

Thomas F Krauss

List of Publications by Year in descending order

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275
papers

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citations

10351

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13338

130
g-index

278
all docs

278
docs citations

278
times ranked

11269
citing authors

#	ARTICLE	IF	CITATIONS
1	Silicon nanostructures for photonics and photovoltaics. Nature Nanotechnology, 2014, 9, 19-32.	15.6	802
2	Two-dimensional photonic-bandgap structures operating at near-infrared wavelengths. Nature, 1996, 383, 699-702.	13.7	723
3	Why do we need slow light?. Nature Photonics, 2008, 2, 448-450.	15.6	565
4	Slow light in photonic crystal waveguides. Journal Physics D: Applied Physics, 2007, 40, 2666-2670.	1.3	560
5	Systematic design of flat band slow light in photonic crystal waveguides. Optics Express, 2008, 16, 6227.	1.7	517
6	An out-of-plane grating coupler for efficient butt-coupling between compact planar waveguides and single-mode fibers. IEEE Journal of Quantum Electronics, 2002, 38, 949-955.	1.0	513
7	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
8	Photonic crystals in the optical regime "past, present and future. Progress in Quantum Electronics, 1999, 23, 51-96.	3.5	435
9	Real-Space Observation of Ultraslow Light in Photonic Crystal Waveguides. Physical Review Letters, 2005, 94, 073903.	2.9	430
10	Light extraction from optically pumped light-emitting diode by thin-slab photonic crystals. Applied Physics Letters, 1999, 75, 1036-1038.	1.5	326
11	Compact and Highly Efficient Grating Couplers Between Optical Fiber and Nanophotonic Waveguides. Journal of Lightwave Technology, 2007, 25, 151-156.	2.7	316
12	Spontaneous emission extraction and Purcell enhancement from thin-film 2-D photonic crystals. Journal of Lightwave Technology, 1999, 17, 2096-2112.	2.7	260
13	Chemical sensing in slotted photonic crystal heterostructure cavities. Applied Physics Letters, 2009, 94, .	1.5	258
14	Light scattering and Fano resonances in high-Q photonic crystal nanocavities. Applied Physics Letters, 2009, 94, .	1.5	250
15	Integrated spatial multiplexing of heralded single-photon sources. Nature Communications, 2013, 4, 2582.	5.8	228
16	Slow light enhancement of nonlinear effects in silicon engineered photonic crystal waveguides. Optics Express, 2009, 17, 2944.	1.7	221
17	Ultracompact and low-power optical switch based on silicon photonic crystals. Optics Letters, 2008, 33, 147.	1.7	216
18	Optical vortex trap for resonant confinement of metal nanoparticles. Optics Express, 2008, 16, 4991.	1.7	213

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19	Optical and confinement properties of two-dimensional photonic crystals. Journal of Lightwave Technology, 1999, 17, 2063-2077.	2.7	210
20	Deterministic quasi-random nanostructures for photon control. Nature Communications, 2013, 4, 2665.	5.8	210
21	Radiation losses of waveguide-based two-dimensional photonic crystals: Positive role of the substrate. Applied Physics Letters, 2000, 76, 532-534.	1.5	204
22	Quantitative Measurement of Transmission, Reflection, and Diffraction of Two-Dimensional Photonic Band Gap Structures at Near-Infrared Wavelengths. Physical Review Letters, 1997, 79, 4147-4150.	2.9	196
23	Dispersion engineered slow light in photonic crystals: a comparison. Journal of Optics (United Kingdom), 2007, 10, 074001.	1.0	186
24	Loss engineered slow light waveguides. Optics Express, 2010, 18, 27627.	1.7	182
25	Tunable Delay Lines in Silicon Photonics: Coupled Resonators and Photonic Crystals, a Comparison. IEEE Photonics Journal, 2010, 2, 181-194.	1.0	177
26	Low-loss channel waveguides with two-dimensional photonic crystal boundaries. Applied Physics Letters, 2000, 77, 2813-2815.	1.5	176
27	Slotted photonic crystal cavities with integrated microfluidics for biosensing applications. Biosensors and Bioelectronics, 2011, 27, 101-105.	5.3	174
28	Miniband transmission in a photonic crystal coupled-resonator optical waveguide. Optics Letters, 2001, 26, 1019.	1.7	167
29	Flatband slow light in photonic crystals featuring spatial pulse compression and terahertz bandwidth. Optics Express, 2007, 15, 219.	1.7	163
30	High-speed modulation of a compact silicon ring resonator based on a reverse-biased pn diode. Optics Express, 2009, 17, 21986.	1.7	162
31	All-optical control of microfluidic components using form birefringence. Nature Materials, 2005, 4, 530-533.	13.3	161
32	Y junctions in photonic crystal channel waveguides: high transmission and impedance matching. Optics Letters, 2002, 27, 1001.	1.7	153
33	Self-collimating photonic crystal polarization beam splitter. Optics Letters, 2007, 32, 530.	1.7	151
34	Observation of soliton compression in silicon photonic crystals. Nature Communications, 2014, 5, 3160.	5.8	150
35	Mini-stopbands of a one-dimensional system: The channel waveguide in a two-dimensional photonic crystal. Physical Review B, 2001, 63, .	1.1	142
36	Surface recombination measurements on III-V candidate materials for nanostructure light-emitting diodes. Journal of Applied Physics, 2000, 87, 3497-3504.	1.1	139

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37	Planar photonic crystal cavities with far-field optimization for high coupling efficiency and quality factor. Optics Express, 2010, 18, 16064.	1.7	139
38	Beam steering in planar-photonic crystals: from superprism to supercollimator. Journal of Lightwave Technology, 2003, 21, 561-566.	2.7	138
39	Optical signal processing on a silicon chip at 640Gb/s using slow-light. Optics Express, 2010, 18, 7770.	1.7	138
40	Coupling into slow-mode photonic crystal waveguides. Optics Letters, 2007, 32, 2638.	1.7	137
41	Photonic crystal resonances for sensing and imaging. Journal of Optics (United Kingdom), 2018, 20, 073004.	1.0	137
42	Dependence of extrinsic loss on group velocity in photonic crystal waveguides. Optics Express, 2007, 15, 13129.	1.7	134
43	Four-wave mixing in slow light engineered silicon photonic crystal waveguides. Optics Express, 2010, 18, 22915.	1.7	134
44	Resonant coupling of near-infrared radiation to photonic band structure waveguides. Journal of Lightwave Technology, 1999, 17, 2050-2057.	2.7	131
45	Slow-light enhanced correlated photon pair generation in a silicon photonic crystal waveguide. Optics Letters, 2011, 36, 3413.	1.7	130
46	Dispersion control and slow light in slotted photonic crystal waveguides. Applied Physics Letters, 2008, 92, .	1.5	115
47	Low-power continuous-wave generation of visible harmonics in silicon photonic crystal nanocavities. Optics Express, 2010, 18, 26613.	1.7	113
48	Diffraction and transmission of light in low-refractive index Penrose-tiled photonic quasicrystals. Journal of Physics Condensed Matter, 2001, 13, 10459-10470.	0.7	111
49	Superprism phenomena in planar photonic crystals. IEEE Journal of Quantum Electronics, 2002, 38, 915-918.	1.0	109
50	Coupled-mode theory and propagation losses in photonic crystal waveguides. Optics Express, 2003, 11, 1490.	1.7	106
51	Optical deflection and sorting of microparticles in a near-field optical geometry. Optics Express, 2008, 16, 3712.	1.7	105
52	Nonlinear propagation effects in an AlGaAs Bragg grating filter. Optics Letters, 1999, 24, 685.	1.7	104
53	Mode structure of the L3 photonic crystal cavity. Applied Physics Letters, 2007, 90, 241117.	1.5	99
54	CW operation of semiconductor ring lasers. Electronics Letters, 1990, 26, 2095.	0.5	98

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55	Coupled guide and cavity in a two-dimensional photonic crystal. Applied Physics Letters, 2001, 78, 1487-1489.	1.5	96
56	Four-wave mixing in photonic crystal waveguides: slow light enhancement and limitations. Optics Express, 2011, 19, 4458.	1.7	95
57	Engineering gratings for light trapping in photovoltaics: The supercell concept. Physical Review B, 2012, 86, .	1.1	95
58	Planar photonic crystal waveguide devices for integrated optics. Physica Status Solidi A, 2003, 197, 688-702.	1.7	92
59	Enhanced phonon-assisted absorption in single InAs/GaAs quantum dots. Physical Review B, 2001, 63, .	1.1	90
60	Low-loss propagation in photonic crystal waveguides. Electronics Letters, 2006, 42, 1454.	0.5	90
61	Direct Observation of Bloch Harmonics and Negative Phase Velocity in Photonic Crystal Waveguides. Physical Review Letters, 2005, 94, 123901.	2.9	89
62	On Metalenses with Arbitrarily Wide Field of View. ACS Photonics, 2020, 7, 2073-2079.	3.2	89
63	Diode pumped distributed Bragg reflector lasers based on a dye-to-polymer energy transfer blend. Optics Express, 2006, 14, 9211.	1.7	88
64	Exploring light propagating in photonic crystals with Fourier optics. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 2964.	0.9	85
65	Coupled photonic crystal heterostructure nanocavities. Optics Express, 2007, 15, 1228.	1.7	83
66	Slotted Photonic Crystal Sensors. Sensors, 2013, 13, 3675-3710.	2.1	83
67	Electro-optic modulation in slotted resonant photonic crystal heterostructures. Applied Physics Letters, 2009, 94, .	1.5	82
68	Integrated optical auto-correlator based on third-harmonic generation in a silicon photonic crystal waveguide. Nature Communications, 2014, 5, 3246.	5.8	79
69	Enhanced energy storage in chaotic optical resonators. Nature Photonics, 2013, 7, 473-478.	15.6	77
70	Ultrafast nonlinear response of AlGaAs two-dimensional photonic crystal waveguides. Applied Physics Letters, 2003, 83, 851-853.	1.5	76
71	Fabrication of 2-D photonic bandgap structures in GaAs/AlGaAs. Electronics Letters, 1994, 30, 1444-1446.	0.5	75
72	Planar photonic crystal polarization splitter. Optics Letters, 2004, 29, 1620.	1.7	75

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73	Postgrowth control of GaAs/AlGaAs quantum well shapes by impurity-free vacancy diffusion. IEEE Journal of Quantum Electronics, 1994, 30, 1189-1195.	1.0	73
74	The resolution of optical traps created by Light Induced Dielectrophoresis (LIDEP). Optics Express, 2007, 15, 12619.	1.7	73
75	Silica-embedded silicon photonic crystal waveguides. Optics Express, 2008, 16, 17076.	1.7	73
76	Ultracompact all-optical XOR logic gate in a slow-light silicon photonic crystal waveguide. Optics Express, 2011, 19, 20681.	1.7	73
77	Ultrafast adiabatic manipulation of slow light in a photonic crystal. Physical Review A, 2010, 81, .	1.0	72
78	Use of guided spontaneous emission of a semiconductor to probe the optical properties of two-dimensional photonic crystals. Applied Physics Letters, 1997, 71, 738-740.	1.5	71
79	Two-dimensional Penrose-tiled photonic quasicrystals: from diffraction pattern to band structure. Nanotechnology, 2000, 11, 274-280.	1.3	71
80	Toward ultrahigh-efficiency aluminum oxide microcavity light-emitting diodes: guided mode extraction by photonic crystals. IEEE Journal of Selected Topics in Quantum Electronics, 2002, 8, 238-247.	1.9	71
81	Flexible metamaterials at visible wavelengths. New Journal of Physics, 2010, 12, 113006.	1.2	71
82	Waveguide microcavity based on photonic microstructures. IEEE Photonics Technology Letters, 1997, 9, 176-178.	1.3	70
83	Cascaded modulator architecture for WDM applications. Optics Express, 2012, 20, 27420.	1.7	70
84	Observation of Pulse Compression in Photonic Crystal Coupled Cavity Waveguides. Journal of Lightwave Technology, 2004, 22, 514-519.	2.7	68
85	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
86	Disorder-induced incoherent scattering losses in photonic crystal waveguides: Bloch mode reshaping, multiple scattering, and breakdown of the Beer-Lambert law. Physical Review B, 2009, 80, .	1.1	66
87	Omnidirectional and compact guided light extraction from Archimedean photonic lattices. Applied Physics Letters, 2003, 83, 1283-1285.	1.5	65
88	Reconfigurable microfluidic photonic crystal slab cavities. Optics Express, 2008, 16, 15887.	1.7	65
89	Waveguide confined Raman spectroscopy for microfluidic interrogation. Lab on A Chip, 2011, 11, 1262.	3.1	65
90	Coupled defects in photonic crystals. IEEE Transactions on Microwave Theory and Techniques, 2001, 49, 1860-1867.	2.9	64

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91	Heavy photon dispersions in photonic crystal waveguides. Applied Physics Letters, 2000, 77, 178-180.	1.5	63
92	Photonic crystal slotted slab waveguides. Photonics and Nanostructures - Fundamentals and Applications, 2008, 6, 38-41.	1.0	63
93	Multi-photon absorption limits to heralded single photon sources. Scientific Reports, 2013, 3, 3087.	1.6	63
94	Direct measurement of the group index of photonic crystal waveguides via Fourier transform spectral interferometry. Applied Physics Letters, 2007, 90, 261107.	1.5	62
95	Optical characterization of waveguide based photonic microstructures. Applied Physics Letters, 1996, 68, 1613-1615.	1.5	61
96	Integrated monolithic optical manipulation. Lab on A Chip, 2006, 6, 1122.	3.1	61
97	High-finesse disk microcavity based on a circular Bragg reflector. Applied Physics Letters, 1998, 73, 1314-1316.	1.5	60
98	Low loss silicon on insulator photonic crystal waveguides made by 193nm optical lithography. Optics Express, 2006, 14, 2440.	1.7	60
99	Room-temperature emission at telecom wavelengths from silicon photonic crystal nanocavities. Applied Physics Letters, 2011, 98, 201106.	1.5	60
100	Optical forces near a nanoantenna. Journal of Nanophotonics, 2010, 4, 041570.	0.4	59
101	Mid-infrared photonic crystal waveguides in silicon. Optics Express, 2012, 20, 29361.	1.7	56
102	Experimental high numerical aperture focusing with high contrast gratings. Optics Letters, 2013, 38, 3410.	1.7	55
103	Investigation of phase matching for third-harmonic generation in silicon slow light photonic crystal waveguides using Fourier optics. Optics Express, 2010, 18, 6831.	1.7	54
104	Near-infrared microcavities confined by two-dimensional photonic bandgap crystals. Electronics Letters, 1999, 35, 228.	0.5	53
105	Dual-Mode Electro-Optical Techniques for Biosensing Applications: A Review. Sensors, 2017, 17, 2047.	2.1	51
106	Low-loss photonic crystal defect waveguides in InP. Applied Physics Letters, 2004, 84, 3588-3590.	1.5	50
107	Compact polarization converter in InP-based material. Optics Express, 2005, 13, 5040.	1.7	50
108	Ultrashort Photonic Crystal Optical Switch Actuated by a Microheater. IEEE Photonics Technology Letters, 2009, 21, 24-26.	1.3	50

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109	Mode structure of coupled L3 photonic crystal cavities. <i>Optics Express</i> , 2011, 19, 5670.	1.7	50
110	Planar photonic crystal coupled cavity waveguides. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2002, 8, 909-918.	1.9	49
111	Efficient photonic crystal Y-junctions. <i>Journal of Optics</i> , 2003, 5, S76-S80.	1.5	47
112	High-Q microfluidic cavities in silicon-based two-dimensional photonic crystal structures. <i>Optics Letters</i> , 2008, 33, 2206.	1.7	47
113	Phase-sensitive amplification in silicon photonic crystal waveguides. <i>Optics Letters</i> , 2014, 39, 363.	1.7	46
114	Performance of waveguide-based two-dimensional photonic-crystal mirrors studied with Fabry-Perot resonators. <i>IEEE Journal of Quantum Electronics</i> , 2001, 37, 237-243.	1.0	45
115	Ultrafast Tunable Optical Delay Line Based on Indirect Photonic Transitions. <i>Physical Review Letters</i> , 2012, 108, 213901.	2.9	45
116	Optically Induced Indirect Photonic Transitions in a Slow Light Photonic Crystal Waveguide. <i>Physical Review Letters</i> , 2014, 112, 053904.	2.9	45
117	Improved 60° bend transmission of submicron-width waveguides defined in two-dimensional photonic crystals. <i>Journal of Lightwave Technology</i> , 2002, 20, 1198-1203.	2.7	44
118	Finite-depth and intrinsic losses in vertically etched two-dimensional photonic crystals. <i>Optical and Quantum Electronics</i> , 2002, 34, 205-215.	1.5	44
119	How to assess light trapping structures versus a Lambertian Scatterer for solar cells?. <i>Optics Express</i> , 2014, 22, A542.	1.7	44
120	Diffraction efficiency and guided light control by two-dimensional photonic-bandgap lattices. <i>IEEE Journal of Quantum Electronics</i> , 1999, 35, 1045-1052.	1.0	42
121	Reduced surface sidewall recombination and diffusion in quantum-dot lasers. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 1861-1863.	1.3	42
122	Polarized quantum dot emission from photonic crystal nanocavities studied under moderate resonant enhanced excitation. <i>Optics Express</i> , 2007, 15, 17221.	1.7	41
123	Dual gratings for enhanced light trapping in thin-film solar cells by a layer-transfer technique. <i>Optics Express</i> , 2013, 21, A433.	1.7	41
124	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
125	Broadband Mirrors in the Near-Infrared Based on Subwavelength Gratings in SOI. <i>IEEE Photonics Journal</i> , 2010, 2, 696-702.	1.0	40
126	Statistical fluctuations of transmission in slow light photonic-crystal waveguides. <i>Optics Express</i> , 2010, 18, 14654.	1.7	39

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127	Deliberate versus intrinsic disorder in photonic crystal nanocavities investigated by resonant light scattering. <i>Physical Review B</i> , 2011, 84, .	1.1	39
128	Introduction to the feature section on photonic crystal structures and applications. <i>IEEE Journal of Quantum Electronics</i> , 2002, 38, 724-724.	1.0	38
129	Polarization conversion in the reflectivity properties of photonic crystal waveguides. <i>IEEE Journal of Quantum Electronics</i> , 2002, 38, 880-884.	1.0	38
130	High-aspect-ratio chemically assisted ion-beam etching for photonic crystals using a high beam voltage-current ratio. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004, 22, 1788.	1.6	38
131	Exploring the Limit of Multiplexed Near-Field Optical Trapping. <i>ACS Photonics</i> , 2021, 8, 2060-2066.	3.2	38
132	Ultrafast Tilting of the Dispersion of a Photonic Crystal and Adiabatic Spectral Compression of Light Pulses. <i>Physical Review Letters</i> , 2012, 108, 033902.	2.9	37
133	Impact of output coupler configuration on operating characteristics of semiconductor ring lasers. <i>Journal of Lightwave Technology</i> , 1995, 13, 1500-1507.	2.7	35
134	Optical guided mode resonance filter on a flexible substrate. <i>Optics Express</i> , 2013, 21, 1002.	1.7	35
135	Demonstration of cavity mode between two-dimensional photonic-crystal mirrors. <i>Electronics Letters</i> , 1997, 33, 1978.	0.5	34
136	Lasing properties of disk microcavity based on a circular Bragg reflector. <i>Applied Physics Letters</i> , 1999, 75, 3051-3053.	1.5	34
137	Nanophotonic Polarization Diversity Demultiplexer Chip. <i>Journal of Lightwave Technology</i> , 2009, 27, 417-425.	2.7	34
138	Ultrafast rerouting of light via slow modes in a nanophotonic directional coupler. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	33
139	Mode multiplexed single-photon and classical channels in a few-mode fiber. <i>Optics Express</i> , 2013, 21, 28794.	1.7	33
140	Transmission properties of two-dimensional photonic crystal channel waveguides. <i>Optical and Quantum Electronics</i> , 2002, 34, 171-181.	1.5	32
141	Temperature stabilization of optofluidic photonic crystal cavities. <i>Applied Physics Letters</i> , 2009, 94, 231114.	1.5	32
142	Ultracompact 160 Gbaud all-optical demultiplexing exploiting slow light in an engineered silicon photonic crystal waveguide. <i>Optics Letters</i> , 2011, 36, 1728.	1.7	32
143	Novel Dispersion-Adapted Photonic Crystal Cavity With Improved Disorder Stability. <i>IEEE Journal of Quantum Electronics</i> , 2012, 48, 1177-1183.	1.0	32
144	Multiparameter antibiotic resistance detection based on hydrodynamic trapping of individual <i>E. coli</i> . <i>Lab on A Chip</i> , 2019, 19, 1417-1426.	3.1	32

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145	Experimental technique to determine the band structure of two-dimensional photonic lattices. IEE Proceedings: Optoelectronics, 1998, 145, 398-402.	0.8	31
146	Compact and integrated 2-D photonic crystal super-prism filter-device for wavelength demultiplexing applications. Optics Express, 2006, 14, 1632.	1.7	30
147	Enhanced light extraction efficiency from AlGaInP thin-film light-emitting diodes with photonic crystals. Applied Physics Letters, 2008, 93, .	1.5	30
148	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
149	Efficient semiconductor ring lasers made by a simple self-aligned fabrication process. IEEE Journal of Selected Topics in Quantum Electronics, 1995, 1, 757-761.	1.9	29
150	Local probing of Bloch mode dispersion in a photonic crystal waveguide. Optics Express, 2005, 13, 4457.	1.7	29
151	Monolithic integration of microfluidic channels and semiconductor lasers. Optics Express, 2006, 14, 7723.	1.7	29
152	Analysis of harmonic (sub)THz passive mode-locking in monolithic compound cavity Fabry-Perot and ring laser diodes. IEE Proceedings: Optoelectronics, 1999, 146, 55-61.	0.8	28
153	Third-harmonic generation in slow-light chalcogenide glass photonic crystal waveguides. Optics Letters, 2011, 36, 2818.	1.7	28
154	Dielectric waveguide vertically coupled to all-silicon photodiodes operating at telecommunication wavelengths. Applied Physics Letters, 2013, 102, .	1.5	28
155	Evidence of guided resonances in photonic quasicrystal slabs. Physical Review B, 2011, 84, .	1.1	27
156	Dual lattice photonic-crystal beam splitters. Applied Physics Letters, 2005, 86, 211106.	1.5	26
157	Influence of residual disorder on the anticrossing of Bloch modes probed in k -space. Physical Review B, 2008, 78, .	1.1	26
158	Compact polarization rotators for integrated polarization diversity in InP-based waveguides. Optics Letters, 2007, 32, 2176.	1.7	25
159	Directional light extraction from thin-film resonant cavity light-emitting diodes with a photonic crystal. Applied Physics Letters, 2008, 93, 231109.	1.5	25
160	Bidirectional multiplexing of heralded single photons from a silicon chip. Optics Letters, 2013, 38, 5176.	1.7	25
161	Hybrid plasmonic waveguide coupling of photons from a single molecule. APL Photonics, 2019, 4, .	3.0	25
162	Experimental verification of numerically optimized photonic crystal injector, Y-splitter, and bend. IEEE Journal on Selected Areas in Communications, 2005, 23, 1390-1395.	9.7	24

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163	Optical chromatography using a photonic crystal fiber with on-chip fluorescence excitation. Optics Express, 2010, 18, 6396.	1.7	24
164	Experimental observation of evanescent modes at the interface to slow-light photonic crystal waveguides. Optics Letters, 2011, 36, 1170.	1.7	24
165	Four-wave mixing in slow light photonic crystal waveguides with very high group index. Optics Express, 2012, 20, 17474.	1.7	24
166	Strip-loaded semiconductor ring lasers employing multimode interference output couplers. Applied Physics Letters, 1994, 64, 2788-2790.	1.5	23
167	Cavities without leaks. Nature Materials, 2003, 2, 777-778.	13.3	23
168	Compact Slanted Grating Couplers Between Optical Fiber and InP-InGaAsP Waveguides. IEEE Photonics Technology Letters, 2007, 19, 396-398.	1.3	23
169	Fourier space imaging of light localization at a photonic band-edge located below the light cone. Physical Review B, 2009, 79, .	1.1	23
170	Photonic Crystal Formed by the Imaginary Part of the Refractive Index. Advanced Materials, 2010, 22, 2676-2679.	11.1	23
171	Lifetime statistics of quantum chaos studied by a multiscale analysis. Applied Physics Letters, 2012, 100, .	1.5	23
172	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
173	Directionally dependent confinement in photonic-crystal microcavities. Journal of the Optical Society of America B: Optical Physics, 2000, 17, 2043.	0.9	22
174	Title is missing!. Optical and Quantum Electronics, 2002, 34, 79-89.	1.5	22
175	Dynamics of a two-state quantum dot laser with saturable absorber. Applied Physics Letters, 2007, 90, 121113.	1.5	22
176	Propagation Losses of Slotted Photonic Crystal Waveguides. IEEE Photonics Journal, 2012, 4, 1536-1541.	1.0	22
177	Beyond Q : The Importance of the Resonance Amplitude for Photonic Sensors. ACS Photonics, 2022, 9, 1757-1763.	3.2	22
178	Two-dimensional waveguide based photonic microstructures in GaAs and InP. Microelectronic Engineering, 1997, 35, 29-32.	1.1	21
179	Characterisation of waveguide microcavities using high-resolution transmission spectroscopy and near-field scanning optical microscopy. IEE Proceedings: Optoelectronics, 1998, 145, 379-383.	0.8	21
180	Transmission and reflection analysis of functional coupled cavity components. IEEE Journal of Quantum Electronics, 2002, 38, 830-836.	1.0	21

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181	Influence of grating characteristics on the operation of circular-grating distributed-feedback polymer lasers. <i>Journal of Applied Physics</i> , 2005, 98, 023105.	1.1	21
182	Demonstration of an integrated optical switch in a silicon photonic crystal directional coupler. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 1111-1114.	1.3	21
183	Complete response characterization of ultrafast linear photonic devices. <i>Optics Letters</i> , 2009, 34, 3418.	1.7	21
184	Enhanced 154 nm emission in Y-Er disilicate thin films on silicon photonic crystal cavities. <i>Optics Express</i> , 2013, 21, 10278.	1.7	21
185	Edge-emitting semiconductor microlasers with ultrashort-cavity and dry-etched high-reflectivity photonic microstructure mirrors. <i>IEEE Photonics Technology Letters</i> , 2001, 13, 176-178.	1.3	20
186	Silicon based organic semiconductor laser. <i>Applied Physics Letters</i> , 2007, 91, 051124.	1.5	20
187	Reflection from a free carrier front via an intraband indirect photonic transition. <i>Nature Communications</i> , 2018, 9, 1447.	5.8	20
188	Very low loss extended cavity GaAs/AlGaAs lasers made by impurity-free vacancy diffusion. <i>Electronics Letters</i> , 1994, 30, 145-146.	0.5	19
189	Cascaded photonic crystal guides and cavities: spectral studies and their impact on integrated optics design. <i>IEEE Journal of Quantum Electronics</i> , 2002, 38, 816-824.	1.0	19
190	Fabrication of photonic crystals using a spin-coated hydrogen silsesquioxane hard mask. <i>Journal of Vacuum Science & Technology B</i> , 2006, 24, 336.	1.3	19
191	Scaling of Raman amplification in realistic slow-light photonic crystal waveguides. <i>Physical Review B</i> , 2011, 84, .	1.1	19
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