Delphine Marris-Morini

List of Publications by Year in descending order

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282 papers

6,253 citations

38 h-index 76898 74 g-index

282 all docs 282 docs citations

times ranked

282

4565 citing authors

#	Article	IF	CITATIONS
1	Silicon-Germanium Avalanche Receivers With fJ/bit Energy Consumption. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-8.	2.9	15
2	Heterogeneous Integration of Doped Crystalline Zirconium Oxide for Photonic Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-13.	2.9	3
3	Supercontinuum generation in silicon photonics platforms. Photonics Research, 2022, 10, A43.	7.0	17
4	Mid-infrared Integrated Electro-optic Modulator Operating up to 225 MHz between 6.4 and 10.7 \hat{l} /4m Wavelength. ACS Photonics, 2022, 9, 249-255.	6.6	17
5	Mid-infrared Fourier-transform spectrometer based on metamaterial lateral cladding suspended silicon waveguides. Optics Letters, 2022, 47, 810.	3.3	9
6	Performant on-chip photonic detectors with lateral p-i-n silicon-germanium heterojunctions., 2022,,.		O
7	Near-infrared emission in Er- and Pr-doped YSZ crystalline superlattices. Journal of Luminescence, 2022, 246, 118844.	3.1	3
8	Frequency Chirp Characterization of Silicon Ring Resonator Modulators. IEEE Photonics Technology Letters, 2022, 34, 653-656.	2.5	1
9	Capacitive Modulator Design Optimization Using Si and Strained-SiGe for Datacom Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-8.	2.9	6
10	Dual-band fiber-chip grating coupler in a 300 mm silicon-on-insulator platform and 193 nm deep-UV lithography. Optics Letters, 2021, 46, 617.	3.3	12
11	Guest Editorial JQE Special Virtual Issue Dedicated to the 22nd European Conference on Integrated Optics (ECIO). IEEE Journal of Quantum Electronics, 2021, 57, 1-3.	1.9	О
12	Design and simulation of waveguide-integrated Ge/SiGe quantum-confined Stark effect optical modulator based on adiabatic coupling with SiGe waveguide. AIP Advances, 2021, 11, .	1.3	4
13	Frequency comb generation and dual comb spectrocopy using silicon modulators. , 2021, , .		O
14	Compact widely tunable MIR source, QCL and micro-lenses array based., 2021,,.		0
15	Silicon photonic on-chip spatial heterodyne Fourier transform spectrometer exploiting the Jacquinot's advantage. Optics Letters, 2021, 46, 1341.	3.3	10
16	Design and Simulation Investigation of Si3N4 Photonics Circuits for Wideband On-Chip Optical Gas Sensing around 2 µm Optical Wavelength. Sensors, 2021, 21, 2513.	3.8	6
17	Silicon photonics phase and intensity modulators for flat frequency comb generation. Photonics Research, 2021, 9, 2068.	7.0	2
18	Broadband Fourier-transform silicon nitride spectrometer with wide-area multiaperture input. Optics Letters, 2021, 46, 4021.	3.3	14

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19	Silicon–germanium receivers for short-wave-infrared optoelectronics and communications. Nanophotonics, 2021, 10, 1059-1079.	6.0	51
20	Metamaterial-Engineered Silicon Beam Splitter Fabricated with Deep UV Immersion Lithography. Nanomaterials, 2021, 11, 2949.	4.1	9
21	Heterostructured silicon-germanium-silicon p-i-n avalanche photodetectors for chip-integrated optoelectronics -INVITED. EPJ Web of Conferences, 2021, 255, 01002.	0.3	O
22	Broadband mid-infrared integrated electro-optic modulator based on a Schottky diode embedded in a graded SiGe waveguide. , $2021,$, .		0
23	Silicon-based broadband metalens for wide-angle optical beam steering. , 2021, , .		1
24	Silicon ring modulator for broadband electro-optical frequency comb generation., 2021,,.		0
25	Silicon-Germanium Heterojunction Photodetectors for On-Chip Optoelectronics and Communications., 2021,,.		1
26	Silicon nitride on-chip spatial heterodyne Fourier-transform spectrometer with high \tilde{A} ©tendue and broadband operation. , 2021, , .		0
27	Silicon Photonics Platform from Datacom to Sensing Applications. , 2021, , .		1
28	Comprehensive Study on Chip-Integrated Germanium Pin Photodetectors for Energy-Efficient Silicon Interconnects. IEEE Journal of Quantum Electronics, 2020, 56, 1-9.	1.9	25
29	Erbium-Doped Yttria-Stabilized Zirconia Thin Layers for Photonic Applications. IEEE Journal of Quantum Electronics, 2020, 56, 1-7.	1.9	7
30	On-Chip Mid-Infrared Supercontinuum Generation from 3 to 13 $\hat{l}\sqrt[4]{m}$ Wavelength. ACS Photonics, 2020, 7, 3423-3429.	6.6	52
31	Editorial Introduction to JSTQE Issue on Silicon Photonics. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-3.	2.9	0
32	Optical modulation in Ge-rich SiGe waveguides in the mid-infrared wavelength range up to $11\ \hat{A}\mu\text{m}.$ Communications Materials, 2020, 1, .	6.9	21
33	Analysis of Si3N4 waveguides for on-chip gas sensing by optical absorption within the mid-infrared region between 2.7 and 3.4µm. Results in Physics, 2020, 16, 102957.	4.1	14
34	Frequency-tuning dual-comb spectroscopy using silicon Mach-Zehnder modulators. Optics Express, 2020, 28, 10888.	3.4	5
35	Ge-rich graded SiGe waveguides and interferometers from 5 to 11â€Âµm wavelength range. Optics Express, 2020, 28, 12771.	3.4	21
36	Ultra-wideband dual-polarization silicon nitride power splitter based on modal engineered slot waveguides. Optics Letters, 2020, 45, 527.	3.3	6

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37	Subwavelength engineering for Brillouin gain optimization in silicon optomechanical waveguides. Optics Letters, 2020, 45, 3717.	3.3	7
38	Polarization independent and temperature tolerant AWG based on a silicon nitride platform. Optics Letters, 2020, 45, 6559.	3.3	14
39	40  Gbps heterostructure germanium avalanche photo receiver on a silicon chip. Optica, 2020, 7, 775.	9.3	34
40	Broadband supercontinuum generation in nitrogen-rich silicon nitride waveguides using a 300  mm industrial platform. Photonics Research, 2020, 8, 352.	7.0	32
41	Dielectric flat lens for the MIR region. , 2020, , .		0
42	Si capacitive modulator integration in a 300mm silicon photonics platform with strained-SiGe to enhance the electro-optic effect. , 2020, , .		1
43	SiGe photonic circuits for mid IR spectroscopy. , 2020, , .		0
44	High-speed optical modulation based on Pockels effect in strained silicon waveguides. , 2020, , .		1
45	Photonic crystal and quasi photonic crystal Ge-on-Si lenses for the combination of QCL array outputs. , 2020, , .		0
46	Strain induced Pockels effect in silicon for electro-optic modulation. , 2020, , .		0
47	Thermo-optically tuned spatial heterodyne Fourier-transform spectrometer. , 2020, , .		O
48	28 Gbps silicon-germanium hetero-structure avalanche photodetectors., 2020,,.		0
49	Heterodyne detection for the measurement of electro-optical frequency combs generated with a silicon Mach-Zehnder modulator. , 2020, , .		0
50	Dual comb spectroscopy using silicon electro-optical modulators. , 2020, , .		0
51	Building blocks of silicon photonics. Semiconductors and Semimetals, 2019, 101, 1-41.	0.7	3
52	Coherencyâ€Broken Bragg Filters: Overcoming Onâ€Chip Rejection Limitations. Laser and Photonics Reviews, 2019, 13, 1800226.	8.7	36
53	On-chip Fourier-transform spectrometer based on spatial heterodyning tuned by thermo-optic effect. Scientific Reports, 2019, 9, 14633.	3.3	41
54	Broadband Mid-IR On-Chip Fourier-Transform Spectrometer. , 2019, , .		0

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55	Ultra-Broadband Polarization-Independent Silicon Beam Splitter Based on Modal and Symmetry Engineering. , 2019, , .		O
56	Sub-decibel silicon grating couplers based on L-shaped waveguides and engineered subwavelength metamaterials. Optics Express, 2019, 27, 26239.	3.4	38
57	Polarization- and wavelength-agnostic nanophotonic beam splitter. Scientific Reports, 2019, 9, 3604.	3.3	25
58	Recent Progress on Ge/SiGe Quantum Well Optical Modulators, Detectors, and Emitters for Optical Interconnects. Photonics, 2019, 6, 24.	2.0	26
59	Diffraction-less propagation beyond the sub-wavelength regime: a new type of nanophotonic waveguide. Scientific Reports, 2019, 9, 5347.	3.3	10
60	Broadband Mid-IR on-Chip Fourier-Transform Spectrometer. , 2019, , .		0
61	Silicon photonic spiral shape resonator applied to the optoelectronic oscillator. IET Optoelectronics, 2019, 13, 303-307.	3.3	3
62	SiGe-enhanced Si capacitive modulator integration in a 300 mm silicon photonics platform for low power consumption. Optics Express, 2019, 27, 17701.	3.4	9
63	Nonlinear third order silicon photonics enabled by dispersion and subwavelength engineering. , 2019, , .		1
64	Broadband integrated racetrack ring resonators for long-wave infrared photonics. Optics Letters, 2019, 44, 407.	3.3	25
65	Dual-polarization silicon nitride Bragg filters with low thermal sensitivity. Optics Letters, 2019, 44, 4578.	3.3	11
66	25  Gbps low-voltage hetero-structured silicon-germanium waveguide pin photodetectors for monolithic on-chip nanophotonic architectures. Photonics Research, 2019, 7, 437.	7.0	54
67	Ge-rich graded-index Si1-xGex racetrack resonators for long-wave infrared photonics. , 2019, , .		O
68	High-performance waveguide photodetectors based on lateral Si/Ge/Si heterojunction., 2019,,.		0
69	Towards optical amplification in complex functional oxides: exploring optical gain in erbium-doped yttria-stabilized zirconia waveguides. , 2019, , .		1
70	Ge-rich SiGe-based wideband polarization insensitive photonic platform for mid-infrared free-space communications., 2019,,.		0
71	Mid-infrared integrated wideband duel-polarization Fourier-transform spectrometer., 2019,,.		0
72	Generation of O-band PAM-4 signal using a silicon modulator driven by two binary sequences. , 2019, , .		O

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73	Enhanced performance of integrated silicon nanophotonic devices engineered by sub-wavelength grating structures. , $2019, \dots$		1
74	Optical gain evaluation on rare-earth doped Yttria-stabilized zirconia for hybrid integration on silicon photonics platforms. , 2019, , .		O
75	Integrated broadband mid-infrared polarization insensitive Fourier-Transform spectrometer. , 2018, , .		O
76	Germanium-based integrated photonics from near- to mid-infrared applications. Nanophotonics, 2018, 7, 1781-1793.	6.0	128
77	Generating Fano Resonances in a Single-Waveguide Silicon Nanobeam Cavity for Efficient Electro-Optical Modulation. ACS Photonics, 2018, 5, 4229-4237.	6.6	20
78	Fast linear electro-optic effect in a centrosymmetric semiconductor. Communications Physics, 2018, 1,	5. 3	28
79	Wideband Ge-Rich SiGe Polarization-Insensitive Waveguides for Mid-Infrared Free-Space Communications. Applied Sciences (Switzerland), 2018, 8, 1154.	2.5	10
80	Silicon Modulators for the Generation of Advanced Modulation Formats. , 2018, , .		O
81	Broadband Polarization Beam Splitter on a Silicon Nitride Platform for O-Band Operation. IEEE Photonics Technology Letters, 2018, 30, 1679-1682.	2.5	28
82	QPSK Modulation in the O-Band Using a Single Dual-Drive Mach–Zehnder Silicon Modulator. Journal of Lightwave Technology, 2018, 36, 3935-3940.	4.6	8
83	Graded SiGe waveguides with broadband low-loss propagation in the mid infrared. Optics Express, 2018, 26, 870.	3.4	93
84	Low loss poly-silicon for high performance capacitive silicon modulators. Optics Express, 2018, 26, 5983.	3.4	9
85	Mid-infrared sensing between 52 and 66 µm wavelengths using Ge-rich SiGe waveguides [Invited]. Optical Materials Express, 2018, 8, 1305.	3.0	43
86	Mode selection and dispersion engineering in Bragg-like slot photonic crystal waveguides for hybrid light–matter interactions. Photonics Research, 2018, 6, 54.	7.0	2
87	Adjusting third-order nonlinear properties in silicon triply resonant nanobeam cavities. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 636.	2.1	3
88	High-quality crystalline yttria-stabilized-zirconia thin layer for photonic applications. Physical Review Materials, 2018, 2, .	2.4	12
89	Integrated SiN on SOI dual photonic devices for advanced datacom solutions. , 2018, , .		14
90	On-chip Bragg grating waveguides and Fabry-Perot resonators for long-wave infrared operation up to 84 µm. Optics Express, 2018, 26, 34366.	3.4	16

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91	Integrated broadband dual-polarization Ge-rich SiGe mid-infrared Fourier-transform spectrometer. Optics Letters, 2018, 43, 5021.	3.3	32
92	O-band Energy-efficient Broadcast-friendly Interconnection Scheme with SiPho Mach-Zehnder Modulator (MZM) & Arrayed Waveguide Grating Router (AWGR)., 2018,,.		14
93	Ge-rich SiGe photonic-integrated circuits for mid-IR spectroscopy. , 2018, , .		О
94	Ge-rich graded-index Si1-xGex devices for Mid-IR integrated photonics. , 2018, , .		0
95	Advanced modulation format using silicon modulators in the O-band. , 2018, , .		O
96	Ge-rich SiGe waveguides for supercontinuum generation in the mid-IR. , 2018, , .		0
97	Silicon coupled cavities as a flexible platform for integrated nonlinear photonics. , 2018, , .		О
98	Low loss grating coupled optical interfaces for large volume fabrication with deep ultraviolet optical lithography. , 2018, , .		0
99	Mode converters based on periodically perturbed waveguides for mode division multiplexing. , 2018, , .		1
100	7.5 µm wavelength fiber-chip grating couplers for Ge-rich SiGe photonics integrated circuits. , 2018, , .		1
101	Ge-rich SiGe waveguides for mid-infrared photonics. Proceedings of SPIE, 2017, , .	0.8	1
102	Second-order nonlinearities in strained silicon photonic structures (Conference Presentation). , 2017, , .		0
103	Polarization insensitive Ge-rich silicon germanium waveguides for optical interconnects on silicon., $2017, \dots$		О
104	Strain induced by functional oxides for silicon photonics applications. Proceedings of SPIE, 2017, , .	0.8	0
105	Subwavelength Si photonics for near- and mid-infrared applications (Conference Presentation). , 2017, , .		0
106	Simplified model enabling optimization of silicon modulators. , 2017, , .		1
107	Hybrid integration of carbon nanotubes in silicon photonic structures. Proceedings of SPIE, 2017, , .	0.8	0
108	Silicon nitride waveguide-integrated Ge/SiGe quantum wells optical modulator. Journal of Physics: Conference Series, 2017, 901, 012152.	0.4	3

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109	Comprehensive description of the electro-optic effects in strained silicon waveguides. Journal of Applied Physics, 2017, 122, 153105.	2.5	10
110	Nonlinear Properties of Ge-rich Silâ^'xGex Materials with Different Ge Concentrations. Scientific Reports, 2017, 7, 14692.	3.3	28
111	Integration of carbon nanotubes on silicon photonics resonators. , 2017, , .		O
112	Nonlinear properties of Ge-rich SiGe waveguides. , 2017, , .		0
113	Broadband mid infrared photonic integrated components using a Ge-rich SiGe platform. , 2017, , .		O
114	High-performance sub-wavelength engineered silicon Bragg-rejection filters. , 2017, , .		0
115	Strained silicon photonics for Pockels effect based modulation. , 2017, , .		O
116	Sub-wavelength silicon grating metamaterial ring resonators. , 2017, , .		2
117	Third order nonlinear optical properties of Ge-Rich SiGe waveguides. , 2017, , .		O
118	Design and integration of an O-band silicon nitride AWG for CWDM applications. , 2017, , .		8
119	Bragg grating filter for suspended silicon waveguides. , 2017, , .		O
120	25 Gbit/s O-Band push-pull Mach-Zehnder silicon modulator for datacom applications. , 2017, , .		0
121	Dispersion control of silicon nanophotonic waveguides using sub-wavelength grating metamaterials in near- and mid-IR wavelengths. Optics Express, 2017, 25, 19468.	3.4	36
122	Ge-rich graded-index Si_1-xGex waveguides with broadband tight mode confinement and flat anomalous dispersion for nonlinear mid-infrared photonics. Optics Express, 2017, 25, 6561.	3.4	44
123	Low voltage 25Gbps silicon Mach-Zehnder modulator in the O-band. Optics Express, 2017, 25, 11217.	3.4	33
124	Integrated waveguide PIN photodiodes exploiting lateral Si/Ge/Si heterojunction. Optics Express, 2017, 25, 19487.	3.4	84
125	L-shaped fiber-chip grating couplers with high directionality and low reflectivity fabricated with deep-UV lithography. Optics Letters, 2017, 42, 3439.	3.3	77
126	Ultra-wideband Ge-rich silicon germanium integrated Mach–Zehnder interferometer for mid-infrared spectroscopy. Optics Letters, 2017, 42, 3482.	3.3	38

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127	Extrinsic losses in silicon slot photonic crystal waveguides: influence of the fabrication process., 2017,,.		О
128	Design of mid-IR integrated cavity based on Ge-rich graded SiGe waveguides. , 2017, , .		O
129	Electro-Refraction in Standard and Symmetrically Coupled Ge/SiGe Quantum Wells. Nanoscience and Nanotechnology Letters, 2017, 9, 1123-1127.	0.4	0
130	Low-loss Ge-rich Si_02Ge_08 waveguides for mid-infrared photonics. Optics Letters, 2017, 42, 105.	3.3	56
131	Optical pump-rejection filter based on silicon sub-wavelength engineered photonic structures. Optics Letters, 2017, 42, 1468.	3.3	45
132	Optimization of Silicon MZM Fabrication Parameters for High Speed Short Reach Interconnects at 1310 nm. Applied Sciences (Switzerland), 2016, 6, 395.	2.5	4
133	Simplified modeling and optimization of silicon modulators based on free-carrier plasma dispersion effect. Optics Express, 2016, 24, 26332.	3.4	33
134	High-quality photonic entanglement for wavelength-multiplexed quantum communication based on a silicon chip. Optics Express, 2016, 24, 28731.	3.4	59
135	High-speed coherent silicon modulator module using photonic integrated circuits: from circuit design to packaged module. , 2016 , , .		1
136	Design of integrated capacitive modulators for 56Gbps operation. , 2016, , .		4
137	Electro-Optical Ring Modulator: An Ultracompact Model for the Comparison and Optimization of p-n, p-i-n, and Capacitive Junction. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 89-98.	2.9	16
138	Highly efficient silicon capacitive modulators based on a vertical oxide layer. , 2016, , .		O
139	Ge-rich silicon germanium as a new platform for optical interconnects on silicon. , 2016, , .		0
140	Silicon modulator based on interleaved capacitors in subwavelength grating waveguides. , 2016, , .		5
141	Silicon germanium on graded buffer as a new platform for optical interconnects on silicon. Proceedings of SPIE, 2016, , .	0.8	0
142	Electro-absorption and electro-refraction in Ge/SiGe coupled quantum wells. , 2016, , .		0
143	Integrated mode converter for mode division multiplexing. , 2016, , .		1
144	Silicon-on-insulator integrated tunable polarization controller (Conference Presentation)., 2016,,.		0

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145	Broadband single mode SiGe graded waveguides with tight mode confinement for mid-infrared photonics. , $2016, \ldots$		O
146	Bond orbital description of the strain-induced second-order optical susceptibility in silicon. Physical Review B, 2016, 93, .	3.2	16
147	Roadmap on silicon photonics. Journal of Optics (United Kingdom), 2016, 18, 073003.	2.2	915
148	DAPHNE silicon photonics technological platform for research and development on WDM applications. , 2016, , .		8
149	Monolithic Integrated Slot-Blocker for High Datarate Coherent Optical Slot Switched Networks. Journal of Lightwave Technology, 2016, 34, 1807-1814.	4.6	7
150	Silicon-chip generation of multiplexed telecom-wavelength entangled photons pairs. , 2016, , .		0
151	Subwavelength engineered fiber-to-chip silicon-on-sapphire interconnects for mid-infrared applications (Conference Presentation). , 2016, , .		O
152	Development of silicon nitride arrayed waveguide grating by physical vapor deposition at room temperature. , 2015, , .		2
153	Sharp bends and Mach-Zehnder interferometer based on Ge-rich-SiGe waveguides on SiGe graded buffer. Optics Express, 2015, 23, 30821.	3.4	15
154	Giant electro-optic effect in Ge/SiGe coupled quantum wells. Scientific Reports, 2015, 5, 15398.	3.3	23
155	Strained silicon for photonics applications. , 2015, , .		1
156	Comparison among Silicon modulators based on Free-Carrier Plasma Dispersion Effect. , 2015, , .		1
157	Demonstration of integrated polarization control with a 40  dB range in extinction ratio. Optica, 2015, 2, 1019.	9.3	33
158	Ge/SiGe multiple quantum wells for photonic integrated circuits on silicon. , 2015, , .		0
159	Modeling TID Effects in Mach-Zehnder Interferometer Silicon Modulator for HL-LHC Data Transmission Applications. IEEE Transactions on Nuclear Science, 2015, 62, 2971-2978.	2.0	17
160	Packaging optimization of an electro-optical modulator for high data-rate communications. , 2015, , .		0
161	Effect of Radiation on a Mach–Zehnder Interferometer Silicon Modulator for HL-LHC Data Transmission Applications. IEEE Transactions on Nuclear Science, 2015, 62, 329-335.	2.0	37
162	Optical Interconnects based on Ge/SiGe Multiple Quantum Well Structures., 2015,,.		0

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163	Add/Drop Mode-Division Multiplexer Based on a Mach–Zehnder Interferometer and Periodic Waveguides. IEEE Photonics Journal, 2015, 7, 1-7.	2.0	15
164	High-performance waveguide-integrated germanium PIN photodiodes for optical communication applications. , $2014, \ldots$		5
165	O-band quantum-confined Stark effect optical modulator from Ge/Si0.15Ge0.85 quantum wells by well thickness tuning. Journal of Applied Physics, 2014, 116, .	2.5	17
166	(Invited) Photonic Interconnection Made by a Ge/SiGe MQW Modulator Connected to a Ge/SiGe MQW Photodetector through a SiGe Waveguide. ECS Transactions, 2014, 64, 761-773.	0.5	2
167	Modeling of PN interleaved phase shifters for high speed silicon modulators. , 2014, , .		2
168	Silicon photonics for high energy physics data transmission applications. , 2014, , .		4
169	Pockels effect study in strained silicon Mach-Zenhder interferometer. , 2014, , .		2
170	High quality SiGe waveguide platform for Ge photonics on bulk silicon substrates. , 2014, , .		0
171	Evaluation of the performances of a silicon optical modulator based on a silicon-oxide-silicon capacitor., 2014,,.		9
172	Introducing photonic devices for 40Gbits/s wavelength division multiplexing transceivers on 300-mm SOI wafers using CMOS processes. , 2014, , .		0
173	Advances towards the demonstration of a Ge/SiGe modulator integrated on SOI. , 2014, , .		0
174	Low-Power consumption Franz-Keldysh effect plasmonic modulator. Optics Express, 2014, 22, 11236.	3.4	26
175	Wavelength dependence of Pockels effect in strained silicon waveguides. Optics Express, 2014, 22, 22095.	3.4	46
176	(Invited) Waveguide Germanium PIN Photodiodes for Optical Communication Applications. ECS Transactions, 2014, 64, 729-735.	0.5	0
177	A CMOS-compatible Franz-Keldysh effect plasmonic modulator. , 2014, , .		3
178	GeSi photonics for telecommunication applications. , 2014, , .		0
179	A 40 Gbit/s optical link on a 300-mm silicon platform. Optics Express, 2014, 22, 6674.	3.4	39
180	Advances Toward Ge/SiGe Quantum-Well Waveguide Modulators at 1.3μm. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 33-39.	2.9	27

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181	Recent progress in GeSi electro-absorption modulators. Science and Technology of Advanced Materials, 2014, 15, 014601.	6.1	27
182	Germanium avalanche receiver for low power interconnects. Nature Communications, 2014, 5, 4957.	12.8	112
183	Integrated germanium optical interconnects on silicon substrates. Nature Photonics, 2014, 8, 482-488.	31.4	196
184	Ge quantum-well waveguide modulator at $1.3\hat{l}\frac{1}{4}$ m. Proceedings of SPIE, 2014, , .	0.8	0
185	40 Gbit/s silicon modulators fabricated on 200-mm and 300-mm SOI wafers. , 2014, , .		O
186	40 Gb/s low-loss self-aligned silicon optical modulator. , 2013, , .		1
187	Design of electroabsorption modulator based on Ge/SiGe multiple quantum wells, integrated on SOI waveguides. , 2013, , .		O
188	A Silicon Differential Receiver With Zero-Biased Balanced Detection for Access Networks. IEEE Photonics Technology Letters, 2013, 25, 1207-1210.	2.5	4
189	Ge quantum well optoelectronic devices for light modulation, detection, and emission. Solid-State Electronics, 2013, 83, 92-98.	1.4	10
190	Ge/SiGe quantum well optical modulator. Proceedings of SPIE, 2013, , .	0.8	1
191	Phase-shift in waveguide integrated Ge quantum wells. , 2013, , .		0
192	Ge on Si waveguide-integrated photodiodes for high speed and low power receivers. , 2013, , .		1
193	Low loss 40 Gbit/s silicon modulator based on interleaved junctions and fabricated on 300 mm SOI wafers. Optics Express, 2013, 21, 22471.	3.4	64
194	High-performance waveguide-integrated germanium PIN photodiodes for optical communication applications [Invited]. Photonics Research, 2013, 1, 140.	7.0	54
195	High Extinction Ratio, Low Energy Ge Quantum Well Electro-Absorption Modulator with 23 GHz Bandwidth. ECS Transactions, 2013, 50, 387-392.	0.5	O
196	Optical Modulation. Series in Optics and Optoelectronics, 2013, , 439-478.	0.0	0
197	Towards low energy consumption integrated photonic circuits based on Ge/SiGe quantum wells. Nanophotonics, 2013, 2, 279-288.	6.0	5
198	40Gbit/s germanium waveguide photodetector on silicon. , 2012, , .		5

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199	Diffraction-compensated dispersion-accumulated superprism based on two cascaded photonic crystals. Proceedings of SPIE, 2012, , .	0.8	О
200	Zero-bias 40Gbit/s germanium waveguide photodetector on silicon. Optics Express, 2012, 20, 1096.	3.4	368
201	23 GHz Ge/SiGe multiple quantum well electro-absorption modulator. Optics Express, 2012, 20, 3219.	3.4	108
202	Experimental demonstration of light bending at optical frequencies using a non-homogenizable graded photonic crystal. Optics Express, 2012, 20, 4776.	3.4	30
203	Quantum-confined Stark effect at 13Âμm in Ge/Si_035Ge_065 quantum-well structure. Optics Letters, 2012, 37, 3960.	3.3	29
204	Compact silicon differential receiver with integrated zero biased balanced detection., 2012,,.		0
205	40 Gbit/s low-loss silicon optical modulator based on a pipin diode. Optics Express, 2012, 20, 10591.	3.4	99
206	Electroabsorption based on quantum-confined Stark effect from Ge/SiGe multiple quantum wells. Proceedings of SPIE, 2012, , .	0.8	0
207	Room temperature direct-gap electroluminescence in Ge/SiGe quantum well waveguides. Proceedings of SPIE, 2012, , .	0.8	0
208	Ring resonator silicon optical modulator based on interleaved PN junctions. , 2012, , .		0
209	High-speed silicon optical modulator based on a PIPIN diode. , 2012, , .		О
210	Analytic design of chirped planar photonic crystals in the metamaterial regime. Proceedings of SPIE, 2012, , .	0.8	0
211	Experimental demonstration of light bending effect at optical wavelengths in a non-homogenizable graded photonic crystal., 2012,,.		0
212	Slow light in slot photonic crystal waveguides by dispersion engineering. Proceedings of SPIE, 2012, , .	0.8	1
213	10 Gbit/s Silicon modulator and germanium detector chip-to-chip optical link. Optical and Quantum Electronics, 2012, 44, 581-587.	3.3	О
214	Ge/SiGe Multiple Quantum Well Optoelectronic Devices for Silicon Photonics., 2012,,.		0
215	Latest developments of 40G silicon photonics active devices. , 2012, , .		0
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