Laurent Vivien

List of Publications by Year
in descending order

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406 papers	9,784 citations	41344 49 h-index	48315 88 g-index
406 all docs	406 docs citations	406 times ranked	6599 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 Î¼m Wavelength. ACS Photonics, 2022, 9, 249-255.	6.6	17
5	Strong pump rejection filter for polarization-diverse silicon platforms. Optics Letters, 2022, 47, 341.	3.3	0
6	Boosting the SiN nonlinear photonic platform with transition metal dichalcogenide monolayers. Optics Letters, 2022, 47, 734.	3.3	1
7	Mid-infrared Fourier-transform spectrometer based on metamaterial lateral cladding suspended silicon waveguides. Optics Letters, 2022, 47, 810.	3.3	9
8	Performant on-chip photonic detectors with lateral p-i-n silicon-germanium heterojunctions. , 2022, , .		0
9	Near-infrared emission in Er- and Pr-doped YSZ crystalline superlattices. Journal of Luminescence, 2022, 246, 118844.	3.1	3
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	0
12	Enhancing SiN waveguide optical nonlinearity via hybrid GaS integration. Journal of Optics (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.2	6
13	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
14	Silicon photonic on-chip spatial heterodyne Fourier transform spectrometer exploiting the Jacquinotâ€™s advantage. Optics Letters, 2021, 46, 1341.	3.3	10
15	Design and Simulation Investigation of Si3N4 Photonics Circuits for Wideband On-Chip Optical Gas Sensing around 2 Âµm Optical Wavelength. Sensors, 2021, 21, 2513.	3.8	6
16	Silicon photonics phase and intensity modulators for flat frequency comb generation. Photonics Research, 2021, 9, 2068.	7.0	2
17	Broadband Fourier-transform silicon nitride spectrometer with wide-area multiaperture input. Optics Letters, 2021, 46, 4021.	3.3	14
18	Enhancing Si₃N₄ Waveguide Nonlinearity with Heterogeneous Integration of Few-Layer WS₂. ACS Photonics, 2021, 8, 2713-2721.	6.6	20

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19	Silicon slotted photonic crystal cavities fabricated by deep-ultraviolet lithography. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 2898.	2.1	4
20	Doubly resonant distributed feedback cavity with controllable wide wavelength separation. Optics Communications, 2021, 494, 127064.	2.1	2
21	Siliconâ€“germanium receivers for short-wave-infrared optoelectronics and communications. Nanophotonics, 2021, 10, 1059-1079.	6.0	51
22	Metamaterial-Engineered Silicon Beam Splitter Fabricated with Deep UV Immersion Lithography. Nanomaterials, 2021, 11, 2949.	4.1	9
23	Heterostructured silicon-germanium-silicon p-i-n avalanche photodetectors for chip-integrated optoelectronics -INVITED. EPJ Web of Conferences, 2021, 255, 01002.	0.3	0
24	Broadband mid-infrared integrated electro-optic modulator based on a Schottky diode embedded in a graded SiGe waveguide. , 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 Ã©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	Potential for sub-mm long erbium-doped composite silicon waveguide DFB lasers. Scientific Reports, 2020, 10, 10878.	3.3	4
30	On-Chip Mid-Infrared Supercontinuum Generation from 3 to 13 Î¼m Wavelength. ACS Photonics, 2020, 7, 3423-3429.	6.6	52
31	Optical modulation in Ge-rich SiGe waveguides in the mid-infrared wavelength range up to 11 Âµm. Communications Materials, 2020, 1, .	6.9	21
32	Analysis of Si3N4 waveguides for on-chip gas sensing by optical absorption within the mid-infrared region between 2.7 and 3.4ÂÂµm. Results in Physics, 2020, 16, 102957.	4.1	14
33	Integration of Semiconducting Carbon Nanotubes Within a Silicon Photonic Molecule. IEEE Photonics Journal, 2020, 12, 1-8.	2.0	3
34	Stretching the spectra of Kerr frequency combs with self-adaptive boundary silicon waveguides. Advanced Photonics, 2020, 2, 1.	11.8	10
35	Frequency-tuning dual-comb spectroscopy using silicon Mach-Zehnder modulators. Optics Express, 2020, 28, 10888.	3.4	5
36	Ge-rich graded SiGe waveguides and interferometers from 5 to 11â€…Âµm wavelength range. Optics Express, 2020, 28, 12771.	3.4	21

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37	Erbium-doped hybrid waveguide amplifiers with net optical gain on a fully industrial 300 mm silicon nitride photonic platform. Optics Express, 2020, 28, 27919.	3.4	20
38	Ultra-wideband dual-polarization silicon nitride power splitter based on modal engineered slot waveguides. Optics Letters, 2020, 45, 527.	3.3	6
39	Silicon subwavelength modal Bragg grating filters with narrow bandwidth and high optical rejection. Optics Letters, 2020, 45, 5784.	3.3	12
40	Subwavelength engineering for Brillouin gain optimization in silicon optomechanical waveguides. Optics Letters, 2020, 45, 3717.	3.3	7
41	Polarization independent and temperature tolerant AWG based on a silicon nitride platform. Optics Letters, 2020, 45, 6559.	3.3	14
42	40â€‰â€‰Gbps heterostructure germanium avalanche photo receiver on a silicon chip. Optica, 2020, 7, 775.	9.3	34
43	Broadband supercontinuum generation in nitrogen-rich silicon nitride waveguides using a 300â€‰â€‰mm industrial platform. Photonics Research, 2020, 8, 352.	7.0	32
44	Third-order nonlinear optical susceptibility of crystalline oxide yttria-stabilized zirconia. Photonics Research, 2020, 8, 110.	7.0	19
45	SiGe photonic circuits for mid IR spectroscopy. , 2020, , .		0
46	High-speed optical modulation based on Pockels effect in strained silicon waveguides. , 2020, , .		1
47	Building blocks of silicon photonics. Semiconductors and Semimetals, 2019, 101, 1-41.	0.7	3
48	Coherencyâ€Broken Bragg Filters: Overcoming Onâ€Chip Rejection Limitations. Laser and Photonics Reviews, 2019, 13, 1800226.	8.7	36
49	On-chip Fourier-transform spectrometer based on spatial heterodyning tuned by thermo-optic effect. Scientific Reports, 2019, 9, 14633.	3.3	41
50	Broadband Mid-IR On-Chip Fourier-Transform Spectrometer. , 2019, , .		0
51	Ultra-Broadband Polarization-Independent Silicon Beam Splitter Based on Modal and Symmetry Engineering. , 2019, , .		0
52	Welcome to the IEEE Journal of Selected Topics in Quantum Electronics Issue on Metamaterial Photonics and Integration. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-3.	2.9	0
53	Sub-decibel silicon grating couplers based on L-shaped waveguides and engineered subwavelength metamaterials. Optics Express, 2019, 27, 26239.	3.4	38
54	Ultra-high on-chip optical gain in erbium-based hybrid slot waveguides. Nature Communications, 2019, 10, 432.	12.8	100

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55	Polarization- and wavelength-agnostic nanophotonic beam splitter. Scientific Reports, 2019, 9, 3604.	3.3	25
56	Recent Progress on Ge/SiGe Quantum Well Optical Modulators, Detectors, and Emitters for Optical Interconnects. Photonics, 2019, 6, 24.	2.0	26
57	Diffraction-less propagation beyond the sub-wavelength regime: a new type of nanophotonic waveguide. Scientific Reports, 2019, 9, 5347.	3.3	10
58	Broadband Mid-IR on-Chip Fourier-Transform Spectrometer. , 2019, , .		0
59	Silicon photonic spiral shape resonator applied to the optoelectronic oscillator. IET Optoelectronics, 2019, 13, 303-307.	3.3	3
60	Tailoring mode splitting and degeneracy in silicon triply resonant nanobeam cavities. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1267.	2.1	2
61	DAC-less PAM-4 generation in the O-band using a silicon Mach-Zehnder modulator. Optics Express, 2019, 27, 9740.	3.4	15
62	Ultra-wideband Ge-rich silicon germanium mid-infrared polarization rotator with mode hybridization flattening. Optics Express, 2019, 27, 9838.	3.4	14
63	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
64	Nonlinear third order silicon photonics enabled by dispersion and subwavelength engineering. , 2019, , .		1
65	Broadband integrated racetrack ring resonators for long-wave infrared photonics. Optics Letters, 2019, 44, 407.	3.3	25
66	Dual-polarization silicon nitride Bragg filters with low thermal sensitivity. Optics Letters, 2019, 44, 4578.	3.3	11
67	Engineering third-order optical nonlinearities in hybrid chalcogenide-on-silicon platform. Optics Letters, 2019, 44, 5009.	3.3	27
68	25â€‰â€‰Gbps low-voltage hetero-structured silicon-germanium waveguide pin photodetectors for monolithic on-chip nanophotonic architectures. Photonics Research, 2019, 7, 437.	7.0	54
69	High quality photon pair generation with on-chip filtering. , 2019, , .		0
70	Ge-rich graded-index Si1-xGex racetrack resonators for long-wave infrared photonics. , 2019, , .		0
71	High-performance waveguide photodetectors based on lateral Si/Ge/Si heterojunction. , 2019, , .		0
72	Towards optical amplification in complex functional oxides: exploring optical gain in erbium-doped yttria-stabilized zirconia waveguides. , 2019, , .		1

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73	Ge-rich SiGe-based wideband polarization insensitive photonic platform for mid-infrared free-space communications. , 2019, , .		0
74	Mid-infrared integrated wideband duel-polarization Fourier-transform spectrometer. , 2019, , .		0
75	Generation of O-band PAM-4 signal using a silicon modulator driven by two binary sequences. , 2019, , .		0
76	Integrated photonics put at full stretch: flexible and stretchable photonic devices enabled by optical and mechanical co-design. , 2019, , .		0
77	Enhanced performance of integrated silicon nanophotonic devices engineered by sub-wavelength grating structures. , 2019, , .		1
78	Optical gain evaluation on rare-earth doped Yttria-stabilized zirconia for hybrid integration on silicon photonics platforms. , 2019, , .		0
79	Hybrid Integrated Nanophotonic Silicon-based Structures. Communications in Physics, 2019, 29, 481.	0.0	0
80	Monolithically integrated stretchable photonics. Light: Science and Applications, 2018, 7, 17138-17138.	16.6	94
81	Integrated broadband mid-infrared polarization insensitive Fourier-Transform spectrometer. , 2018, , .		0
82	Germanium-based integrated photonics from near- to mid-infrared applications. Nanophotonics, 2018, 7, 1781-1793.	6.0	128
83	Generating Fano Resonances in a Single-Waveguide Silicon Nanobeam Cavity for Efficient Electro-Optical Modulation. ACS Photonics, 2018, 5, 4229-4237.	6.6	20
84	Fast linear electro-optic effect in a centrosymmetric semiconductor. Communications Physics, 2018, 1, .	5.3	28
85	Wideband Ge-Rich SiGe Polarization-Insensitive Waveguides for Mid-Infrared Free-Space Communications. Applied Sciences (Switzerland), 2018, 8, 1154.	2.5	10
86	Silicon Modulators for the Generation of Advanced Modulation Formats. , 2018, , .		0
87	Mid-IR integrated cavity based on Ge-rich graded SiGe waveguides with lateral Bragg grating. , 2018, , .		1
88	Broadband Polarization Beam Splitter on a Silicon Nitride Platform for O-Band Operation. IEEE Photonics Technology Letters, 2018, 30, 1679-1682.	2.5	28
89	QPSK Modulation in the O-Band Using a Single Dual-Drive Machâ€“Zehnder Silicon Modulator. Journal of Lightwave Technology, 2018, 36, 3935-3940.	4.6	8
90	Tailoring carbon nanotubes optical properties through chirality-wise silicon ring resonators. Scientific Reports, 2018, 8, 11252.	3.3	13

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91	Graded SiGe waveguides with broadband low-loss propagation in the mid infrared. Optics Express, 2018, 26, 870.	3.4	93
92	Low loss poly-silicon for high performance capacitive silicon modulators. Optics Express, 2018, 26, 5983.	3.4	9
93	Subwavelength engineering and asymmetry: two efficient tools for sub-nanometer-bandwidth silicon Bragg filters. Optics Letters, 2018, 43, 3208.	3.3	30
94	Mid-infrared sensing between 52 and 66 Âµm wavelengths using Ge-rich SiGe waveguides [Invited]. Optical Materials Express, 2018, 8, 1305.	3.0	43
95	Mode selection and dispersion engineering in Bragg-like slot photonic crystal waveguides for hybrid lightâ€“matter interactions. Photonics Research, 2018, 6, 54.	7.0	2
96	Nonlinear optical properties of integrated GeSbS chalcogenide waveguides. Photonics Research, 2018, 6, B37.	7.0	39
97	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
98	High-quality crystalline yttria-stabilized-zirconia thin layer for photonic applications. Physical Review Materials, 2018, 2, .	2.4	12
99	Integrated SiN on SOI dual photonic devices for advanced datacom solutions. , 2018, , .		14
100	Stretchable Integrated Microphotonics. , 2018, , .		1
101	On-chip Bragg grating waveguides and Fabry-Perot resonators for long-wave infrared operation up to 84 Âµm. Optics Express, 2018, 26, 34366.	3.4	16
102	Integrated broadband dual-polarization Ge-rich SiGe mid-infrared Fourier-transform spectrometer. Optics Letters, 2018, 43, 5021.	3.3	32
103	Nanobeam cavity engineering for the realization of active functions in integrated Si photonics. , 2018, , .		0
104	O-band Energy-efficient Broadcast-friendly Interconnection Scheme with SiPho Mach-Zehnder Modulator (MZM) & Arrayed Waveguide Grating Router (AWGR). , 2018, , .		14
105	Ge-rich SiGe photonic-integrated circuits for mid-IR spectroscopy. , 2018, , .		0
106	A compact Ge-rich graded-index SiGe platform with broadband low-loss propagation in the mid infrared. , 2018, , .		0
107	Ge-rich graded-index Si1-xGex devices for Mid-IR integrated photonics. , 2018, , .		0
108	Advanced modulation format using silicon modulators in the O-band. , 2018, , .		0

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109	Ge-rich SiGe waveguides for supercontinuum generation in the mid-IR. , 2018, , .		0
110	Silicon coupled cavities as a flexible platform for integrated nonlinear photonics. , 2018, , .		0
111	Silicon photonic micro-ring resonator dedicated to an optoelectronic oscillator loop. , 2018, , .		0
112	Low loss grating coupled optical interfaces for large volume fabrication with deep ultraviolet optical lithography. , 2018, , .		0
113	Mode converters based on periodically perturbed waveguides for mode division multiplexing. , 2018, , .		1
114	7.5 Âµm wavelength fiber-chip grating couplers for Ge-rich SiGe photonics integrated circuits. , 2018, , .		1
115	Vectorial Near-Field Imaging of Silicon Heterostructure Cavities in Air-Slot Waveguides. IEEE Photonics Technology Letters, 2017, 29, 571-574.	2.5	0
116	Ge-rich SiGe waveguides for mid-infrared photonics. Proceedings of SPIE, 2017, , .	0.8	1
117	Polarization insensitive Ge-rich silicon germanium waveguides for optical interconnects on silicon. , 2017, , .		0
118	Strain induced by functional oxides for silicon photonics applications. Proceedings of SPIE, 2017, , .	0.8	0
119	Simplified model enabling optimization of silicon modulators. , 2017, , .		1
120	Silicon nitride waveguide-integrated Ge/SiGe quantum wells optical modulator. Journal of Physics: Conference Series, 2017, 901, 012152.	0.4	3
121	Comprehensive description of the electro-optic effects in strained silicon waveguides. Journal of Applied Physics, 2017, 122, 153105.	2.5	10
122	Integration of semiconductor carbon nanotubes for photonic applications in silicon photonics. , 2017, , .		0
123	Polarizationâ€Sensitive Singleâ€Wall Carbon Nanotubes Allâ€inâ€One Photodetecting and Emitting Device Working at 1.55 Âµm. Advanced Functional Materials, 2017, 27, 1702341.	14.9	17
124	Nonlinear Properties of Ge-rich Si1â^'xGex Materials with Different Ge Concentrations. Scientific Reports, 2017, 7, 14692.	3.3	28
125	Single walled carbon nanotubes emission coupled with a silicon slot-ring resonator. Journal of Luminescence, 2017, 191, 126-130.	3.1	7
126	Integration of carbon nanotubes on silicon photonics resonators. , 2017, , .		0

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127	Spatially modulated intensity occupation in nanobeam cavities for robust light matter interaction with nanomaterials. , 2017, , .		0
128	GVD control of low loss slot photonic crystal waveguides for hybrid silicon photonics. , 2017, , .		0
129	Nonlinear properties of Ge-rich SiGe waveguides. , 2017, , .		0
130	Broadband mid infrared photonic integrated components using a Ge-rich SiGe platform. , 2017, , .		0
131	High-performance sub-wavelength engineered silicon Bragg-rejection filters. , 2017, , .		0
132	Strained silicon photonics for Pockels effect based modulation. , 2017, , .		0
133	Sub-wavelength silicon grating metamaterial ring resonators. , 2017, , .		2
134	Linear and third order nonlinear optical properties of GeSbS chalcogenide integrated waveguides. , 2017, , .		0
135	Third order nonlinear optical properties of Ge-Rich SiGe waveguides. , 2017, , .		0
136	Design and integration of an O-band silicon nitride AWG for CWDM applications. , 2017, , .		8
137	Bragg grating filter for suspended silicon waveguides. , 2017, , .		0
138	25 Gbit/s O-Band push-pull Mach-Zehnder silicon modulator for datacom applications. , 2017, , .		0
139	Efficient excitation of silicon photonic cavity modes from carbon nanotube photoluminescence. , 2017, , .		1
140	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
141	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
142	Low voltage 25Gbps silicon Mach-Zehnder modulator in the O-band. Optics Express, 2017, 25, 11217.	3.4	33
143	Integrated waveguide PIN photodiodes exploiting lateral Si/Ge/Si heterojunction. Optics Express, 2017, 25, 19487.	3.4	84
144	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

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145	Ultra-wideband Ge-rich silicon germanium integrated Machâ€“Zehnder interferometer for mid-infrared spectroscopy. Optics Letters, 2017, 42, 3482.	3.3	38
146	Extrinsic losses in silicon slot photonic crystal waveguides: influence of the fabrication process. , 2017, , .		0
147	Design of mid-IR integrated cavity based on Ge-rich graded SiGe waveguides. , 2017, , .		0
148	Electro-Refraction in Standard and Symmetrically Coupled Ge/SiGe Quantum Wells. Nanoscience and Nanotechnology Letters, 2017, 9, 1123-1127.	0.4	0
149	Narrow-linewidth carbon nanotube emission in silicon hollow-core photonic crystal cavity. Optics Letters, 2017, 42, 2228.	3.3	11
150	Silicon nanobeam cavity for ultra-localized light-matter interaction. Optics Letters, 2017, 42, 3323.	3.3	8
151	Low-loss Ge-rich Si_02Ge_08 waveguides for mid-infrared photonics. Optics Letters, 2017, 42, 105.	3.3	56
152	Optical pump-rejection filter based on silicon sub-wavelength engineered photonic structures. Optics Letters, 2017, 42, 1468.	3.3	45
153	Third Order Nonlinear Properties of GeSbS Chalcogenide Waveguides. , 2017, , .		0
154	Germanium-on-silicon mid-infrared grating couplers with low-reflectivity inverse taper excitation. Optics Letters, 2016, 41, 4324.	3.3	43
155	Simplified modeling and optimization of silicon modulators based on free-carrier plasma dispersion effect. Optics Express, 2016, 24, 26332.	3.4	33
156	High-quality photonic entanglement for wavelength-multiplexed quantum communication based on a silicon chip. Optics Express, 2016, 24, 28731.	3.4	59
157	Hybrid silicon slotted photonic crystal waveguides: how does third order nonlinear performance scale with slow light?. Photonics Research, 2016, 4, 257.	7.0	16
158	Near-field imaging of single walled carbon nanotubes emitting in the telecom wavelength range. Journal of Applied Physics, 2016, 120, 123110.	2.5	5
159	Design of integrated capacitive modulators for 56Gbps operation. , 2016, , .		4
160	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
161	Coupling of semiconductor carbon nanotubes emission with silicon photonic micro ring resonators. , 2016, , .		0
162	Ge-rich silicon germanium as a new platform for optical interconnects on silicon. , 2016, , .		0

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163	Silicon modulator based on interleaved capacitors in subwavelength grating waveguides. , 2016, , .		5
164	Silicon germanium on graded buffer as a new platform for optical interconnects on silicon. Proceedings of SPIE, 2016, , .	0.8	0
165	Electro-absorption and electro-refraction in Ge/SiGe coupled quantum wells. , 2016, , .		0
166	Integration of Carbon Nanotubes in Silicon Strip and Slot Waveguide Micro-Ring Resonators. IEEE Nanotechnology Magazine, 2016, 15, 583-589.	2.0	10
167	Slotted silicon photonic structures for hybrid on-chip integration. , 2016, , .		0
168	Experimental Investigation of Top Cladding on Properties of Silicon Slotted Photonic Crystal Waveguides. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 305-311.	2.9	4
169	Single-etch subwavelength engineered fiber-chip grating couplers for 13 Âµm datacom wavelength band. Optics Express, 2016, 24, 12893.	3.4	38
170	Broadband single mode SiGe graded waveguides with tight mode confinement for mid-infrared photonics. , 2016, , .		0
171	Bond orbital description of the strain-induced second-order optical susceptibility in silicon. Physical Review B, 2016, 93, .	3.2	16
172	Experimental GVD engineering in slow light slot photonic crystal waveguides. Scientific Reports, 2016, 6, 26956.	3.3	40
173	Roadmap on silicon photonics. Journal of Optics (United Kingdom), 2016, 18, 073003.	2.2	915
174	DAPHNE silicon photonics technological platform for research and development on WDM applications. , 2016, , .		8
175	Highly sensitive refractive index sensing by fast detuning the critical coupling condition of slot waveguide ring resonators. Optics Letters, 2016, 41, 532.	3.3	46
176	Monolithic Integrated Slot-Blocker for High Datarate Coherent Optical Slot Switched Networks. Journal of Lightwave Technology, 2016, 34, 1807-1814.	4.6	7
177	Monolithic High-Index-Contrast Stretchable Photonics. , 2016, , .		1
178	Enhanced carbon nanotubes light emission integrated with photonic SOI ring resonators. , 2016, , .		1
179	Tailoring the GVD of hollow core slotted silicon photonic crystal waveguides for hybrid integration of soft materials. , 2016, , .		0
180	Development of silicon nitride arrayed waveguide grating by physical vapor deposition at room temperature. , 2015, , .		2

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181	Sharp bends and Mach-Zehnder interferometer based on Ge-rich-SiGe waveguides on SiGe graded buffer. Optics Express, 2015, 23, 30821.	3.4	15
182	Giant electro-optic effect in Ge/SiGe coupled quantum wells. Scientific Reports, 2015, 5, 15398.	3.3	23
183	Polymerâ€Đecorated Carbon Nanotubes as Transducers for Labelâ€Free Photonic Biosensors. Chemistry - A European Journal, 2015, 21, 18649-18653.	3.3	5
184	SOI slot photonic crystal cavities on SiO2 from Î» = 1.3 Âµm to 1.6 Âµm. , 2015, , .		0
185	Comparison among Silicon modulators based on Free-Carrier Plasma Dispersion Effect. , 2015, , .		1
186	Optimization approaches to achieve high-Q silicon slot waveguide ring resonators. , 2015, , .		1
187	Demonstration of integrated polarization control with a 40â€‰â€‰dB range in extinction ratio. Optica, 2015, 2, 1019.	9.3	33
188	Ge/SiGe multiple quantum wells for photonic integrated circuits on silicon. , 2015, , .		0
189	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
190	Near-Field Fano-Imaging of TE and TM Modes in Silicon Microrings. ACS Photonics, 2015, 2, 1712-1718.	6.6	6
191	Analysis of silicon-on-insulator slot waveguide ring resonators targeting high Q-factors. Optics Letters, 2015, 40, 5566.	3.3	28
192	Silicon chips lighten up. Nature, 2015, 528, 483-484.	27.8	21
193	Investigation of loss mechanism of SOI slot waveguide ring resonators. , 2015, , .		0
194	Packaging optimization of an electro-optical modulator for high data-rate communications. , 2015, , .		0
195	Slot waveguide couplers optimization: A route to achieve high Q-factor slot waveguide ring resonators. , 2015, , .		0
196	Enhanced light emission from carbon nanotubes integrated in silicon micro-resonator. Nanotechnology, 2015, 26, 345201.	2.6	26
197	A TIA for optical networks-on-chip in 65nm CMOS. , 2015, , .		0
198	Effect of Radiation on a Machâ€“Zehnder Interferometer Silicon Modulator for HL-LHC Data Transmission Applications. IEEE Transactions on Nuclear Science, 2015, 62, 329-335.	2.0	37

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199	High-directionality fiber-chip grating coupler with interleaved trenches and subwavelength index-matching structure. Optics Letters, 2015, 40, 4190.	3.3	89
200	SOI Slotted Photonic Crystal Cavities Spanning From 1.3 to <inline-formula> <tex-math notation="LaTeX">$1.6~mu ext{m}$ </tex-math></inline-formula> With <inline-formula> <tex-math notation="LaTeX">Q/V </tex-math></inline-formula> Factors Above 800 000. IEEE Photonics Technology Letters, 2015, 27, 2138-2141.	2.5	10
201	Optical Interconnects based on Ge/SiGe Multiple Quantum Well Structures. , 2015, , .		0
202	Carbon nanotube photonics: using microring resonators for tailoring semiconducting carbon nanotubes photoluminescence. Journal of Nanophotonics, 2015, 10, 012513.	1.0	1
203	Carbon nanotube photonics: using microring resonators for tailoring semiconducting carbon nanotubes photoluminescence. Journal of Nanophotonics, 2015, 10, 102599.	1.0	0
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