

Roel Baets

List of Publications by Year in descending order

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163
papers

8,961
citations

57758

44
h-index

42399

92
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164
all docs

164
docs citations

164
times ranked

7501
citing authors

#	ARTICLE	IF	CITATIONS
1	Silicon-on-Insulator microring resonator for sensitive and label-free biosensing. Optics Express, 2007, 15, 7610.	3.4	748
2	What is " and what is not " an optical isolator. Nature Photonics, 2013, 7, 579-582.	31.4	712
3	Compact efficient broadband grating coupler for silicon-on-insulator waveguides. Optics Letters, 2004, 29, 2749.	3.3	559
4	Silicon-on-Insulator Spectral Filters Fabricated With CMOS Technology. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 33-44.	2.9	418
5	An ultra-small, low-power, all-optical flip-flop memory on a silicon chip. Nature Photonics, 2010, 4, 182-187.	31.4	369
6	Label-Free Biosensing With a Slot-Waveguide-Based Ring Resonator in Silicon on Insulator. IEEE Photonics Journal, 2009, 1, 197-204.	2.0	353
7	Interaction between light and highly confined hypersound in a silicon photonic nanowire. Nature Photonics, 2015, 9, 199-203.	31.4	283
8	Hybrid Integrated Platforms for Silicon Photonics. Materials, 2010, 3, 1782-1802.	2.9	242
9	Expanding the Silicon Photonics Portfolio With Silicon Nitride Photonic Integrated Circuits. Journal of Lightwave Technology, 2017, 35, 639-649.	4.6	232
10	An octave-spanning mid-infrared frequency comb generated in a silicon nanophotonic wire waveguide. Nature Communications, 2015, 6, 6310.	12.8	191
11	Silicon and silicon nitride photonic circuits for spectroscopic sensing on-a-chip [Invited]. Photonics Research, 2015, 3, B47.	7.0	173
12	Open-Access Silicon Photonics: Current Status and Emerging Initiatives. Proceedings of the IEEE, 2018, 106, 2313-2330.	21.3	164
13	Taking silicon photonics modulators to a higher performance level: state-of-the-art and a review of new technologies. Advanced Photonics, 2021, 3, .	11.8	151
14	Novel Light Source Integration Approaches for Silicon Photonics. Laser and Photonics Reviews, 2017, 11, 1700063.	8.7	143
15	An integrated optic ethanol vapor sensor based on a silicon-on-insulator microring resonator coated with a porous ZnO film. Optics Express, 2010, 18, 11859.	3.4	142
16	Bridging the mid-infrared-to-telecom gap with silicon nanophotonic spectral translation. Nature Photonics, 2012, 6, 667-671.	31.4	141
17	Tunable optical forces between nanophotonic waveguides. Nature Nanotechnology, 2009, 4, 510-513.	31.5	137
18	Controlling phonons and photons at the wavelength scale: integrated photonics meets integrated phononics. Optica, 2019, 6, 213.	9.3	125

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19	Photonic Integrated Circuit-Based FMCW Coherent LiDAR. <i>Journal of Lightwave Technology</i> , 2018, 36, 4640-4645.	4.6	120
20	Multiplexed Antibody Detection With an Array of Silicon-on-Insulator Microring Resonators. <i>IEEE Photonics Journal</i> , 2009, 1, 225-235.	2.0	119
21	Evanescent excitation and collection of spontaneous Raman spectra using silicon nitride nanophotonic waveguides. <i>Optics Letters</i> , 2014, 39, 4025.	3.3	117
22	III-V-on-Si photonic integrated circuits realized using micro-transfer-printing. <i>APL Photonics</i> , 2019, 4, .	5.7	108
23	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
24	A Compact SOI-Integrated Multiwavelength Laser Source Based on Cascaded InP Microdisks. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 1345-1347.	2.5	103
25	III-V-on-Silicon Photonic Devices for Optical Communication and Sensing. <i>Photonics</i> , 2015, 2, 969-1004.	2.0	103
26	Two-Dimensional Dispersive Off-Chip Beam Scanner Fabricated on Silicon-On-Insulator. <i>IEEE Photonics Technology Letters</i> , 2011, 23, 1270-1272.	2.5	100
27	Surface Enhanced Raman Spectroscopy Using a Single Mode Nanophotonic-Plasmonic Platform. <i>ACS Photonics</i> , 2016, 3, 102-108.	6.6	95
28	Open-Access Silicon Photonics Platforms in Europe. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019, 25, 1-18.	2.9	82
29	Nonlinear absorption and refraction in crystalline silicon in the mid-infrared. <i>Laser and Photonics Reviews</i> , 2013, 7, 1054-1064.	8.7	77
30	Photonic integrated Mach-Zehnder interferometer with an on-chip reference arm for optical coherence tomography. <i>Biomedical Optics Express</i> , 2014, 5, 1050.	2.9	75
31	Nanophotonic Waveguide Enhanced Raman Spectroscopy of Biological Submonolayers. <i>ACS Photonics</i> , 2016, 3, 2141-2149.	6.6	70
32	Selective and reversible ammonia gas detection with nanoporous film functionalized silicon photonic micro-ring resonator. <i>Optics Express</i> , 2012, 20, 11855.	3.4	69
33	Silicon-based heterogeneous photonic integrated circuits for the mid-infrared. <i>Optical Materials Express</i> , 2013, 3, 1523.	3.0	65
34	Transfer-printing-based integration of single-mode waveguide-coupled III-V-on-silicon broadband light emitters. <i>Optics Express</i> , 2016, 24, 13754.	3.4	64
35	III-V-on-Silicon Photonic Integrated Circuits for Spectroscopic Sensing in the 4-14 μ m Wavelength Range. <i>Sensors</i> , 2017, 17, 1788.	3.8	60
36	Net on-chip Brillouin gain based on suspended silicon nanowires. <i>New Journal of Physics</i> , 2015, 17, 115005.	2.9	59

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37	CMOS-compatible broadband co-propagative stationary Fourier transform spectrometer integrated on a silicon nitride photonics platform. <i>Optics Express</i> , 2017, 25, A409.	3.4	59
38	Flexible metal grating based optical fiber probe for photonic integrated circuits. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	57
39	Efficiency of evanescent excitation and collection of spontaneous Raman scattering near high index contrast channel waveguides. <i>Optics Express</i> , 2015, 23, 27391.	3.4	54
40	Bright and dark plasmon resonances of nanoplasmonic antennas evanescently coupled with a silicon nitride waveguide. <i>Optics Express</i> , 2015, 23, 3088.	3.4	54
41	Unifying Brillouin scattering and cavity optomechanics. <i>Physical Review A</i> , 2016, 93, .	2.5	50
42	A Noncontact Approach for the Evaluation of Large Artery Stiffness: A Preliminary Study. <i>American Journal of Hypertension</i> , 2008, 21, 1280-1283.	2.0	47
43	Widely tunable 23- μm III-V-on-silicon Vernier lasers for broadband spectroscopic sensing. <i>Photonics Research</i> , 2018, 6, 858.	7.0	47
44	On-Chip Arrayed Waveguide Grating Interrogated Silicon-on-Insulator Microring Resonator-Based Gas Sensor. <i>IEEE Photonics Technology Letters</i> , 2011, 23, 1505-1507.	2.5	46
45	One-Dimensional Off-Chip Beam Steering and Shaping Using Optical Phased Arrays on Silicon-on-Insulator. <i>Journal of Lightwave Technology</i> , 2011, 29, 3500-3505.	4.6	46
46	Near-Infrared Grating Couplers for Silicon Nitride Photonic Wires. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 1700-1703.	2.5	46
47	On-chip surface-enhanced Raman spectroscopy using nanosphere-lithography patterned antennas on silicon nitride waveguides. <i>Optics Express</i> , 2017, 25, 12926.	3.4	45
48	Metal Grating Patterning on Fiber Facets by UV-Based Nano Imprint and Transfer Lithography Using Optical Alignment. <i>Journal of Lightwave Technology</i> , 2009, 27, 1415-1420.	4.6	41
49	Design and Optimization of Electrically Injected InP-Based Microdisk Lasers Integrated on and Coupled to a SOI Waveguide Circuit. <i>Journal of Lightwave Technology</i> , 2008, 26, 52-63.	4.6	40
50	A Label-Free Optical Biosensor Built on a Low-Cost Polymer Platform. <i>IEEE Photonics Journal</i> , 2012, 4, 920-930.	2.0	38
51	High index contrast photonic platforms for on-chip Raman spectroscopy. <i>Optics Express</i> , 2019, 27, 23067.	3.4	37
52	23 μm range InP-based type-II quantum well Fabry-Perot lasers heterogeneously integrated on a silicon photonic integrated circuit. <i>Optics Express</i> , 2016, 24, 21081.	3.4	36
53	On-chip laser Doppler vibrometer for arterial pulse wave velocity measurement. <i>Biomedical Optics Express</i> , 2013, 4, 1229.	2.9	35
54	Analysis of enhanced stimulated Brillouin scattering in silicon slot waveguides. <i>Optics Letters</i> , 2014, 39, 1242.	3.3	35

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55	2 μm wavelength range InP-based type-II quantum well photodiodes heterogeneously integrated on silicon photonic integrated circuits. <i>Optics Express</i> , 2015, 23, 26834.	3.4	35
56	ALD assisted nanoplasmonic slot waveguide for on-chip enhanced Raman spectroscopy. <i>APL Photonics</i> , 2018, 3, .	5.7	35
57	III-V-on-silicon 2- μm -wavelength-range wavelength demultiplexers with heterogeneously integrated InP-based type-II photodetectors. <i>Optics Express</i> , 2016, 24, 8480.	3.4	34
58	Silicon Nitride Background in Nanophotonic Waveguide Enhanced Raman Spectroscopy. <i>Materials</i> , 2017, 10, 140.	2.9	34
59	Six-beam homodyne laser Doppler vibrometry based on silicon photonics technology. <i>Optics Express</i> , 2018, 26, 3638.	3.4	34
60	Ultra-sensitive refractive index gas sensor with functionalized silicon nitride photonic circuits. <i>APL Photonics</i> , 2020, 5, 081301.	5.7	33
61	High-power single transverse and polarization mode VCSEL for silicon photonics integration. <i>Optics Express</i> , 2019, 27, 18892.	3.4	33
62	Stimulated Raman spectroscopy of analytes evanescently probed by a silicon nitride photonic integrated waveguide. <i>Optics Letters</i> , 2018, 43, 1403.	3.3	32
63	Proposal for an All-Optical Flip-Flop Using a Single Distributed Feedback Laser Diode. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 18-20.	2.5	31
64	Silicon-integrated short-wavelength hybrid-cavity VCSEL. <i>Optics Express</i> , 2015, 23, 33634.	3.4	30
65	Single mode waveguide platform for spontaneous and surface-enhanced on-chip Raman spectroscopy. <i>Interface Focus</i> , 2016, 6, 20160015.	3.0	30
66	Impact of fundamental thermodynamic fluctuations on light propagating in photonic waveguides made of amorphous materials. <i>Optica</i> , 2018, 5, 328.	9.3	30
67	Low Loss CMOS-Compatible PECVD Silicon Nitride Waveguides and Grating Couplers for Blue Light Optogenetic Applications. <i>IEEE Photonics Journal</i> , 2016, 8, 1-11.	2.0	29
68	Broad wavelength coverage 23- μm III-V-on-silicon DFB laser array. <i>Optica</i> , 2017, 4, 972.	9.3	29
69	Homodyne laser Doppler vibrometer on silicon-on-insulator with integrated 90 degree optical hybrids. <i>Optics Express</i> , 2013, 21, 13342.	3.4	28
70	High extinction ratio on-chip pump-rejection filter based on cascaded grating-assisted contra-directional couplers in silicon nitride rib waveguides. <i>Optics Letters</i> , 2019, 44, 2310.	3.3	27
71	Athermal arrayed waveguide gratings in silicon-on-insulator by overlaying a polymer cladding on narrowed arrayed waveguides. <i>Applied Optics</i> , 2012, 51, 1251.	1.8	26
72	On-Chip Non-Dispersive Infrared CO2 Sensor Based On an Integrating Cylinder. <i>Sensors</i> , 2019, 19, 4260.	3.8	25

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73	PLAT4M: Progressing Silicon Photonics in Europe. Photonics, 2016, 3, 1.	2.0	24
74	On the determination of $\Gamma(2)$ in thin films: a comparison of one-beam second-harmonic generation measurement methodologies. Scientific Reports, 2017, 7, 44581.	3.3	23
75	Transfer-print integration of GaAs p-i-n photodiodes onto silicon nitride waveguides for near-infrared applications. Optics Express, 2020, 28, 21275.	3.4	23
76	Integrated silicon nitride electro-optic modulators with atomic layer deposited overlays. Optics Letters, 2019, 44, 1112.	3.3	23
77	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
78	Waveguide excitation and collection of surface-enhanced Raman scattering from a single plasmonic antenna. Nanophotonics, 2018, 7, 1299-1306.	6.0	22
79	Heterogeneously integrated III-V-on-silicon 2.3x \times 1.4 μ m distributed feedback lasers based on a type-II active region. Applied Physics Letters, 2016, 109, .	3.3	21
80	A Miniaturised, Fully Integrated NDIR CO2 Sensor On-Chip. Sensors, 2021, 21, 5347.	3.8	21
81	Focused-ion-beam fabricated vertical fiber couplers on silicon-on-insulator waveguides. Applied Physics Letters, 2006, 89, 141102.	3.3	20
82	Gold nanodome SERS platform for label-free detection of protease activity. Faraday Discussions, 2017, 205, 345-361.	3.2	20
83	Comparison of Free-Space and Waveguide-Based SERS Platforms. Nanomaterials, 2019, 9, 1401.	4.1	20
84	Gold nanodome-patterned microchips for intracellular surface-enhanced Raman spectroscopy. Analyst, The, 2015, 140, 8080-8087.	3.5	19
85	Porous multi-junction thin-film silicon solar cells for scalable solar water splitting. Solar Energy Materials and Solar Cells, 2018, 182, 196-203.	6.2	18
86	40-Gb/s All-Optical Packet Switching With a Distributed-Feedback Laser as All-Optical Flip-Flop. IEEE Photonics Technology Letters, 2009, 21, 703-705.	2.5	17
87	3D-printed optical probes for wafer-level testing of photonic integrated circuits. Optics Express, 2020, 28, 37996.	3.4	17
88	Multiplex volatile organic compound Raman sensing with nanophotonic slot waveguides functionalized with a mesoporous enrichment layer. Optics Letters, 2020, 45, 447.	3.3	17
89	All-Optical Flip-Flop Operation in a Standard Tunable DBR Laser Diode. IEEE Photonics Technology Letters, 2009, 21, 1873-1875.	2.5	16
90	All-Optical 2R Regeneration Using the Hysteresis in a Distributed Feedback Laser Diode. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1434-1440.	2.9	16

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91	A polymer-based surface grating coupler with an embedded Si ₃ N ₄ layer. Journal of Applied Physics, 2012, 111, .	2.5	16
92	SERS Detection via Individual Bowtie Nanoantennas Integrated in Si ₃ N ₄ Waveguides. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-6.	2.9	15
93	Measurement of small molecule diffusion with an optofluidic silicon chip. Lab on A Chip, 2013, 13, 4392.	6.0	14
94	Beam steering for wireless optical links based on an optical phased array in silicon. Annales Des Telecommunications/Annals of Telecommunications, 2013, 68, 57-62.	2.5	13
95	Silicon photonics-based laser Doppler vibrometer array for carotid-femoral pulse wave velocity (PWV) measurement. Biomedical Optics Express, 2020, 11, 3913.	2.9	13
96	Ultralow-power all-optical wavelength conversion in a silicon-on-insulator waveguide based on a heterogeneously integrated III-V microdisk laser. Applied Physics Letters, 2008, 93, 061107.	3.3	12
97	Compact lens-assisted focusing tapers fabricated on silicon-on-insulator. , 2011, , .		12
98	Plasma-Enhanced Atomic Layer Deposition of Nanostructured Gold Near Room Temperature. ACS Applied Materials & Interfaces, 2019, 11, 37229-37238.	8.0	12
99	Miniaturization of Laser Doppler Vibrometersâ€™A Review. Sensors, 2022, 22, 4735.	3.8	12
100	Adaptive spatial resolution: application to surface plasmon waveguide modes. Optical and Quantum Electronics, 2007, 38, 857-867.	3.3	11
101	CMOS-compatible silicon nitride spectrometers for lab-on-a-chip spectral sensing. Proceedings of SPIE, 2016, , .	0.8	11
102	Iodine enhanced focused-ion-beam etching of silicon for photonic applications. Journal of Applied Physics, 2007, 102, .	2.5	10
103	Low-power inelastic light scattering at small detunings in silicon wire waveguides at telecom wavelengths. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1977.	2.1	10
104	Mitigation of speckle noise in laser Doppler vibrometry by using a scanning average method. Optics Letters, 2019, 44, 1860.	3.3	10
105	Nonvolatile Liquid Controlled Adiabatic Silicon Photonics Switch. Journal of Lightwave Technology, 2017, 35, 2948-2954.	4.6	9
106	Thermal Brillouin noise observed in silicon optomechanical waveguide. Journal of Optics (United) Tj ETQq0 0 0 rgBT, Overlock, 10 Tf 50 1	2.2	9
107	PIXAPP Photonics Packaging Pilot Line â€™ Development of a Silicon Photonic Optical Transceiver With Pluggable Fiber Connectivity. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-11.	2.9	9
108	NEMS-based optical phase modulator fabricated on Silicon-On-Insulator. , 2011, , .		8

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109	Vertically coupled microring resonators using one epitaxial growth step and single-side lithography. Optics Express, 2015, 23, 5317.	3.4	8
110	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
111	High speed phase modulators for silicon photonic integrated circuits: a role for lithium niobate?. Advanced Photonics, 2019, 1, 1.	11.8	8
112	Waveguide-based surface-enhanced Raman spectroscopy detection of protease activity using non-natural aromatic amino acids. Biomedical Optics Express, 2020, 11, 4800.	2.9	8
113	Mitigation of photon background in nanoplasmonic all-on-chip Raman sensors. Optics Express, 2020, 28, 33564.	3.4	8
114	Ultra-sensitive slot-waveguide-enhanced Raman spectroscopy for aqueous solutions of non-polar compounds using a functionalized silicon nitride photonic integrated circuit. Optics Letters, 2021, 46, 1153.	3.3	7
115	Study of a Magneto-optic Contact for an Amplifying Waveguide Optical Isolator. IEEE Photonics Technology Letters, 2007, 19, 659-661.	2.5	6
116	Amplifying Waveguide Optical Isolator With an Integrated Electromagnet. IEEE Photonics Technology Letters, 2007, 19, 1949-1951.	2.5	6
117	Optical frequency shifter on SOI using thermo-optic serrodyne modulation. , 2010, , .		6
118	Hybrid integration of laser source on silicon photonic integrated circuit for low-cost interferometry medical device. Proceedings of SPIE, 2017, , .	0.8	6
119	Surface-Enhanced Raman Spectroscopy Based on Plasmonic Slot Waveguides With Free-Space Oblique Illumination. IEEE Journal of Quantum Electronics, 2020, 56, 1-8.	1.9	5
120	Athermal SOI ring resonators by overlaying a polymer cladding on narrowed waveguides. , 2009, , .		4
121	Investigation of evanescent coupling between SOI waveguides and heterogeneously-integrated III-V pin photodetectors. , 2009, , .		4
122	Building a sustainable future for silicon photonics. , 2011, , .		4
123	An ultra-small silicon laser. Nature, 2013, 498, 447-448.	27.8	4
124	Nonlinear signal errors in homodyne laser Doppler vibrometry induced by strong second-order ghost reflections and their mitigation. Optics Express, 2021, 29, 8283.	3.4	4
125	Template Matching and Matrix Profile for Signal Quality Assessment of Carotid and Femoral Laser Doppler Vibrometer Signals. Frontiers in Physiology, 2021, 12, 775052.	2.8	4
126	Efficient, Broadband and Compact Metal Grating Couplers for Silicon-on-Insulator Waveguides. , 2007, , .		3

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127	Special Issue of Silicon Photonics [Scanning the Issue]. Proceedings of the IEEE, 2018, 106, 2098-2100.	21.3	3
128	Angled Flip-Chip Integration of VCSELs on Silicon Photonic Integrated Circuits. Journal of Lightwave Technology, 2022, 40, 5190-5200.	4.6	3
129	Experimental demonstration of all-optical flip-flop operation with a single distributed feedback laser diode. , 2008, , .		2
130	Fabrication of nanophotonic circuit components by thermal nano imprint lithography. , 2008, , .		2
131	Silica-based optical interposer for Si photonics. , 2009, , .		2
132	Silicon-on-insulator microring resonator for ultra dense WDM applications. , 2009, , .		2
133	Two-dimensional dispersive beam steerer fabricated on silicon-on-insulator. , 2010, , .		2
134	Silicon carrier-depletion-based Mach-Zehnder and ring modulators with different doping patterns for telecommunication and optical interconnect. , 2012, , .		2
135	Efficient Light Collection and Direction-of-Arrival Estimation Using a Photonic Integrated Circuit. IEEE Photonics Technology Letters, 2012, 24, 933-935.	2.5	2
136	Extreme spectral transmission fluctuations in silicon nanowires induced by backscattering. , 2016, , .		2
137	ALD Pt nanoparticles and thin-film coatings enhancing the stability and performance of silicon photocathodes for solar water splitting. Sustainable Energy and Fuels, 2021, 5, 3115-3123.	4.9	2
138	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
139	Pilot Testing of the "Turbidimeter", a Simple, Universal Reader Intended to Complement and Enhance Bacterial Growth Detection in Manual Blood Culture Systems in Low-Resource Settings. Diagnostics, 2022, 12, 615.	2.6	2
140	UV-based Nano Imprint Fabrication of Gold Grating Couplers on Silicon-on-Insulator. LEOS Summer Topical Meeting, 2007, , .	0.0	1
141	All-optical wavelength converter with InP micro-disk laser integrated on SOI. , 2008, , .		1
142	Chip-to-chip optical wireless link feasibility using optical phased arrays on silicon-on-insulator. , 2010, , .		1
143	Widely tunable silicon mid-infrared optical parametric oscillator. , 2011, , .		1
144	Widely tunable silicon-on-insulator ring resonators with a liquid crystal cladding. , 2011, , .		1

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145	Nonlinear silicon nanophotonics for mid-infrared applications. , 2011, , .		1
146	Optical Interconnect Technologies based on Silicon Photonics. Materials Research Society Symposia Proceedings, 2011, 1335, 113.	0.1	1
147	Light collection from scattering media in a silicon photonics integrated circuit. , 2011, , .		1
148	Observation of 4.4 dB Brillouin gain in a silicon photonic wire. , 2014, , .		1
149	Vertically coupled InP/InGaAsP microring lasers using a single epitaxial growth and single-side lithography. Journal of Lightwave Technology, 2020, , 1-1.	4.6	1
150	Gold-induced photothermal background in on-chip surface enhanced stimulated Raman spectroscopy. Optics Letters, 2021, 46, 953.	3.3	1
151	CMOS-Compatible ALD Zinc Oxide Coating for On-Chip Second-Order Nonlinear Optical Functionalities. , 2017, , .		1
152	Micro-Transfer-Printing for III-V/Si PICs. , 2020, , .		1
153	Experimental characterization of biosensor based on surface plasmon nano interferometer. , 2008, , .		0
154	A PSQ-L polymer microring resonator fabricated by a simple UV-based soft-lithography process. , 2009, , .		0
155	Compact demultiplexer using cascaded planar concave grating and ring resonators on SOI. , 2009, , .		0
156	Nonlinear Optics in Silicon Wire Waveguides: Towards Integrated Long Wavelength Light Sources. Materials Research Society Symposia Proceedings, 2012, 1437, 58.	0.1	0
157	Miniaturized laser Doppler vibrometers integrated on silicon-on-insulator with thermo-optic serrodyne optical frequency shifter. , 2012, , .		0
158	Silicon photonics for on-chip spectrophotometry. , 2015, , .		0
159	High resolution silicon-on-insulator mid-infrared spectrometers operating at $3.3 \mu\text{m}$. , 2017, , .		0
160	20 Years of Silicon Photonics: Lessons Learned, Lessons to be Learned. , 2018, , .		0
161	Tantalum Pentoxide Slot Waveguides for Waveguide Enhanced Raman Spectroscopy. , 2021, , .		0
162	Influence of optical amplifiers for on-chip homodyne laser Doppler vibrometers. Journal of Physics: Conference Series, 2021, 2041, 012005.	0.4	0

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163	Lossless High-speed Silicon Photonic MZI switch with a Micro-Transfer-Printed III-V amplifier. , 2022, , .		0