

Kresten Yvind

List of Publications by Year in descending order

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217
papers

5,140
citations

76326

40
h-index

98798

67
g-index

221
all docs

221
docs citations

221
times ranked

4304
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-low-loss inverted taper coupler for silicon-on-insulator ridge waveguide. Optics Communications, 2010, 283, 3678-3682.	2.1	261
2	Efficient frequency comb generation in AlGaAs-on-insulator. Optica, 2016, 3, 823.	9.3	229
3	Slow light in a semiconductor waveguide at gigahertz frequencies. Optics Express, 2005, 13, 8136.	3.4	227
4	Effective Electro-Optical Modulation with High Extinction Ratio by a Graphene-Silicon Microring Resonator. Nano Letters, 2015, 15, 4393-4400.	9.1	196
5	Fully etched apodized grating coupler on the SOI platform with $\sim 0.58\%$ coupling efficiency. Optics Letters, 2014, 39, 5348.	3.3	185
6	Demonstration of a self-pulsing photonic crystal Fano laser. Nature Photonics, 2017, 11, 81-84.	31.4	166
7	Single-source chip-based frequency comb enabling extreme parallel data transmission. Nature Photonics, 2018, 12, 469-473.	31.4	165
8	Silicon-on-insulator polarization splitting and rotating device for polarization diversity circuits. Optics Express, 2011, 19, 12646.	3.4	159
9	Nonreciprocal transmission in a nonlinear photonic-crystal Fano structure with broken symmetry. Laser and Photonics Reviews, 2015, 9, 241-247.	8.7	125
10	Topology optimized mode conversion in a photonic crystal waveguide fabricated in silicon-on-insulator material. Optics Express, 2014, 22, 8525.	3.4	124
11	Ultra-compact integrated graphene plasmonic photodetector with bandwidth above 110 GHz. Nanophotonics, 2020, 9, 317-325.	6.0	113
12	Fano resonance control in a photonic crystal structure and its application to ultrafast switching. Applied Physics Letters, 2014, 105, .	3.3	107
13	Efficient and compact TE-TM polarization converter built on silicon-on-insulator platform with a simple fabrication process. Optics Letters, 2011, 36, 1059.	3.3	98
14	High-efficiency, large-bandwidth silicon-on-insulator grating coupler based on a fully-etched photonic crystal structure. Applied Physics Letters, 2010, 96, .	3.3	96
15	Modulation response of nanoLEDs and nanolasers exploiting Purcell enhanced spontaneous emission. Optics Express, 2010, 18, 11230.	3.4	94
16	A self-starting hybrid optoelectronic oscillator generating ultra low jitter 10-GHz optical pulses and low phase noise electrical signals. IEEE Photonics Technology Letters, 2002, 14, 1004-1006.	2.5	87
17	Low-loss high-confinement waveguides and microring resonators in AlGaAs-on-insulator. Optics Letters, 2016, 41, 3996.	3.3	79
18	1060-nm Tunable Monolithic High Index Contrast Subwavelength Grating VCSEL. IEEE Photonics Technology Letters, 2013, 25, 365-367.	2.5	78

#	ARTICLE	IF	CITATIONS
19	Ultra-efficient and Broadband Nonlinear AlGaAs-on-insulator Chip for Low-power Optical Signal Processing. <i>Laser and Photonics Reviews</i> , 2018, 12, 1800111.	8.7	78
20	A Versatile Silicon-Silicon Nitride Photonics Platform for Enhanced Functionalities and Applications. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 255.	2.5	78
21	Widely tunable microwave phase shifter based on silicon-on-insulator dual-microring resonator. <i>Optics Express</i> , 2010, 18, 6172.	3.4	76
22	Ultra-coherent Fano laser based on a bound state in the continuum. <i>Nature Photonics</i> , 2021, 15, 758-764.	31.4	76
23	Ultra-high-speed wavelength conversion in a silicon photonic chip. <i>Optics Express</i> , 2011, 19, 19886.	3.4	72
24	Optical Waveform Sampling and Error-Free Demultiplexing of 1.28 Tb/s Serial Data in a Nanoengineered Silicon Waveguide. <i>Journal of Lightwave Technology</i> , 2011, 29, 426-431.	4.6	66
25	Slow-light-enhanced gain in active photonic crystal waveguides. <i>Nature Communications</i> , 2014, 5, 5039.	12.8	64
26	Low-Jitter and High-Power 40-GHz All-Active Mode-Locked Lasers. <i>IEEE Photonics Technology Letters</i> , 2004, 16, 975-977.	2.5	63
27	Slow Light in a Semiconductor Waveguide for True-Time Delay Applications in Microwave Photonics. <i>IEEE Photonics Technology Letters</i> , 2007, 19, 1145-1147.	2.5	61
28	Tunable Microwave Phase Shifter Based on Silicon-on-Insulator Microring Resonator. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 869-871.	2.5	59
29	Threshold Characteristics of Slow-Light Photonic Crystal Lasers. <i>Physical Review Letters</i> , 2016, 116, 063901.	7.8	59
30	Octave-spanning coherent supercontinuum generation in an AlGaAs-on-insulator waveguide. <i>Optics Letters</i> , 2020, 45, 603.	3.3	54
31	1.28-Tb/s Demultiplexing of an OTDM DPSK Data Signal Using a Silicon Waveguide. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 1762-1764.	2.5	53
32	Tunable complex-valued multi-tap microwave photonic filter based on single silicon-on-insulator microring resonator. <i>Optics Express</i> , 2011, 19, 12402.	3.4	52
33	Switching characteristics of an InP photonic crystal nanocavity: Experiment and theory. <i>Optics Express</i> , 2013, 21, 31047.	3.4	50
34	Investigations of Repetition Rate Stability of a Mode-Locked Quantum Dot Semiconductor Laser in an Auxiliary Optical Fiber Cavity. <i>IEEE Journal of Quantum Electronics</i> , 2010, 46, 150-157.	1.9	46
35	Hybrid vertical-cavity laser with lateral emission into a silicon waveguide. <i>Laser and Photonics Reviews</i> , 2015, 9, L11.	8.7	46
36	Annealing-free Si ₃ N ₄ frequency combs for monolithic integration with Si photonics. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	46

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37	Ultra-high-speed optical serial-to-parallel data conversion by time-domain optical Fourier transformation in a silicon nanowire. <i>Optics Express</i> , 2011, 19, B825.	3.4	44
38	Silicon Photonics for Signal Processing of Tbit/s Serial Data Signals. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2012, 18, 996-1005.	2.9	43
39	Voltage-controlled slow light in an integrated semiconductor structure with net gain. <i>Optics Express</i> , 2006, 14, 9955.	3.4	42
40	Characterization and Optimization of a High-Efficiency AlGaAs-On-Insulator-Based Wavelength Converter for 64- and 256-QAM Signals. <i>Journal of Lightwave Technology</i> , 2017, 35, 3750-3757.	4.6	41
41	One-to-six WDM multicasting of DPSK signals based on dual-pump four-wave mixing in a silicon waveguide. <i>Optics Express</i> , 2011, 19, 24448.	3.4	40
42	In-Plane Photonic Crystal Devices using Fano Resonances. <i>Laser and Photonics Reviews</i> , 2019, 13, 1900054.	8.7	40
43	Experimental demonstration of cascaded transmission and all-optical label swapping of orthogonal IM-FSK labelled signal. <i>Electronics Letters</i> , 2003, 39, 676.	1.0	39
44	Ultrafast all-optical modulation using a photonic-crystal Fano structure with broken symmetry. <i>Optics Letters</i> , 2015, 40, 2357.	3.3	36
45	High-Quality-Factor AlGaAs-on-Sapphire Microring Resonators. <i>Journal of Lightwave Technology</i> , 2019, 37, 868-874.	4.6	34
46	Quantitative strain mapping of InAs/InP quantum dots with 1-nm spatial resolution using dark field electron holography. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	30
47	High-performance 10-GHz all-active monolithic modelocked semiconductor lasers. <i>Electronics Letters</i> , 2004, 40, 735.	1.0	29
48	Improvement of temperature-stability in a quantum well laser with asymmetric barrier layers. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	29
49	Plasmonic modulator based on gain-assisted metal-semiconductor-metal waveguide. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2012, 10, 389-399.	2.0	29
50	Optical label encoding using electroabsorption modulators and investigation of chirp properties. <i>Journal of Lightwave Technology</i> , 2003, 21, 1763-1769.	4.6	28
51	Slow and fast light: Controlling the speed of light using semiconductor waveguides. <i>Laser and Photonics Reviews</i> , 2009, 3, 30-44.	8.7	28
52	Experimental demonstration of a four-port photonic crystal cross-waveguide structure. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	28
53	High-confinement gallium nitride-on-sapphire waveguides for integrated nonlinear photonics. <i>Optics Letters</i> , 2019, 44, 1064.	3.3	27
54	7½ 40 Gb/s base-rate RZ all-optical broadcasting utilizing an electroabsorption modulator. <i>Optics Express</i> , 2004, 12, 416.	3.4	26

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55	Ultra-low power all-optical wavelength conversion of high-speed data signals in high-confinement AlGaAs-on-insulator microresonators. <i>APL Photonics</i> , 2019, 4, .	5.7	26
56	Polarization insensitive wavelength conversion in a dispersion-engineered silicon waveguide. <i>Optics Express</i> , 2012, 20, 16374.	3.4	25
57	Orbital angular momentum modes emission from a silicon photonic integrated device for km-scale data-carrying fiber transmission. <i>Optics Express</i> , 2018, 26, 15471.	3.4	24
58	Resonant MEMS Tunable VCSEL. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013, 19, 1702306-1702306.	2.9	23
59	Squeezing of intensity noise in nanolasers and nanoLEDs with extreme dielectric confinement. <i>Optica</i> , 2020, 7, 1641.	9.3	23
60	Self-mixing interferometry in vertical-cavity surface-emitting lasers for nanomechanical cantilever sensing. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	22
61	Signal reshaping and noise suppression using photonic crystal Fano structures. <i>Optics Express</i> , 2018, 26, 19596.	3.4	21
62	Characterization and Optimization of Four-Wave-Mixing Wavelength Conversion System. <i>Journal of Lightwave Technology</i> , 2019, 37, 5628-5636.	4.6	21
63	15-THz Tunable Wavelength Conversion of Picosecond Pulses in a Silicon Waveguide. <i>IEEE Photonics Technology Letters</i> , 2011, 23, 1409-1411.	2.5	19
64	Low temperature bonding of heterogeneous materials using Al ₂ O ₃ as an intermediate layer. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018, 36, 011202.	1.2	19
65	Compact high-efficiency vortex beam emitter based on a silicon photonics micro-ring. <i>Optics Letters</i> , 2018, 43, 1319.	3.3	19
66	Wavelength Conversion of a 9.35-Gb/s RZ OOK Signal in an InP Photonic Crystal Nanocavity. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 257-260.	2.5	18
67	Semiconductor Fano Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019, 25, 1-14.	2.9	18
68	Super-broadband on-chip continuous spectral translation unlocking coherent optical communications beyond conventional telecom bands. <i>Nature Communications</i> , 2022, 13, .	12.8	18
69	Metal organic vapor-phase epitaxy of InAs/InGaAsP quantum dots for laser applications at 1.5 μm . <i>Applied Physics Letters</i> , 2011, 99, .	3.3	17
70	Hybrid III-V/SOI resonant cavity enhanced photodetector. <i>Optics Express</i> , 2016, 24, 16512.	3.4	17
71	Bright Quantum Dot Single-Photon Emitters at Telecom Bands Heterogeneously Integrated on Si. <i>ACS Photonics</i> , 2022, 9, 2273-2279.	6.6	17
72	Monolithically integrated reflective SOA-EA carrier re-modulator for broadband access nodes. <i>Optics Express</i> , 2006, 14, 8060.	3.4	16

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73	Towards Polarization Diversity on the SOI Platform With Simple Fabrication Process. IEEE Photonics Technology Letters, 2011, 23, 1808-1810.	2.5	16
74	Nonlinear switching dynamics in a photonic-crystal nanocavity. Applied Physics Letters, 2014, 105, .	3.3	16
75	Comparison of Monolithic Optical Frequency Comb Generators Based on Passively Mode-Locked Lasers for Continuous Wave mm-Wave and Sub-THz Generation. Journal of Lightwave Technology, 2012, 30, 3133-3141.	4.6	15
76	Single-Source AlGaAs Frequency Comb Transmitter for 661 Tbit/s Data Transmission in a 30-core Fiber. , 2016, , .		15
77	All-Optical Switching Improvement Using Photonic-Crystal Fano Structures. IEEE Photonics Journal, 2016, 8, 1-8.	2.0	14
78	Pulse carving using nanocavity-enhanced nonlinear effects in photonic crystal Fano structures. Optics Letters, 2018, 43, 955.	3.3	14
79	Comparison of processing-induced deformations of InP bonded to Si determined by e-beam metrology: Direct vs. adhesive bonding. Microelectronic Engineering, 2019, 214, 93-99.	2.4	14
80	Distributed fiber Raman amplification in long reach PON bidirectional access links. Optical Fiber Technology, 2008, 14, 41-44.	2.7	13
81	Optical Waveform Sampling and Error-free Demultiplexing of 1.28 Tbit/s Serial Data in a Silicon Nanowire. , 2010, , .		13
82	Observation of phase noise reduction in photonic synthesized sub-THz signals using a passively mode-locked laser diode and highly selective optical filtering. Optics Express, 2012, 20, 1253.	3.4	13
83	Thermoplastic microcantilevers fabricated by nanoimprint lithography. Journal of Micromechanics and Microengineering, 2010, 20, 015009.	2.6	12
84	160-Gb/s Silicon All-Optical Packet Switch for Buffer-less Optical Burst Switching. Journal of Lightwave Technology, 2015, 33, 843-848.	4.6	12
85	Thermal analysis of line-defect photonic crystal lasers. Optics Express, 2015, 23, 18277.	3.4	12
86	Suppression of sublinearity of lightâ€‘current curve in 850Ånm quantum well laser with asymmetric barrier layers. Electronics Letters, 2015, 51, 1106-1108.	1.0	12
87	85 km Long Reach PON System Using a Reflective SOA-EA Modulator and Distributed Raman Fiber Amplification. , 2006, , .		11
88	Steep and adjustable transfer functions of monolithic SOA-EA 2R regenerators. IEEE Photonics Technology Letters, 2006, 18, 1067-1069.	2.5	11
89	Forward error correction supported 150 Gbit/s error-free wavelength conversion based on cross phase modulation in silicon. Optics Express, 2013, 21, 3152.	3.4	10
90	Long All-Active Monolithic Mode-Locked Lasers With Surface-Etched Bragg Gratings. IEEE Photonics Technology Letters, 2007, 19, 1723-1725.	2.5	9

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91	Optimization of VCSELs for Self-Mixing Sensing. IEEE Photonics Technology Letters, 2010, 22, 667-669.	2.5	9
92	Nonlinear carrier dynamics in a quantum dash optical amplifier. New Journal of Physics, 2012, 14, 013042.	2.9	9
93	Extreme nonlinearities in InAs/InP nanowire gain media: the two-photon induced laser. Optics Express, 2012, 20, 5987.	3.4	9
94	Suppression of avoided resonance crossing in microresonators. Optics Letters, 2021, 46, 3508.	3.3	9
95	2R-Regeneration in a monolithically integrated four-section SOA-EA chip. Optics Communications, 2009, 282, 117-121.	2.1	8
96	Complex characterization of short-pulse propagation through InAs/InP quantum-dash optical amplifiers: from the quasi-linear to the two-photon-dominated regime. Optics Express, 2012, 20, 347.	3.4	8
97	Tunable MEMS VCSEL on Silicon Substrate. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-7.	2.9	8
98	Comparison of the noise performance of 10-GHz repetition rate quantum-dot and quantum well monolithic mode-locked semiconductor lasers. IET Optoelectronics, 2011, 5, 195-201.	3.3	7
99	41 GHz and 10.6 GHz low threshold and low noise InAs/InP quantum dash two-section mode-locked lasers in L band. Journal of Applied Physics, 2012, 111, 023102.	2.5	7
100	Efficient silicon PIC mode multiplexer using grating coupler array with aluminum mirror for few-mode fiber. , 2015, , .		7
101	744-nm wavelength conversion of PAM-4 signal using an AlGaAsOI nanowaveguide. Optics Letters, 2020, 45, 889.	3.3	7
102	Low-noise monolithic mode-locked semiconductor lasers through low-dimensional structures. Proceedings of SPIE, 2008, , .	0.8	6
103	Effect of asymmetric barrier layers in the waveguide region on the temperature characteristics of quantum-well lasers. Semiconductors, 2012, 46, 1027-1031.	0.5	6
104	Crosstalk-free all-optical switching enabled by Fano resonance in a multi-mode photonic crystal nanocavity. Optics Express, 2022, 30, 7457.	3.4	6
105	Tailored design of WDM filters in BCB embedded PhC membranes. Optical and Quantum Electronics, 2013, 45, 329-342.	3.3	5
106	Electrical Injection Schemes for Nanolasers. IEEE Photonics Technology Letters, 2014, 26, 330-333.	2.5	5
107	Linear all-optical signal processing using silicon micro-ring resonators. Frontiers of Optoelectronics, 2016, 9, 362-376.	3.7	5
108	Monolithic integration of InP on Si by molten alloy driven selective area epitaxial growth. Nanoscale, 2020, 12, 23780-23788.	5.6	5

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109	High-Order Phase-Matching Enabled Octave-Bandwidth Four-Wave Mixing in AlGaAs-On-Insulator Waveguides. , 2019, , .		5
110	10 Gb/s-NRZ Optical 2R-Regeneration in Two-Section SOA-EA Chip. , 2007, , .		4
111	Investigating the chemical and morphological evolution of GaAs capped InAs/InP quantum dots emitting at 1.5 μ m using aberration-corrected scanning transmission electron microscopy. Journal of Crystal Growth, 2011, 329, 57-61.	1.5	4
112	Photonic synthesis of continuous μ wave millimeter μ wave signals using a passively mode μ locked laser diode and selective optical filtering. Microwave and Optical Technology Letters, 2012, 54, 1416-1419.	1.4	4
113	Crystallographic dependence of the lateral undercut wet etch rate of Al _{0.5} In _{0.5} P in diluted HCl for III μ V sacrificial release. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, .	1.2	4
114	Wavelength Selective 3D Topology Optimized Photonic Crystal Devices. , 2013, , .		4
115	Silicon-on-Insulator Ring-Shaped Photonic Crystal Waveguides for Refractive Index Sensing. , 2010, , .		4
116	Topology-Optimized Slow-Light Couplers for Ring-Shaped Photonic Crystal Waveguide. , 2010, , .		4
117	Synthesis and systematic optical investigation of selective area droplet epitaxy of InAs/InP quantum dots assisted by block copolymer lithography. Optical Materials Express, 2019, 9, 1738.	3.0	4
118	Design and evaluation of mode-locked semiconductor lasers for low noise and high stability (Invited) Tj ETQq0 0 0 rgBT /Overlock 10 Tf		3
119	Slow light at high frequencies in an amplifying semiconductor waveguide. , 2006, , .		3
120	Lambda shifted photonic crystal cavity laser. Applied Physics Letters, 2010, 97, 191109.	3.3	3
121	10-GHz 1.59- μ m quantum dash passively mode-locked two-section lasers. Proceedings of SPIE, 2010, , .	0.8	3
122	Vertical-cavity surface-emitting laser vapor sensor using swelling polymer reflection modulation. Applied Physics Letters, 2012, 101, 143505.	3.3	3
123	Ultrafast low-energy all-optical switching using a photonic-crystal asymmetric Fano structure. , 2015, , .		3
124	Supercontinuum Generation in AlGaAs-On-Insulator Nano-Waveguide at Telecom Wavelengths. , 2016, , .		3
125	Effective carrier sweepout in a silicon waveguide by a metal-semiconductor-metal structure. , 2015, , .		3
126	Wide-band residual phase-noise measurements on 40-GHz monolithic mode-locked lasers. IEEE Photonics Technology Letters, 2005, 17, 2388-2390.	2.5	2

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127	Polymer-coated vertical-cavity surface-emitting laser diode vapor sensor. , 2010, , .		2
128	Ultra-low-loss nano-taper coupler for silicon-on-insulator ridge waveguide. , 2010, , .		2
129	Enhanced gain in photonic crystal amplifiers. , 2012, , .		2
130	Ultra-fast low energy switching using an InP photonic crystal H0 nanocavity. , 2013, , .		2
131	Topology optimized mode conversion in a photonic crystal waveguide. , 2013, , .		2
132	The chromatographic separation of particles using optical electric fields. Lab on A Chip, 2013, 13, 928.	6.0	2
133	Resonance Energy Transfer in Hybrid Devices in the Presence of a Surface. Journal of Physical Chemistry C, 2014, 118, 16284-16289.	3.1	2
134	Optically pumped 1550nm wavelength tunable MEMS VCSEL. Proceedings of SPIE, 2016, , .	0.8	2
135	Low-Power Thermo-Optic Switching Using Photonic Crystal Fano Structure with p-i-n Junction. , 2019, , .		2
136	SiNOI and AlGaAs-on-SOI nonlinear circuits for continuum generation in Si photonics. , 2018, , .		2
137	Ultra-Low Threshold Power On-Chip Optical Parametric Oscillation in AlGaAs-On-Insulator Microresonator. , 2015, , .		2
138	Broadband and Efficient Dual-Pump Four-Wave-Mixing in AlGaAs-On-Insulator Nano-Waveguides. , 2016, , .		2
139	Wavelength conversion of 10 Gbit/s data from 2000 to 1255 nm using an AlGaAsOI nanowaveguide and a continuous-wave pump in the C band. , 2019, , .		2
140	Fully-Etched Photonic Crystal Grating Coupler as an Interface between Single-Mode Fibers and Photonic Circuits on Silicon-on-Insulator. , 2010, , .		1
141	Pulse Delay Measurements in Cascaded Quantum-Well Gain and Absorber Media. IEEE Photonics Technology Letters, 2010, 22, 365-367.	2.5	1
142	Active III–V semiconductor photonic crystal waveguides. , 2011, , .		1
143	High-speed photodetectors in a photonic crystal platform. , 2012, , .		1
144	Individual optimization of InAlGaAsP-InP sections for 1.55-μm passively mode-locked lasers. , 2012, , .		1

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145	Design and geometry of hybrid white light-emitted diodes for efficient energy transfer from the quantum well to the nanocrystals. Proceedings of SPIE, 2013, , .	0.8	1
146	Fully-etched apodized fiber-to-chip grating coupler on the SOI platform with −0.78 dB coupling efficiency using photonic crystals and bonded Al mirror. , 2014, , .		1
147	Low-power 10 Gbit/s RZ-OOK all-optical modulation using a novel photonic-crystal Fano switch. , 2014, , .		1
148	All-optical signal processing using InP photonic-crystal nanocavity switches. , 2014, , .		1
149	Highly Sensitive Photonic Crystal Cavity Laser Noise Measurements using Bayesian Filtering. , 2015, , .		1
150	Topology-optimized silicon photonic wire mode (de)multiplexer. Proceedings of SPIE, 2015, , .	0.8	1
151	Topology optimized design for silicon-on-insulator mode converter. , 2015, , .		1
152	Supercontinuum comb sources for broadband communications based on AlGaAs-on-insulator. Proceedings of SPIE, 2017, , .	0.8	1
153	Lasers, switches and non-reciprocal elements based on photonic crystal Fano resonances. , 2017, , .		1
154	Towards High-Speed Fano Photonic Switches. , 2019, , .		1
155	Stimulated Brillouin Scattering on AlGaAs on Sapphire platform. , 2021, , .		1
156	Pulse delay and speed-up of ultra fast pulses in an absorbing quantum well medium. , 2008, , .		1
157	10 GHz Frequency Comb Spectral Broadening in AlGaAs-On-Insulator Nano-Waveguide with Ultra-Low Pump Power. , 2017, , .		1
158	An ultra-efficient nonlinear planar integrated platform for optical signal processing and generation. , 2017, , .		1
159	Photonic crystal Fano resonances for realizing optical switches, lasers, and non-reciprocal elements. , 2017, , .		1
160	Low temperature bonding of heterogeneous materials using Al ₂ O ₃ as an intermediate layer. , 2018, , .		1
161	Nano-engineered high-confinement AlGaAs waveguide devices for nonlinear photonics. , 2018, , .		1
162	Efficient and Broadband Four-Wave Mixing in AlGaAs Microresonator for High-Speed Optical Signal Processing. , 2019, , .		1

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163	Doping technologies for InP membranes on silicon for nanolasers. , 2019, , .		1
164	Generation and Coherent Detection of 2-Åµm-band WDM-QPSK Signals by On-chip Spectral Translation. , 2020, , .		1
165	Experimental Realization of Topology-Optimized InP Photonic Cavities with Extreme Dielectric Confinement. , 2021, , .		1
166	An in situ monitoring technique for optimizing anti-reflection coatings using a monolithic integrated photodetector. Semiconductor Science and Technology, 2006, 21, 1030-1033.	2.0	0
167	High-Power and Low-Noise 10-GHz All-Active Monolithic Mode-Locked Lasers with Surface Etched Bragg Grating. , 2007, , .		0
168	Optimization of self-mixing modulation in VCSELs for sensing applications. , 2009, , .		0
169	Slow and fast light effects in semiconductor waveguides for applications in microwave photonics. Proceedings of SPIE, 2009, , .	0.8	0
170	Quarter-lambda-shifted photonic crystal lasers. , 2010, , .		0
171	Numerical modeling in photonic crystals integrated technology: The COPERNICUS Project. , 2011, , .		0
172	Complex-coefficient microwave photonic tunable filter using slow light silicon-on-insulator-based microring resonator. , 2011, , .		0
173	Enhanced gain in slow-light photonic crystal waveguides with embedded quantum dots. , 2011, , .		0
174	Slow-light enhancement of spontaneous emission in active photonic crystal waveguides. Proceedings of SPIE, 2012, , .	0.8	0
175	Dynamic Characterization and Impulse Response Modeling of Amplitude and Phase Response of Silicon Nanowires. IEEE Photonics Journal, 2013, 5, 4500111-4500111.	2.0	0
176	Tunable resonant-cavity-enhanced photodetector with double high-index-contrast grating mirrors. Proceedings of SPIE, 2013, , .	0.8	0
177	Influence of thermal effects induced by nonlinear absorption on four-wave mixing in silicon waveguides. , 2014, , .		0
178	Butt-joint integration of active optical components based on InP/AlInGaAsP alloys. , 2014, , .		0
179	Temporal dynamics of all-optical switching in Photonic Crystal Cavity. , 2014, , .		0
180	On-chip wavelength switch based on thermally tunable discrete four-wave mixing in a silicon waveguide. , 2014, , .		0

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181	Slow-light effects in photonic crystal membrane lasers. , 2015, , .		0
182	Hybrid III-V/SOI resonant cavity photodetector. , 2016, , .		0
183	An ultra-efficient nonlinear platform: AlGaAs-on-insulator. , 2016, , .		0
184	Switching dynamics in InP photonic-crystal nanocavity. Frontiers of Optoelectronics, 2016, 9, 395-398.	3.7	0
185	On-chip mode division multiplexing technologies. , 2016, , .		0
186	Photonic crystal Fano lasers and Fano switches. , 2017, , .		0
187	Towards Polarization-Independent Four-Wave Mixing in Dispersion Engineered AlGaAs-on-Insulator Nano-Waveguide. , 2017, , .		0
188	Experimental demonstration of a Fano laser based on photonic crystals. , 2017, , .		0
189	Ultra-Broadband Optical Signal Processing using AlGaAs-OI Devices. , 2017, , .		0
190	Broadband Light Sources Based On Highly-Nonlinear AlGaAs-On-Insulator Waveguide Devices. , 2018, , .		0
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