

# Gunther Roelkens

## List of Publications by Year in descending order

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228  
papers

8,813  
citations

38742

50  
h-index

46799

89  
g-index

229  
all docs

229  
docs citations

229  
times ranked

5801  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical Versus RF Free-Space Signal Transmission: A Comparison of Optical and RF Receivers Based on Noise Equivalent Power and Signal-to-Noise Ratio. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-8.	2.9	2
2	Demonstration of a High-Efficiency Short-Cavity III-V-on-Si C-Band DFB Laser Diode. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-6.	2.9	7
3	High-efficiency short-cavity III-V-on-Si C-band DFB laser diodes. , 2022, , .		0
4	Colloidal III-V Quantum Dot Photodiodes for Short-Wave Infrared Photodetection. Advanced Science, 2022, 9, e2200844.	11.2	31
5	Air-Filled SIW Remote Antenna Unit With True Time Delay Optical Beamforming for mmWave-Over-Fiber Systems. Journal of Lightwave Technology, 2022, 40, 6961-6975.	4.6	6
6	Lossless High-speed Silicon Photonic MZI switch with a Micro-Transfer-Printed III-V amplifier. , 2022, , .		0
7	High wall-plug efficiency and narrow linewidth III-V-on-silicon C-band DFB laser diodes. Optics Express, 2022, 30, 27983.	3.4	6
8	SiGe EAM-Based Transceivers for Datacenter Interconnects and Radio Over Fiber. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-13.	2.9	3
9	Electro-Optic Frequency Response Shaping using Embedded FIR Filters in Slow-Wave Modulators. Journal of Lightwave Technology, 2021, 39, 1777-1784.	4.6	3
10	SiPhotonics/GaAs 28-GHz Transceiver With Reflective EAM for Laser-Less mmWave-Over-Fiber. Journal of Lightwave Technology, 2021, 39, 779-786.	4.6	10
11	III-V-on-Silicon 1-GHz Mode-Locked Lasers Towards Frequency-Comb Applications. , 2021, , .		0
12	III-V-on-Silicon-Nitride Mode-Locked Laser with 2 pJ On-Chip Pulse Energy. , 2021, , .		1
13	Hybrid and heterogeneous photonic integration. APL Photonics, 2021, 6, .	5.7	59
14	Low Noise Heterogeneous III-V-on-Silicon-Nitride Mode-Locked Comb Laser. Laser and Photonics Reviews, 2021, 15, 2000485.	8.7	38
15	Gallium phosphide transfer printing for integrated nonlinear photonics. , 2021, , .		0
16	A Miniaturised, Fully Integrated NDIR CO2 Sensor On-Chip. Sensors, 2021, 21, 5347.	3.8	21
17	High-pulse-energy III-V-on-silicon-nitride mode-locked laser. APL Photonics, 2021, 6, .	5.7	29
18	Electro-optic co-design for next generation silicon optical transmitters. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
19	Porous Silica Enrichment Films on Integrated Waveguides for Broadband Mid-IR Spectroscopic Trace Analysis. , 2021, , .		0
20	A 5-bit, 1.6ps resolution true time delay optical beamforming network for 4-element antenna arrays. , 2021, , .		3
21	Low-Power (1.5 pJ/b) Silicon Integrated 106 Gb/s PAM-4 Optical Transmitter. Journal of Lightwave Technology, 2020, 38, 432-438.	4.6	13
22	Second-harmonic generation enabled by longitudinal electric-field components in photonic wire waveguides. Physical Review A, 2020, 102, .	2.5	8
23	Micro-transfer-printed III-V-on-Silicon C-Band Semiconductor Optical Amplifiers. Laser and Photonics Reviews, 2020, 14, 1900364.	8.7	50
24	36 Gb/s Narrowband Photoreceiver for mmWave Analog Radio-Over-Fiber. Journal of Lightwave Technology, 2020, 38, 3289-3295.	4.6	16
25	Assessment on the Achievable Throughput of Multi-Band ITU-T G.652.D Fiber Transmission Systems. Journal of Lightwave Technology, 2020, 38, 4279-4291.	4.6	184
26	Ultra-Dense III-V-on-Silicon Nitride Frequency Comb Laser. , 2020, , .		3
27	Micro-transfer-printed III-V-on-silicon C-band distributed feedback lasers. Optics Express, 2020, 28, 32793.	3.4	33
28	Heterogeneous III-V on silicon nitride amplifiers and lasers via microtransfer printing. Optica, 2020, 7, 386.	9.3	84
29	Integrated Mid-IR Waveguide Sensor for Laser Based Trace Analysis in Aqueous Solutions. , 2020, , .		0
30	SiPhotonics/GaAs 28-GHz Transceiver for mmWave-over-Fiber Laser-Less Active Antenna Units. , 2020, , .		4
31	Electro-Optic Frequency Response Shaping in High Speed Mach-Zehnder Modulators. , 2020, , .		2
32	50 GBd PAM4 transmitter with a 55nm SiGe BiCMOS driver and silicon photonic segmented MZM. Optics Express, 2020, 28, 23950.	3.4	16
33	RoF System Based on an III-V-on-Silicon Transceiver With a Transfer-Printed PD. IEEE Photonics Technology Letters, 2019, 31, 1045-1048.	2.5	4
34	Widely Tunable III-V/Silicon Lasers for Spectroscopy in the Short-Wave Infrared. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-12.	2.9	8
35	III-V-on-Si photonic integrated circuits realized using micro-transfer-printing. APL Photonics, 2019, 4, .	5.7	108
36	On-Chip Non-Dispersive Infrared CO2 Sensor Based On an Integrating Cylinder. Sensors, 2019, 19, 4260.	3.8	25

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37	Setting Carriers Free: Healing Faulty Interfaces Promotes Delocalization and Transport in Nanocrystal Solids. ACS Nano, 2019, 13, 12774-12786.	14.6	22
38	Recent Advances in the Photonic Integration of Mode-Locked Laser Diodes. IEEE Photonics Technology Letters, 2019, 31, 1870-1873.	2.5	39
39	Electronically Tunable Distributed Feedback (DFB) Laser on Silicon. Laser and Photonics Reviews, 2019, 13, 1800287.	8.7	21
40	Thermally Tunable Quantum Cascade Laser With an External Germanium-on-SOI Distributed Bragg Reflector. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-7.	2.9	5
41	4:1 Silicon Photonic Serializer for Data Center Interconnects Demonstrating 104 Gbaud OOK and PAM4 Transmission. Journal of Lightwave Technology, 2019, 37, 1498-1503.	4.6	21
42	Fast Wavelength-Tunable Lasers on Silicon. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-8.	2.9	10
43	Broadband Digital Fourier Transform Spectrometer for On-Chip Wavelength Monitoring in the 2.3- $\mu\text{m}$ Wavelength Range. IEEE Photonics Journal, 2019, 11, 1-9.	2.0	4
44	80-Gbps NRZ-OOK Electro-Absorption Modulation of InP-on-Si DFB Laser Diodes. IEEE Photonics Technology Letters, 2019, 31, 533-536.	2.5	3
45	53 GBd PAM-4 DAC-less low-power (1.5 pJ/b) silicon integrated transmitter. , 2019, , .		0
46	Ring-modulator-based RoF system with local SSB modulation and remote carrier reuse. Electronics Letters, 2019, 55, 1101-1104.	1.0	6
47	Si and Si-Rich Silicon-Nitride Waveguides for Optical Transmissions and Nonlinear Applications Around 2 $\mu\text{m}$ . , 2019, , .		0
48	Experimental Observation of Second Harmonic Generation Enabled by Longitudinal Components in Indium Gallium Phosphide Nanowires. , 2019, , .		0
49	III-V-on-Silicon Photonic Transceivers. , 2019, , .		1
50	Silicon Photonics Radio-Over-Fiber Transmitter Using GeSi EAMs for Frequency Up-Conversion. IEEE Photonics Technology Letters, 2019, 31, 181-184.	2.5	18
51	Silicon Waveguides for High-Speed Optical Transmissions and Parametric Conversion Around 2 $\mu\text{m}$ . IEEE Photonics Technology Letters, 2019, 31, 165-168.	2.5	14
52	Micro-Transfer-Printing of Al <sub>2</sub> O <sub>3</sub> -Capped Short-Wave-Infrared PbS Quantum Dot Photoconductors. ACS Applied Nano Materials, 2019, 2, 299-306.	5.0	14
53	$4 \times 25$ Gbps Polarization Diversity Silicon Photonics Receiver With Transfer Printed III-V Photodiodes. IEEE Photonics Technology Letters, 2019, 31, 287-290.	2.5	10
54	Real-Time and DSP-Free 128 Gb/s PAM-4 Link Using a Binary Driven Silicon Photonic Transmitter. Journal of Lightwave Technology, 2019, 37, 274-280.	4.6	17

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55	High-yield parallel transfer print integration of III-V substrate-illuminated C-band photodiodes on silicon photonic integrated circuits. , 2019, , .		4
56	27 dB gain III-V-on-silicon semiconductor optical amplifier with > 17 dBm output power. Optics Express, 2019, 27, 293.	3.4	43
57	A Novel Broadband Electro-Absorption Modulator Based on Bandfilling in n-InGaAs: Design and Simulations. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-8.	2.9	11
58	Integrated Silicon-on-Insulator Spectrometer With Single Pixel Readout for Mid-Infrared Spectroscopy. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-7.	2.9	22
59	High Extinction Ratio Hybrid Graphene-Silicon Photonic Crystal Switch. IEEE Photonics Technology Letters, 2018, 30, 157-160.	2.5	19
60	DAC-Less and DSP-Free 112 Gb/s PAM-4 Transmitter Using Two Parallel Electroabsorption Modulators. Journal of Lightwave Technology, 2018, 36, 1281-1286.	4.6	32
61	Vertical-Cavity Silicon-Integrated Laser with In-Plane Waveguide Emission at 850nm. Laser and Photonics Reviews, 2018, 12, 1700206.	8.7	23
62	45 Gb/s Direct Modulation of Two-Section InP-on-Si DFB Laser Diodes. IEEE Photonics Technology Letters, 2018, 30, 685-687.	2.5	8
63	Transfer Print Integration of Waveguide-Coupled Germanium Photodiodes Onto Passive Silicon Photonic ICs. Journal of Lightwave Technology, 2018, 36, 1249-1254.	4.6	18
64	III-V-on-Silicon C-Band High-Speed Electro-Absorption-Modulated DFB Laser. Journal of Lightwave Technology, 2018, 36, 252-257.	4.6	12
65	Physical origin of higher-order soliton fission in nanophotonic semiconductor waveguides. Scientific Reports, 2018, 8, 17177.	3.3	7
66	Vertical-Cavity Silicon-Integrated Lasers by Bonding and Transfer Printing. , 2018, , .		2
67	Electronically Tunable DFB Laser on Silicon. , 2018, , .		1
68	InP-on-Silicon Electronically Tunable Lasers. , 2018, , .		0
69	Introduction to the Special Issue on Emerging Areas in Integrated Photonics. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-3.	2.9	0
70	Transfer Printing for Silicon Photonics. Semiconductors and Semimetals, 2018, 99, 43-70.	0.7	23
71	Analog Radio-Over-Fiber Transceivers Based on III-V-on-Silicon Photonics. IEEE Photonics Technology Letters, 2018, 30, 1818-1821.	2.5	13
72	100-Gb/s Electro-Absorptive Duobinary Modulation of an InP-on-Si DFB Laser. IEEE Photonics Technology Letters, 2018, 30, 1095-1098.	2.5	15



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91	100-Gbps RZ Data Reception in 67-GHz Si-Contacted Germanium Waveguide p-i-n Photodetectors. Journal of Lightwave Technology, 2017, 35, 722-726.	4.6	69
92	2 Å– 56 Gbps Electroabsorption Modulated III-V-on-Silicon DFB Laser. , 2017, , .		0
93	Transfer Print Integration of 40Gbps Germanium Photodiodes onto Silicon Photonic ICs. , 2017, , .		1
94	DAC-less and DSP-free PAM-4 Transmitter at 112 Gb/s with Two Parallel GeSi Electro-Absorption Modulators. , 2017, , .		5
95	Integration of III-V light sources on a silicon photonics circuit by transfer printing. , 2017, , .		2
96	CMOS-compatible broadband co-propagative stationary Fourier transform spectrometer integrated on a silicon nitride photonics platform. Optics Express, 2017, 25, A409.	3.4	59
97	Silicon photonics fiber-to-the-home transceiver array based on transfer-printing-based integration of III-V photodetectors. Optics Express, 2017, 25, 14290.	3.4	44
98	Efficient 52 Åµm wavelength fiber-to-chip grating couplers for the Ge-on-Si and Ge-on-SOI mid-infrared waveguide platform. Optics Express, 2017, 25, 19034.	3.4	25
99	Broad wavelength coverage 23 Åµm III-V-on-silicon DFB laser array. Optica, 2017, 4, 972.	9.3	29
100	III-V-on-Silicon Photonic Integrated Circuits for Spectroscopic Sensing in the 2 Åµm Wavelength Range. Sensors, 2017, 17, 1788.	3.8	60
101	Electrically tunable absorption in graphene-integrated silicon photonic crystal cavity. , 2017, , .		1
102	High resolution silicon-on-insulator mid-infrared spectrometers operating at 3.3 Åµm. , 2017, , .		0
103	Demonstration of self-pulsating InP-on-Si DFB laser diodes. , 2017, , .		0
104	III-V-on-silicon three-section DBR laser with over 12 Åµm continuous tuning range. Optics Letters, 2017, 42, 1121.	3.3	16
105	~1 V bias 67 GHz bandwidth Si-contacted germanium waveguide p-i-n photodetector for optical links at 56 Gbps and beyond. Optics Express, 2016, 24, 4622.	3.4	141
106	23 Åµm range InP-based type-II quantum well Fabry-Perot lasers heterogeneously integrated on a silicon photonic integrated circuit. Optics Express, 2016, 24, 21081.	3.4	36
107	Compact GaSb/silicon-on-insulator 20x Åµm widely tunable external cavity lasers. Optics Express, 2016, 24, 28977.	3.4	46
108	Integration of a III-V light emitter on a silicon photonic IC through transfer printing. , 2016, , .		0

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109	Demonstration of a discretely tunable III-V/SOI sampled grating distributed feedback laser. , 2016, , .		0
110	Heterogeneously integrated III-V-on-silicon 2.3x $\lambda$ distributed feedback lasers based on a type-II active region. Applied Physics Letters, 2016, 109, .	3.3	21
111	Demonstration of a Discretely Tunable III-V-on-Silicon Sampled Grating DFB Laser. IEEE Photonics Technology Letters, 2016, 28, 2343-2346.	2.5	14
112	III-V-on-silicon 2- $\mu$ m-wavelength-range wavelength demultiplexers with heterogeneously integrated InP-based type-II photodetectors. Optics Express, 2016, 24, 8480.	3.4	34
113	High-bandwidth uni-traveling carrier waveguide photodetector on an InP-membrane-on-silicon platform. Optics Express, 2016, 24, 8290.	3.4	49
114	III-V-on-silicon integrated micro - spectrometer for the 3 $\lambda$ wavelength range. Optics Express, 2016, 24, 9465.	3.4	36
115	A 40-Gb/s QPSK/16-QAM Integrated Silicon Coherent Receiver. IEEE Photonics Technology Letters, 2016, 28, 2070-2073.	2.5	14
116	Novel adiabatic tapered couplers for active III-V/SOI devices fabricated through transfer printing. Optics Express, 2016, 24, 12976.	3.4	22
117	Transfer-printing-based integration of single-mode waveguide-coupled III-V-on-silicon broadband light emitters. Optics Express, 2016, 24, 13754.	3.4	64
118	Compact Low-Power-Consumption 28-Gbaud QPSK/16-QAM Integrated Silicon Photonic/Electronic Coherent Receiver. IEEE Photonics Journal, 2016, 8, 1-10.	2.0	13
119	56 Gb/s Germanium Waveguide Electro-Absorption Modulator. Journal of Lightwave Technology, 2016, 34, 419-424.	4.6	127
120	High Speed Direct Modulation of a Heterogeneously Integrated InP/SOI DFB Laser. Journal of Lightwave Technology, 2016, 34, 1683-1687.	4.6	22
121	Silicon-based Photonic Integrated Circuits for the Mid-infrared. Procedia Engineering, 2016, 140, 144-151.	1.2	8
122	Silicon photonics for on-chip spectrophotometry. , 2015, , .		0
123	28 Gb/s direct modulation heterogeneously integrated C-band InP/SOI DFB laser. Optics Express, 2015, 23, 26479.	3.4	25
124	III-V-on-Silicon Photonic Devices for Optical Communication and Sensing. Photonics, 2015, 2, 969-1004.	2.0	103
125	InP Microdisk Lasers Integrated on Si for Optical Interconnects. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 359-368.	2.9	19
126	28 Gb/s direct modulation heterogeneously integrated InP/Si DFB laser. , 2015, , .		4



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127	A waveguide coupled LED on SOI by heterogeneous integration of InP-based membranes. , 2015, , .		1
128	III-V-on-silicon photonic integrated circuits for communication and sensing applications. , 2015, , .		2
129	25-Gb/s 1310-nm Optical Receiver Based on a Sub-5-V Waveguide-Coupled Germanium Avalanche Photodiode. IEEE Photonics Journal, 2015, 7, 1-9.	2.0	15
130	Heterogeneously integrated DFB and DBR membrane lasers for high speed direct modulation. , 2015, , .		0
131	112 Gbit/s single-polarization silicon coherent receiver with hybrid-integrated BiCMOS linear TIA. , 2015, , .		2
132	1.7 kHz RF linewidth III-V-on-silicon mode-locked laser. , 2015, , .		0
133	Low loss silicon waveguides for the terahertz spectral region. , 2015, , .		0
134	An octave-spanning mid-infrared frequency comb generated in a silicon nanophotonic wire waveguide. Nature Communications, 2015, 6, 6310.	12.8	191
135	High-Responsivity Low-Voltage 28-Gb/s Ge p-i-n Photodetector With Silicon Contacts. Journal of Lightwave Technology, 2015, 33, 820-824.	4.6	75
136	High sensitivity 10Gb/s Si photonic receiver based on a low-voltage waveguide-coupled Ge avalanche photodetector. Optics Express, 2015, 23, 815.	3.4	56
137	Narrow-linewidth short-pulse III-V-on-silicon mode-locked lasers based on a linear and ring cavity geometry. Optics Express, 2015, 23, 3221.	3.4	33
138	III-V-on-silicon anti-colliding pulse-type mode-locked laser. Optics Letters, 2015, 40, 3057.	3.3	19
139	Low-optical-loss, low-resistance Ag/Ge based ohmic contacts to n-type InP for membrane based waveguide devices. Optical Materials Express, 2015, 5, 393.	3.0	17
140	Optimization of an Asymmetric DFB Laser Used as All-Optical Flip-Flop. IEEE Journal of Quantum Electronics, 2015, 51, 1-6.	1.9	1
141	An introduction to InP-based generic integration technology. Semiconductor Science and Technology, 2014, 29, 083001.	2.0	422
142	Broadband III-V on silicon hybrid superluminescent LEDs by quantum well intermixing and multiple die bonding. , 2014, , .		0
143	Ge-on-Si and Ge-on-SOI thermo-optic phase shifters for the mid-infrared. Optics Express, 2014, 22, 28479.	3.4	100
144	Hybrid III-V on Silicon Lasers for Photonic Integrated Circuits on Silicon. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 158-170.	2.9	144

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145	The micropatterning of layers of colloidal quantum dots with inorganic ligands using selective wet etching. <i>Nanotechnology</i> , 2014, 25, 175302.	2.6	18
146	Photonic integration in indium-phosphide membranes on silicon (IMOS). <i>Proceedings of SPIE</i> , 2014, , .	0.8	12
147	Silicon-Based Photonic Integration Beyond the Telecommunication Wavelength Range. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014, 20, 394-404.	2.9	106
148	Air-stable short-wave infrared PbS colloidal quantum dot photoconductors passivated with Al <sub>2</sub> O <sub>3</sub> atomic layer deposition. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	55
149	A low-resistance spiking-free n-type ohmic contact for InP membrane devices. , 2014, , .		2
150	III-V on-silicon sources for optical interconnect applications. , 2014, , .		0
151	Germanium-on-silicon planar concave grating wavelength (de)multiplexers in the mid-infrared. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	66
152	Integration of high performance silicon optical modulators. , 2013, , .		0
153	Nonlinear absorption and refraction in crystalline silicon in the mid-infrared. <i>Laser and Photonics Reviews</i> , 2013, 7, 1054-1064.	8.7	77
154	A Silicon Differential Receiver With Zero-Biased Balanced Detection for Access Networks. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 1207-1210.	2.5	4
155	Design of a High Contrast Grating GaSb-based VCSEL integrated on Silicon-on-Insulator. , 2013, , .		0
156	Germanium-on-Silicon Mid-Infrared Arrayed Waveguide Grating Multiplexers. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 1805-1808.	2.5	127
157	Optical Isolator for TE Polarized Light Realized by Adhesive Bonding of Ce:YIG on Silicon-on-Insulator Waveguide Circuits. <i>IEEE Photonics Journal</i> , 2013, 5, 6601108-6601108.	2.0	46
158	Design of a Hybrid III-V-on-Silicon Microlaser With Resonant Cavity Mirrors. <i>IEEE Photonics Journal</i> , 2013, 5, 2700413-2700413.	2.0	14
159	All-Optical Low-Power 2R Regeneration of 10-Gb/s NRZ Signals Using a III-V on SOI Microdisk Laser. <i>IEEE Photonics Journal</i> , 2013, 5, 7802510-7802510.	2.0	6
160	Demonstration of Silicon-on-insulator mid-infrared spectrometers operating at 381¼m. <i>Optics Express</i> , 2013, 21, 11659.	3.4	111
161	Ultra-thin DVS-BCB adhesive bonding of III-V wafers, dies and multiple dies to a patterned silicon-on-insulator substrate. <i>Optical Materials Express</i> , 2013, 3, 35.	3.0	147
162	Silicon-based heterogeneous photonic integrated circuits for the mid-infrared. <i>Optical Materials Express</i> , 2013, 3, 1523.	3.0	65

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163	Heterogeneously integrated III-V/silicon distributed feedback lasers. Optics Letters, 2013, 38, 5434.	3.3	93
164	Reflectionless Tilted Grating Couplers With Improved Coupling Efficiency Based on a Silicon Overlay. IEEE Photonics Technology Letters, 2013, 25, 1195-1198.	2.5	22
165	Silicon-on-insulator mid-infrared planar concave grating based (de)multiplexer. , 2013, , .		1
166	Silicon CMOS photonics platform for enabling high-speed DQPSK transceivers. , 2013, , .		1
167	Mid-infrared to telecom-band stable supercontinuum generation in hydrogenated amorphous silicon waveguides. , 2013, , .		2
168	Nonlinear Optics in Silicon Wire Waveguides: Towards Integrated Long Wavelength Light Sources. Materials Research Society Symposia Proceedings, 2012, 1437, 58.	0.1	0
169	Study of evanescently-coupled and grating-assisted GaInAsSb photodiodes integrated on a silicon photonic chip. Optics Express, 2012, 20, 11665.	3.4	51
170	Hybrid silicon lasers for optical interconnect. , 2012, , .		1
171	Miniaturized laser Doppler vibrometers integrated on silicon-on-insulator with thermo-optic serrodyne optical frequency shifter. , 2012, , .		0
172	Compact silicon differential receiver with integrated zero biased balanced detection. , 2012, , .		0
173	Demonstration of a novel single-mode hybrid silicon microlaser. , 2012, , .		3
174	A highly efficient electrically pumped optical amplifier integrated on a SOI waveguide circuit. , 2012, , .		9
175	An optically pumped nanophotonic InP/InGaAlAs optical amplifier integrated on a SOI waveguide circuit. Optical and Quantum Electronics, 2012, 44, 513-519.	3.3	6
176	Strategies to increase the modal gain in heterogeneously integrated III-V amplifiers on silicon-on-insulator. Optical and Quantum Electronics, 2012, 44, 683-689.	3.3	5
177	Integrated hybrid III-V/Si laser and transmitter. , 2012, , .		7
178	Hybrid III-V/Si Distributed-Feedback Laser Based on Adhesive Bonding. IEEE Photonics Technology Letters, 2012, 24, 2155-2158.	2.5	85
179	CMOS Compatible Silicon-on-Insulator Polarization Rotator Based on Symmetry Breaking of the Waveguide Cross Section. IEEE Photonics Technology Letters, 2012, 24, 2031-2034.	2.5	55
180	Silicon-on-Insulator All-Pass Microring Resonators Using a Polarization Rotating Coupling Section. IEEE Photonics Technology Letters, 2012, 24, 1176-1178.	2.5	15

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181	High-Efficiency SOI Fiber-to-Chip Grating Couplers and Low-Loss Waveguides for the Short-Wave Infrared. IEEE Photonics Technology Letters, 2012, 24, 1536-1538.	2.5	53
182	Bridging the mid-infrared-to-telecom gap with silicon nanophotonic spectral translation. Nature Photonics, 2012, 6, 667-671.	31.4	141
183	Low-Threshold Heterogeneously Integrated InP/SOI Lasers With a Double Adiabatic Taper Coupler. IEEE Photonics Technology Letters, 2012, 24, 76-78.	2.5	138
184	Silicon-on-Insulator Polarization Rotator Based on a Symmetry Breaking Silicon Overlay. IEEE Photonics Technology Letters, 2012, 24, 482-484.	2.5	60
185	Compact Mach-Zehnder Interferometer Ce:YIG/SOI Optical Isolators. IEEE Photonics Technology Letters, 2012, 24, 1653-1656.	2.5	28
186	Proof-of-concept demonstration of an all-optical de-multiplexer using III-V/SOI microdisk resonator fabricated in a CMOS pilot line. , 2011, , .		0
187	Laser sources on a heterogeneous III-V/silicon platform. , 2011, , .		0
188	1310-nm Hybrid III-V/Si Fabry-Pérot Laser Based on Adhesive Bonding. IEEE Photonics Technology Letters, 2011, 23, 1781-1783.	2.5	66
189	Widely tunable silicon mid-infrared optical parametric oscillator. , 2011, , .		1
190	A nanophotonic InP/InGaAlAs optical amplifier integrated on a SOI waveguide circuit. , 2011, , .		0
191	Ce:YIG/SOI optical isolator realized by BCB bonding. , 2011, , .		5
192	Silicon-on-Insulator polarization rotating micro-ring resonator. , 2011, , .		1
193	Mid-infrared to telecom-band supercontinuum generation in highly nonlinear silicon-on-insulator wire waveguides. Optics Express, 2011, 19, 20172.	3.4	162
194	50 dB parametric on-chip gain in silicon photonic wires. Optics Letters, 2011, 36, 4401.	3.3	70
195	Grating-Based Optical Fiber Interfaces for Silicon-on-Insulator Photonic Integrated Circuits. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 571-580.	2.9	114
196	Evanescent wave coupling in hybrid III-V/SOI nanolaser. , 2011, , .		0
197	Nonlinear silicon nanophotonics for mid-infrared applications. , 2011, , .		1
198	Optical Interconnect Technologies based on Silicon Photonics. Materials Research Society Symposia Proceedings, 2011, 1335, 113.	0.1	1

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199	Bridging the Gap Between Nanophotonic Waveguide Circuits and Single Mode Optical Fibers Using Diffractive Grating Structures. Journal of Nanoscience and Nanotechnology, 2010, 10, 1551-1562.	0.9	49
200	Hybrid Integrated Platforms for Silicon Photonics. Materials, 2010, 3, 1782-1802.	2.9	242
201	III-V/silicon photonics for on-chip and intra-chip optical interconnects. Laser and Photonics Reviews, 2010, 4, 751-779.	8.7	427
202	An ultra-small, low-power, all-optical flip-flop memory on a silicon chip. Nature Photonics, 2010, 4, 182-187.	31.4	369
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