Kengo Nozaki

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79 papers	2,946 citations	27 h-index	54 g-index
108 ext. papers	3,799 ext. citations	7 avg, IF	5.02 L-index

#	Paper	IF	Citations
79	Excitonic nonlinear shifts in photonic crystal nanocavities with buried multiple quantum wells. *Applied Physics Letters*, **2021**, 118, 111101	3.4	
78	Observing exceptional point degeneracy of radiation with electrically pumped photonic crystal coupled-nanocavity lasers. *Optica*, **2021**, 8, 184	8.6	6
77	Ultrashort low-loss gates for linear optical logic on Si photonics platform. *Communications Physics*, **2020**, 3,	5.4	2
76	All-Optical InAsP/InP Nanowire Switches Integrated in a Si Photonic Crystal. *ACS Photonics*, **2020**, 7, 1016-1021	6.5	20
75	Ultrafast and energy-efficient all-optical switching with graphene-loaded deep-subwavelength plasmonic waveguides. *Nature Photonics*, **2020**, 14, 37-43	33.9	127
74	Hybrid Nanowire Photodetector Integrated in a Silicon Photonic Crystal. *ACS Photonics*, **2020**, 7, 3467-3473	6.5	9
73	Femtofarad optoelectronic integration demonstrating energy-saving signal conversion and nonlinear functions. *Nature Photonics*, **2019**, 13, 454-459	33.9	41
72	Exceptional Point Transition of Electrically Pumped Photonic Crystal Nanolasers **2019**,		1
71	High signal-to-noise ratio for high-impedance-loaded nano-photodetector toward attojoule optical reception. *Applied Physics Letters*, **2019**, 115, 251107	3.4	
70	Forward-biased nanophotonic detector for ultralow-energy dissipation receiver. *APL Photonics*, **2018**, 3, 046101	5.2	6
69	Amplifier-Free Bias-Free Receiver Based on Low-Capacitance Nanophotodetector. *IEEE Journal of Selected Topics in Quantum Electronics*, **2018**, 24, 1-11	3.8	10
68	An Integrated Nanophotonic Parallel Adder. *ACM Journal on Emerging Technologies in Computing Systems*, **2018**, 14, 1-20	1.7	11
67	Wideband slow short-pulse propagation in one-thousand slantingly coupled L3 photonic crystal nanocavities. *Optics Express*, **2018**, 26, 9552-9564	3.3	8
66	Ultracompact O-E-O converter based on fF-capacitance nanophotonic integration **2018**,		3
65	Room temperature continuous-wave nanolaser diode utilized by ultrahigh-Q few-cell photonic crystal nanocavities. *Optics Express*, **2018**, 26, 26598-26617	3.3	4
64	Low-latency optical parallel adder based on a binary decision diagram with wavelength division multiplexing scheme **2018**,		3
63	Direct modulation of a single InP/InAs nanowire light-emitting diode. *Applied Physics Letters*, **2018**, 112, 251106	3.4	14

62	Coherent control of high efficiency metasurface beam deflectors with a back partial reflector. *APL Photonics*, **2017**, 2, 046104	5.2	18
61	Ultralow-energy electro-absorption modulator consisting of InGaAsP-embedded photonic-crystal waveguide. *APL Photonics*, **2017**, 2, 056105	5.2	17
60	Continuous-wave operation and 10-Gb/s direct modulation of InAsP/InP sub-wavelength nanowire laser on silicon photonic crystal. *APL Photonics*, **2017**, 2, 046106	5.2	44
59	Sub-fF-Capacitance Photonic-Crystal Photodetector Towards fJ/bit On-Chip Receiver. *IEICE Transactions on Electronics*, **2017**, E100.C, 750-758	0.4	2
58	Forward-biased photonic crystal photodetector towards amplifier-free bias-free receiver **2017**,		6
57	Photonic-crystal nano-photodetector with ultrasmall capacitance for on-chip light-to-voltage conversion without an amplifier. *Optica*, **2016**, 3, 483	8.6	43
56	An integrated optical parallel adder as a first step towards light speed data processing **2016**,		3
55	Deep-subwavelength plasmonic mode converter with large size reduction for Si-wire waveguide. *Optica*, **2016**, 3, 999	8.6	32
54	Ultralow bias power all-optical photonic crystal memory realized with systematically tuned L3 nanocavity. *Applied Physics Letters*, **2015**, 107, 221101	3.4	8
53	All-optical switching for 10-Gb/s packet data by using an ultralow-power optical bistability of photonic-crystal nanocavities. *Optics Express*, **2015**, 23, 30379-92	3.3	17
52	Ultralow-power and integrated operation of all-optical switches/memories in a photonic crystal chip **2014**,		1
51	Photonic crystal lasers using wavelength-scale embedded active region. *Journal Physics D: Applied Physics*, **2014**, 47, 023001	3	20
50	Large-scale integration of wavelength-addressable all-optical memories on a photonic crystal chip. *Nature Photonics*, **2014**, 8, 474-481	33.9	187
49	Photonic-crystal-based InGaAs photodetector connected to load resistor for receiver-less light-to-voltage conversion on chip **2014**,		1
48	Systematic hole-shifting of L-type nanocavity with an ultrahigh Q factor. *Optics Letters*, **2014**, 39, 5780-3	3	21
47	High-responsivity 1.7-μm-long InGaAs photodetectors based on photonic crystal with ultrasmall buried heterostructure **2014**,		1
46	Compact 1D-silicon photonic crystal electro-optic modulator operating with ultra-low switching voltage and energy. *Optics Express*, **2014**, 22, 28623-34	3.3	40
45	25-channel all-optical gate switches realized by integrating silicon photonic crystal nanocavities. *Optics Express*, **2014**, 22, 14263-74	3.3	29

44	Toward fJ/bit optical communication in a chip. *Optics Communications*, **2014**, 314, 3-17	2	42
43	Large Q factor enhancement of Ln nanocavity by a unified hole-shifting rule **2013**,		3
42	InGaAs nano-photodetectors based on photonic crystal waveguide including ultracompact buried heterostructure. *Optics Express*, **2013**, 21, 19022-8	3.3	21
41	Ultralow-energy and high-contrast all-optical switch involving Fano resonance based on coupled photonic crystal nanocavities. *Optics Express*, **2013**, 21, 11877-88	3.3	122
40	InGaAs nano-photodetectors based on photonic crystal waveguide including ultracompact buried heterostructure **2013**,		1
39	Ultralow Operating Energy Electrically Driven Photonic Crystal Lasers. *IEEE Journal of Selected Topics in Quantum Electronics*, **2013**, 19, 4900311-4900311	3.8	57
38	Few-fJ/bit data transmissions using directly modulated lambda-scale embedded active region photonic-crystal lasers. *Nature Photonics*, **2013**, 7, 569-575	33.9	147
37	Femtojoule/bit integrated nanophotonics based on photonic crystals. *IEICE Electronics Express*, **2013**, 10, 20132003-20132003	0.5	1
36	Photonic Crystals. *Series in Optics and Optoelectronics*, **2013**, 287-332		
35	Wavelength-Addressable Multi-Bit Optical Memory Based on a Large-Scale Array of Photonic Crystal Nanocavities **2013**,		1
34	Ultra-low threshold current CW operation of photonic crystal nanocavity laser with InAlAs sacrificial layer **2012**,		2
33	Room-temperature continuous-wave operation of lateral current injection wavelength-scale embedded active-region photonic-crystal laser. *Optics Express*, **2012**, 20, 3773-80	3.3	82
32	Ultralow-power all-optical RAM based on nanocavities. *Nature Photonics*, **2012**, 6, 248-252	33.9	196
31	10-Gbit/s Direct Modulation of Electrically Driven Photonic Crystal Nanocavity Laser **2012**,		3
30	Narrow linewidth operation of buried-heterostructure photonic crystal nanolaser. *Optics Express*, **2012**, 20, 11643-51	3.3	9
29	Continuous-Wave Operation of Electrically Driven Wavelength-Scale Embedded Active-Region Photonic-Crystal Lasers at Room Temperature **2012**,		1
28	High-Temperature Operation of Photonic-Crystal Lasers for On-Chip Optical Interconnection. *IEICE Transactions on Electronics*, **2012**, E95.C, 1244-1251	0.4	3
27	Optical Random Access Memory Based on Photonic Crystal Nanocavities. *The Review of Laser Engineering*, **2012**, 40, 363	0	

26	20-Gbit/s directly modulated photonic crystal nanocavity laser with ultra-low power consumption. *Optics Express*, **2011**, 19, 2242-50	3.3	57
25	All-optical memory based on injection-locking bistability in photonic crystal lasers. *Optics Express*, **2011**, 19, 3387-95	3.3	44
24	40-Gb/s directly-modulated photonic crystal lasers under optical injection-locking. *Optics Express*, **2011**, 19, 17669-76	3.3	9
23	Low-power nanophotonic devices based on photonic crystals towards dense photonic network on chip. *IET Circuits, Devices and Systems*, **2011**, 5, 84	1.1	41
22	Photonic Crystal Point-Shift Nanolasers With and Without Nanoslots Design, Fabrication, Lasing, and Sensing Characteristics. *IEEE Journal of Selected Topics in Quantum Electronics*, **2011**, 17, 1632-1647	3.8	31
21	Optically injection-locked photonic crystal laser with >67 GHz modulation bandwidth. *Electronics Letters*, **2011**, 47, 1240	1.1	2
20	High-speed ultracompact buried heterostructure photonic-crystal laser with 13 fJ of energy consumed per bit transmitted. *Nature Photonics*, **2010**, 4, 648-654	33.9	224
19	Sub-femtojoule all-optical switching using a photonic-crystal nanocavity. *Nature Photonics*, **2010**, 4, 477-483	33.9	457
18	20-Gbit/s directly modulated buried heterostructure photonic crystal laser with 8.76-fJ/bit operating energy **2010**,		2
17	Nanoslot laser. *Applied Physics Letters*, **2010**, 97, 161108	3.4	25
16	Ultra-small InGaAsP/InP buried heterostructure photonic crystal laser **2009**,		2
15	Photonic crystal nanolaser monolithically integrated with passive waveguide for effective light extraction. *Applied Physics Letters*, **2008**, 92, 021108	3.4	43
14	Refractive index sensing utilizing a cw photonic crystal nanolaser and its array configuration. *Optics Express*, **2008**, 16, 8174-80	3.3	86
13	Resonantly photopumped lasing and its switching behavior in a photonic crystal nanolaser. *Applied Physics Letters*, **2008**, 92, 021501	3.4	1
12	Room temperature continuous wave operation and controlled spontaneous emission in ultrasmall photonic crystal nanolaser. *Optics Express*, **2007**, 15, 7506-14	3.3	169
11	InP Etching by HI/Xe Inductively Coupled Plasma for Photonic-Crystal Device Fabrication. *Japanese Journal of Applied Physics*, **2006**, 45, L102-L104	1.4	10
10	Laser characteristics with ultimate-small modal volume in photonic crystal slab point-shift nanolasers. *Applied Physics Letters*, **2006**, 88, 211101	3.4	62
9	Photonic Molecules in Photonic Crystals. *Japanese Journal of Applied Physics*, **2006**, 45, 6108-6111	1.4	18

8	Lasing Characteristics of 12-Fold Symmetric Quasi-periodic Photonic Crystal Slab Nanolasers. *Japanese Journal of Applied Physics*, **2006**, 45, 6087-6090	1.4	9
7	Dipole mode photonic crystal point defect laser on InGaAsP/InP. *Journal of Crystal Growth*, **2006**, 292, 341-344	1.6	12
6	Photonic Crystal/Quasicrystal Nanolasers and Spontaneous Emission Control. *The Review of Laser Engineering*, **2006**, 34, 756-760	0	
5	Carrier and photon analyses of photonic microlasers by two-dimensional rate equations. *IEEE Journal on Selected Areas in Communications*, **2005**, 23, 1411-1417	14.2	15
4	Photonic crystal point-shift nanolaser with ultimate small modal volume. *Electronics Letters*, **2005**, 41, 843	1.1	17
3	Observation of fast spontaneous emission decay in GaInAsP photonic crystal point defect nanocavity at room temperature. *Applied Physics Letters*, **2004**, 85, 3989-3991	3.4	54
2	Quasiperiodic photonic crystal microcavity lasers. *Applied Physics Letters*, **2004**, 84, 4875-4877	3.4	66
1	Ultralow threshold and single-mode lasing in microgear lasers and its fusion with quasi-periodic photonic crystals. *IEEE Journal of Selected Topics in Quantum Electronics*, **2003**, 9, 1355-1360	3.8	43