

Susumu Noda

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.

186
papers

13,847
citations

53
h-index

116
g-index

279
ext. papers

16,791
ext. citations

8
avg, IF

6.54
L-index

#	Paper	IF	Citations
186	Electrically controlled on-demand photon transfer between high-Q photonic crystal nanocavities on a silicon chip. <i>Nature Photonics</i> , 2022 , 16, 113-118	33.9	4
185	Photonic-crystal lasers with two-dimensionally arranged gain and loss sections for high-peak-power short-pulse operation. <i>Nature Photonics</i> , 2021 , 15, 311-318	33.9	16
184	Photonic-crystal lasers with high-quality narrow-divergence symmetric beams and their application to LiDAR. <i>JPhys Photonics</i> , 2021 , 3, 022006	2.5	7
183	Fabrication and characterization of an L3 nanocavity designed by an iterative machine-learning method. <i>APL Photonics</i> , 2021 , 6, 036113	5.2	4
182	Detection of negatively ionized air by using a Raman silicon nanocavity laser. <i>Optics Express</i> , 2021 , 29, 16228-16240	3.3	4
181	Sub-100-nW-threshold Raman silicon laser designed by a machine-learning method that optimizes the product of the cavity Q-factors. <i>Optics Express</i> , 2021 , 29, 17053-17068	3.3	5
180	Self-consistent analysis of photonic-crystal surface-emitting lasers under continuous-wave operation. <i>Optics Express</i> , 2021 , 29, 25118-25132	3.3	1
179	Integrated Near-Field Thermophotovoltaic Device Overcoming Blackbody Limit. <i>ACS Photonics</i> , 2021 , 8, 2466-2472	6.3	8
178	1.2- μ m-band ultrahigh-Q photonic crystal nanocavities and their potential for Raman silicon lasers. <i>Optics Express</i> , 2021 , 29, 24396-24410	3.3	2
177	Light Detection Functionality of Photonic-Crystal Lasers. <i>IEEE Journal of Quantum Electronics</i> , 2021 , 57, 1-8	2	0
176	Statistical evaluation of Q factors of fabricated photonic crystal nanocavities designed by using a deep neural network. <i>Applied Physics Express</i> , 2020 , 13, 012002	2.4	7
175	Thermal management for CW operation of large-area double-lattice photonic-crystal lasers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020 , 37, 3882	1.7	5
174	Design of photonic-crystal surface-emitting lasers with enhanced in-plane optical feedback for high-speed operation. <i>Optics Express</i> , 2020 , 28, 5050-5057	3.3	6
173	Continuous-wave lasing operation of 1.3- μ m wavelength InP-based photonic crystal surface-emitting lasers using MOVPE regrowth. <i>Optics Express</i> , 2020 , 28, 35483-35489	3.3	5
172	Quantitative evaluation of enhanced Er luminescence in GaAs-based two-dimensional photonic crystal nanocavities. <i>Applied Physics Letters</i> , 2020 , 116, 181102	3.4	1
171	Experimental Investigation of Lasing Modes in Double-Lattice Photonic-Crystal Resonators and Introduction of In-Plane Heterostructures. <i>Proceedings of the IEEE</i> , 2020 , 108, 819-826	14.3	6
170	High-Efficiency Thermophotovoltaic System That Employs an Emitter Based on a Silicon Rod-Type Photonic Crystal. <i>ACS Photonics</i> , 2020 , 7, 80-87	6.3	18

169	Dually modulated photonic crystals enabling high-power high-beam-quality two-dimensional beam scanning lasers. <i>Nature Communications</i> , 2020 , 11, 3487	17.4	17
168	Detrimental Fluctuation of Frequency Spacing Between the Two High-Quality Resonant Modes in a Raman Silicon Nanocavity Laser. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020 , 26, 1-12	3.8	7
167	Progress in Photonic-Crystal Surface-Emitting Lasers. <i>Photonics</i> , 2019 , 6, 96	2.2	11
166	Comprehensive analysis of photonic-crystal surface-emitting lasers via time-dependent three-dimensional coupled-wave theory. <i>Physical Review B</i> , 2019 , 99,	3.3	10
165	Electrical Modulation of Narrowband GaN/AlGaIn Quantum-Well Photonic Crystal Thermal Emitters in Mid-Wavelength Infrared. <i>ACS Photonics</i> , 2019 , 6, 1565-1571	6.3	8
164	On-chip dynamic time reversal of light in a coupled-cavity system. <i>APL Photonics</i> , 2019 , 4, 030806	5.2	4
163	Ultrahigh-Q photonic crystal nanocavities based on 4H silicon carbide. <i>Optica</i> , 2019 , 6, 991	8.6	42
162	Implementing a Raman silicon nanocavity laser for integrated optical circuits by using a (100) SOI wafer with a 45-degree-rotated top silicon layer. <i>OSA Continuum</i> , 2019 , 2, 2098	1.4	11
161	Modulated photonic-crystal surface-emitting laser with elliptical lattice points for two-dimensional coupling enhancement. <i>AIP Advances</i> , 2019 , 9, 115204	1.5	3
160	Iterative optimization of photonic crystal nanocavity designs by using deep neural networks. <i>Nanophotonics</i> , 2019 , 8, 2243-2256	6.3	21
159	Double-lattice photonic-crystal resonators enabling high-brightness semiconductor lasers with symmetric narrow-divergence beams. <i>Nature Materials</i> , 2019 , 18, 121-128	27	63
158	Ultrahigh-Q Photonic Nanocavity Devices on a Dual Thickness SOI Substrate Operating at Both 1.31- and 1.55- μm Telecommunication Wavelength Bands. <i>Laser and Photonics Reviews</i> , 2019 , 13, 1800258	8.3	10
157	GaN/AlGaIn photonic crystal narrowband thermal emitters on a semi-transparent low-refractive-index substrate. <i>AIP Advances</i> , 2018 , 8, 015221	1.5	1
156	Wavelength-selective thermal emitters using Si-rods on MgO. <i>Applied Physics Letters</i> , 2018 , 112, 011103	3.4	6
155	Photonic Crystal Devices in Silicon Photonics. <i>Proceedings of the IEEE</i> , 2018 , 106, 2183-2195	14.3	13
154	Lasing Dynamics of Optically-Pumped Ultralow-Threshold Raman Silicon Nanocavity Lasers. <i>Physical Review Applied</i> , 2018 , 10,	4.3	12
153	Strongly asymmetric wavelength dependence of optical gain in nanocavity-based Raman silicon lasers. <i>Optica</i> , 2018 , 5, 1256	8.6	12
152	High-Q-factor nanobeam photonic crystal cavities in bulk silicon carbide. <i>Applied Physics Letters</i> , 2018 , 113, 231106	3.4	14

151	Optimization of photonic crystal nanocavities based on deep learning. <i>Optics Express</i> , 2018 , 26, 32704-32717	3.7	77
150	Microcrystalline-Silicon Solar Cells With Photonic Crystals on the Top Surface. <i>IEEE Journal of Photovoltaics</i> , 2017 , 7, 950-956	3.7	5
149	Photonic-Crystal Surface-Emitting Lasers: Review and Introduction of Modulated-Photonic Crystals. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017 , 23, 1-7	3.8	44
148	Demonstration of a mid-wavelength infrared narrowband thermal emitter based on GaN/AlGaIn quantum wells and a photonic crystal. <i>Applied Physics Letters</i> , 2017 , 110, 181109	3.4	5
147	Enhanced radiative recombination rate for electron-hole droplets in a silicon photonic crystal nanocavity. <i>Physical Review B</i> , 2017 , 96,	3.3	7
146	High-beam-quality, efficient operation of passively Q-switched Yb:YAG/Cr:YAG laser pumped by photonic-crystal surface-emitting laser. <i>Applied Physics B: Lasers and Optics</i> , 2017 , 123, 1	1.9	5
145	Photonic Crystal Lasers Fabricated by MOVPE Based on Organic Arsenic Source. <i>IEEE Photonics Technology Letters</i> , 2017 , 29, 1739-1742	2.2	9
144	Elliptical double-hole photonic-crystal surface-emitting lasers 2017 ,		2
143	Analysis of high-Q photonic crystal L3 nanocavities designed by visualization of the leaky components. <i>Optics Express</i> , 2017 , 25, 367-376	3.3	25
142	Ultrahigh-Q photonic crystal nanocavities fabricated by CMOS process technologies. <i>Optics Express</i> , 2017 , 25, 18165-18174	3.3	21
141	Photonic crystal nanocavity with a Q factor exceeding eleven million. <i>Optics Express</i> , 2017 , 25, 1769-1777	3.3	100
140	Fabrication of photonic crystal structures by tertiary-butyl arsine-based metalorganic vapor-phase epitaxy for photonic crystal lasers. <i>Applied Physics Express</i> , 2016 , 9, 062702	2.4	16
139	On-demand transfer of trapped photons on a chip. <i>Science Advances</i> , 2016 , 2, e1501690	14.3	31
138	Fabrication of 3D Photonic Crystals toward Arbitrary Manipulation of Photons in Three Dimensions. <i>Photonics</i> , 2016 , 3, 36	2.2	6
137	On-chip integration and high-speed switching of multi-wavelength narrowband thermal emitters. <i>Applied Physics Letters</i> , 2016 , 108, 091101	3.4	16
136	Near-infrared-to-visible highly selective thermal emitters based on an intrinsic semiconductor. <i>Science Advances</i> , 2016 , 2, e1600499	14.3	46
135	Improvement in the quality factors for photonic crystal nanocavities via visualization of the leaky components. <i>Optics Express</i> , 2016 , 24, 9541-9	3.3	31
134	Photonic crystal microcrystalline silicon solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2015 , 23, 1475-1483	6.8	19

133	Raman shift and strain effect in high-Q photonic crystal silicon nanocavity. <i>Optics Express</i> , 2015 , 23, 395139	3.9	21
132	High Power, Single Mode, Photonic-Crystal Surface-Emitting Laser. <i>The Review of Laser Engineering</i> , 2015 , 43, 447	0	
131	Mode stability in photonic-crystal surface-emitting lasers with large $\mathbb{1}$ DL. <i>Applied Physics Letters</i> , 2014 , 104, 021102	3.4	14
130	Tandem photonic-crystal thin films surpassing Lambertian light-trapping limit over broad bandwidth and angular range. <i>Applied Physics Letters</i> , 2014 , 104, 091121	3.4	13
129	Watt-class high-power, high-beam-quality photonic-crystal lasers. <i>Nature Photonics</i> , 2014 , 8, 406-411	33.9	261
128	Analytical perspective for bound states in the continuum in photonic crystal slabs. <i>Physical Review Letters</i> , 2014 , 113, 037401	7.4	163
127	Experimental Demonstration of Quasi-resonant Absorption in Silicon Thin Films for Enhanced Solar Light Trapping. <i>ACS Photonics</i> , 2014 , 1, 304-309	6.3	17
126	Photonic crystal nanocavity with a Q-factor of \sim 9 million. <i>Optics Express</i> , 2014 , 22, 916-24	3.3	140
125	Ultra-compact 32-channel drop filter with 100 GHz spacing. <i>Optics Express</i> , 2014 , 22, 4692-8	3.3	22
124	Breakthroughs in Photonics 2013: A Microwatt-Threshold Raman Silicon Laser. <i>IEEE Photonics Journal</i> , 2014 , 6, 1-5	1.8	4
123	Second-harmonic generation in a silicon-carbide-based photonic crystal nanocavity. <i>Optics Letters</i> , 2014 , 39, 1768-71	3	57
122	Structural Optimization of Photonic Crystals for Enhancing Optical Absorption of Thin Film Silicon Solar Cell Structures. <i>IEEE Photonics Journal</i> , 2014 , 6, 1-10	1.8	11
121	Dynamic control of photonic crystal nanocavities for photon manipulation. <i>IEICE Proceeding Series</i> , 2014 , 1, 356-359		
120	Single-peak narrow-bandwidth mid-infrared thermal emitters based on quantum wells and photonic crystals. <i>Applied Physics Letters</i> , 2013 , 102, 191110	3.4	58
119	High power photonic-crystal surface-emitting lasers 2013 ,		1
118	Far off-resonant coupling between photonic crystal microcavity and single quantum dot with resonant excitation. <i>Applied Physics Letters</i> , 2013 , 103, 251113	3.4	4
117	Recent progress in photonic crystals and their applications 2013 ,		1
116	Realization of three-dimensional guiding of photons in photonic crystals. <i>Nature Photonics</i> , 2013 , 7, 133-137	3.7	66

115	High-Q resonant modes in a photonic crystal heterostructure nanocavity and applicability to a Raman silicon laser. <i>Physical Review B</i> , 2013 , 88,	3-3	22
114	A micrometre-scale Raman silicon laser with a microwatt threshold. <i>Nature</i> , 2013 , 498, 470-4	50-4	155
113	Accurate alignment of a photonic crystal nanocavity with an embedded quantum dot based on optical microscopic photoluminescence imaging. <i>Applied Physics Letters</i> , 2013 , 102, 011110	3-4	39
112	Adiabatic transfer scheme of light between strongly coupled photonic crystal nanocavities. <i>Physical Review B</i> , 2013 , 87,	3-3	8
111	Air-Hole Retained Growth by Molecular Beam Epitaxy for Fabricating GaAs-Based Photonic-Crystal Lasers. <i>Applied Physics Express</i> , 2013 , 6, 042002	2-4	17
110	Partially disordered photonic-crystal thin films for enhanced and robust photovoltaics. <i>Applied Physics Letters</i> , 2012 , 100, 181110	3-4	77
109	Strong coupling between distant photonic nanocavities and its dynamic control. <i>Nature Photonics</i> , 2012 , 6, 56-61	33-9	173
108	Conversion of broadband to narrowband thermal emission through energy recycling. <i>Nature Photonics</i> , 2012 , 6, 535-539	33-9	194
107	Suppression of multiple photon absorption in a SiC photonic crystal nanocavity operating at 1.55 μm . <i>Optics Express</i> , 2012 , 20, 14789-96	3-3	27
106	Three-dimensional coupled-wave analysis for square-lattice photonic crystal surface emitting lasers with transverse-electric polarization: finite-size effects. <i>Optics Express</i> , 2012 , 20, 15945-61	3-3	53
105	Ultra-high-Q photonic crystal nanocavities in wide optical telecommunication bands. <i>Optics Express</i> , 2012 , 20, 22743-52	3-3	27
104	Enhancement of photocurrent in ultrathin active-layer photodetecting devices with photonic crystals. <i>Applied Physics Letters</i> , 2012 , 101, 161103	3-4	12
103	Needle-like focus generation by radially polarized halo beams emitted by photonic-crystal ring-cavity laser. <i>Applied Physics Letters</i> , 2012 , 101, 221103	3-4	17
102	Centered-rectangular lattice photonic-crystal surface-emitting lasers. <i>Physical Review B</i> , 2012 , 85,	3-3	6
101	Demonstration of two-dimensional photonic crystals based on silicon carbide. <i>Optics Express</i> , 2011 , 19, 11084-9	3-3	83
100	Statistical studies of photonic heterostructure nanocavities with an average Q factor of three million. <i>Optics Express</i> , 2011 , 19, 11916-21	3-3	78
99	Higher-order vector beams produced by photonic-crystal lasers. <i>Optics Express</i> , 2011 , 19, 11963-8	3-3	56
98	Symmetrically glass-clad photonic crystal nanocavities with ultrahigh quality factors. <i>Optics Letters</i> , 2011 , 36, 91-3	3	19

97	Silicon carbide-based photonic crystal nanocavities for ultra-broadband operation from infrared to visible wavelengths. <i>Applied Physics Letters</i> , 2011 , 99, 201102	3.4	49
96	Three-dimensional coupled-wave model for square-lattice photonic crystal lasers with transverse electric polarization: A general approach. <i>Physical Review B</i> , 2011 , 84,	3.3	62
95	Impact of nonpolar AlGaIn quantum wells on deep ultraviolet laser diodes. <i>Journal of Applied Physics</i> , 2011 , 110, 043115	2.5	23
94	Green GaInN photonic-crystal light-emitting diodes with small surface recombination effect. <i>Applied Physics Letters</i> , 2011 , 98, 181104	3.4	16
93	On-chip beam-steering photonic-crystal lasers. <i>Nature Photonics</i> , 2010 , 4, 447-450	33.9	135
92	Reduction in surface recombination and enhancement of light emission in silicon photonic crystals treated by high-pressure water-vapor annealing. <i>Applied Physics Letters</i> , 2010 , 97, 121111	3.4	15
91	Valence band effective mass of non-c-plane nitride heterostructures. <i>Journal of Applied Physics</i> , 2010 , 107, 123105	2.5	10
90	Glass-embedded two-dimensional silicon photonic crystal devices with a broad bandwidth waveguide and a high quality nanocavity. <i>Optics Express</i> , 2010 , 18, 19361-6	3.3	21
89	Air-hole design in a vertical direction for high-power two-dimensional photonic-crystal surface-emitting lasers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010 , 27, 1204	1.7	13
88	Coupled-Wave Theory for Square-Lattice Photonic Crystal Lasers With TE Polarization. <i>IEEE Journal of Quantum Electronics</i> , 2010 , 46, 788-795	2	34
87	A Polarization Diversity Two-Dimensional Photonic-Crystal Device. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010 , 16, 70-76	3.8	5
86	GaN Photonic-Crystal Surface-Emitting Laser. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1202, 262		
85	Effects of fluctuation in air hole radii and positions on optical characteristics in photonic crystal heterostructure nanocavities. <i>Physical Review B</i> , 2009 , 79,	3.3	74
84	Spectrally selective thermal radiation based on intersubband transitions and photonic crystals. <i>Optics Express</i> , 2009 , 17, 19190-203	3.3	24
83	Band structure observation of 2D photonic crystal with various V-shaped air-hole arrangements. <i>IEICE Electronics Express</i> , 2009 , 6, 966-971	0.5	13
82	Novel Beam Patterns from Photonic-Crystal Surface-Emitting Laser. <i>The Review of Laser Engineering</i> , 2009 , 37, 689-693	0	
81	Resonant-Wavelength Control of Nanocavities by Nanometer-Scaled Adjustment of Two-Dimensional Photonic Crystal Slab Structures. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 532-534	2.2	19
80	Design of Photonic Crystal Nanocavity With Q-Factor of $\sim 10^9$. <i>Journal of Lightwave Technology</i> , 2008 , 26, 1532-1539	4	95

79	Controlling vertical optical confinement in two-dimensional surface-emitting photonic-crystal lasers by shape of air holes. <i>Optics Express</i> , 2008 , 16, 18485-94	3.3	22
78	GaN photonic-crystal surface-emitting laser at blue-violet wavelengths. <i>Science</i> , 2008 , 319, 445-7	33.3	257
77	Higher-order resonant modes in a photonic heterostructure nanocavity. <i>Applied Physics Letters</i> , 2008 , 92, 241910	3.4	20
76	Linearly-Polarized Single-Lobed Beam in a Surface-Emitting Photonic-Crystal Laser. <i>Applied Physics Express</i> , 2008 , 1, 062002	2.4	10
75	Theoretical analysis of light emission from a coupled system of a photonic nanocavity and a quantum dot. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 2828-2830		5
74	High-Precision Alignment and Bonding System for the Fabrication of 3-D Nanostructures. <i>Journal of Microelectromechanical Systems</i> , 2007 , 16, 1140-1144	2.5	21
73	Dynamic wavelength conversion of an optical pulse traveling in a 2D photonic crystal waveguide. <i>Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS</i> , 2007 ,		2
72	Dynamic control of the Q factor in a photonic crystal nanocavity. <i>Nature Materials</i> , 2007 , 6, 862-5	27	181
71	Spontaneous-emission control by photonic crystals and nanocavities. <i>Nature Photonics</i> , 2007 , 1, 449-458	33.9	675
70	RECENT ADVANCES IN TWO-DIMENSIONAL PHOTONIC CRYSTALS SLAB STRUCTURE: DEFECT ENGINEERING AND HETEROSTRUCTURE. <i>Nano</i> , 2007 , 02, 1-13	1.1	4
69	Controlled spontaneous-emission phenomena in semiconductor slabs with a two-dimensional photonic bandgap. <i>Journal of Optics</i> , 2006 , 8, S131-S138		18
68	Coupled-wave model for square-lattice two-dimensional photonic crystal with transverse-electric-like mode. <i>Applied Physics Letters</i> , 2006 , 89, 021101	3.4	35
67	High-power single-lobed surface-emitting photonic-crystal laser 2006 ,		1
66	Applied physics. Seeking the ultimate nanolaser. <i>Science</i> , 2006 , 314, 260-1	33.3	166
65	Ultrahigh-Q Nanocavities in Two-Dimensional Photonic Crystal Slabs. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2006 , 12, 1123-1134	3.8	93
64	Three-dimensional photonic crystals based on double-angled etching and wafer-fusion techniques. <i>Applied Physics Letters</i> , 2006 , 89, 123106	3.4	19
63	Analysis of the experimental Q factors (~ 1 million) of photonic crystal nanocavities. <i>Optics Express</i> , 2006 , 14, 1996-2002	3.3	165
62	Recent Progresses and Future Prospects of Two- and Three-Dimensional Photonic Crystals. <i>Journal of Lightwave Technology</i> , 2006 , 24, 4554-4567	4	46

61	Photonics: lasers producing tailored beams. <i>Nature</i> , 2006 , 441, 946	50.4	183
60	Two-Dimensional Photonic-Crystal Laser. <i>The Review of Laser Engineering</i> , 2006 , 34, 736-739	0	
59	Preface to Special Issue on Development of the Semiconductor Light Emitting Devices Using Nano-Structure. <i>The Review of Laser Engineering</i> , 2006 , 34, 735-735	0	
58	Two-Dimensional Photonic-Crystal Slab Line-Defect Laser. <i>The Review of Laser Engineering</i> , 2006 , 34, 740-744	0	
57	Light Emission Control by Photonic Bandgap. <i>The Review of Laser Engineering</i> , 2006 , 34, 761-766	0	
56	Highly efficient in-plane channel drop filter in a two-dimensional heterophotonic crystal. <i>Applied Physics Letters</i> , 2005 , 86, 241101	3.4	60
55	Multichannel add/drop filter based on in-plane hetero photonic Crystals. <i>Journal of Lightwave Technology</i> , 2005 , 23, 1449-1455	4	41
54	Fine-tuned high-Q photonic-crystal nanocavity. <i>Optics Express</i> , 2005 , 13, 1202-14	3.3	353
53	Two-dimensional photonic-crystal-slab channel-drop filter with flat-top response. <i>Optics Express</i> , 2005 , 13, 2512-30	3.3	67
52	Lasing band-edge identification for a surface-emitting photonic crystal laser. <i>IEEE Journal on Selected Areas in Communications</i> , 2005 , 23, 1335-1340	14.2	76
51	Guest Editorial Nanotechnologies for Communications. <i>IEEE Journal on Selected Areas in Communications</i> , 2005 , 23, 1305-1307	14.2	
50	Role of interfaces in heterophotonic crystals for manipulation of photons. <i>Physical Review B</i> , 2005 , 71,	3.3	35
49	Ultra-high-Q photonic double-heterostructure nanocavity. <i>Nature Materials</i> , 2005 , 4, 207-210	27	973
48	Dynamic wavelength tuning of channel-drop device in two-dimensional photonic crystal slab. <i>Electronics Letters</i> , 2005 , 41, 37	1.1	26
47	Line-defect waveguide laser integrated with a point defect in a two-dimensional photonic crystal slab. <i>Applied Physics Letters</i> , 2005 , 86, 171106	3.4	14
46	Phase-shift effect on a two-dimensional surface-emitting photonic-crystal laser. <i>Applied Physics Letters</i> , 2005 , 86, 111113	3.4	20
45	Experimental demonstration of complete photonic band gap in two-dimensional photonic crystal slabs. <i>Applied Physics Letters</i> , 2005 , 87, 061107	3.4	52
44	Time-domain measurement of picosecond light-pulse propagation in a two-dimensional photonic crystal-slab waveguide. <i>Applied Physics Letters</i> , 2004 , 84, 4690-4692	3.4	43

43	Characterization of line-defect-waveguide lasers in two-dimensional photonic-crystal slabs. <i>Applied Physics Letters</i> , 2004 , 84, 5395-5397	3-4	35
42	Tuning holes in photonic-crystal nanocavities (reply). <i>Nature</i> , 2004 , 429, 1-2	50-4	6
41	Room temperature continuous wave operation of a surface-emitting two-dimensional photonic crystal diode laser. <i>Optics Express</i> , 2004 , 12, 1562-8	3-3	122
40	Analysis of a line-defect waveguide on a silicon-on-insulator two-dimensional photonic-crystal slab. <i>Journal of Lightwave Technology</i> , 2004 , 22, 2787-2792	4	21
39	In-plane-type channel drop filter in a two-dimensional photonic crystal slab. <i>Applied Physics Letters</i> , 2004 , 84, 2226-2228	3-4	110
38	Photonic devices based on in-plane hetero photonic crystals. <i>Science</i> , 2003 , 300, 1537	33-3	220
37	High-Q photonic nanocavity in a two-dimensional photonic crystal. <i>Nature</i> , 2003 , 425, 944-7	50-4	1921
36	Investigation of a channel-add/drop-filtering device using acceptor-type point defects in a two-dimensional photonic-crystal slab. <i>Applied Physics Letters</i> , 2003 , 83, 407-409	3-4	30
35	Investigation of high-Q channel drop filters using donor-type defects in two-dimensional photonic crystal slabs. <i>Applied Physics Letters</i> , 2003 , 83, 1512-1514	3-4	102
34	Theoretical investigation of a two-dimensional photonic crystal slab with truncated cone air holes. <i>Applied Physics Letters</i> , 2003 , 82, 1661-1663	3-4	112
33	Design of a channel drop filter by using a donor-type cavity with high-quality factor in a two-dimensional photonic crystal slab. <i>Applied Physics Letters</i> , 2003 , 82, 1341-1343	3-4	83
32	Channel-Add Operation of a Device Using Defects in a Two-Dimensional Photonic Crystal Slab. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 722, 231		
31	Ultra-short pulse propagation in 3D GaAs photonic crystals. <i>Optical and Quantum Electronics</i> , 2002 , 34, 37-43	2-4	6
30	III _V based-semiconductor photonic crystals. <i>Optical and Quantum Electronics</i> , 2002 , 34, 723-736	2-4	3
29	Multidirectionally distributed feedback photonic crystal lasers. <i>Physical Review B</i> , 2002 , 65,	3-3	174
28	Analysis of coupling between two-dimensional photonic crystal waveguide and external waveguide. <i>Applied Physics Letters</i> , 2002 , 81, 3729-3731	3-4	38
27	Wider bandwidth with high transmission through waveguide bends in two-dimensional photonic crystal slabs. <i>Applied Physics Letters</i> , 2002 , 80, 1698-1700	3-4	139
26	Three-Dimensional Photonic Crystal by Utilizing Wafer Fusion Technique.. <i>The Review of Laser Engineering</i> , 2002 , 30, 59-64	0	

25	Ultrafast all optical modulation based on intersubband transition in semiconductor quantum wells. <i>Optical and Quantum Electronics</i> , 2001 , 33, 963-973	2.4	8
24	Carrier relaxation dynamics in an ultrafast all-optical modulator using an intersubband transition. <i>Applied Physics Letters</i> , 2001 , 79, 4509-4511	3.4	14
23	Surface-emitting channel drop filters using single defects in two-dimensional photonic crystal slabs. <i>Applied Physics Letters</i> , 2001 , 79, 2690-2692	3.4	114
22	Polarization mode control of two-dimensional photonic crystal laser by unit cell structure design. <i>Science</i> , 2001 , 293, 1123-5	33.3	452
21	Report on CLEO/QELS 2001. <i>The Review of Laser Engineering</i> , 2001 , 29, 532-548	0	
20	Semiconductor Photonic Crystal and Its Application.. <i>Hyomen Kagaku</i> , 2001 , 22, 715-722		1
19	Trapping and emission of photons by a single defect in a photonic bandgap structure. <i>Nature</i> , 2000 , 407, 608-10	50.4	833
18	Waveguides and waveguide bends in two-dimensional photonic crystal slabs. <i>Physical Review B</i> , 2000 , 62, 4488-4492	3.3	309
17	Full three-dimensional photonic bandgap crystals at near-infrared wavelengths. <i>Science</i> , 2000 , 289, 604-607	33.3	874
16	Pump-probe measurement of ultrafast all-optical modulation based on intersubband transition in n-doped quantum wells. <i>Applied Physics Letters</i> , 2000 , 77, 19-21	3.4	27
15	Pump and probe measurement of intersubband relaxation time in short-wavelength intersubband transition. <i>Applied Physics Letters</i> , 1999 , 74, 1418-1420	3.4	12
14	Highly confined waveguides and waveguide bends in three-dimensional photonic crystal. <i>Applied Physics Letters</i> , 1999 , 75, 3739-3741	3.4	150
13	Optical properties of three-dimensional photonic crystals based on III-V semiconductors at infrared to near-infrared wavelengths. <i>Applied Physics Letters</i> , 1999 , 75, 905-907	3.4	100
12	Semiconductor lasers with one- and two-dimensional air/semiconductor gratings embedded by wafer fusion technique. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1999 , 5, 658-663	3.8	2
11	Characterization of a distributed feedback laser with air/semiconductor gratings embedded by the wafer fusion technique. <i>IEEE Journal of Quantum Electronics</i> , 1999 , 35, 1277-1283	2	9
10	Coherent two-dimensional lasing action in surface-emitting laser with triangular-lattice photonic crystal structure. <i>Applied Physics Letters</i> , 1999 , 75, 316-318	3.4	487
9	Alignment and stacking of semiconductor photonic bandgaps by wafer-fusion. <i>Journal of Lightwave Technology</i> , 1999 , 17, 1948-1955	4	68
8	Compositional inhomogeneity and immiscibility of a GaInN ternary alloy. <i>Applied Physics Letters</i> , 1997 , 71, 906-908	3.4	90

7	Investigation of short wavelength intersubband transitions in InGaAs/AlAs quantum wells on GaAs substrate. <i>Journal of Applied Physics</i> , 1997 , 82, 3385-3391	2.5	29
6	Photoluminescence processes in Si _{1-x} Ge _x /Si disordered superlattices grown on Si(001) substrate. <i>Journal of Applied Physics</i> , 1997 , 82, 392-396	2.5	4
5	Observation of ultrafast all-optical modulation based on intersubband transition in n-doped quantum wells by using free electron laser. <i>Applied Physics Letters</i> , 1996 , 69, 4136-4138	3.4	22
4	Surface-emitting device with embedded circular grating coupler for possible application to optoelectronic integrated devices. <i>IEEE Photonics Technology Letters</i> , 1995 , 7, 1397-1399	2.2	1
3	Trapping of Ultrashort Optical Pulse into Ultra-high-Q Photonic Nanocavity		3
2	Ultra-short pulse propagation in 3D GaAs photonic crystal		1
1	Determination of Nonlinear Optical Efficiencies of Ultrahigh-Q Photonic Crystal Nanocavities with Structural Imperfections. <i>ACS Photonics</i> ,	6.3	0