

Satoshi Iwamoto

List of Publications by Year in descending order

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302
papers

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304
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304
docs citations

304
times ranked

4821
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser oscillation in a strongly coupled single-quantum-dot nanocavity system. <i>Nature Physics</i> , 2010, 6, 279-283.	16.7	300
2	Photonic crystal nanocavity based on a topological corner state. <i>Optica</i> , 2019, 6, 786.	9.3	274
3	Room temperature continuous-wave lasing in photonic crystal nanocavity. <i>Optics Express</i> , 2006, 14, 6308.	3.4	186
4	Lasing oscillation in a three-dimensional photonic crystal nanocavity with a complete bandgap. <i>Nature Photonics</i> , 2011, 5, 91-94.	31.4	173
5	Active topological photonics. <i>Nanophotonics</i> , 2020, 9, 547-567.	6.0	170
6	Coupling of quantum-dot light emission with a three-dimensional photonic-crystal nanocavity. <i>Nature Photonics</i> , 2008, 2, 688-692.	31.4	166
7	Room-temperature lasing in a single nanowire with quantum dots. <i>Nature Photonics</i> , 2015, 9, 501-505.	31.4	159
8	Topological photonic crystal nanocavity laser. <i>Communications Physics</i> , 2018, 1, .	5.3	154
9	Circularly Polarized Light Emission from Semiconductor Planar Chiral Nanostructures. <i>Physical Review Letters</i> , 2011, 106, 057402.	7.8	147
10	Spontaneous Two-Photon Emission from a Single Quantum Dot. <i>Physical Review Letters</i> , 2011, 107, 233602.	7.8	124
11	Resonant third-order optical nonlinearity in the layered perovskite-type material (C ₆ H ₁₃ NH ₃) ₂ PbI ₄ . <i>Solid State Communications</i> , 1998, 105, 503-506.	1.9	114
12	Photonic crystal nanocavity laser with a single quantum dot gain. <i>Optics Express</i> , 2009, 17, 15975.	3.4	110
13	Ultralow mode-volume photonic crystal nanobeam cavities for high-efficiency coupling to individual carbon nanotube emitters. <i>Nature Communications</i> , 2014, 5, 5580.	12.8	103
14	Exciton and biexciton luminescence from single hexagonal GaN/AlN self-assembled quantum dots. <i>Applied Physics Letters</i> , 2004, 85, 64-66.	3.3	92
15	Low-Threshold near-Infrared GaAs/AlGaAs Core/Shell Nanowire Plasmon Laser. <i>ACS Photonics</i> , 2015, 2, 165-171.	6.6	92
16	Slow light waveguides in topological valley photonic crystals. <i>Optics Letters</i> , 2020, 45, 2648.	3.3	91
17	Electrically pumped 13 μm room-temperature InAs/GaAs quantum dot lasers on Si substrates by metal-mediated wafer bonding and layer transfer. <i>Optics Express</i> , 2010, 18, 10604.	3.4	84
18	Strong coupling between a photonic crystal nanobeam cavity and a single quantum dot. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	84

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19	Transfer-printed single-photon sources coupled to wire waveguides. <i>Optica</i> , 2018, 5, 691.	9.3	76
20	A Nanowire-Based Plasmonic Quantum Dot Laser. <i>Nano Letters</i> , 2016, 16, 2845-2850.	9.1	64
21	Observation of enhanced photoluminescence from silicon photonic crystal nanocavity at room temperature. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	60
22	AlN air-bridge photonic crystal nanocavities demonstrating high quality factor. <i>Applied Physics Letters</i> , 2007, 91, 051106.	3.3	55
23	Room temperature continuous wave operation of InAs/GaAs quantum dot photonic crystal nanocavity laser on silicon substrate. <i>Optics Express</i> , 2009, 17, 7036.	3.4	55
24	Recent progress in topological waveguides and nanocavities in a semiconductor photonic crystal platform [Invited]. <i>Optical Materials Express</i> , 2021, 11, 319.	3.0	55
25	Enhancement of carbon nanotube photoluminescence by photonic crystal nanocavities. <i>Applied Physics Letters</i> , 2012, 101, 141124.	3.3	53
26	Thresholdless quantum dot nanolaser. <i>Optics Express</i> , 2017, 25, 19981.	3.4	53
27	Temporal coherence of a photonic crystal nanocavity laser with high spontaneous emission coupling factor. <i>Physical Review B</i> , 2007, 75, .	3.2	49
28	Quantum-dot single-photon source on a CMOS silicon photonic chip integrated using transfer printing. <i>APL Photonics</i> , 2019, 4, 036105.	5.7	48
29	Site-controlled formation of InAs/GaAs quantum-dot-in-nanowires for single photon emitters. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	47
30	Room temperature continuous wave lasing in InAs quantum-dot microdisks with air cladding. <i>Optics Express</i> , 2005, 13, 1615.	3.4	44
31	High-Q design of semiconductor-based ultrasmall photonic crystal nanocavity. <i>Optics Express</i> , 2010, 18, 8144.	3.4	43
32	Vacuum Rabi splitting with a single quantum dot embedded in a H1 photonic crystal nanocavity. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	41
33	Experimental demonstration of topological slow light waveguides in valley photonic crystals. <i>Optics Express</i> , 2021, 29, 13441.	3.4	40
34	High Q H1 photonic crystal nanocavities with efficient vertical emission. <i>Optics Express</i> , 2012, 20, 28292.	3.4	39
35	GaAs valley photonic crystal waveguide with light-emitting InAs quantum dots. <i>Applied Physics Express</i> , 2019, 12, 062005.	2.4	39
36	Two-Dimensional Photonic Crystal Resist Membrane Nanocavity Embedding Colloidal Dot-in-a-Rod Nanocrystals. <i>Nano Letters</i> , 2008, 8, 260-264.	9.1	38

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37	Fabrication of AlGaIn Two-Dimensional Photonic Crystal Nanocavities by Selective Thermal Decomposition of GaN. Applied Physics Express, 2012, 5, 126502.	2.4	38
38	Circular dichroism in a three-dimensional semiconductor chiral photonic crystal. Applied Physics Letters, 2014, 105, .	3.3	38
39	Strongly Coupled Single-Quantum-Dot Cavity System Integrated on a CMOS-Processed Silicon Photonic Chip. Physical Review Applied, 2019, 11, .	3.8	38
40	Increase of Q-factor in photonic crystal H1-defect nanocavities after closing of photonic bandgap with optimal slab thickness. Optics Express, 2008, 16, 448.	3.4	36
41	Demonstration of high-Q (>8600) three-dimensional photonic crystal nanocavity embedding quantum dots. Applied Physics Letters, 2009, 94, .	3.3	35
42	Coupling of a single tin-vacancy center to a photonic crystal cavity in diamond. Applied Physics Letters, 2021, 118, .	3.3	35
43	Enhanced light emission from an organic photonic crystal with a nanocavity. Applied Physics Letters, 2005, 87, 151119.	3.3	34
44	Group IV Light Sources to Enable the Convergence of Photonics and Electronics. Frontiers in Materials, 2014, 1, .	2.4	33
45	Effect of cavity mode volume on photoluminescence from silicon photonic crystal nanocavities. Applied Physics Letters, 2011, 98, .	3.3	32
46	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
47	Vacuum Rabi Spectra of a Single Quantum Emitter. Physical Review Letters, 2015, 114, 143603.	7.8	31
48	Microcavity-based generation of full Poincaré beams with arbitrary skyrmion numbers. Physical Review Research, 2021, 3, .	3.6	31
49	Lasing characteristics of InAs quantum-dot microdisk from 3K to room temperature. Applied Physics Letters, 2004, 85, 1326-1328.	3.3	30
50	Enhanced Luminance Efficiency of Organic Light-Emitting Diodes with Two-Dimensional Photonic Crystals. Japanese Journal of Applied Physics, 2005, 44, 2844-2848.	1.5	30
51	High-Q AlN photonic crystal nanobeam cavities fabricated by layer transfer. Applied Physics Letters, 2012, 101, .	3.3	29
52	Surface-passivated high-Q GaAs photonic crystal nanocavity with quantum dots. APL Photonics, 2020, 5, .	5.7	29
53	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
54	All-dielectric chiral-field-enhanced Raman optical activity. Nature Communications, 2021, 12, 3062.	12.8	28

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55	Highly efficient optical pumping of photonic crystal nanocavity lasers using cavity resonant excitation. Applied Physics Letters, 2006, 89, 161111.	3.3	27
56	Large vacuum Rabi splitting between a single quantum dot and an H0 photonic crystal nanocavity. Applied Physics Letters, 2018, 112, .	3.3	27
57	Topologically protected elastic waves in one-dimensional phononic crystals of continuous media. Applied Physics Express, 2018, 11, 017201.	2.4	27
58	Highly uniform, multi-stacked InGaAs/GaAs quantum dots embedded in a GaAs nanowire. Applied Physics Letters, 2014, 105, .	3.3	26
59	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
60	A hybrid silicon evanescent quantum dot laser. Applied Physics Express, 2016, 9, 092102.	2.4	26
61	Third-Order Optical Nonlinearity Due to Excitons and Biexcitons in a Self-Organized Quantum-Well Material (C ₆ H ₁₃ NH ₃) ₂ PbI ₄ . Journal of Nonlinear Optical Physics and Materials, 1998, 07, 153-159.	1.8	25
62	Direct modulation of 13 μ m quantum dot lasers on silicon at 60 \AA °C. Optics Express, 2016, 24, 18428.	3.4	25
63	Valley anisotropy in elastic metamaterials. Physical Review B, 2019, 100, .	3.2	25
64	High-Q (>5000) AlN nanobeam photonic crystal cavity embedding GaN quantum dots. Applied Physics Letters, 2012, 100, .	3.3	24
65	Transfer-printed quantum-dot nanolasers on a silicon photonic circuit. Applied Physics Express, 2018, 11, 072002.	2.4	24
66	Giant optical rotation in a three-dimensional semiconductor chiral photonic crystal. Optics Express, 2013, 21, 29905.	3.4	23
67	Whispering Gallery Mode Resonances from Ge Micro-Disks on Suspended Beams. Frontiers in Materials, 2015, 2, .	2.4	23
68	Position dependent optical coupling between single quantum dots and photonic crystal nanocavities. Applied Physics Letters, 2016, 109, .	3.3	23
69	Phonon Lifetime Observation in Epitaxial ScN Film with Inelastic X-Ray Scattering Spectroscopy. Physical Review Letters, 2018, 120, 235901.	7.8	23
70	Enhancement of light emission from single quantum dot in photonic crystal nanocavity by using cavity resonant excitation. Applied Physics Letters, 2006, 89, 241124.	3.3	21
71	Ultra-low threshold photonic crystal nanocavity laser. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1800-1803.	2.7	21
72	Nanocavity-based self-frequency conversion laser. Optics Express, 2013, 21, 19778.	3.4	21

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73	Investigation of the Spectral Triplet in Strongly Coupled Quantum Dot-Nanocavity System. Applied Physics Express, 2009, 2, 122301.	2.4	20
74	Three-dimensional photonic crystal simultaneously integrating a nanocavity laser and waveguides. Optica, 2019, 6, 296.	9.3	20
75	Observation of micromechanically controlled tuning of photonic crystal line-defect waveguide. Applied Physics Letters, 2006, 88, 011104.	3.3	19
76	Zero-cell photonic crystal nanocavity laser with quantum dot gain. Applied Physics Letters, 2010, 97, .	3.3	19
77	Synthetic dimension band structures on a Si CMOS photonic platform. Science Advances, 2022, 8, eabk0468.	10.3	19
78	Photorefractive multiple quantum wells at 1064nm. Optics Letters, 2001, 26, 22.	3.3	17
79	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
80	Design of Si/SiO ₂ micropillar cavities for Purcell-enhanced single photon emission at 155nm from InAs/InP quantum dots. Optics Letters, 2013, 38, 3241.	3.3	16
81	Unidirectional output from a quantum-dot single-photon source hybrid integrated on silicon. Optics Express, 2021, 29, 37117.	3.4	16
82	Topologically Protected Single-Photon Sources with Topological Slow Light Photonic Crystal Waveguides. Laser and Photonics Reviews, 2022, 16, .	8.7	16
83	Enhanced photon emission and absorption of single quantum dot in resonance with two modes in photonic crystal nanocavity. Applied Physics Letters, 2008, 93, 183114.	3.3	15
84	Method for generating a photonic NOON state with quantum dots in coupled nanocavities. Physical Review A, 2017, 96, .	2.5	15
85	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
86	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
87	Localized excitation of InGaAs quantum dots by utilizing a photonic crystal nanocavity. Applied Physics Letters, 2006, 88, 141108.	3.3	14
88	Design of high-Q photonic crystal microcavities with a graded square lattice for application to quantum cascade lasers. Optics Express, 2008, 16, 21321.	3.4	14
89	Large Vacuum Rabi Splitting in Single Self-Assembled Quantum Dot-Nanocavity System. Applied Physics Express, 0, 1, 072102.	2.4	14
90	Photonic band-edge micro lasers with quantum dot gain. Optics Express, 2009, 17, 640.	3.4	14

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91	Spin dynamics of excited trion states in a single InAs quantum dot. <i>Physical Review B</i> , 2010, 81, .	3.2	14
92	Localized Guided-Mode and Cavity-Mode Double Resonance in Photonic Crystal Nanocavities. <i>Physical Review Applied</i> , 2015, 3, .	3.8	14
93	Tensile strain engineering of germanium micro-disks on free-standing SiO ₂ beams. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 04EH02.	1.5	14
94	Resonant photorefractive effect in InGaAs/GaAs multiple quantum wells. <i>Optics Letters</i> , 1999, 24, 321.	3.3	13
95	Photorefractive InGaAs/GaAs multiple quantum wells in the Franz-Keldysh geometry. <i>Journal of Applied Physics</i> , 2001, 89, 5889-5896.	2.5	13
96	Long-wavelength luminescence from GaSb quantum dots grown on GaAs substrates. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 21, 275-278.	2.7	13
97	InAsSb Quantum Dots Grown on GaAs Substrates by Molecular Beam Epitaxy. <i>Japanese Journal of Applied Physics</i> , 2005, 44, L45-L47.	1.5	13
98	Development of Electrically Driven Single-Quantum-Dot Device at Optical Fiber Bands. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 3621-3624.	1.5	13
99	1.3-μm InAs/GaAs quantum dot lasers on Si substrates by low-resistivity, Au-free metal-mediated wafer bonding. <i>Journal of Applied Physics</i> , 2012, 112, 033107.	2.5	13
100	Growth of InGaAs/GaAs nanowire-quantum dots on AlGaAs/GaAs distributed Bragg reflectors for laser applications. <i>Journal of Crystal Growth</i> , 2017, 468, 144-148.	1.5	13
101	Optical coupling between atomically thin black phosphorus and a two dimensional photonic crystal nanocavity. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	13
102	Circularly polarized vacuum field in three-dimensional chiral photonic crystals probed by quantum dot emission. <i>Physical Review B</i> , 2017, 96, .	3.2	13
103	Observation of 1.55 μm Light Emission from InAs Quantum Dots in Photonic Crystal Microcavity. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 2579-2583.	1.5	12
104	High guided mode-cavity mode coupling for an efficient extraction of spontaneous emission of a single quantum dot embedded in a photonic crystal nanobeam cavity. <i>Physical Review B</i> , 2012, 86, .	3.2	12
105	Cavity Resonant Excitation of InGaAs Quantum Dots in Photonic Crystal Nanocavities. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 6091-6095.	1.5	11
106	Suppression of indefinite peaks in InAs/GaAs quantum dot spectrum by low temperature capping in the indium-flush method. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 2753-2756.	2.7	11
107	Novel III-V/Si hybrid laser structures with current injection across conductive wafer-bonded heterointerfaces: A proposal and analysis. <i>IEICE Electronics Express</i> , 2011, 8, 596-603.	0.8	11
108	A three-dimensional silicon photonic crystal nanocavity with enhanced emission from embedded germanium islands. <i>New Journal of Physics</i> , 2012, 14, 083035.	2.9	11

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109	Measuring the second-order coherence of a nanolaser by intracavity frequency doubling. <i>Physical Review A</i> , 2014, 89, .	2.5	11
110	Time-resolved vacuum Rabi oscillations in a quantum-dot nanocavity system. <i>Physical Review B</i> , 2018, 97, .	3.2	11
111	Topological Band Gaps Enlarged in Epsilon-Near-Zero Magneto-Optical Photonic Crystals. <i>ACS Photonics</i> , 2022, 9, 1621-1626.	6.6	11
112	Switching operation of lasing wavelength in mid-infrared ridge-waveguide quantum cascade lasers coupled with microcylindrical cavity. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	10
113	High quality-factor Si/SiO ₂ -InP hybrid micropillar cavities with submicrometer diameter for 155- $\hat{1}$ / ₄ m telecommunication band. <i>Optics Express</i> , 2015, 23, 16264.	3.4	10
114	Reflectivity of three-dimensional GaAs photonic band-gap crystals of finite thickness. <i>Physical Review B</i> , 2020, 101, .	3.2	10
115	Chiral modes near exceptional points in symmetry broken H1 photonic crystal cavities. <i>Physical Review Research</i> , 2021, 3, .	3.6	10
116	Enhancement of Valence Band Mixing in Individual InAs/GaAs Quantum Dots by Rapid Thermal Annealing. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 125001.	1.5	9
117	Temperature dependency of the emission properties from positioned In(Ga)As/GaAs quantum dots. <i>AIP Advances</i> , 2014, 4, .	1.3	9
118	Eigenvalue decomposition method for photon statistics of frequency-filtered fields and its application to quantum dot emitters. <i>Physical Review A</i> , 2015, 92, .	2.5	9
119	Demonstration of a three-dimensional photonic crystal nanocavity in a $\hat{1}10\hat{0}$ -layered diamond structure. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	9
120	InAs/GaAs quantum dot infrared photodetectors on $\hat{1}00$ Si (100) substrates. <i>Electronics Letters</i> , 2018, 54, 1395-1397.	1.0	9
121	Enhancement of Cavity-Q in a Quasi-Three-Dimensional Photonic Crystal. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 1990-1994.	1.5	8
122	Simultaneous determination of the index and absorption gratings in multiple quantum well photorefractive devices designed for laser ultrasonic sensor. <i>Optics Communications</i> , 2004, 242, 7-12.	2.1	8
123	Enhancement of photoluminescence from germanium by utilizing air-bridge-type photonic crystal slab. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 2556-2559.	2.7	8
124	Silicon-based three-dimensional photonic crystal nanocavity laser with InAs quantum-dot gain. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	8
125	Design of a three-dimensional photonic crystal nanocavity based on a $\hat{1}10\hat{0}$ -layered diamond structure. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 04EG08.	1.5	8
126	Spin-on doping of germanium-on-insulator wafers for monolithic light sources on silicon. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 052101.	1.5	8

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127	Asymmetric out-of-plane power distribution in a two-dimensional photonic crystal nanocavity. <i>Optics Letters</i> , 2015, 40, 3372.	3.3	8
128	InAs/GaAs quantum dot lasers with GaP strain-compensation layers grown by molecular beam epitaxy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 958-964.	1.8	8
129	Design of bullseye optical cavity toward efficient quantum media conversion using gate-defined quantum dot. <i>Japanese Journal of Applied Physics</i> , 2021, 60, 102003.	1.5	8
130	Scheme for media conversion between electronic spin and photonic orbital angular momentum based on photonic nanocavity. <i>Optics Express</i> , 2018, 26, 21219.	3.4	8
131	A large-scale single-mode array laser based on a topological edge mode. <i>Nanophotonics</i> , 2022, 11, 2169-2181.	6.0	8
132	Picosecond dynamics of spin-related optical nonlinearities in In _x Ga _{1-x} As multiple quantum wells at 1064 nm. <i>Applied Physics Letters</i> , 2004, 84, 1043-1045.	3.3	7
133	Spin and carrier relaxation in resonantly excited InGaAs MQWs. <i>Semiconductor Science and Technology</i> , 2004, 19, S339-S341.	2.0	7
134	Resonant photoluminescence from Ge self-assembled dots in optical microcavities. <i>Journal of Crystal Growth</i> , 2009, 311, 883-887.	1.5	7
135	Fabrication of electrically pumped InAs/GaAs quantum dot lasers on Si substrates by Au-mediated wafer bonding. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 319-321.	0.8	7
136	Effects of growth temperature of partial GaAs cap on InAs quantum dots in In-flush process for single dot spectroscopy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 248-250.	0.8	7
137	Self-frequency summing in quantum dot photonic crystal nanocavity lasers. <i>Applied Physics Letters</i> , 2013, 103, 243115.	3.3	7
138	Active zinc-blende III-nitride photonic structures on silicon. <i>Applied Physics Express</i> , 2016, 9, 012002.	2.4	7
139	Nanowire quantum-dot lasers on flexible membranes. <i>Applied Physics Express</i> , 2018, 11, 065002.	2.4	7
140	Emission at 1.6 μm from InAs Quantum Dots in Metamorphic InGaAs Matrix. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900392.	1.5	7
141	Optical Characteristics of Two-Dimensional Photonic Crystal Slab Nanocavities with Self-Assembled InAs Quantum Dots for 1.3 μm Light Emission. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 2391-2394.	1.5	6
142	Charged and neutral biexciton exciton cascade in a single quantum dot within a photonic bandgap. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 2563-2566.	2.7	6
143	Influence of p-doping on the temperature dependence of InAs/GaAs quantum dot excited state radiative lifetime. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	6
144	Growth of high-quality InAs quantum dots embedded in GaAs nanowire structures on Si substrates. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013, 10, 1496-1499.	0.8	6

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145	Electro-Mechanical Q Factor Control of Photonic Crystal Nanobeam Cavity. Japanese Journal of Applied Physics, 2013, 52, 04CG01.	1.5	6
146	Semiconductor Three-Dimensional Photonic Crystals with Novel Layer-by-Layer Structures. Photonics, 2016, 3, 34.	2.0	6
147	High-Q nanocavities in semiconductor-based three-dimensional photonic crystals. Electronics Letters, 2018, 54, 305-307.	1.0	6
148	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
149	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
150	InGaAs/GaAs photorefractive multiple quantum well device in quantum confined Stark geometry. Applied Physics B: Lasers and Optics, 2001, 72, 685-689.	2.2	5
151	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
152	Enhancement of Light Emission from Silicon by Utilizing Photonic Nanostructures. IEICE Transactions on Electronics, 2012, E95-C, 206-212.	0.6	5
153	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
154	High-Q AlN ladder 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	Impact of the dark path on quantum dot single photon emitters in small cavities. Physical Review Letters, 2014, 113, 143604.	7.8	5
156	Crystallinity improvements of Ge waveguides fabricated by epitaxial lateral overgrowth. Japanese Journal of Applied Physics, 2016, 55, 04EH06.	1.5	5
157	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
158	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
159	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
160	Design of a high-Q H ₀ photonic crystal nanocavity for cavity QED. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 340-342.	0.8	4
161	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
162	Design of efficient surface plasmon polariton modulators using graphene. Japanese Journal of Applied Physics, 2014, 53, 08MG01.	1.5	4

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163	Numerical analysis of DFB lasing action in photonic crystals with quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 814-819.	2.7	3
164	Development of high-yield fabrication technique for MEMS-PhC devices. IEICE Electronics Express, 2006, 3, 39-43.	0.8	3
165	Advances in photonic crystals with MEMS and with semiconductor quantum dots. Laser Physics, 2006, 16, 223-231.	1.2	3
166	Observation of unique photon statistics of single artificial atom laser. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 2489-2492.	2.7	3
167	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
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