

O'Faolain Liam

List of Publications by Year in descending order

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224
papers

6,725
citations

66315

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62565

80
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228
all docs

228
docs citations

228
times ranked

4385
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of System Embedded Optical Interconnect in Sub-Top-of-Rack Data Center Systems. Applied Sciences (Switzerland), 2022, 12, 1565.	1.3	3
2	A dual-functionality metalens to shape a circularly polarized optical vortex or a second-order cylindrical vector beam. Photonics and Nanostructures - Fundamentals and Applications, 2021, 43, 100898.	1.0	9
3	Q-factor enhancement in photonic crystal cavities based on trapezoidal slotted nano-sticks for refractive index sensing. , 2021, , .		0
4	Study of the Effects of Cavity Mode Spacing on Mode-Hopping in III-V/Si Hybrid Photonic Crystal Lasers. Crystals, 2021, 11, 848.	1.0	0
5	Tuning of Graphene-Based Optical Devices Operating in the Near-Infrared. Applied Sciences (Switzerland), 2021, 11, 8367.	1.3	12
6	Electromagnetically induced transparency from first-order dynamical systems. Physical Review B, 2021, 104, .	1.1	5
7	Silicon Photonic Micro-Transceivers for Beyond 5G Environments. Applied Sciences (Switzerland), 2021, 11, 10955.	1.3	2
8	Thermo-optically induced transparency on a photonic chip. Light: Science and Applications, 2021, 10, 240.	7.7	10
9	Edge-Coupling of O-Band InP Etched-Facet Lasers to Polymer Waveguides on SOI by Micro-Transfer-Printing. IEEE Journal of Quantum Electronics, 2020, 56, 1-8.	1.0	8
10	Hybrid External Cavity Laser with an Amorphous Silicon-Based Photonic Crystal Cavity Mirror. Applied Sciences (Switzerland), 2020, 10, 240.	1.3	9
11	Long cavity photonic crystal laser in FDML operation using an akinetic reflective filter. Optics Express, 2020, 28, 38813.	1.7	5
12	Optimizing an interleaved p-n junction to reduce energy dissipation in silicon slow-light modulators. Photonics Research, 2020, 8, 457.	3.4	7
13	Optical reflection from a free-carrier-induced front in a silicon slow light waveguide. , 2020, , .		0
14	Hyperscale Integrated Optical and Photonic Interconnect Platform. , 2020, , .		4
15	ODX: A Fitness Tracker-Based Device for Continuous Bacterial Growth Monitoring. Analytical Chemistry, 2019, 91, 12329-12335.	3.2	9
16	Slow light with interleaved p-n junction to enhance performance of integrated Mach-Zehnder silicon modulators. Nanophotonics, 2019, 8, 1485-1494.	2.9	14
17	Subwavelength grating-based spiral metalens for tight focusing of laser light. Applied Physics Letters, 2019, 114, .	1.5	19
18	Hybrid lasers using CMOS compatible nanostructures. , 2019, , .		1

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19	Demonstration of Intensity Modulation in Hybrid Photonic Crystal Laser. , 2019, , .		0
20	Slow Light to Reduce the Energy Dissipation of Mach-Zehnder Modulators in Silicon Photonics. , 2019, , .		0
21	Front-induced intraband indirect photonic transition in slow-light waveguide. , 2019, , .		1
22	Slow-Light Modulators in Silicon Waveguides Gratings. , 2019, , .		0
23	Coupled Photonic Crystal Cavity Architecture for Intensity Modulation. , 2019, , .		0
24	Reflection from a free carrier front via an intraband indirect photonic transition. Nature Communications, 2018, 9, 1447.	5.8	20
25	Tunable Optical Buffer through an Analogue to Electromagnetically Induced Transparency in Coupled Photonic Crystal Cavities. ACS Photonics, 2018, 5, 1827-1832.	3.2	23
26	Design of a Photonic Crystal Defect Waveguide Biosensor Operating in Aqueous Solutions at 1.34 μm . Proceedings (mdpi), 2018, 2, 1026.	0.2	4
27	Direct Frequency Modulated Photonic Crystal Laser. , 2018, , .		0
28	Slow Light in Waveguide Gratings on Silicon-on-Insulator Platform. , 2018, , .		1
29	Optimizing band-edge slow light in silicon-on-insulator waveguide gratings. Optics Express, 2018, 26, 8470.	1.7	13
30	Wavelength stability in a hybrid photonic crystal laser through controlled nonlinear absorptive heating in the reflector. Light: Science and Applications, 2018, 7, 39.	7.7	24
31	Indirect transitions at a free carrier front in a silicon slow light waveguide. , 2018, , .		4
32	Realization of a flat-band superprism on-chip from parallelogram lattice photonic crystals. Optics Letters, 2018, 43, 4981.	1.7	6
33	Controllable low-loss slow light in photonic crystals. , 2018, , .		1
34	Tight focusing of a nonhomogeneously polarized optical vortex. , 2018, , .		0
35	Frequency modulated external cavity laser with photonic crystal resonator and microheater. , 2018, , .		0
36	Subwavelength focusing of azimuthally polarized optical vortex. , 2018, , .		0

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37	Tight focusing of laser light propagated through subwavelength micropolarizer using Fresnel zone plate. , 2017, , .		0
38	Photonic crystal cavities for optical interconnects. , 2017, , 121-156.		1
39	Subwavelength gratings for polarization conversion and focusing of laser light. Photonics and Nanostructures - Fundamentals and Applications, 2017, 27, 32-41.	1.0	30
40	Athermal hybrid laser. , 2017, , .		0
41	Subwavelength focusing of laser light using zone plates with silver and chromium rings. , 2017, , .		1
42	Dependence of the focal spot parameters on the relief height of the amplitude zone plate. , 2017, , .		2
43	Photonic crystal slow light waveguides in a kagome lattice. Optics Letters, 2017, 42, 3243.	1.7	50
44	Transmission and reflection from a free carrier front in a silicon slow light waveguide. , 2017, , .		3
45	Silicon photonic transceivers for beyond 1-Tb/s datacom applications (Conference Presentation). , 2017, , .		1
46	Azimuthal polarizer with phase shift for subwavelength focusing of laser light. , 2016, , .		0
47	Compact external cavity laser with photonic crystal cavity reflector. , 2016, , .		1
48	All-optical analog to electromagnetic induced transparency effects based on vertical coupling photonic crystal cavities. , 2016, , .		0
49	Compact III-V/silicon external cavity laser configuration with photonic crystal cavity reflector for direct frequency modulation. , 2016, , .		0
50	Hybrid photonic crystal lasers. , 2016, , .		0
51	Control of Q-factor in nanobeam cavities on substrate. , 2016, , .		4
52	Electro-optic modulation in bulk silicon using surface plasmon resonance. Photonics and Nanostructures - Fundamentals and Applications, 2016, 18, 31-35.	1.0	3
53	Efficient coupling to slow light photonic crystal waveguide. , 2016, , .		0
54	Wavelength-controlled external-cavity laser with a silicon photonic crystal resonant reflector. Proceedings of SPIE, 2016, , .	0.8	1

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55	Lithographic wavelength control of an external cavity laser with a silicon photonic crystal cavity-based resonant reflector. Optics Letters, 2016, 41, 894.	1.7	26
56	Subwavelength gratings for generating azimuthally polarized beams. , 2016, , .		1
57	High-Q photonic crystal cavities realised using deep ultraviolet lithography. Electronics Letters, 2015, 51, 1277-1279.	0.5	5
58	Toolkit for Photonic Integrated Circuits Based on Inverted Rib Waveguides. Journal of Lightwave Technology, 2015, 33, 4145-4150.	2.7	5
59	Tight focus of light using micropolarizer and microlens. Applied Optics, 2015, 54, 4388.	0.9	24
60	Four-zone reflective polarization conversion plate. , 2015, , .		0
61	Dynamic frequency shift in photonic crystal resonators and slow light waveguides. , 2015, , .		1
62	Extraction of group index of lossy photonic crystal waveguides. Optics Letters, 2015, 40, 193.	1.7	4
63	External-cavity hybrid laser with silicon photonic crystal cavity-based resonant reflector. , 2015, , .		1
64	Indirect transitions of a signal interacting with a moving refractive index front. , 2014, , .		0
65	High Q photonic crystal cavities realised using Deep Ultraviolet Lithography. , 2014, , .		0
66	Resonant coupling of erbium ions to optical modes in silicon photonic crystal cavities. , 2014, , .		0
67	Silicon photonic crystals: light emission, modulation and detection. , 2014, , .		0
68	Planar surface implanted diffractive grating couplers in SOI. Optics Express, 2014, 22, 1077.	1.7	26
69	Hydrogen induced optically-active defects in silicon photonic nanocavities. Optics Express, 2014, 22, 8843.	1.7	7
70	Experimental high numerical aperture focusing with high contrast gratings: publisher's note. Optics Letters, 2014, 39, 825.	1.7	0
71	Focusing with planar microlenses made of two-dimensionally varying high contrast gratings. Optical Engineering, 2014, 53, 095104.	0.5	4
72	Characterization of planar microlenses made of high contrast gratings. Proceedings of SPIE, 2014, , .	0.8	2

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73	Silicon on insulator optical modulators for integration in photonic optical circuits. Proceedings of SPIE, 2014, , .	0.8	0
74	Optically Induced Indirect Photonic Transitions in a Slow Light Photonic Crystal Waveguide. Physical Review Letters, 2014, 112, 053904.	2.9	45
75	Integrated optical auto-correlator based on third-harmonic generation in a silicon photonic crystal waveguide. Nature Communications, 2014, 5, 3246.	5.8	79
76	Experimental demonstration of original optical filter based on multiply coupled waveguides. Optics Letters, 2014, 39, 3627.	1.7	8
77	Silicon photonics for optical interconnects. , 2014, , .		0
78	Locally Erasable Couplers for Optical Device Testing in Silicon on Insulator. Journal of Lightwave Technology, 2014, 32, 2248-2253.	2.7	26
79	Erasable diffractive grating couplers in silicon on insulator for wafer scale testing. , 2014, , .		1
80	Indirect transitions of a signal interacting with a moving refractive index front. , 2014, , .		0
81	Dielectric waveguide vertically coupled to all-silicon photodiodes operating at telecommunication wavelengths. Applied Physics Letters, 2013, 102, .	1.5	28
82	Subwavelength focusing of laser light by microoptics. Journal of Modern Optics, 2013, 60, 1050-1059.	0.6	17
83	Photonic crystal nanocavities in GaAs/AlGaAs with oxidised bottom cladding. Photonics and Nanostructures - Fundamentals and Applications, 2013, 11, 139-144.	1.0	10
84	Optical modulation using the silicon platform. Proceedings of SPIE, 2013, , .	0.8	0
85	All-optical dynamic frequency conversion in silicon photonic crystals. , 2013, , .		1
86	Microscopic investigations of advanced thin films for photonics. Journal of Physics: Conference Series, 2013, 471, 012004.	0.3	0
87	Room temperature all-silicon photonic crystal nanocavity light emitting diode at sub-bandgap wavelengths. Laser and Photonics Reviews, 2013, 7, 114-121.	4.4	67
88	Highly efficient optical filter based on vertically coupled photonic crystal cavity and bus waveguide. Optics Letters, 2013, 38, 154.	1.7	48
89	Enhanced 154 nm emission in Y-Er disilicate thin films on silicon photonic crystal cavities. Optics Express, 2013, 21, 10278.	1.7	21
90	Experimental high numerical aperture focusing with high contrast gratings. Optics Letters, 2013, 38, 3410.	1.7	55

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91	Analysis of the shape of a subwavelength focal spot for the linearly polarized light. Applied Optics, 2013, 52, 330.	0.9	60
92	Room temperature electrically pumped silicon nano-light source at telecommunication wavelengths. Proceedings of SPIE, 2013, , .	0.8	0
93	Scalable optical transmitter and receiver based on cascaded nanoresonator modulators and multiwavelength laser. , 2013, , .		1
94	Low insertion loss modulator based on a vertically coupled photonic crystal resonator. , 2012, , .		1
95	Highly efficient coupling between a monolithically integrated photonic crystal cavity and a bus waveguide. , 2012, , .		0
96	Cascaded modulator architecture for WDM applications. Optics Express, 2012, 20, 27420.	1.7	70
97	Four-wave mixing in slow light photonic crystal waveguides with very high group index. Optics Express, 2012, 20, 17474.	1.7	24
98	Mid-infrared photonic crystal waveguides in silicon. Optics Express, 2012, 20, 29361.	1.7	56
99	Highly efficient coupling between a nanocavity and monolithic bus waveguide. , 2012, , .		0
100	Disorder model of photonic-crystal waveguides: fast to slow light transition. Proceedings of SPIE, 2012, , .	0.8	0
101	Fabrication And Characterization Of Photonic Crystal Slow Light Waveguides And Cavities. Journal of Visualized Experiments, 2012, , e50216.	0.2	7
102	Ultra-compact integrated optical auto-correlator based on third-harmonic generation in Si photonic crystal waveguides. , 2012, , .		0
103	High Speed Silicon based optical modulators. , 2012, , .		0
104	Novel Dispersion-Adapted Photonic Crystal Cavity With Improved Disorder Stability. IEEE Journal of Quantum Electronics, 2012, 48, 1177-1183.	1.0	32
105	Low insertion loss Nanocavity optical modulators. , 2012, , .		0
106	Integrated optical auto-correlator based on THG in a silicon photonic crystal waveguide. , 2012, , .		0
107	Novel photonic crystal nanocavity design with high tolerance to disorder. , 2012, , .		0
108	Photonic Crystal Cavity Based WDM Components. , 2012, , .		0

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109	Electrical transport and depletion region in dry-etched Si-based nanostructures. Semiconductor Science and Technology, 2012, 27, 045016.	1.0	1
110	Characteristics of Correlated Photon Pairs Generated in Ultracompact Silicon Slow-Light Photonic Crystal Waveguides. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1676-1683.	1.9	23
111	High performance silicon optical modulators. Proceedings of SPIE, 2012, , .	0.8	0
112	Low loss propagation in slow light photonic crystal waveguides at group indices up to 60. Photonics and Nanostructures - Fundamentals and Applications, 2012, 10, 589-593.	1.0	30
113	Enhancement of room temperature sub-bandgap light emission from silicon photonic crystal nanocavity by Purcell effect. Physica B: Condensed Matter, 2012, 407, 4027-4031.	1.3	17
114	Enhancing Optical Functionalities of Silicon with Photonic Crystal Nanocavities. , 2012, , .		0
115	Ultra-compact integrated optical auto-correlator based on third-harmonic generation in Si photonic crystal waveguides. , 2012, , .		0
116	Nonlinear optics in Silicon photonic crystal cavities. , 2011, , .		1
117	Slowlight enhanced photonic crystal modulators. , 2011, , .		2
118	Deliberate versus intrinsic disorder in photonic crystal nanocavities investigated by resonant light scattering. Physical Review B, 2011, 84, .	1.1	39
119	Improved CAR and noise analysis for photon-pair generation in an ultra-compact silicon slow-light photonic crystal waveguide. , 2011, , .		1
120	Fabrication of low loss dispersion engineered chalcogenide photonic crystals. Optics Express, 2011, 19, 1991.	1.7	10
121	Four-wave mixing in photonic crystal waveguides: slow light enhancement and limitations. Optics Express, 2011, 19, 4458.	1.7	95
122	Ultracompact 160 Gbaud all-optical demultiplexing exploiting slow light in an engineered silicon photonic crystal waveguide. Optics Letters, 2011, 36, 1728.	1.7	32
123	Third-harmonic generation in slow-light chalcogenide glass photonic crystal waveguides. Optics Letters, 2011, 36, 2818.	1.7	28
124	Tight focusing with a binary microaxicon. Optics Letters, 2011, 36, 3100.	1.7	29
125	Slow-light enhanced correlated photon pair generation in a silicon photonic crystal waveguide. Optics Letters, 2011, 36, 3413.	1.7	130
126	Third-harmonic generation in engineered slow light photonic crystal waveguides in chalcogenide glasses. , 2011, , .		0

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127	Evidence of guided resonances in photonic quasicrystal slabs. Physical Review B, 2011, 84, .	1.1	27
128	Miniaturised and low power switches and modulators based on slow light photonic crystal waveguides. , 2011, , .		0
129	Nonlinear optics in silicon photonic crystal nanocavities. , 2011, , .		0
130	Light generation in silicon photonic crystal cavities. , 2011, , .		0
131	Room-temperature emission at telecom wavelengths from silicon photonic crystal nanocavities. Applied Physics Letters, 2011, 98, 201106.	1.5	60
132	Subbandgap photoluminescence of Si photonic crystal nanocavity at room temperature. , 2011, , .		0
133	Photoluminescence spectroscopy of silicon photonic crystal nanocavities. , 2011, , .		0
134	Low-power continuous-wave frequency conversion in far-field optimized silicon photonic crystal nanocavities. , 2011, , .		0
135	Low-power continuous-wave generation of second- and third-harmonic light in silicon photonic crystal nanocavities. , 2011, , .		0
136	Ultra-compact, slow light enhanced, 160Gbaud de-multiplexing in a silicon photonic crystal waveguide. , 2011, , .		0
137	Correlated Photon-Pair Generation in an Ultra-Compact Silicon Photonic Crystal Waveguide. , 2011, , .		0
138	Correlated Photon-Pair Generation in an Ultra-Compact Silicon Photonic Crystal Waveguide. , 2011, , .		0
139	Four-wave mixing in short silicon slow-light engineered photonic crystal waveguides. , 2011, , .		0
140	Enhanced Light Emission from Silicon using Photonic Crystal Nanocavities. , 2011, , .		0
141	Correlated Photon-Pair Generation in an Ultra-Compact Silicon Photonic Crystal Waveguide. , 2011, , .		0
142	Germanium implanted Bragg gratings in silicon on insulator waveguides. Proceedings of SPIE, 2010, , .	0.8	4
143	Waveguide-based optofluidics. Proceedings of SPIE, 2010, , .	0.8	3
144	The UK silicon photonics project. Proceedings of SPIE, 2010, , .	0.8	1

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145	Nanometre control and determination of hole size in photonic crystal slabs. , 2010, , .		0
146	Understanding the rich physics of light propagation in slow photonic crystal waveguides. , 2010, , .		3
147	Dispersion engineered slow light in photonic crystals: a comparison. Journal of Optics (United Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.0	186
148	Broadband Mirrors in the Near-Infrared Based on Subwavelength Gratings in SOI. IEEE Photonics Journal, 2010, 2, 696-702.	1.0	40
149	Slow Light Enhanced Nonlinear Optics in Silicon Photonic Crystal Waveguides. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 344-356.	1.9	132
150	Photonic Crystal Formed by the Imaginary Part of the Refractive Index. Advanced Materials, 2010, 22, 2676-2679.	11.1	23
151	Investigation of slow light enhanced nonlinear transmission for all-optical regeneration in silicon photonic crystal waveguides at 10Gbit/s. Photonics and Nanostructures - Fundamentals and Applications, 2010, 8, 67-71.	1.0	5
152	Controlling the delay of 100 Gb/s polarization division multiplexed signals through silicon photonics delay lines. , 2010, , .		2
153	Undertaking research in the field of silicon optical modulators in the framework of the Helios and UK silicon photonics projects. , 2010, , .		0
154	Slow-light enhanced optical signal processing on a silicon chip at 640Gb/s. , 2010, , .		0
155	Planar photonic crystal cavities with far-field optimization for high coupling efficiency and quality factor. Optics Express, 2010, 18, 16064.	1.7	139
156	Four-wave mixing in slow light engineered silicon photonic crystal waveguides. Optics Express, 2010, 18, 22915.	1.7	134
157	Low-power continuous-wave generation of visible harmonics in silicon photonic crystal nanocavities. Optics Express, 2010, 18, 26613.	1.7	113
158	Loss engineered slow light waveguides. Optics Express, 2010, 18, 27627.	1.7	182
159	Nonlinear loss dynamics in a silicon slow-light photonic crystal waveguide. Optics Letters, 2010, 35, 1073.	1.7	12
160	Experimental evidence of guided-resonances in photonic crystals with aperiodically ordered supercells. Optics Letters, 2010, 35, 3946.	1.7	17
161	Compact Optical Switches and Modulators Based on Dispersion Engineered Photonic Crystals. IEEE Photonics Journal, 2010, 2, 404-414.	1.0	90
162	Tunable Delay Lines in Silicon Photonics: Coupled Resonators and Photonic Crystals, a Comparison. IEEE Photonics Journal, 2010, 2, 181-194.	1.0	177

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163	Slow-light based optical signal processing at 640Gb/s. , 2010, , .		0
164	Dynamics of Nonlinear Loss in a Silicon Slow Light Photonic Crystal Waveguide. , 2010, , .		0
165	Thermo-Optic Stabilization of Optofluidic Photonic Crystal Resonators. , 2009, , .		0
166	Ultracompact switches and modulators based on slow light in photonic crystals. , 2009, , .		0
167	Optical performance monitoring at 160Gb/s via slow light enhanced third-harmonic generation in silicon photonic crystal waveguides. , 2009, , .		0
168	Slow-light enhanced nonlinear transfer function for 2R regeneration in 2D silicon photonic crystals at 10 Gb/s. , 2009, , .		0
169	Temperature stabilization of optofluidic photonic crystal cavities. Applied Physics Letters, 2009, 94, 231114.	1.5	32
170	Losses in engineered slow light photonic crystal waveguides. , 2009, , .		0
171	Chemical sensing in slotted photonic crystal heterostructure cavities. Applied Physics Letters, 2009, 94, .	1.5	258
172	Green light emission in silicon through slow-light enhanced third-harmonic generation in photonic-crystal waveguides. Nature Photonics, 2009, 3, 206-210.	15.6	503
173	Demonstration of an integrated optical switch in a silicon photonic crystal directional coupler. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 41, 1111-1114.	1.3	21
174	Accurate determination of hole sizes in photonic crystal slabs using an optical measurement. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 41, 1115-1117.	1.3	5
175	Optical filter with very large stopband (~ 300 nm) based on a photonic-crystal vertical-directional coupler. Optics Letters, 2009, 34, 3292.	1.7	18
176	Slow light enhancement of nonlinear effects in silicon engineered photonic crystal waveguides. Optics Express, 2009, 17, 2944.	1.7	221
177	High-speed modulation of a compact silicon ring resonator based on a reverse-biased pn diode. Optics Express, 2009, 17, 21986.	1.7	162
178	Photonic crystal lens for coupling two waveguides. Applied Optics, 2009, 48, 3722.	2.1	31
179	Ultrashort Photonic Crystal Optical Switch Actuated by a Microheater. IEEE Photonics Technology Letters, 2009, 21, 24-26.	1.3	50
180	Light scattering and Fano resonances in high-Q photonic crystal nanocavities. Applied Physics Letters, 2009, 94, .	1.5	250

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181	Disorder-induced incoherent scattering losses in photonic crystal waveguides: Bloch mode reshaping, multiple scattering, and breakdown of the Beer-Lambert law. <i>Physical Review B</i> , 2009, 80, .	1.1	66
182	Dispersion engineered photonic crystal waveguides for linear and non-linear applications. , 2009, , .		0
183	Reconfigurable optofluidic silicon-based photonic crystal components. <i>Proceedings of SPIE</i> , 2009, , .	0.8	0
184	Slotted Photonic Crystal Devices: Slow Light and Applications. , 2009, , .		1
185	Photonic crystal slotted slab waveguides. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2008, 6, 38-41.	1.0	63
186	Accurate determination of the functional hole size in photonic crystal slabs using optical methods. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2008, 6, 213-218.	1.0	40
187	Ultracompact and low-power optical switch based on silicon photonic crystals. <i>Optics Letters</i> , 2008, 33, 147.	1.7	216
188	High-Q microfluidic cavities in silicon-based two-dimensional photonic crystal structures. <i>Optics Letters</i> , 2008, 33, 2206.	1.7	47
189	Photonic crystal laser with mode selective mirrors. <i>Optics Express</i> , 2008, 16, 1365.	1.7	15
190	Systematic design of flat band slow light in photonic crystal waveguides. <i>Optics Express</i> , 2008, 16, 6227.	1.7	517
191	Reconfigurable microfluidic photonic crystal slab cavities. <i>Optics Express</i> , 2008, 16, 15887.	1.7	65
192	Silica-embedded silicon photonic crystal waveguides. <i>Optics Express</i> , 2008, 16, 17076.	1.7	73
193	Microfluidic cavities in silicon-based photonic crystal slab waveguides. , 2008, , .		0
194	Dispersion control and slow light in slotted photonic crystal waveguides. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	115
195	Slotted photonic crystal waveguides and cavities for slow light and sensing applications. , 2008, , .		5
196	Reconfigurable silicon-based photonic crystal components using microfluidics. , 2008, , .		0
197	Enhanced nonlinear self-phase modulation in engineered slow light silicon photonic crystal waveguides. , 2008, , .		0
198	Enhanced light extraction efficiency from AlGaInP thin-film light-emitting diodes with photonic crystals. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	30

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199	Slow light for switching and nonlinear effects in SOI. , 2008, , .		1
200	Dynamics of a two-state quantum dot laser with saturable absorber. Applied Physics Letters, 2007, 90, 121113.	1.5	22
201	Recent Advances in Polymer Lasers and Optical Amplifiers. , 2007, , .		0
202	Broadband and low loss slow light in SOI photonic crystal waveguides. , 2007, , .		0
203	Self-collimating photonic crystal polarization beam splitter. Optics Letters, 2007, 32, 530.	1.7	151
204	Dependence of extrinsic loss on group velocity in photonic crystal waveguides. Optics Express, 2007, 15, 13129.	1.7	134
205	Direct measurement of the group index of photonic crystal waveguides via Fourier transform spectral interferometry. Applied Physics Letters, 2007, 90, 261107.	1.5	62
206	Compact Focusing Grating Couplers for Silicon-on-Insulator Integrated Circuits. IEEE Photonics Technology Letters, 2007, 19, 1919-1921.	1.3	214
207	Shot shifting for nanophotonic applications. Microelectronic Engineering, 2007, 84, 1463-1466.	1.1	2
208	3D photonic crystals based on epitaxial III-V semiconductor structures for nonlinear optical interactions. , 2006, , .		3
209	Investigation of transition dynamics in a quantum-dot laser optically pumped by femtosecond pulses. Applied Physics Letters, 2006, 88, 041101.	1.5	25
210	Low Loss and Slow Light Photonic Crystal Waveguides in SOI. , 2006, , .		0
211	Reduced surface sidewall recombination and diffusion in quantum-dot lasers. IEEE Photonics Technology Letters, 2006, 18, 1861-1863.	1.3	42
212	Cross-Correlation Timing Jitter Measurement of High Power Passively Mode-Locked Two-Section Quantum-Dot Lasers. IEEE Photonics Technology Letters, 2006, 18, 2317-2319.	1.3	18
213	Diode pumped distributed Bragg reflector lasers based on a dye-to-polymer energy transfer blend. Optics Express, 2006, 14, 9211.	1.7	88
214	Fabrication of photonic crystals using a spin-coated hydrogen silsesquioxane hard mask. Journal of Vacuum Science & Technology B, 2006, 24, 336.	1.3	19
215	Low-loss propagation in photonic crystal waveguides. Electronics Letters, 2006, 42, 1454.	0.5	90
216	Integrated chirp compensation in a monolithic passively mode-locked semiconductor diode laser. Applied Physics Letters, 2005, 86, 221104.	1.5	3

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217	Electrooptic tuning of InP-based microphotonic Fabry-Perot filters. <i>Journal of Lightwave Technology</i> , 2005, 23, 2169-2174.	2.7	14
218	Kerr-effect-induced passive Q switching of a monolithic semiconductor diode laser. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005, 22, 792.	0.9	2
219	Compact polarization converter in InP-based material. <i>Optics Express</i> , 2005, 13, 5040.	1.7	50
220	Electrically tunable multiquantum-well InGaAsP-InGaAsP microphotonic filter. <i>IEEE Photonics Technology Letters</i> , 2005, 17, 837-839.	1.3	10
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