0
180	Scalable Optical Multicasting and Receiver for Networks- on-Chip. , 2014, , .		0

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181	Introduction for the Group-IV Photonics feature. Photonics Research, 2014, 2, GP1.	7.0	5
182	Experimental demonstration of polarization-insensitive air-cladding grating couplers for silicon-on-insulator waveguides. Optics Letters, 2014, 39, 2206.	3.3	73
183	A secure WDM ring access network employing silicon micro-ring based remote node. Optical Fiber Technology, 2014, 20, 336-340.	2.7	0
184	Optical Nyquist filters based on silicon coupled resonator optical waveguides. Optics Communications, 2014, 329, 23-27.	2.1	11
185	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
186	Increase of the grating coupler bandwidth with a graphene overlay. Applied Physics Letters, 2014, 104, .	3.3	9
187	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
188	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
189	Increasing the grating coupler bandwidth with a high numerical-aperture fiber. , 2014, , .		1
190	In-Plane Mid-Infrared Optical Absorption of Graphene on Silicon-on-Sapphire Waveguides. , 2014, , .		1
191	TWDM-PON With Signal Remodulation and Rayleigh Noise Circumvention for NG-PON2. IEEE Photonics Journal, 2013, 5, 7902306-7902306.	2.0	15
192	High-responsivity graphene/silicon-heterostructure waveguide photodetectors. Nature Photonics, 2013, 7, 888-891.	31.4	731
193	Mode-locked fiber laser using graphene on silicon waveguide. , 2013, , .		2
194	Polarization-Insensitive Phase-Preserving Regenerator Based on a Fiber Optical Parametric Amplifier With Dual Orthogonal Pumps. IEEE Photonics Technology Letters, 2013, 25, 362-364.	2.5	5
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