Satoshi Iwamoto

List of Publications by Year in descending order

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302 papers	5,547 citations	101543 36 h-index	102487 66 g-index
304 all docs	304 docs citations	304 times ranked	4821 citing authors

#	Article	IF	Citations
1	Synthetic dimension band structures on a Si CMOS photonic platform. Science Advances, 2022, 8, eabk0468.	10.3	19
2	A large-scale single-mode array laser based on a topological edge mode. Nanophotonics, 2022, 11, 2169-2181.	6.0	8
3	Fabrication of three-dimensional photonic crystals for near-infrared light by micro-manipulation technique under optical microscope observation. Applied Physics Express, 2022, 15, 015001.	2.4	5
4	Topological Band Gaps Enlarged in Epsilon-Near-Zero Magneto-Optical Photonic Crystals. ACS Photonics, 2022, 9, 1621-1626.	6.6	11
5	Topologicallyâ€Protected Singleâ€Photon Sources with Topological Slow Light Photonic Crystal Waveguides. Laser and Photonics Reviews, 2022, 16, .	8.7	16
6	Synthetic Dimension Photonics on a Si CMOS Platform. , 2021, , .		0
7	Single photon generation in a topological slow light waveguide. , 2021, , .		0
8	Recent progress in topological waveguides and nanocavities in a semiconductor photonic crystal platform [Invited]. Optical Materials Express, 2021, 11, 319.	3.0	55
9	Experimental demonstration of topological slow light waveguides in valley photonic crystals. Optics Express, 2021, 29, 13441.	3.4	40
10	Microcavity-based generation of full PoincarÃ© beams with arbitrary skyrmion numbers. Physical Review Research, 2021, 3, .	3.6	31
11	All-dielectric chiral-field-enhanced Raman optical activity. Nature Communications, 2021, 12, 3062.	12.8	28
12	Coupling of a single tin-vacancy center to a photonic crystal cavity in diamond. Applied Physics Letters, 2021, 118, .	3.3	35
13	Transmission properties of microwaves at an optical Weyl point in a three-dimensional chiral photonic crystal. Optics Express, 2021, 29, 27127.	3.4	3
14	Design of bullâ€™s-eye optical cavity toward efficient quantum media conversion using gate-defined quantum dot. Japanese Journal of Applied Physics, 2021, 60, 102003.	1.5	8
15	Unidirectional output from a quantum-dot single-photon source hybrid integrated on silicon. Optics Express, 2021, 29, 37117.	3.4	16
16	Chiral modes near exceptional points in symmetry broken H1 photonic crystal cavities. Physical Review Research, 2021, 3, .	3.6	10
17	Fabrication of valley photonic crystals with CMOS-compatible process. , 2021, , .		0
18	Hybrid integrated light sources on silicon assembled by transfer printing. , 2021, , .		0

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19	Semiconductor Topological Nanophotonics. , 2021, , .		0
20	Emission at 1.6â€‰Î¼m from InAs Quantum Dots in Metamorphic InGaAs Matrix. Physica Status Solidi (B): Basic Research, 2020, 257, 1900392.	1.5	7
21	Surface-passivated high-Q GaAs photonic crystal nanocavity with quantum dots. APL Photonics, 2020, 5, .	5.7	29
22	Reflectivity of three-dimensional GaAs photonic band-gap crystals of finite thickness. Physical Review B, 2020, 101, .	3.2	10
23	Fabrication and optical characterization of photonic crystal nanocavities with electrodes for gate-defined quantum dots. Japanese Journal of Applied Physics, 2020, 59, SGGI05.	1.5	6
24	In situ wavelength tuning of quantum-dot single-photon sources integrated on a CMOS-processed silicon waveguide. Applied Physics Letters, 2020, 116, .	3.3	29
25	Slow light waveguides in topological valley photonic crystals. Optics Letters, 2020, 45, 2648.	3.3	91
26	Active topological photonics. Nanophotonics, 2020, 9, 547-567.	6.0	170
27	Slow Light Waveguide Based on Topological Edge States in Valley Photonic Crystals. , 2020, , .		0
28	Strong coupling between a single quantum dot and an L4/3 photonic crystal nanocavity. Applied Physics Express, 2020, 13, 082009.	2.4	2
29	Efficient single photon sources transfer-printed on Si with unidirectional light output. , 2020, , .		0
30	Valley anisotropy in elastic metamaterials. Physical Review B, 2019, 100, .	3.2	25
31	Photoluminescence properties as a function of growth mechanism for GaSb/GaAs quantum dots grown on Ge substrates. Journal of Applied Physics, 2019, 126, .	2.5	3
32	GaAs valley photonic crystal waveguide with light-emitting InAs quantum dots. Applied Physics Express, 2019, 12, 062005.	2.4	39
33	Single Plasmon Generation in an InAs/GaAs Quantum Dot in a Transfer-Printed Plasmonic Microring Resonator. ACS Photonics, 2019, 6, 1106-1110.	6.6	15
34	Strongly Coupled Single-Quantum-Dotâ€“Cavity System Integrated on a CMOS-Processed Silicon Photonic Chip. Physical Review Applied, 2019, 11, .	3.8	38
35	Design of GaAs-based valley phononic crystals with multiple complete phononic bandgaps at ultra-high frequency. Applied Physics Express, 2019, 12, 047001.	2.4	17
36	Quantum-dot single-photon source on a CMOS silicon photonic chip integrated using transfer printing. APL Photonics, 2019, 4, 036105.	5.7	48

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37	Spin-dependent directional emission from a quantum dot ensemble embedded in an asymmetric waveguide. Optics Letters, 2019, 44, 3749.	3.3	3
38	Three-dimensional photonic crystal simultaneously integrating a nanocavity laser and waveguides. Optica, 2019, 6, 296.	9.3	20
39	Photonic crystal nanocavity based on a topological corner state. Optica, 2019, 6, 786.	9.3	274
40	Advances in Quantum Dot Lasers for High Efficiency and High Output Power Operation. The Review of Laser Engineering, 2019, 47, 210.	0.0	0
41	Quantum-dot single-photon source on a CMOS-processed silicon waveguide. , 2019, , .		0
42	An On-chip Full PoincarÃ© Beam Emitter Based on an Optical Micro-ring Cavity. , 2019, , .		1
43	Hybrid integration of quantum dot-nanocavity systems on silicon. , 2019, , .		0
44	Nanocavity based on a topological corner state in a two-dimensional photonic crystal. , 2019, , .		2
45	Topological Photonic Crystal Nanocavities. The Review of Laser Engineering, 2019, 47, 351.	0.0	0
46	Local tuning of transfer-printed quantum-dot single-photon sources on a CMOS silicon chip. , 2019, , .		0
47	Large vacuum Rabi splitting between a single quantum dot and an H0 photonic crystal nanocavity. Applied Physics Letters, 2018, 112, .	3.3	27
48	Topologically protected elastic waves in one-dimensional phononic crystals of continuous media. Applied Physics Express, 2018, 11, 017201.	2.4	27
49	Enhanced photoelastic modulation in silica phononic crystal cavities. Japanese Journal of Applied Physics, 2018, 57, 042002.	1.5	0
50	Topological photonic crystal nanocavity laser. Communications Physics, 2018, 1, .	5.3	154
51	InAs/GaAs quantum dot infrared photodetectors on onâ€axis Si (100) substrates. Electronics Letters, 2018, 54, 1395-1397.	1.0	9
52	Circularly Polarized Topological Edge States Derived from Optical Weyl Points in Semiconductor-Based Chiral Woodpile Photonic Crystals. Journal of the Physical Society of Japan, 2018, 87, 123401.	1.6	15
53	Two dimensional photonic crystal nanocavities with InAs/GaAs quantum dot active regions embedded by MBE regrowth. Japanese Journal of Applied Physics, 2018, 57, 08PD03.	1.5	1
54	Nanowireâ€“quantum-dot lasers on flexible membranes. Applied Physics Express, 2018, 11, 065002.	2.4	7

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55	Highâ€•Q nanocavities in semiconductorâ€based threeâ€dimensional photonic crystals. Electronics Letters, 2018, 54, 305-307.	1.0	6
56	Advanced Photonic Crystal Nanocavity Quantum Dot Lasers. IEICE Transactions on Electronics, 2018, E101.C, 553-560.	0.6	1
57	Transfer-printed single-photon sources coupled to wire waveguides. Optica, 2018, 5, 691.	9.3	76
58	Time-resolved vacuum Rabi oscillations in a quantum-dotâ€“nanocavity system. Physical Review B, 2018, 97, .	3.2	11
59	Phonon Lifetime Observation in Epitaxial ScN Film with Inelastic X-Ray Scattering Spectroscopy. Physical Review Letters, 2018, 120, 235901.	7.8	23
60	Observation of infrared absorption of InAs quantum dot structures in AlGaAs matrix toward high-efficiency solar cells. Japanese Journal of Applied Physics, 2018, 57, 062001.	1.5	6
61	Transfer-printed quantum-dot nanolasers on a silicon photonic circuit. Applied Physics Express, 2018, 11, 072002.	2.4	24
62	Scheme for media conversion between electronic spin and photonic orbital angular momentum based on photonic nanocavity. Optics Express, 2018, 26, 21219.	3.4	8
63	Quantum-dot nanolasers on Si photonic circuits. , 2018, , .		0
64	Topological confinement of light in photonic crystals. , 2018, , .		0
65	Lasing in a topological photonic crystal nanocavity. , 2018, , .		0
66	Quantum dot single photon sources transfer-printed on wire waveguides. , 2018, , .		0
67	Growth of InGaAs/GaAs nanowire-quantum dots on AlGaAs/GaAs distributed Bragg reflectors for laser applications. Journal of Crystal Growth, 2017, 468, 144-148.	1.5	13
68	Enhanced optical Stark shifts in a single quantum dot embedded in an H1 photonic crystal nanocavity. Applied Physics Express, 2017, 10, 062002.	2.4	3
69	Optical coupling between atomically thin black phosphorus and a two dimensional photonic crystal nanocavity. Applied Physics Letters, 2017, 110, .	3.3	13
70	Demonstration of lasing oscillation in a plasmonic microring resonator containing quantum dots fabricated by transfer printing. Japanese Journal of Applied Physics, 2017, 56, 102001.	1.5	5
71	Manipulation of dynamic nuclear spin polarization in single quantum dots by photonic environment engineering. Physical Review B, 2017, 95, .	3.2	3
72	Temperature dependence of the biaxial tensile strain in suspended Ge cross-shaped microstructures. Japanese Journal of Applied Physics, 2017, 56, 06GF04.	1.5	0

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73	Method for generating a photonic NOON state with quantum dots in coupled nanocavities. Physical Review A, 2017, 96, .	2.5	15
74	Circularly polarized vacuum field in three-dimensional chiral photonic crystals probed by quantum dot emission. Physical Review B, 2017, 96, .	3.2	13
75	UV/Ozone-assisted bonding for InAs/GaAs quantum dot lasers on Si. , 2017, , .		1
76	A photonic crystal nanocavity with a quantum dot active region embedded by MBE regrowth. , 2017, , .		1
77	Imaging of topologically protected elastic mode in silica 1D phononic crystal via photoelastic effect. , 2017, , .		0
78	Thresholdless quantum dot nanolaser. Optics Express, 2017, 25, 19981.	3.4	53
79	Optical Weyl Points below the Light Line in Semiconductor Chiral Woodpile Photonic Crystals. , 2017, , .		1
80	Guiding of laser light from a nanocavity in a three-dimensional photonic crystal. , 2017, , .		0
81	Time-Domain Observation of Vacuum Rabi Oscillations in a Strongly Coupled Quantum Dot-Nanocavity System. , 2017, , .		0
82	Thresholdless lasing with quantum dot gain. , 2017, , .		0
83	Tensile strain engineering of germanium micro-disks on free-standing SiO₂ beams. Japanese Journal of Applied Physics, 2016, 55, 04EH02.	1.5	14
84	Semiconductor Three-Dimensional Photonic Crystals with Novel Layer-by-Layer Structures. Photonics, 2016, 3, 34.	2.0	6
85	Self-assembled formation of GaAsP nano-apertures above InAs/GaAs quantum dots by the thermal diffusion of phosphorus. Physica Status Solidi (B): Basic Research, 2016, 253, 659-663.	1.5	2
86	InAs/GaAs quantum dot lasers with GaP strain-compensation layers grown by molecular beam epitaxy. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 958-964.	1.8	8
87	A hybrid silicon evanescent quantum dot laser. Applied Physics Express, 2016, 9, 092102.	2.4	26
88	Design of quasi-one-dimensional phononic crystal cavity for efficient photoelastic modulation. Japanese Journal of Applied Physics, 2016, 55, 08RD02.	1.5	0
89	A Nanowire-Based Plasmonic Quantum Dot Laser. Nano Letters, 2016, 16, 2845-2850.	9.1	64
90	Crystallinity improvements of Ge waveguides fabricated by epitaxial lateral overgrowth. Japanese Journal of Applied Physics, 2016, 55, 04EH06.	1.5	5

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91	Direct modulation of InAs/GaAs quantum dot lasers on silicon at 60 Â°C. , 2016, , .		1
92	Large modulation bandwidth (13.1 GHz) of 1.3 Âµm-range quantum dot lasers with high dot density and thin barrier layer. , 2016, , .		1
93	Direct modulation of 13 Î¼m quantum dot lasers on silicon at 60 Â°C. Optics Express, 2016, 24, 18428.	3.4	25
94	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>p</mml:mi></mml:math>-shell carrier assisted dynamic nuclear spin polarization in single quantum dots at zero external magnetic field. Physical Review B, 2016, 93, .	3.2	3
95	(Invited) Fabrication of Ge Waveguides by Epitaxial Lateral Overgrowth toward Monolithic Integration of Light Sources. ECS Transactions, 2016, 75, 199-209.	0.5	1
96	Position dependent optical coupling between single quantum dots and photonic crystal nanocavities. Applied Physics Letters, 2016, 109, .	3.3	23
97	Active zinc-blende IIIâ€“nitride photonic structures on silicon. Applied Physics Express, 2016, 9, 012002.	2.4	7
98	Suspended germanium cross-shaped microstructures for enhancing biaxial tensile strain. Japanese Journal of Applied Physics, 2016, 55, 04EH14.	1.5	3
99	Control of Light Polarization using Photonic and Phononic Crystals. , 2016, , .		0
100	Effect of metal side claddings on emission decay rates of single quantum dots embedded in a sub-wavelength semiconductor waveguide. Japanese Journal of Applied Physics, 2016, 55, 08RC02.	1.5	0
101	Influence of the relative positions of quantum dots and nanocavities on the optical coupling strength. , 2015, , .		0
102	Eigenvalue decomposition method for photon statistics of frequency-filtered fields and its application to quantum dot emitters. Physical Review A, 2015, 92, .	2.5	9
103	Circularly Polarized Light Emission of Quantum Dots at the Band Edge of Three-Dimensional Chiral Photonic Crystals. , 2015, , .		0
104	Demonstration of a three-dimensional photonic crystal nanocavity in a âŸ¨110âŸ©-layered diamond structure. Applied Physics Letters, 2015, 107, .	3.3	9
105	Spontaneous and stimulated Raman scattering in silica-cladded silicon photonic crystal waveguides. Japanese Journal of Applied Physics, 2015, 54, 04DG02.	1.5	3
106	Whispering Gallery Mode Resonances from Ge Micro-Disks on Suspended Beams. Frontiers in Materials, 2015, 2, .	2.4	23
107	Localized Guided-Mode and Cavity-Mode Double Resonance in Photonic Crystal Nanocavities. Physical Review Applied, 2015, 3, .	3.8	14
108	Design of efficient photo-elastic modulator using quasi-1D phononic crystal cavity. , 2015, , .		0

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109	Effect of metal side claddings on emission decay rate of single quantum dots embedded in a subwavelength semiconductor waveguide. , 2015, , .		0
110	Fabrication of Ge micro-disks on free-standing SiO2 beams for monolithic light emission. , 2015, , .		1
111	Low-Threshold near-Infrared GaAsâ€“AlGaAs Coreâ€“Shell Nanowire Plasmon Laser. ACS Photonics, 2015, 2, 165-171.	6.6	92
112	Vacuum Rabi Spectra of a Single Quantum Emitter. Physical Review Letters, 2015, 114, 143603.	7.8	31
113	Room-temperature lasing in a single nanowire with quantum dots. Nature Photonics, 2015, 9, 501-505.	31.4	159
114	Spin-on doping of germanium-on-insulator wafers for monolithic light sources on silicon. Japanese Journal of Applied Physics, 2015, 54, 052101.	1.5	8
115	InAs/GaAs Quantum Dot Lasers on Silicon-on-Insulator Substrates by Metal-Stripe Wafer Bonding. IEEE Photonics Technology Letters, 2015, 27, 875-878.	2.5	26
116	High quality-factor Si/SiO_2-InP hybrid micropillar cavities with submicrometer diameter for 155-Î¼m telecommunication band. Optics Express, 2015, 23, 16264.	3.4	10
117	Room-temperature lasing in GaAs nanowires embedding multi-stacked InGaAs/GaAs quantum dots. , 2015, , .		1
118	Asymmetric out-of-plane power distribution in a two-dimensional photonic crystal nanocavity. Optics Letters, 2015, 40, 3372.	3.3	8
119	Germanium Photonic Crystal Nanobeam Cavity with Q > 1,300. , 2015, , .		1
120	1.3-Î¼m InAs/GaAs Quantum Dot Lasers on Silicon-on-Insulator Substrates by Metal-Stripe Bonding. , 2015, , .		0
121	Single Emitter Vacuum Rabi Splitting Measured Through Direct Free Space Spontaneous Emission. , 2015, , .		0
122	Temperature dependency of the emission properties from positioned In(Ga)As/GaAs quantum dots. AIP Advances, 2014, 4, .	1.3	9
123	Measurement of the Second Order Coherence of a Nanolaser Through Its Intra-cavity Second Harmonic Generation. , 2014, , .		0
124	Design of efficient surface plasmon polariton modulators using graphene. Japanese Journal of Applied Physics, 2014, 53, 08MG01.	1.5	4
125	Ultralow mode-volume photonic crystal nanobeam cavities for high-efficiency coupling to individual carbon nanotube emitters. Nature Communications, 2014, 5, 5580.	12.8	103
126	Circular dichroism in a three-dimensional semiconductor chiral photonic crystal. Applied Physics Letters, 2014, 105, .	3.3	38

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127	Impact of the dark path on quantum dot single photon emitters in small cavities. Physical Review Letters, 2014, 113, 143604.	7.8	5
128	Highly uniform, multi-stacked InGaAs/GaAs quantum dots embedded in a GaAs nanowire. Applied Physics Letters, 2014, 105, .	3.3	26
129	Design of a three-dimensional photonic crystal nanocavity based on a $langle 110angle $-layered diamond structure. Japanese Journal of Applied Physics, 2014, 53, 04EG08.	1.5	8
130	InAs/GaAs quantum dot lasers metal-stripe-bonded onto SOI substrate. , 2014, , .		1
131	Measuring the second-order coherence of a nanolaser by intracavity frequency doubling. Physical Review A, 2014, 89, .	2.5	11
132	Group IV Light Sources to Enable the Convergence of Photonics and Electronics. Frontiers in Materials, 2014, 1, .	2.4	33
133	Design of slow-light grating waveguides for silicon Raman amplifier. , 2013, , .		2
134	Growth of highâ€quality InAs quantum dots embedded in GaAs nanowire structures on Si substrates. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1496-1499.	0.8	6
135	Improvement of photoluminescence from ge waveguides fabricated by low temperature selective epitaxial growth and rapid thermal annealing. , 2013, , .		2
136	Self-frequency summing in photonic crystal nanocavity quantum dot lasers. , 2013, , .		0
137	Nonlinear photonics in single quantum dot-photonic crystal nanocavity couples systems. , 2013, , .		0
138	Rim formation on non-elongated InAs quantum dots grown by partial cap and annealing process at low temperature. Journal of Crystal Growth, 2013, 378, 558-561.	1.5	1
139	Non-VLS growth of GaAs nanowires on silicon by a gallium pre-deposition technique. Journal of Crystal Growth, 2013, 378, 562-565.	1.5	3
140	Large vacuum Rabi splitting in an H0 photonic crystal nanocavity-quantum dot system. , 2013, , .		0
141	Formation and optical properties of multi-stack InGaAs quantum dots embedded in GaAs nanowires by selective metalorganic chemical vapor deposition. Journal of Crystal Growth, 2013, 370, 299-302.	1.5	5
142	Shape evolution of low density InAs quantum dots in the partial capping process by using As2 source. Journal of Crystal Growth, 2013, 378, 549-552.	1.5	2
143	Design of large-bandwidth single-mode operation waveguides in silicon three-dimensional photonic crystals using two guided modes. Optics Express, 2013, 21, 12443.	3.4	3
144	Nanocavity-based self-frequency conversion laser. Optics Express, 2013, 21, 19778.	3.4	21

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145	Giant optical rotation in a three-dimensional semiconductor chiral photonic crystal. Optics Express, 2013, 21, 29905.	3.4	23
146	Design of Si/SiO_2 micropillar cavities for Purcell-enhanced single photon emission at 155ÂÎ¼m from InAs/InP quantum dots. Optics Letters, 2013, 38, 3241.	3.3	16
147	Wide range Q-factor control in a photonic crystal nanobeam cavity incorporating quantum dots. , 2013, , .		0
148	Design of Silicon Photonic Crystal Waveguides for High Gain Raman Amplification Using Two Symmetric Transvers-Electric-Like Slow-Light Modes. Japanese Journal of Applied Physics, 2013, 52, 04CG03.	1.5	4
149	Self-frequency summing in quantum dot photonic crystal nanocavity lasers. Applied Physics Letters, 2013, 103, 243115.	3.3	7
150	Electro-Mechanical Q Factor Control of Photonic Crystal Nanobeam Cavity. Japanese Journal of Applied Physics, 2013, 52, 04CG01.	1.5	6
151	Enhancement of Valence Band Mixing in Individual InAs/GaAs Quantum Dots by Rapid Thermal Annealing. Japanese Journal of Applied Physics, 2013, 52, 125001.	1.5	9
152	Multi-color visible light generation by self-frequency doubling in photonic crystal nanocavity quantum dot lasers. , 2013, , .		0
153	Design of highâ€Q nanocavity in threeâ€dimensional woodpile photonic crystal with vertically mirrorâ€symmetric structure. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1457-1460.	0.8	1
154	Highâ€Q AlN ladderâ€structure photonic crystal nanocavity fabricated by layer transfer. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1517-1520.	0.8	5
155	Cavity Quantum Electrodynamics in Semiconductors: Quantum Dot-Photonic Crystal Nanocavity Coupled Systems. The Review of Laser Engineering, 2013, 41, 485.	0.0	0
156	A three-dimensional silicon photonic crystal nanocavity with enhanced emission from embedded germanium islands. New Journal of Physics, 2012, 14, 083035.	2.9	11
157	Formation of a single In(Ga)As/GaAs quantum dot embedded in a site-controlled GaAs nanowire by metalorganic chemical vapor deposition for application to single photon sources. Materials Research Society Symposia Proceedings, 2012, 1439, 115-119.	0.1	0
158	Fabrication of AlGaN Two-Dimensional Photonic Crystal Nanocavities by Selective Thermal Decomposition of GaN. Applied Physics Express, 2012, 5, 126502.	2.4	38
159	Wavelength Tunable Quantum Dot Single-Photon Source with a Side Gate. Japanese Journal of Applied Physics, 2012, 51, 02BJ05.	1.5	0
160	High Q H1 photonic crystal nanocavities with efficient vertical emission. Optics Express, 2012, 20, 28292.	3.4	39
161	2D and 3D photonic crystal nanocavity lasers with quantum dot gain. , 2012, , .		0
162	High guided modeâ€“cavity mode coupling for an efficient extraction of spontaneous emission of a single quantum dot embedded in a photonic crystal nanobeam cavity. Physical Review B, 2012, 86, .	3.2	12

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163	Site-controlled formation of InAs/GaAs quantum-dot-in-nanowires for single photon emitters. Applied Physics Letters, 2012, 100, .	3.3	47
164	Enhancement of carbon nanotube photoluminescence by photonic crystal nanocavities. Applied Physics Letters, 2012, 101, 141124.	3.3	53
165	High-Q (>5000) AlN nanobeam photonic crystal cavity embedding GaN quantum dots. Applied Physics Letters, 2012, 100, .	3.3	24
166	Optical Properties of Site-Controlled InGaAs Quantum Dots Embedded in GaAs Nanowires by Selective Metalorganic Chemical Vapor Deposition. Japanese Journal of Applied Physics, 2012, 51, 11PE13.	1.5	1
167	1.3â€‰Î¼m InAs/GaAs quantum dot lasers on Si substrates by low-resistivity, Au-free metal-mediated wafer bonding. Journal of Applied Physics, 2012, 112, 033107.	2.5	13
168	Enhancement of Light Emission from Silicon by Utilizing Photonic Nanostructures. IEICE Transactions on Electronics, 2012, E95-C, 206-212.	0.6	5
169	Silicon-based three-dimensional photonic crystal nanocavity laser with InAs quantum-dot gain. Applied Physics Letters, 2012, 101, .	3.3	8
170	Intra-cavity frequency doubling in photonic crystal nanocavity quantum dot lasers. , 2012, , .		1
171	Single quantum dot-photonic crystal nanocavity laser. , 2012, , .		0
172	Cavity Quantum Electrodynamics and Lasing Oscillation in Single Quantum Dot-Photonic Crystal Nanocavity Coupled Systems. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1818-1829.	2.9	31
173	High-Q AlN photonic crystal nanobeam cavities fabricated by layer transfer. Applied Physics Letters, 2012, 101, .	3.3	29
174	Influence of p-doping on the temperature dependence of InAs/GaAs quantum dot excited state radiative lifetime. Applied Physics Letters, 2012, 101, .	3.3	6
175	Wavelength Tunable Quantum Dot Single-Photon Source with a Side Gate. Japanese Journal of Applied Physics, 2012, 51, 02BJ05.	1.5	2
176	Optical Properties of Site-Controlled InGaAs Quantum Dots Embedded in GaAs Nanowires by Selective Metalorganic Chemical Vapor Deposition. Japanese Journal of Applied Physics, 2012, 51, 11PE13.	1.5	2
177	Proposal and design of III-V/Si hybrid lasers with current injection across conductive wafer-bonded heterointerfaces. , 2011, , .		0
178	Effect of cavity mode volume on photoluminescence from silicon photonic crystal nanocavities. Applied Physics Letters, 2011, 98, .	3.3	32
179	Circularly Polarized Light Emission from Semiconductor Planar Chiral Nanostructures. Physical Review Letters, 2011, 106, 057402.	7.8	147
180	Novel III-V/Si hybrid laser structures with current injection across conductive wafer-bonded heterointerfaces: A proposal and analysis. IEICE Electronics Express, 2011, 8, 596-603.	0.8	11

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181	Lasing Characteristics of a Quantum-Dot-3D-Photonic-Crystal-Nanocavity Coupled System: Interaction between Fully Confined Electrons and Photons. AIP Conference Proceedings, 2011, , .	0.4	0
182	Lasing oscillation in a three-dimensional photonic crystal nanocavity with a complete bandgap. Nature Photonics, 2011, 5, 91-94.	31.4	173
183	Spontaneous Two-Photon Emission from a Single Quantum Dot. Physical Review Letters, 2011, 107, 233602.	7.8	124
184	New method to isolate and distribute photoluminescence emissions from InAs quantum dots over a wide-wavelength range. Journal of Crystal Growth, 2011, 323, 250-253.	1.5	2
185	Design of a highâ€Q H0 photonic crystal nanocavity for cavity QED. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 340-342.	0.8	4
186	Fabrication of electrically pumped InAs/GaAs quantum dot lasers on Si substrates by Auâ€mediated wafer bonding. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 319-321.	0.8	7
187	Effects of growth temperature of partial GaAs cap on InAs quantum dots in Inâ€flush process for single dot spectroscopy. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 248-250.	0.8	7
188	Fabrication of high-Q silicon-based three-dimensional photonic crystal nanocavity and its lasing oscillation with InAs quantum-dot gain. , 2011, , .		1
189	Observation of Purcell effect in a 3D photonic crystal nanocavity with a single quantum dot. , 2011, , .		1
190	Strong coupling between a photonic crystal nanobeam cavity and a single quantum dot. Applied Physics Letters, 2011, 98, .	3.3	84
191	Competing influence of an in-plane electric field on the Stark shifts in a semiconductor quantum dot. Applied Physics Letters, 2011, 99, 181109.	3.3	5
192	Neutralization of positively charged excitonic state in single InAs quantum dot by Si delta doping. Journal of Physics: Conference Series, 2010, 245, 012088.	0.4	4
193	Advances in 3D photonic crystal nanocavity with quantum dots. , 2010, , .		0
194	Esaki diodes live and learn. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2010, 86, 451-453.	3.8	2
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