

Susumu Noda

List of Publications by Year in descending order

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278
papers

18,440
citations

23500

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all docs

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times ranked

8706
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrically controlled on-demand photon transfer between high-Q photonic crystal nanocavities on a silicon chip. <i>Nature Photonics</i> , 2022, 16, 113-118.	15.6	16
2	Dually modulated photonic crystal lasers for wide-range flash illumination. <i>Optics Express</i> , 2022, 30, 26043.	1.7	3
3	General recipe to realize photonic-crystal surface-emitting lasers with 100-W-to-1-kW single-mode operation. <i>Nature Communications</i> , 2022, 13, .	5.8	39
4	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.	15.6	53
5	Photonic-crystal lasers with high-quality narrow-divergence symmetric beams and their application to LiDAR. <i>JPhys Photonics</i> , 2021, 3, 022006.	2.2	42
6	Fabrication and characterization of an L3 nanocavity designed by an iterative machine-learning method. <i>APL Photonics</i> , 2021, 6, .	3.0	11
7	Detection of negatively ionized air by using a Raman silicon nanocavity laser. <i>Optics Express</i> , 2021, 29, 16228.	1.7	11
8	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.	1.7	14
9	Self-consistent analysis of photonic-crystal surface-emitting lasers under continuous-wave operation. <i>Optics Express</i> , 2021, 29, 25118.	1.7	9
10	Integrated Near-Field Thermophotovoltaic Device Overcoming Blackbody Limit. <i>ACS Photonics</i> , 2021, 8, 2466-2472.	3.2	26
11	1.2- μm -band ultrahigh-Q photonic crystal nanocavities and their potential for Raman silicon lasers. <i>Optics Express</i> , 2021, 29, 24396.	1.7	8
12	Light Detection Functionality of Photonic-Crystal Lasers. <i>IEEE Journal of Quantum Electronics</i> , 2021, 57, 1-8.	1.0	3
13	Determination of Nonlinear Optical Efficiencies of Ultrahigh-Q Photonic Crystal Nanocavities with Structural Imperfections. <i>ACS Photonics</i> , 2021, 8, 2839-2845.	3.2	5
14	Photonic Crystal Surface-Emitting Lasers and Their Application to LiDAR. , 2021, , .		2
15	29-W Continuous-Wave Operation of Photonic-Crystal Surface-Emitting Laser (PCSEL). , 2021, , .		5
16	Low-Threshold Single-Mode Lasing from InP-based Double-Lattice Photonic Crystal Surface Emitting Lasers with High-Aspect-Ratio Air Holes. , 2021, , .		0
17	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.	1.9	11
18	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.	16.4	8

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19	High-Efficiency Thermophotovoltaic System That Employs an Emitter Based on a Silicon Rod-Type Photonic Crystal. ACS Photonics, 2020, 7, 80-87.	3.2	29
20	Dually modulated photonic crystals enabling high-power high-beam-quality two-dimensional beam scanning lasers. Nature Communications, 2020, 11, 3487.	5.8	48
21	Statistical evaluation of Q factors of fabricated photonic crystal nanocavities designed by using a deep neural network. Applied Physics Express, 2020, 13, 012002.	1.1	11
22	Thermal management for CW operation of large-area double-lattice photonic-crystal lasers. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 3882.	0.9	14
23	Design of photonic-crystal surface-emitting lasers with enhanced in-plane optical feedback for high-speed operation. Optics Express, 2020, 28, 5050.	1.7	21
24	Continuous-wave lasing operation of 1.3- μ m wavelength InP-based photonic crystal surface-emitting lasers using MOVPE regrowth. Optics Express, 2020, 28, 35483.	1.7	18
25	Quantitative evaluation of enhanced Er luminescence in GaAs-based two-dimensional photonic crystal nanocavities. Applied Physics Letters, 2020, 116, 181102.	1.5	2
26	Tailored Photonic Crystals for Advanced Semiconductor Lasers. , 2020, , .		0
27	Raman Scattering Emission from a Silicon Photonic Nanocavity Excited by a Superluminescent Diode. , 2020, , .		0
28	Progress in Photonic-Crystal Surface-Emitting Lasers. Photonics, 2019, 6, 96.	0.9	29
29	Comprehensive analysis of photonic-crystal surface-emitting lasers via time-dependent three-dimensional coupled-wave theory. Physical Review B, 2019, 99, .	1.1	27
30	Electrical Modulation of Narrowband GaN/AlGaIn Quantum-Well Photonic Crystal Thermal Emitters in Mid-Wavelength Infrared. ACS Photonics, 2019, 6, 1565-1571.	3.2	21
31	On-chip dynamic time reversal of light in a coupled-cavity system. APL Photonics, 2019, 4, 030806.	3.0	5
32	8-W-Peak Self-Pulsating Photonic-Crystal Surface Emitting Laser with Ring-Shaped Saturable Absorber. , 2019, , .		0
33	Dually-Modulated Photonic-Crystal Lasers for Beam Scanning. , 2019, , .		0
34	Modulated photonic-crystal surface-emitting laser with elliptical lattice points for two-dimensional coupling enhancement. AIP Advances, 2019, 9, 115204.	0.6	8
35	Iterative optimization of photonic crystal nanocavity designs by using deep neural networks. Nanophotonics, 2019, 8, 2243-2256.	2.9	41
36	Double-lattice photonic-crystal resonators enabling high-brightness semiconductor lasers with symmetric narrow-divergence beams. Nature Materials, 2019, 18, 121-128.	13.3	157

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37	Ultra-high-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.	4.4	18
38	Ultra-high-Q photonic crystal nanocavities based on 4H silicon carbide. <i>Optica</i> , 2019, 6, 991.	4.8	78
39	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.	1.8	20
40	Progress in Photonic-Crystal Lasers. , 2019, , .		0
41	GaN/AlGaIn photonic crystal narrowband thermal emitters on a semi-transparent low-refractive-index substrate. <i>AIP Advances</i> , 2018, 8, 015221.	0.6	1
42	Wavelength-selective thermal emitters using Si-rods on MgO. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	9
43	7W CW Operation of Double-Lattice Photonic-Crystal Lasers. , 2018, , .		3
44	High-Q-factor nanobeam photonic crystal cavities in bulk silicon carbide. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	20
45	Electrical Control of Middle-Wavelength Infrared Thermal Emission using GaN/AlGaIn Photonic Crystals. , 2018, , .		0
46	Optimization of photonic crystal nanocavities based on deep learning. <i>Optics Express</i> , 2018, 26, 32704.	1.7	144
47	Photonic Crystal Devices in Silicon Photonics. <i>Proceedings of the IEEE</i> , 2018, 106, 2183-2195.	16.4	26
48	Lasing Dynamics of Optically-Pumped Ultralow-Threshold Raman Silicon Nanocavity Lasers. <i>Physical Review Applied</i> , 2018, 10, .	1.5	19
49	Strongly asymmetric wavelength dependence of optical gain in nanocavity-based Raman silicon lasers. <i>Optica</i> , 2018, 5, 1256.	4.8	20
50	Microcrystalline-Silicon Solar Cells With Photonic Crystals on the Top Surface. <i>IEEE Journal of Photovoltaics</i> , 2017, 7, 950-956.	1.5	9
51	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.	1.9	111
52	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, .	1.5	10
53	Enhanced radiative recombination rate for electron-hole droplets in a silicon photonic crystal nanocavity. <i>Physical Review B</i> , 2017, 96, .	1.1	8
54	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.	1.1	5

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55	Photonic Crystal Lasers Fabricated by MOVPE Based on Organic Arsenic Source. IEEE Photonics Technology Letters, 2017, 29, 1739-1742.	1.3	12
56	Elliptical double-hole photonic-crystal surface-emitting lasers. , 2017, , .		2
57	Analysis of high-Q photonic crystal L3 nanocavities designed by visualization of the leaky components. Optics Express, 2017, 25, 367.	1.7	37
58	Ultrahigh-Q photonic crystal nanocavities fabricated by CMOS process technologies. Optics Express, 2017, 25, 18165.	1.7	41
59	Photonic crystal nanocavity with a Q factor exceeding eleven million. Optics Express, 2017, 25, 1769.	1.7	156
60	Fabrication of 3D Photonic Crystals toward Arbitrary Manipulation of Photons in Three Dimensions. Photonics, 2016, 3, 36.	0.9	10
61	Efficient conversion of second harmonic generation in high-Q SiC photonic crystal nanocavities. , 2016, , .		0
62	On-chip integration and high-speed switching of multi-wavelength narrowband thermal emitters. Applied Physics Letters, 2016, 108, .	1.5	24
63	Improvement of out-coupling of the oblique waveguide in three-dimensional photonic crystals by introducing a symmetric end structure. , 2016, , .		0
64	Near-infraredâ€“toâ€“visible highly selective thermal emitters based on an intrinsic semiconductor. Science Advances, 2016, 2, e1600499.	4.7	61
65	Two-wavelength switchable narrowband thermal emitters. , 2016, , .		0
66	Fabrication of photonic-crystal structures by TBAs-based MOVPE for photonic-crystal lasers. , 2016, , .		0
67	Improvement in the quality factors for photonic crystal nanocavities via visualization of the leaky components. Optics Express, 2016, 24, 9541.	1.7	42
68	Fabrication of photonic crystal structures by tertiary-butyl arsine-based metalâ€“organic vapor-phase epitaxy for photonic crystal lasers. Applied Physics Express, 2016, 9, 062702.	1.1	24
69	On-demand transfer of trapped photons on a chip. Science Advances, 2016, 2, e1501690.	4.7	39
70	A sub-microwatt threshold Raman silicon laser using a high-Q nanocavity. , 2015, , .		1
71	Photonic crystal microcrystalline silicon solar cells. Progress in Photovoltaics: Research and Applications, 2015, 23, 1475-1483.	4.4	23
72	Raman shift and strain effect in high-Q photonic crystal silicon nanocavity. Optics Express, 2015, 23, 3951.	1.7	27

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73	High Power, Single Mode, Photonic-Crystal Surface-Emitting Laser. The Review of Laser Engineering, 2015, 43, 447.	0.0	0
74	Breakthroughs in Photonics 2013: A Microwatt-Threshold Raman Silicon Laser. IEEE Photonics Journal, 2014, 6, 1-5.	1.0	5
75	Dynamic control of narrowband thermal emission. , 2014, , .		0
76	Second-harmonic generation in a silicon-carbide-based photonic crystal nanocavity. Optics Letters, 2014, 39, 1768.	1.7	72
77	Structural Optimization of Photonic Crystals for Enhancing Optical Absorption of Thin Film Silicon Solar Cell Structures. IEEE Photonics Journal, 2014, 6, 1-10.	1.0	12
78	Mode stability in photonic-crystal surface-emitting lasers with large $\hat{\rho}$ 1DL. Applied Physics Letters, 2014, 104, .	1.5	16
79	Tandem photonic-crystal thin films surpassing Lambertian light-trapping limit over broad bandwidth and angular range. Applied Physics Letters, 2014, 104, .	1.5	15
80	Watt-class high-power, high-beam-quality photonic-crystal lasers. Nature Photonics, 2014, 8, 406-411.	15.6	429
81	Analytical Perspective for Bound States in the Continuum in Photonic Crystal Slabs. Physical Review Letters, 2014, 113, 037401.	2.9	249
82	Experimental Demonstration of Quasi-resonant Absorption in Silicon Thin Films for Enhanced Solar Light Trapping. ACS Photonics, 2014, 1, 304-309.	3.2	20
83	Photonic crystal nanocavity with a Q-factor of \sim 9 million. Optics Express, 2014, 22, 916.	1.7	173
84	Ultra-compact 32-channel drop filter with 100 GHz spacing. Optics Express, 2014, 22, 4692.	1.7	35
85	Microcrystalline silicon solar cells with photonic crystals. , 2014, , .		0
86	Dynamic control of photonic crystal nanocavities for photon manipulation. IEICE Proceeding Series, 2014, 1, 356-359.	0.0	0
87	Single-peak narrow-bandwidth mid-infrared thermal emitters based on quantum wells and photonic crystals. Applied Physics Letters, 2013, 102, .	1.5	71
88	Enhancement of optical absorption in solar cells by band-edge effect of photonic crystals. I — Formation of multiple bandedges. , 2013, , .		0
89	High power photonic-crystal surface-emitting lasers. , 2013, , .		2
90	Efficient scheme for on-demand light transfer between distant nanocavities. , 2013, , .		0

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91	Tandem photonic-crystal thin films surpassing lambertian light-trapping limit. , 2013, , .		0
92	Far off-resonant coupling between photonic crystal microcavity and single quantum dot with resonant excitation. Applied Physics Letters, 2013, 103, 251113.	1.5	4
93	Electric and magnetic response in a composite system of a dielectric photonic-crystal nanocavity and single metallic nanostructures. , 2013, , .		0
94	Recent progress in photonic crystals and their applications. , 2013, , .		1
95	Enhancement of optical absorption in solar cells by band-edge effect of photonic crystals. II — Topology optimization for further absorption. , 2013, , .		0
96	Three-dimensional coupled-wave theory for triangular-lattice photonic-crystal lasers. , 2013, , .		0
97	Single-mode, narrowband thermal emitters based on quantum wells and photonic crystals. , 2013, , .		0
98	Single mode operation of edge-emitting semiconductor lasers with 2D photonic crystal. , 2013, , .		1
99	Realization of three-dimensional guiding of photons in photonic crystals. Nature Photonics, 2013, 7, 133-137.	15.6	80
100	High-Q resonant modes in a photonic crystal heterostructure nanocavity and applicability to a Raman silicon laser. Physical Review B, 2013, 88, .	1.1	26
101	A micrometre-scale Raman silicon laser with a microwatt threshold. Nature, 2013, 498, 470-474.	13.7	218
102	Accurate alignment of a photonic crystal nanocavity with an embedded quantum dot based on optical microscopic photoluminescence imaging. Applied Physics Letters, 2013, 102, .	1.5	52
103	Adiabatic transfer scheme of light between strongly coupled photonic crystal nanocavities. Physical Review B, 2013, 87, .	1.1	11
104	Air-Hole Retained Growth by Molecular Beam Epitaxy for Fabricating GaAs-Based Photonic-Crystal Lasers. Applied Physics Express, 2013, 6, 042002.	1.1	20
105	Surface nanocavities in 3D photonic crystals. , 2013, , .		1
106	Suppression of multiple photon absorption in a SiC photonic crystal nanocavity operating at 155 μm . Optics Express, 2012, 20, 14789.	1.7	34
107	Three-dimensional coupled-wave analysis for square-lattice photonic crystal surface emitting lasers with transverse-electric polarization: finite-size effects. Optics Express, 2012, 20, 15945.	1.7	81
108	Ultrahigh-Q photonic crystal nanocavities in wide optical telecommunication bands. Optics Express, 2012, 20, 22743.	1.7	33

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109	Enhancement of photocurrent in ultrathin active-layer photodetecting devices with photonic crystals. Applied Physics Letters, 2012, 101, .	1.5	20
110	Needle-like focus generation by radially polarized halo beams emitted by photonic-crystal ring-cavity laser. Applied Physics Letters, 2012, 101, .	1.5	22
111	Centered-rectangular lattice photonic-crystal surface-emitting lasers. Physical Review B, 2012, 85, .	1.1	6
112	Wide-band vertical waveguide for three-dimensional light guiding in photonic crystals. , 2012, , .		0
113	Photocurrent enhancement in ultrathin silicon by the photonic band-edge effect. , 2012, , .		0
114	Partially disordered photonic-crystal thin films for enhanced and robust photovoltaics. Applied Physics Letters, 2012, 100, .	1.5	93
115	Strong coupling between distant photonic nanocavities and its dynamic control. Nature Photonics, 2012, 6, 56-61.	15.6	219
116	Recent progress in manipulation of photons by photonic crystals — Thermal emission control for sensors & energy harvesting. , 2012, , .		0
117	Conversion of broadband to narrowband thermal emission through energy recycling. Nature Photonics, 2012, 6, 535-539.	15.6	256
118	Demonstration of two-dimensional photonic crystals based on silicon carbide. Optics Express, 2011, 19, 11084.	1.7	99
119	Statistical studies of photonic heterostructure nanocavities with an average Q factor of three million. Optics Express, 2011, 19, 11916.	1.7	97
120	Higher-order vector beams produced by photonic-crystal lasers. Optics Express, 2011, 19, 11963.	1.7	82
121	Symmetrically glass-clad photonic crystal nanocavities with ultrahigh quality factors. Optics Letters, 2011, 36, 91.	1.7	22
122	Silicon carbide-based photonic crystal nanocavities for ultra-broadband operation from infrared to visible wavelengths. Applied Physics Letters, 2011, 99, 201102.	1.5	59
123	Three-dimensional coupled-wave model for square-lattice photonic crystal lasers with transverse electric polarization: A general approach. Physical Review B, 2011, 84, .	1.1	101
124	Impact of nonpolar AlGaIn quantum wells on deep ultraviolet laser diodes. Journal of Applied Physics, 2011, 110, 043115.	1.1	23
125	Photonic crystal nanocavities and broad-area cavities. , 2011, , .		0
126	Green GaInN photonic-crystal light-emitting diodes with small surface recombination effect. Applied Physics Letters, 2011, 98, .	1.5	19

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127	Thermal emission control by simultaneous manipulation of electronic and photonic states. , 2011, , .		0
128	Comprehensive investigation of composite photonic-crystal cavities emitting arbitrary-angled laser beams. , 2011, , .		0
129	Observation of strong coupling between distant photonic nanocavities through a waveguide. , 2010, , .		0
130	Coupled-Wave Theory for Square-Lattice Photonic Crystal Lasers With TE Polarization. IEEE Journal of Quantum Electronics, 2010, 46, 788-795.	1.0	47
131	A Polarization Diversity Two-Dimensional Photonic-Crystal Device. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 70-76.	1.9	5
132	On-chip beam-steering photonic-crystal lasers. Nature Photonics, 2010, 4, 447-450.	15.6	199
133	Impact of onpolar plane for deep ultraviolet laser diodes based on AlGa/AlN quantum wells. , 2010, , .		0
134	Reduction in surface recombination and enhancement of light emission in silicon photonic crystals treated by high-pressure water-vapor annealing. Applied Physics Letters, 2010, 97, 121111.	1.5	16
135	Valence band effective mass of non-c-plane nitride heterostructures. Journal of Applied Physics, 2010, 107, .	1.1	10
136	Recent progress in manipulation of photons by photonic crystals. , 2010, , .		0
137	Class-embedded two-dimensional silicon photonic crystal devices with a broad bandwidth waveguide and a high quality nanocavity. Optics Express, 2010, 18, 19361.	1.7	25
138	Air-hole design in a vertical direction for high-power two-dimensional photonic-crystal surface-emitting lasers. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 1204.	0.9	14
139	Enhancement of light emission from silicon by a photonic crystal nanocavity and high-pressure water vapor annealing. , 2010, , .		0
140	Two-dimensional photonic-crystal lasers with centered-rectangular lattice structure. , 2009, , .		0
141	New trends in photonic crystals. , 2009, , .		0
142	GaN Photonic-Crystal Surface-Emitting Laser. Materials Research Society Symposia Proceedings, 2009, 1202, 262.	0.1	0
143	Photonic crystal efficiency boost. Nature Photonics, 2009, 3, 129-130.	15.6	84
144	Effects of fluctuation in air hole radii and positions on optical characteristics in photonic crystal heterostructure nanocavities. Physical Review B, 2009, 79, .	1.1	86

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145	Spectrally selective thermal radiation based on intersubband transitions and photonic crystals. Optics Express, 2009, 17, 19190.	1.7	30
146	Three-dimensional photonic crystals developed by double-angled reactive-ion etching technique. , 2009, , .		0
147	Photon manipulation at the surface of three-dimensional photonic crystals. , 2009, , .		0
148	Time-resolved observation of stopping optical pulses by dynamic Q control of a photonic-crystal nanocavity. , 2009, , .		0
149	Band structure observation of 2D photonic crystal with various V-shaped air-hole arrangements. IEICE Electronics Express, 2009, 6, 966-971.	0.3	14
150	Novel Beam Patterns from Photonic-Crystal Surface-Emitting Laser. The Review of Laser Engineering, 2009, 37, 689-693.	0.0	0
151	Theoretical analysis of light emission from a coupled system of a photonic nanocavity and a quantum dot. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 2828-2830.	0.8	9
152	Resonant-Wavelength Control of Nanocavities by Nanometer-Scaled Adjustment of Two-Dimensional Photonic Crystal Slab Structures. IEEE Photonics Technology Letters, 2008, 20, 532-534.	1.3	23
153	Design of Photonic Crystal Nanocavity With Q -Factor of $\sim 10^9$. Journal of Lightwave Technology, 2008, 26, 1532-1539.	2.7	112
154	Controlling vertical optical confinement in two-dimensional surface-emitting photonic-crystal lasers by shape of air holes. Optics Express, 2008, 16, 18485.	1.7	28
155	GaN Photonic-Crystal Surface-Emitting Laser at Blue-Violet Wavelengths. Science, 2008, 319, 445-447.	6.0	358
156	Ultra-high-Q nanocavities and their dynamic control. , 2008, , .		0
157	Spectral reflectance measurement of two-dimensional photonic nanocavities with embedded quantum dots. , 2008, , .		0
158	Enhanced light emission from silicon photonic crystal nanocavity. , 2008, , .		0
159	Manipulation of Photons by 2D and 3D Photonic Crystals. , 2008, , .		0
160	Recent progress in photonic crystals for manipulation of photons. , 2008, , .		0
161	High-Q cavities in multilayer photonic crystal slabs. , 2008, , .		0
162	Higher-order resonant modes in a photonic heterostructure nanocavity. Applied Physics Letters, 2008, 92, .	1.5	24

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163	GaN photonic-crystal surface-emitting laser operating at blue-violet wavelengths. , 2008, , .		0
164	RECENT ADVANCES IN TWO-DIMENSIONAL PHOTONIC CRYSTALS SLAB STRUCTURE: DEFECT ENGINEERING AND HETEROSTRUCTURE. Nano, 2007, 02, 1-13.	0.5	4
165	Radially Polarized Doughnut Beam Emitted by a Two-Dimensional Photonic-Crystal Laser. , 2007, , .		0
166	High-Power Surface-Emitting Photonic Crystal Laser. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	1
167	Three-Dimensional Photonic Crystals Fabricated by Double-Angled Plasma Etching. , 2007, , .		0
168	Light Emission from Quantum Dots embedded in a Photonic Double-Heterostructure Nanocavity. , 2007, , .		0
169	Cavity-Mode Light Emission in Silicon Photonic Nanocavities at Room Temperature. , 2007, , .		0
170	High-Q Photonic Crystal Nanocavities. , 2007, , .		0
171	High-Precision Alignment and Bonding System for the Fabrication of 3-D Nanostructures. Journal of Microelectromechanical Systems, 2007, 16, 1140-1144.	1.7	25
172	Three-dimensional photonic crystals fabricated by double-angled plasma etching. , 2007, , .		0
173	Dynamic wavelength conversion of an optical pulse traveling in a 2D photonic crystal waveguide. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	3
174	Dynamic Q factor control of photonic crystal nanocavities. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	1
175	Ultra-high-Q Photonic Nanocavities. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
176	High-Q Photonic Crystal Cavities. , 2007, , .		0
177	Dynamic control of the Q factor in a photonic crystal nanocavity. Nature Materials, 2007, 6, 862-865.	13.3	241
178	Spontaneous-emission control by photonic crystals and nanocavities. Nature Photonics, 2007, 1, 449-458.	15.6	842
179	Ultrahigh-Q Nanocavities in Two-Dimensional Photonic Crystal Slabs. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 1123-1134.	1.9	115
180	Three-dimensional photonic crystals based on double-angled etching and wafer-fusion techniques. Applied Physics Letters, 2006, 89, 123106.	1.5	31

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181	Analysis of the experimental Q factors (~ 1 million) of photonic crystal nanocavities. Optics Express, 2006, 14, 1996.	1.7	205
182	Recent Progresses and Future Prospects of Two- and Three-Dimensional Photonic Crystals. Journal of Lightwave Technology, 2006, 24, 4554-4567.	2.7	60
183	Lasers producing tailored beams. Nature, 2006, 441, 946-946.	13.7	261
184	Controlled spontaneous-emission phenomena in semiconductor slabs with a two-dimensional photonic bandgap. Journal of Optics, 2006, 8, S131-S138.	1.5	19
185	Coupled-wave model for square-lattice two-dimensional photonic crystal with transverse-electric-like mode. Applied Physics Letters, 2006, 89, 021101.	1.5	54
186	Controlling spontaneous emission phenomena in defect-free 2D photonic crystals with quantum dots. , 2006, , .		0
187	High-power single-lobed surface-emitting photonic-crystal laser. , 2006, , .		2
188	APPLIED PHYSICS: Seeking the Ultimate Nanolaser. Science, 2006, 314, 260-261.	6.0	212
189	Two-Dimensional Photonic-Crystal Laser. The Review of Laser Engineering, 2006, 34, 736-739.	0.0	0
190	Preface to Special Issue on Development of the Semiconductor Light Emitting Devices Using Nano-Structure. The Review of Laser Engineering, 2006, 34, 735-735.	0.0	0
191	Two-Dimensional Photonic-Crystal Slab Line-Defect Laser. The Review of Laser Engineering, 2006, 34, 740-744.	0.0	0
192	Light Emission Control by Photonic Bandgap. The Review of Laser Engineering, 2006, 34, 761-766.	0.0	0
193	Ultra-high-Q photonic double-heterostructure nanocavity. Nature Materials, 2005, 4, 207-210.	13.3	1,246
194	Dynamic wavelength tuning of channel-drop device in two-dimensional photonic crystal slab. Electronics Letters, 2005, 41, 37.	0.5	34
195	Line-defect waveguide laser integrated with a point defect in a two-dimensional photonic crystal slab. Applied Physics Letters, 2005, 86, 171106.	1.5	19
196	Phase-shift effect on a two-dimensional surface-emitting photonic-crystal laser. Applied Physics Letters, 2005, 86, 111113.	1.5	22
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