

D Van Thourhout

List of Publications by Year in descending order

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papers

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57758

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all docs

228
docs citations

228
times ranked

7269
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband Optical Phase Modulation by Colloidal CdSe Quantum Wells. Nano Letters, 2022, 22, 58-64.	9.1	8
2	Chip-integrated van der Waals PN heterojunction photodetector with low dark current and high responsivity. Light: Science and Applications, 2022, 11, 101.	16.6	57
3	2D materials-enabled optical modulators: From visible to terahertz spectral range. Applied Physics Reviews, 2022, 9, .	11.3	32
4	PZT Based Acoustic Resonator for the Refractive Index Modulation. , 2022, , .		0
5	Laser Written Glass Interposer for Fiber Coupling to Silicon Photonic Integrated Circuits. IEEE Photonics Journal, 2021, 13, 1-12.	2.0	12
6	2D-3D integration of hexagonal boron nitride and a high- ϵ dielectric for ultrafast graphene-based electro-absorption modulators. Nature Communications, 2021, 12, 1070.	12.8	40
7	Towards Maximum Energy Efficiency of Carrier-Injection-Based Silicon Photonics. Journal of Lightwave Technology, 2021, 39, 2931-2940.	4.6	4
8	Localization-limited exciton oscillator strength in colloidal CdSe nanoplatelets revealed by the optically induced stark effect. Light: Science and Applications, 2021, 10, 112.	16.6	30
9	Reversible and Tunable Second-Order Nonlinear Optical Susceptibility in PZT Thin Films for Integrated Optics. Advanced Optical Materials, 2021, 9, 2100149.	7.3	6
10	High-responsivity graphene photodetectors integrated on silicon microring resonators. Nature Communications, 2021, 12, 3733.	12.8	57
11	Out-of-Plane Focusing Grating Couplers for Silicon Photonics Integration With Optical MRAM Technology. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-8.	2.9	23
12	High Absorption Contrast Quantum Confined Stark Effect in Ultra-Thin Ge/SiGe Quantum Well Stacks Grown on Si. IEEE Journal of Quantum Electronics, 2020, 56, 1-7.	1.9	16
13	Strain-engineered high-responsivity MoTe ₂ photodetector for silicon photonic integrated circuits. Nature Photonics, 2020, 14, 578-584.	31.4	172
14	Time-resolved photoluminescence characterization of InGaAs/GaAs nano-ridges monolithically grown on 300 mm Si substrates. Journal of Applied Physics, 2020, 127, 103104.	2.5	5
15	RoF System Based on an III-V-on-Silicon Transceiver With a Transfer-Printed PD. IEEE Photonics Technology Letters, 2019, 31, 1045-1048.	2.5	4
16	Integration of Colloidal PbS/CdS Quantum Dots with Plasmonic Antennas and Superconducting Detectors on a Silicon Nitride Photonic Platform. Nano Letters, 2019, 19, 5452-5458.	9.1	24
17	Integration of single photon emitters in 2D layered materials with a silicon nitride photonic chip. Nature Communications, 2019, 10, 4435.	12.8	168
18	III-V-on-Si photonic integrated circuits realized using micro-transfer-printing. APL Photonics, 2019, 4, .	5.7	108

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19	Ultrafast carrier dynamics in colloidal WS ₂ nanosheets obtained through a hot injection synthesis. <i>Journal of Chemical Physics</i> , 2019, 151, 164701.	3.0	19
20	Broadband and Temperature Tolerant Silicon Nitride Liquid Controlled Waveguide Coupler. <i>Journal of Lightwave Technology</i> , 2019, 37, 2311-2316.	4.6	2
21	Generating novel waveguides for stimulated Brillouin scattering with genetic algorithms. <i>APL Photonics</i> , 2019, 4, .	5.7	7
22	Design optimization for energy-efficient pulse-switching networks in carrier-injection based Si-photonics. , 2019, , .		2
23	2D-3D integration of high- $\hat{\epsilon}$ dielectric with 2D heterostructures for opto-electronic applications. , 2019, , .		0
24	Sideband pump-probe technique resolves nonlinear modulation response of PbS/CdS quantum dots on a silicon nitride waveguide. <i>APL Photonics</i> , 2018, 3, 016101.	5.7	8
25	Microwave index engineering for slow-wave coplanar waveguides. <i>Scientific Reports</i> , 2018, 8, 5672.	3.3	11
26	High Extinction Ratio Hybrid Graphene-Silicon Photonic Crystal Switch. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 157-160.	2.5	19
27	Transfer Print Integration of Waveguide-Coupled Germanium Photodiodes Onto Passive Silicon Photonic ICs. <i>Journal of Lightwave Technology</i> , 2018, 36, 1249-1254.	4.6	18
28	Continuous-wave infrared optical gain and amplified spontaneous emission at ultralow threshold by colloidal HgTe quantum dots. <i>Nature Materials</i> , 2018, 17, 35-42.	27.5	99
29	FDTS as Dewetting Coating for an Electrowetting Controlled Silicon Photonic Switch. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 2005-2008.	2.5	5
30	Heterogeneous Integration on Silicon Photonics. <i>Proceedings of the IEEE</i> , 2018, 106, 2258-2269.	21.3	31
31	Nanophotonic Pockels modulators on a silicon nitride platform. <i>Nature Communications</i> , 2018, 9, 3444.	12.8	163
32	Transfer Printing for Silicon Photonics Transceivers and Interposers. , 2018, , .		3
33	A 16×16 Non-Volatile Silicon Photonic Switch Circuit. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 1258-1261.	2.5	7
34	Optical Interconnect Solution With Plasmonic Modulator and Ge Photodetector Array. <i>IEEE Photonics Technology Letters</i> , 2017, 29, 1760-1763.	2.5	19
35	2 Å— 56 Gbps Electroabsorption Modulated III-V-on-Silicon DFB Laser. , 2017, , .		0
36	Analysis of homogeneous broadening in n-type doped Ge layers on Si for laser application. , 2017, , .		1

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37	Reduction of optical bleaching in phosphorus doped Ge layer on Si. , 2017, , .		0
38	III-V on silicon DFB laser arrays. , 2016, , .		0
39	Diffraction studies for stoichiometry effects in BaTiO ₃ grown by molecular beam epitaxy on Ge(001). Journal of Applied Physics, 2016, 120, .	2.5	4
40	III/V nano ridge structures for optical applications on patterned 300nm silicon substrate. Applied Physics Letters, 2016, 109, .	3.3	79
41	III-V-on-silicon photonic integrated circuits for communication and sensing applications. , 2015, , .		2
42	Lanthanide-Assisted Deposition of Strongly Electro-optic PZT Thin Films on Silicon: Toward Integrated Active Nanophotonic Devices. ACS Applied Materials & Interfaces, 2015, 7, 13350-13359.	8.0	58
43	Plasmonic-organic hybrid (POH) modulators for OOK and BPSK signaling at 40 Gbit/s. Optics Express, 2015, 23, 9938.	3.4	65
44	Heterogenously-integrated InP on Si microdisk lasers. Proceedings of SPIE, 2015, , .	0.8	0
45	Comparison of AWGs and Echelle Gratings for Wavelength Division Multiplexing on Silicon-on-Insulator. IEEE Photonics Journal, 2014, 6, 1-9.	2.0	107
46	High-speed plasmonic phase modulators. Nature Photonics, 2014, 8, 229-233.	31.4	511
47	III-V on-silicon sources for optical interconnect applications. , 2014, , .		0
48	Integration of high performance silicon optical modulators. , 2013, , .		0
49	A 2D MEMS grating based CMOS compatible poly-SiGe variable optical attenuator. Microelectronic Engineering, 2013, 105, 8-12.	2.4	1
50	III-V/silicon photonic integrated circuits for communication and sensing applications. , 2013, , .		1
51	Heterogeneously integrated III-V/Si single mode lasers based on a MMI-ring configuration and triplet-ring reflectors. , 2013, , .		2
52	All-Optical Low-Power 2R Regeneration of 10-Gb/s NRZ Signals Using a III-V on SOI Microdisk Laser. IEEE Photonics Journal, 2013, 5, 7802510-7802510.	2.0	6
53	Demonstration of a novel III-V-on-Si distributed feedback laser. , 2013, , .		5
54	Uniformity of the lasing wavelength of heterogeneously integrated InP microdisk lasers on SOI. Optics Express, 2013, 21, 10622.	3.4	17

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55	Unidirectional III-V microdisk lasers heterogeneously integrated on SOI. Optics Express, 2013, 21, 19339.	3.4	29
56	Ultra-thin DVS-BCB adhesive bonding of III-V wafers, dies and multiple dies to a patterned silicon-on-insulator substrate. Optical Materials Express, 2013, 3, 35.	3.0	147
57	III-V-on-silicon multi-frequency lasers. Optics Express, 2013, 21, 13675.	3.4	32
58	Heterogeneously integrated III-V/silicon distributed feedback lasers. Optics Letters, 2013, 38, 5434.	3.3	93
59	III-V on Silicon Transmitters. , 2013, , .		3
60	Compact SOI-based polarization diversity wavelength de-multiplexer circuit using two symmetric AWGs. Optics Express, 2012, 20, B493.	3.4	36
61	Ultracompact electro-optic phase modulator based on III-V-on-silicon microdisk resonator. Optics Letters, 2012, 37, 2379.	3.3	14
62	Hybrid silicon lasers for optical interconnect. , 2012, , .		1
63	Quantum rod emission coupled to plasmonic lattice resonances: A collective directional source of polarized light. Applied Physics Letters, 2012, 100, 111103.	3.3	86
64	Chip-to-chip plasmonic interconnects and the activities of EU project NAVOLCHI. , 2012, , .		2
65	A highly efficient electrically pumped optical amplifier integrated on a SOI waveguide circuit. , 2012, , .		9
66	CMOS-compatible Tungsten heaters for silicon photonic waveguides. , 2012, , .		12
67	Ultracompact Phase Modulator Based on a Cascade of NEMS-Operated Slot Waveguides Fabricated in Silicon-on-Insulator. IEEE Photonics Journal, 2012, 4, 779-788.	2.0	45
68	An optically pumped nanophotonic InP/InGaAlAs optical amplifier integrated on a SOI waveguide circuit. Optical and Quantum Electronics, 2012, 44, 513-519.	3.3	6
69	Strategies to increase the modal gain in heterogeneously integrated III-V amplifiers on silicon-on-insulator. Optical and Quantum Electronics, 2012, 44, 683-689.	3.3	5
70	Integrated hybrid III–V/Si laser and transmitter. , 2012, , .		7
71	Hybrid III-V/Si Distributed-Feedback Laser Based on Adhesive Bonding. IEEE Photonics Technology Letters, 2012, 24, 2155-2158.	2.5	85
72	Low-Threshold Heterogeneously Integrated InP/SOI Lasers With a Double Adiabatic Taper Coupler. IEEE Photonics Technology Letters, 2012, 24, 76-78.	2.5	138

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73	High performance silicon optical modulators. Proceedings of SPIE, 2012, , .	0.8	0
74	Static and dynamic characterization of pull-in protected CMOS compatible poly-SiGe grating light valves. Sensors and Actuators A: Physical, 2012, 179, 283-290.	4.1	3
75	The BOOM Project: Towards 160 Gb/s Packet Switching Using SOI Photonic Integrated Circuits and Hybrid Integrated Optical Flip-Flops. Journal of Lightwave Technology, 2012, 30, 22-30.	4.6	6
76	Silicon microring resonators. Laser and Photonics Reviews, 2012, 6, 47-73.	8.7	1,788
77	10 Gb/s Integrated Tunable Hybrid III-V/Si Laser and Silicon Mach-Zehnder Modulator. , 2012, , .		17
78	Nonlinear Optical Functions in Crystalline and Amorphous Silicon-on-Insulator Nanowires. , 2012, , .		0
79	Compact SOI-based AWG with flattened spectral response using a MMI. , 2011, , .		11
80	Proof-of-concept demonstration of an all-optical de-multiplexer using III–V/SOI microdisk resonator fabricated in a CMOS pilot line. , 2011, , .		0
81	Laser sources on a heterogeneous III–V/silicon platform. , 2011, , .		0
82	A nanophotonic InP/InGaAlAs optical amplifier integrated on a SOI waveguide circuit. , 2011, , .		0
83	Bias-free, low power and optically driven membrane InP switch on SOI for remotely configurable photonic packet switches. Optics Express, 2011, 19, B817.	3.4	12
84	Grating-Based Optical Fiber Interfaces for Silicon-on-Insulator Photonic Integrated Circuits. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 571-580.	2.9	114
85	Static and dynamic characterization of poly-SiGe grating light valves. , 2011, , .		0
86	Bridging the Gap Between Nanophotonic Waveguide Circuits and Single Mode Optical Fibers Using Diffractive Grating Structures. Journal of Nanoscience and Nanotechnology, 2010, 10, 1551-1562.	0.9	49
87	Modulators and photodetectors developed in the framework of the European HELIOS project. Proceedings of SPIE, 2010, , .	0.8	1
88	Compact, Low Power and Low Threshold Electrically Pumped Micro Disc Lasers for 20Gb/s Non Return to Zero All Optical Wavelength Conversion. , 2010, , .		4
89	SiGe based grating light valves: A leap towards monolithic integration of MOEMS. Microelectronic Engineering, 2010, 87, 1195-1197.	2.4	4
90	Hybrid active photonic crystal structures: III-V based slow light waveguides or nanocavities coupled to SOI wires. , 2010, , .		0

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91	Photonics and electronics integration in the HELIOS project. , 2010, , .		11
92	High efficiency broadband polarization rotator on silicon-on-insulator. , 2010, , .		4
93	III-V/silicon-on-insulator photonic integrated circuit for fiber-to-the-home central office transceivers in a point-to-point network configuration. , 2010, , .		2
94	Heterogeneous integration and precise alignment of InP-based photonic crystal lasers to complementary metal-oxide semiconductor fabricated silicon-on-insulator wire waveguides. Journal of Applied Physics, 2010, 107, .	2.5	42
95	Heterogeneously integrated InP/SOI laser using double tapered single-mode waveguides through adhesive die to wafer bonding. , 2010, , .		9
96	High-efficiency fiber-to-chip grating couplers realized using an advanced CMOS-compatible Silicon-On-Insulator platform. Optics Express, 2010, 18, 18278.	3.4	418
97	Generation of correlated photons in hydrogenated amorphous-silicon waveguides. Optics Letters, 2010, 35, 3483.	3.3	32
98	InP/InGaAs Photodetector on SOI Photonic Circuitry. IEEE Photonics Journal, 2010, 2, 299-305.	2.0	45
99	Photonic integrated circuits in silicon-on-insulator. , 2010, , .		4
100	Silicon optomechanics. , 2010, , .		0
101	All-optical flip-flops using electrically pumped microdisk lasers integrated on silicon. , 2010, , .		0
102	Towards a low-power nanophotonic semiconductor amplifier heterogeneously integrated with SOI waveguides. , 2010, , .		0
103	All-optical wavelength conversion at 160Gb/s using an SOA and a 3 rd order SOI nanowire periodic filter. , 2010, , .		1
104	Towards a new platform for integrated optics: III-V photonic crystals bonded to silicon on insulator wire waveguides. , 2009, , .		0
105	InP-based photodetector bonded on CMOS with Si ₃ N ₄ interconnect waveguides. , 2009, , .		5
106	All-optical low-power switch based on III-V/SOI heterogeneous integration. , 2009, , .		0
107	Hybrid InP-based photonic crystal lasers on silicon on insulator wires. Applied Physics Letters, 2009, 95, 201119.	3.3	21
108	InP-based 2D photonic crystal lasers heterogeneously integrated and coupled to SOI wires. , 2009, , .		0

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109	Optical gradient force in a slot waveguide on a Silicon-on-Insulator-Chip. , 2009, , .		2
110	Low-loss amorphous silicon-on-insulator technology for photonic integrated circuitry. Optics Communications, 2009, 282, 1767-1770.	2.1	119
111	Fabrication of Photonic Wire and Crystal Circuits in Silicon-on-Insulator Using 193-nm Optical Lithography. Journal of Lightwave Technology, 2009, 27, 4076-4083.	4.6	196
112	Nanophotonic Polarization Diversity Demultiplexer Chip. Journal of Lightwave Technology, 2009, 27, 417-425.	4.6	34
113	Highly Integrated Optical 4x4 Crossbar in Silicon-on-Insulator Technology. Journal of Lightwave Technology, 2009, 27, 3317-3323.	4.6	39
114	Silicon-on-Insulator (SOI) Ring Resonator-Based Integrated Optical Hydrogen Sensor. IEEE Photonics Technology Letters, 2009, 21, 960-962.	2.5	56
115	Silicon-on-Insulator CWDM Power Monitor/Receiver With Integrated Thin-Film InGaAs Photodetectors. IEEE Photonics Technology Letters, 2009, 21, 1423-1425.	2.5	14
116	InP/InGaAs photodetector on SOI circuitry. , 2009, , .		6
117	III–V photonic crystal lasers heterogeneously bonded to Silicon-On-Insulator waveguides. , 2009, , .		1
118	European HELIOS project: Silicon photonic photodetector integration. , 2009, , .		6
119	Optomechanical interactions between nanophotonic wires on a silicon-on-insulator-chip. , 2009, , .		1
120	Interfacing optical fibers and high refractive index contrast waveguide circuits using diffractive grating couplers. , 2009, , .		3
121	Polymer wedge for perfectly vertical light coupling to silicon. Proceedings of SPIE, 2009, , .	0.8	9
122	Silicon photonics developments in Europe. Proceedings of SPIE, 2009, , .	0.8	1
123	Nanophotonic Devices for Optical Networks-On-Chip. , 2009, , .		0
124	InP 2D Photonic Crystal Lasers integrated onto SOI waveguides. , 2009, , .		0
125	Emission of positronium in a nanometric PMMA film. Applied Surface Science, 2008, 255, 197-200.	6.1	1
126	Planar Concave Grating Demultiplexer With High Reflective Bragg Reflector Facets. IEEE Photonics Technology Letters, 2008, 20, 309-311.	2.5	103

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127	Continuous Time-of-Flight Ranging Using a MEMS Diffractive Subwavelength Period Grating (de)Modulator. IEEE Photonics Technology Letters, 2008, 20, 1827-1829.	2.5	3
128	Focused-Ion-Beam Fabrication of Slots in Silicon Waveguides and Ring Resonators. IEEE Photonics Technology Letters, 2008, 20, 2004-2006.	2.5	19
129	Electrophoretic deposition of ZnO nanoparticles, from micropatterns to substrate coverage. Nanotechnology, 2008, 19, 245301.	2.6	25
130	Design and Optimization of Electrically Injected InP-Based Microdisk Lasers Integrated on and Coupled to a SOI Waveguide Circuit. Journal of Lightwave Technology, 2008, 26, 52-63.	4.6	40
131	Trimming of silicon ring resonator by electron beam induced compaction and strain. Optics Express, 2008, 16, 3738.	3.4	115
132	High efficiency diffractive grating couplers for interfacing a single mode optical fiber with a nanophotonic silicon-on-insulator waveguide circuit. Applied Physics Letters, 2008, 92, .	3.3	144
133	Silicon-on-insulator nanophotonic waveguide circuit for fiber-to-the-home transceivers. , 2008, , .		9
134	Quantum Dot Micropatterning on Si. Langmuir, 2008, 24, 5961-5966.	3.5	25
135	Indium phosphide based membrane photodetector for optical interconnects on silicon. , 2008, , .		7
136	Heterogeneous III–V/Silicon-on-insulator photonic integrated circuits. , 2008, , .		0
137	Compact integrated photonic crystal demultiplexer for emitting and receiving InP photonic integrated circuits. , 2008, , .		1
138	Enhanced nonlinearity in SOI microcavities by III–V/SOI heterogeneous integration. , 2008, , .		0
139	Multifunctional Photonic Crystal Compact Demux-Detector on InP. , 2008, , .		2
140	Miniature integrated spectrometer fabricated on a silicon-on-insulator substrate. , 2008, , .		5
141	A dynamic subwavelength pitch grating modulator for continuous Time-Of-Flight ranging with optical mixing. , 2008, , .		1
142	Grating coupled photonic crystal demultiplexer with integrated detectors on InP-membrane. , 2008, , .		0
143	Compact Multiwavelength Laser Source Based on Cascaded InP-Microdisks Coupled to One SOI Waveguide. , 2008, , .		1
144	Light emission and enhanced nonlinearity in nanophotonic waveguide circuits by III–V/silicon-on-insulator heterogeneous integration. Journal of Applied Physics, 2008, 104, 033117.	2.5	9

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145	Low-loss, InP-based integrated optical isolators. , 2008, , .		2
146	III-V silicon heterogeneous integration for integrated transmitters and receivers. Proceedings of SPIE, 2008, , .	0.8	1
147	Electrically injected InP microdisk lasers integrated with nanophotonic SOI circuits. Proceedings of SPIE, 2008, , .	0.8	1
148	Photonic-crystal surface-emitting laser near 1.55â€¦[micro sign]m on gold-coated silicon wafer. Electronics Letters, 2007, 43, 343.	1.0	8
149	Silicon Nanophotonics and Its Applications in Sensing. , 2007, , .		2
150	Detection of nanomechanical motion by evanescent light wave coupling. Applied Physics Letters, 2007, 90, 233116.	3.3	41
151	InP-based Membrane Photodetectors for Optical Interconnects to Si. , 2007, , .		5
152	Compact Focusing Grating Couplers Between Optical Fibers and Silicon-on-Insulator Photonic Wire Waveguides. , 2007, , .		10
153	Integration of an Electrically Driven InGaAsP Based Microdisk Laser with a Silicon based Passive Photonic Circuit. , 2007, , .		4
154	A photonic interconnect layer on CMOS. , 2007, , .		5
155	Integrated nanomechanical motion detection by means of optical evanescent wave coupling. , 2007, , .		0
156	High efficiency grating coupler between silicon-on-insulator waveguides and perfectly vertical optical fibers. Optics Letters, 2007, 32, 1495.	3.3	149
157	Low-loss, low-cross-talk crossings for silicon-on-insulator nanophotonic waveguides. Optics Letters, 2007, 32, 2801.	3.3	300
158	Electrically pumped InP-based microdisk lasers integrated with a nanophotonic silicon-on-insulator waveguide circuit. Optics Express, 2007, 15, 6744.	3.4	475
159	Silicon-on-Insulator Grating Duplexer for Fiber-To-The-Home Transceivers. , 2007, , .		0
160	Ultra-compact optical filters in Silicon-on-Insulator and their Applications. , 2007, , .		6
161	Systematic Simulation-Based Predictive Synthesis of Integrated Optical Interconnect. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2007, 15, 927-940.	3.1	27
162	Heterogeneous Integration of III-V Active Devices on a Silicon-on-Insulator Photonic Platform. , 2007, , .		1

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163	III-V/Si photonics by die-to-wafer bonding. <i>Materials Today</i> , 2007, 10, 36-43.	14.2	160
164	Realization of a Four-Electrode Liquid Crystal Device With Full In-Plane Director Rotation. <i>IEEE Transactions on Electron Devices</i> , 2007, 54, 1295-1300.	3.0	5
165	Thin film InGaAs/InAlAs photodetectors integrated on a silicon-on-insulator waveguide substrate. , 2007, , .		0
166	Focused-Ion-Beam Fabricated Vertical Fiber Couplers on Silicon-on-Insulator Waveguides. , 2006, , .		1
167	Heterogeneous Integration of III-V Photodetectors and Laser Diodes on Silicon-on-Insulator Waveguide Circuits. , 2006, , .		5
168	Electrically Injected InGaAsP Microdisk Lasers Heterogeneously Integrated on a Si-Wafer. , 2006, , .		1
169	Compact wavelength router based on a Silicon-on-insulator arrayed waveguide grating pigtailed to a fiber array. <i>Optics Express</i> , 2006, 14, 664.	3.4	125
170	Heterogeneous integration of electrically driven microdisk based laser sources for optical interconnects and photonic ICs. <i>Optics Express</i> , 2006, 14, 3864.	3.4	67
171	Laser emission and photodetection in an InP/InGaAsP layer integrated on and coupled to a Silicon-on-Insulator waveguide circuit. <i>Optics Express</i> , 2006, 14, 8154.	3.4	187
172	Silicon nanophotonics using deep-UV lithography. <i>Proceedings of SPIE</i> , 2006, , .	0.8	0
173	High Index-Contrast Silicon-On-Insulator Nanophotonics. , 2006, , .		3
174	High speed logic gate using two-photon absorption in silicon waveguides. <i>Optics Communications</i> , 2006, 265, 171-174.	2.1	96
175	The non-linear refractive index of colloidal PbSe nanocrystals: Spectroscopy and saturation behaviour. <i>Journal of Luminescence</i> , 2006, 121, 369-374.	3.1	11
176	Compact and efficient fiber-to-waveguide grating couplers in InP-membrane. , 2006, , .		0
177	Adhesive Bonding of InP-InGaAsP Dies to Processed Silicon-On-Insulator Wafers using DVS-bis-Benzocyclobutene. <i>Journal of the Electrochemical Society</i> , 2006, 153, G1015.	2.9	110
178	Compact and efficient fibre-to-waveguide grating couplers in InP-membrane. <i>Electronics Letters</i> , 2006, 42, 343.	1.0	5
179	All-optical high speed NOR gate based on two photon absorption in silicon wire waveguides. , 2006, , .		2
180	Nonlinear self-distortion of picosecond optical pulses in silicon wire waveguides. , 2006, , .		1

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181	11.4 dB isolation on an amplifying AlGaInAs/InP optical waveguide isolator. , 2006, , .		1
182	Spectroscopy of the nonlinear refractive index of colloidal PbSe nanocrystals. Applied Physics Letters, 2006, 89, 193106.	3.3	33
183	Compact grating couplers between optical fibers and Silicon-on-Insulator photonic wire waveguides with 69% coupling efficiency. , 2006, , .		18
184	Experimental demonstration of adiabatic coupling into SOI photonic crystal coupled-cavity waveguides. , 2005, , .		2
185	Simple low-loss waveguide bends using ARROW effect. Applied Physics B: Lasers and Optics, 2005, 80, 745-748.	2.2	8
186	Recent progress in SOI nanophotonic waveguides. , 2005, , .		2
187	Ultra-thin benzocyclobutene bonding of III-V dies onto SOI substrate. Electronics Letters, 2005, 41, 561.	1.0	28
188	InP-nanocrystal monolayer deposition onto silicon-on-insulator structures. , 2005, , .		0
189	Efficient fiber to SOI photonic wire coupler fabricated using standard CMOS technology. , 2005, , .		5
190	Technologies for on-chip optical interconnects. , 2005, , .		3
191	Optical bistability analysis inside a two-bus ring resonator. , 2005, , .		0
192	Thin-film devices fabricated with benzocyclobutene adhesive wafer bonding. Journal of Lightwave Technology, 2005, 23, 517-523.	4.6	44
193	Coupling schemes for heterogeneous integration of III-V membrane devices and silicon-on-insulator waveguides. Journal of Lightwave Technology, 2005, 23, 3827-3831.	4.6	16
194	Modeling of a novel InP-based monolithically integrated magneto-optical waveguide isolator. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 261.	2.1	18
195	Ultrafast all-optical switching by cross-absorption modulation in silicon wire waveguides. Optics Express, 2005, 13, 7298.	3.4	120
196	Optical bistability and pulsating behaviour in Silicon-On-Insulator ring resonator structures. Optics Express, 2005, 13, 9623.	3.4	153
197	A compact photonic horizontal spot-size converter realized in silicon-on-insulator. IEEE Photonics Technology Letters, 2005, 17, 73-75.	2.5	22
198	Experimental results on adiabatic coupling into SOI photonic Crystal coupled-cavity waveguides. IEEE Photonics Technology Letters, 2005, 17, 1199-1201.	2.5	16

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199	Efficient silicon-on-insulator fiber coupler fabricated using 248-nm-deep UV lithography. IEEE Photonics Technology Letters, 2005, 17, 2613-2615.	2.5	115
200	Low-power thermo-optic tuning of vertically coupled microring resonators. Electronics Letters, 2004, 40, 560.	1.0	19
201	SOI nanophotonic waveguide structures fabricated with deep UV lithography. Photonics and Nanostructures - Fundamentals and Applications, 2004, 2, 81-86.	2.0	26
202	Low-Loss SOI Photonic Wires and Ring Resonators Fabricated With Deep UV Lithography. IEEE Photonics Technology Letters, 2004, 16, 1328-1330.	2.5	370
203	Low-Voltage High-Speed Travelling Wave InGaAsP-InP Phase Modulator. IEEE Photonics Technology Letters, 2004, 16, 1831-1833.	2.5	21
204	Basic structures for photonic integrated circuits in Silicon-on-insulator. Optics Express, 2004, 12, 1583.	3.4	247
205	Compact digitally tunable laser. IEEE Photonics Technology Letters, 2003, 15, 182-184.	2.5	23
206	Amplified spontaneous emission in index-guided multimodal waveguide structures. IEEE Journal of Quantum Electronics, 2003, 39, 1099-1105.	1.9	2
207	High-power digitally tunable laser with integrated star coupler. Electronics Letters, 2003, 39, 370.	1.0	5
208	Novel geometry for an integrated channel selector. IEEE Journal of Selected Topics in Quantum Electronics, 2002, 8, 1211-1214.	2.9	13
209	Comparison of integrated multi-wavelength and (widely) tunable edge-emitting laser diodes. Optical and Quantum Electronics, 2002, 34, 627-648.	3.3	4
210	Observation of WDM crosstalk in passive semiconductor waveguides. IEEE Photonics Technology Letters, 2001, 13, 457-459.	2.5	18
211	Monolithically integrated multi-wavelength laser by selective area growth with metal organic vapour phase epitaxy. Electronics Letters, 2001, 37, 296.	1.0	16
212	Packaged hybrid integrated phased-array multi-wavelength laser. Electronics Letters, 2000, 36, 434.	1.0	9
213	Computer aided design for integrated optical circuits: task flow and tools. , 0, , .		1
214	An integrated optical add/drop multiplexer in InP based on elliptic couplers and Bragg grating reflector. , 0, , .		1
215	Elimination of crosstalk in the common output amplifier of a multi-wavelength source by gain clamping. , 0, , .		2
216	Realisation of a phased-array multi-wavelength laser using hybridly integrated PICs. , 0, , .		0

#	ARTICLE	IF	CITATIONS
217	Multi quantum well (MQW) lasers at 1550 nm fabricated with a single epitaxial selective growth step by MOVPE without waveguide etching. , 0, , .		0
218	A method for detecting sub-wavelength features by means of a multimode waveguide and a mode splitting photonic IC. , 0, , .		1
219	Deep UV lithography for planar photonic crystal structures. , 0, , .		1
220	Wavelength-selective components in SOI photonic wires fabricated with deep UV lithography. , 0, , .		11
221	Low power thermo-optic tuning of vertically coupled InP microring resonators. , 0, , .		0
222	Integration of photonic functions in and with silicon. , 0, , .		1
223	Silicon-on-insulator platform for WDM-components. , 0, , .		3
224	Basic photonic wire components in silicon-on-insulator. , 0, , .		13
225	Ultrafast non-inverting wavelength conversion by cross-absorption modulation in silicon wire waveguides. , 0, , .		3
226	Silicon-on-insulator platform for integrated wavelength-selective components. , 0, , .		7
227	Silicon-on-insulator based nano-photonics: Why, How, What for?. , 0, , .		13
228	InP on Silicon Electrically Driven Microdisk Lasers for Photonic ICs. , 0, , .		2